

# COMUNE DI FIRENZE

**Intervento di manutenzione straordinaria per la riqualificazione strutturale  
di un edificio di 48 alloggi ERP in Via Accademia del Cimento 14/1-3**



**Finanziamenti:**

Finanziamento di programma POR 2018 – Delibera G.R.T. n. 1528 del 09.12.2019 con €995.655,81 (€ 870.599,22 Legge n. 560/93 art. 1/14° comma + € 125.056,59 Legge R.T. n. 96/96 art. 23) + SUPERBONUS (Art. 119 del decreto-legge n. 34/2020 - decreto Rilancio)

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TAV. N°	TAVOLE DI PROGETTO STRUTTURALE:	SCALA:
DF-ST  00.6	TABULATI DI CALCOLO ANTE BLOCCO 2	-
		DATA:  Giugno 2022
FI36-DF-ST-00.6-01		

ADDETTO ALLA VERIFICA

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## Sommario

Introduzione.....	7
Sistemi di riferimento .....	7
Rotazioni e momenti .....	7
Normativa di riferimento .....	7
Unità di misura .....	8
Geometria.....	8
Elenco vincoli nodi .....	8
Elenco sezioni aste .....	8
Elenco vincoli aste .....	9
Elenco tipi elementi bidimensionali .....	9
Elenco tipi solai .....	10
Elenco solai .....	10
Elenco tipi tamponature .....	12
Carichi.....	12
Condizioni di carico elementari .....	13
Elenco carichi asteCondizione di carico n. 1: Permanenti strutturali Elenco peso proprio aste .....	13
Condizione di carico n. 1: Permanenti strutturali Carichi distribuiti .....	14
Condizione di carico n. 2: Permanenti non strutturali Carichi distribuiti .....	31
Condizione di carico n. 3: Variabili Civile Abitazione Carichi distribuiti .....	54
Condizione di carico n. 4: Variabili neve Carichi distribuiti .....	66
Condizione di carico n. 5: Scale perm non strutturale Carichi distribuiti .....	68
Condizione di carico n. 6: scale variabile Carichi distribuiti .....	68
Elenco carichi elementi bidimensionaliElenco peso proprio elementi bidimensionali .....	69
Condizione di carico n. 2: Permanenti non strutturali Carichi uniformi .....	69
Condizione di carico n. 3: Variabili Civile Abitazione Carichi uniformi .....	69
Condizione di carico n. 5: Scale perm non strutturale Carichi uniformi .....	69
Condizione di carico n. 6: scale variabile Carichi uniformi .....	70
Risultati del calcolo.....	71
Parametri di calcolo .....	71
Reazioni vincolari .....	72
Verifiche e armature travi.....	76
Travata n. 10024 .....	77
Travata n. 10035 .....	77
Travata n. 11021 .....	77
Travata n. 11022 .....	78
Travata n. 11023 .....	78
Travata n. 11024 .....	79
Travata n. 11027 .....	79
Travata n. 11028 .....	80
Travata n. 11029 .....	80
Travata n. 11032 .....	81
Travata n. 11033 .....	81
Travata n. 11035 .....	81
Travata n. 11036 .....	82
Travata n. 11040 .....	82
Travata n. 11041 .....	83
Travata n. 11042 .....	83
Travata n. 11070 .....	84
Travata n. 11084 .....	84
Travata n. 11088 .....	84
Travata n. 11130 .....	85
Travata n. 11131 .....	86
Travata n. 11173 .....	86
Travata n. 11174 .....	87
Travata n. 11216 .....	87
Travata n. 11217 .....	88
Travata n. 11259 .....	88
Travata n. 11302 .....	89
Travata n. 11345 .....	90
Travata n. 12024 .....	90
Travata n. 12035 .....	91
Travata n. 13021 .....	91
Travata n. 13022 .....	91
Travata n. 13023 .....	92
Travata n. 13024 .....	92
Travata n. 13027 .....	93
Travata n. 13028 .....	93
Travata n. 13029 .....	94
Travata n. 13032 .....	94
Travata n. 13033 .....	94
Travata n. 13035 .....	95
Travata n. 13036 .....	95
Travata n. 13040 .....	96
Travata n. 13041 .....	96
Travata n. 13042 .....	97
Travata n. 13070 .....	97
Travata n. 13084 .....	98
Travata n. 13088 .....	98
Travata n. 13130 .....	99
Travata n. 13131 .....	99



## Relazione di calcolo

Travata n. 13173 .....	100
Travata n. 13174 .....	100
Travata n. 13216 .....	101
Travata n. 13217 .....	101
Travata n. 13259 .....	102
Travata n. 13302 .....	103
Travata n. 13345 .....	103
Travata n. 14024 .....	104
Travata n. 14035 .....	104
Travata n. 15021 .....	105
Travata n. 15022 .....	105
Travata n. 15023 .....	105
Travata n. 15024 .....	106
Travata n. 15027 .....	106
Travata n. 15028 .....	107
Travata n. 15029 .....	107
Travata n. 15032 .....	108
Travata n. 15033 .....	108
Travata n. 15035 .....	108
Travata n. 15036 .....	109
Travata n. 15040 .....	109
Travata n. 15041 .....	110
Travata n. 15042 .....	110
Travata n. 15070 .....	111
Travata n. 15084 .....	111
Travata n. 15088 .....	112
Travata n. 15130 .....	112
Travata n. 15131 .....	113
Travata n. 15173 .....	113
Travata n. 15174 .....	114
Travata n. 15216 .....	114
Travata n. 15217 .....	115
Travata n. 15259 .....	115
Travata n. 15302 .....	116
Travata n. 15345 .....	117
Travata n. 16024 .....	117
Travata n. 16035 .....	118
Travata n. 17021 .....	118
Travata n. 17022 .....	119
Travata n. 17023 .....	119
Travata n. 17024 .....	119
Travata n. 17027 .....	120
Travata n. 17028 .....	120
Travata n. 17029 .....	121
Travata n. 17032 .....	121
Travata n. 17033 .....	122
Travata n. 17035 .....	122
Travata n. 17036 .....	122
Travata n. 17040 .....	123
Travata n. 17041 .....	123
Travata n. 17042 .....	124
Travata n. 17070 .....	124
Travata n. 17084 .....	125
Travata n. 17088 .....	125
Travata n. 17130 .....	126
Travata n. 17131 .....	126
Travata n. 17173 .....	127
Travata n. 17174 .....	127
Travata n. 17216 .....	128
Travata n. 17217 .....	128
Travata n. 17259 .....	129
Travata n. 17302 .....	130
Travata n. 17345 .....	130
Travata n. 18024 .....	131
Travata n. 18035 .....	131
Travata n. 18052 .....	132
Travata n. 19021 .....	132
Travata n. 19022 .....	133
Travata n. 19023 .....	133
Travata n. 19024 .....	133
Travata n. 19027 .....	134
Travata n. 19028 .....	134
Travata n. 19029 .....	135
Travata n. 19032 .....	135
Travata n. 19033 .....	136
Travata n. 19035 .....	136
Travata n. 19036 .....	136
Travata n. 19040 .....	137
Travata n. 19041 .....	137
Travata n. 19042 .....	138
Travata n. 19070 .....	138
Travata n. 19084 .....	139



## Relazione di calcolo

Travata n. 19088 .....	139
Travata n. 19130 .....	140
Travata n. 19131 .....	140
Travata n. 19173 .....	141
Travata n. 19174 .....	141
Travata n. 19216 .....	142
Travata n. 19217 .....	142
Travata n. 19259 .....	143
Travata n. 19302 .....	144
Travata n. 19345 .....	144
Travate n. 3020 5020 7020 9020 11020 13020 15020 17020 19020 .....	145
Travata n. 3021 .....	146
Travata n. 3022 .....	146
Travata n. 3023 .....	147
Travata n. 3024 .....	147
Travata n. 3027 .....	148
Travata n. 3028 .....	148
Travata n. 3029 .....	149
Travate n. 3030 5030 7030 9030 11030 13030 15030 17030 19030 .....	149
Travata n. 3032 .....	150
Travata n. 3033 .....	150
Travata n. 3035 .....	151
Travata n. 3036 .....	151
Travata n. 3040 .....	152
Travata n. 3041 .....	152
Travata n. 3042 .....	153
Travate n. 3043 5043 7043 9043 11043 13043 15043 17043 19043 .....	153
Travata n. 3088 .....	154
Travata n. 3130 .....	155
Travata n. 3131 .....	155
Travata n. 3173 .....	156
Travata n. 3174 .....	157
Travata n. 3216 .....	157
Travata n. 3217 .....	158
Travata n. 3259 .....	158
Travata n. 3302 .....	159
Travata n. 3345 .....	159
Travata n. 5021 .....	160
Travata n. 5022 .....	160
Travata n. 5023 .....	161
Travata n. 5024 .....	161
Travata n. 5027 .....	162
Travata n. 5028 .....	162
Travata n. 5029 .....	163
Travata n. 5032 .....	163
Travata n. 5033 .....	163
Travata n. 5035 .....	164
Travata n. 5036 .....	164
Travata n. 5040 .....	165
Travata n. 5041 .....	165
Travata n. 5042 .....	166
Travata n. 5088 .....	166
Travata n. 5130 .....	167
Travata n. 5131 .....	167
Travata n. 5173 .....	168
Travata n. 5174 .....	168
Travata n. 5216 .....	169
Travata n. 5217 .....	169
Travata n. 5259 .....	170
Travata n. 5302 .....	171
Travata n. 5345 .....	171
Travata n. 6024 .....	172
Travata n. 6035 .....	172
Travata n. 7021 .....	173
Travata n. 7022 .....	173
Travata n. 7023 .....	173
Travata n. 7024 .....	174
Travata n. 7027 .....	174
Travata n. 7028 .....	175
Travata n. 7029 .....	175
Travata n. 7032 .....	176
Travata n. 7033 .....	176
Travata n. 7035 .....	177
Travata n. 7036 .....	177
Travata n. 7040 .....	177
Travata n. 7041 .....	178
Travata n. 7042 .....	178
Travata n. 7070 .....	179
Travata n. 7084 .....	179
Travata n. 7088 .....	180
Travata n. 7130 .....	180
Travata n. 7131 .....	181



## Relazione di calcolo

Travata n. 7173 .....	181
Travata n. 7174 .....	182
Travata n. 7216 .....	182
Travata n. 7217 .....	183
Travata n. 7259 .....	184
Travata n. 7302 .....	184
Travata n. 7345 .....	185
Travata n. 8024 .....	185
Travata n. 8035 .....	186
Travata n. 9021 .....	186
Travata n. 9022 .....	187
Travata n. 9023 .....	187
Travata n. 9024 .....	187
Travata n. 9027 .....	188
Travata n. 9028 .....	188
Travata n. 9029 .....	189
Travata n. 9032 .....	189
Travata n. 9033 .....	190
Travata n. 9035 .....	190
Travata n. 9036 .....	191
Travata n. 9040 .....	191
Travata n. 9041 .....	191
Travata n. 9042 .....	192
Travata n. 9070 .....	192
Travata n. 9084 .....	193
Travata n. 9088 .....	193
Travata n. 9130 .....	194
Travata n. 9131 .....	194
Travata n. 9173 .....	195
Travata n. 9174 .....	195
Travata n. 9216 .....	196
Travata n. 9217 .....	197
Travata n. 9259 .....	197
Travata n. 9302 .....	198
Travata n. 9345 .....	198
Travata n. 2024 .....	199
Travata n. 2035 .....	199
Travate n. 3003 5003 7003 9003 11003 13003 15003 17003 19003 .....	200
Travate n. 3007 5007 7007 9007 11007 13007 15007 17007 19007 .....	204
Travata n. 3009 .....	207
Travata n. 3070 .....	210
Travata n. 3084 .....	210
Travata n. 4024 .....	211
Travata n. 4035 .....	211
Travate n. 5009 7009 9009 11009 13009 15009 17009 19009 .....	212
Travata n. 5070 .....	216
Travata n. 5084 .....	216
Verifiche e armature pilastri .....	217
Pilastrata n. 7 .....	217
Pilastrata n. 8 .....	219
Pilastrata n. 9 .....	221
Pilastrata n. 10 .....	223
Pilastrata n. 11 .....	225
Pilastrata n. 12 .....	227
Pilastrata n. 13 .....	228
Pilastrata n. 14 .....	230
Pilastrata n. 15 .....	232
Pilastrata n. 16 .....	234
Pilastrata n. 17 .....	235
Pilastrata n. 18 .....	237
Pilastrata n. 19 .....	239
Pilastrata n. 20 .....	241
Pilastrata n. 25 .....	243
Pilastrata n. 26 .....	244
Pilastrata n. 27 .....	246
Pilastrata n. 28 .....	248
Pilastrata n. 29 .....	249
Pilastrata n. 30 .....	251
Pilastrata n. 31 .....	253
Pilastrata n. 32 .....	255
Pilastrata n. 33 .....	256
Pilastrata n. 34 .....	258
Pilastrata n. 41 .....	260
Pilastrata n. 42 .....	262
Pilastrata n. 43 .....	263
Pilastrata n. 44 .....	265
Pilastrata n. 45 .....	267
Pilastrata n. 46 .....	270
Pilastrata n. 47 .....	272
Pilastrata n. 48 .....	273
Pilastrata n. 49 .....	275
Pilastrata n. 50 .....	276



## Relazione di calcolo

Pilastrata n. 51 .....	278
Pilastrata n. 52 .....	281
Pilastrata n. 53 .....	283
Pilastrata n. 54 .....	285
Verifiche e armature nuclei .....	287
Numero del nucleo n. 304 .....	287
Numero del nucleo n. 305 .....	288
Numero del nucleo n. 307 .....	288
Numero del nucleo n. 309 .....	289
Numero del nucleo n. 310 .....	289
Numero del nucleo n. 311 .....	290
Numero del nucleo n. 312 .....	290
Numero del nucleo n. 313 .....	291
Numero del nucleo n. 314 .....	291
Numero del nucleo n. 315 .....	292
Numero del nucleo n. 316 .....	292
Numero del nucleo n. 317 .....	293
Numero del nucleo n. 319 .....	293
Numero del nucleo n. 320 .....	293
Numero del nucleo n. 388 .....	294
Numero del nucleo n. 396 .....	295
Numero del nucleo n. 398 .....	295
Numero del nucleo n. 399 .....	295
Numero del nucleo n. 400 .....	296
Numero del nucleo n. 401 .....	296
Numero del nucleo n. 404 .....	297
Numero del nucleo n. 405 .....	297
Numero del nucleo n. 488 .....	298
Numero del nucleo n. 496 .....	298
Numero del nucleo n. 498 .....	299
Numero del nucleo n. 499 .....	299
Numero del nucleo n. 500 .....	299
Numero del nucleo n. 501 .....	300
Numero del nucleo n. 504 .....	300
Numero del nucleo n. 505 .....	301
Numero del nucleo n. 588 .....	301
Numero del nucleo n. 596 .....	302
Numero del nucleo n. 598 .....	302
Numero del nucleo n. 599 .....	303
Numero del nucleo n. 600 .....	303
Numero del nucleo n. 601 .....	303
Numero del nucleo n. 604 .....	304
Numero del nucleo n. 605 .....	304
Numero del nucleo n. 688 .....	305
Numero del nucleo n. 696 .....	305
Numero del nucleo n. 698 .....	306
Numero del nucleo n. 699 .....	306
Numero del nucleo n. 700 .....	307
Numero del nucleo n. 701 .....	307
Numero del nucleo n. 704 .....	308
Numero del nucleo n. 705 .....	308
Numero del nucleo n. 788 .....	308
Numero del nucleo n. 796 .....	309
Numero del nucleo n. 798 .....	309
Numero del nucleo n. 799 .....	310
Numero del nucleo n. 800 .....	310
Numero del nucleo n. 801 .....	311
Numero del nucleo n. 804 .....	311
Numero del nucleo n. 805 .....	312
Numero del nucleo n. 888 .....	312
Numero del nucleo n. 896 .....	313
Numero del nucleo n. 898 .....	313
Numero del nucleo n. 899 .....	313
Numero del nucleo n. 900 .....	314
Numero del nucleo n. 901 .....	314
Numero del nucleo n. 904 .....	315
Numero del nucleo n. 905 .....	315
Numero del nucleo n. 988 .....	316
Numero del nucleo n. 996 .....	316
Numero del nucleo n. 998 .....	317
Numero del nucleo n. 999 .....	317
Numero del nucleo n. 1000 .....	317
Numero del nucleo n. 1001 .....	318
Numero del nucleo n. 1004 .....	318
Numero del nucleo n. 1005 .....	319
Numero del nucleo n. 1088 .....	319
Numero del nucleo n. 1096 .....	320
Numero del nucleo n. 1098 .....	320
Numero del nucleo n. 1099 .....	321
Numero del nucleo n. 1100 .....	321
Numero del nucleo n. 1101 .....	322
Numero del nucleo n. 1104 .....	322



## Relazione di calcolo

Numero del nucleo n. 1105 .....	322
Numero del nucleo n. 1188 .....	323
Numero del nucleo n. 1196 .....	323
Numero del nucleo n. 1198 .....	324
Numero del nucleo n. 1199 .....	324
Numero del nucleo n. 1200 .....	325
Numero del nucleo n. 1201 .....	325
Numero del nucleo n. 1204 .....	326
Numero del nucleo n. 1205 .....	326
Numero del nucleo n. 1288 .....	326
Numero del nucleo n. 1296 .....	327
Numero del nucleo n. 1298 .....	327
Numero del nucleo n. 1299 .....	328
Numero del nucleo n. 1300 .....	328
Numero del nucleo n. 1301 .....	329
Numero del nucleo n. 1304 .....	329
Numero del nucleo n. 1305 .....	330
Numero del nucleo n. 1388 .....	330
Numero del nucleo n. 1396 .....	331
Numero del nucleo n. 1398 .....	331
Numero del nucleo n. 1399 .....	331
Numero del nucleo n. 1400 .....	332
Numero del nucleo n. 1401 .....	332
Numero del nucleo n. 1404 .....	333
Numero del nucleo n. 1405 .....	333
Numero del nucleo n. 1488 .....	334
Numero del nucleo n. 1496 .....	334
Numero del nucleo n. 1498 .....	335
Numero del nucleo n. 1499 .....	335
Numero del nucleo n. 1500 .....	336
Numero del nucleo n. 1501 .....	336
Numero del nucleo n. 1504 .....	336
Numero del nucleo n. 1505 .....	337
Numero del nucleo n. 1588 .....	337
Numero del nucleo n. 1596 .....	338
Numero del nucleo n. 1598 .....	338
Numero del nucleo n. 1599 .....	339
Numero del nucleo n. 1600 .....	339
Numero del nucleo n. 1601 .....	340
Numero del nucleo n. 1604 .....	340
Numero del nucleo n. 1605 .....	340
Numero del nucleo n. 1688 .....	341
Numero del nucleo n. 1696 .....	341
Numero del nucleo n. 1698 .....	342
Numero del nucleo n. 1699 .....	342
Numero del nucleo n. 1700 .....	343
Numero del nucleo n. 1701 .....	343
Numero del nucleo n. 1704 .....	344
Numero del nucleo n. 1705 .....	344
Numero del nucleo n. 1788 .....	345
Numero del nucleo n. 1796 .....	345
Numero del nucleo n. 1798 .....	345
Numero del nucleo n. 1799 .....	346
Numero del nucleo n. 1800 .....	347
Numero del nucleo n. 1801 .....	347
Numero del nucleo n. 1804 .....	348
Numero del nucleo n. 1805 .....	348
Numero del nucleo n. 1888 .....	348
Numero del nucleo n. 1896 .....	349
Numero del nucleo n. 1898 .....	349
Numero del nucleo n. 1899 .....	350
Numero del nucleo n. 1900 .....	350
Numero del nucleo n. 1901 .....	351
Numero del nucleo n. 1904 .....	351
Numero del nucleo n. 1905 .....	352
Numero del nucleo n. 1988 .....	352
Numero del nucleo n. 1996 .....	353
Numero del nucleo n. 1998 .....	353
Numero del nucleo n. 1999 .....	354
Numero del nucleo n. 2000 .....	354
Numero del nucleo n. 2001 .....	355
Numero del nucleo n. 2004 .....	355
Numero del nucleo n. 2315 .....	356
Numero del nucleo n. 30000 .....	356
Numero del nucleo n. 31000 .....	356
Numero del nucleo n. 40000 .....	357
Numero del nucleo n. 41000 .....	357
Verifiche e armature solette/platee .....	358
Armatura platea a quota -3.60 .....	358
Sintesi .....	359



## Introduzione

### Sistemi di riferimento

Le coordinate, i carichi concentrati, i cedimenti, le reazioni vincolari e gli spostamenti dei NODI sono riferiti ad una terna destra cartesiana globale con l'asse Z verticale rivolto verso l'alto. I carichi in coordinate locali e le sollecitazioni delle ASTE sono riferite ad una terna destra cartesiana locale così definita:

- origine nel nodo iniziale dell'asta;
- asse X coincidente con l'asse dell'asta e con verso dal nodo iniziale al nodo finale;
- immaginando la trave a sezione rettangolare l'asse Y è parallelo alla base e l'asse Z è parallelo all'altezza. La rotazione dell'asta comporta quindi una rotazione di tutta la terna locale.

Si può immaginare la terna locale di un'asta comunque disposta nello spazio come derivante da quella globale dopo una serie di trasformazioni:

- una rotazione intorno all'asse Z che porti l'asse X a coincidere con la proiezione dell'asse dell'asta sul piano orizzontale;
- una traslazione lungo il nuovo asse X così definito in modo da portare l'origine a coincidere con la proiezione del nodo iniziale dell'asta sul piano orizzontale;
- una traslazione lungo l'asse Z che porti l'origine a coincidere con il nodo iniziale dell'asta;
- una rotazione intorno all'asse Y così definito che porti l'asse X a coincidere con l'asse dell'asta;
- una rotazione intorno all'asse X così definito pari alla rotazione dell'asta.

In pratica le travi prive di rotazione avranno sempre l'asse Z rivolto verso l'alto e l'asse Y nel piano del solaio, mentre i pilastri privi di rotazione avranno l'asse Y parallelo all'asse Y globale e l'asse Z parallelo ma controverso all'asse X globale. Da notare quindi che per i pilastri la "base" è il lato parallelo a Y.

Le sollecitazioni ed i carichi in coordinate locali negli ELEMENTI BIDIMENSIONALI e nei MURI sono riferiti ad una terna destra cartesiana locale così definita:

- origine nel primo nodo dell'elemento;
- asse X coincidente con la congiungente il primo ed il secondo nodo dell'elemento;
- asse Y definito come prodotto vettoriale fra il versore dell'asse X e il versore della congiungente il primo e il quarto nodo. Asse Z a formare con gli altri due una terna destrorsa.

Praticamente un elemento verticale con l'asse X locale coincidente con l'asse X globale ha anche gli altri assi locali coincidenti con quelli globali.

### Rotazioni e momenti

Seguendo il principio adottato per tutti i carichi che sono positivi se CONTROVERSI agli assi, anche i momenti concentrati e le rotazioni impresse in coordinate globali risultano positivi se CONTROVERSI al segno positivo delle rotazioni. Il segno positivo dei momenti e delle rotazioni è quello orario per l'osservatore posto nell'origine: X ruota su Y, Y ruota su Z, Z ruota su X. In pratica è sufficiente adottare la regola della mano destra: col pollice rivolto nella direzione dell'asse, la rotazione che porta a chiudere il palmo della mano corrisponde al segno positivo.

### Normativa di riferimento

La normativa di riferimento è la seguente:

- Legge n. 64 del 2/2/1974 - Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.
- D.M. del 24/1/1986 - Norme tecniche relative alle costruzioni sismiche.
- Legge n. 1086 del 5/11/1971 - Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso ed a struttura metallica.
- D.M. del 14/2/1992 - Norme tecniche per l'esecuzione delle opere in c.a. normale e precompresso e per le strutture metalliche.
- D.M. del 9/1/1996 - Norme tecniche per l'esecuzione delle opere in c.a. normale e precompresso e per le strutture metalliche.
- D.M. del 16/1/1996 - Norme tecniche per le costruzioni in zone sismiche.
- Circolare n. 21745 del 30/7/1981 - Legge n. 219 del 14/5/1981 - Art. 10 - Istruzioni relative al rafforzamento degli edifici in muratura danneggiati dal sisma.
- Regione Autonoma Friuli Venezia Giulia - Legge Regionale n. 30 del 20/6/1977 - Documentazione tecnica per la progettazione e direzione delle opere di riparazione degli edifici - Documento Tecnico n. 2 - Raccomandazioni per la riparazione strutturale degli edifici in muratura.
- D.M. del 20/11/1987 - Norme Tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento.
- Norme Tecniche C.N.R. n. 10011-85 del 18/4/1985 - Costruzioni di acciaio - Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione.
- Norme Tecniche C.N.R. n. 10025-84 del 14/12/1984 - Istruzioni per il progetto, l'esecuzione ed il controllo delle strutture prefabbricate in conglomerato cementizio e per le strutture costruite con sistemi industrializzati di acciaio



## Relazione di calcolo

- Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione.
- Circolare n. 65 del 10/4/1997 - Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. del 16/1/1996.
- Eurocodice 5 - Progettazione delle strutture di legno.
- DIN 1052 - Metodi di verifica per il legno.
- D.M. del 17/1/2018 - Norme tecniche per le costruzioni.
- Circolare n. 7 del 21/1/2019 - Istruzioni per l'applicazione dell'«Aggiornamento delle "Norme tecniche per le costruzioni"» di cui al decreto ministeriale 17 gennaio 2018.
- Documento Tecnico CNR-DT 200 R1/2012 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati.
- Eurocodice 3 - Progettazione delle strutture in acciaio.

## Unità di misura

Le unità di misura adottate sono le seguenti:

- lunghezze : m
- forze : daN
- masse : kg
- temperature : gradi centigradi
- angoli : gradi sessadecimali o radianti

## Geometria

### Elenco vincoli nodi

#### Simbologia

Comm. = Commento  
Kt = Coeff. di sottofondo su suolo elastico alla Winkler  
Ly = Lunghezza (dir. Y locale)  
Lz = Larghezza (dir. Z locale)  
RL = Rotazione libera  
Rx = Rotazione intorno all'asse X (L=libera, B=bloccata, E=elastica)  
Ry = Rotazione intorno all'asse Y (L=libera, B=bloccata, E=elastica)  
Rz = Rotazione intorno all'asse Z (L=libera, B=bloccata, E=elastica)  
Sx = Spostamento in dir. X (L=libero, B=bloccato, E=elastico)  
Sy = Spostamento in dir. Y (L=libero, B=bloccato, E=elastico)  
Sz = Spostamento in dir. Z (L=libero, B=bloccato, E=elastico)  
Vn = Numero del vincolo nodo

Vn	Comm.	Sx	Sy	Sz	Rx	Ry	Rz	RL	Ly	Lz	Kt
									<m>	<m>	<daN/cmc>
1	Libero	L	L	L	L	L	L				
3	El. sew 110001	B	B	L	L	L	B				

Vn	Comm.	Sx	Sy	Sz	Rx	Ry	Rz	RL	Ly	Lz	Kt
									<m>	<m>	<daN/cmc>
2	Incastro	B	B	B	B	B	B				

### Elenco sezioni aste

#### Simbologia

B = Base  
C = Numero del criterio di progetto  
Comm. = Commento  
Crit. C.F. = Criterio di progetto collegamento finale  
Crit. C.I. = Criterio di progetto collegamento iniziale  
H = Altezza  
Ma = Numero del materiale  
Mem. = Membratura  
T = Trave  
P = Pilastro  
Sez. = Numero della sezione  
Tipo = Tipologia  
L = Sezione a L  
Ldx = L destra  
R = Rettangolare  
Rc = Rettangolare cava  
T = Sezione a T  
Ver. = Verifica prevista  
C = Cemento armato  
A = Acciaio  
b = Base inferiore  
h = Altezza parte inf.

Sez.	Comm.	Tipo	Mem.	Ver.	B	b	H	h	Ma	C	Crit. C.I.	Crit. C.F.
					<cm>	<cm>	<cm>	<cm>				



## Relazione di calcolo

1	Pil 40x50	R	P	C	40.00		50.00		1	1		
2	Pil 40x68	R	P	C	40.00		68.00		1	1		
7	Pil 30x35	R	P	C	30.00		35.00		1	1		
9	Pil 25x35	R	P	C	25.00		35.00		1	1		
10	Pil 40x35	R	P	C	40.00		35.00		1	1		
16	Tr 16x66	R	T	C	16.00		65.00		1	3		
18	Tr 18x24	R	T	C	18.00		24.00		1	3		
19	cord 20x18	R	T	C	20.00		18.00		1	3		
21	Pil 30x68	R	P	C	30.00		68.00		1	1		
22	Pil 25x68	R	P	C	25.00		68.00		1	1		
23	Pil 30x50	R	P	C	30.00		50.00		1	1		
24	Pil 25x50	R	P	C	25.00		50.00		1	1		
25	Tr 70x24	R	T	C	70.00		24.00		1	1		
26	Tr 30x24	R	T	C	30.00		24.00		1	1		
27	Tr 70x20	R	T	C	70.00		20.00		1	1		
28	Tr 100x24	R	T	C	100.00		24.00		1	1		
30	Tr 30x50	R	T	C	30.00		50.00		1	1		
31	Tr 50x24	R	T	C	50.00		24.00		1	1		
32	Tr 14x65	R	T	C	14.00		65.00		1	3		
37	Trave T 24x14x41x100	T	T	C	100.00	14.00	24.00	41.00	1	1		
38	TrvF T1	T	T	C	50.00	95.00	60.00	40.00	1	1		
39	TrvF T1*	T	T	C	50.00	105.00	60.00	40.00	1	1		
40	TrvF T56789	T	T	C	50.00	180.00	60.00	40.00	1	1		
41	TrvF T9*7*	T	T	C	50.00	180.00	60.00	40.00	1	1		
42	TrvF T233*	T	T	C	68.00	210.00	60.00	40.00	1	1		
43	TrvF A-b	T	T	C	40.00	70.00	60.00	40.00	1	1		
44	Trv 60x35 T10	R	T	C	68.00		35.00		1	1		
45	Trv 20x20 T12	R	T	C	20.00		20.00		1	1		
46	Trv 30x40 CP	R	T	C	30.00		40.00		1	2		
47	Trv 30x55 CPR	R	T	C	30.00		55.00		1	2		
48	TrvF muretti	T	T	C	20.00	40.00	60.00	30.00	1	1		
49	Pil 25x50	R	P	C	25.00		50.00		1	1		
50	Pil 25x68	R	P	C	25.00		68.00		1	1		

## Elenco vincoli aste

### Simbologia

Comm. = Commento  
Kt =Coeff. di sottofondo su suolo elastico alla Winkler  
Mxf =Momento intorno all'asse X locale nodo finale (0=sbloccato, 1=bloccato)  
Mxi =Momento intorno all'asse X locale nodo iniziale (0=sbloccato, 1=bloccato)  
Myf =Momento intorno all'asse Y locale nodo finale (0=sbloccato, 1=bloccato)  
Myi =Momento intorno all'asse Y locale nodo iniziale (0=sbloccato, 1=bloccato)  
Mzf =Momento intorno all'asse Z locale nodo finale (0=sbloccato, 1=bloccato)  
Mzi =Momento intorno all'asse Z locale nodo iniziale (0=sbloccato, 1=bloccato)  
Nf =Sforzo normale nodo finale (0=sbloccato, 1=bloccato)  
Ni =Sforzo normale nodo iniziale (0=sbloccato, 1=bloccato)  
Tipo =Tipologia  
SVI = Definizione di vincolamenti interni  
ELA = Vincolo su suolo elastico alla Winkler  
BIE-RTC = Biella resistente a trazione e a compressione  
BIE-RC = Biella resistente solo a compressione  
BIE-RT = Biella resistente solo a trazione  
Tyf =Taglio in dir. Y locale nodo finale (0=sbloccato, 1=bloccato)  
Tyi =Taglio in dir. Y locale nodo iniziale (0=sbloccato, 1=bloccato)  
Tzf =Taglio in dir. Z locale nodo finale (0=sbloccato, 1=bloccato)  
Tzi =Taglio in dir. Z locale nodo iniziale (0=sbloccato, 1=bloccato)  
Va =Numero del vincolo asta

Va	Comm.	Tipo	Ni	Tyi	Tzi	Mxi	Myi	Mzi	Nf	Tyf	Tzf	Mxf	Myf	Mzf	Kt <daN/cmc>
1	Inc+Inc	SVI	1	1	1	1	1	1	1	1	1	1	1	1	
30	Su suolo elassttico	ELA													0.10

## Elenco tipi elementi bidimensionali

### Simbologia

Ang. att. =Angolo di attrito  
Ang. dil. =Angolo di dilatanza  
Coes. =Coesione  
Comm. =Commento  
Crit. =Numero del criterio di progetto  
DP =Drucker-Prager  
Kt =Coeff. di sottofondo su suolo elastico alla Winkler  
Mat. =Numero del materiale  
Spess. =Spessore  
Tb =Numero del tipo muro/elemento bidimensionale  
Tipo =Tipologia  
F = Membranale e Flessionale  
M = Membranale



Relazione di calcolo

W-RC = Winkler resistente solo a compressione

W-RTC = Winkler resistente a trazione e a compressione

Uso =Utilizzo

S = Soletta/Platea

N = Nucleo

Tb	Comm.	Tipo	Uso	Spess. <cm>	Kt <daN/cmc>	DP	Ang. att. <grad>	Coes. <daN/mq>	Ang. dil. <grad>	Crit.	Mat.
1	Nuclei ascensore	F	N	14.00		N	0.00	0.00	0.00	1	
2	Balconi	F	S	20.00		N	0.00	0.00	0.00	1	
4	Fond Ascensore	W-RTC	S	70.00	0.31	N	0.00	0.00	0.00	1	
5	Parete scantinato	F	N	40.00		N	0.00	0.00	0.00	1	
6	Parete scantinato s 50	F	N	50.00		N	0.00	0.00	0.00	1	
9	Vano Scala sp.20	F	N	20.00		N	0.00	0.00	0.00	1	

Elenco tipi solai

Simbologia

Comm. =Commento

Lfl =Larghezza fascia laterale

QA =Primo carico accidentale

QA2 =Secondo carico accidentale

QA3 =Terzo carico accidentale

Qpn =Carico permanente non strutturale

Qps =Carico permanente strutturale

Rc =Ripartizione carichi

UN = Unidirezionale

Rip. int. =Ripartizione su aste interne

Rip. ter. =Ripartizione su aste terminali

Ts =Numero del tipo solaio

s =Coeff. di riduzione

Ts	Comm.	Rc	Qps <daN/mq>	Qpn <daN/mq>	QA <daN/mq>	QA2 <daN/mq>	QA3 <daN/mq>	Rip. ter.	Rip. int.	Lfl <m>	s
1	Solaio di piano sp.24	UN	230.00	190.00	200.00	0.00	0.00	50.00	50.00	0.00	0.50
2	Solaio copertura	UN	230.00	400.00	200.00	80.00	0.00	50.00	50.00	0.00	1.00
3	Solaio SP	UN	200.00	200.00	200.00	0.00	0.00	50.00	50.00	0.00	1.00
4	Solaio s100	UN	500.00	200.00	200.00	0.00	0.00	50.00	50.00	0.00	1.00

Elenco solai

Simbologia

Nodi =Nodi del solaio

Ord. =Orditura

Sol. =Numero del solaio

Ts =Numero del tipo solaio

Sol.	Ts	Ord. <grad>	Nodi
100	3	90.00	-49 -50 168 167 -7136 -7134 -7135 166 165 164 163
101	3	90.00	160 131 132 161 -34 -35 -36 -37 -38 -39 -40 -41 162 -50 -49
102	3	90.00	-11 -12 161 132 131 160
103	3	90.00	-3 -4 -12 -11
104	3	90.00	154 155 156 -1 -4 -3
105	3	0.00	-1 157 159 -14 -21 -28 -35 -34 161 -12 -4
106	3	0.00	157 -2 158 -9 -18 -25 -32 -39 -38 -37 -36 -35 -28 -21 -14 159
302	1	90.00	329 330 331 332 393 -939 401 351 350 349 348 347
303	1	90.00	392 328 329 347 346 345 400 -938
304	1	90.00	307 308 -829 -830 -831 -832 -833 -834 -835 -836 309 -837 -838 -839 -840 -841 -842 -843 310 -844 -845 -846 -847 -848 -849 -850 311 -851 -852 -853 -854 -855 -856 -857 312 -858 -859 -860 -861 -862 -863 -864 -865 313 329 328 392 391 -923 -917 -910 -909 -908 -916 -922 390 389 327 326 325
305	1	90.00	341 325 326 327 389 -934 399 344 343 342
306	1	90.00	396 333 334 354 353 352 402 -943
307	1	90.00	313 314 315 -866 -867 -868 -869 -870 -871 -872 -873 316 -874 -875 -876 -877 -878 -879 -880 -881 317 -882 -883 -884 -885 -886 -887 -888 318 -889 -890 -891 -892 -893 -894 -895 -896 319 -897 -898 -899 -900 -901 -902 -903 -904 320 334 333 396 395 -925 -919 -913 -912 -911 -918 -924 394 393 332 331 330 329
502	1	90.00	592 528 529 547 546 545 600 -1712
503	1	90.00	529 530 531 532 593 -1713 601 551 550 549 548 547
504	1	90.00	507 508 -1603 -1604 -1605 -1606 -1607 -1608 -1609 -1610 509 -1611 -1612 -1613 -1614 -1615 -1616 -1617 510 -1618 -1619 -1620 -1621 -1622 -1623 -1624 511 -1625 -1626 -1627 -1628 -1629 -1630 -1631 512 -1632 -1633 -1634 -1635 -1636 -1637 -1638 -1639 513 529 528 592 591 -1697 -1691 -1684 -1683 -1682 -1690 -1696 590 589 527 526 525
505	1	90.00	525 526 527 589 -1708 599 544 543 542 541
506	1	90.00	596 533 534 554 553 552 602 -1717
507	1	90.00	513 514 515 -1640 -1641 -1642 -1643 -1644 -1645 -1646 -1647 516 -1648 -1649 -1650 -1651 -1652 -1653 -1654 -1655 517 -1656 -1657 -1658 -1659 -1660 -1661 -1662 518 -1663 -1664 -1665 -1666 -1667 -1668 -1669 -1670 519 -1671 -1672 -1673 -1674 -1675 -1676 -1677 -1678 520 534 533 596 595 -1699 -1693 -1687 -1686 -1685 -1692 -1698 594 593 532 531 530 529
702	1	90.00	707 708 -2368 -2369 -2370 -2371 -2372 -2373 -2374 -2375 709 -2376 -2377 -2378 -2379 -2380 -2381 -2382 710 -2383 -2384 -2385 -2386 -2387 -2388 -2389 711 -2390 -2391 -2392 -2393 -2394 -2395 -2396 712 -2397



# Relazione di calcolo

			-2398 -2399 -2400 -2401 -2402 -2403 -2404 713 729 728 792 791 -2462 -2456 -2449 -2448 -2447 -2455 -2461 790 789 727 726 725
703	1	90.00	792 728 729 747 746 745 800 -2477
704	1	90.00	725 726 727 789 -2473 799 744 743 742 741
705	1	90.00	796 733 734 754 753 752 802 -2482
706	1	90.00	713 714 715 -2405 -2406 -2407 -2408 -2409 -2410 -2411 -2412 716 -2413 -2414 -2415 -2416 -2417 -2418 -2419 -2420 717 -2421 -2422 -2423 -2424 -2425 -2426 -2427 718 -2428 -2429 -2430 -2431 -2432 -2433 -2434 -2435 719 -2436 -2437 -2438 -2439 -2440 -2441 -2442 -2443 720 734 733 796 795 -2464 -2458 -2452 -2451 -2450 -2457 -2463 794 793 732 731 730 729
707	1	90.00	729 730 731 732 793 -2478 801 751 750 749 748 747
902	1	90.00	992 928 929 947 946 945 1000 -3242
903	1	90.00	929 930 931 932 993 -3243 1001 951 950 949 948 947
904	1	90.00	907 908 -3133 -3134 -3135 -3136 -3137 -3138 -3139 -3140 909 -3141 -3142 -3143 -3144 -3145 -3146 -3147 910 -3148 -3149 -3150 -3151 -3152 -3153 -3154 911 -3155 -3156 -3157 -3158 -3159 -3160 -3161 912 -3162 -3163 -3164 -3165 -3166 -3167 -3168 -3169 913 929 928 992 991 -3227 -3221 -3214 -3213 -3212 -3220 -3226 990 989 927 926 925
905	1	90.00	925 926 927 989 -3238 999 944 943 942 941
906	1	90.00	996 933 934 954 953 952 1002 -3247
907	1	90.00	913 914 915 -3170 -3171 -3172 -3173 -3174 -3175 -3176 -3177 916 -3178 -3179 -3180 -3181 -3182 -3183 -3184 -3185 917 -3186 -3187 -3188 -3189 -3190 -3191 -3192 918 -3193 -3194 -3195 -3196 -3197 -3198 -3199 -3200 919 -3201 -3202 -3203 -3204 -3205 -3206 -3207 -3208 920 934 933 996 995 -3229 -3223 -3217 -3216 -3215 -3222 -3228 994 993 932 931 930 929
1103	1	90.00	1192 1128 1129 1147 1146 1145 1200 -4007
1104	1	90.00	1129 1130 1131 1132 1193 -4008 1201 1151 1150 1149 1148 1147
1105	1	90.00	1107 1108 -3898 -3899 -3900 -3901 -3902 -3903 -3904 -3905 1109 -3906 -3907 -3908 -3909 -3910 -3911 -3912 1110 -3913 -3914 -3915 -3916 -3917 -3918 -3919 1111 -3920 -3921 -3922 -3923 -3924 -3925 -3926 1112 -3927 -3928 -3929 -3930 -3931 -3932 -3933 -3934 1113 1129 1128 1192 1191 -3992 -3986 -3979 -3978 -3977 -3985 -3991 1190 1189 1127 1126 1125
1106	1	90.00	1125 1126 1127 1189 -4003 1199 1144 1143 1142 1141
1107	1	90.00	1196 1133 1134 1154 1153 1152 1202 -4012
1108	1	90.00	1113 1114 1115 -3935 -3936 -3937 -3938 -3939 -3940 -3941 -3942 1116 -3943 -3944 -3945 -3946 -3947 -3948 -3949 -3950 1117 -3951 -3952 -3953 -3954 -3955 -3956 -3957 1118 -3958 -3959 -3960 -3961 -3962 -3963 -3964 -3965 1119 -3966 -3967 -3968 -3969 -3970 -3971 -3972 -3973 1120 1134 1133 1196 1195 -3994 -3988 -3982 -3981 -3980 -3987 -3993 1194 1193 1132 1131 1130 1129
1303	1	90.00	1392 1328 1329 1347 1346 1345 1400 -4772
1304	1	90.00	1329 1330 1331 1332 1393 -4773 1401 1351 1350 1349 1348 1347
1305	1	90.00	1307 1308 -4663 -4664 -4665 -4666 -4667 -4668 -4669 -4670 1309 -4671 -4672 -4673 -4674 -4675 -4676 -4677 1310 -4678 -4679 -4680 -4681 -4682 -4683 -4684 1311 -4685 -4686 -4687 -4688 -4689 -4690 -4691 1312 -4692 -4693 -4694 -4695 -4696 -4697 -4698 -4699 1313 1329 1328 1392 1391 -4757 -4751 -4744 -4743 -4742 -4750 -4756 1390 1389 1327 1326 1325
1306	1	90.00	1325 1326 1327 1389 -4768 1399 1344 1343 1342 1341
1307	1	90.00	1396 1333 1334 1354 1353 1352 1402 -4777
1308	1	90.00	1313 1314 1315 -4700 -4701 -4702 -4703 -4704 -4705 -4706 -4707 1316 -4708 -4709 -4710 -4711 -4712 -4713 -4714 -4715 1317 -4716 -4717 -4718 -4719 -4720 -4721 -4722 1318 -4723 -4724 -4725 -4726 -4727 -4728 -4729 -4730 1319 -4731 -4732 -4733 -4734 -4735 -4736 -4737 -4738 1320 1334 1333 1396 1395 -4759 -4753 -4747 -4746 -4745 -4752 -4758 1394 1393 1332 1331 1330 1329
1503	1	90.00	1592 1528 1529 1547 1546 1545 1600 -5538
1504	1	90.00	1529 1530 1531 1532 1593 -5539 1601 1551 1550 1549 1548 1547
1505	1	90.00	1507 1508 -5428 -5429 -5430 -5431 -5432 -5433 -5434 -5435 1509 -5436 -5437 -5438 -5439 -5440 -5441 -5442 1510 -5443 -5444 -5445 -5446 -5447 -5448 -5449 1511 -5450 -5451 -5452 -5453 -5454 -5455 -5456 1512 -5457 -5458 -5459 -5460 -5461 -5462 -5463 -5464 1513 1529 1528 1592 1591 -5522 -5516 -5509 -5508 -5507 -5515 -5521 1590 1589 1527 1526 1525
1506	1	90.00	1525 1526 1527 1589 -5534 1599 1544 1543 1542 1541
1507	1	90.00	1596 1533 1534 1554 1553 1552 1602 -5543
1508	1	90.00	1513 1514 1515 -5465 -5466 -5467 -5468 -5469 -5470 -5471 -5472 1516 -5473 -5474 -5475 -5476 -5477 -5478 -5479 -5480 1517 -5481 -5482 -5483 -5484 -5485 -5486 -5487 1518 -5488 -5489 -5490 -5491 -5492 -5493 -5494 -5495 1519 -5496 -5497 -5498 -5499 -5500 -5501 -5502 -5503 1520 1534 1533 1596 1595 -5524 -5518 -5512 -5511 -5510 -5517 -5523 1594 1593 1532 1531 1530 1529
1703	1	90.00	1792 1728 1729 1747 1746 1745 1800 -6303
1704	1	90.00	1729 1730 1731 1732 1793 -6304 1801 1751 1750 1749 1748 1747
1705	1	90.00	1707 1708 -6194 -6195 -6196 -6197 -6198 -6199 -6200 -6201 1709 -6202 -6203 -6204 -6205 -6206 -6207 -6208 1710 -6209 -6210 -6211 -6212 -6213 -6214 -6215 1711 -6216 -6217 -6218 -6219 -6220 -6221 -6222 1712 -6223 -6224 -6225 -6226 -6227 -6228 -6229 -6230 1713 1729 1728 1792 1791 -6288 -6282 -6275 -6274 -6273 -6281 -6287 1790 1789 1727 1726 1725
1706	1	90.00	1725 1726 1727 1789 -6299 1799 1744 1743 1742 1741
1707	1	90.00	1796 1733 1734 1754 1753 1752 1802 -6308
1708	1	90.00	1713 1714 1715 -6231 -6232 -6233 -6234 -6235 -6236 -6237 -6238 1716 -6239 -6240 -6241 -6242 -6243 -6244 -6245 -6246 1717 -6247 -6248 -6249 -6250 -6251 -6252 -6253 1718 -6254 -6255 -6256 -6257 -6258 -6259 -6260 -6261 1719 -6262 -6263 -6264 -6265 -6266 -6267 -6268 -6269 1720 1734 1733 1796 1795 -6290 -6284 -6278 -6277 -6276 -6283 -6289 1794 1793 1732 1731 1730 1729
1903	2	90.00	1992 1928 1929 1947 1946 1945 2000 -7068
1904	2	90.00	1913 1914 1915 -6996 -6997 -6998 -6999 -7000 -7001 -7002 -7003 1916 -7004 -7005 -7006 -7007 -7008 -7009 -7010 -7011 1917 -7012 -7013 -7014 -7015 -7016 -7017 -7018 1918 -7019 -7020 -7021 -7022 -7023 -7024 -7025 -7026 1919 -7027 -7028 -7029 -7030 -7031 -7032 -7033 -7034 1920 1934 1933 1996 1995 -7055 -7049 -7043 -7042 -7041 -7048 -7054 1994 1993 1932 1931 1930 1929
1905	2	90.00	1907 1908 -6959 -6960 -6961 -6962 -6963 -6964 -6965 -6966 1909 -6967 -6968 -6969 -6970 -6971 -6972 -6973 1910 -6974 -6975 -6976 -6977 -6978 -6979 -6980 1911 -6981 -6982 -6983 -6984 -6985 -6986 -6987 1912 -6988 -6989 -6990 -6991 -6992 -6993 -6994 -6995 1913 1929 1928 1992 1991 -7053 -7047 -7040 -7039 -7038 -7046 -7052 1990 1989 1927 1926 1925
1906	2	90.00	1925 1926 1927 1989 -7064 1999 1944 1943 1942 1941



Relazione di calcolo

1907	2	90.00	1996 1933 1934 1954 1953 1952 2002 -7073
1908	2	90.00	1929 1930 1931 1932 1993 -7069 2001 1951 1950 1949 1948 1947
2202	3	0.00	13 -81 114 -84 -96 130 29
2203	3	0.00	29 130 -184 148 -186 47
2204	3	0.00	12 13 29 28
2205	3	0.00	28 29 47 46
2206	3	0.00	8 9 27 26
2207	3	0.00	26 27 43 42
2208	3	0.00	25 26 42 41
2209	3	0.00	7 8 26 25
2220	3	0.00	9 10 59 -105 -123 -140 -157 -156 64 27
2221	3	0.00	27 64 -156 -157 -178 44 43
2222	3	0.00	-157 -158 -159 -160 -161 -182 45 -7139 -7138 -7140 44 -178
2223	3	0.00	10 11 60 -109 -127 -144 -161 -160 -159 -158 -157 -140 -123 -105 59
2224	3	0.00	11 12 28 65 -162 -161 -144 -127 -109 60
2225	3	0.00	-161 -162 65 28 46 45 -182
2226	3	0.00	133 34 54 153 -185
2227	3	0.00	118 19 133 -169 -168 -167 -148 -131 -114 -95
2228	3	0.00	19 20 34 133
2229	4	0.00	-113 -114 -131 -148 -167 -166 -165 -147 -130
2230	4	90.00	130 169 170 -163 -164 -165 -166 -167 -168 -169 133 -185 153 152 -7133 -7131 -7132 151 150 149 148 -184
2231	4	90.00	114 115 116 -82 117 -83 118 -95 -114 -131 -148 -167 -166 -165 -164 -163 170 169 130 -96 -84

Elenco tipi tamponature

Simbologia

Comm. = Commento  
Crit. = Criterio di progetto  
P = Puntoni equivalenti  
S = Genera i puntoni equivalenti  
N = Non genera i puntoni equivalenti  
Qpn = Carico permanente non strutturale  
Rcg = Ripartizione carichi gravitazionali  
AP = Sull'asta di piede  
AL = Sulle aste laterali  
APT = Sulle aste di piede e di testa  
Rcv = Ripartizione carichi vento  
AP = Sull'asta di piede  
AL = Sulle aste laterali  
Tipo = Tipologia  
C = Area di carico  
V = Area di carico e verifica  
Tt = Numero del tipo tamponatura

Tt	Comm.	Qpn <daN/mq>	Rcg	Rcv	P	Tipo	Crit.
1	Tamponamento esterno cassetta	300.00	AP	AL	N	V	1
2	Tamponatura Balconi	170.00	AP	AL	N	V	1

Carichi

Elenco tipi CCE

Simbologia

$\gamma_{max}$  = Coeff.  $\gamma_{max}$   
 $\gamma_{min.}$  = Coeff.  $\gamma_{min.}$   
 $\psi_0$  = Coeff.  $\psi_0$   
 $\psi_{0,s}$  = Coeff.  $\psi_0$  sismico (D.M. 96)  
 $\psi_1$  = Coeff.  $\psi_1$   
 $\psi_2$  = Coeff.  $\psi_2$   
Comm. = Commento  
Durata = Durata del carico  
P = Permanente  
L = Lunga  
M = Media  
Tipo = Tipologia  
G = Permanente  
Qv = Variabile vento  
Q = Variabile  
Tipo CCE = Tipo condizione di carico elementare

Tipo CCE	Comm.	Tipo	Durata	$\gamma_{min.}$	$\gamma_{max}$	$\psi_0$	$\psi_1$	$\psi_2$	$\psi_{0,s}$
20	D.M. 18 Permanenti strutturali	G	P	1.00	1.30				
21	D.M. 18 Permanenti non strutturali	G	L	0.80	1.50				
22	D.M. 18 Variabili Categoria A - Ambienti ad uso residenziale	Q	M	0.00	1.50	0.70	0.50	0.30	0.00
31	D.M. 18 Variabili Neve (a quota <= 1000 m s.l.m.)	Q	M	0.00	1.50	0.50	0.20	0.00	0.00



## Condizioni di carico elementari

### Simbologia

CCE = Numero della condizione di carico elementare  
 Comm. = Commento  
 Dir. = Direzione del vento  
 Jpx = Moltiplicatore del momento d'inerzia intorno all'asse X  
 Jpy = Moltiplicatore del momento d'inerzia intorno all'asse Y  
 Jpz = Moltiplicatore del momento d'inerzia intorno all'asse Z  
 Mx = Moltiplicatore della massa in dir. X  
 My = Moltiplicatore della massa in dir. Y  
 Mz = Moltiplicatore della massa in dir. Z  
 Sic. = Contributo alla sicurezza  
     S = a sfavore  
 Tipo = Tipologia di pressione vento  
     M = Massimizzata  
     E = Esterna  
     I = Interna  
 Tipo CCE = Tipo di CCE per calcolo agli stati limite  
 Var. = Tipo di variabilità  
     B = di base  
 s = Coeff. di riduzione (T.A. o S.L. D.M. 96)

CCE	Comm.	Tipo CCE	Sic.	Var.	s	Dir. <grad>	Tipo	Mx	My	Mz	Jpx	Jpy	Jpz
1	Permanenti strutturali	20	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
2	Permanenti non strutturali	21	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
3	Variabili Civile Abitazione	22	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
4	Variabili neve	31	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
5	Scale perm non strutturale	21	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
6	scale variabile	22	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00

## Elenco carichi asteCondizione di carico n. 1: Permanenti strutturali

### Elenco peso proprio aste

### Simbologia

A = Area  
 Comm. = Commento  
 Mat. = Materiale  
 P = Peso specifico  
 PL = Peso specifico a metro lineare  
 Sez. = Numero della sezione

Sez.	Comm.	A <cmq>	Mat.	P <daN/mc>	PL <daN/m>
1	Pil 40x50	2000.000000	Calcestruzzo	2500.00	500.00
2	Pil 40x68	2720.000000	Calcestruzzo	2500.00	680.00
7	Pil 30x35	1050.000000	Calcestruzzo	2500.00	262.50
9	Pil 25x35	875.000000	Calcestruzzo	2500.00	218.75
10	Pil 40x35	1400.000000	Calcestruzzo	2500.00	350.00
16	Tr 16x66	1040.000000	Calcestruzzo	2500.00	260.00
18	Tr 18x24	432.000000	Calcestruzzo	2500.00	108.00
19	cord 20x18	360.000000	Calcestruzzo	2500.00	90.00
21	Pil 30x68	2040.000000	Calcestruzzo	2500.00	510.00
22	Pil 25x68	1700.000000	Calcestruzzo	2500.00	425.00
23	Pil 30x50	1500.000000	Calcestruzzo	2500.00	375.00
24	Pil 25x50	1250.000000	Calcestruzzo	2500.00	312.50
25	Tr 70x24	1680.000000	Calcestruzzo	2500.00	420.00
26	Tr 30x24	720.000000	Calcestruzzo	2500.00	180.00
27	Tr 70x20	1400.000000	Calcestruzzo	2500.00	350.00
28	Tr 100x24	2400.000000	Calcestruzzo	2500.00	600.00
30	Tr 30x50	1500.000000	Calcestruzzo	2500.00	375.00
31	Tr 50x24	1200.000000	Calcestruzzo	2500.00	300.00
32	Tr 14x65	910.000000	Calcestruzzo	2500.00	227.50
37	Trave T 24x14x41x100	2974.000000	Calcestruzzo	2500.00	743.50
38	TrvF T1	6800.000000	Calcestruzzo	2500.00	1700.00
39	TrvF T1*	7200.000000	Calcestruzzo	2500.00	1800.00
40	TrvF T56789	10200.000000	Calcestruzzo	2500.00	2550.00
41	TrvF T9*7*	10200.000000	Calcestruzzo	2500.00	2550.00
42	TrvF T233*	12480.000000	Calcestruzzo	2500.00	3120.00
43	TrvF A-b	5200.000000	Calcestruzzo	2500.00	1300.00
44	Trv 60x35 T10	2380.000000	Calcestruzzo	2500.00	595.00
45	Trv 20x20 T12	400.000000	Calcestruzzo	2500.00	100.00
46	Trv 30x40 CP	1200.000000	Calcestruzzo	2500.00	300.00
47	Trv 30x55 CPR	1650.000000	Calcestruzzo	2500.00	412.50
48	TrvF muretti	2400.000000	Calcestruzzo	2500.00	600.00
49	Pil 25x50	1250.000000	Calcestruzzo	2500.00	312.50
50	Pil 25x68	1700.000000	Calcestruzzo	2500.00	425.00



## Condizione di carico n. 1: Permanenti strutturali

### Carichi distribuiti

#### Simbologia

Asta = Numero dell'asta  
 DC = Direzione del carico  
 XG,YG,ZG = secondo gli assi globali  
 XL,YL,ZL = secondo gli assi locali  
 E = Elemento provenienza del carico  
 S = Solaio  
 T = Tamponatura  
 N1 = Nodo iniziale  
 N2 = Nodo finale  
 NE = Numero elemento di provenienza del carico  
 Qf = Carico finale  
 Qi = Carico iniziale  
 T = Tipo di carico  
 QA = Primo carico accidentale  
 QA2 = Secondo carico accidentale  
 QA3 = Terzo carico accidentale  
 QPS = Carico permanente strutturale  
 QPN = Carico permanente non strutturale  
 VE = Vento  
 M = Manuale  
 Xf = Distanza finale  
 Xi = Distanza iniziale

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1682	-1683	S	504	QPS	ZG	0.00	433.55	0.79	433.55
0	-2447	-2448	S	702	QPS	ZG	0.00	433.55	0.79	433.55
0	114	-84	S	2202	QPS	ZG	0.00	325.00	1.85	325.00
0	-96	130	S	2202	QPS	ZG	0.00	325.00	1.85	325.00
0	-184	148	S	2203	QPS	ZG	0.00	325.00	2.58	325.00
0	114	115	S	2231	QPS	ZG	0.00	1387.50	3.25	1387.50
0	-3977	-3978	S	1105	QPS	ZG	0.00	433.55	0.79	433.55
0	149	150	S	2230	QPS	ZG	0.00	1292.50	3.25	1292.50
0	-4742	-4743	S	1305	QPS	ZG	0.00	433.55	0.79	433.55
0	-82	117	S	2231	QPS	ZG	0.00	1387.50	1.55	1387.50
0	116	-82	S	2231	QPS	ZG	0.00	1387.50	1.70	1387.50
0	117	-83	S	2231	QPS	ZG	0.00	1387.50	1.44	1387.50
0	-5508	-5509	S	1505	QPS	ZG	0.00	433.55	0.79	433.55
0	-163	-164	S	2230	QPS	ZG	0.00	1292.50	0.79	1292.50
0	-7132	-7131	S	2230	QPS	ZG	0.00	1292.50	0.72	1292.50
0	-167	-148	S	2229	QPS	ZG	0.00	167.50	0.59	167.50
0	-147	-130	S	2229	QPS	ZG	0.00	167.50	0.59	167.50
0	-130	-113	S	2229	QPS	ZG	0.00	167.50	0.59	167.50
0	-164	-165	S	2231	QPS	ZG	0.00	1387.50	0.79	1387.50
0	-148	-131	S	2229	QPS	ZG	0.00	167.50	0.59	167.50
0	-131	-114	S	2227	QPS	ZG	0.00	323.00	0.59	323.00
0	-6274	-6275	S	1705	QPS	ZG	0.00	433.55	0.79	433.55
0	-6273	-6274	S	1705	QPS	ZG	0.00	433.55	0.79	433.55
0	-169	-168	S	2230	QPS	ZG	0.00	1292.50	0.81	1292.50
0	133	-169	S	2230	QPS	ZG	0.00	1292.50	1.88	1292.50
0	-7038	-7039	S	1905	QPS	ZG	0.00	433.55	0.79	433.55
0	-1686	-1687	S	507	QPS	ZG	0.00	433.55	0.79	433.55
0	-7039	-7040	S	1905	QPS	ZG	0.00	433.55	0.79	433.55
0	-1685	-1686	S	507	QPS	ZG	0.00	433.55	0.79	433.55
0	-2451	-2452	S	706	QPS	ZG	0.00	433.55	0.79	433.55
0	-3216	-3217	S	907	QPS	ZG	0.00	433.55	0.79	433.55
0	-3980	-3981	S	1108	QPS	ZG	0.00	433.55	0.79	433.55
0	-4746	-4747	S	1308	QPS	ZG	0.00	433.55	0.79	433.55
0	-5511	-5512	S	1508	QPS	ZG	0.00	433.55	0.79	433.55

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1683	-1684	S	504	QPS	ZG	0.00	433.55	0.79	433.55
0	-2448	-2449	S	702	QPS	ZG	0.00	433.55	0.79	433.55
0	-84	-96	S	2202	QPS	ZG	0.00	325.00	1.85	325.00
0	130	-184	S	2203	QPS	ZG	0.00	325.00	2.58	325.00
0	-3212	-3213	S	904	QPS	ZG	0.00	433.55	0.79	433.55
0	-3213	-3214	S	904	QPS	ZG	0.00	433.55	0.79	433.55
0	-3978	-3979	S	1105	QPS	ZG	0.00	433.55	0.79	433.55
0	115	116	S	2231	QPS	ZG	0.00	1387.50	3.25	1387.50
0	-4743	-4744	S	1305	QPS	ZG	0.00	433.55	0.79	433.55
0	148	149	S	2230	QPS	ZG	0.00	1292.50	3.25	1292.50
0	-83	118	S	2231	QPS	ZG	0.00	1387.50	1.46	1387.50
0	-5507	-5508	S	1505	QPS	ZG	0.00	433.55	0.79	433.55
0	-95	118	S	2227	QPS	ZG	0.00	323.00	2.66	323.00
0	-163	-164	S	2231	QPS	ZG	0.00	1387.50	0.79	1387.50
0	-167	-148	S	2227	QPS	ZG	0.00	323.00	0.59	323.00
0	150	151	S	2230	QPS	ZG	0.00	1292.50	3.25	1292.50
0	-114	-95	S	2227	QPS	ZG	0.00	323.00	1.11	323.00
0	-164	-165	S	2230	QPS	ZG	0.00	1292.50	0.79	1292.50
0	-148	-131	S	2227	QPS	ZG	0.00	323.00	0.59	323.00
0	-7131	-7133	S	2230	QPS	ZG	0.00	1292.50	0.72	1292.50
0	-131	-114	S	2229	QPS	ZG	0.00	167.50	0.59	167.50
0	-165	-147	S	2229	QPS	ZG	0.00	167.50	0.59	167.50
0	-168	-167	S	2230	QPS	ZG	0.00	1292.50	0.54	1292.50
0	152	153	S	2230	QPS	ZG	0.00	1292.50	3.23	1292.50
0	-185	133	S	2226	QPS	ZG	0.00	323.00	2.58	323.00
0	-7133	152	S	2230	QPS	ZG	0.00	1292.50	0.72	1292.50
0	153	-185	S	2226	QPS	ZG	0.00	323.00	2.58	323.00
0	151	-7132	S	2230	QPS	ZG	0.00	1292.50	0.72	1292.50
0	-2450	-2451	S	706	QPS	ZG	0.00	433.55	0.79	433.55
0	-3215	-3216	S	907	QPS	ZG	0.00	433.55	0.79	433.55
0	-3981	-3982	S	1108	QPS	ZG	0.00	433.55	0.79	433.55
0	-4745	-4746	S	1308	QPS	ZG	0.00	433.55	0.79	433.55
0	-5510	-5511	S	1508	QPS	ZG	0.00	433.55	0.79	433.55
0	-6276	-6277	S	1708	QPS	ZG	0.00	433.55	0.79	433.55



# Relazione di calcolo

0	-6277	-6278	S	1708	QPS	ZG	0.00	433.55	0.79	433.55
0	-7042	-7043	S	1904	QPS	ZG	0.00	433.55	0.79	433.55
1003	155	156	S	104	QPS	ZG	0.00	185.00	3.25	185.00
1004	-3	-4	S	103	QPS	ZG	0.00	185.00	8.20	185.00
1005	-11	-12	S	102	QPS	ZG	0.00	185.00	8.20	185.00
1007	160	131	S	101	QPS	ZG	0.00	258.50	3.25	258.50
1007	131	132	S	101	QPS	ZG	0.00	258.50	3.25	258.50
1007	132	161	S	101	QPS	ZG	0.00	258.50	1.70	258.50
1007	161	-34	S	101	QPS	ZG	0.00	258.50	0.99	258.50
1007	-35	-36	S	101	QPS	ZG	0.00	258.50	0.65	258.50
1007	-37	-38	S	101	QPS	ZG	0.00	258.50	0.79	258.50
1007	-39	-40	S	101	QPS	ZG	0.00	258.50	0.54	258.50
1007	-41	162	S	101	QPS	ZG	0.00	258.50	1.88	258.50
1008	-49	-50	S	101	QPS	ZG	0.00	258.50	15.88	258.50
1009	164	165	S	100	QPS	ZG	0.00	258.50	3.25	258.50
1009	166	-7135	S	100	QPS	ZG	0.00	258.50	0.72	258.50
1009	-7134	-7136	S	100	QPS	ZG	0.00	258.50	0.72	258.50
1009	167	168	S	100	QPS	ZG	0.00	258.50	3.23	258.50
1034	-4	-12	S	105	QPS	ZG	0.00	155.00	1.85	155.00
1035	157	159	S	105	QPS	ZG	0.00	155.00	2.66	155.00
1035	159	-14	S	105	QPS	ZG	0.00	155.00	1.11	155.00
1035	-14	-21	S	105	QPS	ZG	0.00	155.00	0.59	155.00
1035	-21	-28	S	105	QPS	ZG	0.00	155.00	0.59	155.00
1035	-28	-35	S	105	QPS	ZG	0.00	155.00	0.59	155.00
1041	158	-9	S	106	QPS	ZG	0.00	290.00	2.66	290.00
1041	-18	-25	S	106	QPS	ZG	0.00	290.00	0.59	290.00
1041	-32	-39	S	106	QPS	ZG	0.00	290.00	0.59	290.00
3003	308	-829	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-830	-831	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-832	-833	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-834	-835	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-836	309	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-837	-838	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-839	-840	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-841	-842	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-843	310	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-844	-845	S	304	QPS	ZG	0.00	638.25	0.33	638.25
3003	-845	-846	S	304	QPS	ZG	0.00	433.55	0.38	433.55
3003	-847	-848	S	304	QPS	ZG	0.00	433.55	0.38	433.55
3003	-849	-850	S	304	QPS	ZG	0.00	433.55	0.03	433.55
3003	-850	311	S	304	QPS	ZG	0.00	638.25	0.38	638.25
3003	-851	-852	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-853	-854	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-855	-856	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-857	312	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-858	-859	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-860	-861	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-862	-863	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-864	-865	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	313	314	S	307	QPS	ZG	0.00	638.25	3.25	638.25
3003	315	-866	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-867	-868	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-869	-870	S	307	QPS	ZG	0.00	638.25	0.36	638.25

0	-7041	-7042	S	1904	QPS	ZG	0.00	433.55	0.79	433.55
1003	154	155	S	104	QPS	ZG	0.00	185.00	3.25	185.00
1003	156	-1	S	104	QPS	ZG	0.00	185.00	1.70	185.00
1004	-3	-4	S	104	QPS	ZG	0.00	185.00	8.20	185.00
1005	-11	-12	S	103	QPS	ZG	0.00	185.00	8.20	185.00
1007	160	131	S	102	QPS	ZG	0.00	185.00	3.25	185.00
1007	131	132	S	102	QPS	ZG	0.00	185.00	3.25	185.00
1007	132	161	S	102	QPS	ZG	0.00	185.00	1.70	185.00
1007	-34	-35	S	101	QPS	ZG	0.00	258.50	0.56	258.50
1007	-36	-37	S	101	QPS	ZG	0.00	258.50	0.79	258.50
1007	-38	-39	S	101	QPS	ZG	0.00	258.50	0.67	258.50
1007	-40	-41	S	101	QPS	ZG	0.00	258.50	0.81	258.50
1008	-49	-50	S	100	QPS	ZG	0.00	258.50	15.88	258.50
1009	163	164	S	100	QPS	ZG	0.00	258.50	3.25	258.50
1009	165	166	S	100	QPS	ZG	0.00	258.50	3.25	258.50
1009	-7135	-7134	S	100	QPS	ZG	0.00	258.50	0.72	258.50
1009	-7136	167	S	100	QPS	ZG	0.00	258.50	0.72	258.50
1034	-1	-4	S	105	QPS	ZG	0.00	155.00	1.85	155.00
1034	-12	161	S	105	QPS	ZG	0.00	155.00	1.85	155.00
1035	157	159	S	106	QPS	ZG	0.00	290.00	2.66	290.00
1035	159	-14	S	106	QPS	ZG	0.00	290.00	1.11	290.00
1035	-14	-21	S	106	QPS	ZG	0.00	290.00	0.59	290.00
1035	-21	-28	S	106	QPS	ZG	0.00	290.00	0.59	290.00
1035	-28	-35	S	106	QPS	ZG	0.00	290.00	0.59	290.00
1041	-9	-18	S	106	QPS	ZG	0.00	290.00	1.11	290.00
1041	-25	-32	S	106	QPS	ZG	0.00	290.00	0.59	290.00
3003	307	308	S	304	QPS	ZG	0.00	638.25	3.25	638.25
3003	-829	-830	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-831	-832	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-833	-834	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-835	-836	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	309	-837	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-838	-839	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-840	-841	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-842	-843	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	310	-844	S	304	QPS	ZG	0.00	638.25	0.38	638.25
3003	-844	-845	S	304	QPS	ZG	0.33	433.55	0.38	433.55
3003	-846	-847	S	304	QPS	ZG	0.00	433.55	0.38	433.55
3003	-848	-849	S	304	QPS	ZG	0.00	433.55	0.38	433.55
3003	-849	-850	S	304	QPS	ZG	0.03	638.25	0.38	638.25
3003	311	-851	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-852	-853	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-854	-855	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	-856	-857	S	304	QPS	ZG	0.00	638.25	0.40	638.25
3003	312	-858	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-859	-860	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-861	-862	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-863	-864	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	-865	313	S	304	QPS	ZG	0.00	638.25	0.36	638.25
3003	314	315	S	307	QPS	ZG	0.00	638.25	3.25	638.25
3003	-866	-867	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-868	-869	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-870	-871	S	307	QPS	ZG	0.00	638.25	0.36	638.25



# Relazione di calcolo

3003	-871	-872	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-873	316	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-874	-875	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-876	-877	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-878	-879	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-880	-881	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	317	-882	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-882	-883	S	307	QPS	ZG	0.29	433.55	0.36	433.55
3003	-884	-885	S	307	QPS	ZG	0.00	433.55	0.36	433.55
3003	-886	-887	S	307	QPS	ZG	0.00	433.55	0.36	433.55
3003	-887	-888	S	307	QPS	ZG	0.06	638.25	0.36	638.25
3003	318	-889	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-890	-891	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-892	-893	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-894	-895	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-896	319	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-897	-898	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-899	-900	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-901	-902	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-903	-904	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3007	325	326	S	304	QPS	ZG	0.00	638.25	3.25	638.25
3007	326	327	S	304	QPS	ZG	0.00	638.25	3.25	638.25
3007	327	389	S	304	QPS	ZG	0.00	638.25	3.20	638.25
3007	389	390	S	304	QPS	ZG	0.00	638.25	0.70	638.25
3007	392	328	S	303	QPS	ZG	0.00	594.55	3.18	594.55
3007	328	329	S	303	QPS	ZG	0.00	594.55	3.25	594.55
3007	329	330	S	302	QPS	ZG	0.00	594.55	3.25	594.55
3007	330	331	S	302	QPS	ZG	0.00	594.55	3.25	594.55
3007	331	332	S	302	QPS	ZG	0.00	594.55	3.25	594.55
3007	332	393	S	302	QPS	ZG	0.00	594.55	3.25	594.55
3007	393	394	S	307	QPS	ZG	0.00	638.25	0.65	638.25
3007	396	333	S	306	QPS	ZG	0.00	594.55	3.23	594.55
3007	333	334	S	306	QPS	ZG	0.00	594.55	3.23	594.55
3009	341	342	S	305	QPS	ZG	0.00	594.55	3.25	594.55
3009	343	344	S	305	QPS	ZG	0.00	594.55	3.20	594.55
3009	346	347	S	303	QPS	ZG	0.00	594.55	3.25	594.55
3009	348	349	S	302	QPS	ZG	0.00	594.55	3.25	594.55
3009	350	351	S	302	QPS	ZG	0.00	594.55	3.25	594.55
3009	353	354	S	306	QPS	ZG	0.00	594.55	3.23	594.55
3049	-908	-909	S	304	QPS	ZG	0.00	433.55	0.79	433.55
3092	-911	-912	S	307	QPS	ZG	0.00	433.55	0.79	433.55
3130	361	-316	--	M	ZG	0.00	550.00	0.36	550.00	
3130	-317	-318	--	M	ZG	0.00	550.00	0.36	550.00	
3130	-319	-320	--	M	ZG	0.00	550.00	0.36	550.00	
3130	-321	-322	--	M	ZG	0.00	550.00	0.36	550.00	
3130	-323	362	--	M	ZG	0.00	550.00	0.36	550.00	
3173	-324	-325	--	M	ZG	0.00	1500.00	0.38	1500.00	
3173	-326	-327	--	M	ZG	0.00	1500.00	0.38	1500.00	
3173	-328	-329	--	M	ZG	0.00	1500.00	0.38	1500.00	
3173	-330	364	--	M	ZG	0.00	1500.00	0.38	1500.00	
3216	-331	-332	--	M	ZG	0.00	550.00	0.36	550.00	
3216	-333	-334	--	M	ZG	0.00	550.00	0.36	550.00	
3216	-335	-336	--	M	ZG	0.00	550.00	0.36	550.00	

3003	-872	-873	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	316	-874	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-875	-876	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-877	-878	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-879	-880	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-881	317	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-882	-883	S	307	QPS	ZG	0.00	638.25	0.29	638.25
3003	-883	-884	S	307	QPS	ZG	0.00	433.55	0.36	433.55
3003	-885	-886	S	307	QPS	ZG	0.00	433.55	0.36	433.55
3003	-887	-888	S	307	QPS	ZG	0.00	433.55	0.06	433.55
3003	-888	318	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-889	-890	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-891	-892	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-893	-894	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-895	-896	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	319	-897	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-898	-899	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-900	-901	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-902	-903	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3003	-904	320	S	307	QPS	ZG	0.00	638.25	0.36	638.25
3007	325	326	S	305	QPS	ZG	0.00	594.55	3.25	594.55
3007	326	327	S	305	QPS	ZG	0.00	594.55	3.25	594.55
3007	327	389	S	305	QPS	ZG	0.00	594.55	3.20	594.55
3007	391	392	S	304	QPS	ZG	0.00	638.25	0.72	638.25
3007	392	328	S	304	QPS	ZG	0.00	638.25	3.18	638.25
3007	328	329	S	304	QPS	ZG	0.00	638.25	3.25	638.25
3007	329	330	S	307	QPS	ZG	0.00	638.25	3.25	638.25
3007	330	331	S	307	QPS	ZG	0.00	638.25	3.25	638.25
3007	331	332	S	307	QPS	ZG	0.00	638.25	3.25	638.25
3007	332	393	S	307	QPS	ZG	0.00	638.25	3.25	638.25
3007	395	396	S	307	QPS	ZG	0.00	638.25	0.67	638.25
3007	396	333	S	307	QPS	ZG	0.00	638.25	3.23	638.25
3007	333	334	S	307	QPS	ZG	0.00	638.25	3.23	638.25
3009	342	343	S	305	QPS	ZG	0.00	594.55	3.25	594.55
3009	345	346	S	303	QPS	ZG	0.00	594.55	3.18	594.55
3009	347	348	S	302	QPS	ZG	0.00	594.55	3.25	594.55
3009	349	350	S	302	QPS	ZG	0.00	594.55	3.25	594.55
3009	352	353	S	306	QPS	ZG	0.00	594.55	3.23	594.55
3033	368	-445	--	M	ZG	0.00	550.00	0.40	550.00	
3049	-909	-910	S	304	QPS	ZG	0.00	433.55	0.79	433.55
3092	-912	-913	S	307	QPS	ZG	0.00	433.55	0.79	433.55
3130	-316	-317	--	M	ZG	0.00	550.00	0.36	550.00	
3130	-318	-319	--	M	ZG	0.00	550.00	0.36	550.00	
3130	-320	-321	--	M	ZG	0.00	550.00	0.36	550.00	
3130	-322	-323	--	M	ZG	0.00	550.00	0.36	550.00	
3173	363	-324	--	M	ZG	0.00	1500.00	0.38	1500.00	
3173	-325	-326	--	M	ZG	0.00	1500.00	0.38	1500.00	
3173	-327	-328	--	M	ZG	0.00	1500.00	0.38	1500.00	
3173	-329	-330	--	M	ZG	0.00	1500.00	0.38	1500.00	
3216	365	-331	--	M	ZG	0.00	550.00	0.36	550.00	
3216	-332	-333	--	M	ZG	0.00	550.00	0.36	550.00	
3216	-334	-335	--	M	ZG	0.00	550.00	0.36	550.00	
3216	-336	-337	--	M	ZG	0.00	550.00	0.36	550.00	



# Relazione di calcolo

3216	-337	-338	--	M	ZG	0.00	550.00	0.36	550.00	
3259	367	-339	--	M	ZG	0.00	550.00	0.36	550.00	
3259	-340	-341	--	M	ZG	0.00	550.00	0.36	550.00	
3259	-342	-343	--	M	ZG	0.00	550.00	0.36	550.00	
3259	-344	-345	--	M	ZG	0.00	550.00	0.36	550.00	
3259	-346	368	--	M	ZG	0.00	550.00	0.36	550.00	
3302	-347	-348	--	M	ZG	0.00	1500.00	0.36	1500.00	
3302	-349	-350	--	M	ZG	0.00	1500.00	0.36	1500.00	
3302	-351	-352	--	M	ZG	0.00	1500.00	0.36	1500.00	
3302	-353	370	--	M	ZG	0.00	1500.00	0.36	1500.00	
5003	508	-1603	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1604	-1605	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1606	-1607	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1608	-1609	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1610	509	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1611	-1612	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1613	-1614	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1615	-1616	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1617	510	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1618	-1619	S	504	QPS	ZG	0.00	638.25	0.33	638.25
5003	-1619	-1620	S	504	QPS	ZG	0.00	433.55	0.38	433.55
5003	-1621	-1622	S	504	QPS	ZG	0.00	433.55	0.38	433.55
5003	-1623	-1624	S	504	QPS	ZG	0.00	433.55	0.03	433.55
5003	-1624	511	S	504	QPS	ZG	0.00	638.25	0.38	638.25
5003	-1625	-1626	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1627	-1628	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1629	-1630	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1631	512	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1632	-1633	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1634	-1635	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1636	-1637	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1638	-1639	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	513	514	S	507	QPS	ZG	0.00	638.25	3.25	638.25
5003	515	-1640	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1641	-1642	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1643	-1644	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1645	-1646	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1647	516	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1648	-1649	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1650	-1651	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1652	-1653	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1654	-1655	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	517	-1656	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1656	-1657	S	507	QPS	ZG	0.29	433.55	0.36	433.55
5003	-1658	-1659	S	507	QPS	ZG	0.00	433.55	0.36	433.55
5003	-1660	-1661	S	507	QPS	ZG	0.00	433.55	0.36	433.55
5003	-1661	-1662	S	507	QPS	ZG	0.06	638.25	0.36	638.25
5003	518	-1663	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1664	-1665	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1666	-1667	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1668	-1669	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1670	519	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1671	-1672	S	507	QPS	ZG	0.00	638.25	0.36	638.25

3216	-338	366	--	M	ZG	0.00	550.00	0.36	550.00	
3259	-339	-340	--	M	ZG	0.00	550.00	0.36	550.00	
3259	-341	-342	--	M	ZG	0.00	550.00	0.36	550.00	
3259	-343	-344	--	M	ZG	0.00	550.00	0.36	550.00	
3259	-345	-346	--	M	ZG	0.00	550.00	0.36	550.00	
3302	369	-347	--	M	ZG	0.00	1500.00	0.36	1500.00	
3302	-348	-349	--	M	ZG	0.00	1500.00	0.36	1500.00	
3302	-350	-351	--	M	ZG	0.00	1500.00	0.36	1500.00	
3302	-352	-353	--	M	ZG	0.00	1500.00	0.36	1500.00	
5003	507	508	S	504	QPS	ZG	0.00	638.25	3.25	638.25
5003	-1603	-1604	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1605	-1606	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1607	-1608	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1609	-1610	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	509	-1611	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1612	-1613	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1614	-1615	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1616	-1617	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	510	-1618	S	504	QPS	ZG	0.00	638.25	0.38	638.25
5003	-1618	-1619	S	504	QPS	ZG	0.33	433.55	0.38	433.55
5003	-1620	-1621	S	504	QPS	ZG	0.00	433.55	0.38	433.55
5003	-1622	-1623	S	504	QPS	ZG	0.00	433.55	0.38	433.55
5003	-1623	-1624	S	504	QPS	ZG	0.03	638.25	0.38	638.25
5003	511	-1625	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1626	-1627	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1628	-1629	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	-1630	-1631	S	504	QPS	ZG	0.00	638.25	0.40	638.25
5003	512	-1632	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1633	-1634	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1635	-1636	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1637	-1638	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1639	513	S	504	QPS	ZG	0.00	638.25	0.36	638.25
5003	514	515	S	507	QPS	ZG	0.00	638.25	3.25	638.25
5003	-1640	-1641	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1642	-1643	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1644	-1645	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1646	-1647	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	516	-1648	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1649	-1650	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1651	-1652	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1653	-1654	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1655	517	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1656	-1657	S	507	QPS	ZG	0.00	638.25	0.29	638.25
5003	-1657	-1658	S	507	QPS	ZG	0.00	433.55	0.36	433.55
5003	-1659	-1660	S	507	QPS	ZG	0.00	433.55	0.36	433.55
5003	-1661	-1662	S	507	QPS	ZG	0.00	433.55	0.06	433.55
5003	-1662	518	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1663	-1664	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1665	-1666	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1667	-1668	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1669	-1670	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	519	-1671	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1672	-1673	S	507	QPS	ZG	0.00	638.25	0.36	638.25



# Relazione di calcolo

5003	-1673	-1674	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1675	-1676	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1677	-1678	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5007	525	526	S	504	QPS	ZG	0.00	638.25	3.25	638.25
5007	526	527	S	504	QPS	ZG	0.00	638.25	3.25	638.25
5007	527	589	S	504	QPS	ZG	0.00	638.25	3.20	638.25
5007	589	590	S	504	QPS	ZG	0.00	638.25	0.70	638.25
5007	592	528	S	502	QPS	ZG	0.00	594.55	3.18	594.55
5007	528	529	S	502	QPS	ZG	0.00	594.55	3.25	594.55
5007	529	530	S	503	QPS	ZG	0.00	594.55	3.25	594.55
5007	530	531	S	503	QPS	ZG	0.00	594.55	3.25	594.55
5007	531	532	S	503	QPS	ZG	0.00	594.55	3.25	594.55
5007	532	593	S	503	QPS	ZG	0.00	594.55	3.25	594.55
5007	593	594	S	507	QPS	ZG	0.00	638.25	0.65	638.25
5007	596	533	S	506	QPS	ZG	0.00	594.55	3.23	594.55
5007	533	534	S	506	QPS	ZG	0.00	594.55	3.23	594.55
5009	541	542	S	505	QPS	ZG	0.00	594.55	3.25	594.55
5009	543	544	S	505	QPS	ZG	0.00	594.55	3.20	594.55
5009	546	547	S	502	QPS	ZG	0.00	594.55	3.25	594.55
5009	548	549	S	503	QPS	ZG	0.00	594.55	3.25	594.55
5009	550	551	S	503	QPS	ZG	0.00	594.55	3.25	594.55
5009	553	554	S	506	QPS	ZG	0.00	594.55	3.23	594.55
5130	-1090	-1091	-	--	M	ZG	0.00	550.00	0.36	550.00
5130	-1092	-1093	-	--	M	ZG	0.00	550.00	0.36	550.00
5130	-1094	-1095	-	--	M	ZG	0.00	550.00	0.36	550.00
5130	-1096	-1097	-	--	M	ZG	0.00	550.00	0.36	550.00
5173	563	-1098	-	--	M	ZG	0.00	1500.00	0.38	1500.00
5173	-1099	-1100	-	--	M	ZG	0.00	1500.00	0.38	1500.00
5173	-1101	-1102	-	--	M	ZG	0.00	1500.00	0.38	1500.00
5173	-1103	-1104	-	--	M	ZG	0.00	1500.00	0.38	1500.00
5216	565	-1105	-	--	M	ZG	0.00	550.00	0.36	550.00
5216	-1106	-1107	-	--	M	ZG	0.00	550.00	0.36	550.00
5216	-1108	-1109	-	--	M	ZG	0.00	550.00	0.36	550.00
5216	-1110	-1111	-	--	M	ZG	0.00	550.00	0.36	550.00
5216	-1112	566	-	--	M	ZG	0.00	550.00	0.36	550.00
5259	-1113	-1114	-	--	M	ZG	0.00	550.00	0.36	550.00
5259	-1115	-1116	-	--	M	ZG	0.00	550.00	0.36	550.00
5259	-1117	-1118	-	--	M	ZG	0.00	550.00	0.36	550.00
5259	-1119	-1120	-	--	M	ZG	0.00	550.00	0.36	550.00
5302	569	-1121	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5302	-1122	-1123	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5302	-1124	-1125	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5302	-1126	-1127	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5345	571	-1128	-	--	M	ZG	0.00	550.00	0.36	550.00
5345	-1129	-1130	-	--	M	ZG	0.00	550.00	0.36	550.00
5345	-1131	-1132	-	--	M	ZG	0.00	550.00	0.36	550.00
5345	-1133	-1134	-	--	M	ZG	0.00	550.00	0.36	550.00
5345	-1135	572	-	--	M	ZG	0.00	550.00	0.36	550.00
7003	708	-2368	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2369	-2370	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2371	-2372	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2373	-2374	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2375	709	S	702	QPS	ZG	0.00	638.25	0.36	638.25

5003	-1674	-1675	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1676	-1677	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1678	520	S	507	QPS	ZG	0.00	638.25	0.36	638.25
5007	525	526	S	505	QPS	ZG	0.00	594.55	3.25	594.55
5007	526	527	S	505	QPS	ZG	0.00	594.55	3.25	594.55
5007	527	589	S	505	QPS	ZG	0.00	594.55	3.20	594.55
5007	591	592	S	504	QPS	ZG	0.00	638.25	0.72	638.25
5007	592	528	S	504	QPS	ZG	0.00	638.25	3.18	638.25
5007	528	529	S	504	QPS	ZG	0.00	638.25	3.25	638.25
5007	529	530	S	507	QPS	ZG	0.00	638.25	3.25	638.25
5007	530	531	S	507	QPS	ZG	0.00	638.25	3.25	638.25
5007	531	532	S	507	QPS	ZG	0.00	638.25	3.25	638.25
5007	532	593	S	507	QPS	ZG	0.00	638.25	3.25	638.25
5007	595	596	S	507	QPS	ZG	0.00	638.25	0.67	638.25
5007	596	533	S	507	QPS	ZG	0.00	638.25	3.23	638.25
5007	533	534	S	507	QPS	ZG	0.00	638.25	3.23	638.25
5009	542	543	S	505	QPS	ZG	0.00	594.55	3.25	594.55
5009	545	546	S	502	QPS	ZG	0.00	594.55	3.18	594.55
5009	547	548	S	503	QPS	ZG	0.00	594.55	3.25	594.55
5009	549	550	S	503	QPS	ZG	0.00	594.55	3.25	594.55
5009	552	553	S	506	QPS	ZG	0.00	594.55	3.23	594.55
5130	561	-1090	-	--	M	ZG	0.00	550.00	0.36	550.00
5130	-1091	-1092	-	--	M	ZG	0.00	550.00	0.36	550.00
5130	-1093	-1094	-	--	M	ZG	0.00	550.00	0.36	550.00
5130	-1095	-1096	-	--	M	ZG	0.00	550.00	0.36	550.00
5130	-1097	562	-	--	M	ZG	0.00	550.00	0.36	550.00
5173	-1098	-1099	-	--	M	ZG	0.00	1500.00	0.38	1500.00
5173	-1100	-1101	-	--	M	ZG	0.00	1500.00	0.38	1500.00
5173	-1102	-1103	-	--	M	ZG	0.00	1500.00	0.38	1500.00
5173	-1104	564	-	--	M	ZG	0.00	1500.00	0.38	1500.00
5216	-1105	-1106	-	--	M	ZG	0.00	550.00	0.36	550.00
5216	-1107	-1108	-	--	M	ZG	0.00	550.00	0.36	550.00
5216	-1109	-1110	-	--	M	ZG	0.00	550.00	0.36	550.00
5216	-1111	-1112	-	--	M	ZG	0.00	550.00	0.36	550.00
5259	567	-1113	-	--	M	ZG	0.00	550.00	0.36	550.00
5259	-1114	-1115	-	--	M	ZG	0.00	550.00	0.36	550.00
5259	-1116	-1117	-	--	M	ZG	0.00	550.00	0.36	550.00
5259	-1118	-1119	-	--	M	ZG	0.00	550.00	0.36	550.00
5259	-1120	568	-	--	M	ZG	0.00	550.00	0.36	550.00
5302	-1121	-1122	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5302	-1123	-1124	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5302	-1125	-1126	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5302	-1127	570	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5345	-1128	-1129	-	--	M	ZG	0.00	550.00	0.36	550.00
5345	-1130	-1131	-	--	M	ZG	0.00	550.00	0.36	550.00
5345	-1132	-1133	-	--	M	ZG	0.00	550.00	0.36	550.00
5345	-1134	-1135	-	--	M	ZG	0.00	550.00	0.36	550.00
7003	707	708	S	702	QPS	ZG	0.00	638.25	3.25	638.25
7003	-2368	-2369	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2370	-2371	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2372	-2373	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2374	-2375	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	709	-2376	S	702	QPS	ZG	0.00	638.25	0.40	638.25



# Relazione di calcolo

7003	-2376	-2377	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2378	-2379	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2380	-2381	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2382	710	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2383	-2384	S	702	QPS	ZG	0.00	638.25	0.33	638.25
7003	-2384	-2385	S	702	QPS	ZG	0.00	433.55	0.38	433.55
7003	-2386	-2387	S	702	QPS	ZG	0.00	433.55	0.38	433.55
7003	-2388	-2389	S	702	QPS	ZG	0.00	433.55	0.03	433.55
7003	-2389	711	S	702	QPS	ZG	0.00	638.25	0.38	638.25
7003	-2390	-2391	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2392	-2393	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2394	-2395	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2396	712	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2397	-2398	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2399	-2400	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2401	-2402	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2403	-2404	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	713	714	S	706	QPS	ZG	0.00	638.25	3.25	638.25
7003	715	-2405	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2406	-2407	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2408	-2409	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2410	-2411	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2412	716	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2413	-2414	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2415	-2416	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2417	-2418	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2419	-2420	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	717	-2421	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2421	-2422	S	706	QPS	ZG	0.29	433.55	0.36	433.55
7003	-2423	-2424	S	706	QPS	ZG	0.00	433.55	0.36	433.55
7003	-2425	-2426	S	706	QPS	ZG	0.00	433.55	0.36	433.55
7003	-2426	-2427	S	706	QPS	ZG	0.06	638.25	0.36	638.25
7003	718	-2428	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2429	-2430	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2431	-2432	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2433	-2434	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2435	719	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2436	-2437	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2438	-2439	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2440	-2441	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2442	-2443	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7007	725	726	S	702	QPS	ZG	0.00	638.25	3.25	638.25
7007	726	727	S	702	QPS	ZG	0.00	638.25	3.25	638.25
7007	727	789	S	702	QPS	ZG	0.00	638.25	3.20	638.25
7007	789	790	S	702	QPS	ZG	0.00	638.25	0.70	638.25
7007	792	728	S	702	QPS	ZG	0.00	638.25	3.18	638.25
7007	728	729	S	702	QPS	ZG	0.00	638.25	3.25	638.25
7007	729	730	S	706	QPS	ZG	0.00	638.25	3.25	638.25
7007	730	731	S	706	QPS	ZG	0.00	638.25	3.25	638.25
7007	731	732	S	706	QPS	ZG	0.00	638.25	3.25	638.25
7007	732	793	S	706	QPS	ZG	0.00	638.25	3.25	638.25
7007	793	794	S	706	QPS	ZG	0.00	638.25	0.65	638.25
7007	796	733	S	705	QPS	ZG	0.00	594.55	3.23	594.55

7003	-2377	-2378	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2379	-2380	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2381	-2382	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	710	-2383	S	702	QPS	ZG	0.00	638.25	0.38	638.25
7003	-2383	-2384	S	702	QPS	ZG	0.33	433.55	0.38	433.55
7003	-2385	-2386	S	702	QPS	ZG	0.00	433.55	0.38	433.55
7003	-2387	-2388	S	702	QPS	ZG	0.00	433.55	0.38	433.55
7003	-2388	-2389	S	702	QPS	ZG	0.03	638.25	0.38	638.25
7003	711	-2390	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2391	-2392	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2393	-2394	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	-2395	-2396	S	702	QPS	ZG	0.00	638.25	0.40	638.25
7003	712	-2397	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2398	-2399	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2400	-2401	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2402	-2403	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2404	713	S	702	QPS	ZG	0.00	638.25	0.36	638.25
7003	714	715	S	706	QPS	ZG	0.00	638.25	3.25	638.25
7003	-2405	-2406	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2407	-2408	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2409	-2410	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2411	-2412	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	716	-2413	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2414	-2415	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2416	-2417	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2418	-2419	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2420	717	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2421	-2422	S	706	QPS	ZG	0.00	638.25	0.29	638.25
7003	-2422	-2423	S	706	QPS	ZG	0.00	433.55	0.36	433.55
7003	-2424	-2425	S	706	QPS	ZG	0.00	433.55	0.36	433.55
7003	-2426	-2427	S	706	QPS	ZG	0.00	433.55	0.06	433.55
7003	-2427	718	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2428	-2429	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2430	-2431	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2432	-2433	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2434	-2435	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	719	-2436	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2437	-2438	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2439	-2440	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2441	-2442	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2443	720	S	706	QPS	ZG	0.00	638.25	0.36	638.25
7007	725	726	S	704	QPS	ZG	0.00	594.55	3.25	594.55
7007	726	727	S	704	QPS	ZG	0.00	594.55	3.25	594.55
7007	727	789	S	704	QPS	ZG	0.00	594.55	3.20	594.55
7007	791	792	S	702	QPS	ZG	0.00	638.25	0.72	638.25
7007	792	728	S	703	QPS	ZG	0.00	594.55	3.18	594.55
7007	728	729	S	703	QPS	ZG	0.00	594.55	3.25	594.55
7007	729	730	S	707	QPS	ZG	0.00	594.55	3.25	594.55
7007	730	731	S	707	QPS	ZG	0.00	594.55	3.25	594.55
7007	731	732	S	707	QPS	ZG	0.00	594.55	3.25	594.55
7007	732	793	S	707	QPS	ZG	0.00	594.55	3.25	594.55
7007	795	796	S	706	QPS	ZG	0.00	638.25	0.67	638.25
7007	796	733	S	706	QPS	ZG	0.00	638.25	3.23	638.25



# Relazione di calcolo

7007	733	734	S	705	QPS	ZG	0.00	594.55	3.23	594.55
7009	741	742	S	704	QPS	ZG	0.00	594.55	3.25	594.55
7009	743	744	S	704	QPS	ZG	0.00	594.55	3.20	594.55
7009	746	747	S	703	QPS	ZG	0.00	594.55	3.25	594.55
7009	748	749	S	707	QPS	ZG	0.00	594.55	3.25	594.55
7009	750	751	S	707	QPS	ZG	0.00	594.55	3.25	594.55
7009	753	754	S	705	QPS	ZG	0.00	594.55	3.23	594.55
7130	-1855	-1856	-	---	M	ZG	0.00	550.00	0.36	550.00
7130	-1857	-1858	-	---	M	ZG	0.00	550.00	0.36	550.00
7130	-1859	-1860	-	---	M	ZG	0.00	550.00	0.36	550.00
7130	-1861	-1862	-	---	M	ZG	0.00	550.00	0.36	550.00
7173	763	-1863	-	---	M	ZG	0.00	1500.00	0.38	1500.00
7173	-1864	-1865	-	---	M	ZG	0.00	1500.00	0.38	1500.00
7173	-1866	-1867	-	---	M	ZG	0.00	1500.00	0.38	1500.00
7173	-1868	-1869	-	---	M	ZG	0.00	1500.00	0.38	1500.00
7216	765	-1870	-	---	M	ZG	0.00	550.00	0.36	550.00
7216	-1871	-1872	-	---	M	ZG	0.00	550.00	0.36	550.00
7216	-1873	-1874	-	---	M	ZG	0.00	550.00	0.36	550.00
7216	-1875	-1876	-	---	M	ZG	0.00	550.00	0.36	550.00
7216	-1877	766	-	---	M	ZG	0.00	550.00	0.36	550.00
7259	-1878	-1879	-	---	M	ZG	0.00	550.00	0.36	550.00
7259	-1880	-1881	-	---	M	ZG	0.00	550.00	0.36	550.00
7259	-1882	-1883	-	---	M	ZG	0.00	550.00	0.36	550.00
7259	-1884	-1885	-	---	M	ZG	0.00	550.00	0.36	550.00
7302	769	-1886	-	---	M	ZG	0.00	1500.00	0.36	1500.00
7302	-1887	-1888	-	---	M	ZG	0.00	1500.00	0.36	1500.00
7302	-1889	-1890	-	---	M	ZG	0.00	1500.00	0.36	1500.00
7302	-1891	-1892	-	---	M	ZG	0.00	1500.00	0.36	1500.00
7345	771	-1893	-	---	M	ZG	0.00	550.00	0.36	550.00
7345	-1894	-1895	-	---	M	ZG	0.00	550.00	0.36	550.00
7345	-1896	-1897	-	---	M	ZG	0.00	550.00	0.36	550.00
7345	-1898	-1899	-	---	M	ZG	0.00	550.00	0.36	550.00
7345	-1900	772	-	---	M	ZG	0.00	550.00	0.36	550.00
9003	908	-3133	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3134	-3135	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3136	-3137	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3138	-3139	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3140	909	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3141	-3142	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3143	-3144	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3145	-3146	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3147	910	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3148	-3149	S	904	QPS	ZG	0.00	638.25	0.33	638.25
9003	-3149	-3150	S	904	QPS	ZG	0.00	433.55	0.38	433.55
9003	-3151	-3152	S	904	QPS	ZG	0.00	433.55	0.38	433.55
9003	-3153	-3154	S	904	QPS	ZG	0.00	433.55	0.03	433.55
9003	-3154	911	S	904	QPS	ZG	0.00	638.25	0.38	638.25
9003	-3155	-3156	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3157	-3158	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3159	-3160	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3161	912	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3162	-3163	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3164	-3165	S	904	QPS	ZG	0.00	638.25	0.36	638.25

7007	733	734	S	706	QPS	ZG	0.00	638.25	3.23	638.25
7009	742	743	S	704	QPS	ZG	0.00	594.55	3.25	594.55
7009	745	746	S	703	QPS	ZG	0.00	594.55	3.18	594.55
7009	747	748	S	707	QPS	ZG	0.00	594.55	3.25	594.55
7009	749	750	S	707	QPS	ZG	0.00	594.55	3.25	594.55
7009	752	753	S	705	QPS	ZG	0.00	594.55	3.23	594.55
7130	761	-1855	-	---	M	ZG	0.00	550.00	0.36	550.00
7130	-1856	-1857	-	---	M	ZG	0.00	550.00	0.36	550.00
7130	-1858	-1859	-	---	M	ZG	0.00	550.00	0.36	550.00
7130	-1860	-1861	-	---	M	ZG	0.00	550.00	0.36	550.00
7130	-1862	762	-	---	M	ZG	0.00	550.00	0.36	550.00
7173	-1863	-1864	-	---	M	ZG	0.00	1500.00	0.38	1500.00
7173	-1865	-1866	-	---	M	ZG	0.00	1500.00	0.38	1500.00
7173	-1867	-1868	-	---	M	ZG	0.00	1500.00	0.38	1500.00
7173	-1869	764	-	---	M	ZG	0.00	1500.00	0.38	1500.00
7216	-1870	-1871	-	---	M	ZG	0.00	550.00	0.36	550.00
7216	-1872	-1873	-	---	M	ZG	0.00	550.00	0.36	550.00
7216	-1874	-1875	-	---	M	ZG	0.00	550.00	0.36	550.00
7216	-1876	-1877	-	---	M	ZG	0.00	550.00	0.36	550.00
7259	767	-1878	-	---	M	ZG	0.00	550.00	0.36	550.00
7259	-1879	-1880	-	---	M	ZG	0.00	550.00	0.36	550.00
7259	-1881	-1882	-	---	M	ZG	0.00	550.00	0.36	550.00
7259	-1883	-1884	-	---	M	ZG	0.00	550.00	0.36	550.00
7259	-1885	768	-	---	M	ZG	0.00	550.00	0.36	550.00
7302	-1886	-1887	-	---	M	ZG	0.00	1500.00	0.36	1500.00
7302	-1888	-1889	-	---	M	ZG	0.00	1500.00	0.36	1500.00
7302	-1890	-1891	-	---	M	ZG	0.00	1500.00	0.36	1500.00
7302	-1892	770	-	---	M	ZG	0.00	1500.00	0.36	1500.00
7345	-1893	-1894	-	---	M	ZG	0.00	550.00	0.36	550.00
7345	-1895	-1896	-	---	M	ZG	0.00	550.00	0.36	550.00
7345	-1897	-1898	-	---	M	ZG	0.00	550.00	0.36	550.00
7345	-1899	-1900	-	---	M	ZG	0.00	550.00	0.36	550.00
9003	907	908	S	904	QPS	ZG	0.00	638.25	3.25	638.25
9003	-3133	-3134	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3135	-3136	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3137	-3138	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3139	-3140	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	909	-3141	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3142	-3143	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3144	-3145	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3146	-3147	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	910	-3148	S	904	QPS	ZG	0.00	638.25	0.38	638.25
9003	-3148	-3149	S	904	QPS	ZG	0.33	433.55	0.38	433.55
9003	-3150	-3151	S	904	QPS	ZG	0.00	433.55	0.38	433.55
9003	-3152	-3153	S	904	QPS	ZG	0.00	433.55	0.38	433.55
9003	-3153	-3154	S	904	QPS	ZG	0.03	638.25	0.38	638.25
9003	911	-3155	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3156	-3157	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3158	-3159	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	-3160	-3161	S	904	QPS	ZG	0.00	638.25	0.40	638.25
9003	912	-3162	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3163	-3164	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3165	-3166	S	904	QPS	ZG	0.00	638.25	0.36	638.25



# Relazione di calcolo

9003	-3166	-3167	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3168	-3169	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	913	914	S	907	QPS	ZG	0.00	638.25	3.25	638.25
9003	915	-3170	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3171	-3172	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3173	-3174	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3175	-3176	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3177	916	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3178	-3179	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3180	-3181	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3182	-3183	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3184	-3185	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	917	-3186	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3186	-3187	S	907	QPS	ZG	0.29	433.55	0.36	433.55
9003	-3188	-3189	S	907	QPS	ZG	0.00	433.55	0.36	433.55
9003	-3190	-3191	S	907	QPS	ZG	0.00	433.55	0.36	433.55
9003	-3191	-3192	S	907	QPS	ZG	0.06	638.25	0.36	638.25
9003	918	-3193	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3194	-3195	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3196	-3197	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3198	-3199	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3200	919	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3201	-3202	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3203	-3204	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3205	-3206	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3207	-3208	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9007	925	926	S	904	QPS	ZG	0.00	638.25	3.25	638.25
9007	926	927	S	904	QPS	ZG	0.00	638.25	3.25	638.25
9007	927	989	S	904	QPS	ZG	0.00	638.25	3.20	638.25
9007	989	990	S	904	QPS	ZG	0.00	638.25	0.70	638.25
9007	992	928	S	902	QPS	ZG	0.00	594.55	3.18	594.55
9007	928	929	S	902	QPS	ZG	0.00	594.55	3.25	594.55
9007	929	930	S	903	QPS	ZG	0.00	594.55	3.25	594.55
9007	930	931	S	903	QPS	ZG	0.00	594.55	3.25	594.55
9007	931	932	S	903	QPS	ZG	0.00	594.55	3.25	594.55
9007	932	993	S	903	QPS	ZG	0.00	594.55	3.25	594.55
9007	993	994	S	907	QPS	ZG	0.00	638.25	0.65	638.25
9007	996	933	S	906	QPS	ZG	0.00	594.55	3.23	594.55
9007	933	934	S	906	QPS	ZG	0.00	594.55	3.23	594.55
9009	941	942	S	905	QPS	ZG	0.00	594.55	3.25	594.55
9009	943	944	S	905	QPS	ZG	0.00	594.55	3.20	594.55
9009	946	947	S	902	QPS	ZG	0.00	594.55	3.25	594.55
9009	948	949	S	903	QPS	ZG	0.00	594.55	3.25	594.55
9009	950	951	S	903	QPS	ZG	0.00	594.55	3.25	594.55
9009	953	954	S	906	QPS	ZG	0.00	594.55	3.23	594.55
9130	-2620	-2621	--	M	ZG	0.00	550.00	0.36	550.00	
9130	-2622	-2623	--	M	ZG	0.00	550.00	0.36	550.00	
9130	-2624	-2625	--	M	ZG	0.00	550.00	0.36	550.00	
9130	-2626	-2627	--	M	ZG	0.00	550.00	0.36	550.00	
9173	963	-2628	--	M	ZG	0.00	1500.00	0.38	1500.00	
9173	-2629	-2630	--	M	ZG	0.00	1500.00	0.38	1500.00	
9173	-2631	-2632	--	M	ZG	0.00	1500.00	0.38	1500.00	
9173	-2633	-2634	--	M	ZG	0.00	1500.00	0.38	1500.00	

9003	-3167	-3168	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3169	913	S	904	QPS	ZG	0.00	638.25	0.36	638.25
9003	914	915	S	907	QPS	ZG	0.00	638.25	3.25	638.25
9003	-3170	-3171	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3172	-3173	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3174	-3175	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3176	-3177	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	916	-3178	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3179	-3180	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3181	-3182	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3183	-3184	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3185	917	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3186	-3187	S	907	QPS	ZG	0.00	638.25	0.29	638.25
9003	-3187	-3188	S	907	QPS	ZG	0.00	433.55	0.36	433.55
9003	-3189	-3190	S	907	QPS	ZG	0.00	433.55	0.36	433.55
9003	-3191	-3192	S	907	QPS	ZG	0.00	433.55	0.06	433.55
9003	-3192	918	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3193	-3194	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3195	-3196	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3197	-3198	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3199	-3200	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	919	-3201	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3202	-3203	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3204	-3205	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3206	-3207	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3208	920	S	907	QPS	ZG	0.00	638.25	0.36	638.25
9007	925	926	S	905	QPS	ZG	0.00	594.55	3.25	594.55
9007	926	927	S	905	QPS	ZG	0.00	594.55	3.25	594.55
9007	927	989	S	905	QPS	ZG	0.00	594.55	3.20	594.55
9007	991	992	S	904	QPS	ZG	0.00	638.25	0.72	638.25
9007	992	928	S	904	QPS	ZG	0.00	638.25	3.18	638.25
9007	928	929	S	904	QPS	ZG	0.00	638.25	3.25	638.25
9007	929	930	S	907	QPS	ZG	0.00	638.25	3.25	638.25
9007	930	931	S	907	QPS	ZG	0.00	638.25	3.25	638.25
9007	931	932	S	907	QPS	ZG	0.00	638.25	3.25	638.25
9007	932	993	S	907	QPS	ZG	0.00	638.25	3.25	638.25
9007	995	996	S	907	QPS	ZG	0.00	638.25	0.67	638.25
9007	996	933	S	907	QPS	ZG	0.00	638.25	3.23	638.25
9007	933	934	S	907	QPS	ZG	0.00	638.25	3.23	638.25
9009	942	943	S	905	QPS	ZG	0.00	594.55	3.25	594.55
9009	945	946	S	902	QPS	ZG	0.00	594.55	3.18	594.55
9009	947	948	S	903	QPS	ZG	0.00	594.55	3.25	594.55
9009	949	950	S	903	QPS	ZG	0.00	594.55	3.25	594.55
9009	952	953	S	906	QPS	ZG	0.00	594.55	3.23	594.55
9130	961	-2620	--	M	ZG	0.00	550.00	0.36	550.00	
9130	-2621	-2622	--	M	ZG	0.00	550.00	0.36	550.00	
9130	-2623	-2624	--	M	ZG	0.00	550.00	0.36	550.00	
9130	-2625	-2626	--	M	ZG	0.00	550.00	0.36	550.00	
9130	-2627	962	--	M	ZG	0.00	550.00	0.36	550.00	
9173	-2628	-2629	--	M	ZG	0.00	1500.00	0.38	1500.00	
9173	-2630	-2631	--	M	ZG	0.00	1500.00	0.38	1500.00	
9173	-2632	-2633	--	M	ZG	0.00	1500.00	0.38	1500.00	
9173	-2634	964	--	M	ZG	0.00	1500.00	0.38	1500.00	



# Relazione di calcolo

9216	965	-2635	--	M	ZG	0.00	550.00	0.36	550.00	
9216	-2636	-2637	--	M	ZG	0.00	550.00	0.36	550.00	
9216	-2638	-2639	--	M	ZG	0.00	550.00	0.36	550.00	
9216	-2640	-2641	--	M	ZG	0.00	550.00	0.36	550.00	
9216	-2642	966	--	M	ZG	0.00	550.00	0.36	550.00	
9259	-2643	-2644	--	M	ZG	0.00	550.00	0.36	550.00	
9259	-2645	-2646	--	M	ZG	0.00	550.00	0.36	550.00	
9259	-2647	-2648	--	M	ZG	0.00	550.00	0.36	550.00	
9259	-2649	-2650	--	M	ZG	0.00	550.00	0.36	550.00	
9302	969	-2651	--	M	ZG	0.00	1500.00	0.36	1500.00	
9302	-2652	-2653	--	M	ZG	0.00	1500.00	0.36	1500.00	
9302	-2654	-2655	--	M	ZG	0.00	1500.00	0.36	1500.00	
9302	-2656	-2657	--	M	ZG	0.00	1500.00	0.36	1500.00	
9345	971	-2658	--	M	ZG	0.00	550.00	0.36	550.00	
9345	-2659	-2660	--	M	ZG	0.00	550.00	0.36	550.00	
9345	-2661	-2662	--	M	ZG	0.00	550.00	0.36	550.00	
9345	-2663	-2664	--	M	ZG	0.00	550.00	0.36	550.00	
9345	-2665	972	--	M	ZG	0.00	550.00	0.36	550.00	
11003	1108	-3898	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3899	-3900	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3901	-3902	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3903	-3904	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3905	1109	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3906	-3907	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3908	-3909	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3910	-3911	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3912	1110	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3913	-3914	S	1105	QPS	ZG	0.00	638.25	0.33	638.25
11003	-3914	-3915	S	1105	QPS	ZG	0.00	433.55	0.38	433.55
11003	-3916	-3917	S	1105	QPS	ZG	0.00	433.55	0.38	433.55
11003	-3918	-3919	S	1105	QPS	ZG	0.00	433.55	0.03	433.55
11003	-3919	1111	S	1105	QPS	ZG	0.00	638.25	0.38	638.25
11003	-3920	-3921	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3922	-3923	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3924	-3925	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3926	1112	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3927	-3928	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3929	-3930	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3931	-3932	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3933	-3934	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	1113	1114	S	1108	QPS	ZG	0.00	638.25	3.25	638.25
11003	1115	-3935	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3936	-3937	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3938	-3939	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3940	-3941	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3942	1116	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3943	-3944	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3945	-3946	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3947	-3948	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3949	-3950	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	1117	-3951	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3951	-3952	S	1108	QPS	ZG	0.29	433.55	0.36	433.55
11003	-3953	-3954	S	1108	QPS	ZG	0.00	433.55	0.36	433.55

9216	-2635	-2636	--	M	ZG	0.00	550.00	0.36	550.00	
9216	-2637	-2638	--	M	ZG	0.00	550.00	0.36	550.00	
9216	-2639	-2640	--	M	ZG	0.00	550.00	0.36	550.00	
9216	-2641	-2642	--	M	ZG	0.00	550.00	0.36	550.00	
9259	967	-2643	--	M	ZG	0.00	550.00	0.36	550.00	
9259	-2644	-2645	--	M	ZG	0.00	550.00	0.36	550.00	
9259	-2646	-2647	--	M	ZG	0.00	550.00	0.36	550.00	
9259	-2648	-2649	--	M	ZG	0.00	550.00	0.36	550.00	
9259	-2650	968	--	M	ZG	0.00	550.00	0.36	550.00	
9302	-2651	-2652	--	M	ZG	0.00	1500.00	0.36	1500.00	
9302	-2653	-2654	--	M	ZG	0.00	1500.00	0.36	1500.00	
9302	-2655	-2656	--	M	ZG	0.00	1500.00	0.36	1500.00	
9302	-2657	970	--	M	ZG	0.00	1500.00	0.36	1500.00	
9345	-2658	-2659	--	M	ZG	0.00	550.00	0.36	550.00	
9345	-2660	-2661	--	M	ZG	0.00	550.00	0.36	550.00	
9345	-2662	-2663	--	M	ZG	0.00	550.00	0.36	550.00	
9345	-2664	-2665	--	M	ZG	0.00	550.00	0.36	550.00	
11003	1107	1108	S	1105	QPS	ZG	0.00	638.25	3.25	638.25
11003	-3898	-3899	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3900	-3901	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3902	-3903	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3904	-3905	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	1109	-3906	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3907	-3908	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3909	-3910	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3911	-3912	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	1110	-3913	S	1105	QPS	ZG	0.00	638.25	0.38	638.25
11003	-3913	-3914	S	1105	QPS	ZG	0.33	433.55	0.38	433.55
11003	-3915	-3916	S	1105	QPS	ZG	0.00	433.55	0.38	433.55
11003	-3917	-3918	S	1105	QPS	ZG	0.00	433.55	0.38	433.55
11003	-3918	-3919	S	1105	QPS	ZG	0.03	638.25	0.38	638.25
11003	1111	-3920	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3921	-3922	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3923	-3924	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	-3925	-3926	S	1105	QPS	ZG	0.00	638.25	0.40	638.25
11003	1112	-3927	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3928	-3929	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3930	-3931	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3932	-3933	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3934	1113	S	1105	QPS	ZG	0.00	638.25	0.36	638.25
11003	1114	1115	S	1108	QPS	ZG	0.00	638.25	3.25	638.25
11003	-3935	-3936	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3937	-3938	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3939	-3940	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3941	-3942	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	1116	-3943	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3944	-3945	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3946	-3947	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3948	-3949	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3950	1117	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3951	-3952	S	1108	QPS	ZG	0.00	638.25	0.29	638.25
11003	-3952	-3953	S	1108	QPS	ZG	0.00	433.55	0.36	433.55
11003	-3954	-3955	S	1108	QPS	ZG	0.00	433.55	0.36	433.55



# Relazione di calcolo

11003	-3955	-3956	S	1108	QPS	ZG	0.00	433.55	0.36	433.55
11003	-3956	-3957	S	1108	QPS	ZG	0.06	638.25	0.36	638.25
11003	1118	-3958	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3959	-3960	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3961	-3962	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3963	-3964	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3965	1119	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3966	-3967	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3968	-3969	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3970	-3971	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3972	-3973	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11007	1125	1126	S	1105	QPS	ZG	0.00	638.25	3.25	638.25
11007	1126	1127	S	1105	QPS	ZG	0.00	638.25	3.25	638.25
11007	1127	1189	S	1105	QPS	ZG	0.00	638.25	3.20	638.25
11007	1189	1190	S	1105	QPS	ZG	0.00	638.25	0.70	638.25
11007	1192	1128	S	1103	QPS	ZG	0.00	594.55	3.18	594.55
11007	1128	1129	S	1103	QPS	ZG	0.00	594.55	3.25	594.55
11007	1129	1130	S	1104	QPS	ZG	0.00	594.55	3.25	594.55
11007	1130	1131	S	1104	QPS	ZG	0.00	594.55	3.25	594.55
11007	1131	1132	S	1104	QPS	ZG	0.00	594.55	3.25	594.55
11007	1132	1193	S	1104	QPS	ZG	0.00	594.55	3.25	594.55
11007	1193	1194	S	1108	QPS	ZG	0.00	638.25	0.65	638.25
11007	1196	1133	S	1107	QPS	ZG	0.00	594.55	3.23	594.55
11007	1133	1134	S	1107	QPS	ZG	0.00	594.55	3.23	594.55
11009	1141	1142	S	1106	QPS	ZG	0.00	594.55	3.25	594.55
11009	1143	1144	S	1106	QPS	ZG	0.00	594.55	3.20	594.55
11009	1146	1147	S	1103	QPS	ZG	0.00	594.55	3.25	594.55
11009	1148	1149	S	1104	QPS	ZG	0.00	594.55	3.25	594.55
11009	1150	1151	S	1104	QPS	ZG	0.00	594.55	3.25	594.55
11009	1153	1154	S	1107	QPS	ZG	0.00	594.55	3.23	594.55
11130	-3385	-3386	--	M	ZG	0.00	550.00	0.36	550.00	
11130	-3387	-3388	--	M	ZG	0.00	550.00	0.36	550.00	
11130	-3389	-3390	--	M	ZG	0.00	550.00	0.36	550.00	
11130	-3391	-3392	--	M	ZG	0.00	550.00	0.36	550.00	
11173	1163	-3393	--	M	ZG	0.00	1500.00	0.38	1500.00	
11173	-3394	-3395	--	M	ZG	0.00	1500.00	0.38	1500.00	
11173	-3396	-3397	--	M	ZG	0.00	1500.00	0.38	1500.00	
11173	-3398	-3399	--	M	ZG	0.00	1500.00	0.38	1500.00	
11216	1165	-3400	--	M	ZG	0.00	550.00	0.36	550.00	
11216	-3401	-3402	--	M	ZG	0.00	550.00	0.36	550.00	
11216	-3403	-3404	--	M	ZG	0.00	550.00	0.36	550.00	
11216	-3405	-3406	--	M	ZG	0.00	550.00	0.36	550.00	
11216	-3407	1166	--	M	ZG	0.00	550.00	0.36	550.00	
11259	-3408	-3409	--	M	ZG	0.00	550.00	0.36	550.00	
11259	-3410	-3411	--	M	ZG	0.00	550.00	0.36	550.00	
11259	-3412	-3413	--	M	ZG	0.00	550.00	0.36	550.00	
11259	-3414	-3415	--	M	ZG	0.00	550.00	0.36	550.00	
11302	1169	-3416	--	M	ZG	0.00	1500.00	0.36	1500.00	
11302	-3417	-3418	--	M	ZG	0.00	1500.00	0.36	1500.00	
11302	-3419	-3420	--	M	ZG	0.00	1500.00	0.36	1500.00	
11302	-3421	-3422	--	M	ZG	0.00	1500.00	0.36	1500.00	
11345	1171	-3423	--	M	ZG	0.00	550.00	0.36	550.00	
11345	-3424	-3425	--	M	ZG	0.00	550.00	0.36	550.00	

11003	-3956	-3957	S	1108	QPS	ZG	0.00	433.55	0.06	433.55
11003	-3957	1118	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3958	-3959	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3960	-3961	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3962	-3963	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3964	-3965	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	1119	-3966	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3967	-3968	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3969	-3970	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3971	-3972	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3973	1120	S	1108	QPS	ZG	0.00	638.25	0.36	638.25
11007	1125	1126	S	1106	QPS	ZG	0.00	594.55	3.25	594.55
11007	1126	1127	S	1106	QPS	ZG	0.00	594.55	3.25	594.55
11007	1127	1189	S	1106	QPS	ZG	0.00	594.55	3.20	594.55
11007	1191	1192	S	1105	QPS	ZG	0.00	638.25	0.72	638.25
11007	1192	1128	S	1105	QPS	ZG	0.00	638.25	3.18	638.25
11007	1128	1129	S	1105	QPS	ZG	0.00	638.25	3.25	638.25
11007	1129	1130	S	1108	QPS	ZG	0.00	638.25	3.25	638.25
11007	1130	1131	S	1108	QPS	ZG	0.00	638.25	3.25	638.25
11007	1131	1132	S	1108	QPS	ZG	0.00	638.25	3.25	638.25
11007	1132	1193	S	1108	QPS	ZG	0.00	638.25	3.25	638.25
11007	1195	1196	S	1108	QPS	ZG	0.00	638.25	0.67	638.25
11007	1196	1133	S	1108	QPS	ZG	0.00	638.25	3.23	638.25
11007	1133	1134	S	1108	QPS	ZG	0.00	638.25	3.23	638.25
11009	1142	1143	S	1106	QPS	ZG	0.00	594.55	3.25	594.55
11009	1145	1146	S	1103	QPS	ZG	0.00	594.55	3.18	594.55
11009	1147	1148	S	1104	QPS	ZG	0.00	594.55	3.25	594.55
11009	1149	1150	S	1104	QPS	ZG	0.00	594.55	3.25	594.55
11009	1152	1153	S	1107	QPS	ZG	0.00	594.55	3.23	594.55
11130	1161	-3385	--	M	ZG	0.00	550.00	0.36	550.00	
11130	-3386	-3387	--	M	ZG	0.00	550.00	0.36	550.00	
11130	-3388	-3389	--	M	ZG	0.00	550.00	0.36	550.00	
11130	-3390	-3391	--	M	ZG	0.00	550.00	0.36	550.00	
11130	-3392	1162	--	M	ZG	0.00	550.00	0.36	550.00	
11173	-3393	-3394	--	M	ZG	0.00	1500.00	0.38	1500.00	
11173	-3395	-3396	--	M	ZG	0.00	1500.00	0.38	1500.00	
11173	-3397	-3398	--	M	ZG	0.00	1500.00	0.38	1500.00	
11173	-3399	1164	--	M	ZG	0.00	1500.00	0.38	1500.00	
11216	-3400	-3401	--	M	ZG	0.00	550.00	0.36	550.00	
11216	-3402	-3403	--	M	ZG	0.00	550.00	0.36	550.00	
11216	-3404	-3405	--	M	ZG	0.00	550.00	0.36	550.00	
11216	-3406	-3407	--	M	ZG	0.00	550.00	0.36	550.00	
11259	1167	-3408	--	M	ZG	0.00	550.00	0.36	550.00	
11259	-3409	-3410	--	M	ZG	0.00	550.00	0.36	550.00	
11259	-3411	-3412	--	M	ZG	0.00	550.00	0.36	550.00	
11259	-3413	-3414	--	M	ZG	0.00	550.00	0.36	550.00	
11259	-3415	1168	--	M	ZG	0.00	550.00	0.36	550.00	
11302	-3416	-3417	--	M	ZG	0.00	1500.00	0.36	1500.00	
11302	-3418	-3419	--	M	ZG	0.00	1500.00	0.36	1500.00	
11302	-3420	-3421	--	M	ZG	0.00	1500.00	0.36	1500.00	
11302	-3422	1170	--	M	ZG	0.00	1500.00	0.36	1500.00	
11345	-3423	-3424	--	M	ZG	0.00	550.00	0.36	550.00	
11345	-3425	-3426	--	M	ZG	0.00	550.00	0.36	550.00	



# Relazione di calcolo

11345	-3426	-3427	--	M	ZG	0.00	550.00	0.36	550.00	
11345	-3428	-3429	--	M	ZG	0.00	550.00	0.36	550.00	
11345	-3430	1172	--	M	ZG	0.00	550.00	0.36	550.00	
13003	1308	-4663	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4664	-4665	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4666	-4667	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4668	-4669	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4670	1309	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4671	-4672	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4673	-4674	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4675	-4676	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4677	1310	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4678	-4679	S	1305	QPS	ZG	0.00	638.25	0.33	638.25
13003	-4679	-4680	S	1305	QPS	ZG	0.00	433.55	0.38	433.55
13003	-4681	-4682	S	1305	QPS	ZG	0.00	433.55	0.38	433.55
13003	-4683	-4684	S	1305	QPS	ZG	0.00	433.55	0.03	433.55
13003	-4684	1311	S	1305	QPS	ZG	0.00	638.25	0.38	638.25
13003	-4685	-4686	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4687	-4688	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4689	-4690	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4691	1312	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4692	-4693	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4694	-4695	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4696	-4697	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4698	-4699	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	1313	1314	S	1308	QPS	ZG	0.00	638.25	3.25	638.25
13003	1315	-4700	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4701	-4702	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4703	-4704	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4705	-4706	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4707	1316	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4708	-4709	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4710	-4711	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4712	-4713	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4714	-4715	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	1317	-4716	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4716	-4717	S	1308	QPS	ZG	0.29	433.55	0.36	433.55
13003	-4718	-4719	S	1308	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4720	-4721	S	1308	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4721	-4722	S	1308	QPS	ZG	0.06	638.25	0.36	638.25
13003	1318	-4723	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4724	-4725	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4726	-4727	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4728	-4729	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4730	1319	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4731	-4732	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4733	-4734	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4735	-4736	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4737	-4738	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13007	1325	1326	S	1305	QPS	ZG	0.00	638.25	3.25	638.25
13007	1326	1327	S	1305	QPS	ZG	0.00	638.25	3.25	638.25
13007	1327	1389	S	1305	QPS	ZG	0.00	638.25	3.20	638.25
13007	1389	1390	S	1305	QPS	ZG	0.00	638.25	0.70	638.25

11345	-3427	-3428	--	M	ZG	0.00	550.00	0.36	550.00	
11345	-3429	-3430	--	M	ZG	0.00	550.00	0.36	550.00	
13003	1307	1308	S	1305	QPS	ZG	0.00	638.25	3.25	638.25
13003	-4663	-4664	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4665	-4666	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4667	-4668	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4669	-4670	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	1309	-4671	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4672	-4673	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4674	-4675	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4676	-4677	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	1310	-4678	S	1305	QPS	ZG	0.00	638.25	0.38	638.25
13003	-4678	-4679	S	1305	QPS	ZG	0.33	433.55	0.38	433.55
13003	-4680	-4681	S	1305	QPS	ZG	0.00	433.55	0.38	433.55
13003	-4682	-4683	S	1305	QPS	ZG	0.00	433.55	0.38	433.55
13003	-4683	-4684	S	1305	QPS	ZG	0.03	638.25	0.38	638.25
13003	1311	-4685	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4686	-4687	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4688	-4689	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	-4690	-4691	S	1305	QPS	ZG	0.00	638.25	0.40	638.25
13003	1312	-4692	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4693	-4694	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4695	-4696	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4697	-4698	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4699	1313	S	1305	QPS	ZG	0.00	638.25	0.36	638.25
13003	1314	1315	S	1308	QPS	ZG	0.00	638.25	3.25	638.25
13003	-4700	-4701	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4702	-4703	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4704	-4705	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4706	-4707	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	1316	-4708	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4709	-4710	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4711	-4712	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4713	-4714	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4715	1317	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4716	-4717	S	1308	QPS	ZG	0.00	638.25	0.29	638.25
13003	-4717	-4718	S	1308	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4719	-4720	S	1308	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4721	-4722	S	1308	QPS	ZG	0.00	433.55	0.06	433.55
13003	-4722	1318	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4723	-4724	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4725	-4726	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4727	-4728	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4729	-4730	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	1319	-4731	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4732	-4733	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4734	-4735	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4736	-4737	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4738	1320	S	1308	QPS	ZG	0.00	638.25	0.36	638.25
13007	1325	1326	S	1306	QPS	ZG	0.00	594.55	3.25	594.55
13007	1326	1327	S	1306	QPS	ZG	0.00	594.55	3.25	594.55
13007	1327	1389	S	1306	QPS	ZG	0.00	594.55	3.20	594.55
13007	1391	1392	S	1305	QPS	ZG	0.00	638.25	0.72	638.25



# Relazione di calcolo

13007	1392	1328	S	1303	QPS	ZG	0.00	594.55	3.18	594.55
13007	1328	1329	S	1303	QPS	ZG	0.00	594.55	3.25	594.55
13007	1329	1330	S	1304	QPS	ZG	0.00	594.55	3.25	594.55
13007	1330	1331	S	1304	QPS	ZG	0.00	594.55	3.25	594.55
13007	1331	1332	S	1304	QPS	ZG	0.00	594.55	3.25	594.55
13007	1332	1393	S	1304	QPS	ZG	0.00	594.55	3.25	594.55
13007	1393	1394	S	1308	QPS	ZG	0.00	638.25	0.65	638.25
13007	1396	1333	S	1307	QPS	ZG	0.00	594.55	3.23	594.55
13007	1333	1334	S	1307	QPS	ZG	0.00	594.55	3.23	594.55
13009	1341	1342	S	1306	QPS	ZG	0.00	594.55	3.25	594.55
13009	1343	1344	S	1306	QPS	ZG	0.00	594.55	3.20	594.55
13009	1346	1347	S	1303	QPS	ZG	0.00	594.55	3.25	594.55
13009	1348	1349	S	1304	QPS	ZG	0.00	594.55	3.25	594.55
13009	1350	1351	S	1304	QPS	ZG	0.00	594.55	3.25	594.55
13009	1353	1354	S	1307	QPS	ZG	0.00	594.55	3.23	594.55
13130	-4150	-4151	--	M	ZG	0.00	550.00	0.36	550.00	
13130	-4152	-4153	--	M	ZG	0.00	550.00	0.36	550.00	
13130	-4154	-4155	--	M	ZG	0.00	550.00	0.36	550.00	
13130	-4156	-4157	--	M	ZG	0.00	550.00	0.36	550.00	
13173	1363	-4158	--	M	ZG	0.00	1500.00	0.38	1500.00	
13173	-4159	-4160	--	M	ZG	0.00	1500.00	0.38	1500.00	
13173	-4161	-4162	--	M	ZG	0.00	1500.00	0.38	1500.00	
13173	-4163	-4164	--	M	ZG	0.00	1500.00	0.38	1500.00	
13216	1365	-4165	--	M	ZG	0.00	550.00	0.36	550.00	
13216	-4166	-4167	--	M	ZG	0.00	550.00	0.36	550.00	
13216	-4168	-4169	--	M	ZG	0.00	550.00	0.36	550.00	
13216	-4170	-4171	--	M	ZG	0.00	550.00	0.36	550.00	
13216	-4172	1366	--	M	ZG	0.00	550.00	0.36	550.00	
13259	-4173	-4174	--	M	ZG	0.00	550.00	0.36	550.00	
13259	-4175	-4176	--	M	ZG	0.00	550.00	0.36	550.00	
13259	-4177	-4178	--	M	ZG	0.00	550.00	0.36	550.00	
13259	-4179	-4180	--	M	ZG	0.00	550.00	0.36	550.00	
13302	1369	-4181	--	M	ZG	0.00	1500.00	0.36	1500.00	
13302	-4182	-4183	--	M	ZG	0.00	1500.00	0.36	1500.00	
13302	-4184	-4185	--	M	ZG	0.00	1500.00	0.36	1500.00	
13302	-4186	-4187	--	M	ZG	0.00	1500.00	0.36	1500.00	
13345	1371	-4188	--	M	ZG	0.00	550.00	0.36	550.00	
13345	-4189	-4190	--	M	ZG	0.00	550.00	0.36	550.00	
13345	-4191	-4192	--	M	ZG	0.00	550.00	0.36	550.00	
13345	-4193	-4194	--	M	ZG	0.00	550.00	0.36	550.00	
13345	-4195	1372	--	M	ZG	0.00	550.00	0.36	550.00	
15003	1508	-5428	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5429	-5430	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5431	-5432	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5433	-5434	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5435	1509	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5436	-5437	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5438	-5439	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5440	-5441	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5442	1510	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5443	-5444	S	1505	QPS	ZG	0.00	638.25	0.33	638.25
15003	-5444	-5445	S	1505	QPS	ZG	0.00	433.55	0.38	433.55
15003	-5446	-5447	S	1505	QPS	ZG	0.00	433.55	0.38	433.55

13007	1392	1328	S	1305	QPS	ZG	0.00	638.25	3.18	638.25
13007	1328	1329	S	1305	QPS	ZG	0.00	638.25	3.25	638.25
13007	1329	1330	S	1308	QPS	ZG	0.00	638.25	3.25	638.25
13007	1330	1331	S	1308	QPS	ZG	0.00	638.25	3.25	638.25
13007	1331	1332	S	1308	QPS	ZG	0.00	638.25	3.25	638.25
13007	1332	1393	S	1308	QPS	ZG	0.00	638.25	3.25	638.25
13007	1395	1396	S	1308	QPS	ZG	0.00	638.25	0.67	638.25
13007	1396	1333	S	1308	QPS	ZG	0.00	638.25	3.23	638.25
13007	1333	1334	S	1308	QPS	ZG	0.00	638.25	3.23	638.25
13009	1342	1343	S	1306	QPS	ZG	0.00	594.55	3.25	594.55
13009	1345	1346	S	1303	QPS	ZG	0.00	594.55	3.18	594.55
13009	1347	1348	S	1304	QPS	ZG	0.00	594.55	3.25	594.55
13009	1349	1350	S	1304	QPS	ZG	0.00	594.55	3.25	594.55
13009	1352	1353	S	1307	QPS	ZG	0.00	594.55	3.23	594.55
13130	1361	-4150	-	M	ZG	0.00	550.00	0.36	550.00	
13130	-4151	-4152	-	M	ZG	0.00	550.00	0.36	550.00	
13130	-4153	-4154	-	M	ZG	0.00	550.00	0.36	550.00	
13130	-4155	-4156	-	M	ZG	0.00	550.00	0.36	550.00	
13130	-4157	1362	-	M	ZG	0.00	550.00	0.36	550.00	
13173	-4158	-4159	-	M	ZG	0.00	1500.00	0.38	1500.00	
13173	-4160	-4161	-	M	ZG	0.00	1500.00	0.38	1500.00	
13173	-4162	-4163	-	M	ZG	0.00	1500.00	0.38	1500.00	
13173	-4164	1364	-	M	ZG	0.00	1500.00	0.38	1500.00	
13216	-4165	-4166	-	M	ZG	0.00	550.00	0.36	550.00	
13216	-4167	-4168	-	M	ZG	0.00	550.00	0.36	550.00	
13216	-4169	-4170	-	M	ZG	0.00	550.00	0.36	550.00	
13216	-4171	-4172	-	M	ZG	0.00	550.00	0.36	550.00	
13259	1367	-4173	-	M	ZG	0.00	550.00	0.36	550.00	
13259	-4174	-4175	-	M	ZG	0.00	550.00	0.36	550.00	
13259	-4176	-4177	-	M	ZG	0.00	550.00	0.36	550.00	
13259	-4178	-4179	-	M	ZG	0.00	550.00	0.36	550.00	
13259	-4180	1368	-	M	ZG	0.00	550.00	0.36	550.00	
13302	-4181	-4182	-	M	ZG	0.00	1500.00	0.36	1500.00	
13302	-4183	-4184	-	M	ZG	0.00	1500.00	0.36	1500.00	
13302	-4185	-4186	-	M	ZG	0.00	1500.00	0.36	1500.00	
13302	-4187	1370	-	M	ZG	0.00	1500.00	0.36	1500.00	
13345	-4188	-4189	-	M	ZG	0.00	550.00	0.36	550.00	
13345	-4190	-4191	-	M	ZG	0.00	550.00	0.36	550.00	
13345	-4192	-4193	-	M	ZG	0.00	550.00	0.36	550.00	
13345	-4194	-4195	-	M	ZG	0.00	550.00	0.36	550.00	
15003	1507	1508	S	1505	QPS	ZG	0.00	638.25	3.25	638.25
15003	-5428	-5429	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5430	-5431	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5432	-5433	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5434	-5435	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	1509	-5436	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5437	-5438	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5439	-5440	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5441	-5442	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	1510	-5443	S	1505	QPS	ZG	0.00	638.25	0.38	638.25
15003	-5443	-5444	S	1505	QPS	ZG	0.33	433.55	0.38	433.55
15003	-5445	-5446	S	1505	QPS	ZG	0.00	433.55	0.38	433.55
15003	-5447	-5448	S	1505	QPS	ZG	0.00	433.55	0.38	433.55



# Relazione di calcolo

15003	-5448	-5449	S	1505	QPS	ZG	0.00	433.55	0.03	433.55
15003	-5449	1511	S	1505	QPS	ZG	0.00	638.25	0.38	638.25
15003	-5450	-5451	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5452	-5453	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5454	-5455	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5456	1512	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5457	-5458	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5459	-5460	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5461	-5462	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5463	-5464	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	1513	1514	S	1508	QPS	ZG	0.00	638.25	3.25	638.25
15003	1515	-5465	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5466	-5467	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5468	-5469	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5470	-5471	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5472	1516	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5473	-5474	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5475	-5476	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5477	-5478	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5479	-5480	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	1517	-5481	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5481	-5482	S	1508	QPS	ZG	0.29	433.55	0.36	433.55
15003	-5483	-5484	S	1508	QPS	ZG	0.00	433.55	0.36	433.55
15003	-5485	-5486	S	1508	QPS	ZG	0.00	433.55	0.36	433.55
15003	-5486	-5487	S	1508	QPS	ZG	0.06	638.25	0.36	638.25
15003	1518	-5488	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5489	-5490	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5491	-5492	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5493	-5494	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5495	1519	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5496	-5497	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5498	-5499	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5500	-5501	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5502	-5503	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15007	1525	1526	S	1505	QPS	ZG	0.00	638.25	3.25	638.25
15007	1526	1527	S	1505	QPS	ZG	0.00	638.25	3.25	638.25
15007	1527	1589	S	1505	QPS	ZG	0.00	638.25	3.20	638.25
15007	1589	1590	S	1505	QPS	ZG	0.00	638.25	0.70	638.25
15007	1592	1528	S	1503	QPS	ZG	0.00	594.55	3.18	594.55
15007	1528	1529	S	1503	QPS	ZG	0.00	594.55	3.25	594.55
15007	1529	1530	S	1504	QPS	ZG	0.00	594.55	3.25	594.55
15007	1530	1531	S	1504	QPS	ZG	0.00	594.55	3.25	594.55
15007	1531	1532	S	1504	QPS	ZG	0.00	594.55	3.25	594.55
15007	1532	1593	S	1504	QPS	ZG	0.00	594.55	3.25	594.55
15007	1593	1594	S	1508	QPS	ZG	0.00	638.25	0.65	638.25
15007	1596	1533	S	1507	QPS	ZG	0.00	594.55	3.23	594.55
15007	1533	1534	S	1507	QPS	ZG	0.00	594.55	3.23	594.55
15009	1541	1542	S	1506	QPS	ZG	0.00	594.55	3.25	594.55
15009	1543	1544	S	1506	QPS	ZG	0.00	594.55	3.20	594.55
15009	1546	1547	S	1503	QPS	ZG	0.00	594.55	3.25	594.55
15009	1548	1549	S	1504	QPS	ZG	0.00	594.55	3.25	594.55
15009	1550	1551	S	1504	QPS	ZG	0.00	594.55	3.25	594.55
15009	1553	1554	S	1507	QPS	ZG	0.00	594.55	3.23	594.55

15003	-5448	-5449	S	1505	QPS	ZG	0.03	638.25	0.38	638.25
15003	1511	-5450	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5451	-5452	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5453	-5454	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	-5455	-5456	S	1505	QPS	ZG	0.00	638.25	0.40	638.25
15003	1512	-5457	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5458	-5459	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5460	-5461	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5462	-5463	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5464	1513	S	1505	QPS	ZG	0.00	638.25	0.36	638.25
15003	1514	1515	S	1508	QPS	ZG	0.00	638.25	3.25	638.25
15003	-5465	-5466	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5467	-5468	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5469	-5470	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5471	-5472	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	1516	-5473	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5474	-5475	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5476	-5477	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5478	-5479	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5480	1517	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5481	-5482	S	1508	QPS	ZG	0.00	638.25	0.29	638.25
15003	-5482	-5483	S	1508	QPS	ZG	0.00	433.55	0.36	433.55
15003	-5484	-5485	S	1508	QPS	ZG	0.00	433.55	0.36	433.55
15003	-5486	-5487	S	1508	QPS	ZG	0.00	433.55	0.06	433.55
15003	-5487	1518	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5488	-5489	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5490	-5491	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5492	-5493	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5494	-5495	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	1519	-5496	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5497	-5498	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5499	-5500	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5501	-5502	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5503	1520	S	1508	QPS	ZG	0.00	638.25	0.36	638.25
15007	1525	1526	S	1506	QPS	ZG	0.00	594.55	3.25	594.55
15007	1526	1527	S	1506	QPS	ZG	0.00	594.55	3.25	594.55
15007	1527	1589	S	1506	QPS	ZG	0.00	594.55	3.20	594.55
15007	1591	1592	S	1505	QPS	ZG	0.00	638.25	0.72	638.25
15007	1592	1528	S	1505	QPS	ZG	0.00	638.25	3.18	638.25
15007	1528	1529	S	1505	QPS	ZG	0.00	638.25	3.25	638.25
15007	1529	1530	S	1508	QPS	ZG	0.00	638.25	3.25	638.25
15007	1530	1531	S	1508	QPS	ZG	0.00	638.25	3.25	638.25
15007	1531	1532	S	1508	QPS	ZG	0.00	638.25	3.25	638.25
15007	1532	1593	S	1508	QPS	ZG	0.00	638.25	3.25	638.25
15007	1595	1596	S	1508	QPS	ZG	0.00	638.25	0.67	638.25
15007	1596	1533	S	1508	QPS	ZG	0.00	638.25	3.23	638.25
15007	1533	1534	S	1508	QPS	ZG	0.00	638.25	3.23	638.25
15009	1542	1543	S	1506	QPS	ZG	0.00	594.55	3.25	594.55
15009	1545	1546	S	1503	QPS	ZG	0.00	594.55	3.18	594.55
15009	1547	1548	S	1504	QPS	ZG	0.00	594.55	3.25	594.55
15009	1549	1550	S	1504	QPS	ZG	0.00	594.55	3.25	594.55
15009	1552	1553	S	1507	QPS	ZG	0.00	594.55	3.23	594.55
15130	1561	-4915	--	M	ZG	0.00	550.00	0.36	550.00	



# Relazione di calcolo

15130	-4915	-4916	--	M	ZG	0.00	550.00	0.36	550.00	
15130	-4917	-4918	--	M	ZG	0.00	550.00	0.36	550.00	
15130	-4919	-4920	--	M	ZG	0.00	550.00	0.36	550.00	
15130	-4921	-4922	--	M	ZG	0.00	550.00	0.36	550.00	
15173	1563	-4923	--	M	ZG	0.00	1500.00	0.38	1500.00	
15173	-4924	-4925	--	M	ZG	0.00	1500.00	0.38	1500.00	
15173	-4926	-4927	--	M	ZG	0.00	1500.00	0.38	1500.00	
15173	-4928	-4929	--	M	ZG	0.00	1500.00	0.38	1500.00	
15216	1565	-4930	--	M	ZG	0.00	550.00	0.36	550.00	
15216	-4931	-4932	--	M	ZG	0.00	550.00	0.36	550.00	
15216	-4933	-4934	--	M	ZG	0.00	550.00	0.36	550.00	
15216	-4935	-4936	--	M	ZG	0.00	550.00	0.36	550.00	
15216	-4937	1566	--	M	ZG	0.00	550.00	0.36	550.00	
15259	-4938	-4939	--	M	ZG	0.00	550.00	0.36	550.00	
15259	-4940	-4941	--	M	ZG	0.00	550.00	0.36	550.00	
15259	-4942	-4943	--	M	ZG	0.00	550.00	0.36	550.00	
15259	-4944	-4945	--	M	ZG	0.00	550.00	0.36	550.00	
15302	1569	-4946	--	M	ZG	0.00	1500.00	0.36	1500.00	
15302	-4947	-4948	--	M	ZG	0.00	1500.00	0.36	1500.00	
15302	-4949	-4950	--	M	ZG	0.00	1500.00	0.36	1500.00	
15302	-4951	-4952	--	M	ZG	0.00	1500.00	0.36	1500.00	
15345	1571	-4953	--	M	ZG	0.00	550.00	0.36	550.00	
15345	-4954	-4955	--	M	ZG	0.00	550.00	0.36	550.00	
15345	-4956	-4957	--	M	ZG	0.00	550.00	0.36	550.00	
15345	-4958	-4959	--	M	ZG	0.00	550.00	0.36	550.00	
15345	-4960	1572	--	M	ZG	0.00	550.00	0.36	550.00	
17003	1708	-6194	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6195	-6196	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6197	-6198	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6199	-6200	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6201	1709	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6202	-6203	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6204	-6205	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6206	-6207	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6208	1710	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6209	-6210	S	1705	QPS	ZG	0.00	638.25	0.33	638.25
17003	-6210	-6211	S	1705	QPS	ZG	0.00	433.55	0.38	433.55
17003	-6212	-6213	S	1705	QPS	ZG	0.00	433.55	0.38	433.55
17003	-6214	-6215	S	1705	QPS	ZG	0.00	433.55	0.03	433.55
17003	-6215	1711	S	1705	QPS	ZG	0.00	638.25	0.38	638.25
17003	-6216	-6217	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6218	-6219	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6220	-6221	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6222	1712	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6223	-6224	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6225	-6226	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6227	-6228	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6229	-6230	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	1713	1714	S	1708	QPS	ZG	0.00	638.25	3.25	638.25
17003	1715	-6231	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6232	-6233	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6234	-6235	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6236	-6237	S	1708	QPS	ZG	0.00	638.25	0.36	638.25

15130	-4916	-4917	--	M	ZG	0.00	550.00	0.36	550.00	
15130	-4918	-4919	--	M	ZG	0.00	550.00	0.36	550.00	
15130	-4920	-4921	--	M	ZG	0.00	550.00	0.36	550.00	
15130	-4922	1562	--	M	ZG	0.00	550.00	0.36	550.00	
15173	-4923	-4924	--	M	ZG	0.00	1500.00	0.38	1500.00	
15173	-4925	-4926	--	M	ZG	0.00	1500.00	0.38	1500.00	
15173	-4927	-4928	--	M	ZG	0.00	1500.00	0.38	1500.00	
15173	-4929	1564	--	M	ZG	0.00	1500.00	0.38	1500.00	
15216	-4930	-4931	--	M	ZG	0.00	550.00	0.36	550.00	
15216	-4932	-4933	--	M	ZG	0.00	550.00	0.36	550.00	
15216	-4934	-4935	--	M	ZG	0.00	550.00	0.36	550.00	
15216	-4936	-4937	--	M	ZG	0.00	550.00	0.36	550.00	
15259	1567	-4938	--	M	ZG	0.00	550.00	0.36	550.00	
15259	-4939	-4940	--	M	ZG	0.00	550.00	0.36	550.00	
15259	-4941	-4942	--	M	ZG	0.00	550.00	0.36	550.00	
15259	-4943	-4944	--	M	ZG	0.00	550.00	0.36	550.00	
15259	-4945	1568	--	M	ZG	0.00	550.00	0.36	550.00	
15302	-4946	-4947	--	M	ZG	0.00	1500.00	0.36	1500.00	
15302	-4948	-4949	--	M	ZG	0.00	1500.00	0.36	1500.00	
15302	-4950	-4951	--	M	ZG	0.00	1500.00	0.36	1500.00	
15302	-4952	1570	--	M	ZG	0.00	1500.00	0.36	1500.00	
15345	-4953	-4954	--	M	ZG	0.00	550.00	0.36	550.00	
15345	-4955	-4956	--	M	ZG	0.00	550.00	0.36	550.00	
15345	-4957	-4958	--	M	ZG	0.00	550.00	0.36	550.00	
15345	-4959	-4960	--	M	ZG	0.00	550.00	0.36	550.00	
17003	1707	1708	S	1705	QPS	ZG	0.00	638.25	3.25	638.25
17003	-6194	-6195	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6196	-6197	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6198	-6199	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6200	-6201	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	1709	-6202	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6203	-6204	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6205	-6206	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6207	-6208	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	1710	-6209	S	1705	QPS	ZG	0.00	638.25	0.38	638.25
17003	-6209	-6210	S	1705	QPS	ZG	0.33	433.55	0.38	433.55
17003	-6211	-6212	S	1705	QPS	ZG	0.00	433.55	0.38	433.55
17003	-6213	-6214	S	1705	QPS	ZG	0.00	433.55	0.38	433.55
17003	-6214	-6215	S	1705	QPS	ZG	0.03	638.25	0.38	638.25
17003	1711	-6216	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6217	-6218	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6219	-6220	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	-6221	-6222	S	1705	QPS	ZG	0.00	638.25	0.40	638.25
17003	1712	-6223	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6224	-6225	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6226	-6227	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6228	-6229	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6230	1713	S	1705	QPS	ZG	0.00	638.25	0.36	638.25
17003	1714	1715	S	1708	QPS	ZG	0.00	638.25	3.25	638.25
17003	-6231	-6232	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6233	-6234	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6235	-6236	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6237	-6238	S	1708	QPS	ZG	0.00	638.25	0.36	638.25



# Relazione di calcolo

17003	-6238	1716	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6239	-6240	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6241	-6242	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6243	-6244	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6245	-6246	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	1717	-6247	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6247	-6248	S	1708	QPS	ZG	0.29	433.55	0.36	433.55
17003	-6249	-6250	S	1708	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6251	-6252	S	1708	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6252	-6253	S	1708	QPS	ZG	0.06	638.25	0.36	638.25
17003	1718	-6254	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6255	-6256	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6257	-6258	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6259	-6260	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6261	1719	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6262	-6263	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6264	-6265	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6266	-6267	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6268	-6269	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17007	1725	1726	S	1705	QPS	ZG	0.00	638.25	3.25	638.25
17007	1726	1727	S	1705	QPS	ZG	0.00	638.25	3.25	638.25
17007	1727	1789	S	1705	QPS	ZG	0.00	638.25	3.20	638.25
17007	1789	1790	S	1705	QPS	ZG	0.00	638.25	0.70	638.25
17007	1792	1728	S	1703	QPS	ZG	0.00	594.55	3.18	594.55
17007	1728	1729	S	1703	QPS	ZG	0.00	594.55	3.25	594.55
17007	1729	1730	S	1704	QPS	ZG	0.00	594.55	3.25	594.55
17007	1730	1731	S	1704	QPS	ZG	0.00	594.55	3.25	594.55
17007	1731	1732	S	1704	QPS	ZG	0.00	594.55	3.25	594.55
17007	1732	1793	S	1704	QPS	ZG	0.00	594.55	3.25	594.55
17007	1793	1794	S	1708	QPS	ZG	0.00	638.25	0.65	638.25
17007	1796	1733	S	1707	QPS	ZG	0.00	594.55	3.23	594.55
17007	1733	1734	S	1707	QPS	ZG	0.00	594.55	3.23	594.55
17009	1741	1742	S	1706	QPS	ZG	0.00	594.55	3.25	594.55
17009	1743	1744	S	1706	QPS	ZG	0.00	594.55	3.20	594.55
17009	1746	1747	S	1703	QPS	ZG	0.00	594.55	3.25	594.55
17009	1748	1749	S	1704	QPS	ZG	0.00	594.55	3.25	594.55
17009	1750	1751	S	1704	QPS	ZG	0.00	594.55	3.25	594.55
17009	1753	1754	S	1707	QPS	ZG	0.00	594.55	3.23	594.55
17130	-5681	-5682	--	M	ZG	0.00	550.00	0.36	550.00	
17130	-5683	-5684	--	M	ZG	0.00	550.00	0.36	550.00	
17130	-5685	-5686	--	M	ZG	0.00	550.00	0.36	550.00	
17130	-5687	-5688	--	M	ZG	0.00	550.00	0.36	550.00	
17173	1763	-5689	--	M	ZG	0.00	1500.00	0.38	1500.00	
17173	-5690	-5691	--	M	ZG	0.00	1500.00	0.38	1500.00	
17173	-5692	-5693	--	M	ZG	0.00	1500.00	0.38	1500.00	
17173	-5694	-5695	--	M	ZG	0.00	1500.00	0.38	1500.00	
17216	1765	-5696	--	M	ZG	0.00	550.00	0.36	550.00	
17216	-5697	-5698	--	M	ZG	0.00	550.00	0.36	550.00	
17216	-5699	-5700	--	M	ZG	0.00	550.00	0.36	550.00	
17216	-5701	-5702	--	M	ZG	0.00	550.00	0.36	550.00	
17216	-5703	1766	--	M	ZG	0.00	550.00	0.36	550.00	
17259	-5704	-5705	--	M	ZG	0.00	550.00	0.36	550.00	
17259	-5706	-5707	--	M	ZG	0.00	550.00	0.36	550.00	

17003	1716	-6239	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6240	-6241	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6242	-6243	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6244	-6245	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6246	1717	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6247	-6248	S	1708	QPS	ZG	0.00	638.25	0.29	638.25
17003	-6248	-6249	S	1708	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6250	-6251	S	1708	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6252	-6253	S	1708	QPS	ZG	0.00	433.55	0.06	433.55
17003	-6253	1718	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6254	-6255	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6256	-6257	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6258	-6259	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6260	-6261	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	1719	-6262	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6263	-6264	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6265	-6266	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6267	-6268	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6269	1720	S	1708	QPS	ZG	0.00	638.25	0.36	638.25
17007	1725	1726	S	1706	QPS	ZG	0.00	594.55	3.25	594.55
17007	1726	1727	S	1706	QPS	ZG	0.00	594.55	3.25	594.55
17007	1727	1789	S	1706	QPS	ZG	0.00	594.55	3.20	594.55
17007	1791	1792	S	1705	QPS	ZG	0.00	638.25	0.72	638.25
17007	1792	1728	S	1705	QPS	ZG	0.00	638.25	3.18	638.25
17007	1728	1729	S	1705	QPS	ZG	0.00	638.25	3.25	638.25
17007	1729	1730	S	1708	QPS	ZG	0.00	638.25	3.25	638.25
17007	1730	1731	S	1708	QPS	ZG	0.00	638.25	3.25	638.25
17007	1731	1732	S	1708	QPS	ZG	0.00	638.25	3.25	638.25
17007	1732	1793	S	1708	QPS	ZG	0.00	638.25	3.25	638.25
17007	1795	1796	S	1708	QPS	ZG	0.00	638.25	0.67	638.25
17007	1796	1733	S	1708	QPS	ZG	0.00	638.25	3.23	638.25
17007	1733	1734	S	1708	QPS	ZG	0.00	638.25	3.23	638.25
17009	1742	1743	S	1706	QPS	ZG	0.00	594.55	3.25	594.55
17009	1745	1746	S	1703	QPS	ZG	0.00	594.55	3.18	594.55
17009	1747	1748	S	1704	QPS	ZG	0.00	594.55	3.25	594.55
17009	1749	1750	S	1704	QPS	ZG	0.00	594.55	3.25	594.55
17009	1752	1753	S	1707	QPS	ZG	0.00	594.55	3.23	594.55
17130	1761	-5681	--	M	ZG	0.00	550.00	0.36	550.00	
17130	-5682	-5683	--	M	ZG	0.00	550.00	0.36	550.00	
17130	-5684	-5685	--	M	ZG	0.00	550.00	0.36	550.00	
17130	-5686	-5687	--	M	ZG	0.00	550.00	0.36	550.00	
17130	-5688	1762	--	M	ZG	0.00	550.00	0.36	550.00	
17173	-5689	-5690	--	M	ZG	0.00	1500.00	0.38	1500.00	
17173	-5691	-5692	--	M	ZG	0.00	1500.00	0.38	1500.00	
17173	-5693	-5694	--	M	ZG	0.00	1500.00	0.38	1500.00	
17173	-5695	1764	--	M	ZG	0.00	1500.00	0.38	1500.00	
17216	-5696	-5697	--	M	ZG	0.00	550.00	0.36	550.00	
17216	-5698	-5699	--	M	ZG	0.00	550.00	0.36	550.00	
17216	-5700	-5701	--	M	ZG	0.00	550.00	0.36	550.00	
17216	-5702	-5703	--	M	ZG	0.00	550.00	0.36	550.00	
17259	1767	-5704	--	M	ZG	0.00	550.00	0.36	550.00	
17259	-5705	-5706	--	M	ZG	0.00	550.00	0.36	550.00	
17259	-5707	-5708	--	M	ZG	0.00	550.00	0.36	550.00	



# Relazione di calcolo

17259	-5708	-5709	--	M	ZG	0.00	550.00	0.36	550.00	
17259	-5710	-5711	--	M	ZG	0.00	550.00	0.36	550.00	
17302	1769	-5712	--	M	ZG	0.00	1500.00	0.36	1500.00	
17302	-5713	-5714	--	M	ZG	0.00	1500.00	0.36	1500.00	
17302	-5715	-5716	--	M	ZG	0.00	1500.00	0.36	1500.00	
17302	-5717	-5718	--	M	ZG	0.00	1500.00	0.36	1500.00	
17345	1771	-5719	--	M	ZG	0.00	550.00	0.36	550.00	
17345	-5720	-5721	--	M	ZG	0.00	550.00	0.36	550.00	
17345	-5722	-5723	--	M	ZG	0.00	550.00	0.36	550.00	
17345	-5724	-5725	--	M	ZG	0.00	550.00	0.36	550.00	
17345	-5726	1772	--	M	ZG	0.00	550.00	0.36	550.00	
19003	1908	-6959	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6960	-6961	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6962	-6963	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6964	-6965	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6966	1909	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6967	-6968	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6969	-6970	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6971	-6972	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6973	1910	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6974	-6975	S	1905	QPS	ZG	0.00	638.25	0.33	638.25
19003	-6975	-6976	S	1905	QPS	ZG	0.00	433.55	0.38	433.55
19003	-6977	-6978	S	1905	QPS	ZG	0.00	433.55	0.38	433.55
19003	-6979	-6980	S	1905	QPS	ZG	0.00	433.55	0.03	433.55
19003	-6980	1911	S	1905	QPS	ZG	0.00	638.25	0.38	638.25
19003	-6981	-6982	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6983	-6984	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6985	-6986	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6987	1912	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6988	-6989	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6990	-6991	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6992	-6993	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6994	-6995	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	1913	1914	S	1904	QPS	ZG	0.00	638.25	3.25	638.25
19003	1915	-6996	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6997	-6998	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6999	-7000	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7001	-7002	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7003	1916	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7004	-7005	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7006	-7007	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7008	-7009	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7010	-7011	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	1917	-7012	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7012	-7013	S	1904	QPS	ZG	0.29	433.55	0.36	433.55
19003	-7014	-7015	S	1904	QPS	ZG	0.00	433.55	0.36	433.55
19003	-7016	-7017	S	1904	QPS	ZG	0.00	433.55	0.36	433.55
19003	-7017	-7018	S	1904	QPS	ZG	0.06	638.25	0.36	638.25
19003	1918	-7019	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7020	-7021	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7022	-7023	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7024	-7025	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7026	1919	S	1904	QPS	ZG	0.00	638.25	0.36	638.25

17259	-5709	-5710	--	M	ZG	0.00	550.00	0.36	550.00	
17259	-5711	1768	--	M	ZG	0.00	550.00	0.36	550.00	
17302	-5712	-5713	--	M	ZG	0.00	1500.00	0.36	1500.00	
17302	-5714	-5715	--	M	ZG	0.00	1500.00	0.36	1500.00	
17302	-5716	-5717	--	M	ZG	0.00	1500.00	0.36	1500.00	
17302	-5718	1770	--	M	ZG	0.00	1500.00	0.36	1500.00	
17345	-5719	-5720	--	M	ZG	0.00	550.00	0.36	550.00	
17345	-5721	-5722	--	M	ZG	0.00	550.00	0.36	550.00	
17345	-5723	-5724	--	M	ZG	0.00	550.00	0.36	550.00	
17345	-5725	-5726	--	M	ZG	0.00	550.00	0.36	550.00	
19003	1907	1908	S	1905	QPS	ZG	0.00	638.25	3.25	638.25
19003	-6959	-6960	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6961	-6962	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6963	-6964	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6965	-6966	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	1909	-6967	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6968	-6969	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6970	-6971	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6972	-6973	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	1910	-6974	S	1905	QPS	ZG	0.00	638.25	0.38	638.25
19003	-6974	-6975	S	1905	QPS	ZG	0.33	433.55	0.38	433.55
19003	-6976	-6977	S	1905	QPS	ZG	0.00	433.55	0.38	433.55
19003	-6978	-6979	S	1905	QPS	ZG	0.00	433.55	0.38	433.55
19003	-6979	-6980	S	1905	QPS	ZG	0.03	638.25	0.38	638.25
19003	1911	-6981	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6982	-6983	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6984	-6985	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	-6986	-6987	S	1905	QPS	ZG	0.00	638.25	0.40	638.25
19003	1912	-6988	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6989	-6990	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6991	-6992	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6993	-6994	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6995	1913	S	1905	QPS	ZG	0.00	638.25	0.36	638.25
19003	1914	1915	S	1904	QPS	ZG	0.00	638.25	3.25	638.25
19003	-6996	-6997	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6998	-6999	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7000	-7001	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7002	-7003	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	1916	-7004	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7005	-7006	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7007	-7008	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7009	-7010	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7011	1917	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7012	-7013	S	1904	QPS	ZG	0.00	638.25	0.29	638.25
19003	-7013	-7014	S	1904	QPS	ZG	0.00	433.55	0.36	433.55
19003	-7015	-7016	S	1904	QPS	ZG	0.00	433.55	0.36	433.55
19003	-7017	-7018	S	1904	QPS	ZG	0.00	433.55	0.06	433.55
19003	-7018	1918	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7019	-7020	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7021	-7022	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7023	-7024	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7025	-7026	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	1919	-7027	S	1904	QPS	ZG	0.00	638.25	0.36	638.25



# Relazione di calcolo

19003	-7027	-7028	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7029	-7030	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7031	-7032	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7033	-7034	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19007	1925	1926	S	1905	QPS	ZG	0.00	638.25	3.25	638.25
19007	1926	1927	S	1905	QPS	ZG	0.00	638.25	3.25	638.25
19007	1927	1989	S	1905	QPS	ZG	0.00	638.25	3.20	638.25
19007	1989	1990	S	1905	QPS	ZG	0.00	638.25	0.70	638.25
19007	1992	1928	S	1903	QPS	ZG	0.00	594.55	3.18	594.55
19007	1928	1929	S	1903	QPS	ZG	0.00	594.55	3.25	594.55
19007	1929	1930	S	1904	QPS	ZG	0.00	638.25	3.25	638.25
19007	1930	1931	S	1904	QPS	ZG	0.00	638.25	3.25	638.25
19007	1931	1932	S	1904	QPS	ZG	0.00	638.25	3.25	638.25
19007	1932	1993	S	1904	QPS	ZG	0.00	638.25	3.25	638.25
19007	1993	1994	S	1904	QPS	ZG	0.00	638.25	0.65	638.25
19007	1996	1933	S	1904	QPS	ZG	0.00	638.25	3.23	638.25
19007	1933	1934	S	1904	QPS	ZG	0.00	638.25	3.23	638.25
19009	1941	1942	S	1906	QPS	ZG	0.00	594.55	3.25	594.55
19009	1943	1944	S	1906	QPS	ZG	0.00	594.55	3.20	594.55
19009	1946	1947	S	1903	QPS	ZG	0.00	594.55	3.25	594.55
19009	1948	1949	S	1908	QPS	ZG	0.00	594.55	3.25	594.55
19009	1950	1951	S	1908	QPS	ZG	0.00	594.55	3.25	594.55
19009	1953	1954	S	1907	QPS	ZG	0.00	594.55	3.23	594.55
19130	-6446	-6447	--	M	ZG	0.00	550.00	0.36	550.00	
19130	-6448	-6449	--	M	ZG	0.00	550.00	0.36	550.00	
19130	-6450	-6451	--	M	ZG	0.00	550.00	0.36	550.00	
19130	-6452	-6453	--	M	ZG	0.00	550.00	0.36	550.00	
19173	1963	-6454	--	M	ZG	0.00	550.00	0.38	550.00	
19173	-6455	-6456	--	M	ZG	0.00	550.00	0.38	550.00	
19173	-6457	-6458	--	M	ZG	0.00	550.00	0.38	550.00	
19173	-6459	-6460	--	M	ZG	0.00	550.00	0.38	550.00	
19216	1965	-6461	--	M	ZG	0.00	550.00	0.36	550.00	
19216	-6462	-6463	--	M	ZG	0.00	550.00	0.36	550.00	
19216	-6464	-6465	--	M	ZG	0.00	550.00	0.36	550.00	
19216	-6466	-6467	--	M	ZG	0.00	550.00	0.36	550.00	
19216	-6468	1966	--	M	ZG	0.00	550.00	0.36	550.00	
19259	-6469	-6470	--	M	ZG	0.00	550.00	0.36	550.00	
19259	-6471	-6472	--	M	ZG	0.00	550.00	0.36	550.00	
19259	-6473	-6474	--	M	ZG	0.00	550.00	0.36	550.00	
19259	-6475	-6476	--	M	ZG	0.00	550.00	0.36	550.00	
19302	1969	-6477	--	M	ZG	0.00	550.00	0.36	550.00	
19302	-6478	-6479	--	M	ZG	0.00	550.00	0.36	550.00	
19302	-6480	-6481	--	M	ZG	0.00	550.00	0.36	550.00	
19302	-6482	-6483	--	M	ZG	0.00	550.00	0.36	550.00	
19345	1971	-6484	--	M	ZG	0.00	550.00	0.36	550.00	
19345	-6485	-6486	--	M	ZG	0.00	550.00	0.36	550.00	
19345	-6487	-6488	--	M	ZG	0.00	550.00	0.36	550.00	
19345	-6489	-6490	--	M	ZG	0.00	550.00	0.36	550.00	
19345	-6491	1972	--	M	ZG	0.00	550.00	0.36	550.00	
22020	25	41	S	2208	QPS	ZG	0.00	325.00	5.17	325.00
22021	8	26	S	2209	QPS	ZG	0.00	325.00	5.55	325.00
22021	26	42	S	2208	QPS	ZG	0.00	325.00	5.17	325.00
22022	9	27	S	2220	QPS	ZG	0.00	320.00	5.55	320.00

19003	-7028	-7029	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7030	-7031	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7032	-7033	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19003	-7034	1920	S	1904	QPS	ZG	0.00	638.25	0.36	638.25
19007	1925	1926	S	1906	QPS	ZG	0.00	594.55	3.25	594.55
19007	1926	1927	S	1906	QPS	ZG	0.00	594.55	3.25	594.55
19007	1927	1989	S	1906	QPS	ZG	0.00	594.55	3.20	594.55
19007	1991	1992	S	1905	QPS	ZG	0.00	638.25	0.72	638.25
19007	1992	1928	S	1905	QPS	ZG	0.00	638.25	3.18	638.25
19007	1928	1929	S	1905	QPS	ZG	0.00	638.25	3.25	638.25
19007	1929	1930	S	1908	QPS	ZG	0.00	594.55	3.25	594.55
19007	1930	1931	S	1908	QPS	ZG	0.00	594.55	3.25	594.55
19007	1931	1932	S	1908	QPS	ZG	0.00	594.55	3.25	594.55
19007	1932	1993	S	1908	QPS	ZG	0.00	594.55	3.25	594.55
19007	1995	1996	S	1904	QPS	ZG	0.00	638.25	0.67	638.25
19007	1996	1933	S	1907	QPS	ZG	0.00	594.55	3.23	594.55
19007	1933	1934	S	1907	QPS	ZG	0.00	594.55	3.23	594.55
19009	1942	1943	S	1906	QPS	ZG	0.00	594.55	3.25	594.55
19009	1945	1946	S	1903	QPS	ZG	0.00	594.55	3.18	594.55
19009	1947	1948	S	1908	QPS	ZG	0.00	594.55	3.25	594.55
19009	1949	1950	S	1908	QPS	ZG	0.00	594.55	3.25	594.55
19009	1952	1953	S	1907	QPS	ZG	0.00	594.55	3.23	594.55
19130	1961	-6446	--	M	ZG	0.00	550.00	0.36	550.00	
19130	-6447	-6448	--	M	ZG	0.00	550.00	0.36	550.00	
19130	-6449	-6450	--	M	ZG	0.00	550.00	0.36	550.00	
19130	-6451	-6452	--	M	ZG	0.00	550.00	0.36	550.00	
19130	-6453	1962	--	M	ZG	0.00	550.00	0.36	550.00	
19173	-6454	-6455	--	M	ZG	0.00	550.00	0.38	550.00	
19173	-6456	-6457	--	M	ZG	0.00	550.00	0.38	550.00	
19173	-6458	-6459	--	M	ZG	0.00	550.00	0.38	550.00	
19173	-6460	1964	--	M	ZG	0.00	550.00	0.38	550.00	
19216	-6461	-6462	--	M	ZG	0.00	550.00	0.36	550.00	
19216	-6463	-6464	--	M	ZG	0.00	550.00	0.36	550.00	
19216	-6465	-6466	--	M	ZG	0.00	550.00	0.36	550.00	
19216	-6467	-6468	--	M	ZG	0.00	550.00	0.36	550.00	
19259	1967	-6469	--	M	ZG	0.00	550.00	0.36	550.00	
19259	-6470	-6471	--	M	ZG	0.00	550.00	0.36	550.00	
19259	-6472	-6473	--	M	ZG	0.00	550.00	0.36	550.00	
19259	-6474	-6475	--	M	ZG	0.00	550.00	0.36	550.00	
19259	-6476	1968	--	M	ZG	0.00	550.00	0.36	550.00	
19302	-6477	-6478	--	M	ZG	0.00	550.00	0.36	550.00	
19302	-6479	-6480	--	M	ZG	0.00	550.00	0.36	550.00	
19302	-6481	-6482	--	M	ZG	0.00	550.00	0.36	550.00	
19302	-6483	1970	--	M	ZG	0.00	550.00	0.36	550.00	
19345	-6484	-6485	--	M	ZG	0.00	550.00	0.36	550.00	
19345	-6486	-6487	--	M	ZG	0.00	550.00	0.36	550.00	
19345	-6488	-6489	--	M	ZG	0.00	550.00	0.36	550.00	
19345	-6490	-6491	--	M	ZG	0.00	550.00	0.36	550.00	
22020	7	25	S	2209	QPS	ZG	0.00	325.00	5.55	325.00
22021	8	26	S	2206	QPS	ZG	0.00	325.00	5.55	325.00
22021	26	42	S	2207	QPS	ZG	0.00	325.00	5.17	325.00
22022	9	27	S	2206	QPS	ZG	0.00	325.00	5.55	325.00
22022	27	43	S	2207	QPS	ZG	0.00	325.00	5.17	325.00



# Relazione di calcolo

22022	27	43	S	2221	QPS	ZG	0.00	320.00	5.17	320.00
22024	10	59	S	2223	QPS	ZG	0.00	300.00	2.66	300.00
22024	59	-105	S	2223	QPS	ZG	0.00	300.00	1.11	300.00
22024	-105	-123	S	2223	QPS	ZG	0.00	300.00	0.59	300.00
22024	-123	-140	S	2223	QPS	ZG	0.00	300.00	0.59	300.00
22024	-140	-157	S	2223	QPS	ZG	0.00	300.00	0.59	300.00
22024	-157	-178	S	2222	QPS	ZG	0.00	300.00	1.11	300.00
22024	-178	44	S	2222	QPS	ZG	0.00	300.00	4.06	300.00
22027	11	60	S	2224	QPS	ZG	0.00	318.00	2.66	318.00
22027	60	-109	S	2224	QPS	ZG	0.00	318.00	1.11	318.00
22027	-109	-127	S	2224	QPS	ZG	0.00	318.00	0.59	318.00
22027	-127	-144	S	2224	QPS	ZG	0.00	318.00	0.59	318.00
22027	-144	-161	S	2224	QPS	ZG	0.00	318.00	0.59	318.00
22027	-161	-182	S	2225	QPS	ZG	0.00	318.00	1.11	318.00
22027	-182	45	S	2225	QPS	ZG	0.00	318.00	4.06	318.00
22029	12	28	S	2224	QPS	ZG	0.00	318.00	5.55	318.00
22029	28	46	S	2225	QPS	ZG	0.00	318.00	5.17	318.00
22030	13	29	S	2204	QPS	ZG	0.00	325.00	5.55	325.00
22030	29	47	S	2205	QPS	ZG	0.00	325.00	5.17	325.00
22042	19	133	S	2228	QPS	ZG	0.00	323.00	5.55	323.00
22043	34	54	S	2226	QPS	ZG	0.00	323.00	5.17	323.00
22136	130	169	S	2231	QPS	ZG	0.00	1387.50	3.25	1387.50
22136	169	170	S	2231	QPS	ZG	0.00	1387.50	3.25	1387.50
22136	170	-163	S	2231	QPS	ZG	0.00	1387.50	3.90	1387.50
22179	-165	-166	S	2231	QPS	ZG	0.00	1387.50	0.34	1387.50
22179	-166	-167	S	2231	QPS	ZG	0.00	1387.50	0.34	1387.50

22024	10	59	S	2220	QPS	ZG	0.00	320.00	2.66	320.00
22024	59	-105	S	2220	QPS	ZG	0.00	320.00	1.11	320.00
22024	-105	-123	S	2220	QPS	ZG	0.00	320.00	0.59	320.00
22024	-123	-140	S	2220	QPS	ZG	0.00	320.00	0.59	320.00
22024	-140	-157	S	2220	QPS	ZG	0.00	320.00	0.59	320.00
22024	-157	-178	S	2221	QPS	ZG	0.00	320.00	1.11	320.00
22024	-178	44	S	2221	QPS	ZG	0.00	320.00	4.06	320.00
22027	11	60	S	2223	QPS	ZG	0.00	300.00	2.66	300.00
22027	60	-109	S	2223	QPS	ZG	0.00	300.00	1.11	300.00
22027	-109	-127	S	2223	QPS	ZG	0.00	300.00	0.59	300.00
22027	-127	-144	S	2223	QPS	ZG	0.00	300.00	0.59	300.00
22027	-144	-161	S	2223	QPS	ZG	0.00	300.00	0.59	300.00
22027	-161	-182	S	2222	QPS	ZG	0.00	300.00	1.11	300.00
22027	-182	45	S	2222	QPS	ZG	0.00	300.00	4.06	300.00
22029	12	28	S	2204	QPS	ZG	0.00	325.00	5.55	325.00
22029	28	46	S	2205	QPS	ZG	0.00	325.00	5.17	325.00
22030	13	29	S	2202	QPS	ZG	0.00	325.00	5.55	325.00
22030	29	47	S	2203	QPS	ZG	0.00	325.00	5.17	325.00
22042	19	133	S	2227	QPS	ZG	0.00	323.00	5.55	323.00
22043	20	34	S	2228	QPS	ZG	0.00	323.00	5.55	323.00
22136	130	169	S	2230	QPS	ZG	0.00	1292.50	3.25	1292.50
22136	169	170	S	2230	QPS	ZG	0.00	1292.50	3.25	1292.50
22136	170	-163	S	2230	QPS	ZG	0.00	1292.50	3.90	1292.50
22179	-165	-166	S	2230	QPS	ZG	0.00	1292.50	0.34	1292.50
22179	-166	-167	S	2230	QPS	ZG	0.00	1292.50	0.34	1292.50

## Condizione di carico n. 2: Permanenti non strutturali Carichi distribuiti

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1682	-1683	S	504	QPN	ZG	0.00	358.15	0.79	358.15
0	-2447	-2448	S	702	QPN	ZG	0.00	358.15	0.79	358.15
0	-1035	445	T	229	QPN	ZG	0.00	450.00	1.50	450.00
0	-84	-96	S	2202	QPN	ZG	0.00	325.00	1.85	325.00
0	130	-184	S	2203	QPN	ZG	0.00	325.00	2.58	325.00
0	-184	148	S	2203	QPN	ZG	0.00	325.00	2.58	325.00
0	114	115	S	2231	QPN	ZG	0.00	555.00	3.25	555.00
0	644	-1800	T	429	QPN	ZG	0.00	450.00	1.50	450.00
0	-3977	-3978	S	1105	QPN	ZG	0.00	358.15	0.79	358.15
0	149	150	S	2230	QPN	ZG	0.00	517.00	3.25	517.00
0	115	116	S	2231	QPN	ZG	0.00	555.00	3.25	555.00
0	-4742	-4743	S	1305	QPN	ZG	0.00	358.15	0.79	358.15
0	-82	117	S	2231	QPN	ZG	0.00	555.00	1.55	555.00
0	1044	-3330	T	829	QPN	ZG	0.00	450.00	1.50	450.00
0	-3330	1045	T	829	QPN	ZG	0.00	450.00	1.50	450.00
0	117	-83	S	2231	QPN	ZG	0.00	555.00	1.44	555.00
0	-5508	-5509	S	1505	QPN	ZG	0.00	358.15	0.79	358.15
0	-95	118	S	2227	QPN	ZG	0.00	323.00	2.66	323.00
0	-163	-164	S	2230	QPN	ZG	0.00	517.00	0.79	517.00
0	-7132	-7131	S	2230	QPN	ZG	0.00	517.00	0.72	517.00
0	-167	-148	S	2227	QPN	ZG	0.00	323.00	0.59	323.00
0	150	151	S	2230	QPN	ZG	0.00	517.00	3.25	517.00
0	-4860	1445	T	1229	QPN	ZG	0.00	450.00	1.50	450.00

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1683	-1684	S	504	QPN	ZG	0.00	358.15	0.79	358.15
0	-2448	-2449	S	702	QPN	ZG	0.00	358.15	0.79	358.15
0	114	-84	S	2202	QPN	ZG	0.00	325.00	1.85	325.00
0	-96	130	S	2202	QPN	ZG	0.00	325.00	1.85	325.00
0	444	-1035	T	229	QPN	ZG	0.00	450.00	1.50	450.00
0	-3212	-3213	S	904	QPN	ZG	0.00	358.15	0.79	358.15
0	-3213	-3214	S	904	QPN	ZG	0.00	358.15	0.79	358.15
0	-1800	645	T	429	QPN	ZG	0.00	450.00	1.50	450.00
0	-3978	-3979	S	1105	QPN	ZG	0.00	358.15	0.79	358.15
0	-2565	845	T	629	QPN	ZG	0.00	450.00	1.50	450.00
0	844	-2565	T	629	QPN	ZG	0.00	450.00	1.50	450.00
0	-4743	-4744	S	1305	QPN	ZG	0.00	358.15	0.79	358.15
0	148	149	S	2230	QPN	ZG	0.00	517.00	3.25	517.00
0	116	-82	S	2231	QPN	ZG	0.00	555.00	1.70	555.00
0	-83	118	S	2231	QPN	ZG	0.00	555.00	1.46	555.00
0	-5507	-5508	S	1505	QPN	ZG	0.00	358.15	0.79	358.15
0	1244	-4095	T	1029	QPN	ZG	0.00	450.00	1.50	450.00
0	1444	-4860	T	1229	QPN	ZG	0.00	450.00	1.50	450.00
0	-163	-164	S	2231	QPN	ZG	0.00	555.00	0.79	555.00
0	-4095	1245	T	1029	QPN	ZG	0.00	450.00	1.50	450.00
0	-167	-148	S	2229	QA	ZG	0.00	67.00	0.59	67.00
0	-147	-130	S	2229	QA	ZG	0.00	67.00	0.59	67.00
0	-114	-95	S	2227	QPN	ZG	0.00	323.00	1.11	323.00



# Relazione di calcolo

0	-130	-113	S	2229	QA	ZG	0.00	67.00	0.59	67.00
0	-164	-165	S	2231	QPN	ZG	0.00	555.00	0.79	555.00
0	-148	-131	S	2229	QA	ZG	0.00	67.00	0.59	67.00
0	-131	-114	S	2227	QPN	ZG	0.00	323.00	0.59	323.00
0	-6274	-6275	S	1705	QPN	ZG	0.00	358.15	0.79	358.15
0	-165	-147	S	2229	QA	ZG	0.00	67.00	0.59	67.00
0	-168	-167	S	2230	QPN	ZG	0.00	517.00	0.54	517.00
0	152	153	S	2230	QPN	ZG	0.00	517.00	3.23	517.00
0	133	-169	S	2230	QPN	ZG	0.00	517.00	1.88	517.00
0	-7038	-7039	S	1905	QPN	ZG	0.00	754.00	0.79	754.00
0	-1686	-1687	S	507	QPN	ZG	0.00	358.15	0.79	358.15
0	-7039	-7040	S	1905	QPN	ZG	0.00	754.00	0.79	754.00
0	1844	-6391	T	1629	QPN	ZG	0.00	450.00	1.50	450.00
0	-2450	-2451	S	706	QPN	ZG	0.00	358.15	0.79	358.15
0	-1036	452	T	236	QPN	ZG	0.00	450.00	1.45	450.00
0	-3215	-3216	S	907	QPN	ZG	0.00	358.15	0.79	358.15
0	651	-1801	T	436	QPN	ZG	0.00	450.00	1.45	450.00
0	-3981	-3982	S	1108	QPN	ZG	0.00	358.15	0.79	358.15
0	851	-2566	T	636	QPN	ZG	0.00	450.00	1.45	450.00
0	-4745	-4746	S	1308	QPN	ZG	0.00	358.15	0.79	358.15
0	1051	-3331	T	836	QPN	ZG	0.00	450.00	1.45	450.00
0	-5510	-5511	S	1508	QPN	ZG	0.00	358.15	0.79	358.15
0	1251	-4096	T	1036	QPN	ZG	0.00	450.00	1.45	450.00
0	-6276	-6277	S	1708	QPN	ZG	0.00	358.15	0.79	358.15
0	1451	-4861	T	1236	QPN	ZG	0.00	450.00	1.45	450.00
0	-7041	-7042	S	1904	QPN	ZG	0.00	754.00	0.79	754.00
0	1651	-5627	T	1436	QPN	ZG	0.00	450.00	1.45	450.00
0	1851	-6392	T	1636	QPN	ZG	0.00	450.00	1.45	450.00
1003	154	155	S	104	QPN	ZG	0.00	185.00	3.25	185.00
1003	156	-1	S	104	QPN	ZG	0.00	185.00	1.70	185.00
1004	-3	-4	S	104	QPN	ZG	0.00	185.00	8.20	185.00
1005	-11	-12	S	103	QPN	ZG	0.00	185.00	8.20	185.00
1007	160	131	S	102	QPN	ZG	0.00	185.00	3.25	185.00
1007	131	132	S	102	QPN	ZG	0.00	185.00	3.25	185.00
1007	132	161	S	102	QPN	ZG	0.00	185.00	1.70	185.00
1007	-34	-35	S	101	QPN	ZG	0.00	258.50	0.56	258.50
1007	-36	-37	S	101	QPN	ZG	0.00	258.50	0.79	258.50
1007	-38	-39	S	101	QPN	ZG	0.00	258.50	0.67	258.50
1007	-40	-41	S	101	QPN	ZG	0.00	258.50	0.81	258.50
1008	-49	-50	S	100	QPN	ZG	0.00	258.50	15.88	258.50
1009	163	164	S	100	QPN	ZG	0.00	258.50	3.25	258.50
1009	165	166	S	100	QPN	ZG	0.00	258.50	3.25	258.50
1009	-7135	-7134	S	100	QPN	ZG	0.00	258.50	0.72	258.50
1009	-7136	167	S	100	QPN	ZG	0.00	258.50	0.72	258.50
1034	-1	-4	S	105	QPN	ZG	0.00	155.00	1.85	155.00
1034	-12	161	S	105	QPN	ZG	0.00	155.00	1.85	155.00
1035	157	159	S	106	QPN	ZG	0.00	290.00	2.66	290.00
1035	159	-14	S	106	QPN	ZG	0.00	290.00	1.11	290.00
1035	-14	-21	S	106	QPN	ZG	0.00	290.00	0.59	290.00
1035	-21	-28	S	106	QPN	ZG	0.00	290.00	0.59	290.00
1035	-28	-35	S	106	QPN	ZG	0.00	290.00	0.59	290.00
1041	-9	-18	S	106	QPN	ZG	0.00	290.00	1.11	290.00
1041	-25	-32	S	106	QPN	ZG	0.00	290.00	0.59	290.00

0	-164	-165	S	2230	QPN	ZG	0.00	517.00	0.79	517.00
0	-148	-131	S	2227	QPN	ZG	0.00	323.00	0.59	323.00
0	-7131	-7133	S	2230	QPN	ZG	0.00	517.00	0.72	517.00
0	-131	-114	S	2229	QA	ZG	0.00	67.00	0.59	67.00
0	1644	-5626	T	1429	QPN	ZG	0.00	450.00	1.50	450.00
0	-6273	-6274	S	1705	QPN	ZG	0.00	358.15	0.79	358.15
0	-169	-168	S	2230	QPN	ZG	0.00	517.00	0.81	517.00
0	-5626	1645	T	1429	QPN	ZG	0.00	450.00	1.50	450.00
0	-185	133	S	2226	QPN	ZG	0.00	323.00	2.58	323.00
0	-7133	152	S	2230	QPN	ZG	0.00	517.00	0.72	517.00
0	153	-185	S	2226	QPN	ZG	0.00	323.00	2.58	323.00
0	151	-7132	S	2230	QPN	ZG	0.00	517.00	0.72	517.00
0	-1685	-1686	S	507	QPN	ZG	0.00	358.15	0.79	358.15
0	-2451	-2452	S	706	QPN	ZG	0.00	358.15	0.79	358.15
0	451	-1036	T	236	QPN	ZG	0.00	450.00	1.45	450.00
0	-3216	-3217	S	907	QPN	ZG	0.00	358.15	0.79	358.15
0	-1801	652	T	436	QPN	ZG	0.00	450.00	1.45	450.00
0	-3980	-3981	S	1108	QPN	ZG	0.00	358.15	0.79	358.15
0	-2566	852	T	636	QPN	ZG	0.00	450.00	1.45	450.00
0	-4746	-4747	S	1308	QPN	ZG	0.00	358.15	0.79	358.15
0	-3331	1052	T	836	QPN	ZG	0.00	450.00	1.45	450.00
0	-5511	-5512	S	1508	QPN	ZG	0.00	358.15	0.79	358.15
0	-4096	1252	T	1036	QPN	ZG	0.00	450.00	1.45	450.00
0	-6277	-6278	S	1708	QPN	ZG	0.00	358.15	0.79	358.15
0	-4861	1452	T	1236	QPN	ZG	0.00	450.00	1.45	450.00
0	-7042	-7043	S	1904	QPN	ZG	0.00	754.00	0.79	754.00
0	-5627	1652	T	1436	QPN	ZG	0.00	450.00	1.45	450.00
0	-6392	1852	T	1636	QPN	ZG	0.00	450.00	1.45	450.00
1003	155	156	S	104	QPN	ZG	0.00	185.00	3.25	185.00
1004	-3	-4	S	103	QPN	ZG	0.00	185.00	8.20	185.00
1005	-11	-12	S	102	QPN	ZG	0.00	185.00	8.20	185.00
1007	160	131	S	101	QPN	ZG	0.00	258.50	3.25	258.50
1007	131	132	S	101	QPN	ZG	0.00	258.50	3.25	258.50
1007	132	161	S	101	QPN	ZG	0.00	258.50	1.70	258.50
1007	161	-34	S	101	QPN	ZG	0.00	258.50	0.99	258.50
1007	-35	-36	S	101	QPN	ZG	0.00	258.50	0.65	258.50
1007	-37	-38	S	101	QPN	ZG	0.00	258.50	0.79	258.50
1007	-39	-40	S	101	QPN	ZG	0.00	258.50	0.54	258.50
1007	-41	162	S	101	QPN	ZG	0.00	258.50	1.88	258.50
1008	-49	-50	S	101	QPN	ZG	0.00	258.50	15.88	258.50
1009	164	165	S	100	QPN	ZG	0.00	258.50	3.25	258.50
1009	166	-7135	S	100	QPN	ZG	0.00	258.50	0.72	258.50
1009	-7134	-7136	S	100	QPN	ZG	0.00	258.50	0.72	258.50
1009	167	168	S	100	QPN	ZG	0.00	258.50	3.23	258.50
1034	-4	-12	S	105	QPN	ZG	0.00	155.00	1.85	155.00
1035	157	159	S	105	QPN	ZG	0.00	155.00	2.66	155.00
1035	159	-14	S	105	QPN	ZG	0.00	155.00	1.11	155.00
1035	-14	-21	S	105	QPN	ZG	0.00	155.00	0.59	155.00
1035	-21	-28	S	105	QPN	ZG	0.00	155.00	0.59	155.00
1035	-28	-35	S	105	QPN	ZG	0.00	155.00	0.59	155.00
1041	158	-9	S	106	QPN	ZG	0.00	290.00	2.66	290.00
1041	-18	-25	S	106	QPN	ZG	0.00	290.00	0.59	290.00
1041	-32	-39	S	106	QPN	ZG	0.00	290.00	0.59	290.00



## Relazione di calcolo

3003	307	308	S	304	QPN	ZG	0.00	527.25	3.25	527.25	3003	307	308	T	107	QPN	ZG	0.00	900.00	3.25	900.00
3003	308	-829	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	308	-829	T	108	QPN	ZG	0.00	900.00	0.36	900.00
3003	-829	-830	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-829	-830	T	108	QPN	ZG	0.00	900.00	0.36	900.00
3003	-830	-831	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-830	-831	T	108	QPN	ZG	0.00	900.00	0.36	900.00
3003	-831	-832	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-831	-832	T	108	QPN	ZG	0.00	900.00	0.36	900.00
3003	-832	-833	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-832	-833	T	108	QPN	ZG	0.00	900.00	0.36	900.00
3003	-833	-834	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-833	-834	T	108	QPN	ZG	0.00	900.00	0.36	900.00
3003	-834	-835	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-834	-835	T	108	QPN	ZG	0.00	900.00	0.36	900.00
3003	-835	-836	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-835	-836	T	108	QPN	ZG	0.00	900.00	0.36	900.00
3003	-836	309	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-836	309	T	108	QPN	ZG	0.00	900.00	0.36	900.00
3003	309	-837	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	309	-837	T	109	QPN	ZG	0.00	900.00	0.40	900.00
3003	-837	-838	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-837	-838	T	109	QPN	ZG	0.00	900.00	0.40	900.00
3003	-838	-839	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-838	-839	T	109	QPN	ZG	0.00	900.00	0.40	900.00
3003	-839	-840	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-839	-840	T	109	QPN	ZG	0.00	900.00	0.40	900.00
3003	-840	-841	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-840	-841	T	109	QPN	ZG	0.00	900.00	0.40	900.00
3003	-841	-842	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-841	-842	T	109	QPN	ZG	0.00	900.00	0.40	900.00
3003	-842	-843	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-842	-843	T	109	QPN	ZG	0.00	900.00	0.40	900.00
3003	-843	310	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-843	310	T	109	QPN	ZG	0.00	900.00	0.40	900.00
3003	310	-844	S	304	QPN	ZG	0.00	527.25	0.38	527.25	3003	310	-844	T	110	QPN	ZG	0.00	900.00	0.38	900.00
3003	-844	-845	S	304	QPN	ZG	0.00	527.25	0.33	527.25	3003	-844	-845	T	110	QPN	ZG	0.00	900.00	0.38	900.00
3003	-844	-845	S	304	QPN	ZG	0.33	358.15	0.38	358.15	3003	-845	-846	S	304	QPN	ZG	0.00	358.15	0.38	358.15
3003	-845	-846	T	110	QPN	ZG	0.00	900.00	0.38	900.00	3003	-846	-847	S	304	QPN	ZG	0.00	358.15	0.38	358.15
3003	-846	-847	T	110	QPN	ZG	0.00	900.00	0.38	900.00	3003	-847	-848	S	304	QPN	ZG	0.00	358.15	0.38	358.15
3003	-847	-848	T	110	QPN	ZG	0.00	900.00	0.38	900.00	3003	-848	-849	S	304	QPN	ZG	0.00	358.15	0.38	358.15
3003	-848	-849	T	110	QPN	ZG	0.00	900.00	0.38	900.00	3003	-849	-850	S	304	QPN	ZG	0.00	358.15	0.03	358.15
3003	-849	-850	T	110	QPN	ZG	0.00	900.00	0.38	900.00	3003	-849	-850	S	304	QPN	ZG	0.03	527.25	0.38	527.25
3003	-850	311	S	304	QPN	ZG	0.00	527.25	0.38	527.25	3003	-850	311	T	110	QPN	ZG	0.00	900.00	0.38	900.00
3003	311	-851	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	311	-851	T	111	QPN	ZG	0.00	900.00	0.40	900.00
3003	-851	-852	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-851	-852	T	111	QPN	ZG	0.00	900.00	0.40	900.00
3003	-852	-853	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-852	-853	T	111	QPN	ZG	0.00	900.00	0.40	900.00
3003	-853	-854	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-853	-854	T	111	QPN	ZG	0.00	900.00	0.40	900.00
3003	-854	-855	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-854	-855	T	111	QPN	ZG	0.00	900.00	0.40	900.00
3003	-855	-856	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-855	-856	T	111	QPN	ZG	0.00	900.00	0.40	900.00
3003	-856	-857	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-856	-857	T	111	QPN	ZG	0.00	900.00	0.40	900.00
3003	-857	312	S	304	QPN	ZG	0.00	527.25	0.40	527.25	3003	-857	312	T	111	QPN	ZG	0.00	900.00	0.40	900.00
3003	312	-858	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	312	-858	T	112	QPN	ZG	0.00	900.00	0.36	900.00
3003	-858	-859	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-858	-859	T	112	QPN	ZG	0.00	900.00	0.36	900.00
3003	-859	-860	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-859	-860	T	112	QPN	ZG	0.00	900.00	0.36	900.00
3003	-860	-861	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-860	-861	T	112	QPN	ZG	0.00	900.00	0.36	900.00
3003	-861	-862	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-861	-862	T	112	QPN	ZG	0.00	900.00	0.36	900.00
3003	-862	-863	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-862	-863	T	112	QPN	ZG	0.00	900.00	0.36	900.00
3003	-863	-864	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-863	-864	T	112	QPN	ZG	0.00	900.00	0.36	900.00
3003	-864	-865	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-864	-865	T	112	QPN	ZG	0.00	900.00	0.36	900.00
3003	-865	313	S	304	QPN	ZG	0.00	527.25	0.36	527.25	3003	-865	313	T	112	QPN	ZG	0.00	900.00	0.36	900.00
3003	313	314	S	307	QPN	ZG	0.00	527.25	3.25	527.25	3003	313	314	T	113	QPN	ZG	0.00	900.00	3.25	900.00
3003	314	315	S	307	QPN	ZG	0.00	527.25	3.25	527.25	3003	314	315	T	114	QPN	ZG	0.00	900.00	3.25	900.00
3003	315	-866	S	307	QPN	ZG	0.00	527.25	0.36	527.25	3003	315	-866	T	115	QPN	ZG	0.00	900.00	0.36	900.00
3003	-866	-867	S	307	QPN	ZG	0.00	527.25	0.36	527.25	3003	-866	-867	T	115	QPN	ZG	0.00	900.00	0.36	900.00
3003	-867	-868	S	307	QPN	ZG	0.00	527.25	0.36	527.25	3003	-867	-868	T	115	QPN	ZG	0.00	900.00	0.36	900.00
3003	-868	-869	S	307	QPN	ZG	0.00	527.25	0.36	527.25	3003	-868	-869	T	115	QPN	ZG	0.00	900.00	0.36	900.00
3003	-869	-870	S	307	QPN	ZG	0.00	527.25	0.36	527.25	3003	-869	-870	T	115	QPN	ZG	0.00	900.00	0.36	900.00
3003	-870	-871	S	307	QPN	ZG	0.00	527.25	0.36	527.25	3003	-870	-871	T	115	QPN	ZG	0.00	900.00	0.36	900.00
3003	-871	-872	S	307	QPN	ZG	0.00	527.25	0.36	527.25	3003	-871	-872	T	115	QPN	ZG	0.00	900.00	0.36	900.00



# Relazione di calcolo

3003	-872	-873	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-873	316	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	316	-874	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-874	-875	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-875	-876	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-876	-877	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-877	-878	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-878	-879	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-879	-880	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-880	-881	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-881	317	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	317	-882	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-882	-883	S	307	QPN	ZG	0.00	527.25	0.29	527.25
3003	-882	-883	S	307	QPN	ZG	0.29	358.15	0.36	358.15
3003	-883	-884	T	117	QPN	ZG	0.00	900.00	0.36	900.00
3003	-884	-885	T	117	QPN	ZG	0.00	900.00	0.36	900.00
3003	-885	-886	T	117	QPN	ZG	0.00	900.00	0.36	900.00
3003	-886	-887	T	117	QPN	ZG	0.00	900.00	0.36	900.00
3003	-887	-888	T	117	QPN	ZG	0.00	900.00	0.36	900.00
3003	-888	318	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	318	-889	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-889	-890	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-890	-891	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-891	-892	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-892	-893	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-893	-894	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-894	-895	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-895	-896	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-896	319	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	319	-897	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-897	-898	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-898	-899	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-899	-900	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-900	-901	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-901	-902	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-902	-903	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-903	-904	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3003	-904	320	S	307	QPN	ZG	0.00	527.25	0.36	527.25
3007	325	326	S	304	QPN	ZG	0.00	527.25	3.25	527.25
3007	326	327	S	304	QPN	ZG	0.00	527.25	3.25	527.25
3007	327	389	S	304	QPN	ZG	0.00	527.25	3.20	527.25
3007	389	390	S	304	QPN	ZG	0.00	527.25	0.70	527.25
3007	392	328	S	303	QPN	ZG	0.00	491.15	3.18	491.15
3007	328	329	S	303	QPN	ZG	0.00	491.15	3.25	491.15
3007	329	330	S	302	QPN	ZG	0.00	491.15	3.25	491.15
3007	330	331	S	302	QPN	ZG	0.00	491.15	3.25	491.15
3007	331	332	S	302	QPN	ZG	0.00	491.15	3.25	491.15
3007	332	393	S	302	QPN	ZG	0.00	491.15	3.25	491.15
3007	393	394	S	307	QPN	ZG	0.00	527.25	0.65	527.25
3007	396	333	S	306	QPN	ZG	0.00	491.15	3.23	491.15
3007	333	334	S	306	QPN	ZG	0.00	491.15	3.23	491.15
3009	341	342	S	305	QPN	ZG	0.00	491.15	3.25	491.15
3009	342	343	S	305	QPN	ZG	0.00	491.15	3.25	491.15

3003	-872	-873	T	115	QPN	ZG	0.00	900.00	0.36	900.00
3003	-873	316	T	115	QPN	ZG	0.00	900.00	0.36	900.00
3003	316	-874	T	116	QPN	ZG	0.00	900.00	0.36	900.00
3003	-874	-875	T	116	QPN	ZG	0.00	900.00	0.36	900.00
3003	-875	-876	T	116	QPN	ZG	0.00	900.00	0.36	900.00
3003	-876	-877	T	116	QPN	ZG	0.00	900.00	0.36	900.00
3003	-877	-878	T	116	QPN	ZG	0.00	900.00	0.36	900.00
3003	-878	-879	T	116	QPN	ZG	0.00	900.00	0.36	900.00
3003	-879	-880	T	116	QPN	ZG	0.00	900.00	0.36	900.00
3003	-880	-881	T	116	QPN	ZG	0.00	900.00	0.36	900.00
3003	-881	317	T	116	QPN	ZG	0.00	900.00	0.36	900.00
3003	317	-882	T	117	QPN	ZG	0.00	900.00	0.36	900.00
3003	-882	-883	T	117	QPN	ZG	0.00	900.00	0.36	900.00
3003	-883	-884	S	307	QPN	ZG	0.00	358.15	0.36	358.15
3003	-884	-885	S	307	QPN	ZG	0.00	358.15	0.36	358.15
3003	-885	-886	S	307	QPN	ZG	0.00	358.15	0.36	358.15
3003	-886	-887	S	307	QPN	ZG	0.00	358.15	0.36	358.15
3003	-887	-888	S	307	QPN	ZG	0.00	358.15	0.06	358.15
3003	-887	-888	S	307	QPN	ZG	0.06	527.25	0.36	527.25
3003	-888	318	T	117	QPN	ZG	0.00	900.00	0.36	900.00
3003	318	-889	T	118	QPN	ZG	0.00	900.00	0.36	900.00
3003	-889	-890	T	118	QPN	ZG	0.00	900.00	0.36	900.00
3003	-890	-891	T	118	QPN	ZG	0.00	900.00	0.36	900.00
3003	-891	-892	T	118	QPN	ZG	0.00	900.00	0.36	900.00
3003	-892	-893	T	118	QPN	ZG	0.00	900.00	0.36	900.00
3003	-893	-894	T	118	QPN	ZG	0.00	900.00	0.36	900.00
3003	-894	-895	T	118	QPN	ZG	0.00	900.00	0.36	900.00
3003	-895	-896	T	118	QPN	ZG	0.00	900.00	0.36	900.00
3003	-896	319	T	118	QPN	ZG	0.00	900.00	0.36	900.00
3003	319	-897	T	119	QPN	ZG	0.00	900.00	0.36	900.00
3003	-897	-898	T	119	QPN	ZG	0.00	900.00	0.36	900.00
3003	-898	-899	T	119	QPN	ZG	0.00	900.00	0.36	900.00
3003	-899	-900	T	119	QPN	ZG	0.00	900.00	0.36	900.00
3003	-900	-901	T	119	QPN	ZG	0.00	900.00	0.36	900.00
3003	-901	-902	T	119	QPN	ZG	0.00	900.00	0.36	900.00
3003	-902	-903	T	119	QPN	ZG	0.00	900.00	0.36	900.00
3003	-903	-904	T	119	QPN	ZG	0.00	900.00	0.36	900.00
3003	-904	320	T	119	QPN	ZG	0.00	900.00	0.36	900.00
3007	325	326	S	305	QPN	ZG	0.00	491.15	3.25	491.15
3007	326	327	S	305	QPN	ZG	0.00	491.15	3.25	491.15
3007	327	389	S	305	QPN	ZG	0.00	491.15	3.20	491.15
3007	391	392	S	304	QPN	ZG	0.00	527.25	0.72	527.25
3007	392	328	S	304	QPN	ZG	0.00	527.25	3.18	527.25
3007	328	329	S	304	QPN	ZG	0.00	527.25	3.25	527.25
3007	329	330	S	307	QPN	ZG	0.00	527.25	3.25	527.25
3007	330	331	S	307	QPN	ZG	0.00	527.25	3.25	527.25
3007	331	332	S	307	QPN	ZG	0.00	527.25	3.25	527.25
3007	332	393	S	307	QPN	ZG	0.00	527.25	3.25	527.25
3007	395	396	S	307	QPN	ZG	0.00	527.25	0.67	527.25
3007	396	333	S	307	QPN	ZG	0.00	527.25	3.23	527.25
3007	333	334	S	307	QPN	ZG	0.00	527.25	3.23	527.25
3009	341	342	T	126	QPN	ZG	0.00	900.00	3.25	900.00
3009	342	343	T	127	QPN	ZG	0.00	900.00	3.25	900.00



# Relazione di calcolo

3009	343	344	S	305	QPN	ZG	0.00	491.15	3.20	491.15
3009	344	-956	T	129	QPN	ZG	0.00	450.00	0.75	450.00
3009	-957	-958	T	129	QPN	ZG	0.00	450.00	0.75	450.00
3009	345	346	S	303	QPN	ZG	0.00	491.15	3.18	491.15
3009	346	347	S	303	QPN	ZG	0.00	491.15	3.25	491.15
3009	347	348	S	302	QPN	ZG	0.00	491.15	3.25	491.15
3009	348	349	S	302	QPN	ZG	0.00	491.15	3.25	491.15
3009	349	350	S	302	QPN	ZG	0.00	491.15	3.25	491.15
3009	350	351	S	302	QPN	ZG	0.00	491.15	3.25	491.15
3009	351	-959	T	136	QPN	ZG	0.00	450.00	0.72	450.00
3009	-960	-961	T	136	QPN	ZG	0.00	450.00	0.72	450.00
3009	352	353	S	306	QPN	ZG	0.00	491.15	3.23	491.15
3009	353	354	S	306	QPN	ZG	0.00	491.15	3.23	491.15
3023	-442	363	T	143	QPN	ZG	0.00	510.00	0.40	510.00
3023	378	-529	T	143	QPN	ZG	0.00	510.00	0.40	510.00
3023	-737	310	T	143	QPN	ZG	0.00	510.00	0.35	510.00
3028	-443	-530	T	144	QPN	ZG	0.00	510.00	0.40	510.00
3028	379	-738	T	144	QPN	ZG	0.00	510.00	0.35	510.00
3036	-446	369	T	145	QPN	ZG	0.00	510.00	0.40	510.00
3036	382	-533	T	145	QPN	ZG	0.00	510.00	0.40	510.00
3036	-741	317	T	145	QPN	ZG	0.00	510.00	0.35	510.00
3040	-447	-534	T	146	QPN	ZG	0.00	510.00	0.40	510.00
3040	383	-742	T	146	QPN	ZG	0.00	510.00	0.35	510.00
3043	320	334	T	147	QPN	ZG	0.00	900.00	5.55	900.00
3049	-908	-909	S	304	QPN	ZG	0.00	358.15	0.79	358.15
3092	-911	-912	S	307	QPN	ZG	0.00	358.15	0.79	358.15
5003	507	508	S	504	QPN	ZG	0.00	527.25	3.25	527.25
5003	508	-1603	S	504	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1603	-1604	S	504	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1604	-1605	S	504	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1605	-1606	S	504	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1606	-1607	S	504	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1607	-1608	S	504	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1608	-1609	S	504	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1609	-1610	S	504	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1610	509	S	504	QPN	ZG	0.00	527.25	0.36	527.25
5003	509	-1611	S	504	QPN	ZG	0.00	527.25	0.40	527.25
5003	-1611	-1612	S	504	QPN	ZG	0.00	527.25	0.40	527.25
5003	-1612	-1613	S	504	QPN	ZG	0.00	527.25	0.40	527.25
5003	-1613	-1614	S	504	QPN	ZG	0.00	527.25	0.40	527.25
5003	-1614	-1615	S	504	QPN	ZG	0.00	527.25	0.40	527.25
5003	-1615	-1616	S	504	QPN	ZG	0.00	527.25	0.40	527.25
5003	-1616	-1617	S	504	QPN	ZG	0.00	527.25	0.40	527.25
5003	-1617	510	S	504	QPN	ZG	0.00	527.25	0.40	527.25
5003	510	-1618	S	504	QPN	ZG	0.00	527.25	0.38	527.25
5003	-1618	-1619	S	504	QPN	ZG	0.00	527.25	0.33	527.25
5003	-1618	-1619	S	504	QPN	ZG	0.33	358.15	0.38	358.15
5003	-1619	-1620	T	210	QPN	ZG	0.00	900.00	0.38	900.00
5003	-1620	-1621	T	210	QPN	ZG	0.00	900.00	0.38	900.00
5003	-1621	-1622	T	210	QPN	ZG	0.00	900.00	0.38	900.00
5003	-1622	-1623	T	210	QPN	ZG	0.00	900.00	0.38	900.00
5003	-1623	-1624	T	210	QPN	ZG	0.00	900.00	0.38	900.00
5003	-1624	511	S	504	QPN	ZG	0.00	527.25	0.38	527.25

3009	343	344	T	128	QPN	ZG	0.00	900.00	3.20	900.00
3009	-956	-957	T	129	QPN	ZG	0.00	450.00	0.75	450.00
3009	-958	345	T	129	QPN	ZG	0.00	450.00	0.75	450.00
3009	345	346	T	130	QPN	ZG	0.00	900.00	3.18	900.00
3009	346	347	T	131	QPN	ZG	0.00	900.00	3.25	900.00
3009	347	348	T	132	QPN	ZG	0.00	900.00	3.25	900.00
3009	348	349	T	133	QPN	ZG	0.00	900.00	3.25	900.00
3009	349	350	T	134	QPN	ZG	0.00	900.00	3.25	900.00
3009	350	351	T	135	QPN	ZG	0.00	900.00	3.25	900.00
3009	-959	-960	T	136	QPN	ZG	0.00	450.00	0.72	450.00
3009	-961	352	T	136	QPN	ZG	0.00	450.00	0.72	450.00
3009	352	353	T	137	QPN	ZG	0.00	900.00	3.23	900.00
3009	353	354	T	138	QPN	ZG	0.00	900.00	3.23	900.00
3023	-529	-442	T	143	QPN	ZG	0.00	510.00	0.40	510.00
3023	378	-737	T	143	QPN	ZG	0.00	510.00	0.35	510.00
3028	364	-443	T	144	QPN	ZG	0.00	510.00	0.40	510.00
3028	-530	379	T	144	QPN	ZG	0.00	510.00	0.40	510.00
3028	-738	311	T	144	QPN	ZG	0.00	510.00	0.35	510.00
3036	-533	-446	T	145	QPN	ZG	0.00	510.00	0.40	510.00
3036	382	-741	T	145	QPN	ZG	0.00	510.00	0.35	510.00
3040	370	-447	T	146	QPN	ZG	0.00	510.00	0.40	510.00
3040	-534	383	T	146	QPN	ZG	0.00	510.00	0.40	510.00
3040	-742	318	T	146	QPN	ZG	0.00	510.00	0.35	510.00
3043	354	334	T	148	QPN	ZG	0.00	900.00	5.17	900.00
3049	-909	-910	S	304	QPN	ZG	0.00	358.15	0.79	358.15
3092	-912	-913	S	307	QPN	ZG	0.00	358.15	0.79	358.15
5003	507	508	T	207	QPN	ZG	0.00	900.00	3.25	900.00
5003	508	-1603	T	208	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1603	-1604	T	208	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1604	-1605	T	208	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1605	-1606	T	208	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1606	-1607	T	208	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1607	-1608	T	208	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1608	-1609	T	208	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1609	-1610	T	208	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1610	509	T	208	QPN	ZG	0.00	900.00	0.36	900.00
5003	509	-1611	T	209	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1611	-1612	T	209	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1612	-1613	T	209	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1613	-1614	T	209	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1614	-1615	T	209	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1615	-1616	T	209	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1616	-1617	T	209	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1617	510	T	209	QPN	ZG	0.00	900.00	0.40	900.00
5003	510	-1618	T	210	QPN	ZG	0.00	900.00	0.38	900.00
5003	-1618	-1619	T	210	QPN	ZG	0.00	900.00	0.38	900.00
5003	-1619	-1620	S	504	QPN	ZG	0.00	358.15	0.38	358.15
5003	-1620	-1621	S	504	QPN	ZG	0.00	358.15	0.38	358.15
5003	-1621	-1622	S	504	QPN	ZG	0.00	358.15	0.38	358.15
5003	-1622	-1623	S	504	QPN	ZG	0.00	358.15	0.38	358.15
5003	-1623	-1624	S	504	QPN	ZG	0.00	358.15	0.03	358.15
5003	-1623	-1624	S	504	QPN	ZG	0.03	527.25	0.38	527.25
5003	-1624	511	T	210	QPN	ZG	0.00	900.00	0.38	900.00



## Relazione di calcolo

5003	511	-1625	S	504	QPN	ZG	0.00	527.25	0.40	527.25	5003	511	-1625	T	211	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1625	-1626	S	504	QPN	ZG	0.00	527.25	0.40	527.25	5003	-1625	-1626	T	211	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1626	-1627	S	504	QPN	ZG	0.00	527.25	0.40	527.25	5003	-1626	-1627	T	211	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1627	-1628	S	504	QPN	ZG	0.00	527.25	0.40	527.25	5003	-1627	-1628	T	211	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1628	-1629	S	504	QPN	ZG	0.00	527.25	0.40	527.25	5003	-1628	-1629	T	211	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1629	-1630	S	504	QPN	ZG	0.00	527.25	0.40	527.25	5003	-1629	-1630	T	211	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1630	-1631	S	504	QPN	ZG	0.00	527.25	0.40	527.25	5003	-1630	-1631	T	211	QPN	ZG	0.00	900.00	0.40	900.00
5003	-1631	512	S	504	QPN	ZG	0.00	527.25	0.40	527.25	5003	-1631	512	T	211	QPN	ZG	0.00	900.00	0.40	900.00
5003	512	-1632	S	504	QPN	ZG	0.00	527.25	0.36	527.25	5003	512	-1632	T	212	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1632	-1633	S	504	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1632	-1633	T	212	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1633	-1634	S	504	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1633	-1634	T	212	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1634	-1635	S	504	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1634	-1635	T	212	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1635	-1636	S	504	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1635	-1636	T	212	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1636	-1637	S	504	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1636	-1637	T	212	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1637	-1638	S	504	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1637	-1638	T	212	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1638	-1639	S	504	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1638	-1639	T	212	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1639	513	S	504	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1639	513	T	212	QPN	ZG	0.00	900.00	0.36	900.00
5003	513	514	S	507	QPN	ZG	0.00	527.25	3.25	527.25	5003	513	514	T	213	QPN	ZG	0.00	900.00	3.25	900.00
5003	514	515	S	507	QPN	ZG	0.00	527.25	3.25	527.25	5003	514	515	T	214	QPN	ZG	0.00	900.00	3.25	900.00
5003	515	-1640	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	515	-1640	T	215	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1640	-1641	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1640	-1641	T	215	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1641	-1642	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1641	1642	T	215	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1642	-1643	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1642	-1643	T	215	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1643	-1644	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1643	-1644	T	215	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1644	-1645	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1644	-1645	T	215	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1645	-1646	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1645	-1646	T	215	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1646	-1647	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1646	-1647	T	215	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1647	516	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1647	516	T	215	QPN	ZG	0.00	900.00	0.36	900.00
5003	516	-1648	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	516	-1648	T	216	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1648	-1649	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1648	-1649	T	216	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1649	-1650	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1649	-1650	T	216	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1650	-1651	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1650	-1651	T	216	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1651	-1652	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1651	-1652	T	216	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1652	-1653	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1652	-1653	T	216	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1653	-1654	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1653	-1654	T	216	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1654	-1655	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1654	-1655	T	216	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1655	517	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1655	517	T	216	QPN	ZG	0.00	900.00	0.36	900.00
5003	517	-1656	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	517	-1656	T	217	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1656	-1657	S	507	QPN	ZG	0.00	527.25	0.29	527.25	5003	-1656	-1657	T	217	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1656	-1657	S	507	QPN	ZG	0.29	358.15	0.36	358.15	5003	-1657	-1658	S	507	QPN	ZG	0.00	358.15	0.36	358.15
5003	-1657	-1658	T	217	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1658	-1659	S	507	QPN	ZG	0.00	358.15	0.36	358.15
5003	-1658	-1659	T	217	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1659	-1660	S	507	QPN	ZG	0.00	358.15	0.36	358.15
5003	-1659	-1660	T	217	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1660	-1661	S	507	QPN	ZG	0.00	358.15	0.36	358.15
5003	-1660	-1661	T	217	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1661	-1662	S	507	QPN	ZG	0.00	358.15	0.06	358.15
5003	-1661	-1662	T	217	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1661	-1662	S	507	QPN	ZG	0.06	527.25	0.36	527.25
5003	-1662	518	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1662	518	T	217	QPN	ZG	0.00	900.00	0.36	900.00
5003	518	-1663	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	518	-1663	T	218	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1663	-1664	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1663	-1664	T	218	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1664	-1665	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1664	-1665	T	218	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1665	-1666	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1665	-1666	T	218	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1666	-1667	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1666	-1667	T	218	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1667	-1668	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1667	-1668	T	218	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1668	-1669	S	507	QPN	ZG	0.00	527.25	0.36	527.25	5003	-1668	-1669	T	218	QPN	ZG	0.00	900.00	0.36	900.00



# Relazione di calcolo

5003	-1669	-1670	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1670	519	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	519	-1671	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1671	-1672	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1672	-1673	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1673	-1674	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1674	-1675	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1675	-1676	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1676	-1677	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1677	-1678	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1678	520	S	507	QPN	ZG	0.00	527.25	0.36	527.25
5007	525	526	S	504	QPN	ZG	0.00	527.25	3.25	527.25
5007	526	527	S	504	QPN	ZG	0.00	527.25	3.25	527.25
5007	527	589	S	504	QPN	ZG	0.00	527.25	3.20	527.25
5007	589	590	S	504	QPN	ZG	0.00	527.25	0.70	527.25
5007	592	528	S	502	QPN	ZG	0.00	491.15	3.18	491.15
5007	528	529	S	502	QPN	ZG	0.00	491.15	3.25	491.15
5007	529	530	S	503	QPN	ZG	0.00	491.15	3.25	491.15
5007	530	531	S	503	QPN	ZG	0.00	491.15	3.25	491.15
5007	531	532	S	503	QPN	ZG	0.00	491.15	3.25	491.15
5007	532	593	S	503	QPN	ZG	0.00	491.15	3.25	491.15
5007	593	594	S	507	QPN	ZG	0.00	527.25	0.65	527.25
5007	596	533	S	506	QPN	ZG	0.00	491.15	3.23	491.15
5007	533	534	S	506	QPN	ZG	0.00	491.15	3.23	491.15
5009	541	542	S	505	QPN	ZG	0.00	491.15	3.25	491.15
5009	542	543	S	505	QPN	ZG	0.00	491.15	3.25	491.15
5009	543	544	S	505	QPN	ZG	0.00	491.15	3.20	491.15
5009	544	545	T	329	QPN	ZG	0.00	450.00	3.00	450.00
5009	545	546	T	230	QPN	ZG	0.00	900.00	3.18	900.00
5009	546	547	T	231	QPN	ZG	0.00	900.00	3.25	900.00
5009	547	548	T	232	QPN	ZG	0.00	900.00	3.25	900.00
5009	548	549	T	233	QPN	ZG	0.00	900.00	3.25	900.00
5009	549	550	T	234	QPN	ZG	0.00	900.00	3.25	900.00
5009	550	551	T	235	QPN	ZG	0.00	900.00	3.25	900.00
5009	552	553	S	506	QPN	ZG	0.00	491.15	3.23	491.15
5009	553	554	S	506	QPN	ZG	0.00	491.15	3.23	491.15
5023	-1216	563	T	243	QPN	ZG	0.00	510.00	0.40	510.00
5023	578	-1303	T	243	QPN	ZG	0.00	510.00	0.40	510.00
5023	-1511	510	T	243	QPN	ZG	0.00	510.00	0.35	510.00
5028	-1217	-1304	T	244	QPN	ZG	0.00	510.00	0.40	510.00
5028	579	-1512	T	244	QPN	ZG	0.00	510.00	0.35	510.00
5036	-1220	569	T	245	QPN	ZG	0.00	510.00	0.40	510.00
5036	582	-1307	T	245	QPN	ZG	0.00	510.00	0.40	510.00
5036	-1515	517	T	245	QPN	ZG	0.00	510.00	0.35	510.00
5040	-1221	-1308	T	246	QPN	ZG	0.00	510.00	0.40	510.00
5040	583	-1516	T	246	QPN	ZG	0.00	510.00	0.35	510.00
5043	520	534	T	247	QPN	ZG	0.00	900.00	5.55	900.00
7003	707	708	S	702	QPN	ZG	0.00	527.25	3.25	527.25
7003	708	-2368	S	702	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2368	-2369	S	702	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2369	-2370	S	702	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2370	-2371	S	702	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2371	-2372	S	702	QPN	ZG	0.00	527.25	0.36	527.25

5003	-1669	-1670	T	218	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1670	519	T	218	QPN	ZG	0.00	900.00	0.36	900.00
5003	519	-1671	T	219	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1671	-1672	T	219	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1672	-1673	T	219	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1673	-1674	T	219	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1674	-1675	T	219	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1675	-1676	T	219	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1676	-1677	T	219	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1677	-1678	T	219	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1678	520	T	219	QPN	ZG	0.00	900.00	0.36	900.00
5007	525	526	S	505	QPN	ZG	0.00	491.15	3.25	491.15
5007	526	527	S	505	QPN	ZG	0.00	491.15	3.25	491.15
5007	527	589	S	505	QPN	ZG	0.00	491.15	3.20	491.15
5007	591	592	S	504	QPN	ZG	0.00	527.25	0.72	527.25
5007	592	528	S	504	QPN	ZG	0.00	527.25	3.18	527.25
5007	528	529	S	504	QPN	ZG	0.00	527.25	3.25	527.25
5007	529	530	S	507	QPN	ZG	0.00	527.25	3.25	527.25
5007	530	531	S	507	QPN	ZG	0.00	527.25	3.25	527.25
5007	531	532	S	507	QPN	ZG	0.00	527.25	3.25	527.25
5007	532	593	S	507	QPN	ZG	0.00	527.25	3.25	527.25
5007	595	596	S	507	QPN	ZG	0.00	527.25	0.67	527.25
5007	596	533	S	507	QPN	ZG	0.00	527.25	3.23	527.25
5007	533	534	S	507	QPN	ZG	0.00	527.25	3.23	527.25
5009	541	542	T	226	QPN	ZG	0.00	900.00	3.25	900.00
5009	542	543	T	227	QPN	ZG	0.00	900.00	3.25	900.00
5009	543	544	T	228	QPN	ZG	0.00	900.00	3.20	900.00
5009	545	546	S	502	QPN	ZG	0.00	491.15	3.18	491.15
5009	546	547	S	502	QPN	ZG	0.00	491.15	3.25	491.15
5009	547	548	S	503	QPN	ZG	0.00	491.15	3.25	491.15
5009	548	549	S	503	QPN	ZG	0.00	491.15	3.25	491.15
5009	549	550	S	503	QPN	ZG	0.00	491.15	3.25	491.15
5009	550	551	S	503	QPN	ZG	0.00	491.15	3.25	491.15
5009	551	552	T	336	QPN	ZG	0.00	450.00	2.90	450.00
5009	552	553	T	237	QPN	ZG	0.00	900.00	3.23	900.00
5009	553	554	T	238	QPN	ZG	0.00	900.00	3.23	900.00
5023	-1303	-1216	T	243	QPN	ZG	0.00	510.00	0.40	510.00
5023	578	-1511	T	243	QPN	ZG	0.00	510.00	0.35	510.00
5028	564	-1217	T	244	QPN	ZG	0.00	510.00	0.40	510.00
5028	-1304	579	T	244	QPN	ZG	0.00	510.00	0.40	510.00
5028	-1512	511	T	244	QPN	ZG	0.00	510.00	0.35	510.00
5036	-1307	-1220	T	245	QPN	ZG	0.00	510.00	0.40	510.00
5036	582	-1515	T	245	QPN	ZG	0.00	510.00	0.35	510.00
5040	570	-1221	T	246	QPN	ZG	0.00	510.00	0.40	510.00
5040	-1308	583	T	246	QPN	ZG	0.00	510.00	0.40	510.00
5040	-1516	518	T	246	QPN	ZG	0.00	510.00	0.35	510.00
5043	554	534	T	248	QPN	ZG	0.00	900.00	5.17	900.00
7003	707	708	T	307	QPN	ZG	0.00	900.00	3.25	900.00
7003	708	-2368	T	308	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2368	-2369	T	308	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2369	-2370	T	308	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2370	-2371	T	308	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2371	-2372	T	308	QPN	ZG	0.00	900.00	0.36	900.00



## Relazione di calcolo

7003	-2372	-2373	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2372	-2373	T	308	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2373	-2374	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2373	-2374	T	308	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2374	-2375	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2374	-2375	T	308	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2375	709	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2375	709	T	308	QPN	ZG	0.00	900.00	0.36	900.00
7003	709	-2376	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	709	-2376	T	309	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2376	-2377	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2376	-2377	T	309	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2377	-2378	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2377	-2378	T	309	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2378	-2379	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2378	-2379	T	309	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2379	-2380	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2379	-2380	T	309	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2380	-2381	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2380	-2381	T	309	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2381	-2382	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2381	-2382	T	309	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2382	710	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2382	710	T	309	QPN	ZG	0.00	900.00	0.40	900.00
7003	710	-2383	S	702	QPN	ZG	0.00	527.25	0.38	527.25	7003	710	-2383	T	310	QPN	ZG	0.00	900.00	0.38	900.00
7003	-2383	-2384	S	702	QPN	ZG	0.00	527.25	0.33	527.25	7003	-2383	-2384	T	310	QPN	ZG	0.00	900.00	0.38	900.00
7003	-2383	-2384	S	702	QPN	ZG	0.33	358.15	0.38	358.15	7003	-2384	-2385	S	702	QPN	ZG	0.00	358.15	0.38	358.15
7003	-2384	-2385	T	310	QPN	ZG	0.00	900.00	0.38	900.00	7003	-2385	-2386	S	702	QPN	ZG	0.00	358.15	0.38	358.15
7003	-2385	-2386	T	310	QPN	ZG	0.00	900.00	0.38	900.00	7003	-2386	-2387	S	702	QPN	ZG	0.00	358.15	0.38	358.15
7003	-2386	-2387	T	310	QPN	ZG	0.00	900.00	0.38	900.00	7003	-2387	-2388	S	702	QPN	ZG	0.00	358.15	0.38	358.15
7003	-2387	-2388	T	310	QPN	ZG	0.00	900.00	0.38	900.00	7003	-2388	-2389	S	702	QPN	ZG	0.00	358.15	0.03	358.15
7003	-2388	-2389	T	310	QPN	ZG	0.00	900.00	0.38	900.00	7003	-2388	-2389	S	702	QPN	ZG	0.03	527.25	0.38	527.25
7003	-2389	711	S	702	QPN	ZG	0.00	527.25	0.38	527.25	7003	-2389	711	T	310	QPN	ZG	0.00	900.00	0.38	900.00
7003	711	-2390	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	711	-2390	T	311	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2390	-2391	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2390	-2391	T	311	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2391	-2392	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2391	-2392	T	311	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2392	-2393	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2392	-2393	T	311	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2393	-2394	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2393	-2394	T	311	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2394	-2395	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2394	-2395	T	311	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2395	-2396	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2395	-2396	T	311	QPN	ZG	0.00	900.00	0.40	900.00
7003	-2396	712	S	702	QPN	ZG	0.00	527.25	0.40	527.25	7003	-2396	712	T	311	QPN	ZG	0.00	900.00	0.40	900.00
7003	712	-2397	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	712	-2397	T	312	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2397	-2398	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2397	-2398	T	312	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2398	-2399	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2398	-2399	T	312	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2399	-2400	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2399	-2400	T	312	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2400	-2401	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2400	-2401	T	312	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2401	-2402	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2401	-2402	T	312	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2402	-2403	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2402	-2403	T	312	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2403	-2404	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2403	-2404	T	312	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2404	713	S	702	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2404	713	T	312	QPN	ZG	0.00	900.00	0.36	900.00
7003	713	714	S	706	QPN	ZG	0.00	527.25	3.25	527.25	7003	713	714	T	313	QPN	ZG	0.00	900.00	3.25	900.00
7003	714	715	S	706	QPN	ZG	0.00	527.25	3.25	527.25	7003	714	715	T	314	QPN	ZG	0.00	900.00	3.25	900.00
7003	715	-2405	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	715	-2405	T	315	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2405	-2406	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2405	-2406	T	315	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2406	-2407	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2406	-2407	T	315	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2407	-2408	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2407	-2408	T	315	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2408	-2409	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2408	-2409	T	315	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2409	-2410	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2409	-2410	T	315	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2410	-2411	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2410	-2411	T	315	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2411	-2412	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2411	-2412	T	315	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2412	716	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2412	716	T	315	QPN	ZG	0.00	900.00	0.36	900.00
7003	716	-2413	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	716	-2413	T	316	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2413	-2414	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2413	-2414	T	316	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2414	-2415	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2414	-2415	T	316	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2415	-2416	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2415	-2416	T	316	QPN	ZG	0.00	900.00	0.36	900.00



# Relazione di calcolo

7003	-2416	-2417	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2416	-2417	T	316	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2417	-2418	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2417	-2418	T	316	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2418	-2419	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2418	-2419	T	316	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2419	-2420	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2419	-2420	T	316	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2420	717	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2420	717	T	316	QPN	ZG	0.00	900.00	0.36	900.00
7003	717	-2421	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	717	-2421	T	317	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2421	-2422	S	706	QPN	ZG	0.00	527.25	0.29	527.25	7003	-2421	-2422	T	317	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2421	-2422	S	706	QPN	ZG	0.29	358.15	0.36	358.15	7003	-2422	-2423	S	706	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2422	-2423	T	317	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2423	-2424	S	706	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2423	-2424	T	317	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2424	-2425	S	706	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2424	-2425	T	317	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2425	-2426	S	706	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2425	-2426	T	317	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2426	-2427	S	706	QPN	ZG	0.00	358.15	0.06	358.15
7003	-2426	-2427	T	317	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2426	-2427	S	706	QPN	ZG	0.06	527.25	0.36	527.25
7003	-2427	718	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2427	718	T	317	QPN	ZG	0.00	900.00	0.36	900.00
7003	718	-2428	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	718	-2428	T	318	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2428	-2429	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2428	-2429	T	318	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2429	-2430	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2429	-2430	T	318	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2430	-2431	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2430	-2431	T	318	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2431	-2432	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2431	-2432	T	318	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2432	-2433	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2432	-2433	T	318	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2433	-2434	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2433	-2434	T	318	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2434	-2435	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2434	-2435	T	318	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2435	719	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2435	719	T	318	QPN	ZG	0.00	900.00	0.36	900.00
7003	719	-2436	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	719	-2436	T	319	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2436	-2437	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2436	-2437	T	319	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2437	-2438	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2437	-2438	T	319	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2438	-2439	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2438	-2439	T	319	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2439	-2440	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2439	-2440	T	319	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2440	-2441	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2440	-2441	T	319	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2441	-2442	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2441	-2442	T	319	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2442	-2443	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2442	-2443	T	319	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2443	720	S	706	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2443	720	T	319	QPN	ZG	0.00	900.00	0.36	900.00
7007	725	726	S	702	QPN	ZG	0.00	527.25	3.25	527.25	7007	725	726	S	704	QPN	ZG	0.00	491.15	3.25	491.15
7007	726	727	S	702	QPN	ZG	0.00	527.25	3.25	527.25	7007	726	727	S	704	QPN	ZG	0.00	491.15	3.25	491.15
7007	727	789	S	702	QPN	ZG	0.00	527.25	3.20	527.25	7007	727	789	S	704	QPN	ZG	0.00	491.15	3.20	491.15
7007	789	790	S	702	QPN	ZG	0.00	527.25	0.70	527.25	7007	791	792	S	702	QPN	ZG	0.00	527.25	0.72	527.25
7007	792	728	S	702	QPN	ZG	0.00	527.25	3.18	527.25	7007	792	728	S	703	QPN	ZG	0.00	491.15	3.18	491.15
7007	728	729	S	702	QPN	ZG	0.00	527.25	3.25	527.25	7007	728	729	S	703	QPN	ZG	0.00	491.15	3.25	491.15
7007	729	730	S	706	QPN	ZG	0.00	527.25	3.25	527.25	7007	729	730	S	707	QPN	ZG	0.00	491.15	3.25	491.15
7007	730	731	S	706	QPN	ZG	0.00	527.25	3.25	527.25	7007	730	731	S	707	QPN	ZG	0.00	491.15	3.25	491.15
7007	731	732	S	706	QPN	ZG	0.00	527.25	3.25	527.25	7007	731	732	S	707	QPN	ZG	0.00	491.15	3.25	491.15
7007	732	793	S	706	QPN	ZG	0.00	527.25	3.25	527.25	7007	732	793	S	707	QPN	ZG	0.00	491.15	3.25	491.15
7007	793	794	S	706	QPN	ZG	0.00	527.25	0.65	527.25	7007	795	796	S	706	QPN	ZG	0.00	527.25	0.67	527.25
7007	796	733	S	705	QPN	ZG	0.00	491.15	3.23	491.15	7007	796	733	S	706	QPN	ZG	0.00	527.25	3.23	527.25
7007	733	734	S	705	QPN	ZG	0.00	491.15	3.23	491.15	7007	733	734	S	706	QPN	ZG	0.00	527.25	3.23	527.25
7009	741	742	S	704	QPN	ZG	0.00	491.15	3.25	491.15	7009	741	742	T	326	QPN	ZG	0.00	900.00	3.25	900.00
7009	742	743	S	704	QPN	ZG	0.00	491.15	3.25	491.15	7009	742	743	T	327	QPN	ZG	0.00	900.00	3.25	900.00
7009	743	744	S	704	QPN	ZG	0.00	491.15	3.20	491.15	7009	743	744	T	328	QPN	ZG	0.00	900.00	3.20	900.00
7009	744	745	T	529	QPN	ZG	0.00	450.00	3.00	450.00	7009	745	746	S	703	QPN	ZG	0.00	491.15	3.18	491.15
7009	745	746	T	330	QPN	ZG	0.00	900.00	3.18	900.00	7009	746	747	S	703	QPN	ZG	0.00	491.15	3.25	491.15
7009	746	747	T	331	QPN	ZG	0.00	900.00	3.25	900.00	7009	747	748	S	707	QPN	ZG	0.00	491.15	3.25	491.15
7009	747	748	T	332	QPN	ZG	0.00	900.00	3.25	900.00	7009	748	749	S	707	QPN	ZG	0.00	491.15	3.25	491.15
7009	748	749	T	333	QPN	ZG	0.00	900.00	3.25	900.00	7009	749	750	S	707	QPN	ZG	0.00	491.15	3.25	491.15



# Relazione di calcolo

7009	749	750	T	334	QPN	ZG	0.00	900.00	3.25	900.00
7009	750	751	T	335	QPN	ZG	0.00	900.00	3.25	900.00
7009	752	753	S	705	QPN	ZG	0.00	491.15	3.23	491.15
7009	753	754	S	705	QPN	ZG	0.00	491.15	3.23	491.15
7023	-1981	763	T	343	QPN	ZG	0.00	510.00	0.40	510.00
7023	778	-2068	T	343	QPN	ZG	0.00	510.00	0.40	510.00
7023	-2276	710	T	343	QPN	ZG	0.00	510.00	0.35	510.00
7028	-1982	-2069	T	344	QPN	ZG	0.00	510.00	0.40	510.00
7028	779	-2277	T	344	QPN	ZG	0.00	510.00	0.35	510.00
7036	-1985	769	T	345	QPN	ZG	0.00	510.00	0.40	510.00
7036	782	-2072	T	345	QPN	ZG	0.00	510.00	0.40	510.00
7036	-2280	717	T	345	QPN	ZG	0.00	510.00	0.35	510.00
7040	-1986	-2073	T	346	QPN	ZG	0.00	510.00	0.40	510.00
7040	783	-2281	T	346	QPN	ZG	0.00	510.00	0.35	510.00
7043	720	734	T	347	QPN	ZG	0.00	900.00	5.55	900.00
9003	907	908	S	904	QPN	ZG	0.00	527.25	3.25	527.25
9003	908	-3133	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3133	-3134	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3134	-3135	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3135	-3136	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3136	-3137	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3137	-3138	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3138	-3139	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3139	-3140	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3140	909	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	909	-3141	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3141	-3142	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3142	-3143	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3143	-3144	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3144	-3145	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3145	-3146	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3146	-3147	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3147	910	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	910	-3148	S	904	QPN	ZG	0.00	527.25	0.38	527.25
9003	-3148	-3149	S	904	QPN	ZG	0.00	527.25	0.33	527.25
9003	-3148	-3149	S	904	QPN	ZG	0.33	358.15	0.38	358.15
9003	-3149	-3150	T	410	QPN	ZG	0.00	900.00	0.38	900.00
9003	-3150	-3151	T	410	QPN	ZG	0.00	900.00	0.38	900.00
9003	-3151	-3152	T	410	QPN	ZG	0.00	900.00	0.38	900.00
9003	-3152	-3153	T	410	QPN	ZG	0.00	900.00	0.38	900.00
9003	-3153	-3154	T	410	QPN	ZG	0.00	900.00	0.38	900.00
9003	-3154	911	S	904	QPN	ZG	0.00	527.25	0.38	527.25
9003	911	-3155	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3155	-3156	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3156	-3157	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3157	-3158	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3158	-3159	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3159	-3160	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3160	-3161	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	-3161	912	S	904	QPN	ZG	0.00	527.25	0.40	527.25
9003	912	-3162	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3162	-3163	S	904	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3163	-3164	S	904	QPN	ZG	0.00	527.25	0.36	527.25

7009	750	751	S	707	QPN	ZG	0.00	491.15	3.25	491.15
7009	751	752	T	536	QPN	ZG	0.00	450.00	2.90	450.00
7009	752	753	T	337	QPN	ZG	0.00	900.00	3.23	900.00
7009	753	754	T	338	QPN	ZG	0.00	900.00	3.23	900.00
7023	-2068	-1981	T	343	QPN	ZG	0.00	510.00	0.40	510.00
7023	778	-2276	T	343	QPN	ZG	0.00	510.00	0.35	510.00
7028	764	-1982	T	344	QPN	ZG	0.00	510.00	0.40	510.00
7028	-2069	779	T	344	QPN	ZG	0.00	510.00	0.40	510.00
7028	-2277	711	T	344	QPN	ZG	0.00	510.00	0.35	510.00
7036	-2072	-1985	T	345	QPN	ZG	0.00	510.00	0.40	510.00
7036	782	-2280	T	345	QPN	ZG	0.00	510.00	0.35	510.00
7040	770	-1986	T	346	QPN	ZG	0.00	510.00	0.40	510.00
7040	-2073	783	T	346	QPN	ZG	0.00	510.00	0.40	510.00
7040	-2281	718	T	346	QPN	ZG	0.00	510.00	0.35	510.00
7043	754	734	T	348	QPN	ZG	0.00	900.00	5.17	900.00
9003	907	908	T	407	QPN	ZG	0.00	900.00	3.25	900.00
9003	908	-3133	T	408	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3133	-3134	T	408	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3134	-3135	T	408	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3135	-3136	T	408	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3136	-3137	T	408	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3137	-3138	T	408	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3138	-3139	T	408	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3139	-3140	T	408	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3140	909	T	408	QPN	ZG	0.00	900.00	0.36	900.00
9003	909	-3141	T	409	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3141	-3142	T	409	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3142	-3143	T	409	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3143	-3144	T	409	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3144	-3145	T	409	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3145	-3146	T	409	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3146	-3147	T	409	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3147	910	T	409	QPN	ZG	0.00	900.00	0.40	900.00
9003	910	-3148	T	410	QPN	ZG	0.00	900.00	0.38	900.00
9003	-3148	-3149	T	410	QPN	ZG	0.00	900.00	0.38	900.00
9003	-3149	-3150	S	904	QPN	ZG	0.00	358.15	0.38	358.15
9003	-3150	-3151	S	904	QPN	ZG	0.00	358.15	0.38	358.15
9003	-3151	-3152	S	904	QPN	ZG	0.00	358.15	0.38	358.15
9003	-3152	-3153	S	904	QPN	ZG	0.00	358.15	0.38	358.15
9003	-3153	-3154	S	904	QPN	ZG	0.00	358.15	0.03	358.15
9003	-3153	-3154	S	904	QPN	ZG	0.03	527.25	0.38	527.25
9003	-3154	911	T	410	QPN	ZG	0.00	900.00	0.38	900.00
9003	911	-3155	T	411	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3155	-3156	T	411	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3156	-3157	T	411	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3157	-3158	T	411	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3158	-3159	T	411	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3159	-3160	T	411	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3160	-3161	T	411	QPN	ZG	0.00	900.00	0.40	900.00
9003	-3161	912	T	411	QPN	ZG	0.00	900.00	0.40	900.00
9003	912	-3162	T	412	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3162	-3163	T	412	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3163	-3164	T	412	QPN	ZG	0.00	900.00	0.36	900.00



## Relazione di calcolo

9003	-3164	-3165	S	904	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3164	-3165	T	412	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3165	-3166	S	904	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3165	-3166	T	412	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3166	-3167	S	904	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3166	-3167	T	412	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3167	-3168	S	904	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3167	-3168	T	412	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3168	-3169	S	904	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3168	-3169	T	412	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3169	913	S	904	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3169	913	T	412	QPN	ZG	0.00	900.00	0.36	900.00
9003	913	914	S	907	QPN	ZG	0.00	527.25	3.25	527.25	9003	913	914	T	413	QPN	ZG	0.00	900.00	3.25	900.00
9003	914	915	S	907	QPN	ZG	0.00	527.25	3.25	527.25	9003	914	915	T	414	QPN	ZG	0.00	900.00	3.25	900.00
9003	915	-3170	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	915	-3170	T	415	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3170	-3171	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3170	-3171	T	415	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3171	-3172	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3171	-3172	T	415	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3172	-3173	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3172	-3173	T	415	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3173	-3174	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3173	-3174	T	415	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3174	-3175	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3174	-3175	T	415	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3175	-3176	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3175	-3176	T	415	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3176	-3177	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3176	-3177	T	415	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3177	916	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3177	916	T	415	QPN	ZG	0.00	900.00	0.36	900.00
9003	916	-3178	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	916	-3178	T	416	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3178	-3179	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3178	-3179	T	416	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3179	-3180	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3179	-3180	T	416	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3180	-3181	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3180	-3181	T	416	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3181	-3182	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3181	-3182	T	416	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3182	-3183	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3182	-3183	T	416	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3183	-3184	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3183	-3184	T	416	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3184	-3185	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3184	-3185	T	416	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3185	917	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3185	917	T	416	QPN	ZG	0.00	900.00	0.36	900.00
9003	917	-3186	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	917	-3186	T	417	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3186	-3187	S	907	QPN	ZG	0.00	527.25	0.29	527.25	9003	-3186	-3187	T	417	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3186	-3187	S	907	QPN	ZG	0.29	358.15	0.36	358.15	9003	-3187	-3188	S	907	QPN	ZG	0.00	358.15	0.36	358.15
9003	-3187	-3188	T	417	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3188	-3189	S	907	QPN	ZG	0.00	358.15	0.36	358.15
9003	-3188	-3189	T	417	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3189	-3190	S	907	QPN	ZG	0.00	358.15	0.36	358.15
9003	-3189	-3190	T	417	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3190	-3191	S	907	QPN	ZG	0.00	358.15	0.36	358.15
9003	-3190	-3191	T	417	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3191	-3192	S	907	QPN	ZG	0.00	358.15	0.06	358.15
9003	-3191	-3192	T	417	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3191	-3192	S	907	QPN	ZG	0.06	527.25	0.36	527.25
9003	-3192	918	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3192	918	T	417	QPN	ZG	0.00	900.00	0.36	900.00
9003	918	-3193	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	918	-3193	T	418	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3193	-3194	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3193	-3194	T	418	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3194	-3195	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3194	-3195	T	418	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3195	-3196	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3195	-3196	T	418	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3196	-3197	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3196	-3197	T	418	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3197	-3198	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3197	-3198	T	418	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3198	-3199	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3198	-3199	T	418	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3199	-3200	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3199	-3200	T	418	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3200	919	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3200	919	T	418	QPN	ZG	0.00	900.00	0.36	900.00
9003	919	-3201	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	919	-3201	T	419	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3201	-3202	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3201	-3202	T	419	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3202	-3203	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3202	-3203	T	419	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3203	-3204	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3203	-3204	T	419	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3204	-3205	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3204	-3205	T	419	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3205	-3206	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3205	-3206	T	419	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3206	-3207	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3206	-3207	T	419	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3207	-3208	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3207	-3208	T	419	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3208	920	S	907	QPN	ZG	0.00	527.25	0.36	527.25	9003	-3208	920	T	419	QPN	ZG	0.00	900.00	0.36	900.00



# Relazione di calcolo

9007	925	926	S	904	QPN	ZG	0.00	527.25	3.25	527.25
9007	926	927	S	904	QPN	ZG	0.00	527.25	3.25	527.25
9007	927	989	S	904	QPN	ZG	0.00	527.25	3.20	527.25
9007	989	990	S	904	QPN	ZG	0.00	527.25	0.70	527.25
9007	992	928	S	902	QPN	ZG	0.00	491.15	3.18	491.15
9007	928	929	S	902	QPN	ZG	0.00	491.15	3.25	491.15
9007	929	930	S	903	QPN	ZG	0.00	491.15	3.25	491.15
9007	930	931	S	903	QPN	ZG	0.00	491.15	3.25	491.15
9007	931	932	S	903	QPN	ZG	0.00	491.15	3.25	491.15
9007	932	993	S	903	QPN	ZG	0.00	491.15	3.25	491.15
9007	993	994	S	907	QPN	ZG	0.00	527.25	0.65	527.25
9007	996	933	S	906	QPN	ZG	0.00	491.15	3.23	491.15
9007	933	934	S	906	QPN	ZG	0.00	491.15	3.23	491.15
9009	941	942	S	905	QPN	ZG	0.00	491.15	3.25	491.15
9009	942	943	S	905	QPN	ZG	0.00	491.15	3.25	491.15
9009	943	944	S	905	QPN	ZG	0.00	491.15	3.20	491.15
9009	944	945	T	729	QPN	ZG	0.00	450.00	3.00	450.00
9009	945	946	T	430	QPN	ZG	0.00	900.00	3.18	900.00
9009	946	947	T	431	QPN	ZG	0.00	900.00	3.25	900.00
9009	947	948	T	432	QPN	ZG	0.00	900.00	3.25	900.00
9009	948	949	T	433	QPN	ZG	0.00	900.00	3.25	900.00
9009	949	950	T	434	QPN	ZG	0.00	900.00	3.25	900.00
9009	950	951	T	435	QPN	ZG	0.00	900.00	3.25	900.00
9009	952	953	S	906	QPN	ZG	0.00	491.15	3.23	491.15
9009	953	954	S	906	QPN	ZG	0.00	491.15	3.23	491.15
9023	-2746	963	T	443	QPN	ZG	0.00	510.00	0.40	510.00
9023	978	-2833	T	443	QPN	ZG	0.00	510.00	0.40	510.00
9023	-3041	910	T	443	QPN	ZG	0.00	510.00	0.35	510.00
9028	-2747	-2834	T	444	QPN	ZG	0.00	510.00	0.40	510.00
9028	979	-3042	T	444	QPN	ZG	0.00	510.00	0.35	510.00
9036	-2750	969	T	445	QPN	ZG	0.00	510.00	0.40	510.00
9036	982	-2837	T	445	QPN	ZG	0.00	510.00	0.40	510.00
9036	-3045	917	T	445	QPN	ZG	0.00	510.00	0.35	510.00
9040	-2751	-2838	T	446	QPN	ZG	0.00	510.00	0.40	510.00
9040	983	-3046	T	446	QPN	ZG	0.00	510.00	0.35	510.00
9043	920	934	T	447	QPN	ZG	0.00	900.00	5.55	900.00
11003	1107	1108	S	1105	QPN	ZG	0.00	527.25	3.25	527.25
11003	1108	-3898	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3898	-3899	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3899	-3900	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3900	-3901	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3901	-3902	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3902	-3903	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3903	-3904	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3904	-3905	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3905	1109	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	1109	-3906	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3906	-3907	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3907	-3908	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3908	-3909	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3909	-3910	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3910	-3911	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3911	-3912	S	1105	QPN	ZG	0.00	527.25	0.40	527.25

9007	925	926	S	905	QPN	ZG	0.00	491.15	3.25	491.15
9007	926	927	S	905	QPN	ZG	0.00	491.15	3.25	491.15
9007	927	989	S	905	QPN	ZG	0.00	491.15	3.20	491.15
9007	991	992	S	904	QPN	ZG	0.00	527.25	0.72	527.25
9007	992	928	S	904	QPN	ZG	0.00	527.25	3.18	527.25
9007	928	929	S	904	QPN	ZG	0.00	527.25	3.25	527.25
9007	929	930	S	907	QPN	ZG	0.00	527.25	3.25	527.25
9007	930	931	S	907	QPN	ZG	0.00	527.25	3.25	527.25
9007	931	932	S	907	QPN	ZG	0.00	527.25	3.25	527.25
9007	932	993	S	907	QPN	ZG	0.00	527.25	3.25	527.25
9007	995	996	S	907	QPN	ZG	0.00	527.25	0.67	527.25
9007	996	933	S	907	QPN	ZG	0.00	527.25	3.23	527.25
9007	933	934	S	907	QPN	ZG	0.00	527.25	3.23	527.25
9009	941	942	T	426	QPN	ZG	0.00	900.00	3.25	900.00
9009	942	943	T	427	QPN	ZG	0.00	900.00	3.25	900.00
9009	943	944	T	428	QPN	ZG	0.00	900.00	3.20	900.00
9009	945	946	S	902	QPN	ZG	0.00	491.15	3.18	491.15
9009	946	947	S	902	QPN	ZG	0.00	491.15	3.25	491.15
9009	947	948	S	903	QPN	ZG	0.00	491.15	3.25	491.15
9009	948	949	S	903	QPN	ZG	0.00	491.15	3.25	491.15
9009	949	950	S	903	QPN	ZG	0.00	491.15	3.25	491.15
9009	950	951	S	903	QPN	ZG	0.00	491.15	3.25	491.15
9009	951	952	T	736	QPN	ZG	0.00	450.00	2.90	450.00
9009	952	953	T	437	QPN	ZG	0.00	900.00	3.23	900.00
9009	953	954	T	438	QPN	ZG	0.00	900.00	3.23	900.00
9023	-2833	-2746	T	443	QPN	ZG	0.00	510.00	0.40	510.00
9023	978	-3041	T	443	QPN	ZG	0.00	510.00	0.35	510.00
9028	964	-2747	T	444	QPN	ZG	0.00	510.00	0.40	510.00
9028	-2834	979	T	444	QPN	ZG	0.00	510.00	0.40	510.00
9028	-3042	911	T	444	QPN	ZG	0.00	510.00	0.35	510.00
9036	-2837	-2750	T	445	QPN	ZG	0.00	510.00	0.40	510.00
9036	982	-3045	T	445	QPN	ZG	0.00	510.00	0.35	510.00
9040	970	-2751	T	446	QPN	ZG	0.00	510.00	0.40	510.00
9040	-2838	983	T	446	QPN	ZG	0.00	510.00	0.40	510.00
9040	-3046	918	T	446	QPN	ZG	0.00	510.00	0.35	510.00
9043	954	934	T	448	QPN	ZG	0.00	900.00	5.17	900.00
11003	1107	1108	T	507	QPN	ZG	0.00	900.00	3.25	900.00
11003	1108	-3898	T	508	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3898	-3899	T	508	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3899	-3900	T	508	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3900	-3901	T	508	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3901	-3902	T	508	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3902	-3903	T	508	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3903	-3904	T	508	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3904	-3905	T	508	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3905	1109	T	508	QPN	ZG	0.00	900.00	0.36	900.00
11003	1109	-3906	T	509	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3906	-3907	T	509	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3907	-3908	T	509	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3908	-3909	T	509	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3909	-3910	T	509	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3910	-3911	T	509	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3911	-3912	T	509	QPN	ZG	0.00	900.00	0.40	900.00



# Relazione di calcolo

11003	-3912	1110	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	1110	-3913	S	1105	QPN	ZG	0.00	527.25	0.38	527.25
11003	-3913	-3914	S	1105	QPN	ZG	0.00	527.25	0.33	527.25
11003	-3913	-3914	S	1105	QPN	ZG	0.33	358.15	0.38	358.15
11003	-3914	-3915	T	510	QPN	ZG	0.00	900.00	0.38	900.00
11003	-3915	-3916	T	510	QPN	ZG	0.00	900.00	0.38	900.00
11003	-3916	-3917	T	510	QPN	ZG	0.00	900.00	0.38	900.00
11003	-3917	-3918	T	510	QPN	ZG	0.00	900.00	0.38	900.00
11003	-3918	-3919	T	510	QPN	ZG	0.00	900.00	0.38	900.00
11003	-3919	1111	S	1105	QPN	ZG	0.00	527.25	0.38	527.25
11003	1111	-3920	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3920	-3921	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3921	-3922	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3922	-3923	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3923	-3924	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3924	-3925	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3925	-3926	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	-3926	1112	S	1105	QPN	ZG	0.00	527.25	0.40	527.25
11003	1112	-3927	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3927	-3928	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3928	-3929	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3929	-3930	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3930	-3931	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3931	-3932	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3932	-3933	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3933	-3934	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3934	1113	S	1105	QPN	ZG	0.00	527.25	0.36	527.25
11003	1113	1114	S	1108	QPN	ZG	0.00	527.25	3.25	527.25
11003	1114	1115	S	1108	QPN	ZG	0.00	527.25	3.25	527.25
11003	1115	-3935	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3935	-3936	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3936	-3937	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3937	-3938	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3938	-3939	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3939	-3940	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3940	-3941	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3941	-3942	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3942	1116	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	1116	-3943	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3943	-3944	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3944	-3945	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3945	-3946	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3946	-3947	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3947	-3948	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3948	-3949	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3949	-3950	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3950	1117	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	1117	-3951	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3951	-3952	S	1108	QPN	ZG	0.00	527.25	0.29	527.25
11003	-3952	-3953	S	1108	QPN	ZG	0.29	358.15	0.36	358.15
11003	-3953	-3954	T	517	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3954	-3955	T	517	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3955	-3956	T	517	QPN	ZG	0.00	900.00	0.36	900.00

11003	-3912	1110	T	509	QPN	ZG	0.00	900.00	0.40	900.00
11003	1110	-3913	T	510	QPN	ZG	0.00	900.00	0.38	900.00
11003	-3913	-3914	T	510	QPN	ZG	0.00	900.00	0.38	900.00
11003	-3914	-3915	S	1105	QPN	ZG	0.00	358.15	0.38	358.15
11003	-3915	-3916	S	1105	QPN	ZG	0.00	358.15	0.38	358.15
11003	-3916	-3917	S	1105	QPN	ZG	0.00	358.15	0.38	358.15
11003	-3917	-3918	S	1105	QPN	ZG	0.00	358.15	0.38	358.15
11003	-3918	-3919	S	1105	QPN	ZG	0.00	358.15	0.03	358.15
11003	-3918	-3919	S	1105	QPN	ZG	0.03	527.25	0.38	527.25
11003	-3919	1111	T	510	QPN	ZG	0.00	900.00	0.38	900.00
11003	1111	-3920	T	511	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3920	-3921	T	511	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3921	-3922	T	511	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3922	-3923	T	511	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3923	-3924	T	511	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3924	-3925	T	511	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3925	-3926	T	511	QPN	ZG	0.00	900.00	0.40	900.00
11003	-3926	1112	T	511	QPN	ZG	0.00	900.00	0.40	900.00
11003	1112	-3927	T	512	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3927	-3928	T	512	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3928	-3929	T	512	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3929	-3930	T	512	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3930	-3931	T	512	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3931	-3932	T	512	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3932	-3933	T	512	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3933	-3934	T	512	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3934	1113	T	512	QPN	ZG	0.00	900.00	0.36	900.00
11003	1113	1114	T	513	QPN	ZG	0.00	900.00	3.25	900.00
11003	1114	1115	T	514	QPN	ZG	0.00	900.00	3.25	900.00
11003	1115	-3935	T	515	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3935	-3936	T	515	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3936	-3937	T	515	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3937	-3938	T	515	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3938	-3939	T	515	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3939	-3940	T	515	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3940	-3941	T	515	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3941	-3942	T	515	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3942	1116	T	515	QPN	ZG	0.00	900.00	0.36	900.00
11003	1116	-3943	T	516	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3943	-3944	T	516	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3944	-3945	T	516	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3945	-3946	T	516	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3946	-3947	T	516	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3947	-3948	T	516	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3948	-3949	T	516	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3949	-3950	T	516	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3950	1117	T	516	QPN	ZG	0.00	900.00	0.36	900.00
11003	1117	-3951	T	517	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3951	-3952	T	517	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3952	-3953	S	1108	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3953	-3954	S	1108	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3954	-3955	S	1108	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3955	-3956	S	1108	QPN	ZG	0.00	358.15	0.36	358.15



# Relazione di calcolo

11003	-3955	-3956	T	517	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3956	-3957	T	517	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3957	1118	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	1118	-3958	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3958	-3959	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3959	-3960	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3960	-3961	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3961	-3962	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3962	-3963	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3963	-3964	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3964	-3965	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3965	1119	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	1119	-3966	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3966	-3967	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3967	-3968	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3968	-3969	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3969	-3970	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3970	-3971	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3971	-3972	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3972	-3973	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3973	1120	S	1108	QPN	ZG	0.00	527.25	0.36	527.25
11007	1125	1126	S	1105	QPN	ZG	0.00	527.25	3.25	527.25
11007	1126	1127	S	1105	QPN	ZG	0.00	527.25	3.25	527.25
11007	1127	1189	S	1105	QPN	ZG	0.00	527.25	3.20	527.25
11007	1189	1190	S	1105	QPN	ZG	0.00	527.25	0.70	527.25
11007	1192	1128	S	1103	QPN	ZG	0.00	491.15	3.18	491.15
11007	1128	1129	S	1103	QPN	ZG	0.00	491.15	3.25	491.15
11007	1129	1130	S	1104	QPN	ZG	0.00	491.15	3.25	491.15
11007	1130	1131	S	1104	QPN	ZG	0.00	491.15	3.25	491.15
11007	1131	1132	S	1104	QPN	ZG	0.00	491.15	3.25	491.15
11007	1132	1193	S	1104	QPN	ZG	0.00	491.15	3.25	491.15
11007	1193	1194	S	1108	QPN	ZG	0.00	527.25	0.65	527.25
11007	1196	1133	S	1107	QPN	ZG	0.00	491.15	3.23	491.15
11007	1133	1134	S	1107	QPN	ZG	0.00	491.15	3.23	491.15
11009	1141	1142	S	1106	QPN	ZG	0.00	491.15	3.25	491.15
11009	1142	1143	S	1106	QPN	ZG	0.00	491.15	3.25	491.15
11009	1143	1144	S	1106	QPN	ZG	0.00	491.15	3.20	491.15
11009	1144	1145	T	929	QPN	ZG	0.00	450.00	3.00	450.00
11009	1145	1146	T	530	QPN	ZG	0.00	900.00	3.18	900.00
11009	1146	1147	T	531	QPN	ZG	0.00	900.00	3.25	900.00
11009	1147	1148	T	532	QPN	ZG	0.00	900.00	3.25	900.00
11009	1148	1149	T	533	QPN	ZG	0.00	900.00	3.25	900.00
11009	1149	1150	T	534	QPN	ZG	0.00	900.00	3.25	900.00
11009	1150	1151	T	535	QPN	ZG	0.00	900.00	3.25	900.00
11009	1152	1153	S	1107	QPN	ZG	0.00	491.15	3.23	491.15
11009	1153	1154	S	1107	QPN	ZG	0.00	491.15	3.23	491.15
11023	-3511	1163	T	543	QPN	ZG	0.00	510.00	0.40	510.00
11023	1178	-3598	T	543	QPN	ZG	0.00	510.00	0.40	510.00
11023	-3806	1110	T	543	QPN	ZG	0.00	510.00	0.35	510.00
11028	-3512	-3599	T	544	QPN	ZG	0.00	510.00	0.40	510.00
11028	1179	-3807	T	544	QPN	ZG	0.00	510.00	0.35	510.00
11036	-3515	1169	T	545	QPN	ZG	0.00	510.00	0.40	510.00
11036	1182	-3602	T	545	QPN	ZG	0.00	510.00	0.40	510.00

11003	-3956	-3957	S	1108	QPN	ZG	0.00	358.15	0.06	358.15
11003	-3956	-3957	S	1108	QPN	ZG	0.06	527.25	0.36	527.25
11003	-3957	1118	T	517	QPN	ZG	0.00	900.00	0.36	900.00
11003	1118	-3958	T	518	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3958	-3959	T	518	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3959	-3960	T	518	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3960	-3961	T	518	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3961	-3962	T	518	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3962	-3963	T	518	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3963	-3964	T	518	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3964	-3965	T	518	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3965	1119	T	518	QPN	ZG	0.00	900.00	0.36	900.00
11003	1119	-3966	T	519	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3966	-3967	T	519	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3967	-3968	T	519	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3968	-3969	T	519	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3969	-3970	T	519	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3970	-3971	T	519	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3971	-3972	T	519	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3972	-3973	T	519	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3973	1120	T	519	QPN	ZG	0.00	900.00	0.36	900.00
11007	1125	1126	S	1106	QPN	ZG	0.00	491.15	3.25	491.15
11007	1126	1127	S	1106	QPN	ZG	0.00	491.15	3.25	491.15
11007	1127	1189	S	1106	QPN	ZG	0.00	491.15	3.20	491.15
11007	1191	1192	S	1105	QPN	ZG	0.00	527.25	0.72	527.25
11007	1192	1128	S	1105	QPN	ZG	0.00	527.25	3.18	527.25
11007	1128	1129	S	1105	QPN	ZG	0.00	527.25	3.25	527.25
11007	1129	1130	S	1108	QPN	ZG	0.00	527.25	3.25	527.25
11007	1130	1131	S	1108	QPN	ZG	0.00	527.25	3.25	527.25
11007	1131	1132	S	1108	QPN	ZG	0.00	527.25	3.25	527.25
11007	1132	1193	S	1108	QPN	ZG	0.00	527.25	3.25	527.25
11007	1195	1196	S	1108	QPN	ZG	0.00	527.25	0.67	527.25
11007	1196	1133	S	1108	QPN	ZG	0.00	527.25	3.23	527.25
11007	1133	1134	S	1108	QPN	ZG	0.00	527.25	3.23	527.25
11009	1141	1142	T	526	QPN	ZG	0.00	900.00	3.25	900.00
11009	1142	1143	T	527	QPN	ZG	0.00	900.00	3.25	900.00
11009	1143	1144	T	528	QPN	ZG	0.00	900.00	3.20	900.00
11009	1145	1146	S	1103	QPN	ZG	0.00	491.15	3.18	491.15
11009	1146	1147	S	1103	QPN	ZG	0.00	491.15	3.25	491.15
11009	1147	1148	S	1104	QPN	ZG	0.00	491.15	3.25	491.15
11009	1148	1149	S	1104	QPN	ZG	0.00	491.15	3.25	491.15
11009	1149	1150	S	1104	QPN	ZG	0.00	491.15	3.25	491.15
11009	1150	1151	S	1104	QPN	ZG	0.00	491.15	3.25	491.15
11009	1151	1152	T	936	QPN	ZG	0.00	450.00	2.90	450.00
11009	1152	1153	T	537	QPN	ZG	0.00	900.00	3.23	900.00
11009	1153	1154	T	538	QPN	ZG	0.00	900.00	3.23	900.00
11023	-3598	-3511	T	543	QPN	ZG	0.00	510.00	0.40	510.00
11023	1178	-3806	T	543	QPN	ZG	0.00	510.00	0.35	510.00
11028	1164	-3512	T	544	QPN	ZG	0.00	510.00	0.40	510.00
11028	-3599	1179	T	544	QPN	ZG	0.00	510.00	0.40	510.00
11028	-3807	1111	T	544	QPN	ZG	0.00	510.00	0.35	510.00
11036	-3602	-3515	T	545	QPN	ZG	0.00	510.00	0.40	510.00
11036	1182	-3810	T	545	QPN	ZG	0.00	510.00	0.35	510.00



# Relazione di calcolo

11036	-3810	1117	T	545	QPN	ZG	0.00	510.00	0.35	510.00
11040	-3516	-3603	T	546	QPN	ZG	0.00	510.00	0.40	510.00
11040	1183	-3811	T	546	QPN	ZG	0.00	510.00	0.35	510.00
11043	1120	1134	T	547	QPN	ZG	0.00	900.00	5.55	900.00
13003	1307	1308	S	1305	QPN	ZG	0.00	527.25	3.25	527.25
13003	1308	-4663	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4663	-4664	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4664	-4665	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4665	-4666	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4666	-4667	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4667	-4668	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4668	-4669	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4669	-4670	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4670	1309	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	1309	-4671	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4671	-4672	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4672	-4673	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4673	-4674	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4674	-4675	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4675	-4676	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4676	-4677	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4677	1310	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	1310	-4678	S	1305	QPN	ZG	0.00	527.25	0.38	527.25
13003	-4678	-4679	S	1305	QPN	ZG	0.00	527.25	0.33	527.25
13003	-4678	-4679	S	1305	QPN	ZG	0.33	358.15	0.38	358.15
13003	-4679	-4680	T	610	QPN	ZG	0.00	900.00	0.38	900.00
13003	-4680	-4681	T	610	QPN	ZG	0.00	900.00	0.38	900.00
13003	-4681	-4682	T	610	QPN	ZG	0.00	900.00	0.38	900.00
13003	-4682	-4683	T	610	QPN	ZG	0.00	900.00	0.38	900.00
13003	-4683	-4684	T	610	QPN	ZG	0.00	900.00	0.38	900.00
13003	-4684	1311	S	1305	QPN	ZG	0.00	527.25	0.38	527.25
13003	1311	-4685	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4685	-4686	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4686	-4687	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4687	-4688	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4688	-4689	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4689	-4690	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4690	-4691	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	-4691	1312	S	1305	QPN	ZG	0.00	527.25	0.40	527.25
13003	1312	-4692	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4692	-4693	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4693	-4694	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4694	-4695	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4695	-4696	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4696	-4697	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4697	-4698	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4698	-4699	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4699	1313	S	1305	QPN	ZG	0.00	527.25	0.36	527.25
13003	1313	1314	S	1308	QPN	ZG	0.00	527.25	3.25	527.25
13003	1314	1315	S	1308	QPN	ZG	0.00	527.25	3.25	527.25
13003	1315	-4700	S	1308	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4700	-4701	S	1308	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4701	-4702	S	1308	QPN	ZG	0.00	527.25	0.36	527.25

11040	1170	-3516	T	546	QPN	ZG	0.00	510.00	0.40	510.00
11040	-3603	1183	T	546	QPN	ZG	0.00	510.00	0.40	510.00
11040	-3811	1118	T	546	QPN	ZG	0.00	510.00	0.35	510.00
11043	1154	1134	T	548	QPN	ZG	0.00	900.00	5.17	900.00
13003	1307	1308	T	607	QPN	ZG	0.00	900.00	3.25	900.00
13003	1308	-4663	T	608	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4663	-4664	T	608	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4664	-4665	T	608	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4665	-4666	T	608	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4666	-4667	T	608	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4667	-4668	T	608	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4668	-4669	T	608	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4669	-4670	T	608	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4670	1309	T	608	QPN	ZG	0.00	900.00	0.36	900.00
13003	1309	-4671	T	609	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4671	-4672	T	609	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4672	-4673	T	609	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4673	-4674	T	609	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4674	-4675	T	609	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4675	-4676	T	609	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4676	-4677	T	609	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4677	1310	T	609	QPN	ZG	0.00	900.00	0.40	900.00
13003	1310	-4678	T	610	QPN	ZG	0.00	900.00	0.38	900.00
13003	-4678	-4679	T	610	QPN	ZG	0.00	900.00	0.38	900.00
13003	-4679	-4680	S	1305	QPN	ZG	0.00	358.15	0.38	358.15
13003	-4680	-4681	S	1305	QPN	ZG	0.00	358.15	0.38	358.15
13003	-4681	-4682	S	1305	QPN	ZG	0.00	358.15	0.38	358.15
13003	-4682	-4683	S	1305	QPN	ZG	0.00	358.15	0.38	358.15
13003	-4683	-4684	S	1305	QPN	ZG	0.00	358.15	0.03	358.15
13003	-4683	-4684	S	1305	QPN	ZG	0.03	527.25	0.38	527.25
13003	-4684	1311	T	610	QPN	ZG	0.00	900.00	0.38	900.00
13003	1311	-4685	T	611	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4685	-4686	T	611	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4686	-4687	T	611	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4687	-4688	T	611	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4688	-4689	T	611	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4689	-4690	T	611	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4690	-4691	T	611	QPN	ZG	0.00	900.00	0.40	900.00
13003	-4691	1312	T	611	QPN	ZG	0.00	900.00	0.40	900.00
13003	1312	-4692	T	612	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4692	-4693	T	612	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4693	-4694	T	612	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4694	-4695	T	612	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4695	-4696	T	612	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4696	-4697	T	612	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4697	-4698	T	612	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4698	-4699	T	612	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4699	1313	T	612	QPN	ZG	0.00	900.00	0.36	900.00
13003	1313	1314	T	613	QPN	ZG	0.00	900.00	3.25	900.00
13003	1314	1315	T	614	QPN	ZG	0.00	900.00	3.25	900.00
13003	1315	-4700	T	615	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4700	-4701	T	615	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4701	-4702	T	615	QPN	ZG	0.00	900.00	0.36	900.00



## Relazione di calcolo

13003	-4702	-4703	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4702	-4703	T	615	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4703	-4704	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4703	-4704	T	615	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4704	-4705	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4704	-4705	T	615	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4705	-4706	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4705	-4706	T	615	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4706	-4707	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4706	-4707	T	615	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4707	1316	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4707	1316	T	615	QPN	ZG	0.00	900.00	0.36	900.00
13003	1316	-4708	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	1316	-4708	T	616	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4708	-4709	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4708	-4709	T	616	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4709	-4710	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4709	-4710	T	616	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4710	-4711	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4710	-4711	T	616	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4711	-4712	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4711	-4712	T	616	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4712	-4713	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4712	-4713	T	616	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4713	-4714	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4713	-4714	T	616	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4714	-4715	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4714	-4715	T	616	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4715	1317	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4715	1317	T	616	QPN	ZG	0.00	900.00	0.36	900.00
13003	1317	-4716	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	1317	-4716	T	617	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4716	-4717	S	1308	QPN	ZG	0.00	527.25	0.29	527.25	13003	-4716	-4717	T	617	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4716	-4717	S	1308	QPN	ZG	0.29	358.15	0.36	358.15	13003	-4717	-4718	S	1308	QPN	ZG	0.00	358.15	0.36	358.15
13003	-4717	-4718	T	617	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4718	-4719	S	1308	QPN	ZG	0.00	358.15	0.36	358.15
13003	-4718	-4719	T	617	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4719	-4720	S	1308	QPN	ZG	0.00	358.15	0.36	358.15
13003	-4719	-4720	T	617	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4720	-4721	S	1308	QPN	ZG	0.00	358.15	0.36	358.15
13003	-4720	-4721	T	617	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4721	-4722	S	1308	QPN	ZG	0.00	358.15	0.06	358.15
13003	-4721	-4722	T	617	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4721	-4722	S	1308	QPN	ZG	0.06	527.25	0.36	527.25
13003	-4722	1318	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4722	1318	T	617	QPN	ZG	0.00	900.00	0.36	900.00
13003	1318	-4723	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	1318	-4723	T	618	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4723	-4724	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4723	-4724	T	618	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4724	-4725	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4724	-4725	T	618	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4725	-4726	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4725	-4726	T	618	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4726	-4727	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4726	-4727	T	618	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4727	-4728	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4727	-4728	T	618	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4728	-4729	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4728	-4729	T	618	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4729	-4730	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4729	-4730	T	618	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4730	1319	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4730	1319	T	618	QPN	ZG	0.00	900.00	0.36	900.00
13003	1319	-4731	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	1319	-4731	T	619	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4731	-4732	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4731	-4732	T	619	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4732	-4733	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4732	-4733	T	619	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4733	-4734	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4733	-4734	T	619	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4734	-4735	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4734	-4735	T	619	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4735	-4736	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4735	-4736	T	619	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4736	-4737	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4736	-4737	T	619	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4737	-4738	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4737	-4738	T	619	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4738	1320	S	1308	QPN	ZG	0.00	527.25	0.36	527.25	13003	-4738	1320	T	619	QPN	ZG	0.00	900.00	0.36	900.00
13007	1325	1326	S	1305	QPN	ZG	0.00	527.25	3.25	527.25	13007	1325	1326	S	1306	QPN	ZG	0.00	491.15	3.25	491.15
13007	1326	1327	S	1305	QPN	ZG	0.00	527.25	3.25	527.25	13007	1326	1327	S	1306	QPN	ZG	0.00	491.15	3.25	491.15
13007	1327	1389	S	1305	QPN	ZG	0.00	527.25	3.20	527.25	13007	1327	1389	S	1306	QPN	ZG	0.00	491.15	3.20	491.15
13007	1389	1390	S	1305	QPN	ZG	0.00	527.25	0.70	527.25	13007	1391	1392	S	1305	QPN	ZG	0.00	527.25	0.72	527.25
13007	1392	1328	S	1303	QPN	ZG	0.00	491.15	3.18	491.15	13007	1392	1328	S	1305	QPN	ZG	0.00	527.25	3.18	527.25
13007	1328	1329	S	1303	QPN	ZG	0.00	491.15	3.25	491.15	13007	1328	1329	S	1305	QPN	ZG	0.00	527.25	3.25	527.25
13007	1329	1330	S	1304	QPN	ZG	0.00	491.15	3.25	491.15	13007	1329	1330	S	1308	QPN	ZG	0.00	527.25	3.25	527.25
13007	1330	1331	S	1304	QPN	ZG	0.00	491.15	3.25	491.15	13007	1330	1331	S	1308	QPN	ZG	0.00	527.25	3.25	527.25
13007	1331	1332	S	1304	QPN	ZG	0.00	491.15	3.25	491.15	13007	1331	1332	S	1308	QPN	ZG	0.00	527.25	3.25	527.25
13007	1332	1393	S	1304	QPN	ZG	0.00	491.15	3.25	491.15	13007	1332	1393	S	1308	QPN	ZG	0.00	527.25	3.25	527.25
13007	1393	1394	S	1308	QPN	ZG	0.00	527.25	0.65	527.25	13007	1395	1396	S	1308	QPN	ZG	0.00	527.25	0.67	527.25



# Relazione di calcolo

13007	1396	1333	S	1307	QPN	ZG	0.00	491.15	3.23	491.15
13007	1333	1334	S	1307	QPN	ZG	0.00	491.15	3.23	491.15
13009	1341	1342	S	1306	QPN	ZG	0.00	491.15	3.25	491.15
13009	1342	1343	S	1306	QPN	ZG	0.00	491.15	3.25	491.15
13009	1343	1344	S	1306	QPN	ZG	0.00	491.15	3.20	491.15
13009	1344	1345	T	1129	QPN	ZG	0.00	450.00	3.00	450.00
13009	1345	1346	T	630	QPN	ZG	0.00	900.00	3.18	900.00
13009	1346	1347	T	631	QPN	ZG	0.00	900.00	3.25	900.00
13009	1347	1348	T	632	QPN	ZG	0.00	900.00	3.25	900.00
13009	1348	1349	T	633	QPN	ZG	0.00	900.00	3.25	900.00
13009	1349	1350	T	634	QPN	ZG	0.00	900.00	3.25	900.00
13009	1350	1351	T	635	QPN	ZG	0.00	900.00	3.25	900.00
13009	1352	1353	S	1307	QPN	ZG	0.00	491.15	3.23	491.15
13009	1353	1354	S	1307	QPN	ZG	0.00	491.15	3.23	491.15
13023	-4276	1363	T	643	QPN	ZG	0.00	510.00	0.40	510.00
13023	1378	-4363	T	643	QPN	ZG	0.00	510.00	0.40	510.00
13023	-4571	1310	T	643	QPN	ZG	0.00	510.00	0.35	510.00
13028	-4277	-4364	T	644	QPN	ZG	0.00	510.00	0.40	510.00
13028	1379	-4572	T	644	QPN	ZG	0.00	510.00	0.35	510.00
13036	-4280	1369	T	645	QPN	ZG	0.00	510.00	0.40	510.00
13036	1382	-4367	T	645	QPN	ZG	0.00	510.00	0.40	510.00
13036	-4575	1317	T	645	QPN	ZG	0.00	510.00	0.35	510.00
13040	-4281	-4368	T	646	QPN	ZG	0.00	510.00	0.40	510.00
13040	1383	-4576	T	646	QPN	ZG	0.00	510.00	0.35	510.00
13043	1320	1334	T	647	QPN	ZG	0.00	900.00	5.55	900.00
15003	1507	1508	S	1505	QPN	ZG	0.00	527.25	3.25	527.25
15003	1508	-5428	S	1505	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5428	-5429	S	1505	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5429	-5430	S	1505	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5430	-5431	S	1505	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5431	-5432	S	1505	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5432	-5433	S	1505	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5433	-5434	S	1505	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5434	-5435	S	1505	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5435	1509	S	1505	QPN	ZG	0.00	527.25	0.36	527.25
15003	1509	-5436	S	1505	QPN	ZG	0.00	527.25	0.40	527.25
15003	-5436	-5437	S	1505	QPN	ZG	0.00	527.25	0.40	527.25
15003	-5437	-5438	S	1505	QPN	ZG	0.00	527.25	0.40	527.25
15003	-5438	-5439	S	1505	QPN	ZG	0.00	527.25	0.40	527.25
15003	-5439	-5440	S	1505	QPN	ZG	0.00	527.25	0.40	527.25
15003	-5440	-5441	S	1505	QPN	ZG	0.00	527.25	0.40	527.25
15003	-5441	-5442	S	1505	QPN	ZG	0.00	527.25	0.40	527.25
15003	-5442	1510	S	1505	QPN	ZG	0.00	527.25	0.40	527.25
15003	1510	-5443	S	1505	QPN	ZG	0.00	527.25	0.38	527.25
15003	-5443	-5444	S	1505	QPN	ZG	0.00	527.25	0.33	527.25
15003	-5443	-5444	S	1505	QPN	ZG	0.33	358.15	0.38	358.15
15003	-5444	-5445	T	710	QPN	ZG	0.00	900.00	0.38	900.00
15003	-5445	-5446	T	710	QPN	ZG	0.00	900.00	0.38	900.00
15003	-5446	-5447	T	710	QPN	ZG	0.00	900.00	0.38	900.00
15003	-5447	-5448	T	710	QPN	ZG	0.00	900.00	0.38	900.00
15003	-5448	-5449	T	710	QPN	ZG	0.00	900.00	0.38	900.00
15003	-5449	1511	S	1505	QPN	ZG	0.00	527.25	0.38	527.25
15003	1511	-5450	S	1505	QPN	ZG	0.00	527.25	0.40	527.25

13007	1396	1333	S	1308	QPN	ZG	0.00	527.25	3.23	527.25
13007	1333	1334	S	1308	QPN	ZG	0.00	527.25	3.23	527.25
13009	1341	1342	T	626	QPN	ZG	0.00	900.00	3.25	900.00
13009	1342	1343	T	627	QPN	ZG	0.00	900.00	3.25	900.00
13009	1343	1344	T	628	QPN	ZG	0.00	900.00	3.20	900.00
13009	1345	1346	S	1303	QPN	ZG	0.00	491.15	3.18	491.15
13009	1346	1347	S	1303	QPN	ZG	0.00	491.15	3.25	491.15
13009	1347	1348	S	1304	QPN	ZG	0.00	491.15	3.25	491.15
13009	1348	1349	S	1304	QPN	ZG	0.00	491.15	3.25	491.15
13009	1349	1350	S	1304	QPN	ZG	0.00	491.15	3.25	491.15
13009	1350	1351	S	1304	QPN	ZG	0.00	491.15	3.25	491.15
13009	1351	1352	T	1136	QPN	ZG	0.00	450.00	2.90	450.00
13009	1352	1353	T	637	QPN	ZG	0.00	900.00	3.23	900.00
13009	1353	1354	T	638	QPN	ZG	0.00	900.00	3.23	900.00
13023	-4363	-4276	T	643	QPN	ZG	0.00	510.00	0.40	510.00
13023	1378	-4571	T	643	QPN	ZG	0.00	510.00	0.35	510.00
13028	1364	-4277	T	644	QPN	ZG	0.00	510.00	0.40	510.00
13028	-4364	1379	T	644	QPN	ZG	0.00	510.00	0.40	510.00
13028	-4572	1311	T	644	QPN	ZG	0.00	510.00	0.35	510.00
13036	-4367	-4280	T	645	QPN	ZG	0.00	510.00	0.40	510.00
13036	1382	-4575	T	645	QPN	ZG	0.00	510.00	0.35	510.00
13040	1370	-4281	T	646	QPN	ZG	0.00	510.00	0.40	510.00
13040	-4368	1383	T	646	QPN	ZG	0.00	510.00	0.40	510.00
13040	-4576	1318	T	646	QPN	ZG	0.00	510.00	0.35	510.00
13043	1354	1334	T	648	QPN	ZG	0.00	900.00	5.17	900.00
15003	1507	1508	T	707	QPN	ZG	0.00	900.00	3.25	900.00
15003	1508	-5428	T	708	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5428	-5429	T	708	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5429	-5430	T	708	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5430	-5431	T	708	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5431	-5432	T	708	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5432	-5433	T	708	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5433	-5434	T	708	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5434	-5435	T	708	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5435	1509	T	708	QPN	ZG	0.00	900.00	0.36	900.00
15003	1509	-5436	T	709	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5436	-5437	T	709	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5437	-5438	T	709	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5438	-5439	T	709	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5439	-5440	T	709	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5440	-5441	T	709	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5441	-5442	T	709	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5442	1510	T	709	QPN	ZG	0.00	900.00	0.40	900.00
15003	1510	-5443	T	710	QPN	ZG	0.00	900.00	0.38	900.00
15003	-5443	-5444	T	710	QPN	ZG	0.00	900.00	0.38	900.00
15003	-5444	-5445	S	1505	QPN	ZG	0.00	358.15	0.38	358.15
15003	-5445	-5446	S	1505	QPN	ZG	0.00	358.15	0.38	358.15
15003	-5446	-5447	S	1505	QPN	ZG	0.00	358.15	0.38	358.15
15003	-5447	-5448	S	1505	QPN	ZG	0.00	358.15	0.38	358.15
15003	-5448	-5449	S	1505	QPN	ZG	0.00	358.15	0.03	358.15
15003	-5448	-5449	S	1505	QPN	ZG	0.03	527.25	0.38	527.25
15003	-5449	1511	T	710	QPN	ZG	0.00	900.00	0.38	900.00
15003	1511	-5450	T	711	QPN	ZG	0.00	900.00	0.40	900.00



## Relazione di calcolo

15003	-5450	-5451	S	1505	QPN	ZG	0.00	527.25	0.40	527.25	15003	-5450	-5451	T	711	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5451	-5452	S	1505	QPN	ZG	0.00	527.25	0.40	527.25	15003	-5451	-5452	T	711	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5452	-5453	S	1505	QPN	ZG	0.00	527.25	0.40	527.25	15003	-5452	-5453	T	711	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5453	-5454	S	1505	QPN	ZG	0.00	527.25	0.40	527.25	15003	-5453	-5454	T	711	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5454	-5455	S	1505	QPN	ZG	0.00	527.25	0.40	527.25	15003	-5454	-5455	T	711	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5455	-5456	S	1505	QPN	ZG	0.00	527.25	0.40	527.25	15003	-5455	-5456	T	711	QPN	ZG	0.00	900.00	0.40	900.00
15003	-5456	1512	S	1505	QPN	ZG	0.00	527.25	0.40	527.25	15003	-5456	1512	T	711	QPN	ZG	0.00	900.00	0.40	900.00
15003	1512	-5457	S	1505	QPN	ZG	0.00	527.25	0.36	527.25	15003	1512	-5457	T	712	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5457	-5458	S	1505	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5457	-5458	T	712	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5458	-5459	S	1505	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5458	-5459	T	712	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5459	-5460	S	1505	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5459	-5460	T	712	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5460	-5461	S	1505	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5460	-5461	T	712	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5461	-5462	S	1505	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5461	-5462	T	712	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5462	-5463	S	1505	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5462	-5463	T	712	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5463	-5464	S	1505	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5463	-5464	T	712	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5464	1513	S	1505	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5464	1513	T	712	QPN	ZG	0.00	900.00	0.36	900.00
15003	1513	1514	S	1508	QPN	ZG	0.00	527.25	3.25	527.25	15003	1513	1514	T	713	QPN	ZG	0.00	900.00	3.25	900.00
15003	1514	1515	S	1508	QPN	ZG	0.00	527.25	3.25	527.25	15003	1514	1515	T	714	QPN	ZG	0.00	900.00	3.25	900.00
15003	1515	-5465	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	1515	-5465	T	715	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5465	-5466	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5465	-5466	T	715	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5466	-5467	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5466	-5467	T	715	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5467	-5468	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5467	-5468	T	715	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5468	-5469	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5468	-5469	T	715	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5469	-5470	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5469	-5470	T	715	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5470	-5471	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5470	-5471	T	715	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5471	-5472	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5471	-5472	T	715	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5472	1516	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5472	1516	T	715	QPN	ZG	0.00	900.00	0.36	900.00
15003	1516	-5473	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	1516	-5473	T	716	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5473	-5474	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5473	-5474	T	716	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5474	-5475	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5474	-5475	T	716	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5475	-5476	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5475	-5476	T	716	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5476	-5477	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5476	-5477	T	716	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5477	-5478	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5477	-5478	T	716	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5478	-5479	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5478	-5479	T	716	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5479	-5480	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5479	-5480	T	716	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5480	1517	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5480	1517	T	716	QPN	ZG	0.00	900.00	0.36	900.00
15003	1517	-5481	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	1517	-5481	T	717	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5481	-5482	S	1508	QPN	ZG	0.00	527.25	0.29	527.25	15003	-5481	-5482	T	717	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5481	-5482	S	1508	QPN	ZG	0.29	358.15	0.36	358.15	15003	-5482	-5483	S	1508	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5482	-5483	T	717	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5483	-5484	S	1508	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5483	-5484	T	717	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5484	-5485	S	1508	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5484	-5485	T	717	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5485	-5486	S	1508	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5485	-5486	T	717	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5486	-5487	S	1508	QPN	ZG	0.00	358.15	0.06	358.15
15003	-5486	-5487	T	717	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5486	-5487	S	1508	QPN	ZG	0.06	527.25	0.36	527.25
15003	-5487	1518	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5487	1518	T	717	QPN	ZG	0.00	900.00	0.36	900.00
15003	1518	-5488	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	1518	-5488	T	718	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5488	-5489	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5488	-5489	T	718	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5489	-5490	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5489	-5490	T	718	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5490	-5491	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5490	-5491	T	718	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5491	-5492	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5491	-5492	T	718	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5492	-5493	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5492	-5493	T	718	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5493	-5494	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5493	-5494	T	718	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5494	-5495	S	1508	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5494	-5495	T	718	QPN	ZG	0.00	900.00	0.36	900.00



# Relazione di calcolo

15003	-5495	1519	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15003	1519	-5496	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5496	-5497	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5497	-5498	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5498	-5499	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5499	-5500	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5500	-5501	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5501	-5502	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5502	-5503	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5503	1520	S	1508	QPN	ZG	0.00	527.25	0.36	527.25
15007	1525	1526	S	1505	QPN	ZG	0.00	527.25	3.25	527.25
15007	1526	1527	S	1505	QPN	ZG	0.00	527.25	3.25	527.25
15007	1527	1589	S	1505	QPN	ZG	0.00	527.25	3.20	527.25
15007	1589	1590	S	1505	QPN	ZG	0.00	527.25	0.70	527.25
15007	1592	1528	S	1503	QPN	ZG	0.00	491.15	3.18	491.15
15007	1528	1529	S	1503	QPN	ZG	0.00	491.15	3.25	491.15
15007	1529	1530	S	1504	QPN	ZG	0.00	491.15	3.25	491.15
15007	1530	1531	S	1504	QPN	ZG	0.00	491.15	3.25	491.15
15007	1531	1532	S	1504	QPN	ZG	0.00	491.15	3.25	491.15
15007	1532	1593	S	1504	QPN	ZG	0.00	491.15	3.25	491.15
15007	1593	1594	S	1508	QPN	ZG	0.00	527.25	0.65	527.25
15007	1596	1533	S	1507	QPN	ZG	0.00	491.15	3.23	491.15
15007	1533	1534	S	1507	QPN	ZG	0.00	491.15	3.23	491.15
15009	1541	1542	S	1506	QPN	ZG	0.00	491.15	3.25	491.15
15009	1542	1543	S	1506	QPN	ZG	0.00	491.15	3.25	491.15
15009	1543	1544	S	1506	QPN	ZG	0.00	491.15	3.20	491.15
15009	1544	1545	T	1329	QPN	ZG	0.00	450.00	3.00	450.00
15009	1545	1546	T	730	QPN	ZG	0.00	900.00	3.18	900.00
15009	1546	1547	T	731	QPN	ZG	0.00	900.00	3.25	900.00
15009	1547	1548	T	732	QPN	ZG	0.00	900.00	3.25	900.00
15009	1548	1549	T	733	QPN	ZG	0.00	900.00	3.25	900.00
15009	1549	1550	T	734	QPN	ZG	0.00	900.00	3.25	900.00
15009	1550	1551	T	735	QPN	ZG	0.00	900.00	3.25	900.00
15009	1552	1553	S	1507	QPN	ZG	0.00	491.15	3.23	491.15
15009	1553	1554	S	1507	QPN	ZG	0.00	491.15	3.23	491.15
15023	-5041	1563	T	743	QPN	ZG	0.00	510.00	0.40	510.00
15023	1578	-5128	T	743	QPN	ZG	0.00	510.00	0.40	510.00
15023	-5336	1510	T	743	QPN	ZG	0.00	510.00	0.35	510.00
15028	-5042	-5129	T	744	QPN	ZG	0.00	510.00	0.40	510.00
15028	1579	-5337	T	744	QPN	ZG	0.00	510.00	0.35	510.00
15036	-5045	1569	T	745	QPN	ZG	0.00	510.00	0.40	510.00
15036	1582	-5132	T	745	QPN	ZG	0.00	510.00	0.40	510.00
15036	-5340	1517	T	745	QPN	ZG	0.00	510.00	0.35	510.00
15040	-5046	-5133	T	746	QPN	ZG	0.00	510.00	0.40	510.00
15040	1583	-5341	T	746	QPN	ZG	0.00	510.00	0.35	510.00
15043	1520	1534	T	747	QPN	ZG	0.00	900.00	5.55	900.00
17003	1707	1708	S	1705	QPN	ZG	0.00	527.25	3.25	527.25
17003	1708	-6194	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6194	-6195	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6195	-6196	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6196	-6197	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6197	-6198	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6198	-6199	S	1705	QPN	ZG	0.00	527.25	0.36	527.25

15003	-5495	1519	T	718	QPN	ZG	0.00	900.00	0.36	900.00
15003	1519	-5496	T	719	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5496	-5497	T	719	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5497	-5498	T	719	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5498	-5499	T	719	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5499	-5500	T	719	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5500	-5501	T	719	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5501	-5502	T	719	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5502	-5503	T	719	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5503	1520	T	719	QPN	ZG	0.00	900.00	0.36	900.00
15007	1525	1526	S	1506	QPN	ZG	0.00	491.15	3.25	491.15
15007	1526	1527	S	1506	QPN	ZG	0.00	491.15	3.25	491.15
15007	1527	1589	S	1506	QPN	ZG	0.00	491.15	3.20	491.15
15007	1591	1592	S	1505	QPN	ZG	0.00	527.25	0.72	527.25
15007	1592	1528	S	1505	QPN	ZG	0.00	527.25	3.18	527.25
15007	1528	1529	S	1505	QPN	ZG	0.00	527.25	3.25	527.25
15007	1529	1530	S	1508	QPN	ZG	0.00	527.25	3.25	527.25
15007	1530	1531	S	1508	QPN	ZG	0.00	527.25	3.25	527.25
15007	1531	1532	S	1508	QPN	ZG	0.00	527.25	3.25	527.25
15007	1532	1593	S	1508	QPN	ZG	0.00	527.25	3.25	527.25
15007	1595	1596	S	1508	QPN	ZG	0.00	527.25	0.67	527.25
15007	1596	1533	S	1508	QPN	ZG	0.00	527.25	3.23	527.25
15007	1533	1534	S	1508	QPN	ZG	0.00	527.25	3.23	527.25
15009	1541	1542	T	726	QPN	ZG	0.00	900.00	3.25	900.00
15009	1542	1543	T	727	QPN	ZG	0.00	900.00	3.25	900.00
15009	1543	1544	T	728	QPN	ZG	0.00	900.00	3.20	900.00
15009	1545	1546	S	1503	QPN	ZG	0.00	491.15	3.18	491.15
15009	1546	1547	S	1503	QPN	ZG	0.00	491.15	3.25	491.15
15009	1547	1548	S	1504	QPN	ZG	0.00	491.15	3.25	491.15
15009	1548	1549	S	1504	QPN	ZG	0.00	491.15	3.25	491.15
15009	1549	1550	S	1504	QPN	ZG	0.00	491.15	3.25	491.15
15009	1550	1551	S	1504	QPN	ZG	0.00	491.15	3.25	491.15
15009	1551	1552	T	1336	QPN	ZG	0.00	450.00	2.90	450.00
15009	1552	1553	T	737	QPN	ZG	0.00	900.00	3.23	900.00
15009	1553	1554	T	738	QPN	ZG	0.00	900.00	3.23	900.00
15023	-5128	-5041	T	743	QPN	ZG	0.00	510.00	0.40	510.00
15023	1578	-5336	T	743	QPN	ZG	0.00	510.00	0.35	510.00
15028	1564	-5042	T	744	QPN	ZG	0.00	510.00	0.40	510.00
15028	-5129	1579	T	744	QPN	ZG	0.00	510.00	0.40	510.00
15028	-5337	1511	T	744	QPN	ZG	0.00	510.00	0.35	510.00
15036	-5132	-5045	T	745	QPN	ZG	0.00	510.00	0.40	510.00
15036	1582	-5340	T	745	QPN	ZG	0.00	510.00	0.35	510.00
15040	1570	-5046	T	746	QPN	ZG	0.00	510.00	0.40	510.00
15040	-5133	1583	T	746	QPN	ZG	0.00	510.00	0.40	510.00
15040	-5341	1518	T	746	QPN	ZG	0.00	510.00	0.35	510.00
15043	1554	1534	T	748	QPN	ZG	0.00	900.00	5.17	900.00
17003	1707	1708	T	807	QPN	ZG	0.00	900.00	3.25	900.00
17003	1708	-6194	T	808	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6194	-6195	T	808	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6195	-6196	T	808	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6196	-6197	T	808	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6197	-6198	T	808	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6198	-6199	T	808	QPN	ZG	0.00	900.00	0.36	900.00



# Relazione di calcolo

17003	-6199	-6200	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6200	-6201	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6201	1709	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	1709	-6202	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6202	-6203	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6203	-6204	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6204	-6205	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6205	-6206	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6206	-6207	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6207	-6208	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6208	1710	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	1710	-6209	S	1705	QPN	ZG	0.00	527.25	0.38	527.25
17003	-6209	-6210	S	1705	QPN	ZG	0.00	527.25	0.33	527.25
17003	-6209	-6210	S	1705	QPN	ZG	0.33	358.15	0.38	358.15
17003	-6210	-6211	T	810	QPN	ZG	0.00	900.00	0.38	900.00
17003	-6211	-6212	T	810	QPN	ZG	0.00	900.00	0.38	900.00
17003	-6212	-6213	T	810	QPN	ZG	0.00	900.00	0.38	900.00
17003	-6213	-6214	T	810	QPN	ZG	0.00	900.00	0.38	900.00
17003	-6214	-6215	T	810	QPN	ZG	0.00	900.00	0.38	900.00
17003	-6215	1711	S	1705	QPN	ZG	0.00	527.25	0.38	527.25
17003	1711	-6216	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6216	-6217	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6217	-6218	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6218	-6219	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6219	-6220	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6220	-6221	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6221	-6222	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	-6222	1712	S	1705	QPN	ZG	0.00	527.25	0.40	527.25
17003	1712	-6223	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6223	-6224	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6224	-6225	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6225	-6226	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6226	-6227	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6227	-6228	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6228	-6229	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6229	-6230	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6230	1713	S	1705	QPN	ZG	0.00	527.25	0.36	527.25
17003	1713	1714	S	1708	QPN	ZG	0.00	527.25	3.25	527.25
17003	1714	1715	S	1708	QPN	ZG	0.00	527.25	3.25	527.25
17003	1715	-6231	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6231	-6232	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6232	-6233	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6233	-6234	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6234	-6235	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6235	-6236	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6236	-6237	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6237	-6238	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6238	1716	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	1716	-6239	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6239	-6240	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6240	-6241	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6241	-6242	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6242	-6243	S	1708	QPN	ZG	0.00	527.25	0.36	527.25

17003	-6199	-6200	T	808	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6200	-6201	T	808	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6201	1709	T	808	QPN	ZG	0.00	900.00	0.36	900.00
17003	1709	-6202	T	809	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6202	-6203	T	809	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6203	-6204	T	809	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6204	-6205	T	809	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6205	-6206	T	809	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6206	-6207	T	809	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6207	-6208	T	809	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6208	1710	T	809	QPN	ZG	0.00	900.00	0.40	900.00
17003	1710	-6209	T	810	QPN	ZG	0.00	900.00	0.38	900.00
17003	-6209	-6210	T	810	QPN	ZG	0.00	900.00	0.38	900.00
17003	-6210	-6211	S	1705	QPN	ZG	0.00	358.15	0.38	358.15
17003	-6211	-6212	S	1705	QPN	ZG	0.00	358.15	0.38	358.15
17003	-6212	-6213	S	1705	QPN	ZG	0.00	358.15	0.38	358.15
17003	-6213	-6214	S	1705	QPN	ZG	0.00	358.15	0.38	358.15
17003	-6214	-6215	S	1705	QPN	ZG	0.00	358.15	0.03	358.15
17003	-6214	-6215	S	1705	QPN	ZG	0.03	527.25	0.38	527.25
17003	-6215	1711	T	810	QPN	ZG	0.00	900.00	0.38	900.00
17003	1711	-6216	T	811	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6216	-6217	T	811	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6217	-6218	T	811	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6218	-6219	T	811	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6219	-6220	T	811	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6220	-6221	T	811	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6221	-6222	T	811	QPN	ZG	0.00	900.00	0.40	900.00
17003	-6222	1712	T	811	QPN	ZG	0.00	900.00	0.40	900.00
17003	1712	-6223	T	812	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6223	-6224	T	812	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6224	-6225	T	812	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6225	-6226	T	812	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6226	-6227	T	812	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6227	-6228	T	812	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6228	-6229	T	812	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6229	-6230	T	812	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6230	1713	T	812	QPN	ZG	0.00	900.00	0.36	900.00
17003	1713	1714	T	813	QPN	ZG	0.00	900.00	3.25	900.00
17003	1714	1715	T	814	QPN	ZG	0.00	900.00	3.25	900.00
17003	1715	-6231	T	815	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6231	-6232	T	815	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6232	-6233	T	815	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6233	-6234	T	815	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6234	-6235	T	815	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6235	-6236	T	815	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6236	-6237	T	815	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6237	-6238	T	815	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6238	1716	T	815	QPN	ZG	0.00	900.00	0.36	900.00
17003	1716	-6239	T	816	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6239	-6240	T	816	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6240	-6241	T	816	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6241	-6242	T	816	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6242	-6243	T	816	QPN	ZG	0.00	900.00	0.36	900.00



# Relazione di calcolo

17003	-6243	-6244	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6244	-6245	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6245	-6246	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6246	1717	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	1717	-6247	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6247	-6248	S	1708	QPN	ZG	0.00	527.25	0.29	527.25
17003	-6247	-6248	S	1708	QPN	ZG	0.29	358.15	0.36	358.15
17003	-6248	-6249	T	817	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6249	-6250	T	817	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6250	-6251	T	817	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6251	-6252	T	817	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6252	-6253	T	817	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6253	1718	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	1718	-6254	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6254	-6255	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6255	-6256	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6256	-6257	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6257	-6258	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6258	-6259	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6259	-6260	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6260	-6261	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6261	1719	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	1719	-6262	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6262	-6263	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6263	-6264	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6264	-6265	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6265	-6266	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6266	-6267	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6267	-6268	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6268	-6269	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6269	1720	S	1708	QPN	ZG	0.00	527.25	0.36	527.25
17007	1725	1726	S	1705	QPN	ZG	0.00	527.25	3.25	527.25
17007	1726	1727	S	1705	QPN	ZG	0.00	527.25	3.25	527.25
17007	1727	1789	S	1705	QPN	ZG	0.00	527.25	3.20	527.25
17007	1789	1790	S	1705	QPN	ZG	0.00	527.25	0.70	527.25
17007	1792	1728	S	1703	QPN	ZG	0.00	491.15	3.18	491.15
17007	1728	1729	S	1703	QPN	ZG	0.00	491.15	3.25	491.15
17007	1729	1730	S	1704	QPN	ZG	0.00	491.15	3.25	491.15
17007	1730	1731	S	1704	QPN	ZG	0.00	491.15	3.25	491.15
17007	1731	1732	S	1704	QPN	ZG	0.00	491.15	3.25	491.15
17007	1732	1793	S	1704	QPN	ZG	0.00	491.15	3.25	491.15
17007	1793	1794	S	1708	QPN	ZG	0.00	527.25	0.65	527.25
17007	1796	1733	S	1707	QPN	ZG	0.00	491.15	3.23	491.15
17007	1733	1734	S	1707	QPN	ZG	0.00	491.15	3.23	491.15
17009	1741	1742	S	1706	QPN	ZG	0.00	491.15	3.25	491.15
17009	1742	1743	S	1706	QPN	ZG	0.00	491.15	3.25	491.15
17009	1743	1744	S	1706	QPN	ZG	0.00	491.15	3.20	491.15
17009	1744	1745	T	1529	QPN	ZG	0.00	450.00	3.00	450.00
17009	1745	1746	T	830	QPN	ZG	0.00	900.00	3.18	900.00
17009	1746	1747	T	831	QPN	ZG	0.00	900.00	3.25	900.00
17009	1747	1748	T	832	QPN	ZG	0.00	900.00	3.25	900.00
17009	1748	1749	T	833	QPN	ZG	0.00	900.00	3.25	900.00
17009	1749	1750	T	834	QPN	ZG	0.00	900.00	3.25	900.00

17003	-6243	-6244	T	816	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6244	-6245	T	816	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6245	-6246	T	816	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6246	1717	T	816	QPN	ZG	0.00	900.00	0.36	900.00
17003	1717	-6247	T	817	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6247	-6248	T	817	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6248	-6249	S	1708	QPN	ZG	0.00	358.15	0.36	358.15
17003	-6249	-6250	S	1708	QPN	ZG	0.00	358.15	0.36	358.15
17003	-6250	-6251	S	1708	QPN	ZG	0.00	358.15	0.36	358.15
17003	-6251	-6252	S	1708	QPN	ZG	0.00	358.15	0.36	358.15
17003	-6252	-6253	S	1708	QPN	ZG	0.00	358.15	0.06	358.15
17003	-6252	-6253	S	1708	QPN	ZG	0.06	527.25	0.36	527.25
17003	-6253	1718	T	817	QPN	ZG	0.00	900.00	0.36	900.00
17003	1718	-6254	T	818	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6254	-6255	T	818	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6255	-6256	T	818	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6256	-6257	T	818	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6257	-6258	T	818	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6258	-6259	T	818	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6259	-6260	T	818	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6260	-6261	T	818	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6261	1719	T	818	QPN	ZG	0.00	900.00	0.36	900.00
17003	1719	-6262	T	819	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6262	-6263	T	819	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6263	-6264	T	819	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6264	-6265	T	819	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6265	-6266	T	819	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6266	-6267	T	819	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6267	-6268	T	819	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6268	-6269	T	819	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6269	1720	T	819	QPN	ZG	0.00	900.00	0.36	900.00
17007	1725	1726	S	1706	QPN	ZG	0.00	491.15	3.25	491.15
17007	1726	1727	S	1706	QPN	ZG	0.00	491.15	3.25	491.15
17007	1727	1789	S	1706	QPN	ZG	0.00	491.15	3.20	491.15
17007	1791	1792	S	1705	QPN	ZG	0.00	527.25	0.72	527.25
17007	1792	1728	S	1705	QPN	ZG	0.00	527.25	3.18	527.25
17007	1728	1729	S	1705	QPN	ZG	0.00	527.25	3.25	527.25
17007	1729	1730	S	1708	QPN	ZG	0.00	527.25	3.25	527.25
17007	1730	1731	S	1708	QPN	ZG	0.00	527.25	3.25	527.25
17007	1731	1732	S	1708	QPN	ZG	0.00	527.25	3.25	527.25
17007	1732	1793	S	1708	QPN	ZG	0.00	527.25	3.25	527.25
17007	1795	1796	S	1708	QPN	ZG	0.00	527.25	0.67	527.25
17007	1796	1733	S	1708	QPN	ZG	0.00	527.25	3.23	527.25
17007	1733	1734	S	1708	QPN	ZG	0.00	527.25	3.23	527.25
17009	1741	1742	T	826	QPN	ZG	0.00	900.00	3.25	900.00
17009	1742	1743	T	827	QPN	ZG	0.00	900.00	3.25	900.00
17009	1743	1744	T	828	QPN	ZG	0.00	900.00	3.20	900.00
17009	1745	1746	S	1703	QPN	ZG	0.00	491.15	3.18	491.15
17009	1746	1747	S	1703	QPN	ZG	0.00	491.15	3.25	491.15
17009	1747	1748	S	1704	QPN	ZG	0.00	491.15	3.25	491.15
17009	1748	1749	S	1704	QPN	ZG	0.00	491.15	3.25	491.15
17009	1749	1750	S	1704	QPN	ZG	0.00	491.15	3.25	491.15
17009	1750	1751	S	1704	QPN	ZG	0.00	491.15	3.25	491.15



# Relazione di calcolo

17009	1750	1751	T	835	QPN	ZG	0.00	900.00	3.25	900.00
17009	1752	1753	S	1707	QPN	ZG	0.00	491.15	3.23	491.15
17009	1753	1754	S	1707	QPN	ZG	0.00	491.15	3.23	491.15
17023	-5807	1763	T	843	QPN	ZG	0.00	510.00	0.40	510.00
17023	1778	-5894	T	843	QPN	ZG	0.00	510.00	0.40	510.00
17023	-6102	1710	T	843	QPN	ZG	0.00	510.00	0.35	510.00
17028	-5808	-5895	T	844	QPN	ZG	0.00	510.00	0.40	510.00
17028	1779	-6103	T	844	QPN	ZG	0.00	510.00	0.35	510.00
17036	-5811	1769	T	845	QPN	ZG	0.00	510.00	0.40	510.00
17036	1782	-5898	T	845	QPN	ZG	0.00	510.00	0.40	510.00
17036	-6106	1717	T	845	QPN	ZG	0.00	510.00	0.35	510.00
17040	-5812	-5899	T	846	QPN	ZG	0.00	510.00	0.40	510.00
17040	1783	-6107	T	846	QPN	ZG	0.00	510.00	0.35	510.00
17043	1720	1734	T	847	QPN	ZG	0.00	900.00	5.55	900.00
18052	-6391	1845	T	1629	QPN	ZG	0.00	450.00	1.50	450.00
19003	1908	-6959	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6960	-6961	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6962	-6963	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6964	-6965	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6966	1909	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6967	-6968	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6969	-6970	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6971	-6972	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6973	1910	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6974	-6975	S	1905	QPN	ZG	0.00	1110.00	0.33	1110.00
19003	-6975	-6976	S	1905	QPN	ZG	0.00	754.00	0.38	754.00
19003	-6977	-6978	S	1905	QPN	ZG	0.00	754.00	0.38	754.00
19003	-6979	-6980	S	1905	QPN	ZG	0.00	754.00	0.03	754.00
19003	-6980	1911	S	1905	QPN	ZG	0.00	1110.00	0.38	1110.00
19003	-6981	-6982	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6983	-6984	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6985	-6986	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6987	1912	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6988	-6989	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6990	-6991	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6992	-6993	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6994	-6995	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1913	1914	S	1904	QPN	ZG	0.00	1110.00	3.25	1110.00
19003	1915	-6996	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6997	-6998	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6999	-7000	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7001	-7002	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7003	1916	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7004	-7005	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7006	-7007	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7008	-7009	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7010	-7011	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1917	-7012	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7012	-7013	S	1904	QPN	ZG	0.29	754.00	0.36	754.00
19003	-7014	-7015	S	1904	QPN	ZG	0.00	754.00	0.36	754.00
19003	-7016	-7017	S	1904	QPN	ZG	0.00	754.00	0.36	754.00
19003	-7017	-7018	S	1904	QPN	ZG	0.06	1110.00	0.36	1110.00
19003	1918	-7019	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00

17009	1751	1752	T	1536	QPN	ZG	0.00	450.00	2.90	450.00
17009	1752	1753	T	837	QPN	ZG	0.00	900.00	3.23	900.00
17009	1753	1754	T	838	QPN	ZG	0.00	900.00	3.23	900.00
17023	-5894	-5807	T	843	QPN	ZG	0.00	510.00	0.40	510.00
17023	1778	-6102	T	843	QPN	ZG	0.00	510.00	0.35	510.00
17028	1764	-5808	T	844	QPN	ZG	0.00	510.00	0.40	510.00
17028	-5895	1779	T	844	QPN	ZG	0.00	510.00	0.40	510.00
17028	-6103	1711	T	844	QPN	ZG	0.00	510.00	0.35	510.00
17036	-5898	-5811	T	845	QPN	ZG	0.00	510.00	0.40	510.00
17036	1782	-6106	T	845	QPN	ZG	0.00	510.00	0.35	510.00
17040	1770	-5812	T	846	QPN	ZG	0.00	510.00	0.40	510.00
17040	-5899	1783	T	846	QPN	ZG	0.00	510.00	0.40	510.00
17040	-6107	1718	T	846	QPN	ZG	0.00	510.00	0.35	510.00
17043	1754	1734	T	848	QPN	ZG	0.00	900.00	5.17	900.00
19003	1907	1908	S	1905	QPN	ZG	0.00	1110.00	3.25	1110.00
19003	-6959	-6960	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6961	-6962	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6963	-6964	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6965	-6966	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1909	-6967	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6968	-6969	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6970	-6971	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6972	-6973	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	1910	-6974	S	1905	QPN	ZG	0.00	1110.00	0.38	1110.00
19003	-6974	-6975	S	1905	QPN	ZG	0.33	754.00	0.38	754.00
19003	-6976	-6977	S	1905	QPN	ZG	0.00	754.00	0.38	754.00
19003	-6978	-6979	S	1905	QPN	ZG	0.00	754.00	0.38	754.00
19003	-6979	-6980	S	1905	QPN	ZG	0.03	1110.00	0.38	1110.00
19003	1911	-6981	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6982	-6983	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6984	-6985	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	-6986	-6987	S	1905	QPN	ZG	0.00	1110.00	0.40	1110.00
19003	1912	-6988	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6989	-6990	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6991	-6992	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6993	-6994	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6995	1913	S	1905	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1914	1915	S	1904	QPN	ZG	0.00	1110.00	3.25	1110.00
19003	-6996	-6997	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6998	-6999	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7000	-7001	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7002	-7003	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1916	-7004	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7005	-7006	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7007	-7008	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7009	-7010	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7011	1917	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7012	-7013	S	1904	QPN	ZG	0.00	1110.00	0.29	1110.00
19003	-7013	-7014	S	1904	QPN	ZG	0.00	754.00	0.36	754.00
19003	-7015	-7016	S	1904	QPN	ZG	0.00	754.00	0.36	754.00
19003	-7017	-7018	S	1904	QPN	ZG	0.00	754.00	0.06	754.00
19003	-7018	1918	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7019	-7020	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00



# Relazione di calcolo

19003	-7020	-7021	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7022	-7023	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7024	-7025	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7026	1919	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7027	-7028	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7029	-7030	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7031	-7032	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7033	-7034	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19007	1925	1926	S	1905	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1926	1927	S	1905	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1927	1989	S	1905	QPN	ZG	0.00	1110.00	3.20	1110.00
19007	1989	1990	S	1905	QPN	ZG	0.00	1110.00	0.70	1110.00
19007	1992	1928	S	1903	QPN	ZG	0.00	1034.00	3.18	1034.00
19007	1928	1929	S	1903	QPN	ZG	0.00	1034.00	3.25	1034.00
19007	1929	1930	S	1904	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1930	1931	S	1904	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1931	1932	S	1904	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1932	1993	S	1904	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1993	1994	S	1904	QPN	ZG	0.00	1110.00	0.65	1110.00
19007	1996	1933	S	1904	QPN	ZG	0.00	1110.00	3.23	1110.00
19007	1933	1934	S	1904	QPN	ZG	0.00	1110.00	3.23	1110.00
19009	1941	1942	S	1906	QPN	ZG	0.00	1034.00	3.25	1034.00
19009	1943	1944	S	1906	QPN	ZG	0.00	1034.00	3.20	1034.00
19009	1946	1947	S	1903	QPN	ZG	0.00	1034.00	3.25	1034.00
19009	1948	1949	S	1908	QPN	ZG	0.00	1034.00	3.25	1034.00
19009	1950	1951	S	1908	QPN	ZG	0.00	1034.00	3.25	1034.00
19009	1953	1954	S	1907	QPN	ZG	0.00	1034.00	3.23	1034.00
22020	25	41	S	2208	QPN	ZG	0.00	325.00	5.17	325.00
22021	8	26	S	2209	QPN	ZG	0.00	325.00	5.55	325.00
22021	26	42	S	2208	QPN	ZG	0.00	325.00	5.17	325.00
22022	9	27	S	2220	QPN	ZG	0.00	320.00	5.55	320.00
22022	27	43	S	2221	QPN	ZG	0.00	320.00	5.17	320.00
22024	10	59	S	2223	QPN	ZG	0.00	300.00	2.66	300.00
22024	59	-105	S	2223	QPN	ZG	0.00	300.00	1.11	300.00
22024	-105	-123	S	2223	QPN	ZG	0.00	300.00	0.59	300.00
22024	-123	-140	S	2223	QPN	ZG	0.00	300.00	0.59	300.00
22024	-140	-157	S	2223	QPN	ZG	0.00	300.00	0.59	300.00
22024	-157	-178	S	2222	QPN	ZG	0.00	300.00	1.11	300.00
22024	-178	44	S	2222	QPN	ZG	0.00	300.00	4.06	300.00
22027	11	60	S	2224	QPN	ZG	0.00	318.00	2.66	318.00
22027	60	-109	S	2224	QPN	ZG	0.00	318.00	1.11	318.00
22027	-109	-127	S	2224	QPN	ZG	0.00	318.00	0.59	318.00
22027	-127	-144	S	2224	QPN	ZG	0.00	318.00	0.59	318.00
22027	-144	-161	S	2224	QPN	ZG	0.00	318.00	0.59	318.00
22027	-161	-182	S	2225	QPN	ZG	0.00	318.00	1.11	318.00
22027	-182	45	S	2225	QPN	ZG	0.00	318.00	4.06	318.00
22029	12	28	S	2224	QPN	ZG	0.00	318.00	5.55	318.00
22029	28	46	S	2225	QPN	ZG	0.00	318.00	5.17	318.00
22030	13	29	S	2204	QPN	ZG	0.00	325.00	5.55	325.00
22030	29	47	S	2205	QPN	ZG	0.00	325.00	5.17	325.00
22042	19	133	S	2228	QPN	ZG	0.00	323.00	5.55	323.00
22043	34	54	S	2226	QPN	ZG	0.00	323.00	5.17	323.00
22136	130	169	S	2231	QPN	ZG	0.00	555.00	3.25	555.00

19003	-7021	-7022	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7023	-7024	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7025	-7026	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1919	-7027	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7028	-7029	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7030	-7031	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7032	-7033	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-7034	1920	S	1904	QPN	ZG	0.00	1110.00	0.36	1110.00
19007	1925	1926	S	1906	QPN	ZG	0.00	1034.00	3.25	1034.00
19007	1926	1927	S	1906	QPN	ZG	0.00	1034.00	3.25	1034.00
19007	1927	1989	S	1906	QPN	ZG	0.00	1034.00	3.20	1034.00
19007	1991	1992	S	1905	QPN	ZG	0.00	1110.00	0.72	1110.00
19007	1992	1928	S	1905	QPN	ZG	0.00	1110.00	3.18	1110.00
19007	1928	1929	S	1905	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1929	1930	S	1908	QPN	ZG	0.00	1034.00	3.25	1034.00
19007	1930	1931	S	1908	QPN	ZG	0.00	1034.00	3.25	1034.00
19007	1931	1932	S	1908	QPN	ZG	0.00	1034.00	3.25	1034.00
19007	1932	1993	S	1908	QPN	ZG	0.00	1034.00	3.25	1034.00
19007	1995	1996	S	1904	QPN	ZG	0.00	1110.00	0.67	1110.00
19007	1996	1933	S	1907	QPN	ZG	0.00	1034.00	3.23	1034.00
19007	1933	1934	S	1907	QPN	ZG	0.00	1034.00	3.23	1034.00
19009	1942	1943	S	1906	QPN	ZG	0.00	1034.00	3.25	1034.00
19009	1945	1946	S	1903	QPN	ZG	0.00	1034.00	3.18	1034.00
19009	1947	1948	S	1908	QPN	ZG	0.00	1034.00	3.25	1034.00
19009	1949	1950	S	1908	QPN	ZG	0.00	1034.00	3.25	1034.00
19009	1952	1953	S	1907	QPN	ZG	0.00	1034.00	3.23	1034.00
22020	7	25	S	2209	QPN	ZG	0.00	325.00	5.55	325.00
22021	8	26	S	2206	QPN	ZG	0.00	325.00	5.55	325.00
22021	26	42	S	2207	QPN	ZG	0.00	325.00	5.17	325.00
22022	9	27	S	2206	QPN	ZG	0.00	325.00	5.55	325.00
22022	27	43	S	2207	QPN	ZG	0.00	325.00	5.17	325.00
22024	10	59	S	2220	QPN	ZG	0.00	320.00	2.66	320.00
22024	59	-105	S	2220	QPN	ZG	0.00	320.00	1.11	320.00
22024	-105	-123	S	2220	QPN	ZG	0.00	320.00	0.59	320.00
22024	-123	-140	S	2220	QPN	ZG	0.00	320.00	0.59	320.00
22024	-140	-157	S	2220	QPN	ZG	0.00	320.00	0.59	320.00
22024	-157	-178	S	2221	QPN	ZG	0.00	320.00	1.11	320.00
22024	-178	44	S	2221	QPN	ZG	0.00	320.00	4.06	320.00
22027	11	60	S	2223	QPN	ZG	0.00	300.00	2.66	300.00
22027	60	-109	S	2223	QPN	ZG	0.00	300.00	1.11	300.00
22027	-109	-127	S	2223	QPN	ZG	0.00	300.00	0.59	300.00
22027	-127	-144	S	2223	QPN	ZG	0.00	300.00	0.59	300.00
22027	-144	-161	S	2223	QPN	ZG	0.00	300.00	0.59	300.00
22027	-161	-182	S	2222	QPN	ZG	0.00	300.00	1.11	300.00
22027	-182	45	S	2222	QPN	ZG	0.00	300.00	4.06	300.00
22029	12	28	S	2204	QPN	ZG	0.00	325.00	5.55	325.00
22029	28	46	S	2205	QPN	ZG	0.00	325.00	5.17	325.00
22030	13	29	S	2202	QPN	ZG	0.00	325.00	5.55	325.00
22030	29	47	S	2203	QPN	ZG	0.00	325.00	5.17	325.00
22042	19	133	S	2227	QPN	ZG	0.00	323.00	5.55	323.00
22043	20	34	S	2228	QPN	ZG	0.00	323.00	5.55	323.00
22136	130	169	S	2230	QPN	ZG	0.00	517.00	3.25	517.00
22136	169	170	S	2230	QPN	ZG	0.00	517.00	3.25	517.00



# Relazione di calcolo

22136	169	170	S	2231	QPN	ZG	0.00	555.00	3.25	555.00
22136	170	-163	S	2231	QPN	ZG	0.00	555.00	3.90	555.00
22179	-165	-166	S	2231	QPN	ZG	0.00	555.00	0.34	555.00
22179	-166	-167	S	2231	QPN	ZG	0.00	555.00	0.34	555.00

22136	170	-163	S	2230	QPN	ZG	0.00	517.00	3.90	517.00
22179	-165	-166	S	2230	QPN	ZG	0.00	517.00	0.34	517.00
22179	-166	-167	S	2230	QPN	ZG	0.00	517.00	0.34	517.00

## Condizione di carico n. 3: Variabili Civile Abitazione Carichi distribuiti

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1682	-1683	S	504	QA	ZG	0.00	377.00	0.79	377.00
0	-2447	-2448	S	702	QA	ZG	0.00	377.00	0.79	377.00
0	114	-84	S	2202	QA	ZG	0.00	325.00	1.85	325.00
0	-96	130	S	2202	QA	ZG	0.00	325.00	1.85	325.00
0	-184	148	S	2203	QA	ZG	0.00	325.00	2.58	325.00
0	114	115	S	2231	QA	ZG	0.00	555.00	3.25	555.00
0	-3977	-3978	S	1105	QA	ZG	0.00	377.00	0.79	377.00
0	149	150	S	2230	QA	ZG	0.00	517.00	3.25	517.00
0	-4742	-4743	S	1305	QA	ZG	0.00	377.00	0.79	377.00
0	-82	117	S	2231	QA	ZG	0.00	555.00	1.55	555.00
0	116	-82	S	2231	QA	ZG	0.00	555.00	1.70	555.00
0	117	-83	S	2231	QA	ZG	0.00	555.00	1.44	555.00
0	-5508	-5509	S	1505	QA	ZG	0.00	377.00	0.79	377.00
0	-163	-164	S	2230	QA	ZG	0.00	517.00	0.79	517.00
0	-7132	-7131	S	2230	QA	ZG	0.00	517.00	0.72	517.00
0	150	151	S	2230	QA	ZG	0.00	517.00	3.25	517.00
0	-164	-165	S	2230	QA	ZG	0.00	517.00	0.79	517.00
0	-148	-131	S	2227	QA	ZG	0.00	323.00	0.59	323.00
0	-131	-114	S	2227	QA	ZG	0.00	323.00	0.59	323.00
0	-6273	-6274	S	1705	QA	ZG	0.00	377.00	0.79	377.00
0	-169	-168	S	2230	QA	ZG	0.00	517.00	0.81	517.00
0	133	-169	S	2230	QA	ZG	0.00	517.00	1.88	517.00
0	-7038	-7039	S	1905	QA	ZG	0.00	377.00	0.79	377.00
0	-1686	-1687	S	507	QA	ZG	0.00	377.00	0.79	377.00
0	-7039	-7040	S	1905	QA	ZG	0.00	377.00	0.79	377.00
0	-1685	-1686	S	507	QA	ZG	0.00	377.00	0.79	377.00
0	-2451	-2452	S	706	QA	ZG	0.00	377.00	0.79	377.00
0	-3216	-3217	S	907	QA	ZG	0.00	377.00	0.79	377.00
0	-3980	-3981	S	1108	QA	ZG	0.00	377.00	0.79	377.00
0	-4746	-4747	S	1308	QA	ZG	0.00	377.00	0.79	377.00
0	-5511	-5512	S	1508	QA	ZG	0.00	377.00	0.79	377.00
0	-6277	-6278	S	1708	QA	ZG	0.00	377.00	0.79	377.00
0	-7042	-7043	S	1904	QA	ZG	0.00	377.00	0.79	377.00
1003	155	156	S	104	QA	ZG	0.00	185.00	3.25	185.00
1004	-3	-4	S	103	QA	ZG	0.00	185.00	8.20	185.00
1005	-11	-12	S	102	QA	ZG	0.00	185.00	8.20	185.00
1007	160	131	S	101	QA	ZG	0.00	258.50	3.25	258.50
1007	131	132	S	101	QA	ZG	0.00	258.50	3.25	258.50
1007	132	161	S	101	QA	ZG	0.00	258.50	1.70	258.50
1007	161	-34	S	101	QA	ZG	0.00	258.50	0.99	258.50
1007	-35	-36	S	101	QA	ZG	0.00	258.50	0.65	258.50
1007	-37	-38	S	101	QA	ZG	0.00	258.50	0.79	258.50
1007	-39	-40	S	101	QA	ZG	0.00	258.50	0.54	258.50
1007	-41	162	S	101	QA	ZG	0.00	258.50	1.88	258.50
1008	-49	-50	S	101	QA	ZG	0.00	258.50	15.88	258.50

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1683	-1684	S	504	QA	ZG	0.00	377.00	0.79	377.00
0	-2448	-2449	S	702	QA	ZG	0.00	377.00	0.79	377.00
0	-84	-96	S	2202	QA	ZG	0.00	325.00	1.85	325.00
0	130	-184	S	2203	QA	ZG	0.00	325.00	2.58	325.00
0	-3212	-3213	S	904	QA	ZG	0.00	377.00	0.79	377.00
0	-3213	-3214	S	904	QA	ZG	0.00	377.00	0.79	377.00
0	-3978	-3979	S	1105	QA	ZG	0.00	377.00	0.79	377.00
0	115	116	S	2231	QA	ZG	0.00	555.00	3.25	555.00
0	-4743	-4744	S	1305	QA	ZG	0.00	377.00	0.79	377.00
0	148	149	S	2230	QA	ZG	0.00	517.00	3.25	517.00
0	-83	118	S	2231	QA	ZG	0.00	555.00	1.46	555.00
0	-5507	-5508	S	1505	QA	ZG	0.00	377.00	0.79	377.00
0	-95	118	S	2227	QA	ZG	0.00	323.00	2.66	323.00
0	-163	-164	S	2231	QA	ZG	0.00	555.00	0.79	555.00
0	-167	-148	S	2227	QA	ZG	0.00	323.00	0.59	323.00
0	-114	-95	S	2227	QA	ZG	0.00	323.00	1.11	323.00
0	-164	-165	S	2231	QA	ZG	0.00	555.00	0.79	555.00
0	-7131	-7133	S	2230	QA	ZG	0.00	517.00	0.72	517.00
0	-6274	-6275	S	1705	QA	ZG	0.00	377.00	0.79	377.00
0	-168	-167	S	2230	QA	ZG	0.00	517.00	0.54	517.00
0	152	153	S	2230	QA	ZG	0.00	517.00	3.23	517.00
0	-185	133	S	2226	QA	ZG	0.00	323.00	2.58	323.00
0	-7133	152	S	2230	QA	ZG	0.00	517.00	0.72	517.00
0	153	-185	S	2226	QA	ZG	0.00	323.00	2.58	323.00
0	151	-7132	S	2230	QA	ZG	0.00	517.00	0.72	517.00
0	-2450	-2451	S	706	QA	ZG	0.00	377.00	0.79	377.00
0	-3215	-3216	S	907	QA	ZG	0.00	377.00	0.79	377.00
0	-3981	-3982	S	1108	QA	ZG	0.00	377.00	0.79	377.00
0	-4745	-4746	S	1308	QA	ZG	0.00	377.00	0.79	377.00
0	-5510	-5511	S	1508	QA	ZG	0.00	377.00	0.79	377.00
0	-6276	-6277	S	1708	QA	ZG	0.00	377.00	0.79	377.00
0	-7041	-7042	S	1904	QA	ZG	0.00	377.00	0.79	377.00
1003	154	155	S	104	QA	ZG	0.00	185.00	3.25	185.00
1003	156	-1	S	104	QA	ZG	0.00	185.00	1.70	185.00
1004	-3	-4	S	104	QA	ZG	0.00	185.00	8.20	185.00
1005	-11	-12	S	103	QA	ZG	0.00	185.00	8.20	185.00
1007	160	131	S	102	QA	ZG	0.00	185.00	3.25	185.00
1007	131	132	S	102	QA	ZG	0.00	185.00	3.25	185.00
1007	132	161	S	102	QA	ZG	0.00	185.00	1.70	185.00
1007	-34	-35	S	101	QA	ZG	0.00	258.50	0.56	258.50
1007	-36	-37	S	101	QA	ZG	0.00	258.50	0.79	258.50
1007	-38	-39	S	101	QA	ZG	0.00	258.50	0.67	258.50
1007	-40	-41	S	101	QA	ZG	0.00	258.50	0.81	258.50
1008	-49	-50	S	100	QA	ZG	0.00	258.50	15.88	258.50
1009	163	164	S	100	QA	ZG	0.00	258.50	3.25	258.50



# Relazione di calcolo

1009	164	165	S	100	QA	ZG	0.00	258.50	3.25	258.50
1009	166	-7135	S	100	QA	ZG	0.00	258.50	0.72	258.50
1009	-7134	-7136	S	100	QA	ZG	0.00	258.50	0.72	258.50
1009	167	168	S	100	QA	ZG	0.00	258.50	3.23	258.50
1034	-4	-12	S	105	QA	ZG	0.00	155.00	1.85	155.00
1035	157	159	S	105	QA	ZG	0.00	155.00	2.66	155.00
1035	159	-14	S	105	QA	ZG	0.00	155.00	1.11	155.00
1035	-14	-21	S	105	QA	ZG	0.00	155.00	0.59	155.00
1035	-21	-28	S	105	QA	ZG	0.00	155.00	0.59	155.00
1035	-28	-35	S	105	QA	ZG	0.00	155.00	0.59	155.00
1041	158	-9	S	106	QA	ZG	0.00	290.00	2.66	290.00
1041	-18	-25	S	106	QA	ZG	0.00	290.00	0.59	290.00
1041	-32	-39	S	106	QA	ZG	0.00	290.00	0.59	290.00
3003	308	-829	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-830	-831	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-832	-833	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-834	-835	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-836	309	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-837	-838	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-839	-840	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-841	-842	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-843	310	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-844	-845	S	304	QA	ZG	0.00	555.00	0.33	555.00
3003	-845	-846	S	304	QA	ZG	0.00	377.00	0.38	377.00
3003	-847	-848	S	304	QA	ZG	0.00	377.00	0.38	377.00
3003	-849	-850	S	304	QA	ZG	0.00	377.00	0.03	377.00
3003	-850	311	S	304	QA	ZG	0.00	555.00	0.38	555.00
3003	-851	-852	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-853	-854	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-855	-856	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-857	312	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-858	-859	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-860	-861	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-862	-863	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-864	-865	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	313	314	S	307	QA	ZG	0.00	555.00	3.25	555.00
3003	315	-866	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-867	-868	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-869	-870	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-871	-872	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-873	316	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-874	-875	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-876	-877	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-878	-879	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-880	-881	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	317	-882	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-882	-883	S	307	QA	ZG	0.29	377.00	0.36	377.00
3003	-884	-885	S	307	QA	ZG	0.00	377.00	0.36	377.00
3003	-886	-887	S	307	QA	ZG	0.00	377.00	0.36	377.00
3003	-887	-888	S	307	QA	ZG	0.06	555.00	0.36	555.00
3003	318	-889	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-890	-891	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-892	-893	S	307	QA	ZG	0.00	555.00	0.36	555.00

1009	165	166	S	100	QA	ZG	0.00	258.50	3.25	258.50
1009	-7135	-7134	S	100	QA	ZG	0.00	258.50	0.72	258.50
1009	-7136	167	S	100	QA	ZG	0.00	258.50	0.72	258.50
1034	-1	-4	S	105	QA	ZG	0.00	155.00	1.85	155.00
1034	-12	161	S	105	QA	ZG	0.00	155.00	1.85	155.00
1035	157	159	S	106	QA	ZG	0.00	290.00	2.66	290.00
1035	159	-14	S	106	QA	ZG	0.00	290.00	1.11	290.00
1035	-14	-21	S	106	QA	ZG	0.00	290.00	0.59	290.00
1035	-21	-28	S	106	QA	ZG	0.00	290.00	0.59	290.00
1035	-28	-35	S	106	QA	ZG	0.00	290.00	0.59	290.00
1041	-9	-18	S	106	QA	ZG	0.00	290.00	1.11	290.00
1041	-25	-32	S	106	QA	ZG	0.00	290.00	0.59	290.00
3003	307	308	S	304	QA	ZG	0.00	555.00	3.25	555.00
3003	-829	-830	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-831	-832	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-833	-834	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-835	-836	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	309	-837	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-838	-839	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-840	-841	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-842	-843	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	310	-844	S	304	QA	ZG	0.00	555.00	0.38	555.00
3003	-844	-845	S	304	QA	ZG	0.33	377.00	0.38	377.00
3003	-846	-847	S	304	QA	ZG	0.00	377.00	0.38	377.00
3003	-848	-849	S	304	QA	ZG	0.00	377.00	0.38	377.00
3003	-849	-850	S	304	QA	ZG	0.03	555.00	0.38	555.00
3003	311	-851	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-852	-853	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-854	-855	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	-856	-857	S	304	QA	ZG	0.00	555.00	0.40	555.00
3003	312	-858	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-859	-860	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-861	-862	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-863	-864	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	-865	313	S	304	QA	ZG	0.00	555.00	0.36	555.00
3003	314	315	S	307	QA	ZG	0.00	555.00	3.25	555.00
3003	-866	-867	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-868	-869	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-870	-871	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-872	-873	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	316	-874	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-875	-876	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-877	-878	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-879	-880	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-881	317	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-882	-883	S	307	QA	ZG	0.00	555.00	0.29	555.00
3003	-883	-884	S	307	QA	ZG	0.00	377.00	0.36	377.00
3003	-885	-886	S	307	QA	ZG	0.00	377.00	0.36	377.00
3003	-887	-888	S	307	QA	ZG	0.00	377.00	0.06	377.00
3003	-888	318	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-889	-890	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-891	-892	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-893	-894	S	307	QA	ZG	0.00	555.00	0.36	555.00



# Relazione di calcolo

3003	-894	-895	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-896	319	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-897	-898	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-899	-900	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-901	-902	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-903	-904	S	307	QA	ZG	0.00	555.00	0.36	555.00
3007	325	326	S	304	QA	ZG	0.00	555.00	3.25	555.00
3007	326	327	S	304	QA	ZG	0.00	555.00	3.25	555.00
3007	327	389	S	304	QA	ZG	0.00	555.00	3.20	555.00
3007	389	390	S	304	QA	ZG	0.00	555.00	0.70	555.00
3007	392	328	S	303	QA	ZG	0.00	517.00	3.18	517.00
3007	328	329	S	303	QA	ZG	0.00	517.00	3.25	517.00
3007	329	330	S	302	QA	ZG	0.00	517.00	3.25	517.00
3007	330	331	S	302	QA	ZG	0.00	517.00	3.25	517.00
3007	331	332	S	302	QA	ZG	0.00	517.00	3.25	517.00
3007	332	393	S	302	QA	ZG	0.00	517.00	3.25	517.00
3007	393	394	S	307	QA	ZG	0.00	555.00	0.65	555.00
3007	396	333	S	306	QA	ZG	0.00	517.00	3.23	517.00
3007	333	334	S	306	QA	ZG	0.00	517.00	3.23	517.00
3009	341	342	S	305	QA	ZG	0.00	517.00	3.25	517.00
3009	343	344	S	305	QA	ZG	0.00	517.00	3.20	517.00
3009	346	347	S	303	QA	ZG	0.00	517.00	3.25	517.00
3009	348	349	S	302	QA	ZG	0.00	517.00	3.25	517.00
3009	350	351	S	302	QA	ZG	0.00	517.00	3.25	517.00
3009	353	354	S	306	QA	ZG	0.00	517.00	3.23	517.00
3049	-909	-910	S	304	QA	ZG	0.00	377.00	0.79	377.00
3092	-912	-913	S	307	QA	ZG	0.00	377.00	0.79	377.00
5003	508	-1603	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1604	-1605	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1606	-1607	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1608	-1609	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1610	509	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1611	-1612	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1613	-1614	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1615	-1616	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1617	510	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1618	-1619	S	504	QA	ZG	0.00	555.00	0.33	555.00
5003	-1619	-1620	S	504	QA	ZG	0.00	377.00	0.38	377.00
5003	-1621	-1622	S	504	QA	ZG	0.00	377.00	0.38	377.00
5003	-1623	-1624	S	504	QA	ZG	0.00	377.00	0.03	377.00
5003	-1624	511	S	504	QA	ZG	0.00	555.00	0.38	555.00
5003	-1625	-1626	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1627	-1628	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1629	-1630	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1631	512	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1632	-1633	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1634	-1635	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1636	-1637	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1638	-1639	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	513	514	S	507	QA	ZG	0.00	555.00	3.25	555.00
5003	515	-1640	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1641	-1642	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1643	-1644	S	507	QA	ZG	0.00	555.00	0.36	555.00

3003	-895	-896	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	319	-897	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-898	-899	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-900	-901	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-902	-903	S	307	QA	ZG	0.00	555.00	0.36	555.00
3003	-904	320	S	307	QA	ZG	0.00	555.00	0.36	555.00
3007	325	326	S	305	QA	ZG	0.00	517.00	3.25	517.00
3007	326	327	S	305	QA	ZG	0.00	517.00	3.25	517.00
3007	327	389	S	305	QA	ZG	0.00	517.00	3.20	517.00
3007	391	392	S	304	QA	ZG	0.00	555.00	0.72	555.00
3007	392	328	S	304	QA	ZG	0.00	555.00	3.18	555.00
3007	328	329	S	304	QA	ZG	0.00	555.00	3.25	555.00
3007	329	330	S	307	QA	ZG	0.00	555.00	3.25	555.00
3007	330	331	S	307	QA	ZG	0.00	555.00	3.25	555.00
3007	331	332	S	307	QA	ZG	0.00	555.00	3.25	555.00
3007	332	393	S	307	QA	ZG	0.00	555.00	3.25	555.00
3007	395	396	S	307	QA	ZG	0.00	555.00	0.67	555.00
3007	396	333	S	307	QA	ZG	0.00	555.00	3.23	555.00
3007	333	334	S	307	QA	ZG	0.00	555.00	3.23	555.00
3009	342	343	S	305	QA	ZG	0.00	517.00	3.25	517.00
3009	345	346	S	303	QA	ZG	0.00	517.00	3.18	517.00
3009	347	348	S	302	QA	ZG	0.00	517.00	3.25	517.00
3009	349	350	S	302	QA	ZG	0.00	517.00	3.25	517.00
3009	352	353	S	306	QA	ZG	0.00	517.00	3.23	517.00
3049	-908	-909	S	304	QA	ZG	0.00	377.00	0.79	377.00
3092	-911	-912	S	307	QA	ZG	0.00	377.00	0.79	377.00
5003	507	508	S	504	QA	ZG	0.00	555.00	3.25	555.00
5003	-1603	-1604	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1605	-1606	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1607	-1608	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1609	-1610	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	509	-1611	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1612	-1613	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1614	-1615	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1616	-1617	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	510	-1618	S	504	QA	ZG	0.00	555.00	0.38	555.00
5003	-1618	-1619	S	504	QA	ZG	0.33	377.00	0.38	377.00
5003	-1620	-1621	S	504	QA	ZG	0.00	377.00	0.38	377.00
5003	-1622	-1623	S	504	QA	ZG	0.00	377.00	0.38	377.00
5003	-1623	-1624	S	504	QA	ZG	0.03	555.00	0.38	555.00
5003	511	-1625	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1626	-1627	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1628	-1629	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	-1630	-1631	S	504	QA	ZG	0.00	555.00	0.40	555.00
5003	512	-1632	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1633	-1634	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1635	-1636	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1637	-1638	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	-1639	513	S	504	QA	ZG	0.00	555.00	0.36	555.00
5003	514	515	S	507	QA	ZG	0.00	555.00	3.25	555.00
5003	-1640	-1641	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1642	-1643	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1644	-1645	S	507	QA	ZG	0.00	555.00	0.36	555.00



# Relazione di calcolo

5003	-1645	-1646	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1646	-1647	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1647	516	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	516	-1648	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1648	-1649	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1649	-1650	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1650	-1651	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1651	-1652	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1652	-1653	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1653	-1654	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1654	-1655	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1655	517	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	517	-1656	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1656	-1657	S	507	QA	ZG	0.00	555.00	0.29	555.00
5003	-1656	-1657	S	507	QA	ZG	0.29	377.00	0.36	377.00	5003	-1657	-1658	S	507	QA	ZG	0.00	377.00	0.36	377.00
5003	-1658	-1659	S	507	QA	ZG	0.00	377.00	0.36	377.00	5003	-1659	-1660	S	507	QA	ZG	0.00	377.00	0.36	377.00
5003	-1660	-1661	S	507	QA	ZG	0.00	377.00	0.36	377.00	5003	-1661	-1662	S	507	QA	ZG	0.00	377.00	0.06	377.00
5003	-1661	-1662	S	507	QA	ZG	0.06	555.00	0.36	555.00	5003	-1662	518	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	518	-1663	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1663	-1664	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1664	-1665	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1665	-1666	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1666	-1667	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1667	-1668	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1668	-1669	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1669	-1670	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1670	519	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	519	-1671	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1671	-1672	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1672	-1673	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1673	-1674	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1674	-1675	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1675	-1676	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1676	-1677	S	507	QA	ZG	0.00	555.00	0.36	555.00
5003	-1677	-1678	S	507	QA	ZG	0.00	555.00	0.36	555.00	5003	-1678	520	S	507	QA	ZG	0.00	555.00	0.36	555.00
5007	525	526	S	504	QA	ZG	0.00	555.00	3.25	555.00	5007	525	526	S	505	QA	ZG	0.00	517.00	3.25	517.00
5007	526	527	S	504	QA	ZG	0.00	555.00	3.25	555.00	5007	526	527	S	505	QA	ZG	0.00	517.00	3.25	517.00
5007	527	589	S	504	QA	ZG	0.00	555.00	3.20	555.00	5007	527	589	S	505	QA	ZG	0.00	517.00	3.20	517.00
5007	589	590	S	504	QA	ZG	0.00	555.00	0.70	555.00	5007	591	592	S	504	QA	ZG	0.00	555.00	0.72	555.00
5007	592	528	S	502	QA	ZG	0.00	517.00	3.18	517.00	5007	592	528	S	504	QA	ZG	0.00	555.00	3.18	555.00
5007	528	529	S	502	QA	ZG	0.00	517.00	3.25	517.00	5007	528	529	S	504	QA	ZG	0.00	555.00	3.25	555.00
5007	529	530	S	503	QA	ZG	0.00	517.00	3.25	517.00	5007	529	530	S	507	QA	ZG	0.00	555.00	3.25	555.00
5007	530	531	S	503	QA	ZG	0.00	517.00	3.25	517.00	5007	530	531	S	507	QA	ZG	0.00	555.00	3.25	555.00
5007	531	532	S	503	QA	ZG	0.00	517.00	3.25	517.00	5007	531	532	S	507	QA	ZG	0.00	555.00	3.25	555.00
5007	532	593	S	503	QA	ZG	0.00	517.00	3.25	517.00	5007	532	593	S	507	QA	ZG	0.00	555.00	3.25	555.00
5007	593	594	S	507	QA	ZG	0.00	555.00	0.65	555.00	5007	595	596	S	507	QA	ZG	0.00	555.00	0.67	555.00
5007	596	533	S	506	QA	ZG	0.00	517.00	3.23	517.00	5007	596	533	S	507	QA	ZG	0.00	555.00	3.23	555.00
5007	533	534	S	506	QA	ZG	0.00	517.00	3.23	517.00	5007	533	534	S	507	QA	ZG	0.00	555.00	3.23	555.00
5009	541	542	S	505	QA	ZG	0.00	517.00	3.25	517.00	5009	542	543	S	505	QA	ZG	0.00	517.00	3.25	517.00
5009	543	544	S	505	QA	ZG	0.00	517.00	3.20	517.00	5009	545	546	S	502	QA	ZG	0.00	517.00	3.18	517.00
5009	546	547	S	502	QA	ZG	0.00	517.00	3.25	517.00	5009	547	548	S	503	QA	ZG	0.00	517.00	3.25	517.00
5009	548	549	S	503	QA	ZG	0.00	517.00	3.25	517.00	5009	549	550	S	503	QA	ZG	0.00	517.00	3.25	517.00
5009	550	551	S	503	QA	ZG	0.00	517.00	3.25	517.00	5009	552	553	S	506	QA	ZG	0.00	517.00	3.23	517.00
5009	553	554	S	506	QA	ZG	0.00	517.00	3.23	517.00	7003	707	708	S	702	QA	ZG	0.00	555.00	3.25	555.00
7003	708	-2368	S	702	QA	ZG	0.00	555.00	0.36	555.00	7003	-2368	-2369	S	702	QA	ZG	0.00	555.00	0.36	555.00
7003	-2369	-2370	S	702	QA	ZG	0.00	555.00	0.36	555.00	7003	-2370	-2371	S	702	QA	ZG	0.00	555.00	0.36	555.00
7003	-2371	-2372	S	702	QA	ZG	0.00	555.00	0.36	555.00	7003	-2372	-2373	S	702	QA	ZG	0.00	555.00	0.36	555.00
7003	-2373	-2374	S	702	QA	ZG	0.00	555.00	0.36	555.00	7003	-2374	-2375	S	702	QA	ZG	0.00	555.00	0.36	555.00
7003	-2375	709	S	702	QA	ZG	0.00	555.00	0.36	555.00	7003	709	-2376	S	702	QA	ZG	0.00	555.00	0.40	555.00
7003	-2376	-2377	S	702	QA	ZG	0.00	555.00	0.40	555.00	7003	-2377	-2378	S	702	QA	ZG	0.00	555.00	0.40	555.00
7003	-2378	-2379	S	702	QA	ZG	0.00	555.00	0.40	555.00	7003	-2379	-2380	S	702	QA	ZG	0.00	555.00	0.40	555.00
7003	-2380	-2381	S	702	QA	ZG	0.00	555.00	0.40	555.00	7003	-2381	-2382	S	702	QA	ZG	0.00	555.00	0.40	555.00
7003	-2382	710	S	702	QA	ZG	0.00	555.00	0.40	555.00	7003	710	-2383	S	702	QA	ZG	0.00	555.00	0.38	555.00
7003	-2383	-2384	S	702	QA	ZG	0.00	555.00	0.33	555.00	7003	-2383	-2384	S	702	QA	ZG	0.33	377.00	0.38	377.00
7003	-2384	-2385	S	702	QA	ZG	0.00	377.00	0.38	377.00	7003	-2385	-2386	S	702	QA	ZG	0.00	377.00	0.38	377.00
7003	-2386	-2387	S	702	QA	ZG	0.00	377.00	0.38	377.00	7003	-2387	-2388	S	702	QA	ZG	0.00	377.00	0.38	377.00
7003	-2388	-2389	S	702	QA	ZG	0.00	377.00	0.03	377.00	7003	-2388	-2389	S	702	QA	ZG	0.03	555.00	0.38	555.00
7003	-2389	711	S	702	QA	ZG	0.00	555.00	0.38	555.00	7003	711	-2390	S	702	QA	ZG	0.00	555.00	0.40	555.00



# Relazione di calcolo

7003	-2390	-2391	S	702	QA	ZG	0.00	555.00	0.40	555.00	7003	-2391	-2392	S	702	QA	ZG	0.00	555.00	0.40	555.00
7003	-2392	-2393	S	702	QA	ZG	0.00	555.00	0.40	555.00	7003	-2393	-2394	S	702	QA	ZG	0.00	555.00	0.40	555.00
7003	-2394	-2395	S	702	QA	ZG	0.00	555.00	0.40	555.00	7003	-2395	-2396	S	702	QA	ZG	0.00	555.00	0.40	555.00
7003	-2396	712	S	702	QA	ZG	0.00	555.00	0.40	555.00	7003	712	-2397	S	702	QA	ZG	0.00	555.00	0.36	555.00
7003	-2397	-2398	S	702	QA	ZG	0.00	555.00	0.36	555.00	7003	-2398	-2399	S	702	QA	ZG	0.00	555.00	0.36	555.00
7003	-2399	-2400	S	702	QA	ZG	0.00	555.00	0.36	555.00	7003	-2400	-2401	S	702	QA	ZG	0.00	555.00	0.36	555.00
7003	-2401	-2402	S	702	QA	ZG	0.00	555.00	0.36	555.00	7003	-2402	-2403	S	702	QA	ZG	0.00	555.00	0.36	555.00
7003	-2403	-2404	S	702	QA	ZG	0.00	555.00	0.36	555.00	7003	-2404	713	S	702	QA	ZG	0.00	555.00	0.36	555.00
7003	713	714	S	706	QA	ZG	0.00	555.00	3.25	555.00	7003	714	715	S	706	QA	ZG	0.00	555.00	3.25	555.00
7003	715	-2405	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2405	-2406	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2406	-2407	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2407	-2408	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2408	-2409	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2409	-2410	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2410	-2411	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2411	-2412	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2412	716	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	716	-2413	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2413	-2414	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2414	-2415	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2415	-2416	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2416	-2417	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2417	-2418	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2418	-2419	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2419	-2420	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2420	717	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	717	-2421	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2421	-2422	S	706	QA	ZG	0.00	555.00	0.29	555.00
7003	-2421	-2422	S	706	QA	ZG	0.29	377.00	0.36	377.00	7003	-2422	-2423	S	706	QA	ZG	0.00	377.00	0.36	377.00
7003	-2423	-2424	S	706	QA	ZG	0.00	377.00	0.36	377.00	7003	-2424	-2425	S	706	QA	ZG	0.00	377.00	0.36	377.00
7003	-2425	-2426	S	706	QA	ZG	0.00	377.00	0.36	377.00	7003	-2426	-2427	S	706	QA	ZG	0.00	377.00	0.06	377.00
7003	-2426	-2427	S	706	QA	ZG	0.06	555.00	0.36	555.00	7003	-2427	718	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	718	-2428	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2428	-2429	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2429	-2430	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2430	-2431	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2431	-2432	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2432	-2433	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2433	-2434	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2434	-2435	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2435	719	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	719	-2436	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2436	-2437	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2437	-2438	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2438	-2439	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2439	-2440	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2440	-2441	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2441	-2442	S	706	QA	ZG	0.00	555.00	0.36	555.00
7003	-2442	-2443	S	706	QA	ZG	0.00	555.00	0.36	555.00	7003	-2443	720	S	706	QA	ZG	0.00	555.00	0.36	555.00
7007	725	726	S	702	QA	ZG	0.00	555.00	3.25	555.00	7007	725	726	S	704	QA	ZG	0.00	517.00	3.25	517.00
7007	726	727	S	702	QA	ZG	0.00	555.00	3.25	555.00	7007	726	727	S	704	QA	ZG	0.00	517.00	3.25	517.00
7007	727	789	S	702	QA	ZG	0.00	555.00	3.20	555.00	7007	727	789	S	704	QA	ZG	0.00	517.00	3.20	517.00
7007	789	790	S	702	QA	ZG	0.00	555.00	0.70	555.00	7007	791	792	S	702	QA	ZG	0.00	555.00	0.72	555.00
7007	792	728	S	702	QA	ZG	0.00	555.00	3.18	555.00	7007	792	728	S	703	QA	ZG	0.00	517.00	3.18	517.00
7007	728	729	S	702	QA	ZG	0.00	555.00	3.25	555.00	7007	728	729	S	703	QA	ZG	0.00	517.00	3.25	517.00
7007	729	730	S	706	QA	ZG	0.00	555.00	3.25	555.00	7007	729	730	S	707	QA	ZG	0.00	517.00	3.25	517.00
7007	730	731	S	706	QA	ZG	0.00	555.00	3.25	555.00	7007	730	731	S	707	QA	ZG	0.00	517.00	3.25	517.00
7007	731	732	S	706	QA	ZG	0.00	555.00	3.25	555.00	7007	731	732	S	707	QA	ZG	0.00	517.00	3.25	517.00
7007	732	793	S	706	QA	ZG	0.00	555.00	3.25	555.00	7007	732	793	S	707	QA	ZG	0.00	517.00	3.25	517.00
7007	793	794	S	706	QA	ZG	0.00	555.00	0.65	555.00	7007	795	796	S	706	QA	ZG	0.00	555.00	0.67	555.00
7007	796	733	S	705	QA	ZG	0.00	517.00	3.23	517.00	7007	796	733	S	706	QA	ZG	0.00	555.00	3.23	555.00
7007	733	734	S	705	QA	ZG	0.00	517.00	3.23	517.00	7007	733	734	S	706	QA	ZG	0.00	555.00	3.23	555.00
7009	741	742	S	704	QA	ZG	0.00	517.00	3.25	517.00	7009	742	743	S	704	QA	ZG	0.00	517.00	3.25	517.00
7009	743	744	S	704	QA	ZG	0.00	517.00	3.20	517.00	7009	745	746	S	703	QA	ZG	0.00	517.00	3.18	517.00
7009	746	747	S	703	QA	ZG	0.00	517.00	3.25	517.00	7009	747	748	S	707	QA	ZG	0.00	517.00	3.25	517.00
7009	748	749	S	707	QA	ZG	0.00	517.00	3.25	517.00	7009	749	750	S	707	QA	ZG	0.00	517.00	3.25	517.00
7009	750	751	S	707	QA	ZG	0.00	517.00	3.25	517.00	7009	752	753	S	705	QA	ZG	0.00	517.00	3.23	517.00
7009	753	754	S	705	QA	ZG	0.00	517.00	3.23	517.00	9003	907	908	S	904	QA	ZG	0.00	555.00	3.25	555.00
9003	908	-3133	S	904	QA	ZG	0.00	555.00	0.36	555.00	9003	-3133	-3134	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3134	-3135	S	904	QA	ZG	0.00	555.00	0.36	555.00	9003	-3135	-3136	S	904	QA	ZG	0.00	555.00	0.36	555.00



# Relazione di calcolo

9003	-3136	-3137	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3138	-3139	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3140	909	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3141	-3142	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3143	-3144	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3145	-3146	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3147	910	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3148	-3149	S	904	QA	ZG	0.00	555.00	0.33	555.00
9003	-3149	-3150	S	904	QA	ZG	0.00	377.00	0.38	377.00
9003	-3151	-3152	S	904	QA	ZG	0.00	377.00	0.38	377.00
9003	-3153	-3154	S	904	QA	ZG	0.00	377.00	0.03	377.00
9003	-3154	911	S	904	QA	ZG	0.00	555.00	0.38	555.00
9003	-3155	-3156	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3157	-3158	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3159	-3160	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3161	912	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3162	-3163	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3164	-3165	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3166	-3167	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3168	-3169	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	913	914	S	907	QA	ZG	0.00	555.00	3.25	555.00
9003	915	-3170	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3171	-3172	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3173	-3174	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3175	-3176	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3177	916	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3178	-3179	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3180	-3181	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3182	-3183	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3184	-3185	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	917	-3186	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3186	-3187	S	907	QA	ZG	0.29	377.00	0.36	377.00
9003	-3188	-3189	S	907	QA	ZG	0.00	377.00	0.36	377.00
9003	-3190	-3191	S	907	QA	ZG	0.00	377.00	0.36	377.00
9003	-3191	-3192	S	907	QA	ZG	0.06	555.00	0.36	555.00
9003	918	-3193	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3194	-3195	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3196	-3197	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3198	-3199	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3200	919	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3201	-3202	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3203	-3204	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3205	-3206	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3207	-3208	S	907	QA	ZG	0.00	555.00	0.36	555.00
9007	925	926	S	904	QA	ZG	0.00	555.00	3.25	555.00
9007	926	927	S	904	QA	ZG	0.00	555.00	3.25	555.00
9007	927	989	S	904	QA	ZG	0.00	555.00	3.20	555.00
9007	989	990	S	904	QA	ZG	0.00	555.00	0.70	555.00
9007	992	928	S	902	QA	ZG	0.00	517.00	3.18	517.00
9007	928	929	S	902	QA	ZG	0.00	517.00	3.25	517.00
9007	929	930	S	903	QA	ZG	0.00	517.00	3.25	517.00
9007	930	931	S	903	QA	ZG	0.00	517.00	3.25	517.00
9007	931	932	S	903	QA	ZG	0.00	517.00	3.25	517.00

9003	-3137	-3138	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3139	-3140	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	909	-3141	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3142	-3143	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3144	-3145	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3146	-3147	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	910	-3148	S	904	QA	ZG	0.00	555.00	0.38	555.00
9003	-3148	-3149	S	904	QA	ZG	0.33	377.00	0.38	377.00
9003	-3150	-3151	S	904	QA	ZG	0.00	377.00	0.38	377.00
9003	-3152	-3153	S	904	QA	ZG	0.00	377.00	0.38	377.00
9003	-3153	-3154	S	904	QA	ZG	0.03	555.00	0.38	555.00
9003	911	-3155	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3156	-3157	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3158	-3159	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	-3160	-3161	S	904	QA	ZG	0.00	555.00	0.40	555.00
9003	912	-3162	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3163	-3164	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3165	-3166	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3167	-3168	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	-3169	913	S	904	QA	ZG	0.00	555.00	0.36	555.00
9003	914	915	S	907	QA	ZG	0.00	555.00	3.25	555.00
9003	-3170	-3171	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3172	-3173	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3174	-3175	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3176	-3177	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	916	-3178	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3179	-3180	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3181	-3182	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3183	-3184	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3185	917	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3186	-3187	S	907	QA	ZG	0.00	555.00	0.29	555.00
9003	-3187	-3188	S	907	QA	ZG	0.00	377.00	0.36	377.00
9003	-3189	-3190	S	907	QA	ZG	0.00	377.00	0.36	377.00
9003	-3191	-3192	S	907	QA	ZG	0.00	377.00	0.06	377.00
9003	-3192	918	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3193	-3194	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3195	-3196	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3197	-3198	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3199	-3200	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	919	-3201	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3202	-3203	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3204	-3205	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3206	-3207	S	907	QA	ZG	0.00	555.00	0.36	555.00
9003	-3208	920	S	907	QA	ZG	0.00	555.00	0.36	555.00
9007	925	926	S	905	QA	ZG	0.00	517.00	3.25	517.00
9007	926	927	S	905	QA	ZG	0.00	517.00	3.25	517.00
9007	927	989	S	905	QA	ZG	0.00	517.00	3.20	517.00
9007	991	992	S	904	QA	ZG	0.00	555.00	0.72	555.00
9007	992	928	S	904	QA	ZG	0.00	555.00	3.18	555.00
9007	928	929	S	904	QA	ZG	0.00	555.00	3.25	555.00
9007	929	930	S	907	QA	ZG	0.00	555.00	3.25	555.00
9007	930	931	S	907	QA	ZG	0.00	555.00	3.25	555.00
9007	931	932	S	907	QA	ZG	0.00	555.00	3.25	555.00



# Relazione di calcolo

9007	932	993	S	903	QA	ZG	0.00	517.00	3.25	517.00
9007	993	994	S	907	QA	ZG	0.00	555.00	0.65	555.00
9007	996	933	S	906	QA	ZG	0.00	517.00	3.23	517.00
9007	933	934	S	906	QA	ZG	0.00	517.00	3.23	517.00
9009	941	942	S	905	QA	ZG	0.00	517.00	3.25	517.00
9009	943	944	S	905	QA	ZG	0.00	517.00	3.20	517.00
9009	946	947	S	902	QA	ZG	0.00	517.00	3.25	517.00
9009	948	949	S	903	QA	ZG	0.00	517.00	3.25	517.00
9009	950	951	S	903	QA	ZG	0.00	517.00	3.25	517.00
9009	953	954	S	906	QA	ZG	0.00	517.00	3.23	517.00
11003	1108	-3898	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3899	-3900	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3901	-3902	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3903	-3904	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3905	1109	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3906	-3907	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3908	-3909	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3910	-3911	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3912	1110	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3913	-3914	S	1105	QA	ZG	0.00	555.00	0.33	555.00
11003	-3914	-3915	S	1105	QA	ZG	0.00	377.00	0.38	377.00
11003	-3916	-3917	S	1105	QA	ZG	0.00	377.00	0.38	377.00
11003	-3918	-3919	S	1105	QA	ZG	0.00	377.00	0.03	377.00
11003	-3919	1111	S	1105	QA	ZG	0.00	555.00	0.38	555.00
11003	-3920	-3921	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3922	-3923	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3924	-3925	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3926	1112	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3927	-3928	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3929	-3930	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3931	-3932	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3933	-3934	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	1113	1114	S	1108	QA	ZG	0.00	555.00	3.25	555.00
11003	1115	-3935	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3936	-3937	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3938	-3939	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3940	-3941	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3942	1116	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3943	-3944	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3945	-3946	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3947	-3948	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3949	-3950	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	1117	-3951	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3951	-3952	S	1108	QA	ZG	0.29	377.00	0.36	377.00
11003	-3953	-3954	S	1108	QA	ZG	0.00	377.00	0.36	377.00
11003	-3955	-3956	S	1108	QA	ZG	0.00	377.00	0.36	377.00
11003	-3956	-3957	S	1108	QA	ZG	0.06	555.00	0.36	555.00
11003	1118	-3958	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3959	-3960	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3961	-3962	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3963	-3964	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3965	1119	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3966	-3967	S	1108	QA	ZG	0.00	555.00	0.36	555.00

9007	932	993	S	907	QA	ZG	0.00	555.00	3.25	555.00
9007	995	996	S	907	QA	ZG	0.00	555.00	0.67	555.00
9007	996	933	S	907	QA	ZG	0.00	555.00	3.23	555.00
9007	933	934	S	907	QA	ZG	0.00	555.00	3.23	555.00
9009	942	943	S	905	QA	ZG	0.00	517.00	3.25	517.00
9009	945	946	S	902	QA	ZG	0.00	517.00	3.18	517.00
9009	947	948	S	903	QA	ZG	0.00	517.00	3.25	517.00
9009	949	950	S	903	QA	ZG	0.00	517.00	3.25	517.00
9009	952	953	S	906	QA	ZG	0.00	517.00	3.23	517.00
11003	1107	1108	S	1105	QA	ZG	0.00	555.00	3.25	555.00
11003	-3898	-3899	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3900	-3901	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3902	-3903	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3904	-3905	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	1109	-3906	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3907	-3908	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3909	-3910	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3911	-3912	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	1110	-3913	S	1105	QA	ZG	0.00	555.00	0.38	555.00
11003	-3913	-3914	S	1105	QA	ZG	0.33	377.00	0.38	377.00
11003	-3915	-3916	S	1105	QA	ZG	0.00	377.00	0.38	377.00
11003	-3917	-3918	S	1105	QA	ZG	0.00	377.00	0.38	377.00
11003	-3918	-3919	S	1105	QA	ZG	0.03	555.00	0.38	555.00
11003	1111	-3920	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3921	-3922	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3923	-3924	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	-3925	-3926	S	1105	QA	ZG	0.00	555.00	0.40	555.00
11003	1112	-3927	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3928	-3929	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3930	-3931	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3932	-3933	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	-3934	1113	S	1105	QA	ZG	0.00	555.00	0.36	555.00
11003	1114	1115	S	1108	QA	ZG	0.00	555.00	3.25	555.00
11003	-3935	-3936	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3937	-3938	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3939	-3940	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3941	-3942	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	1116	-3943	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3944	-3945	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3946	-3947	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3948	-3949	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3950	1117	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3951	-3952	S	1108	QA	ZG	0.00	555.00	0.29	555.00
11003	-3952	-3953	S	1108	QA	ZG	0.00	377.00	0.36	377.00
11003	-3954	-3955	S	1108	QA	ZG	0.00	377.00	0.36	377.00
11003	-3956	-3957	S	1108	QA	ZG	0.00	377.00	0.06	377.00
11003	-3957	1118	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3958	-3959	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3960	-3961	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3962	-3963	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3964	-3965	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	1119	-3966	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3967	-3968	S	1108	QA	ZG	0.00	555.00	0.36	555.00



# Relazione di calcolo

11003	-3968	-3969	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3970	-3971	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3972	-3973	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11007	1125	1126	S	1105	QA	ZG	0.00	555.00	3.25	555.00
11007	1126	1127	S	1105	QA	ZG	0.00	555.00	3.25	555.00
11007	1127	1189	S	1105	QA	ZG	0.00	555.00	3.20	555.00
11007	1189	1190	S	1105	QA	ZG	0.00	555.00	0.70	555.00
11007	1192	1128	S	1103	QA	ZG	0.00	517.00	3.18	517.00
11007	1128	1129	S	1103	QA	ZG	0.00	517.00	3.25	517.00
11007	1129	1130	S	1104	QA	ZG	0.00	517.00	3.25	517.00
11007	1130	1131	S	1104	QA	ZG	0.00	517.00	3.25	517.00
11007	1131	1132	S	1104	QA	ZG	0.00	517.00	3.25	517.00
11007	1132	1193	S	1104	QA	ZG	0.00	517.00	3.25	517.00
11007	1193	1194	S	1108	QA	ZG	0.00	555.00	0.65	555.00
11007	1196	1133	S	1107	QA	ZG	0.00	517.00	3.23	517.00
11007	1133	1134	S	1107	QA	ZG	0.00	517.00	3.23	517.00
11009	1141	1142	S	1106	QA	ZG	0.00	517.00	3.25	517.00
11009	1143	1144	S	1106	QA	ZG	0.00	517.00	3.20	517.00
11009	1146	1147	S	1103	QA	ZG	0.00	517.00	3.25	517.00
11009	1148	1149	S	1104	QA	ZG	0.00	517.00	3.25	517.00
11009	1150	1151	S	1104	QA	ZG	0.00	517.00	3.25	517.00
11009	1153	1154	S	1107	QA	ZG	0.00	517.00	3.23	517.00
13003	1308	-4663	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4664	-4665	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4666	-4667	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4668	-4669	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4670	1309	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4671	-4672	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4673	-4674	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4675	-4676	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4677	1310	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4678	-4679	S	1305	QA	ZG	0.00	555.00	0.33	555.00
13003	-4679	-4680	S	1305	QA	ZG	0.00	377.00	0.38	377.00
13003	-4681	-4682	S	1305	QA	ZG	0.00	377.00	0.38	377.00
13003	-4683	-4684	S	1305	QA	ZG	0.00	377.00	0.03	377.00
13003	-4684	1311	S	1305	QA	ZG	0.00	555.00	0.38	555.00
13003	-4685	-4686	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4687	-4688	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4689	-4690	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4691	1312	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4692	-4693	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4694	-4695	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4696	-4697	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4698	-4699	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	1313	1314	S	1308	QA	ZG	0.00	555.00	3.25	555.00
13003	1315	-4700	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4701	-4702	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4703	-4704	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4705	-4706	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4707	1316	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4708	-4709	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4710	-4711	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4712	-4713	S	1308	QA	ZG	0.00	555.00	0.36	555.00

11003	-3969	-3970	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3971	-3972	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11003	-3973	1120	S	1108	QA	ZG	0.00	555.00	0.36	555.00
11007	1125	1126	S	1106	QA	ZG	0.00	517.00	3.25	517.00
11007	1126	1127	S	1106	QA	ZG	0.00	517.00	3.25	517.00
11007	1127	1189	S	1106	QA	ZG	0.00	517.00	3.20	517.00
11007	1191	1192	S	1105	QA	ZG	0.00	555.00	0.72	555.00
11007	1192	1128	S	1105	QA	ZG	0.00	555.00	3.18	555.00
11007	1128	1129	S	1105	QA	ZG	0.00	555.00	3.25	555.00
11007	1129	1130	S	1108	QA	ZG	0.00	555.00	3.25	555.00
11007	1130	1131	S	1108	QA	ZG	0.00	555.00	3.25	555.00
11007	1131	1132	S	1108	QA	ZG	0.00	555.00	3.25	555.00
11007	1132	1193	S	1108	QA	ZG	0.00	555.00	3.25	555.00
11007	1195	1196	S	1108	QA	ZG	0.00	555.00	0.67	555.00
11007	1196	1133	S	1108	QA	ZG	0.00	555.00	3.23	555.00
11007	1133	1134	S	1108	QA	ZG	0.00	555.00	3.23	555.00
11009	1142	1143	S	1106	QA	ZG	0.00	517.00	3.25	517.00
11009	1145	1146	S	1103	QA	ZG	0.00	517.00	3.18	517.00
11009	1147	1148	S	1104	QA	ZG	0.00	517.00	3.25	517.00
11009	1149	1150	S	1104	QA	ZG	0.00	517.00	3.25	517.00
11009	1152	1153	S	1107	QA	ZG	0.00	517.00	3.23	517.00
13003	1307	1308	S	1305	QA	ZG	0.00	555.00	3.25	555.00
13003	-4663	-4664	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4665	-4666	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4667	-4668	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4669	-4670	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	1309	-4671	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4672	-4673	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4674	-4675	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4676	-4677	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	1310	-4678	S	1305	QA	ZG	0.00	555.00	0.38	555.00
13003	-4678	-4679	S	1305	QA	ZG	0.33	377.00	0.38	377.00
13003	-4680	-4681	S	1305	QA	ZG	0.00	377.00	0.38	377.00
13003	-4682	-4683	S	1305	QA	ZG	0.00	377.00	0.38	377.00
13003	-4683	-4684	S	1305	QA	ZG	0.03	555.00	0.38	555.00
13003	1311	-4685	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4686	-4687	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4688	-4689	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	-4690	-4691	S	1305	QA	ZG	0.00	555.00	0.40	555.00
13003	1312	-4692	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4693	-4694	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4695	-4696	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4697	-4698	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	-4699	1313	S	1305	QA	ZG	0.00	555.00	0.36	555.00
13003	1314	1315	S	1308	QA	ZG	0.00	555.00	3.25	555.00
13003	-4700	-4701	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4702	-4703	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4704	-4705	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4706	-4707	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	1316	-4708	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4709	-4710	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4711	-4712	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4713	-4714	S	1308	QA	ZG	0.00	555.00	0.36	555.00



# Relazione di calcolo

13003	-4714	-4715	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	1317	-4716	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4716	-4717	S	1308	QA	ZG	0.29	377.00	0.36	377.00
13003	-4718	-4719	S	1308	QA	ZG	0.00	377.00	0.36	377.00
13003	-4720	-4721	S	1308	QA	ZG	0.00	377.00	0.36	377.00
13003	-4721	-4722	S	1308	QA	ZG	0.06	555.00	0.36	555.00
13003	1318	-4723	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4724	-4725	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4726	-4727	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4728	-4729	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4730	1319	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4731	-4732	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4733	-4734	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4735	-4736	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4737	-4738	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13007	1325	1326	S	1305	QA	ZG	0.00	555.00	3.25	555.00
13007	1326	1327	S	1305	QA	ZG	0.00	555.00	3.25	555.00
13007	1327	1389	S	1305	QA	ZG	0.00	555.00	3.20	555.00
13007	1389	1390	S	1305	QA	ZG	0.00	555.00	0.70	555.00
13007	1392	1328	S	1303	QA	ZG	0.00	517.00	3.18	517.00
13007	1328	1329	S	1303	QA	ZG	0.00	517.00	3.25	517.00
13007	1329	1330	S	1304	QA	ZG	0.00	517.00	3.25	517.00
13007	1330	1331	S	1304	QA	ZG	0.00	517.00	3.25	517.00
13007	1331	1332	S	1304	QA	ZG	0.00	517.00	3.25	517.00
13007	1332	1393	S	1304	QA	ZG	0.00	517.00	3.25	517.00
13007	1393	1394	S	1308	QA	ZG	0.00	555.00	0.65	555.00
13007	1396	1333	S	1307	QA	ZG	0.00	517.00	3.23	517.00
13007	1333	1334	S	1307	QA	ZG	0.00	517.00	3.23	517.00
13009	1341	1342	S	1306	QA	ZG	0.00	517.00	3.25	517.00
13009	1343	1344	S	1306	QA	ZG	0.00	517.00	3.20	517.00
13009	1346	1347	S	1303	QA	ZG	0.00	517.00	3.25	517.00
13009	1348	1349	S	1304	QA	ZG	0.00	517.00	3.25	517.00
13009	1350	1351	S	1304	QA	ZG	0.00	517.00	3.25	517.00
13009	1353	1354	S	1307	QA	ZG	0.00	517.00	3.23	517.00
15003	1508	-5428	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5429	-5430	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5431	-5432	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5433	-5434	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5435	1509	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5436	-5437	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5438	-5439	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5440	-5441	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5442	1510	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5443	-5444	S	1505	QA	ZG	0.00	555.00	0.33	555.00
15003	-5444	-5445	S	1505	QA	ZG	0.00	377.00	0.38	377.00
15003	-5446	-5447	S	1505	QA	ZG	0.00	377.00	0.38	377.00
15003	-5448	-5449	S	1505	QA	ZG	0.00	377.00	0.03	377.00
15003	-5449	1511	S	1505	QA	ZG	0.00	555.00	0.38	555.00
15003	-5450	-5451	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5452	-5453	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5454	-5455	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5456	1512	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5457	-5458	S	1505	QA	ZG	0.00	555.00	0.36	555.00

13003	-4715	1317	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4716	-4717	S	1308	QA	ZG	0.00	555.00	0.29	555.00
13003	-4717	-4718	S	1308	QA	ZG	0.00	377.00	0.36	377.00
13003	-4719	-4720	S	1308	QA	ZG	0.00	377.00	0.36	377.00
13003	-4721	-4722	S	1308	QA	ZG	0.00	377.00	0.06	377.00
13003	-4722	1318	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4723	-4724	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4725	-4726	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4727	-4728	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4729	-4730	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	1319	-4731	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4732	-4733	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4734	-4735	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4736	-4737	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13003	-4738	1320	S	1308	QA	ZG	0.00	555.00	0.36	555.00
13007	1325	1326	S	1306	QA	ZG	0.00	517.00	3.25	517.00
13007	1326	1327	S	1306	QA	ZG	0.00	517.00	3.25	517.00
13007	1327	1389	S	1306	QA	ZG	0.00	517.00	3.20	517.00
13007	1391	1392	S	1305	QA	ZG	0.00	555.00	0.72	555.00
13007	1392	1328	S	1305	QA	ZG	0.00	555.00	3.18	555.00
13007	1328	1329	S	1305	QA	ZG	0.00	555.00	3.25	555.00
13007	1329	1330	S	1308	QA	ZG	0.00	555.00	3.25	555.00
13007	1330	1331	S	1308	QA	ZG	0.00	555.00	3.25	555.00
13007	1331	1332	S	1308	QA	ZG	0.00	555.00	3.25	555.00
13007	1332	1393	S	1308	QA	ZG	0.00	555.00	3.25	555.00
13007	1395	1396	S	1308	QA	ZG	0.00	555.00	0.67	555.00
13007	1396	1333	S	1308	QA	ZG	0.00	555.00	3.23	555.00
13007	1333	1334	S	1308	QA	ZG	0.00	555.00	3.23	555.00
13009	1342	1343	S	1306	QA	ZG	0.00	517.00	3.25	517.00
13009	1345	1346	S	1303	QA	ZG	0.00	517.00	3.18	517.00
13009	1347	1348	S	1304	QA	ZG	0.00	517.00	3.25	517.00
13009	1349	1350	S	1304	QA	ZG	0.00	517.00	3.25	517.00
13009	1352	1353	S	1307	QA	ZG	0.00	517.00	3.23	517.00
15003	1507	1508	S	1505	QA	ZG	0.00	555.00	3.25	555.00
15003	-5428	-5429	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5430	-5431	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5432	-5433	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5434	-5435	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	1509	-5436	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5437	-5438	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5439	-5440	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5441	-5442	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	1510	-5443	S	1505	QA	ZG	0.00	555.00	0.38	555.00
15003	-5443	-5444	S	1505	QA	ZG	0.33	377.00	0.38	377.00
15003	-5445	-5446	S	1505	QA	ZG	0.00	377.00	0.38	377.00
15003	-5447	-5448	S	1505	QA	ZG	0.00	377.00	0.38	377.00
15003	-5448	-5449	S	1505	QA	ZG	0.03	555.00	0.38	555.00
15003	1511	-5450	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5451	-5452	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5453	-5454	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	-5455	-5456	S	1505	QA	ZG	0.00	555.00	0.40	555.00
15003	1512	-5457	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5458	-5459	S	1505	QA	ZG	0.00	555.00	0.36	555.00



# Relazione di calcolo

15003	-5459	-5460	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5461	-5462	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5463	-5464	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	1513	1514	S	1508	QA	ZG	0.00	555.00	3.25	555.00
15003	1515	-5465	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5466	-5467	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5468	-5469	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5470	-5471	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5472	1516	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5473	-5474	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5475	-5476	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5477	-5478	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5479	-5480	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	1517	-5481	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5481	-5482	S	1508	QA	ZG	0.29	377.00	0.36	377.00
15003	-5483	-5484	S	1508	QA	ZG	0.00	377.00	0.36	377.00
15003	-5485	-5486	S	1508	QA	ZG	0.00	377.00	0.36	377.00
15003	-5486	-5487	S	1508	QA	ZG	0.06	555.00	0.36	555.00
15003	1518	-5488	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5489	-5490	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5491	-5492	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5493	-5494	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5495	1519	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5496	-5497	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5498	-5499	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5500	-5501	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5502	-5503	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15007	1525	1526	S	1505	QA	ZG	0.00	555.00	3.25	555.00
15007	1526	1527	S	1505	QA	ZG	0.00	555.00	3.25	555.00
15007	1527	1589	S	1505	QA	ZG	0.00	555.00	3.20	555.00
15007	1589	1590	S	1505	QA	ZG	0.00	555.00	0.70	555.00
15007	1592	1528	S	1503	QA	ZG	0.00	517.00	3.18	517.00
15007	1528	1529	S	1503	QA	ZG	0.00	517.00	3.25	517.00
15007	1529	1530	S	1504	QA	ZG	0.00	517.00	3.25	517.00
15007	1530	1531	S	1504	QA	ZG	0.00	517.00	3.25	517.00
15007	1531	1532	S	1504	QA	ZG	0.00	517.00	3.25	517.00
15007	1532	1593	S	1504	QA	ZG	0.00	517.00	3.25	517.00
15007	1593	1594	S	1508	QA	ZG	0.00	555.00	0.65	555.00
15007	1596	1533	S	1507	QA	ZG	0.00	517.00	3.23	517.00
15007	1533	1534	S	1507	QA	ZG	0.00	517.00	3.23	517.00
15009	1541	1542	S	1506	QA	ZG	0.00	517.00	3.25	517.00
15009	1543	1544	S	1506	QA	ZG	0.00	517.00	3.20	517.00
15009	1546	1547	S	1503	QA	ZG	0.00	517.00	3.25	517.00
15009	1548	1549	S	1504	QA	ZG	0.00	517.00	3.25	517.00
15009	1550	1551	S	1504	QA	ZG	0.00	517.00	3.25	517.00
15009	1553	1554	S	1507	QA	ZG	0.00	517.00	3.23	517.00
17003	1708	-6194	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6195	-6196	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6197	-6198	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6199	-6200	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6201	1709	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6202	-6203	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6204	-6205	S	1705	QA	ZG	0.00	555.00	0.40	555.00

15003	-5460	-5461	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5462	-5463	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	-5464	1513	S	1505	QA	ZG	0.00	555.00	0.36	555.00
15003	1514	1515	S	1508	QA	ZG	0.00	555.00	3.25	555.00
15003	-5465	-5466	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5467	-5468	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5469	-5470	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5471	-5472	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	1516	-5473	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5474	-5475	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5476	-5477	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5478	-5479	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5480	1517	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5481	-5482	S	1508	QA	ZG	0.00	555.00	0.29	555.00
15003	-5482	-5483	S	1508	QA	ZG	0.00	377.00	0.36	377.00
15003	-5484	-5485	S	1508	QA	ZG	0.00	377.00	0.36	377.00
15003	-5486	-5487	S	1508	QA	ZG	0.00	377.00	0.06	377.00
15003	-5487	1518	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5488	-5489	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5490	-5491	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5492	-5493	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5494	-5495	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	1519	-5496	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5497	-5498	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5499	-5500	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5501	-5502	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15003	-5503	1520	S	1508	QA	ZG	0.00	555.00	0.36	555.00
15007	1525	1526	S	1506	QA	ZG	0.00	517.00	3.25	517.00
15007	1526	1527	S	1506	QA	ZG	0.00	517.00	3.25	517.00
15007	1527	1589	S	1506	QA	ZG	0.00	517.00	3.20	517.00
15007	1591	1592	S	1505	QA	ZG	0.00	555.00	0.72	555.00
15007	1592	1528	S	1505	QA	ZG	0.00	555.00	3.18	555.00
15007	1528	1529	S	1505	QA	ZG	0.00	555.00	3.25	555.00
15007	1529	1530	S	1508	QA	ZG	0.00	555.00	3.25	555.00
15007	1530	1531	S	1508	QA	ZG	0.00	555.00	3.25	555.00
15007	1531	1532	S	1508	QA	ZG	0.00	555.00	3.25	555.00
15007	1532	1593	S	1508	QA	ZG	0.00	555.00	3.25	555.00
15007	1595	1596	S	1508	QA	ZG	0.00	555.00	0.67	555.00
15007	1596	1533	S	1508	QA	ZG	0.00	555.00	3.23	555.00
15007	1533	1534	S	1508	QA	ZG	0.00	555.00	3.23	555.00
15009	1542	1543	S	1506	QA	ZG	0.00	517.00	3.25	517.00
15009	1545	1546	S	1503	QA	ZG	0.00	517.00	3.18	517.00
15009	1547	1548	S	1504	QA	ZG	0.00	517.00	3.25	517.00
15009	1549	1550	S	1504	QA	ZG	0.00	517.00	3.25	517.00
15009	1552	1553	S	1507	QA	ZG	0.00	517.00	3.23	517.00
17003	1707	1708	S	1705	QA	ZG	0.00	555.00	3.25	555.00
17003	-6194	-6195	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6196	-6197	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6198	-6199	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6200	-6201	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	1709	-6202	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6203	-6204	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6205	-6206	S	1705	QA	ZG	0.00	555.00	0.40	555.00



# Relazione di calcolo

17003	-6206	-6207	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6208	1710	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6209	-6210	S	1705	QA	ZG	0.00	555.00	0.33	555.00
17003	-6210	-6211	S	1705	QA	ZG	0.00	377.00	0.38	377.00
17003	-6212	-6213	S	1705	QA	ZG	0.00	377.00	0.38	377.00
17003	-6214	-6215	S	1705	QA	ZG	0.00	377.00	0.03	377.00
17003	-6215	1711	S	1705	QA	ZG	0.00	555.00	0.38	555.00
17003	-6216	-6217	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6218	-6219	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6220	-6221	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6222	1712	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6223	-6224	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6225	-6226	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6227	-6228	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6229	-6230	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	1713	1714	S	1708	QA	ZG	0.00	555.00	3.25	555.00
17003	1715	-6231	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6232	-6233	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6234	-6235	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6236	-6237	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6238	1716	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6239	-6240	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6241	-6242	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6243	-6244	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6245	-6246	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	1717	-6247	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6247	-6248	S	1708	QA	ZG	0.29	377.00	0.36	377.00
17003	-6249	-6250	S	1708	QA	ZG	0.00	377.00	0.36	377.00
17003	-6251	-6252	S	1708	QA	ZG	0.00	377.00	0.36	377.00
17003	-6252	-6253	S	1708	QA	ZG	0.06	555.00	0.36	555.00
17003	1718	-6254	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6255	-6256	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6257	-6258	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6259	-6260	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6261	1719	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6262	-6263	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6264	-6265	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6266	-6267	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6268	-6269	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17007	1725	1726	S	1705	QA	ZG	0.00	555.00	3.25	555.00
17007	1726	1727	S	1705	QA	ZG	0.00	555.00	3.25	555.00
17007	1727	1789	S	1705	QA	ZG	0.00	555.00	3.20	555.00
17007	1789	1790	S	1705	QA	ZG	0.00	555.00	0.70	555.00
17007	1792	1728	S	1703	QA	ZG	0.00	517.00	3.18	517.00
17007	1728	1729	S	1703	QA	ZG	0.00	517.00	3.25	517.00
17007	1729	1730	S	1704	QA	ZG	0.00	517.00	3.25	517.00
17007	1730	1731	S	1704	QA	ZG	0.00	517.00	3.25	517.00
17007	1731	1732	S	1704	QA	ZG	0.00	517.00	3.25	517.00
17007	1732	1793	S	1704	QA	ZG	0.00	517.00	3.25	517.00
17007	1793	1794	S	1708	QA	ZG	0.00	555.00	0.65	555.00
17007	1796	1733	S	1707	QA	ZG	0.00	517.00	3.23	517.00
17007	1733	1734	S	1707	QA	ZG	0.00	517.00	3.23	517.00
17009	1741	1742	S	1706	QA	ZG	0.00	517.00	3.25	517.00

17003	-6207	-6208	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	1710	-6209	S	1705	QA	ZG	0.00	555.00	0.38	555.00
17003	-6209	-6210	S	1705	QA	ZG	0.33	377.00	0.38	377.00
17003	-6211	-6212	S	1705	QA	ZG	0.00	377.00	0.38	377.00
17003	-6213	-6214	S	1705	QA	ZG	0.00	377.00	0.38	377.00
17003	-6214	-6215	S	1705	QA	ZG	0.03	555.00	0.38	555.00
17003	1711	-6216	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6217	-6218	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6219	-6220	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	-6221	-6222	S	1705	QA	ZG	0.00	555.00	0.40	555.00
17003	1712	-6223	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6224	-6225	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6226	-6227	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6228	-6229	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	-6230	1713	S	1705	QA	ZG	0.00	555.00	0.36	555.00
17003	1714	1715	S	1708	QA	ZG	0.00	555.00	3.25	555.00
17003	-6231	-6232	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6233	-6234	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6235	-6236	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6237	-6238	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	1716	-6239	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6240	-6241	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6242	-6243	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6244	-6245	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6246	1717	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6247	-6248	S	1708	QA	ZG	0.00	555.00	0.29	555.00
17003	-6248	-6249	S	1708	QA	ZG	0.00	377.00	0.36	377.00
17003	-6250	-6251	S	1708	QA	ZG	0.00	377.00	0.36	377.00
17003	-6252	-6253	S	1708	QA	ZG	0.00	377.00	0.06	377.00
17003	-6253	1718	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6254	-6255	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6256	-6257	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6258	-6259	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6260	-6261	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	1719	-6262	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6263	-6264	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6265	-6266	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6267	-6268	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17003	-6269	1720	S	1708	QA	ZG	0.00	555.00	0.36	555.00
17007	1725	1726	S	1706	QA	ZG	0.00	517.00	3.25	517.00
17007	1726	1727	S	1706	QA	ZG	0.00	517.00	3.25	517.00
17007	1727	1789	S	1706	QA	ZG	0.00	517.00	3.20	517.00
17007	1791	1792	S	1705	QA	ZG	0.00	555.00	0.72	555.00
17007	1792	1728	S	1705	QA	ZG	0.00	555.00	3.18	555.00
17007	1728	1729	S	1705	QA	ZG	0.00	555.00	3.25	555.00
17007	1729	1730	S	1708	QA	ZG	0.00	555.00	3.25	555.00
17007	1730	1731	S	1708	QA	ZG	0.00	555.00	3.25	555.00
17007	1731	1732	S	1708	QA	ZG	0.00	555.00	3.25	555.00
17007	1732	1793	S	1708	QA	ZG	0.00	555.00	3.25	555.00
17007	1795	1796	S	1708	QA	ZG	0.00	555.00	0.67	555.00
17007	1796	1733	S	1708	QA	ZG	0.00	555.00	3.23	555.00
17007	1733	1734	S	1708	QA	ZG	0.00	555.00	3.23	555.00
17009	1742	1743	S	1706	QA	ZG	0.00	517.00	3.25	517.00



# Relazione di calcolo

17009	1743	1744	S	1706	QA	ZG	0.00	517.00	3.20	517.00
17009	1746	1747	S	1703	QA	ZG	0.00	517.00	3.25	517.00
17009	1748	1749	S	1704	QA	ZG	0.00	517.00	3.25	517.00
17009	1750	1751	S	1704	QA	ZG	0.00	517.00	3.25	517.00
17009	1753	1754	S	1707	QA	ZG	0.00	517.00	3.23	517.00
19003	1908	-6959	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6960	-6961	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6962	-6963	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6964	-6965	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6966	1909	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6967	-6968	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6969	-6970	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6971	-6972	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6973	1910	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6974	-6975	S	1905	QA	ZG	0.00	555.00	0.33	555.00
19003	-6975	-6976	S	1905	QA	ZG	0.00	377.00	0.38	377.00
19003	-6977	-6978	S	1905	QA	ZG	0.00	377.00	0.38	377.00
19003	-6979	-6980	S	1905	QA	ZG	0.00	377.00	0.03	377.00
19003	-6980	1911	S	1905	QA	ZG	0.00	555.00	0.38	555.00
19003	-6981	-6982	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6983	-6984	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6985	-6986	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6987	1912	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6988	-6989	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6990	-6991	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6992	-6993	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6994	-6995	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	1913	1914	S	1904	QA	ZG	0.00	555.00	3.25	555.00
19003	1915	-6996	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-6997	-6998	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-6999	-7000	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7001	-7002	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7003	1916	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7004	-7005	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7006	-7007	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7008	-7009	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7010	-7011	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	1917	-7012	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7012	-7013	S	1904	QA	ZG	0.29	377.00	0.36	377.00
19003	-7014	-7015	S	1904	QA	ZG	0.00	377.00	0.36	377.00
19003	-7016	-7017	S	1904	QA	ZG	0.00	377.00	0.36	377.00
19003	-7017	-7018	S	1904	QA	ZG	0.06	555.00	0.36	555.00
19003	1918	-7019	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7020	-7021	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7022	-7023	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7024	-7025	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7026	1919	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7027	-7028	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7029	-7030	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7031	-7032	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7033	-7034	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19007	1925	1926	S	1905	QA	ZG	0.00	555.00	3.25	555.00
19007	1926	1927	S	1905	QA	ZG	0.00	555.00	3.25	555.00

17009	1745	1746	S	1703	QA	ZG	0.00	517.00	3.18	517.00
17009	1747	1748	S	1704	QA	ZG	0.00	517.00	3.25	517.00
17009	1749	1750	S	1704	QA	ZG	0.00	517.00	3.25	517.00
17009	1752	1753	S	1707	QA	ZG	0.00	517.00	3.23	517.00
19003	1907	1908	S	1905	QA	ZG	0.00	555.00	3.25	555.00
19003	-6959	-6960	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6961	-6962	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6963	-6964	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6965	-6966	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	1909	-6967	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6968	-6969	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6970	-6971	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6972	-6973	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	1910	-6974	S	1905	QA	ZG	0.00	555.00	0.38	555.00
19003	-6974	-6975	S	1905	QA	ZG	0.33	377.00	0.38	377.00
19003	-6976	-6977	S	1905	QA	ZG	0.00	377.00	0.38	377.00
19003	-6978	-6979	S	1905	QA	ZG	0.00	377.00	0.38	377.00
19003	-6979	-6980	S	1905	QA	ZG	0.03	555.00	0.38	555.00
19003	1911	-6981	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6982	-6983	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6984	-6985	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	-6986	-6987	S	1905	QA	ZG	0.00	555.00	0.40	555.00
19003	1912	-6988	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6989	-6990	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6991	-6992	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6993	-6994	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	-6995	1913	S	1905	QA	ZG	0.00	555.00	0.36	555.00
19003	1914	1915	S	1904	QA	ZG	0.00	555.00	3.25	555.00
19003	-6996	-6997	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-6998	-6999	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7000	-7001	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7002	-7003	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	1916	-7004	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7005	-7006	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7007	-7008	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7009	-7010	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7011	1917	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7012	-7013	S	1904	QA	ZG	0.00	555.00	0.29	555.00
19003	-7013	-7014	S	1904	QA	ZG	0.00	377.00	0.36	377.00
19003	-7015	-7016	S	1904	QA	ZG	0.00	377.00	0.36	377.00
19003	-7017	-7018	S	1904	QA	ZG	0.00	377.00	0.06	377.00
19003	-7018	1918	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7019	-7020	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7021	-7022	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7023	-7024	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7025	-7026	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	1919	-7027	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7028	-7029	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7030	-7031	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7032	-7033	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19003	-7034	1920	S	1904	QA	ZG	0.00	555.00	0.36	555.00
19007	1925	1926	S	1906	QA	ZG	0.00	517.00	3.25	517.00
19007	1926	1927	S	1906	QA	ZG	0.00	517.00	3.25	517.00



Relazione di calcolo

19007	1927	1989	S	1905	QA	ZG	0.00	555.00	3.20	555.00	19007	1927	1989	S	1906	QA	ZG	0.00	517.00	3.20	517.00
19007	1989	1990	S	1905	QA	ZG	0.00	555.00	0.70	555.00	19007	1991	1992	S	1905	QA	ZG	0.00	555.00	0.72	555.00
19007	1992	1928	S	1903	QA	ZG	0.00	517.00	3.18	517.00	19007	1992	1928	S	1905	QA	ZG	0.00	555.00	3.18	555.00
19007	1928	1929	S	1903	QA	ZG	0.00	517.00	3.25	517.00	19007	1928	1929	S	1905	QA	ZG	0.00	555.00	3.25	555.00
19007	1929	1930	S	1904	QA	ZG	0.00	555.00	3.25	555.00	19007	1929	1930	S	1908	QA	ZG	0.00	517.00	3.25	517.00
19007	1930	1931	S	1904	QA	ZG	0.00	555.00	3.25	555.00	19007	1930	1931	S	1908	QA	ZG	0.00	517.00	3.25	517.00
19007	1931	1932	S	1904	QA	ZG	0.00	555.00	3.25	555.00	19007	1931	1932	S	1908	QA	ZG	0.00	517.00	3.25	517.00
19007	1932	1993	S	1904	QA	ZG	0.00	555.00	3.25	555.00	19007	1932	1993	S	1908	QA	ZG	0.00	517.00	3.25	517.00
19007	1993	1994	S	1904	QA	ZG	0.00	555.00	0.65	555.00	19007	1995	1996	S	1904	QA	ZG	0.00	555.00	0.67	555.00
19007	1996	1933	S	1904	QA	ZG	0.00	555.00	3.23	555.00	19007	1996	1933	S	1907	QA	ZG	0.00	517.00	3.23	517.00
19007	1933	1934	S	1904	QA	ZG	0.00	555.00	3.23	555.00	19007	1933	1934	S	1907	QA	ZG	0.00	517.00	3.23	517.00
19009	1941	1942	S	1906	QA	ZG	0.00	517.00	3.25	517.00	19009	1942	1943	S	1906	QA	ZG	0.00	517.00	3.25	517.00
19009	1943	1944	S	1906	QA	ZG	0.00	517.00	3.20	517.00	19009	1945	1946	S	1903	QA	ZG	0.00	517.00	3.18	517.00
19009	1946	1947	S	1903	QA	ZG	0.00	517.00	3.25	517.00	19009	1947	1948	S	1908	QA	ZG	0.00	517.00	3.25	517.00
19009	1948	1949	S	1908	QA	ZG	0.00	517.00	3.25	517.00	19009	1949	1950	S	1908	QA	ZG	0.00	517.00	3.25	517.00
19009	1950	1951	S	1908	QA	ZG	0.00	517.00	3.25	517.00	19009	1952	1953	S	1907	QA	ZG	0.00	517.00	3.23	517.00
19009	1953	1954	S	1907	QA	ZG	0.00	517.00	3.23	517.00	22020	7	25	S	2209	QA	ZG	0.00	325.00	5.55	325.00
22020	25	41	S	2208	QA	ZG	0.00	325.00	5.17	325.00	22021	8	26	S	2206	QA	ZG	0.00	325.00	5.55	325.00
22021	8	26	S	2209	QA	ZG	0.00	325.00	5.55	325.00	22021	26	42	S	2207	QA	ZG	0.00	325.00	5.17	325.00
22021	26	42	S	2208	QA	ZG	0.00	325.00	5.17	325.00	22022	9	27	S	2206	QA	ZG	0.00	325.00	5.55	325.00
22022	9	27	S	2220	QA	ZG	0.00	320.00	5.55	320.00	22022	27	43	S	2207	QA	ZG	0.00	325.00	5.17	325.00
22022	27	43	S	2221	QA	ZG	0.00	320.00	5.17	320.00	22024	10	59	S	2220	QA	ZG	0.00	320.00	2.66	320.00
22024	10	59	S	2223	QA	ZG	0.00	300.00	2.66	300.00	22024	59	-105	S	2220	QA	ZG	0.00	320.00	1.11	320.00
22024	59	-105	S	2223	QA	ZG	0.00	300.00	1.11	300.00	22024	-105	-123	S	2220	QA	ZG	0.00	320.00	0.59	320.00
22024	-105	-123	S	2223	QA	ZG	0.00	300.00	0.59	300.00	22024	-123	-140	S	2220	QA	ZG	0.00	320.00	0.59	320.00
22024	-123	-140	S	2223	QA	ZG	0.00	300.00	0.59	300.00	22024	-140	-157	S	2220	QA	ZG	0.00	320.00	0.59	320.00
22024	-140	-157	S	2223	QA	ZG	0.00	300.00	0.59	300.00	22024	-157	-178	S	2221	QA	ZG	0.00	320.00	1.11	320.00
22024	-157	-178	S	2222	QA	ZG	0.00	300.00	1.11	300.00	22024	-178	44	S	2221	QA	ZG	0.00	320.00	4.06	320.00
22024	-178	44	S	2222	QA	ZG	0.00	300.00	4.06	300.00	22027	11	60	S	2223	QA	ZG	0.00	300.00	2.66	300.00
22027	11	60	S	2224	QA	ZG	0.00	318.00	2.66	318.00	22027	60	-109	S	2223	QA	ZG	0.00	300.00	1.11	300.00
22027	60	-109	S	2224	QA	ZG	0.00	318.00	1.11	318.00	22027	-109	-127	S	2223	QA	ZG	0.00	300.00	0.59	300.00
22027	-109	-127	S	2224	QA	ZG	0.00	318.00	0.59	318.00	22027	-127	-144	S	2223	QA	ZG	0.00	300.00	0.59	300.00
22027	-127	-144	S	2224	QA	ZG	0.00	318.00	0.59	318.00	22027	-144	-161	S	2223	QA	ZG	0.00	300.00	0.59	300.00
22027	-144	-161	S	2224	QA	ZG	0.00	318.00	0.59	318.00	22027	-161	-182	S	2222	QA	ZG	0.00	300.00	1.11	300.00
22027	-161	-182	S	2225	QA	ZG	0.00	318.00	1.11	318.00	22027	-182	45	S	2222	QA	ZG	0.00	300.00	4.06	300.00
22027	-182	45	S	2225	QA	ZG	0.00	318.00	4.06	318.00	22029	12	28	S	2204	QA	ZG	0.00	325.00	5.55	325.00
22029	12	28	S	2224	QA	ZG	0.00	318.00	5.55	318.00	22029	28	46	S	2205	QA	ZG	0.00	325.00	5.17	325.00
22029	28	46	S	2225	QA	ZG	0.00	318.00	5.17	318.00	22030	13	29	S	2202	QA	ZG	0.00	325.00	5.55	325.00
22030	13	29	S	2204	QA	ZG	0.00	325.00	5.55	325.00	22030	29	47	S	2203	QA	ZG	0.00	325.00	5.17	325.00
22030	29	47	S	2205	QA	ZG	0.00	325.00	5.17	325.00	22042	19	133	S	2227	QA	ZG	0.00	323.00	5.55	323.00
22042	19	133	S	2228	QA	ZG	0.00	323.00	5.55	323.00	22043	20	34	S	2228	QA	ZG	0.00	323.00	5.55	323.00
22043	34	54	S	2226	QA	ZG	0.00	323.00	5.17	323.00	22136	130	169	S	2230	QA	ZG	0.00	517.00	3.25	517.00
22136	130	169	S	2231	QA	ZG	0.00	555.00	3.25	555.00	22136	169	170	S	2230	QA	ZG	0.00	517.00	3.25	517.00
22136	169	170	S	2231	QA	ZG	0.00	555.00	3.25	555.00	22136	170	-163	S	2230	QA	ZG	0.00	517.00	3.90	517.00
22136	170	-163	S	2231	QA	ZG	0.00	555.00	3.90	555.00	22179	-165	-166	S	2230	QA	ZG	0.00	517.00	0.34	517.00
22179	-165	-166	S	2231	QA	ZG	0.00	555.00	0.34	555.00	22179	-166	-167	S	2230	QA	ZG	0.00	517.00	0.34	517.00
22179	-166	-167	S	2231	QA	ZG	0.00	555.00	0.34	555.00											

Condizione di carico n. 4: Variabili neve  
Carichi distribuiti

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>	Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-7038	-7039	S	1905	QA2	ZG	0.00	150.80	0.79	150.80	0	-7039	-7040	S	1905	QA2	ZG	0.00	150.80	0.79	150.80
0	-7041	-7042	S	1904	QA2	ZG	0.00	150.80	0.79	150.80	0	-7042	-7043	S	1904	QA2	ZG	0.00	150.80	0.79	150.80



# Relazione di calcolo

19003	1907	1908	S	1905	QA2	ZG	0.00	222.00	3.25	222.00
19003	-6959	-6960	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6961	-6962	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6963	-6964	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6965	-6966	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	1909	-6967	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6968	-6969	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6970	-6971	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6972	-6973	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	1910	-6974	S	1905	QA2	ZG	0.00	222.00	0.38	222.00
19003	-6974	-6975	S	1905	QA2	ZG	0.33	150.80	0.38	150.80
19003	-6976	-6977	S	1905	QA2	ZG	0.00	150.80	0.38	150.80
19003	-6978	-6979	S	1905	QA2	ZG	0.00	150.80	0.38	150.80
19003	-6979	-6980	S	1905	QA2	ZG	0.03	222.00	0.38	222.00
19003	1911	-6981	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6982	-6983	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6984	-6985	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6986	-6987	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	1912	-6988	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6989	-6990	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6991	-6992	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6993	-6994	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6995	1913	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	1914	1915	S	1904	QA2	ZG	0.00	222.00	3.25	222.00
19003	-6996	-6997	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6998	-6999	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7000	-7001	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7002	-7003	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	1916	-7004	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7005	-7006	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7007	-7008	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7009	-7010	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7011	1917	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7012	-7013	S	1904	QA2	ZG	0.00	222.00	0.29	222.00
19003	-7013	-7014	S	1904	QA2	ZG	0.00	150.80	0.36	150.80
19003	-7015	-7016	S	1904	QA2	ZG	0.00	150.80	0.36	150.80
19003	-7017	-7018	S	1904	QA2	ZG	0.00	150.80	0.06	150.80
19003	-7018	1918	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7019	-7020	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7021	-7022	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7023	-7024	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7025	-7026	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	1919	-7027	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7028	-7029	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7030	-7031	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7032	-7033	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7034	1920	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19007	1925	1926	S	1906	QA2	ZG	0.00	206.80	3.25	206.80
19007	1926	1927	S	1906	QA2	ZG	0.00	206.80	3.25	206.80
19007	1927	1989	S	1906	QA2	ZG	0.00	206.80	3.20	206.80
19007	1991	1992	S	1905	QA2	ZG	0.00	222.00	0.72	222.00
19007	1992	1928	S	1905	QA2	ZG	0.00	222.00	3.18	222.00
19007	1928	1929	S	1905	QA2	ZG	0.00	222.00	3.25	222.00

19003	1908	-6959	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6960	-6961	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6962	-6963	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6964	-6965	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6966	1909	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6967	-6968	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6969	-6970	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6971	-6972	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6973	1910	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6974	-6975	S	1905	QA2	ZG	0.00	222.00	0.33	222.00
19003	-6975	-6976	S	1905	QA2	ZG	0.00	150.80	0.38	150.80
19003	-6977	-6978	S	1905	QA2	ZG	0.00	150.80	0.38	150.80
19003	-6979	-6980	S	1905	QA2	ZG	0.00	150.80	0.03	150.80
19003	-6980	1911	S	1905	QA2	ZG	0.00	222.00	0.38	222.00
19003	-6981	-6982	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6983	-6984	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6985	-6986	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6987	1912	S	1905	QA2	ZG	0.00	222.00	0.40	222.00
19003	-6988	-6989	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6990	-6991	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6992	-6993	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6994	-6995	S	1905	QA2	ZG	0.00	222.00	0.36	222.00
19003	1913	1914	S	1904	QA2	ZG	0.00	222.00	3.25	222.00
19003	1915	-6996	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6997	-6998	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6999	-7000	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7001	-7002	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7003	1916	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7004	-7005	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7006	-7007	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7008	-7009	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7010	-7011	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	1917	-7012	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7012	-7013	S	1904	QA2	ZG	0.29	150.80	0.36	150.80
19003	-7014	-7015	S	1904	QA2	ZG	0.00	150.80	0.36	150.80
19003	-7016	-7017	S	1904	QA2	ZG	0.00	150.80	0.36	150.80
19003	-7017	-7018	S	1904	QA2	ZG	0.06	222.00	0.36	222.00
19003	1918	-7019	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7020	-7021	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7022	-7023	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7024	-7025	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7026	1919	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7027	-7028	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7029	-7030	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7031	-7032	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19003	-7033	-7034	S	1904	QA2	ZG	0.00	222.00	0.36	222.00
19007	1925	1926	S	1905	QA2	ZG	0.00	222.00	3.25	222.00
19007	1926	1927	S	1905	QA2	ZG	0.00	222.00	3.25	222.00
19007	1927	1989	S	1905	QA2	ZG	0.00	222.00	3.20	222.00
19007	1989	1990	S	1905	QA2	ZG	0.00	222.00	0.70	222.00
19007	1992	1928	S	1903	QA2	ZG	0.00	206.80	3.18	206.80
19007	1928	1929	S	1903	QA2	ZG	0.00	206.80	3.25	206.80
19007	1929	1930	S	1904	QA2	ZG	0.00	222.00	3.25	222.00



Relazione di calcolo

19007	1929	1930	S	1908	QA2	ZG	0.00	206.80	3.25	206.80	19007	1930	1931	S	1904	QA2	ZG	0.00	222.00	3.25	222.00
19007	1930	1931	S	1908	QA2	ZG	0.00	206.80	3.25	206.80	19007	1931	1932	S	1904	QA2	ZG	0.00	222.00	3.25	222.00
19007	1931	1932	S	1908	QA2	ZG	0.00	206.80	3.25	206.80	19007	1932	1993	S	1904	QA2	ZG	0.00	222.00	3.25	222.00
19007	1932	1993	S	1908	QA2	ZG	0.00	206.80	3.25	206.80	19007	1993	1994	S	1904	QA2	ZG	0.00	222.00	0.65	222.00
19007	1995	1996	S	1904	QA2	ZG	0.00	222.00	0.67	222.00	19007	1996	1933	S	1904	QA2	ZG	0.00	222.00	3.23	222.00
19007	1996	1933	S	1907	QA2	ZG	0.00	206.80	3.23	206.80	19007	1933	1934	S	1904	QA2	ZG	0.00	222.00	3.23	222.00
19007	1933	1934	S	1907	QA2	ZG	0.00	206.80	3.23	206.80	19009	1941	1942	S	1906	QA2	ZG	0.00	206.80	3.25	206.80
19009	1942	1943	S	1906	QA2	ZG	0.00	206.80	3.25	206.80	19009	1943	1944	S	1906	QA2	ZG	0.00	206.80	3.20	206.80
19009	1945	1946	S	1903	QA2	ZG	0.00	206.80	3.18	206.80	19009	1946	1947	S	1903	QA2	ZG	0.00	206.80	3.25	206.80
19009	1947	1948	S	1908	QA2	ZG	0.00	206.80	3.25	206.80	19009	1948	1949	S	1908	QA2	ZG	0.00	206.80	3.25	206.80
19009	1949	1950	S	1908	QA2	ZG	0.00	206.80	3.25	206.80	19009	1950	1951	S	1908	QA2	ZG	0.00	206.80	3.25	206.80
19009	1952	1953	S	1907	QA2	ZG	0.00	206.80	3.23	206.80	19009	1953	1954	S	1907	QA2	ZG	0.00	206.80	3.23	206.80

Condizione di carico n. 5: Scale perm non strutturale  
Carichi distribuiti

Asta	N1	N2	E	N	T	D	C	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>	Asta	N1	N2	E	N	T	D	C	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
3070	400	256	---	M	Z	G		0.00	351.00	2.44	351.00	3084	402	258	---	M	Z	G		0.00	351.00	2.44	351.00
4024	399	455	---	M	Z	G		0.00	351.00	2.44	351.00	4035	401	457	---	M	Z	G		0.00	351.00	2.44	351.00
5070	600	456	---	M	Z	G		0.00	351.00	2.44	351.00	5084	602	458	---	M	Z	G		0.00	351.00	2.44	351.00
6024	599	655	---	M	Z	G		0.00	351.00	2.44	351.00	6035	601	657	---	M	Z	G		0.00	351.00	2.44	351.00
7070	800	656	---	M	Z	G		0.00	351.00	2.44	351.00	7084	802	658	---	M	Z	G		0.00	351.00	2.44	351.00
8024	799	855	---	M	Z	G		0.00	351.00	2.44	351.00	8035	801	857	---	M	Z	G		0.00	351.00	2.44	351.00
9070	1000	856	---	M	Z	G		0.00	351.00	2.44	351.00	9084	1002	858	---	M	Z	G		0.00	351.00	2.44	351.00
10024	999	1055	---	M	Z	G		0.00	351.00	2.44	351.00	10035	1001	1057	---	M	Z	G		0.00	351.00	2.44	351.00
11070	1200	1056	---	M	Z	G		0.00	351.00	2.44	351.00	11084	1202	1058	---	M	Z	G		0.00	351.00	2.44	351.00
12024	1199	1255	---	M	Z	G		0.00	351.00	2.44	351.00	12035	1201	1257	---	M	Z	G		0.00	351.00	2.44	351.00
13070	1400	1256	---	M	Z	G		0.00	351.00	2.44	351.00	13084	1402	1258	---	M	Z	G		0.00	351.00	2.44	351.00
14024	1399	1455	---	M	Z	G		0.00	351.00	2.44	351.00	14035	1401	1457	---	M	Z	G		0.00	351.00	2.44	351.00
15070	1600	1456	---	M	Z	G		0.00	351.00	2.44	351.00	15084	1602	1458	---	M	Z	G		0.00	351.00	2.44	351.00
16024	1599	1655	---	M	Z	G		0.00	351.00	2.44	351.00	16035	1601	1657	---	M	Z	G		0.00	351.00	2.44	351.00
17070	1800	1656	---	M	Z	G		0.00	351.00	2.44	351.00	17084	1802	1658	---	M	Z	G		0.00	351.00	2.44	351.00
18024	1799	1855	---	M	Z	G		0.00	351.00	2.44	351.00	18035	1801	1857	---	M	Z	G		0.00	351.00	2.44	351.00
19070	2000	1856	---	M	Z	G		0.00	351.00	2.44	351.00	19084	2002	1858	---	M	Z	G		0.00	351.00	2.44	351.00

Condizione di carico n. 6: scale variabile  
Carichi distribuiti

Asta	N1	N2	E	N	T	D	C	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>	Asta	N1	N2	E	N	T	D	C	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
3070	400	256	---	M	Z	G		0.00	468.00	2.44	468.00	3084	402	258	---	M	Z	G		0.00	468.00	2.44	468.00
4024	399	455	---	M	Z	G		0.00	468.00	2.44	468.00	4035	401	457	---	M	Z	G		0.00	468.00	2.44	468.00
5070	600	456	---	M	Z	G		0.00	468.00	2.44	468.00	5084	602	458	---	M	Z	G		0.00	468.00	2.44	468.00
6024	599	655	---	M	Z	G		0.00	468.00	2.44	468.00	6035	601	657	---	M	Z	G		0.00	468.00	2.44	468.00
7070	800	656	---	M	Z	G		0.00	468.00	2.44	468.00	7084	802	658	---	M	Z	G		0.00	468.00	2.44	468.00
8024	799	855	---	M	Z	G		0.00	468.00	2.44	468.00	8035	801	857	---	M	Z	G		0.00	468.00	2.44	468.00
9070	1000	856	---	M	Z	G		0.00	468.00	2.44	468.00	9084	1002	858	---	M	Z	G		0.00	468.00	2.44	468.00
10024	999	1055	---	M	Z	G		0.00	468.00	2.44	468.00	10035	1001	1057	---	M	Z	G		0.00	468.00	2.44	468.00
11070	1200	1056	---	M	Z	G		0.00	468.00	2.44	468.00	11084	1202	1058	---	M	Z	G		0.00	468.00	2.44	468.00
12024	1199	1255	---	M	Z	G		0.00	468.00	2.44	468.00	12035	1201	1257	---	M	Z	G		0.00	468.00	2.44	468.00
13070	1400	1256	---	M	Z	G		0.00	468.00	2.44	468.00	13084	1402	1258	---	M	Z	G		0.00	468.00	2.44	468.00
14024	1399	1455	---	M	Z	G		0.00	468.00	2.44	468.00	14035	1401	1457	---	M	Z	G		0.00	468.00	2.44	468.00
15070	1600	1456	---	M	Z	G		0.00	468.00	2.44	468.00	15084	1602	1458	---	M	Z	G		0.00	468.00	2.44	468.00
16024	1599	1655	---	M	Z	G		0.00	468.00	2.44	468.00	16035	1601	1657	---	M	Z	G		0.00	468.00	2.44	468.00
17070	1800	1656	---	M	Z	G		0.00	468.00	2.44	468.00	17084	1802	1658	---	M	Z	G		0.00	468.00	2.44	468.00
18024	1799	1855	---	M	Z	G		0.00	468.00	2.44	468.00	18035	1801	1857	---	M	Z	G		0.00	468.00	2.44	468.00



## Relazione di calcolo

19070	2000	1856	--	M	Z	G	0.00	468.00	2.44	468.00	19084	2002	1858	--	M	Z	G	0.00	468.00	2.44	468.00
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## Elenco carichi elementi bidimensionaliElenco peso proprio elementi bidimensionali

### Simbologia

Comm. = Commento  
 Mat. = Materiale  
 P = Peso specifico  
 PQ = Peso specifico per unità di superficie  
 Spess. = Spessore  
 Tb = Numero del tipo muro/elemento bidimensionale

Tb	Comm.	Spess. <cm>	Mat.	P <daN/mc>	PQ <daN/mq>
1	Nuclei ascensore	14.00	Calcestruzzo	2500.00	350.00
2	Balconi	20.00	Calcestruzzo	2500.00	500.00
4	Fond Ascensore	70.00	Calcestruzzo	2500.00	1750.00
5	Parete scantinato	40.00	Calcestruzzo	2500.00	1000.00
6	Parete scantinato s 50	50.00	Calcestruzzo	2500.00	1250.00
9	Vano Scala sp.20	20.00	Calcestruzzo	2500.00	500.00

## Condizione di carico n. 2: Permanenti non strutturali Carichi uniformi

### Simbologia

Bid. = Numero del muro/elemento bidimensionale  
 DC = Direzione del carico  
     G = secondo gli assi globali  
     L = secondo gli assi locali  
 N1 = Nodo1  
 N2 = Nodo2  
 N3 = Nodo3  
 N4 = Nodo4  
 Qx = Carico in dir. X  
 Qy = Carico in dir. Y  
 Qz = Carico in dir. Z  
 T = Tipo di carico  
     PP = Peso proprio  
     M = Manuale

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2285	--	--	--	--	M	G	0.00	0.00	90.00
2291	--	--	--	--	M	G	0.00	0.00	90.00
2294	--	--	--	--	M	G	0.00	0.00	90.00
2297	--	--	--	--	M	G	0.00	0.00	90.00
2300	--	--	--	--	M	G	0.00	0.00	90.00
2303	--	--	--	--	M	G	0.00	0.00	90.00
2306	--	--	--	--	M	G	0.00	0.00	90.00
2309	--	--	--	--	M	G	0.00	0.00	90.00
2312	--	--	--	--	M	G	0.00	0.00	90.00

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2290	--	--	--	--	M	G	0.00	0.00	90.00
2293	--	--	--	--	M	G	0.00	0.00	90.00
2296	--	--	--	--	M	G	0.00	0.00	90.00
2299	--	--	--	--	M	G	0.00	0.00	90.00
2302	--	--	--	--	M	G	0.00	0.00	90.00
2305	--	--	--	--	M	G	0.00	0.00	90.00
2308	--	--	--	--	M	G	0.00	0.00	90.00
2311	--	--	--	--	M	G	0.00	0.00	90.00
2314	--	--	--	--	M	G	0.00	0.00	90.00

## Condizione di carico n. 3: Variabili Civile Abitazione Carichi uniformi

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2285	--	--	--	--	M	G	0.00	0.00	400.00
2291	--	--	--	--	M	G	0.00	0.00	400.00
2294	--	--	--	--	M	G	0.00	0.00	400.00
2297	--	--	--	--	M	G	0.00	0.00	400.00
2300	--	--	--	--	M	G	0.00	0.00	400.00
2303	--	--	--	--	M	G	0.00	0.00	400.00
2306	--	--	--	--	M	G	0.00	0.00	400.00
2309	--	--	--	--	M	G	0.00	0.00	400.00
2312	--	--	--	--	M	G	0.00	0.00	400.00

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2290	--	--	--	--	M	G	0.00	0.00	400.00
2293	--	--	--	--	M	G	0.00	0.00	400.00
2296	--	--	--	--	M	G	0.00	0.00	400.00
2299	--	--	--	--	M	G	0.00	0.00	400.00
2302	--	--	--	--	M	G	0.00	0.00	400.00
2305	--	--	--	--	M	G	0.00	0.00	400.00
2308	--	--	--	--	M	G	0.00	0.00	400.00
2311	--	--	--	--	M	G	0.00	0.00	400.00
2314	--	--	--	--	M	G	0.00	0.00	400.00

## Condizione di carico n. 5: Scale perm non strutturale



**Carichi uniformi**

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2316	--	--	--	--	MG	0.00	0.00	125.00
2319	--	--	--	--	MG	0.00	0.00	125.00
2320	--	--	--	--	MG	0.00	0.00	125.00
2322	--	--	--	--	MG	0.00	0.00	125.00
2323	--	--	--	--	MG	0.00	0.00	125.00
2325	--	--	--	--	MG	0.00	0.00	125.00
2326	--	--	--	--	MG	0.00	0.00	125.00
2328	--	--	--	--	MG	0.00	0.00	125.00
2329	--	--	--	--	MG	0.00	0.00	125.00
2331	--	--	--	--	MG	0.00	0.00	125.00
2332	--	--	--	--	MG	0.00	0.00	125.00
2334	--	--	--	--	MG	0.00	0.00	125.00
2335	--	--	--	--	MG	0.00	0.00	125.00
2337	--	--	--	--	MG	0.00	0.00	125.00
2338	--	--	--	--	MG	0.00	0.00	125.00
2340	--	--	--	--	MG	0.00	0.00	125.00
2341	--	--	--	--	MG	0.00	0.00	125.00
2343	--	--	--	--	MG	0.00	0.00	125.00
2344	--	--	--	--	MG	0.00	0.00	125.00
2346	--	--	--	--	MG	0.00	0.00	125.00
2347	--	--	--	--	MG	0.00	0.00	125.00
2355	--	--	--	--	MG	0.00	0.00	125.00
2356	--	--	--	--	MG	0.00	0.00	125.00
2357	--	--	--	--	MG	0.00	0.00	125.00
2358	--	--	--	--	MG	0.00	0.00	125.00
2359	--	--	--	--	MG	0.00	0.00	125.00
2360	--	--	--	--	MG	0.00	0.00	125.00
2361	--	--	--	--	MG	0.00	0.00	125.00
2362	--	--	--	--	MG	0.00	0.00	125.00
2363	--	--	--	--	MG	0.00	0.00	125.00
2364	--	--	--	--	MG	0.00	0.00	125.00
2365	--	--	--	--	MG	0.00	0.00	125.00
2366	--	--	--	--	MG	0.00	0.00	125.00
2367	--	--	--	--	MG	0.00	0.00	125.00
2368	--	--	--	--	MG	0.00	0.00	125.00
2315	-7093	-7098	-7096	-262	MG	0.00	0.00	125.00
2315	257	-7083	-7087	-7086	MG	0.00	0.00	125.00
2315	-258	-7089	-7098	-7093	MG	0.00	0.00	125.00
2315	-7086	-7087	-7084	-257	MG	0.00	0.00	125.00
2315	-7089	-259	-7097	-7098	MG	0.00	0.00	125.00
2315	-250	-7088	-7091	-7085	MG	0.00	0.00	125.00
2315	-7088	258	-7090	-7091	MG	0.00	0.00	125.00
2315	-7085	-7091	-7089	-258	MG	0.00	0.00	125.00
2315	-7098	-7097	252	-7096	MG	0.00	0.00	125.00
2315	-7091	-7090	-259	-7089	MG	0.00	0.00	125.00
2315	-7087	-7085	-258	-7084	MG	0.00	0.00	125.00
2315	-7083	-250	-7085	-7087	MG	0.00	0.00	125.00

**Condizione di carico n. 6: scale variabile****Carichi uniformi**

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2316	--	--	--	--	MG	0.00	0.00	400.00
2319	--	--	--	--	MG	0.00	0.00	400.00
2320	--	--	--	--	MG	0.00	0.00	400.00
2322	--	--	--	--	MG	0.00	0.00	400.00
2323	--	--	--	--	MG	0.00	0.00	400.00
2325	--	--	--	--	MG	0.00	0.00	400.00
2326	--	--	--	--	MG	0.00	0.00	400.00
2328	--	--	--	--	MG	0.00	0.00	400.00
2329	--	--	--	--	MG	0.00	0.00	400.00
2331	--	--	--	--	MG	0.00	0.00	400.00
2332	--	--	--	--	MG	0.00	0.00	400.00
2334	--	--	--	--	MG	0.00	0.00	400.00
2335	--	--	--	--	MG	0.00	0.00	400.00
2337	--	--	--	--	MG	0.00	0.00	400.00
2338	--	--	--	--	MG	0.00	0.00	400.00
2340	--	--	--	--	MG	0.00	0.00	400.00
2341	--	--	--	--	MG	0.00	0.00	400.00
2343	--	--	--	--	MG	0.00	0.00	400.00
2344	--	--	--	--	MG	0.00	0.00	400.00
2346	--	--	--	--	MG	0.00	0.00	400.00
2347	--	--	--	--	MG	0.00	0.00	400.00
2355	--	--	--	--	MG	0.00	0.00	400.00
2356	--	--	--	--	MG	0.00	0.00	400.00



## Relazione di calcolo

2357	--	--	--	--	MG	0.00	0.00	400.00
2358	--	--	--	--	MG	0.00	0.00	400.00
2359	--	--	--	--	MG	0.00	0.00	400.00
2360	--	--	--	--	MG	0.00	0.00	400.00
2361	--	--	--	--	MG	0.00	0.00	400.00
2362	--	--	--	--	MG	0.00	0.00	400.00
2363	--	--	--	--	MG	0.00	0.00	400.00
2364	--	--	--	--	MG	0.00	0.00	400.00
2365	--	--	--	--	MG	0.00	0.00	400.00
2366	--	--	--	--	MG	0.00	0.00	400.00
2367	--	--	--	--	MG	0.00	0.00	400.00
2368	--	--	--	--	MG	0.00	0.00	400.00
2315	-7093	-7098	-7096	-262	MG	0.00	0.00	400.00
2315	257	-7083	-7087	-7086	MG	0.00	0.00	400.00
2315	-258	-7089	-7098	-7093	MG	0.00	0.00	400.00
2315	-7086	-7087	-7084	-257	MG	0.00	0.00	400.00
2315	-7089	-259	-7097	-7098	MG	0.00	0.00	400.00
2315	-250	-7088	-7091	-7085	MG	0.00	0.00	400.00
2315	-7088	258	-7090	-7091	MG	0.00	0.00	400.00
2315	-7085	-7091	-7089	-258	MG	0.00	0.00	400.00
2315	-7098	-7097	252	-7096	MG	0.00	0.00	400.00
2315	-7091	-7090	-259	-7089	MG	0.00	0.00	400.00
2315	-7087	-7085	-258	-7084	MG	0.00	0.00	400.00
2315	-7083	-250	-7085	-7087	MG	0.00	0.00	400.00

## Risultati del calcolo

### Parametri di calcolo

La modellazione della struttura e la rielaborazione dei risultati del calcolo sono stati effettuati con:  
ModeSt ver. 8.27, licenza n. 5958, prodotto da Tecnisoft s.a.s. - Prato  
La struttura è stata calcolata utilizzando come solutore agli elementi finiti:  
Xfinest ver. 9.4.1, licenza n. -725370720, prodotto da Ce.A.S. S.r.l. - Milano

Tipo di normativa: stati limite D.M. 18  
Tipo di calcolo: statico  
Vincoli esterni: Considera sempre vincoli assegnati in modellazione  
Schematizzazione piani rigidi: metodo Master-Slave solo per forze sismiche  
Modalità di recupero masse secondarie: trasferire le masse  
- All'impalcato più vicino in assoluto: No  
- Anche sui nodi degli impalcati non rigidi: No  
- Modificare coordinate baricentro impalcati rigidi: XY

### Generazione combinazioni

- Lineari: Sì  
- Valuta spostamenti e non sollecitazioni: No  
- Buckling: No

### Opzioni di calcolo

- Sono state considerate infinitamente rigide le zone di connessione fra travi, pilastri ed elementi bidimensionali con una riduzione del 20%  
- Calcolo con offset rigidi dai nodi: No  
- Uniformare i carichi variabili: No  
- Massimizzare i carichi variabili: No  
- Recupero carichi zone rigide: taglio e momento flettente

### Opzioni del solutore

- Tipo di elemento bidimensionale: QF46  
- Calcolo sforzo nei nodi: No  
- Trascura deformabilità a taglio delle aste: No  
- Analisi dinamica con metodo di Lanczos: Sì  
- Check sequenza di Sturm: Sì  
- Analisi non lineare con Newton modificato: No  
- Usa formulazione secante per buckling: No  
- Trascura buckling torsionale: No

### Dati struttura

- Edificio esistente: Sì  
- Tipo di opera: Opera ordinaria  
- Vita nominale  $V_N$ : 50.00  
- Classe d'uso: Classe II  
- Forze orizzontali convenzionali per stati limite non sismici: No  
- Genera stati limite per verifiche di resistenza al fuoco: No

### Ambienti di carico

#### Simbologia

N = Numero



## Relazione di calcolo

Comm. = Commento  
1=Permanenti strutturali  
2=Permanenti non strutturali  
3=Variabili Civile Abitazione  
4=Variabili neve  
5=Scale perm non strutturale  
6=scale variabile  
F =azioni orizzontali convenzionali  
SLU =Stato limite ultimo  
SLR =Stato limite per combinazioni rare  
SLF =Stato limite per combinazioni frequenti  
SLQ/D=Stato limite per combinazioni quasi permanenti o di danno  
S = Si  
N = No

N	Comm.	1	2	3	4	5	6	SLU	SLR	SLF	SLQ
1	Calcolo statico	S	S	S	S	S	S	S	S	S	S

### Elenco combinazioni di carico simboliche

**Simbologia**  
CC =Numero della combinazione delle condizioni di carico elementari  
Comm. =Commento  
TCC =Tipo di combinazione di carico  
SLU = Stato limite ultimo  
SLE R = Stato limite d'esercizio, combinazione rara  
SLE F = Stato limite d'esercizio, combinazione frequente  
SLE Q = Stato limite d'esercizio, combinazione quasi permanente

CC	Comm.	TCC	1	2	3	4	5	6
1	Amb. 1 (SLU)	SLU	$\gamma$ max	$\gamma$ max	$\gamma$ max	$\gamma$ max	$\gamma$ max	$\gamma$ max
2	Amb. 1 (SLE R)	SLE R	1	1	1	1	1	1
3	Amb. 1 (SLE F)	SLE F	1	1	$\Psi_1$	$\Psi_1$	1	$\Psi_1$
4	Amb. 1 (SLE Q)	SLE Q	1	1	$\Psi_2$	$\Psi_2$	1	$\Psi_2$

Genera le combinazioni con un solo carico di tipo variabile come di base: No

Considera sollecitazioni dinamiche con segno dei modi principali: No

### Combinazioni delle CCE

**Simbologia**  
An. =Tipo di analisi  
L = Lineare  
NL = Non lineare  
Bk =Buckling  
S = Si  
N = No  
CC =Numero della combinazione delle condizioni di carico elementari  
Comm. =Commento  
TCC =Tipo di combinazione di carico  
SLU = Stato limite ultimo  
SLE R = Stato limite d'esercizio, combinazione rara  
SLE F = Stato limite d'esercizio, combinazione frequente  
SLE Q = Stato limite d'esercizio, combinazione quasi permanente

CC	Comm.	TCC	An.	Bk	1	2	3	4	5	6
1	Amb. 1 (SLU)	SLU	L	N	1.30	1.50	1.50	1.50	1.50	1.50
2	Amb. 1 (SLE R)	SLE R	L	N	1.00	1.00	1.00	1.00	1.00	1.00
3	Amb. 1 (SLE F)	SLE F	L	N	1.00	1.00	0.50	0.20	1.00	0.50
4	Amb. 1 (SLE Q)	SLE Q	L	N	1.00	1.00	0.30	0.00	1.00	0.30

## Reazioni vincolari

**Simbologia**  
CC =Numero della combinazione delle condizioni di carico elementari  
Fx =Reazione vincolare (forza) in dir. X  
Fy =Reazione vincolare (forza) in dir. Y  
Fz =Reazione vincolare (forza) in dir. Z  
Mx =Reazione vincolare (momento) intorno all'asse X  
My =Reazione vincolare (momento) intorno all'asse Y  
Mz =Reazione vincolare (momento) intorno all'asse Z  
Nodo =Numero del nodo  
TCC =Tipo di combinazione di carico  
SLU = Stato limite ultimo  
SLE R = Stato limite d'esercizio, combinazione rara  
SLE F = Stato limite d'esercizio, combinazione frequente  
SLE Q = Stato limite d'esercizio, combinazione quasi permanente

Nodo	CC	TCC	Fx	CC	TCC	Fy	CC	TCC	Fz	CC	TCC	Mx	CC	TCC	My	CC	TCC	Mz
------	----	-----	----	----	-----	----	----	-----	----	----	-----	----	----	-----	----	----	-----	----



Relazione di calcolo

			<daN>		<daN>		<daN>		<daNm>		<daNm>		<daNm>
-7140	Max	4 SLE Q	-278.69	4 SLE Q	-49.76	1 SLU	41494.50	1 SLU	15.12	4 SLE Q	-163.47	4 SLE Q	-13.70
-7140	Min	1 SLU	-459.18	1 SLU	-109.43	4 SLE Q	25245.50	4 SLE Q	-11.30	1 SLU	-261.35	1 SLU	-28.63
-7139	Max	1 SLU	1363.64	4 SLE Q	-116.92	1 SLU	41593.80	1 SLU	95.84	1 SLU	281.17	1 SLU	13.17
-7139	Min	4 SLE Q	802.93	1 SLU	-266.57	4 SLE Q	25182.20	4 SLE Q	21.11	4 SLE Q	176.23	1 SLU	7.70
-7138	Max	1 SLU	484.51	4 SLE Q	-83.27	1 SLU	40184.60	1 SLU	73.68	4 SLE Q	1.85	4 SLE Q	-3.69
-7138	Min	4 SLE Q	280.56	1 SLU	-184.14	4 SLE Q	24442.70	4 SLE Q	15.04	2 SLE R	1.37	1 SLU	-9.82
-7136	Max	4 SLE Q	-1122.11	4 SLE Q	-119.56	1 SLU	40976.30	1 SLU	273.31	1 SLU	21.93	2 SLE R	-26.39
-7136	Min	1 SLU	-1702.73	1 SLU	-260.08	4 SLE Q	25630.00	4 SLE Q	93.72	4 SLE Q	0.98	1 SLU	-36.67
-7135	Max	1 SLU	2633.85	4 SLE Q	-42.25	1 SLU	40211.80	1 SLU	136.23	4 SLE Q	-9.37	4 SLE Q	-45.24
-7135	Min	4 SLE Q	1534.85	1 SLU	-132.12	4 SLE Q	25156.70	4 SLE Q	-1.12	1 SLU	-20.18	1 SLU	-87.81
-7134	Max	1 SLU	553.51	4 SLE Q	0.92	1 SLU	39687.40	1 SLU	134.12	4 SLE Q	-8.43	4 SLE Q	-49.84
-7134	Min	4 SLE Q	243.86	1 SLU	-73.27	4 SLE Q	24720.70	4 SLE Q	-5.56	1 SLU	-20.07	1 SLU	-78.20
-187	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	1900.60	1 SLU	0.00	2 SLE R	-48.73	1 SLU	0.00
-187	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	1462.00	1 SLU	0.00	1 SLU	-63.35	1 SLU	0.00
-186	Max	1 SLU	6279.76	4 SLE Q	-2190.55	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00	4 SLE Q	-2185.62
-186	Min	4 SLE Q	4101.74	1 SLU	-3378.98	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00	1 SLU	-3389.50
-183	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	309.34	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-183	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	237.96	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-182	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	8763.98	1 SLU	3720.04	1 SLU	0.00	1 SLU	0.00
-182	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	5181.53	4 SLE Q	2136.17	1 SLU	0.00	1 SLU	0.00
-181	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	953.28	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-181	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	733.29	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-180	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	997.47	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-180	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	767.29	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-179	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	940.66	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-179	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	723.58	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-178	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	8785.52	1 SLU	3730.06	1 SLU	0.00	1 SLU	0.00
-178	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	5193.05	4 SLE Q	2141.53	1 SLU	0.00	1 SLU	0.00
-177	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	321.97	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-177	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	247.67	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-164	Max	4 SLE Q	-152.68	1 SLU	8707.19	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00	4 SLE Q	-954.36
-164	Min	1 SLU	-412.48	4 SLE Q	5616.39	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00	1 SLU	-1483.82
-162	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	474.70	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-162	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	365.15	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-161	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	3892.13	1 SLU	234.22	1 SLU	0.00	1 SLU	0.00
-161	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	2463.57	4 SLE Q	134.50	1 SLU	0.00	1 SLU	0.00
-160	Max	4 SLE Q	-1067.19	4 SLE Q	-749.81	1 SLU	34089.80	1 SLU	154.01	4 SLE Q	-56.31	1 SLU	-0.12
-160	Min	1 SLU	-1795.32	1 SLU	-1287.48	4 SLE Q	20652.20	4 SLE Q	83.09	4 SLE Q	-93.50	1 SLU	-0.23
-159	Max	1 SLU	478.85	1 SLU	71.65	1 SLU	39869.40	4 SLE Q	-50.58	1 SLU	37.56	4 SLE Q	-1.83
-159	Min	4 SLE Q	305.50	4 SLE Q	42.83	4 SLE Q	24041.10	1 SLU	-82.81	4 SLE Q	23.76	1 SLU	-3.01
-158	Max	1 SLU	2519.61	4 SLE Q	-917.11	1 SLU	37508.70	1 SLU	239.78	1 SLU	159.93	4 SLE Q	-1.05
-158	Min	4 SLE Q	1514.92	1 SLU	-1603.62	4 SLE Q	22665.20	4 SLE Q	131.13	4 SLE Q	96.52	1 SLU	-1.89
-157	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	3899.45	1 SLU	234.85	1 SLU	0.00	1 SLU	0.00
-157	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	2467.49	4 SLE Q	134.83	1 SLU	0.00	1 SLU	0.00
-156	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	494.07	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-156	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	380.06	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-145	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	330.71	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-145	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	254.39	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-144	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	2711.56	4 SLE Q	-0.00	1 SLU	0.00	1 SLU	0.00
-144	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	1716.31	1 SLU	-0.00	1 SLU	0.00	1 SLU	0.00
-143	Max	4 SLE Q	-10.44	1 SLU	2622.63	1 SLU	34393.20	4 SLE Q	-128.89	4 SLE Q	-5.56	4 SLE Q	-1.88
-143	Min	1 SLU	-21.03	4 SLE Q	1539.86	4 SLE Q	21080.30	1 SLU	-219.91	1 SLU	-9.89	1 SLU	-3.09
-142	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	1066.37	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-142	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	820.29	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-141	Max	1 SLU	42.92	1 SLU	3143.75	1 SLU	37483.80	4 SLE Q	-164.96	1 SLU	30.90	1 SLU	2.86
-141	Min	4 SLE Q	24.79	4 SLE Q	1872.57	4 SLE Q	22923.00	1 SLU	-279.01	4 SLE Q	18.57	1 SLU	1.74
-140	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	2716.66	4 SLE Q	-0.00	1 SLU	0.00	1 SLU	0.00
-140	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	1719.04	1 SLU	-0.00	1 SLU	0.00	1 SLU	0.00
-139	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	344.21	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-139	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	264.78	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-128	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	330.71	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-128	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	254.39	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-127	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	2711.56	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-127	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	1716.31	4 SLE Q	0.00	1 SLU	0.00	1 SLU	0.00
-126	Max	4 SLE Q	-79.27	1 SLU	2505.17	1 SLU	42095.50	4 SLE Q	-38.98	4 SLE Q	-26.69	4 SLE Q	-2.87
-126	Min	1 SLU	-122.94	4 SLE Q	1523.66	4 SLE Q	26076.50	1 SLU	-55.02	1 SLU	-41.82	1 SLU	-4.65
-125	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	1066.37	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-125	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	820.29	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-124	Max	1 SLU	147.59	1 SLU	2448.02	1 SLU	45310.60	2 SLE R	-10.70	1 SLU	63.33	1 SLU	4.99
-124	Min	4 SLE Q	93.58	4 SLE Q	1515.17	4 SLE Q	28036.70	4 SLE Q	-15.14	4 SLE Q	39.61	1 SLU	3.10
-123	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	2716.66	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-123	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	1719.04	4 SLE Q	0.00	1 SLU	0.00	1 SLU	0.00
-122	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	344.21	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-122	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	264.78	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-110	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	474.70	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-110	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	365.15	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-109	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	3892.13	4 SLE Q	-134.50	1 SLU	0.00	1 SLU	0.00
-109	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	2463.57	1 SLU	-234.22	1 SLU	0.00	1 SLU	0.00
-108	Max	4 SLE Q	-1480.35	1 SLU	4691.73	1 SLU	59243.40	4 SLE Q	-271.99	4 SLE Q	-34.10	4 SLE Q	-2.60
-108	Min	1 SLU	-2359.60	4 SLE Q	2857.06	4 SLE Q	36972.60	1 SLU	-456.82	1 SLU	-52.16	1 SLU	-4.31
-107	Max	1 SLU	376.97	1 SLU	376.99	1 SLU	66607.00	4 SLE Q	-116.84	1 SLU	34.37	1 SLU	0.45
-107	Min	4 SLE Q	220.87	4 SLE Q	234.90	4 SLE Q	41612.30	1 SLU	-186.77	4 SLE Q	20.50	1 SLU	0.16
-106	Max	1 SLU	2952.10	1 SLU	5073.30	1 SLU	62997.80	4 SLE Q	-315.99	1 SLU	103.06	1 SLU	4.36
-106	Min	4 SLE Q	1833.82	4 SLE Q	3098.49	4 SLE Q	39297.10	1 SLU	-529.99	4 SLE Q	64.55	1 SLU	2.52
-105	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	3899.45	4 SLE Q	-134.83	1 SLU	0.00	1 SLU	0.00
-105	Min	1 SLU	0.00	1 SLU	0.00	4 SLE Q	2467.49	1 SLU	-234.85	1 SLU	0.00	1 SLU	0.00
-104	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	494.07	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-104	Min	1 SLU	0.00	1 SLU	0.00	2 SLE R	380.06	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00
-94	Max	1 SLU	0.00	1 SLU	0.00	1 SLU	309.34	1 SLU	0.00	1 SLU	0.00	1 SLU	0.00



Relazione di calcolo

-94	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	237.96	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-93	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	953.28	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-93	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	733.29	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-92	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	997.47	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-92	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	767.29	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-91	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	940.66	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-91	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	723.58	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-90	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	321.97	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-90	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	247.67	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-81	Max	1	SLU	2773.58	1	SLU	9931.20	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU	9884.89
-81	Min	2	SLE R	1959.03	4	SLE Q	6371.43	1	SLU	0.00	1	SLU	0.00	4	SLE Q	0.00	1	SLU	6385.93
-50	Max	4	SLE Q	-136.40	4	SLE Q	-3836.92	1	SLU	133386.00	4	SLE Q	-1510.92	1	SLU	59651.40	1	SLU	64.11
-50	Min	1	SLU	-213.60	1	SLU	-7009.69	4	SLE Q	83049.90	1	SLU	-2463.30	4	SLE Q	35525.40	1	SLU	39.62
-49	Max	1	SLU	194.67	4	SLE Q	-14633.20	1	SLU	138214.00	1	SLU	4426.47	4	SLE Q	-35609.70	4	SLE Q	-67.16
-49	Min	4	SLE Q	113.12	1	SLU	-25230.40	4	SLE Q	85964.00	4	SLE Q	2458.01	1	SLU	-59768.60	1	SLU	-115.29
-48	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	340.91	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-48	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	262.24	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-47	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	763.89	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-47	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	587.61	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-46	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	921.72	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-46	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	709.01	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-45	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	997.47	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-45	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	767.29	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-44	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	909.09	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-44	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	699.30	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-43	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	763.89	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-43	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	587.61	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-42	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	353.54	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-42	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	271.95	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-41	Max	1	SLU	38392.10	1	SLU	146.09	1	SLU	67730.80	4	SLE Q	-255.70	1	SLU	9429.86	1	SLU	72.47
-41	Min	4	SLE Q	22913.70	4	SLE Q	91.03	4	SLE Q	41977.70	1	SLU	-418.67	4	SLE Q	5445.52	1	SLU	36.27
-40	Max	1	SLU	5187.67	1	SLU	421.93	1	SLU	27629.60	4	SLE Q	-189.42	4	SLE Q	-550.67	1	SLU	101.58
-40	Min	4	SLE Q	3149.38	4	SLE Q	256.31	4	SLE Q	17198.50	1	SLU	-312.66	4	SLE Q	-922.83	1	SLU	59.18
-39	Max	4	SLE Q	-945.62	1	SLU	1258.83	4	SLE Q	-1704.07	2	SLE R	-4.33	1	SLU	141.03	1	SLU	537.39
-39	Min	1	SLU	-1677.92	4	SLE Q	751.80	1	SLU	-4007.65	4	SLE Q	-10.87	4	SLE Q	82.03	1	SLU	332.21
-38	Max	4	SLE Q	-981.30	4	SLE Q	-1201.52	1	SLU	45445.00	1	SLU	88.32	1	SLU	670.30	1	SLU	18.86
-38	Min	1	SLU	-1635.68	1	SLU	-1901.62	4	SLE Q	28141.80	4	SLE Q	55.44	4	SLE Q	418.44	1	SLU	11.52
-37	Max	4	SLE Q	-3430.32	4	SLE Q	-28.13	1	SLU	49102.20	1	SLU	26.52	4	SLE Q	-420.98	1	SLU	8.60
-37	Min	1	SLU	-5589.52	1	SLU	-44.11	4	SLE Q	30337.00	4	SLE Q	17.30	4	SLE Q	-684.26	1	SLU	5.44
-36	Max	1	SLU	2950.83	4	SLE Q	-1851.18	1	SLU	45096.10	1	SLU	189.52	1	SLU	602.64	1	SLU	19.79
-36	Min	4	SLE Q	1811.00	1	SLU	-2984.47	4	SLE Q	27912.10	4	SLE Q	115.43	4	SLE Q	369.02	1	SLU	12.45
-35	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	3115.67	4	SLE Q	-47.63	4	SLE Q	-10.84	1	SLU	0.00
-35	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	2106.04	1	SLU	-79.02	1	SLU	-17.17	1	SLU	0.00
-34	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2008.46	1	SLU	0.00	1	SLU	105.06	1	SLU	0.00
-34	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	1343.09	1	SLU	0.00	4	SLE Q	66.35	1	SLU	0.00
-33	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	364.46	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-33	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	280.35	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-32	Max	4	SLE Q	-124.06	1	SLU	3858.46	1	SLU	14114.20	4	SLE Q	-306.47	4	SLE Q	-5.37	1	SLU	523.07
-32	Min	1	SLU	-206.67	4	SLE Q	2403.62	4	SLE Q	9338.10	1	SLU	-490.55	4	SLE Q	-16.05	1	SLU	319.14
-31	Max	4	SLE Q	-26.22	1	SLU	699.90	1	SLU	36542.10	4	SLE Q	-41.80	4	SLE Q	-31.92	1	SLU	22.42
-31	Min	1	SLU	-47.02	4	SLE Q	343.13	4	SLE Q	22629.60	1	SLU	-75.80	4	SLE Q	-52.95	1	SLU	13.74
-30	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	1066.37	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-30	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	820.29	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-29	Max	4	SLE Q	-96.59	4	SLE Q	-743.69	1	SLU	39341.10	1	SLU	31.75	4	SLE Q	-27.45	1	SLU	24.09
-29	Min	1	SLU	-153.10	1	SLU	-1098.61	4	SLE Q	24339.20	4	SLE Q	23.74	4	SLE Q	-43.69	1	SLU	14.90
-28	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2414.80	4	SLE Q	-0.00	1	SLU	0.00	1	SLU	0.00
-28	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	1591.47	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00
-27	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	377.95	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-27	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	290.73	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-26	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	364.46	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-26	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	280.35	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-25	Max	4	SLE Q	-542.60	1	SLU	3652.56	1	SLU	9774.56	1	SLU	591.98	4	SLE Q	-246.03	1	SLU	817.89
-25	Min	1	SLU	-875.63	4	SLE Q	2300.83	4	SLE Q	6632.96	4	SLE Q	367.83	4	SLE Q	-397.04	1	SLU	501.12
-24	Max	4	SLE Q	-214.45	1	SLU	1023.88	1	SLU	38247.20	4	SLE Q	-15.41	4	SLE Q	-71.90	4	SLE Q	-8.20
-24	Min	1	SLU	-345.29	4	SLE Q	559.03	4	SLE Q	23727.00	1	SLU	-27.68	1	SLU	-115.84	1	SLU	-13.25
-23	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	1066.37	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-23	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	820.29	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-22	Max	1	SLU	119.07	1	SLU	14.81	1	SLU	42509.80	4	SLE Q	-12.49	1	SLU	38.49	4	SLE Q	-4.16
-22	Min	4	SLE Q	74.21	4	SLE Q	-37.69	4	SLE Q	26352.50	1	SLU	-20.51	4	SLE Q	23.93	1	SLU	-6.64
-21	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2414.80	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-21	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	1591.47	4	SLE Q	0.00	1	SLU	0.00	1	SLU	0.00
-20	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	377.95	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-20	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	290.73	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-19	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	523.13	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-19	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	402.41	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-18	Max	4	SLE Q	-6345.85	1	SLU	10480.30	1	SLU	5739.48	4	SLE Q	-1625.74	4	SLE Q	-9347.24	1	SLU	1095.56
-18	Min	1	SLU	-10271.10	4	SLE Q	6507.67	2	SLE R	4421.75	1	SLU	-2576.35	4	SLE Q	-15125.90	1	SLU	688.26
-17	Max	4	SLE Q	-978.53	1	SLU	2954.42	1	SLU	49919.80	4	SLE Q	-113.59	1	SLU	319.29	4	SLE Q	-7.97
-17	Min	1	SLU	-1553.14	4	SLE Q	1770.57	4											



Relazione di calcolo

-11	Min	4	SLE Q	120.20	4	SLE Q	24068.90	4	SLE Q	58650.20	1	SLU	-11503.70	4	SLE Q	-14464.60	1	SLU	87.34
-10	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	340.91	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-10	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	262.24	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-9	Max	4	SLE Q	-293.62	4	SLE Q	-11512.70	1	SLU	112262.00	1	SLU	4887.14	1	SLU	584.58	4	SLE Q	-582.81
-9	Min	1	SLU	-461.68	1	SLU	-17959.20	4	SLE Q	71986.00	4	SLE Q	3135.49	4	SLE Q	351.12	1	SLU	-943.54
-8	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	921.72	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-8	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	709.01	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-7	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2272.75	2	SLE R	-171.67	1	SLU	0.00	1	SLU	0.00
-7	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	1748.27	1	SLU	-223.17	1	SLU	0.00	1	SLU	0.00
-6	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	909.09	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-6	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	699.30	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-5	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	353.54	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-5	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	271.95	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-4	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	11754.60	1	SLU	192.86	1	SLU	12570.30	1	SLU	0.00
-4	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	7307.60	4	SLE Q	127.53	4	SLE Q	7692.75	1	SLU	0.00
-3	Max	1	SLU	24.63	4	SLE Q	-11481.30	1	SLU	81171.70	1	SLU	8611.24	4	SLE Q	-8897.77	4	SLE Q	-41.18
-3	Min	4	SLE Q	15.47	1	SLU	-18135.10	4	SLE Q	51700.20	4	SLE Q	5307.52	1	SLU	-14541.30	1	SLU	-68.04
-2	Max	4	SLE Q	-3672.69	1	SLU	711.28	1	SLU	163135.00	1	SLU	855.93	1	SLU	1393.61	1	SLU	1484.28
-2	Min	1	SLU	-5917.86	4	SLE Q	440.88	4	SLE Q	104106.00	2	SLE R	683.32	4	SLE Q	912.22	1	SLU	964.42
-1	Max	1	SLU	9115.91	4	SLE Q	-1260.01	1	SLU	163968.00	1	SLU	4468.68	1	SLU	3313.83	1	SLU	655.63
-1	Min	4	SLE Q	6199.54	1	SLU	-1939.35	4	SLE Q	106177.00	4	SLE Q	2910.67	4	SLE Q	2166.16	1	SLU	393.14
7	Max	1	SLU	549.52	1	SLU	156.40	1	SLU	96567.90	1	SLU	4734.81	2	SLE R	-1838.68	4	SLE Q	-18.91
7	Min	4	SLE Q	335.74	2	SLE R	126.86	4	SLE Q	62209.20	4	SLE Q	2713.05	1	SLU	-2335.00	1	SLU	-29.40
8	Max	1	SLU	434.41	4	SLE Q	-1071.89	1	SLU	218626.00	1	SLU	10996.00	1	SLU	748.61	4	SLE Q	-41.67
8	Min	4	SLE Q	245.45	1	SLU	-1740.52	4	SLE Q	135724.00	4	SLE Q	6298.95	4	SLE Q	458.27	1	SLU	-63.85
9	Max	4	SLE Q	-33.25	4	SLE Q	-1448.69	1	SLU	234224.00	1	SLU	11759.30	1	SLU	113.41	4	SLE Q	-22.75
9	Min	1	SLU	-72.86	1	SLU	-2328.34	4	SLE Q	144609.00	4	SLE Q	6797.61	2	SLE R	85.92	1	SLU	-33.91
10	Max	1	SLU	314.30	4	SLE Q	-2305.80	1	SLU	242477.00	1	SLU	7376.52	1	SLU	816.97	1	SLU	25.39
10	Min	4	SLE Q	213.95	1	SLU	-3474.42	4	SLE Q	152859.00	4	SLE Q	4600.81	4	SLE Q	582.54	1	SLU	15.83
11	Max	2	SLE R	-77.04	4	SLE Q	-2217.17	1	SLU	241967.00	1	SLU	7088.73	2	SLE R	-276.04	1	SLU	52.44
11	Min	1	SLU	-94.74	1	SLU	-3333.81	4	SLE Q	152562.00	4	SLE Q	4419.47	4	SLE Q	-348.20	1	SLU	33.68
12	Max	1	SLU	348.43	4	SLE Q	-1511.11	1	SLU	235283.00	1	SLU	11539.50	1	SLU	349.33	1	SLU	66.83
12	Min	4	SLE Q	204.63	1	SLU	-2431.74	4	SLE Q	145529.00	4	SLE Q	6656.60	4	SLE Q	183.48	1	SLU	43.55
13	Max	4	SLE Q	-153.79	4	SLE Q	-646.43	1	SLU	233966.00	1	SLU	9586.26	4	SLE Q	-13399.60	1	SLU	19.50
13	Min	1	SLU	-282.53	1	SLU	-1107.50	4	SLE Q	146305.00	4	SLE Q	5375.98	4	SLE Q	-20982.50	1	SLU	13.08
19	Max	4	SLE Q	-8863.95	1	SLU	8868.17	1	SLU	251075.00	1	SLU	12011.30	1	SLU	32210.50	4	SLE Q	-9067.93
19	Min	1	SLU	-13770.60	4	SLE Q	5516.33	4	SLE Q	155569.00	4	SLE Q	6828.54	4	SLE Q	20439.70	1	SLU	-14479.90
20	Max	4	SLE Q	-602.80	4	SLE Q	84.92	1	SLU	182311.00	1	SLU	4968.03	4	SLE Q	687.41	1	SLU	145.95
20	Min	1	SLU	-1042.25	2	SLE R	-96.94	4	SLE Q	114987.00	4	SLE Q	2775.73	4	SLE Q	537.94	1	SLU	94.98
25	Max	1	SLU	641.68	4	SLE Q	-163.00	1	SLU	133864.00	4	SLE Q	-1251.77	2	SLE R	-2272.22	1	SLU	32.08
25	Min	4	SLE Q	365.62	1	SLU	-241.25	4	SLE Q	84247.30	1	SLU	-2117.00	4	SLE Q	-2893.48	1	SLU	20.53
26	Max	1	SLU	9.72	1	SLU	65.51	1	SLU	219361.00	4	SLE Q	-2846.63	1	SLU	311.13	1	SLU	121.28
26	Min	4	SLE Q	-1.36	4	SLE Q	45.65	4	SLE Q	131830.00	1	SLU	-4854.73	4	SLE Q	207.42	1	SLU	77.10
27	Max	1	SLU	549.10	1	SLU	500.60	1	SLU	215832.00	4	SLE Q	-3466.65	1	SLU	3303.04	1	SLU	98.21
27	Min	4	SLE Q	318.04	4	SLE Q	315.17	4	SLE Q	128740.00	1	SLU	-5838.17	4	SLE Q	2401.38	1	SLU	62.41
28	Max	4	SLE Q	-125.62	1	SLU	182.43	1	SLU	217348.00	4	SLE Q	-2965.46	4	SLE Q	-2073.44	4	SLE Q	-92.32
28	Min	1	SLU	-229.65	4	SLE Q	99.50	4	SLE Q	130055.00	1	SLU	-5104.96	1	SLU	-2748.80	1	SLU	-148.63
29	Max	4	SLE Q	-7195.11	4	SLE Q	-479.58	1	SLU	251748.00	4	SLE Q	-2596.71	4	SLE Q	-20262.20	4	SLE Q	-345.67
29	Min	1	SLU	-12162.40	1	SLU	-731.01	4	SLE Q	153540.00	1	SLU	-4503.70	1	SLU	-33443.50	1	SLU	-568.69
34	Max	4	SLE Q	-17235.70	1	SLU	4690.71	1	SLU	204767.00	4	SLE Q	-2060.35	1	SLU	42563.60	4	SLE Q	-10704.50
34	Min	1	SLU	-28884.30	4	SLE Q	2659.15	4	SLE Q	129770.00	1	SLU	-3745.07	4	SLE Q	26180.70	1	SLU	-18076.00
41	Max	1	SLU	548.76	4	SLE Q	-196.88	1	SLU	80721.20	4	SLE Q	-2886.78	2	SLE R	-1079.00	1	SLU	3.60
41	Min	4	SLE Q	333.29	1	SLU	-268.83	4	SLE Q	51840.00	1	SLU	-4978.15	4	SLE Q	-1342.72	1	SLU	1.83
42	Max	1	SLU	30.50	4	SLE Q	-12.73	1	SLU	152377.00	4	SLE Q	-5357.90	1	SLU	218.45	1	SLU	37.45
42	Min	4	SLE Q	15.69	1	SLU	-20.98	4	SLE Q	95342.20	1	SLU	-9462.72	4	SLE Q	144.90	1	SLU	23.07
43	Max	1	SLU	108.91	1	SLU	76.07	1	SLU	147667.00	4	SLE Q	-5498.27	1	SLU	275.72	1	SLU	60.24
43	Min	4	SLE Q	63.39	4	SLE Q	53.40	4	SLE Q	91895.60	1	SLU	-9663.85	4	SLE Q	174.47	1	SLU	39.87
44	Max	1	SLU	1495.20	4	SLE Q	-416.21	1	SLU	91241.00	4	SLE Q	-3242.95	1	SLU	1817.90	4	SLE Q	-0.51
44	Min	4	SLE Q	905.42	1	SLU	-812.24	4	SLE Q	55621.60	1	SLU	-5468.32	2	SLE R	1403.81	1	SLU	-18.91
45	Max	4	SLE Q	-577.18	4	SLE Q	-815.54	1	SLU	91066.00	4	SLE Q	-2978.74	2	SLE R	-1312.40	4	SLE Q	-11.24
45	Min	1	SLU	-949.72	1	SLU	-1819.07	4	SLE Q	55076.20	1	SLU	-4766.46	1	SLU	-1690.54	1	SLU	-19.74
46	Max	4	SLE Q	6.93	1	SLU	63.21	1	SLU	147874.00	4	SLE Q	-5514.70	4	SLE Q	-92.38	4	SLE Q	-55.83
46	Min	1	SLU	-2.07	4	SLE Q	45.63	4	SLE Q	92113.40	1	SLU	-9676.55	1	SLU	-147.16	1	SLU	-84.43
47	Max	4	SLE Q	-8.60	4	SLE Q	-194.29	1	SLU	163363.00	4	SLE Q	-5001.85	4	SLE Q	-9197.86	4	SLE Q	-16.30
47	Min	1	SLU	-21.12	1	SLU	-264.26	4	SLE Q	103043.00	1	SLU	-8949.23	1	SLU	-14414.10	1	SLU	-22.97
54	Max	4	SLE Q	-2775.36	2	SLE R	-777.18	1	SLU	124676.00	4	SLE Q	-2095.05	1	SLU	14058.50	4	SLE Q	193.22
54	Min	1	SLU	-4049.13	1	SLU	-1095.72	4	SLE Q	80809.50	1	SLU	-3838.74	4	SLE Q	9319.81	1	SLU	47.00
56	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2850.87	1	SLU	0.00	1	SLU	817.25	1	SLU	0.00
56	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	2192.98	1	SLU	0.00	2	SLE R	628.65	1	SLU	0.00
59	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	6159.68	4	SLE Q	-593.76	1	SLU	0.00	1	SLU	0.00
59	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	3685.48	1	SLU	-1034.19	1	SLU	0.00	1	SLU	0.00
60	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	6145.19	4	SLE Q	-592.27	1	SLU	0.00	1	SLU	0.00
60	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	3677.73	1	SLU	-1031.42	1	SLU	0.00	1	SLU	0.00
64	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	3001.42	1	SLU	0.00	1	SLU	740.35	1	SLU	0.00
64	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	2308.79	1	SLU	0.00	2	SLE R	569.50	1	SLU	0.00
65	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2960.86	1	SLU	0.00	2	S				



Relazione di calcolo

156	Min	1	SLU	-15266.10	1	SLU	-915.19	4	SLE Q	113202.00	4	SLE Q	2680.21	1	SLU	-4272.04	1	SLU	-569.13
157	Max	1	SLU	3693.07	1	SLU	3068.41	1	SLU	78079.70	1	SLU	1477.68	4	SLE Q	-232.64	1	SLU	1552.53
157	Min	4	SLE Q	2337.17	4	SLE Q	2019.78	4	SLE Q	50378.90	4	SLE Q	820.66	4	SLE Q	-328.33	1	SLU	992.28
158	Max	4	SLE Q	-3026.04	4	SLE Q	-7968.26	1	SLU	128634.00	1	SLU	5625.04	4	SLE Q	-135.64	1	SLU	1823.62
158	Min	1	SLU	-4770.03	1	SLU	-12831.80	4	SLE Q	82741.60	4	SLE Q	3606.84	4	SLE Q	-622.32	1	SLU	1232.69
159	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	5167.69	4	SLE Q	-464.50	1	SLU	0.00	1	SLU	0.00
159	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	3241.98	1	SLU	-770.64	1	SLU	0.00	1	SLU	0.00
160	Max	1	SLU	14529.30	4	SLE Q	-4752.80	1	SLU	74144.90	1	SLU	3945.29	1	SLU	20383.20	4	SLE Q	-9.45
160	Min	4	SLE Q	8599.55	1	SLU	-7778.50	4	SLE Q	47355.40	4	SLE Q	2501.47	4	SLE Q	11467.60	1	SLU	-17.30
161	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	6746.57	4	SLE Q	-272.80	1	SLU	963.57	1	SLU	0.00
161	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	4581.07	1	SLU	-412.55	4	SLE Q	678.69	1	SLU	0.00
162	Max	4	SLE Q	-3030.06	4	SLE Q	-15730.60	1	SLU	84768.70	1	SLU	15593.40	4	SLE Q	-7025.91	1	SLU	44.56
162	Min	1	SLU	-5187.44	1	SLU	-26270.70	4	SLE Q	53267.10	4	SLE Q	9527.36	4	SLE Q	-12461.60	1	SLU	13.12
163	Max	1	SLU	11300.90	1	SLU	14478.90	1	SLU	129976.00	4	SLE Q	-7791.51	1	SLU	167.34	1	SLU	696.62
163	Min	4	SLE Q	7044.95	4	SLE Q	8922.14	4	SLE Q	83817.40	1	SLU	-12366.60	4	SLE Q	-195.69	1	SLU	456.77
164	Max	4	SLE Q	-2524.89	4	SLE Q	-358.43	1	SLU	175255.00	1	SLU	660.98	4	SLE Q	-3529.01	1	SLU	410.92
164	Min	1	SLU	-3966.19	1	SLU	-545.55	4	SLE Q	112314.00	4	SLE Q	400.25	4	SLE Q	-5742.86	1	SLU	288.21
165	Max	1	SLU	1311.48	4	SLE Q	-70.64	1	SLU	173696.00	1	SLU	105.00	4	SLE Q	27.64	4	SLE Q	103.19
165	Min	4	SLE Q	545.22	1	SLU	-196.41	4	SLE Q	110381.00	4	SLE Q	-88.85	2	SLE R	24.54	1	SLU	58.84
166	Max	1	SLU	2764.86	4	SLE Q	-220.15	1	SLU	113843.00	1	SLU	818.02	1	SLU	3141.62	4	SLE Q	-59.66
166	Min	4	SLE Q	1378.99	1	SLU	-430.02	4	SLE Q	71652.30	4	SLE Q	329.84	4	SLE Q	2126.75	1	SLU	-172.09
167	Max	4	SLE Q	-1345.54	2	SLE R	-287.65	1	SLU	115841.00	1	SLU	1151.55	1	SLU	1374.95	1	SLU	-12.10
167	Min	1	SLU	-3125.23	4	SLE Q	-372.16	4	SLE Q	73141.10	4	SLE Q	699.81	4	SLE Q	745.68	1	SLU	-104.03
168	Max	4	SLE Q	-8865.27	1	SLU	23330.00	1	SLU	123129.00	4	SLE Q	-7919.11	4	SLE Q	-24.93	1	SLU	151.18
168	Min	1	SLU	-15006.10	4	SLE Q	14170.90	4	SLE Q	78895.40	1	SLU	-12516.00	4	SLE Q	-559.52	1	SLU	-110.91

Verifiche e armature travi

Simbologia

$\Delta_{sm}$	=Distanza media tra le fessure
$\Delta\%$	=Incremento percentuale sicurezza
$\Phi_{eq}$	=Diametro equivalente delle barre
$\epsilon_{sm}$	=Deformazione unitaria media dell'armatura (*1000)
$\sigma_c$	=Tensione nel calcestruzzo
$\sigma_r$ inf	=Tensione nel ferro - inferiore
$\sigma_r$ sup	=Tensione nel ferro - superiore
$\sigma_s$	=Tensione nell'acciaio nella sezione fessurata
$A_c$ eff	=Area di calcestruzzo efficace
$A_s$	=Area complessiva dei ferri nell'area di calcestruzzo efficace
AfE I	=Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfE S	=Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE St.	=Area di ferro effettiva della staffatura (d'anima per travi a T o L)
AfE St. ala	=Area di ferro effettiva della staffatura d'ala
AfEP I	=Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, inferiore
AfEP S	=Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, superiore
AfT St. ala	=Area di ferro teorica della staffatura d'ala
B	=Base
CC	=Combinazione delle condizioni di carico elementari
c	= momento fittizio in campata
a	= momento fittizio agli appoggi
T	= momento traslato per taglio
e	= eccentricità aggiuntiva in caso di compressione o pressoflessione
TG	= taglio da gerarchia delle resistenze
TGND	= taglio non dissipativo limitante la gerarchia
TG (Li)	= taglio da gerarchia delle resistenze, limite inferiore
TG (Ls)	= taglio da gerarchia delle resistenze, limite superiore
Caso	=Caso di verifica
Cf inf	=Copriferro inferiore
Cf sup	=Copriferro superiore
El	=Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
Fcd	=Resistenza di calcolo a compressione del calcestruzzo
Fcd (Tag)	=Resistenza di calcolo a compressione del calcestruzzo per verifica a taglio
Fcm	=Resistenza media
Fctd	=Resistenza di calcolo a trazione del calcestruzzo
Fctm	=Resistenza media a trazione
Fyd	=Resistenza di calcolo dell'acciaio
Fyd (Tag)	=Resistenza di calcolo dell'acciaio per verifica a taglio
Fym	=Tensione media di snervamento
H	=Altezza
In	=Codice identificativo della travata facente parte dell'involuppo
K <sub>2</sub>	=Coefficiente per distribuzione deformazioni
Lung.	=Lunghezza del tratto di progettazione
MRedy	=Momento resistente allo stato limite ultimo intorno all'asse Y
My	=Momento flettente intorno all'asse Y
Sez.	=Numero della sezione
Sic.	=Sicurezza
Staff.	=Staffatura adottata
TCC	=Tipo di combinazione di carico
SLU	= Stato limite ultimo
SLE R	= Stato limite d'esercizio, combinazione rara
SLE F	= Stato limite d'esercizio, combinazione frequente
SLE Q	= Stato limite d'esercizio, combinazione quasi permanente
Tipo	=Tipologia
L	= Sezione a L
Ldx	= L destra
R	= Rettangolare
Rc	= Rettangolare cava
T	= Sezione a T
VRcd	=Taglio ultimo lato calcestruzzo
VRsd	=Taglio ultimo lato armatura
Vrdu	=Taglio ultimo resistente
Vsdu	=Taglio agente nella direzione del momento ultimo
Wk	=Ampiezza caratteristica delle fessure
X	=Coordinata progressiva rispetto al nodo iniziale
X0	=Coordinata progressiva (dal nodo iniziale) dell'inizio del tratto
X1	=Coordinata progressiva (dal nodo iniziale) della fine del tratto
Xg	=Coordinata progressiva (dal primo nodo) in cui viene effettuato il progetto/verifica
b	=Base inferiore



Relazione di calcolo

bw	=Larghezza membratura resistente al taglio
c	=Ricoprimento dell'armatura
ctgθ	=Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
h	=Altezza parte inf.
s	=Distanza massima tra le barre

Travata n. 10024

Nodi: 999 1055 -3323 1044

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-996.89	-13043.50	13.084

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.32	2	SLE R	3	52.50	6.16	3.08	-626.74	183.32	-71.15	5.77
3.32	4	SLE Q	3	52.50	6.16	3.08	-209.69	61.33	-23.81	1.93

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
4	3.32	4	SLE Q	3	16	52.50	84.87	28.00	94.00	0.50	14.00	119.66	3.08	140.00	47.95	0.01	0.00
5	3.32	3	SLE F	3	16	52.50	-328.57	28.00	31.33	0.50	14.00	87.83	6.16	140.00	96.10	0.03	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.	
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>		
1	SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1760.96	2.50	7619.38	26714.30	7619.38	4.327
1	SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1760.96	2.50	7619.38	26714.30	7619.38	4.327
1	SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	1734.72	2.50	15238.80	26714.30	15238.80	8.785

Travata n. 10035

Nodi: 1001 1057 -3326 1051

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-1346.33	-13043.50	9.688

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.32	2	SLE R	3	52.50	6.16	3.08	-887.37	259.55	-100.74	8.17
3.32	4	SLE Q	3	52.50	6.16	3.08	-430.09	125.80	-48.83	3.96

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-430.09	28.00	31.33	0.50	14.00	87.83	6.16	140.00	125.80	0.04	0.01
4	3.32	3	SLE F	3	16	52.50	-560.37	28.00	31.33	0.50	14.00	87.83	6.16	140.00	163.91	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1549.31	2.50	7619.38	26714.30	7619.38	4.918
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1549.31	2.50	7619.38	26714.30	7619.38	4.918
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2106.24	2.50	15238.80	26714.30	15238.80	7.235

Travata n. 11021

Nodi: 1161 -3465 -3531 -3619 -3730 1108



Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.901	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	-780.81	-1506.47	1.929

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.902	SLE R	5	0.00	3.08	3.08	-576.42	1528.74	-361.17	64.17	
1.904	SLE Q	5	0.00	3.08	3.08	-483.61	1282.60	-303.01	53.84	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	19	0.00	-483.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1282.60	0.44	0.07	
4	1.903	SLE F	5	19	0.00	-510.12	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1352.90	0.39	0.06	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	324.52	2.50	7185.75	7873.13	7185.75
1	SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	341.48	2.50	7185.75	7873.13	7185.75

Travata n. 11022

Nodi: 1162 -3510 -3597 1177 1109

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.901	SLU	4	70.00	3.08	3.08	3.08	3.08	3.08	-627.34	-1506.47	2.401

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.902	SLE R	4	70.00	3.08	3.08	-460.46	1221.22	-288.51	51.26	
1.904	SLE Q	4	70.00	3.08	3.08	-388.18	1029.50	-243.22	43.21	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	4	19	70.00	-388.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1029.50	0.32	0.05	
4	1.903	SLE F	4	19	70.00	-408.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1084.27	0.32	0.05	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	647.17	2.50	7185.75	7873.13	7185.75
1	SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	664.13	2.50	7185.75	7873.13	7185.75

Travata n. 11023

Nodi: 1163 -3511 -3598 1178 -3806 1110

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.901	SLU	5	35.06	6.03	4.02	6.03	4.02	4.02	-8531.95	-9551.64	1.120

Stato limite d'esercizio - Verifiche tensionali



Relazione di calcolo

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.06	6.03	4.02	-6301.88	2466.40	-685.97	62.84
1.90	4	SLE Q	5	35.06	6.03	4.02	-5727.48	2241.59	-623.45	57.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.06	-5727.48	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2241.59	0.93	0.20
4	1.90	3	SLE F	5	30	35.06	-5891.60	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2305.82	0.88	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<mm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4115.34	2.50	10241.80	20904.00	10241.80	2.489
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5768.18	2.50	10241.80	20904.00	10241.80	1.776

Travata n. 11024

Nodi: 1189 -4003 1199 1144

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R		18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-285.08	-2142.71	7.516

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-198.34	361.30	-96.89	12.75
4.82	4	SLE Q	3	332.00	3.08	3.08	-138.98	253.17	-67.89	8.93

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-138.98	28.00	114.00	0.50	14.00	102.12	3.08	101.43	253.17	0.07	0.01
4	4.82	3	SLE F	3	18	332.00	-155.87	28.00	114.00	0.50	14.00	102.12	3.08	101.43	283.93	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<mm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	3029.38	2.50	7619.38	26714.30	7619.38	2.515
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	376.33	2.50	5079.58	10017.90	5079.58	13.498
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	405.11	2.50	5079.58	10017.90	5079.58	12.539

Travata n. 11027

Nodi: 1192 -4007 1200 1145

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R		18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-261.10	-2142.71	8.207

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-183.95	335.08	-89.86	11.82
4.82	4	SLE Q	3	332.00	3.08	3.08	-132.09	240.62	-64.53	8.49

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>				<cmq>	<cmq>			<mm>



Relazione di calcolo

												<mm>			<daN/cm<sup>q</sup>>		
3	4.82	4	SLE Q	3	18	332.00	-132.09	28.00	114.00	0.50	14.00	102.12	3.08	101.43	240.62	0.07	0.01
4	4.82	3	SLE F	3	18	332.00	-146.88	28.00	114.00	0.50	14.00	102.12	3.08	101.43	267.56	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0<sup>m</sup></sup>	X1<sup>m</sup></sup>	Lung.<sup>m</sup></sup>	Staff.	AfE St.<sup>cm</sup>q/m</sup></sup>	bw<sup>cm</sup></sup>	Vsdu<sup>daN</sup></sup>	ctgθ	VRsd<sup>daN</sup></sup>	VRcd<sup>daN</sup></sup>	Vrdu<sup>daN</sup></sup>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2830.03	2.50	7619.38	26714.30	7619.38	2.692
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	344.23	2.50	5079.58	10017.90	5079.58	14.756
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	373.01	2.50	5079.58	10017.90	5079.58	13.618

Travata n. 11028

Nodi: 1164 -3512 -3599 1179 -3807 1111

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B<sup>cm</sup></sup>	H<sup>cm</sup></sup>	Cf sup<sup>cm</sup></sup>	Cf inf<sup>cm</sup></sup>	Fcm<sup>daN</sup>/cm<sup>q</sup></sup>	Fctm<sup>daN</sup>/cm<sup>q</sup></sup>	Fcd<sup>daN</sup>/cm<sup>q</sup></sup>	Fcd (Tag)<sup>daN</sup>/cm<sup>q</sup></sup>	Fctd<sup>daN</sup>/cm<sup>q</sup></sup>	Fym<sup>daN</sup>/cm<sup>q</sup></sup>	Fyd<sup>daN</sup>/cm<sup>q</sup></sup>	Fyd (Tag)<sup>daN</sup>/cm<sup>q</sup></sup>
30R		30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg<sup>m</sup></sup>	CC	TCC	El	X<sup>cm</sup></sup>	AfE S<sup>cm</sup>q</sup></sup>	AfE I<sup>cm</sup>q</sup></sup>	AfEP S<sup>cm</sup>q</sup></sup>	AfEP I<sup>cm</sup>q</sup></sup>	My<sup>daNm</sup></sup>	MRdy<sup>daNm</sup></sup>	Sic.
1.901	1	SLU	5	35.09	6.03	4.02	6.03	4.02	-8500.13	-9551.64	1.124

Stato limite d'esercizio - Verifiche tensionali

Xg<sup>m</sup></sup>	CC	TCC	El	X<sup>cm</sup></sup>	AfE S<sup>cm</sup>q</sup></sup>	AfE I<sup>cm</sup>q</sup></sup>	My<sup>daNm</sup></sup>	σ<sub>f</sub> sup<sup>daN</sup>/cm<sup>q</sup></sup>	σ<sub>f</sub> inf<sup>daN</sup>/cm<sup>q</sup></sup>	σ<sub>c</sub><sup>daN</sup>/cm<sup>q</sup></sup>
1.902		SLE R	5	35.09	6.03	4.02	-6277.88	2457.00	-683.36	62.60
1.904		SLE Q	5	35.09	6.03	4.02	-5706.36	2233.33	-621.15	56.90

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg<sup>m</sup></sup>	CC	TCC	El	Sez.	X<sup>cm</sup></sup>	My<sup>daNm</sup></sup>	c<sup>mm</sup></sup>	s<sup>mm</sup></sup>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <sup>mm</sup></sup>	A <sub>s</sub> <sup>cm</sup>q</sup></sup>	A <sub>c eff</sub> <sup>cm</sup>q</sup></sup>	σ <sub>s</sub> <sup>daN</sup>/cm<sup>q</sup></sup>	ε <sub>sm</sub>	Wk<sup>mm</sup></sup>
3	1.904		SLE Q	5	30	35.09	-5706.36	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2233.33	0.92	0.19
4	1.903		SLE F	5	30	35.09	-5869.67	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2297.24	0.88	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0<sup>m</sup></sup>	X1<sup>m</sup></sup>	Lung.<sup>m</sup></sup>	Staff.	AfE St.<sup>cm</sup>q/m</sup></sup>	bw<sup>cm</sup></sup>	Vsdu<sup>daN</sup></sup>	ctgθ	VRsd<sup>daN</sup></sup>	VRcd<sup>daN</sup></sup>	Vrdu<sup>daN</sup></sup>	Sic.
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4106.18	2.50	10241.80	20904.00	10241.80	2.494
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5720.80	2.50	10241.80	20904.00	10241.80	1.790

Travata n. 11029

Nodi: 1165 -3513 -3600 1180 1112

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B<sup>cm</sup></sup>	H<sup>cm</sup></sup>	Cf sup<sup>cm</sup></sup>	Cf inf<sup>cm</sup></sup>	Fcm<sup>daN</sup>/cm<sup>q</sup></sup>	Fctm<sup>daN</sup>/cm<sup>q</sup></sup>	Fcd<sup>daN</sup>/cm<sup>q</sup></sup>	Fcd (Tag)<sup>daN</sup>/cm<sup>q</sup></sup>	Fctd<sup>daN</sup>/cm<sup>q</sup></sup>	Fym<sup>daN</sup>/cm<sup>q</sup></sup>	Fyd<sup>daN</sup>/cm<sup>q</sup></sup>	Fyd (Tag)<sup>daN</sup>/cm<sup>q</sup></sup>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg<sup>m</sup></sup>	CC	TCC	El	X<sup>cm</sup></sup>	AfE S<sup>cm</sup>q</sup></sup>	AfE I<sup>cm</sup>q</sup></sup>	AfEP S<sup>cm</sup>q</sup></sup>	AfEP I<sup>cm</sup>q</sup></sup>	My<sup>daNm</sup></sup>	MRdy<sup>daNm</sup></sup>	Sic.
1.901	1	SLU	4	70.00	3.08	3.08	3.08	3.08	-622.82	-1506.47	2.419

Stato limite d'esercizio - Verifiche tensionali

Xg<sup>m</sup></sup>	CC	TCC	El	X<sup>cm</sup></sup>	AfE S<sup>cm</sup>q</sup></sup>	AfE I<sup>cm</sup>q</sup></sup>	My<sup>daNm</sup></sup>	σ<sub>f</sub> sup<sup>daN</sup>/cm<sup>q</sup></sup>	σ<sub>f</sub> inf<sup>daN</sup>/cm<sup>q</sup></sup>	σ<sub>c</sub><sup>daN</sup>/cm<sup>q</sup></sup>
1.902		SLE R	4	70.00	3.08	3.08	-456.88	1211.73	-286.27	50.86
1.904		SLE Q	4	70.00	3.08	3.08	-384.90	1020.82	-241.17	42.85

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg<sup>m</sup></sup>	CC	TCC	El	Sez.	X<sup>cm</sup></sup>	My<sup>daNm</sup></sup>	c<sup>mm</sup></sup>	s<sup>mm</sup></sup>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <sup>mm</sup></sup>	A <sub>s</sub> <sup>cm</sup>q</sup></sup>	A <sub>c eff</sub> <sup>cm</sup>q</sup></sup>	σ <sub>s</sub> <sup>daN</sup>/cm<sup>q</sup></sup>	ε <sub>sm</sub>	Wk<sup>mm</sup></sup>
3	1.904		SLE Q	4	19	70.00	-384.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1020.82	0.31	0.05
4	1.903		SLE F	4	19	70.00	-405.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1075.36	0.31	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0<sup>m</sup></sup>	X1<sup>m</sup></sup>	Lung.<sup>m</sup></sup>	Staff.	AfE St.<sup>cm</sup>q/m</sup></sup>	bw<sup>cm</sup></sup>	Vsdu<sup>daN</sup></sup>	ctgθ	VRsd<sup>daN</sup></sup>	VRcd<sup>daN</sup></sup>	Vrdu<sup>daN</sup></sup>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	644.25	2.50	7185.75	7873.13	7185.75	11.154
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	661.22	2.50	7185.75	7873.13	7185.75	10.867



Travata n. 11032

Nodi: 1167 -3475 -3542 -3611 -3736 1115

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	38.00	3.08	3.08	3.08	3.08	3.08	-776.07	-1506.47	1.941

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	38.00	3.08	3.08	-573.09	1519.91	-359.08	63.80	
1.904	SLE Q	5	38.00	3.08	3.08	-481.05	1275.81	-301.41	53.55	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	19	38.00	-481.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1275.81	0.44	0.07	
4	1.903	SLE F	5	19	38.00	-507.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1345.55	0.39	0.06	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	303.22	2.50	7185.75	7873.13	7185.75	23.698
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	320.19	2.50	7185.75	7873.13	7185.75	22.442

Travata n. 11033

Nodi: 1168 -3514 -3601 1181 -3809 1116

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.44	3.08	3.08	3.08	3.08	3.08	-646.37	-1506.47	2.331

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.44	3.08	3.08	-474.32	1257.96	-297.19	52.80	
1.904	SLE Q	5	35.44	3.08	3.08	-398.77	1057.60	-249.86	44.39	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	19	35.44	-398.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1057.60	0.33	0.05	
4	1.903	SLE F	5	19	35.44	-420.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1114.84	0.32	0.05	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	679.98	2.50	7185.75	7873.13	7185.75	10.568
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	696.94	2.50	7185.75	7873.13	7185.75	10.310

Travata n. 11035

Nodi: 1193 -4008 1201 1151

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94



Relazione di calcolo

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-331.81	-2142.71	6.458

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R	3	332.00	3.08	3.08	-233.18	424.76	-113.91	14.99	
4.824	SLE Q	3	332.00	3.08	3.08	-168.44	306.84	-82.29	10.83	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q	3	18	332.00	-168.44	28.00	114.00	0.50	14.00	102.12	3.08	101.43	306.84	0.09	0.02	
4	4.823	SLE F	3	18	332.00	-186.85	28.00	114.00	0.50	14.00	102.12	3.08	101.43	340.38	0.10	0.02	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2852.45	2.50	7619.38	26714.30	7619.38	2.671
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	395.56	2.50	5079.58	10017.90	5079.58	12.842
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	424.34	2.50	5079.58	10017.90	5079.58	11.971

Travata n. 11036

Nodi: 1169 -3515 -3602 1182 -3810 1117

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.43	6.03	4.02	6.03	4.02	4.02	-8383.58	-9551.64	1.139

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.43	6.03	4.02	-6191.39	2423.15	-673.94	61.74	
1.904	SLE Q	5	35.43	6.03	4.02	-5628.25	2202.75	-612.64	56.12	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cm q>		<mm>
3	1.904	SLE Q	5	30	35.43	-5628.25	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2202.75	0.91	0.19	
4	1.903	SLE F	5	30	35.43	-5789.15	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2265.73	0.86	0.18	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4080.73	2.50	10241.80	20904.00	10241.80	2.510
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5584.35	2.50	10241.80	20904.00	10241.80	1.834

Travata n. 11040

Nodi: 1170 -3516 -3603 1183 -3811 1118

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.41	6.03	4.02	6.03	4.02	4.02	-8322.59	-9551.64	1.148

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.41	6.03	4.02	-6146.99	2405.77	-669.11	61.29	
1.904	SLE Q	5	35.41	6.03	4.02	-5588.67	2187.26	-608.34	55.73	



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.41	-5588.67	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2187.26	0.90	0.19
4	1.90	3	SLE F	5	30	35.41	-5748.19	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2249.70	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.38	1.38	ø6/18 2 br.	3.14	0.30	4010.99	2.50	10241.80	20904.00	10241.80	2.553
1 SLU	1.38	1.90	0.52	ø6/18 2 br.	3.14	0.30	5564.59	2.50	10241.80	20904.00	10241.80	1.841

Travata n. 11041

Nodi: 1196 -4012 1202 1152

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-284.13	-2142.71	7.541

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-201.46	366.98	-98.42	12.95
4.82	4	SLE Q	3	332.00	3.08	3.08	-146.84	267.48	-71.73	9.44

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-146.84	28.00	114.00	0.50	14.00	102.12	3.08	101.43	267.48	0.08	0.01
4	4.82	3	SLE F	3	18	332.00	-162.41	28.00	114.00	0.50	14.00	102.12	3.08	101.43	295.85	0.09	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2688.87	2.50	7619.38	26714.30	7619.38	2.834
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	352.04	2.50	5079.58	10017.90	5079.58	14.429
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	380.82	2.50	5079.58	10017.90	5079.58	13.338

Travata n. 11042

Nodi: 1171 -3517 -3604 1184 -3812 1119

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.43	3.08	3.08	3.08	3.08	-624.73	-1506.47	2.411

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-459.42	1218.46	-287.86	51.14
1.90	4	SLE Q	5	35.43	3.08	3.08	-384.04	1018.54	-240.63	42.75

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.43	-384.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1018.54	0.31	0.05
4	1.90	3	SLE F	5	19	35.43	-405.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1075.66	0.31	0.05

Stato limite ultimo - Verifiche a taglio



Relazione di calcolo

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	660.17	2.50	7185.75	7873.13	7185.75	10.885
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	677.14	2.50	7185.75	7873.13	7185.75	10.612

Travata n. 11070

Nodi: 1200 1056 -3325 1045

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	3.08	-1030.70	-6639.53	6.442

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
3.322	SLE R	3	52.50	3.08	3.08	-633.41	360.99	-83.92	7.38	
3.324	SLE Q	3	52.50	3.08	3.08	-187.56	106.89	-24.85	2.19	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	3.324	SLE Q	3	16	52.50	-187.56	28.00	94.00	0.50	14.00	119.66	3.08	140.00	106.89	0.03	0.01	
5	3.323	SLE F	3	16	52.50	-314.35	28.00	94.00	0.50	14.00	119.66	3.08	140.00	179.15	0.05	0.01	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1916.65	2.50	7619.38	26714.30	7619.38	3.975
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2675.84	2.50	7619.38	26714.30	7619.38	2.847
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	1913.82	2.50	15238.80	26714.30	15238.80	7.962

Travata n. 11084

Nodi: 1202 1058 -3328 1052

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	3.08	-1344.99	-6639.53	4.936

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
3.322	SLE R	3	52.50	3.08	3.08	-870.87	496.32	-115.38	10.15	
3.324	SLE Q	3	52.50	3.08	3.08	-386.92	220.51	-51.26	4.51	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	3.324	SLE Q	3	16	52.50	-386.92	28.00	94.00	0.50	14.00	119.66	3.08	140.00	220.51	0.06	0.01	
5	3.323	SLE F	3	16	52.50	-524.51	28.00	94.00	0.50	14.00	119.66	3.08	140.00	298.93	0.09	0.02	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1727.13	2.50	7619.38	26714.30	7619.38	4.412
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2486.32	2.50	7619.38	26714.30	7619.38	3.065
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2241.69	2.50	15238.80	26714.30	15238.80	6.798

Travata n. 11088

Nodi: 1177 -3696 -3697 -3698 -3699 -3700 -3701 -3702 1178



Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-151.17	-1506.47	9.965
1.80	1	SLU	5	20.00	3.08	3.08	3.08	3.08	79.93	1506.47	18.847
3.20	1	SLU	8	40.00	3.08	3.08	3.08	3.08	-110.48	-1506.47	13.635

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-108.63	288.09	-68.06	12.09
0.00	4	SLE Q	1	0.00	3.08	3.08	-97.86	259.53	-61.31	10.89
1.80	2	SLE R	5	20.00	3.08	3.08	55.82	-34.97	148.03	6.21
1.80	4	SLE Q	5	20.00	3.08	3.08	49.34	-30.91	130.85	5.49
3.20	2	SLE R	8	40.00	3.08	3.08	-78.25	207.54	-49.03	8.71
3.20	4	SLE Q	8	40.00	3.08	3.08	-56.36	149.48	-35.31	6.27

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-97.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	259.53	0.08	0.01
4	0.00	3	SLE F	1	19	0.00	-100.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	267.72	0.08	0.01
7	1.80	4	SLE Q	5	19	20.00	49.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	130.85	0.04	0.01
8	1.80	3	SLE F	5	19	20.00	51.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	135.72	0.04	0.01
11	3.20	4	SLE Q	8	19	40.00	-56.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	149.48	0.04	0.01
12	3.20	3	SLE F	8	19	40.00	-62.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	166.03	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm²/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	547.33	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	3.06	2.91	ø6/ 8 2 br.	7.07	0.20	547.33	2.50	7185.75	7873.13	7185.75
1	SLU	3.06	3.20	0.14	ø6/ 8 2 br.	7.07	0.20	263.55	2.50	7185.75	7873.13	7185.75

Travata n. 11130

Nodi: 1161 -3385 -3386 -3387 -3388 -3389 -3390 -3391 -3392 1162

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	33.52	1506.47	44.948
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	141.12	1506.47	10.675
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	29.36	1506.47	51.308

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	24.67	-15.46	65.43	2.75
0.00	4	SLE Q	1	0.00	3.08	3.08	21.41	-13.41	56.78	2.38
1.44	2	SLE R	5	0.00	3.08	3.08	102.61	-64.29	272.14	11.42
1.44	4	SLE Q	5	0.00	3.08	3.08	84.84	-53.16	225.01	9.44
3.25	2	SLE R	9	36.11	3.08	3.08	21.69	-13.59	57.53	2.41
3.25	4	SLE Q	9	36.11	3.08	3.08	18.70	-11.72	49.60	2.08

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	21.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.78	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	22.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.25	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	84.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	225.01	0.07	0.01
8	1.44	3	SLE F	5	19	0.00	89.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	238.47	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	18.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	49.60	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	19.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.86	0.02	0.00

Stato limite ultimo - Verifiche a taglio



Relazione di calcolo

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	183.96	2.50	7185.75	7873.13	7185.75	39.062
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	78.83	2.50	7185.75	7873.13	7185.75	91.155
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	199.47	2.50	7185.75	7873.13	7185.75	36.024

Travata n. 11131

Nodi: 1179 -3703 -3704 -3705 -3706 -3707 -3708 -3709 1180

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE <cmq>	S AfE <cmq>	I AfE <cmq>	P S AfE <cmq>	I AfE <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	3.08	-115.23	-1506.47	13.073
1.191	SLU	4	0.00	3.08	3.08	3.08	3.08	3.08	3.08	73.06	1506.47	20.620
3.181	SLU	8	39.75	3.08	3.08	3.08	3.08	3.08	3.08	-152.61	-1506.47	9.872

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.002	SLE	R	1	0.00	3.08	3.08	-81.92	217.27	-51.33	9.12
0.004	SLE	Q	1	0.00	3.08	3.08	-59.66	158.22	-37.38	6.64
1.192	SLE	R	4	0.00	3.08	3.08	50.67	-31.75	134.37	5.64
1.194	SLE	Q	4	0.00	3.08	3.08	44.70	-28.01	118.54	4.98
3.182	SLE	R	8	39.75	3.08	3.08	-109.76	291.11	-68.77	12.22
3.184	SLE	Q	8	39.75	3.08	3.08	-99.17	263.00	-62.13	11.04

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c off</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-59.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	158.22	0.05	0.01
4	0.003	SLE	F	1	19	0.00	-66.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	175.05	0.05	0.01
7	1.194	SLE	Q	4	19	0.00	44.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	118.54	0.03	0.01
8	1.193	SLE	F	4	19	0.00	46.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	122.75	0.04	0.01
11	3.184	SLE	Q	8	19	39.75	-99.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	263.00	0.08	0.01
12	3.183	SLE	F	8	19	39.75	-102.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	271.06	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	265.56	2.50	7185.75	7873.13	7185.75	27.059
1 SLU	0.14	3.04	2.89	ø6/ 8 2 br.	7.07	0.20	541.91	2.50	7185.75	7873.13	7185.75	13.260
1 SLU	3.04	3.18	0.14	ø6/ 8 2 br.	7.07	0.20	541.91	2.50	7185.75	7873.13	7185.75	13.260

Travata n. 11173

Nodi: 1163 -3393 -3394 -3395 -3396 -3397 -3398 -3399 1164

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE <cmq>	S AfE <cmq>	I AfE <cmq>	P S AfE <cmq>	I AfE <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	3.08	-192.63	-1506.47	7.821
1.501	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	3.08	238.40	1506.47	6.319
3.001	SLU	8	37.50	3.08	3.08	3.08	3.08	3.08	3.08	-189.42	-1506.47	7.953

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-146.48	388.50	-91.78	16.31
0.00	4	SLE Q	1	0.00	3.08	3.08	-137.59	364.91	-86.21	15.32
1.50	2	SLE R	5	0.00	3.08	3.08	179.03	-112.18	474.82	19.93
1.50	4	SLE Q	5	0.00	3.08	3.08	163.55	-102.48	433.77	18.21
3.00	2	SLE R	8	37.50	3.08	3.08	-144.08	382.12	-90.28	16.04
3.00	4	SLE Q	8	37.50	3.08	3.08	-135.52	359.43	-84.91	15.09

Stato limite d'esercizio - Verifiche a fessurazione



Relazione di calcolo

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-137.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	364.91	0.11	0.02
4	0.00	3	SLE F	1	19	0.00	-140.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	371.64	0.11	0.02
7	1.50	4	SLE Q	5	19	0.00	163.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	433.77	0.13	0.02
8	1.50	3	SLE F	5	19	0.00	167.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	445.50	0.13	0.02
11	3.00	4	SLE Q	8	19	37.50	-135.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	359.43	0.10	0.02
12	3.00	3	SLE F	8	19	37.50	-137.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	365.90	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	886.71	2.50	7185.75	7873.13	7185.75	8.104
1 SLU	0.14	2.85	2.71	ø6/ 8 2 br.	7.07	0.20	586.99	2.50	7185.75	7873.13	7185.75	12.242
1 SLU	2.85	3.00	0.14	ø6/ 8 2 br.	7.07	0.20	885.28	2.50	7185.75	7873.13	7185.75	8.117

Travata n. 11174

Nodi: 1181 -3710 -3711 -3712 -3713 -3714 -3715 -3716 -3717 1182

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-153.69	-1506.47	9.802
1.81	1	SLU	5	36.11	3.08	3.08	3.08	3.08	93.73	1506.47	16.072
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-114.33	-1506.47	13.176

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-110.30	292.53	-69.11	12.28
0.00	4	SLE Q	1	0.00	3.08	3.08	-99.04	262.68	-62.06	11.03
1.81	2	SLE R	5	36.11	3.08	3.08	65.32	-40.93	173.23	7.27
1.81	4	SLE Q	5	36.11	3.08	3.08	56.78	-35.58	150.58	6.32
3.25	2	SLE R	9	36.11	3.08	3.08	-81.04	214.94	-50.78	9.02
3.25	4	SLE Q	9	36.11	3.08	3.08	-58.79	155.91	-36.83	6.54

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-99.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	262.68	0.08	0.01
4	0.00	3	SLE F	1	19	0.00	-102.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	271.24	0.08	0.01
7	1.81	4	SLE Q	5	19	36.11	56.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	150.58	0.04	0.01
8	1.81	3	SLE F	5	19	36.11	59.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	157.06	0.05	0.01
11	3.25	4	SLE Q	9	19	36.11	-58.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.91	0.05	0.01
12	3.25	3	SLE F	9	19	36.11	-65.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	172.74	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	636.92	2.50	7185.75	7873.13	7185.75	11.282
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	636.92	2.50	7185.75	7873.13	7185.75	11.282
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	275.85	2.50	7185.75	7873.13	7185.75	26.049

Travata n. 11216

Nodi: 1165 -3400 -3401 -3402 -3403 -3404 -3405 -3406 -3407 1166

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	28.65	1506.47	52.584
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	141.97	1506.47	10.611
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	34.63	1506.47	43.497

Stato limite d'esercizio - Verifiche tensionali



Relazione di calcolo

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cmq>	$\sigma_f$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	21.17	-13.26	56.15	2.36
0.00	4	SLE Q	1	0.00	3.08	3.08	18.24	-11.43	48.39	2.03
1.62	2	SLE R	5	18.06	3.08	3.08	103.35	-64.75	274.10	11.50
1.62	4	SLE Q	5	18.06	3.08	3.08	85.66	-53.67	227.17	9.54
3.25	2	SLE R	9	36.11	3.08	3.08	25.55	-16.01	67.75	2.84
3.25	4	SLE Q	9	36.11	3.08	3.08	22.24	-13.94	59.00	2.48

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	18.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	48.39	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	19.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	50.60	0.01	0.00
7	1.62	4	SLE Q	5	19	18.06	85.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	227.17	0.07	0.01
8	1.62	3	SLE F	5	19	18.06	90.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	240.57	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	22.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.00	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	23.19	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.50	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	198.03	2.50	7185.75	7873.13	7185.75	36.286
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	77.39	2.50	7185.75	7873.13	7185.75	92.851
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	185.44	2.50	7185.75	7873.13	7185.75	38.750

Travata n. 11217

Nodi: 1183 -3718 -3719 -3720 -3721 -3722 -3723 -3724 -3725 1184

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50		28.35	262.44	174.96	15.75	4300.00	3583.33
												3115.94	

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-109.12	-1506.47	13.805
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	94.50	1506.47	15.941
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-130.51	-1506.47	11.543

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cmq>	$\sigma_f$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-77.49	205.52	-48.55	8.63
0.00	4	SLE Q	1	0.00	3.08	3.08	-55.91	148.29	-35.03	6.22
1.44	2	SLE R	5	0.00	3.08	3.08	65.80	-41.23	174.50	7.32
1.44	4	SLE Q	5	0.00	3.08	3.08	56.94	-35.67	151.00	6.34
3.23	2	SLE R	9	35.89	3.08	3.08	-93.89	249.00	-58.83	10.45
3.23	4	SLE Q	9	35.89	3.08	3.08	-86.48	229.35	-54.18	9.63

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-55.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	148.29	0.04	0.01
4	0.00	3	SLE F	1	19	0.00	-62.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	164.62	0.05	0.01
7	1.44	4	SLE Q	5	19	0.00	56.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	151.00	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	59.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	157.70	0.05	0.01
11	3.23	4	SLE Q	9	19	35.89	-86.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	229.35	0.07	0.01
12	3.23	3	SLE F	9	19	35.89	-88.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	235.09	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	272.14	2.50	7185.75	7873.13	7185.75	26.405
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	639.45	2.50	7185.75	7873.13	7185.75	11.237
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	639.45	2.50	7185.75	7873.13	7185.75	11.237

Travata n. 11259

Nodi: 1167 -3408 -3409 -3410 -3411 -3412 -3413 -3414 -3415 1168

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
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Relazione di calcolo

19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
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Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	33.19	1506.47	45.389
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	142.25	1506.47	10.590
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	30.30	1506.47	49.725

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	24.47	-15.33	64.89	2.72
0.00	4	SLE Q	1	0.00	3.08	3.08	21.26	-13.32	56.39	2.37
1.44	2	SLE R	5	0.00	3.08	3.08	103.54	-64.87	274.60	11.53
1.44	4	SLE Q	5	0.00	3.08	3.08	85.76	-53.73	227.45	9.55
3.25	2	SLE R	9	36.11	3.08	3.08	22.39	-14.03	59.38	2.49
3.25	4	SLE Q	9	36.11	3.08	3.08	19.33	-12.11	51.26	2.15

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	21.26	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.39	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	22.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	58.82	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	85.76	28.00	134.00	0.50	14.00	93.58	3.08	82.65	227.45	0.07	0.01
8	1.44	3	SLE F	5	19	0.00	90.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	240.91	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	19.33	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.26	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	20.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.58	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	183.73	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	79.54	2.50	7185.75	7873.13	7185.75
1	SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	200.18	2.50	7185.75	7873.13	7185.75

Travata n. 11302

Nodi: 1169 -3416 -3417 -3418 -3419 -3420 -3421 -3422 1170

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-187.06	-1506.47	8.053
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	225.55	1506.47	6.679
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-180.76	-1506.47	8.334

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-142.16	377.04	-89.08	15.83
0.00	4	SLE Q	1	0.00	3.08	3.08	-133.47	353.99	-83.63	14.86
1.45	2	SLE R	5	0.00	3.08	3.08	169.65	-106.30	449.93	18.89
1.45	4	SLE Q	5	0.00	3.08	3.08	155.31	-97.31	411.90	17.29
2.90	2	SLE R	8	36.25	3.08	3.08	-137.52	364.72	-86.17	15.31
2.90	4	SLE Q	8	36.25	3.08	3.08	-129.56	343.61	-81.18	14.42

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-133.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	353.99	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-135.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	360.57	0.11	0.02
7	1.45	4	SLE Q	5	19	0.00	155.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	411.90	0.12	0.02
8	1.45	3	SLE F	5	19	0.00	159.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	422.77	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-129.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	343.61	0.10	0.02
12	2.90	3	SLE F	8	19	36.25	-131.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	349.64	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	878.91	2.50	7185.75	7873.13	7185.75



Relazione di calcolo

1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	579.19	2.50	7185.75	7873.13	7185.75	12.406
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	873.30	2.50	7185.75	7873.13	7185.75	8.228

Travata n. 11345

Nodi: 1171 -3423 -3424 -3425 -3426 -3427 -3428 -3429 -3430 1172

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	34.27	1506.47	43.963
1.61	1	SLU	5	17.94	3.08	3.08	3.08	3.08	149.78	1506.47	10.058
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	33.73	1506.47	44.663

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	25.14	-15.75	66.66	2.80
0.00	4	SLE Q	1	0.00	3.08	3.08	21.61	-13.54	57.31	2.41
1.61	2	SLE R	5	17.94	3.08	3.08	108.75	-68.14	288.43	12.11
1.61	4	SLE Q	5	17.94	3.08	3.08	90.40	-56.64	239.76	10.06
3.23	2	SLE R	9	35.89	3.08	3.08	24.85	-15.57	65.91	2.77
3.23	4	SLE Q	9	35.89	3.08	3.08	21.71	-13.61	57.59	2.42

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	21.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.31	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	22.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.97	0.02	0.00
7	1.61	4	SLE Q	5	19	17.94	90.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	239.76	0.07	0.01
8	1.61	3	SLE F	5	19	17.94	95.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	253.64	0.07	0.01
11	3.23	4	SLE Q	9	19	35.89	21.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.59	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	22.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.97	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	200.39	2.50	7185.75	7873.13	7185.75	35.859
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	79.75	2.50	7185.75	7873.13	7185.75	90.107
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	185.35	2.50	7185.75	7873.13	7185.75	38.768

Travata n. 12024

Nodi: 1199 1255 -4088 1244

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-847.14	-13043.50	15.397

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.32	2	SLE R	3	52.50	6.16	3.08	-528.95	154.72	-60.05	4.87
3.32	4	SLE Q	3	52.50	6.16	3.08	-161.48	47.23	-18.33	1.49

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
5	3.32	4	SLE Q	3	16	52.50	134.62	28.00	94.00	0.50	14.00	119.66	3.08	140.00	76.06	0.02	0.00
7	3.32	3	SLE F	3	16	52.50	103.58	28.00	94.00	0.50	14.00	119.66	3.08	140.00	58.53	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	



Relazione di calcolo

1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1669.59	2.50	7619.38	26714.30	7619.38	4.564
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1669.59	2.50	7619.38	26714.30	7619.38	4.564
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	1676.26	2.50	15238.80	26714.30	15238.80	9.091

Travata n. 12035

Nodi: 1201 1257 -4091 1251

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-1181.05	-13043.50	11.044

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
3.32	2	SLE R	3	52.50	6.16	3.08	-777.09	227.29	-88.22	7.15
3.32	4	SLE Q	3	52.50	6.16	3.08	-371.95	108.79	-42.23	3.42

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-371.95	28.00	31.33	0.50	14.00	87.83	6.16	140.00	108.79	0.03	0.00
5	3.32	3	SLE F	3	16	52.50	-487.25	28.00	31.33	0.50	14.00	87.83	6.16	140.00	142.52	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1456.42	2.50	7619.38	26714.30	7619.38	5.232
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1456.42	2.50	7619.38	26714.30	7619.38	5.232
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2035.74	2.50	15238.80	26714.30	15238.80	7.486

Travata n. 13021

Nodi: 1361 -4223 -4296 -4384 -4501 1308

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.90	1	SLU	5	0.00	3.08	3.08	3.08	3.08	-805.82	-1506.47	1.869

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.90	2	SLE R	5	0.00	3.08	3.08	-594.40	1576.44	-372.43	66.17
1.90	4	SLE Q	5	0.00	3.08	3.08	-497.87	1320.43	-311.95	55.42

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	1.90	4	SLE Q	5	19	0.00	-497.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1320.43	0.46	0.07
4	1.90	3	SLE F	5	19	0.00	-525.43	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1393.52	0.41	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	397.37	2.50	7185.75	7873.13	7185.75	18.084
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	414.33	2.50	7185.75	7873.13	7185.75	17.343

Travata n. 13022

Nodi: 1362 -4275 -4362 1377 1309

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
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Relazione di calcolo

		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.90	1	SLU	4	70.00	3.08	3.08	3.08	3.08	-631.79	-1506.47	2.384

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.90	2	SLE R	4	70.00	3.08	3.08	-463.69	1229.78	-290.54	51.62
1.90	4	SLE Q	4	70.00	3.08	3.08	-390.98	1036.94	-244.98	43.52

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	1.90	4	SLE Q	4	19	70.00	-390.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1036.94	0.32	0.05
4	1.90	3	SLE F	4	19	70.00	-411.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1092.03	0.32	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	654.43	2.50	7185.75	7873.13	7185.75	10.980
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	671.39	2.50	7185.75	7873.13	7185.75	10.703

Travata n. 13023

Nodi: 1363 -4276 -4363 1378 -4571 1310

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.90	1	SLU	5	35.06	6.03	4.02	6.03	4.02	-8530.46	-9551.64	1.120

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.90	2	SLE R	5	35.06	6.03	4.02	-6300.89	2466.01	-685.86	62.83
1.90	4	SLE Q	5	35.06	6.03	4.02	-5723.76	2240.13	-623.04	57.07

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	1.90	4	SLE Q	5	30	35.06	-5723.76	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2240.13	0.93	0.19
4	1.90	3	SLE F	5	30	35.06	-5888.67	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2304.67	0.88	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4107.76	2.50	10241.80	20904.00	10241.80	2.493
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5743.84	2.50	10241.80	20904.00	10241.80	1.783

Travata n. 13024

Nodi: 1389 -4768 1399 1344

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-264.08	-2142.71	8.114

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
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Relazione di calcolo

<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R	3	332.00	3.08	3.08	-183.18		333.68	-89.49	11.77
4.824	SLE Q	3	332.00	3.08	3.08	-125.02		227.74	-61.08	8.04

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q	3	18	332.00	-125.02	28.00	114.00	0.50	14.00	102.12	3.08	101.43		227.74	0.07	0.01
4	4.823	SLE F	3	18	332.00	-141.55	28.00	114.00	0.50	14.00	102.12	3.08	101.43		257.85	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>		<m>		<cmq/m>	<m>	<daN>		<daN/cm>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2985.89	2.50	7619.38	26714.30	7619.38	2.552
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	362.80	2.50	5079.58	10017.90	5079.58	14.001
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	391.58	2.50	5079.58	10017.90	5079.58	12.972

Travata n. 13027

Nodi: 1392 -4772 1400 1345

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R		18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	-242.16	-2142.71	8.848	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R	3	332.00	3.08	3.08	-169.11		308.05	-82.61	10.87
4.824	SLE Q	3	332.00	3.08	3.08	-115.87		211.07	-56.60	7.45

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q	3	18	332.00	-115.87	28.00	114.00	0.50	14.00	102.12	3.08	101.43		211.07	0.06	0.01
4	4.823	SLE F	3	18	332.00	-131.03	28.00	114.00	0.50	14.00	102.12	3.08	101.43		238.69	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>		<m>		<cmq/m>	<m>	<daN>		<daN/cm>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2931.98	2.50	7619.38	26714.30	7619.38	2.599
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	337.81	2.50	5079.58	10017.90	5079.58	15.037
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	366.59	2.50	5079.58	10017.90	5079.58	13.856

Travata n. 13028

Nodi: 1364 -4277 -4364 1379 -4572 1311

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30R		30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.09	6.03	4.02	6.03	4.02	-8472.93	-9551.64	1.127	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.09	6.03	4.02	-6257.49		2449.02	-681.14	62.39
1.904	SLE Q	5	35.09	6.03	4.02	-5687.05		2225.77	-619.05	56.71

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	30	35.09	-5687.05	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2225.77	0.92	0.19



Relazione di calcolo

4	1.903	SLE F	5	30	35.09	-5850.05	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2289.56	0.87	0.18
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Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4095.44	2.50	10241.80	20904.00	10241.80	2.501
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5695.97	2.50	10241.80	20904.00	10241.80	1.798

Travata n. 13029

Nodi: 1365 -4278 -4365 1380 1312

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	4	70.00	3.08	3.08	3.08	3.08	3.08	-624.18	-1506.47	2.414

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	4	70.00	3.08	3.08	-457.81	1214.18	-286.85	50.96	
1.904	SLE Q	4	70.00	3.08	3.08	-385.82	1023.25	-241.74	42.95	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	4	19	70.00	-385.82	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1023.25	0.31	0.05	
4	1.903	SLE F	4	19	70.00	-406.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1077.80	0.31	0.05	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	646.32	2.50	7185.75	7873.13	7185.75	11.118
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	663.29	2.50	7185.75	7873.13	7185.75	10.834

Travata n. 13032

Nodi: 1367 -4236 -4308 -4375 -4493 1315

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	38.00	3.08	3.08	3.08	3.08	3.08	-799.72	-1506.47	1.884

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>ε</sub> sup <daN/cmq>	σ <sub>ε</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
1.902	SLE R	5	38.00	3.08	3.08	-590.29	1565.55	-369.86	65.71	
1.904	SLE Q	5	38.00	3.08	3.08	-494.91	1312.58	-310.10	55.09	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5	19	38.00	-494.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1312.58	0.45	0.07	
4	1.903	SLE F	5	19	38.00	-522.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1384.85	0.40	0.06	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	369.54	2.50	7185.75	7873.13	7185.75	19.445
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	386.51	2.50	7185.75	7873.13	7185.75	18.591

Travata n. 13033



Relazione di calcolo

Nodi: 1368 -4279 -4366 1381 -4574 1316

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	Afep S	Afep I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-650.15	-1506.47	2.317

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.44	3.08	3.08	-477.09	1265.30	-298.93	53.11
1.90	4	SLE Q	5	35.44	3.08	3.08	-401.21	1064.07	-251.39	44.66

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.44	-401.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1064.07	0.33	0.05
4	1.90	3	SLE F	5	19	35.44	-422.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1121.56	0.33	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	687.05	2.50	7185.75	7873.13	7185.75	10.459
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	704.02	2.50	7185.75	7873.13	7185.75	10.207

Travata n. 13035

Nodi: 1393 -4773 1401 1351

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	Afep S	Afep I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-313.49	-2142.71	6.835

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-219.86	400.50	-107.41	14.13
4.82	4	SLE Q	3	332.00	3.08	3.08	-156.13	284.42	-76.27	10.04

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-156.13	28.00	114.00	0.50	14.00	102.12	3.08	101.43	284.42	0.08	0.01
4	4.82	3	SLE F	3	18	332.00	-174.24	28.00	114.00	0.50	14.00	102.12	3.08	101.43	317.40	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2794.58	2.50	7619.38	26714.30	7619.38	2.726
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	383.21	2.50	5079.58	10017.90	5079.58	13.255
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	411.99	2.50	5079.58	10017.90	5079.58	12.329

Travata n. 13036

Nodi: 1369 -4280 -4367 1382 -4575 1317

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	Afep S	Afep I	My	MRdy	Sic.
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Relazione di calcolo

<m>			<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.43	6.03	4.02	6.03	4.02	-8370.13	-9551.64	1.141

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.43	6.03	4.02	-6181.49	2419.28	-672.87	61.64
1.904	SLE Q		5	35.43	6.03	4.02	-5616.72	2198.24	-611.39	56.01

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	30	35.43	-5616.72	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2198.24	0.91	0.19
4	1.903	SLE F		5	30	35.43	-5778.09	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2261.40	0.86	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4068.08	2.50	10241.80	20904.00	10241.80	2.518
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5554.27	2.50	10241.80	20904.00	10241.80	1.844

Travata n. 13040

Nodi: 1370 -4281 -4368 1383 -4576 1318

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30R		30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	35.41	6.03	4.02	6.03	4.02	-8297.86	-9551.64	1.151

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.41	6.03	4.02	-6129.00	2398.74	-667.15	61.11
1.904	SLE Q		5	35.41	6.03	4.02	-5570.75	2180.25	-606.39	55.55

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	30	35.41	-5570.75	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2180.25	0.90	0.19
4	1.903	SLE F		5	30	35.41	-5730.25	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2242.68	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.38	1.38	ø6/18 2 br.	3.14	0.30	3998.42	2.50	10241.80	20904.00	10241.80	2.561
1 SLU	1.38	1.90	0.52	ø6/18 2 br.	3.14	0.30	5536.72	2.50	10241.80	20904.00	10241.80	1.850

Travata n. 13041

Nodi: 1396 -4777 1402 1352

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R		18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU		3	332.00	3.08	3.08	3.08	3.08	-276.19	-2142.71	7.758

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R		3	332.00	3.08	3.08	-194.79	354.84	-95.16	12.52
4.824	SLE Q		3	332.00	3.08	3.08	-137.51	250.50	-67.18	8.84



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824		SLE Q	3	18	332.00	-137.51	28.00	114.00	0.50	14.00	102.12	3.08	101.43	250.50	0.07	0.01
4	4.823		SLE F	3	18	332.00	-153.82	28.00	114.00	0.50	14.00	102.12	3.08	101.43	280.20	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2762.96	2.50	7619.38	26714.30	7619.38	2.758
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	350.61	2.50	5079.58	10017.90	5079.58	14.488
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	379.39	2.50	5079.58	10017.90	5079.58	13.389

Travata n. 13042

Nodi: 1371 -4282 -4369 1384 -4577 1319

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.43	3.08	3.08	3.08	3.08	3.08	-626.96	-1506.47	2.403

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.43	3.08	3.08	3.08	-461.11	1222.93	-288.92	51.33
1.904	SLE Q	5	35.43	3.08	3.08	3.08	-385.23	1021.68	-241.37	42.88

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904		SLE Q	5	19	35.43	-385.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1021.68	0.31	0.05
4	1.903		SLE F	5	19	35.43	-406.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1079.17	0.31	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	666.58	2.50	7185.75	7873.13	7185.75	10.780
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	683.55	2.50	7185.75	7873.13	7185.75	10.512

Travata n. 13070

Nodi: 1400 1256 -4090 1245

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	3.08	-691.42	-6639.53	9.603

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.322	SLE R	3	52.50	3.08	3.08	3.08	-398.94	227.36	-52.85	4.65
3.324	SLE Q	3	52.50	3.08	3.08	3.08	273.48	-36.23	155.86	3.19

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
6	3.324		SLE Q	3	16	52.50	273.48	28.00	94.00	0.50	14.00	119.66	3.08	140.00	155.86	0.05	0.01
8	3.323		SLE F	3	16	52.50	244.78	28.00	94.00	0.50	14.00	119.66	3.08	140.00	139.50	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1877.06	2.50	7619.38	26714.30	7619.38	4.059



Relazione di calcolo

1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2636.26	2.50	7619.38	26714.30	7619.38	2.890
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	1709.90	2.50	15238.80	26714.30	15238.80	8.912

Travata n. 13084

Nodi: 1402 1258 -4093 1252

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	3.08	-1045.50	-6639.53	6.351

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
3.322	SLE	R	3	52.50	3.08	3.08	-665.16	379.08	-88.12	7.75
3.324	SLE	Q	3	52.50	3.08	3.08	-247.44	141.02	-32.78	2.88

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
5	3.324	SLE	Q	3	16	52.50	-247.44	28.00	94.00	0.50	14.00	119.66	3.08	140.00	141.02	0.04	0.01
7	3.323	SLE	F	3	16	52.50	-366.00	28.00	94.00	0.50	14.00	119.66	3.08	140.00	208.59	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <cm>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1657.04	2.50	7619.38	26714.30	7619.38	4.598
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2416.23	2.50	7619.38	26714.30	7619.38	3.153
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2083.42	2.50	15238.80	26714.30	15238.80	7.314

Travata n. 13088

Nodi: 1377 -4461 -4462 -4463 -4464 -4465 -4466 -4467 1378

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-152.34	-1506.47	9.889
1.971	SLU	5	36.88	3.08	3.08	3.08	3.08	3.08	76.64	1506.47	19.658
3.201	SLU	8	40.00	3.08	3.08	3.08	3.08	3.08	-108.66	-1506.47	13.865

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.002	SLE R	1	0.00	3.08	3.08	-109.52	290.47	-68.62	12.19	
0.004	SLE Q	1	0.00	3.08	3.08	-98.99	262.54	-62.02	11.02	
1.972	SLE R	5	36.88	3.08	3.08	53.37	-33.44	141.55	5.94	
1.974	SLE Q	5	36.88	3.08	3.08	47.72	-29.90	126.55	5.31	
3.202	SLE R	8	40.00	3.08	3.08	-76.88	203.89	-48.17	8.56	
3.204	SLE Q	8	40.00	3.08	3.08	-54.74	145.17	-34.30	6.09	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-98.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	262.54	0.08	0.01
4	0.003	SLE	F	1	19	0.00	-102.01	28.00	134.00	0.50	14.00	93.58	3.08	82.65	270.55	0.08	0.01
7	1.974	SLE	Q	5	19	36.88	47.72	28.00	134.00	0.50	14.00	93.58	3.08	82.65	126.55	0.04	0.01
8	1.973	SLE	F	5	19	36.88	49.33	28.00	134.00	0.50	14.00	93.58	3.08	82.65	130.84	0.04	0.01
11	3.204	SLE	Q	8	19	40.00	-54.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	145.17	0.04	0.01
12	3.203	SLE	F	8	19	40.00	-61.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	161.91	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <cm>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
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Relazione di calcolo

1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	546.36	2.50	7185.75	7873.13	7185.75	13.152
1 SLU	0.14	3.06	2.91	ø6/ 8 2 br.	7.07	0.20	546.36	2.50	7185.75	7873.13	7185.75	13.152
1 SLU	3.06	3.20	0.14	ø6/ 8 2 br.	7.07	0.20	276.55	2.50	7185.75	7873.13	7185.75	25.984

Travata n. 13130

Nodi: 1361 -4150 -4151 -4152 -4153 -4154 -4155 -4156 -4157 1362

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	35.70	1506.47	42.198
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	148.11	1506.47	10.171
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	30.46	1506.47	49.462

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	26.23	-16.44	69.57	2.92
0.00	4	SLE Q	1	0.00	3.08	3.08	22.58	-14.15	59.88	2.51
1.44	2	SLE R	5	0.00	3.08	3.08	107.61	-67.43	285.41	11.98
1.44	4	SLE Q	5	0.00	3.08	3.08	88.50	-55.45	234.72	9.85
3.25	2	SLE R	9	36.11	3.08	3.08	22.48	-14.09	59.62	2.50
3.25	4	SLE Q	9	36.11	3.08	3.08	19.25	-12.06	51.05	2.14

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	22.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.88	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	23.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	62.64	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	88.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	234.72	0.07	0.01
8	1.44	3	SLE F	5	19	0.00	93.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	249.17	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	19.25	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.05	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	20.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.49	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm²/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	185.56	2.50	7185.75	7873.13	7185.75	38.724
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	79.21	2.50	7185.75	7873.13	7185.75	90.722
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	199.85	2.50	7185.75	7873.13	7185.75	35.956

Travata n. 13131

Nodi: 1379 -4468 -4469 -4470 -4471 -4472 -4473 -4474 1380

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-113.54	-1506.47	13.268
1.19	1	SLU	4	0.00	3.08	3.08	3.08	3.08	68.99	1506.47	21.835
3.18	1	SLU	8	39.75	3.08	3.08	3.08	3.08	-153.41	-1506.47	9.820

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-80.67	213.96	-50.55	8.98
0.00	4	SLE Q	1	0.00	3.08	3.08	-58.10	154.09	-36.40	6.47
1.19	2	SLE R	4	0.00	3.08	3.08	47.56	-29.80	126.15	5.29
1.19	4	SLE Q	4	0.00	3.08	3.08	42.30	-26.50	112.18	4.71
3.18	2	SLE R	8	39.75	3.08	3.08	-110.42	292.84	-69.18	12.29
3.18	4	SLE Q	8	39.75	3.08	3.08	-100.22	265.81	-62.80	11.16

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>



Relazione di calcolo

3	0.00	4	SLE Q	1	19	0.00	-58.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	154.09	0.04	0.01
4	0.00	3	SLE F	1	19	0.00	-64.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	171.15	0.05	0.01
7	1.19	4	SLE Q	4	19	0.00	42.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	112.18	0.03	0.01
8	1.19	3	SLE F	4	19	0.00	43.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	115.93	0.03	0.01
11	3.18	4	SLE Q	8	19	39.75	-100.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	265.81	0.08	0.01
12	3.18	3	SLE F	8	19	39.75	-103.15	28.00	134.00	0.50	14.00	93.58	3.08	82.65	273.57	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	271.83	2.50	7185.75	7873.13	7185.75	26.435
1 SLU	0.14	3.04	2.89	ø6/ 8 2 br.	7.07	0.20	544.79	2.50	7185.75	7873.13	7185.75	13.190
1 SLU	3.04	3.18	0.14	ø6/ 8 2 br.	7.07	0.20	544.79	2.50	7185.75	7873.13	7185.75	13.190

Travata n. 13173

Nodi: 1363 -4158 -4159 -4160 -4161 -4162 -4163 -4164 1364

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmqr>	Fctm <daN/cmqr>	Fcd <daN/cmqr>	Fcd (Tag) <daN/cmqr>	Fctd <daN/cmqr>	Fym <daN/cmqr>	Fyd <daN/cmqr>	Fyd (Tag) <daN/cmqr>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmqr>	AfE I <cmqr>	AfEP S <cmqr>	AfEP I <cmqr>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-191.08	-1506.47	7.884
1.50	1	SLU	5	0.00	3.08	3.08	3.08	3.08	243.04	1506.47	6.198
3.00	1	SLU	8	37.50	3.08	3.08	3.08	3.08	-185.57	-1506.47	8.118

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmqr>	AfE I <cmqr>	My <daNm>	σ <sub>f</sub> sup <daN/cmqr>	σ <sub>f</sub> inf <daN/cmqr>	σ <sub>c</sub> <daN/cmqr>
0.00	2	SLE R	1	0.00	3.08	3.08	-145.27	385.27	-91.02	16.17
0.00	4	SLE Q	1	0.00	3.08	3.08	-136.15	361.09	-85.31	15.16
1.50	2	SLE R	5	0.00	3.08	3.08	182.63	-114.43	484.37	20.33
1.50	4	SLE Q	5	0.00	3.08	3.08	167.25	-104.79	443.57	18.62
3.00	2	SLE R	8	37.50	3.08	3.08	-141.12	374.27	-88.42	15.71
3.00	4	SLE Q	8	37.50	3.08	3.08	-132.69	351.90	-83.14	14.77

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmqr>	A <sub>c eff</sub> <cmqr>	σ <sub>s</sub> <daN/cmqr>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-136.15	28.00	134.00	0.50	14.00	93.58	3.08	82.65	361.09	0.11	0.02
4	0.00	3	SLE F	1	19	0.00	-138.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	367.99	0.11	0.02
7	1.50	4	SLE Q	5	19	0.00	167.25	28.00	134.00	0.50	14.00	93.58	3.08	82.65	443.57	0.13	0.02
8	1.50	3	SLE F	5	19	0.00	171.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	455.24	0.13	0.02
11	3.00	4	SLE Q	8	19	37.50	-132.69	28.00	134.00	0.50	14.00	93.58	3.08	82.65	351.90	0.10	0.02
12	3.00	3	SLE F	8	19	37.50	-135.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	358.29	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	889.27	2.50	7185.75	7873.13	7185.75	8.081
1 SLU	0.14	2.85	2.71	ø6/ 8 2 br.	7.07	0.20	589.55	2.50	7185.75	7873.13	7185.75	12.189
1 SLU	2.85	3.00	0.14	ø6/ 8 2 br.	7.07	0.20	883.47	2.50	7185.75	7873.13	7185.75	8.134

Travata n. 13174

Nodi: 1381 -4475 -4476 -4477 -4478 -4479 -4480 -4481 -4482 1382

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmqr>	Fctm <daN/cmqr>	Fcd <daN/cmqr>	Fcd (Tag) <daN/cmqr>	Fctd <daN/cmqr>	Fym <daN/cmqr>	Fyd <daN/cmqr>	Fyd (Tag) <daN/cmqr>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmqr>	AfE I <cmqr>	AfEP S <cmqr>	AfEP I <cmqr>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-153.40	-1506.47	9.820
1.81	1	SLU	5	36.11	3.08	3.08	3.08	3.08	93.38	1506.47	16.133
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-112.72	-1506.47	13.365

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmqr>	AfE I <cmqr>	My <daNm>	σ <sub>f</sub> sup <daN/cmqr>	σ <sub>f</sub> inf <daN/cmqr>	σ <sub>c</sub> <daN/cmqr>
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Relazione di calcolo

0.00	2	SLE R	1	0.00	3.08	3.08	-110.14	292.11	-69.01	12.26
0.00	4	SLE Q	1	0.00	3.08	3.08	-99.32	263.40	-62.23	11.06
1.81	2	SLE R	5	36.11	3.08	3.08	64.93	-40.68	172.21	7.23
1.81	4	SLE Q	5	36.11	3.08	3.08	56.59	-35.46	150.09	6.30
3.25	2	SLE R	9	36.11	3.08	3.08	-79.83	211.73	-50.02	8.89
3.25	4	SLE Q	9	36.11	3.08	3.08	-57.27	151.89	-35.88	6.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-99.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	263.40	0.08	0.01
4	0.00	3	SLE F	1	19	0.00	-102.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	271.64	0.08	0.01
7	1.81	4	SLE Q	5	19	36.11	56.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	150.09	0.04	0.01
8	1.81	3	SLE F	5	19	36.11	58.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	156.41	0.05	0.01
11	3.25	4	SLE Q	9	19	36.11	-57.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	151.89	0.04	0.01
12	3.25	3	SLE F	9	19	36.11	-63.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	168.94	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	633.57	2.50	7185.75	7873.13	7185.75	11.342
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	633.57	2.50	7185.75	7873.13	7185.75	11.342
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	287.86	2.50	7185.75	7873.13	7185.75	24.963

Travata n. 13216

Nodi: 1365 -4165 -4166 -4167 -4168 -4169 -4170 -4171 -4172 1366

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	29.87	1506.47	50.433
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	148.40	1506.47	10.151
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	36.44	1506.47	41.346

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	22.06	-13.82	58.51	2.46
0.00	4	SLE Q	1	0.00	3.08	3.08	18.90	-11.84	50.11	2.10
1.62	2	SLE R	5	18.06	3.08	3.08	108.05	-67.70	286.56	12.03
1.62	4	SLE Q	5	18.06	3.08	3.08	89.18	-55.87	236.51	9.93
3.25	2	SLE R	9	36.11	3.08	3.08	26.86	-16.83	71.25	2.99
3.25	4	SLE Q	9	36.11	3.08	3.08	23.25	-14.57	61.66	2.59

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	18.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	50.11	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	19.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.51	0.02	0.00
7	1.62	4	SLE Q	5	19	18.06	89.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	236.51	0.07	0.01
8	1.62	3	SLE F	5	19	18.06	94.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	250.80	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	23.25	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.66	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	24.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	64.40	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	198.58	2.50	7185.75	7873.13	7185.75	36.186
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	77.94	2.50	7185.75	7873.13	7185.75	92.201
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	186.78	2.50	7185.75	7873.13	7185.75	38.471

Travata n. 13217

Nodi: 1383 -4483 -4484 -4485 -4486 -4487 -4488 -4489 -4490 1384

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94



Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	1	0.00	3.08	3.08	3.08	3.08	-107.76	-1506.47	13.979
1.441	SLU	5	1	0.00	3.08	3.08	3.08	3.08	94.67	1506.47	15.912
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	-128.27	-1506.47	11.745

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cmq>	$\sigma_f$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.002	SLE R	1	1	0.00	3.08	3.08	-76.51	202.92	-47.94	8.52
0.004	SLE Q	1	1	0.00	3.08	3.08	-54.45	144.42	-34.12	6.06
1.442	SLE R	5	5	0.00	3.08	3.08	65.78	-41.21	174.45	7.32
1.444	SLE Q	5	5	0.00	3.08	3.08	56.91	-35.66	150.93	6.34
3.232	SLE R	9	35.89	3.08	3.08	3.08	-92.34	244.90	-57.86	10.28
3.234	SLE Q	9	35.89	3.08	3.08	3.08	-85.77	227.48	-53.74	9.55

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmqr>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-54.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	144.42	0.04	0.01
4	0.003	SLE	F	1	19	0.00	-60.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	161.09	0.05	0.01
7	1.444	SLE	Q	5	19	0.00	56.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	150.93	0.04	0.01
8	1.443	SLE	F	5	19	0.00	59.43	28.00	134.00	0.50	14.00	93.58	3.08	82.65	157.62	0.05	0.01
11	3.234	SLE	Q	9	19	35.89	-85.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	227.48	0.07	0.01
12	3.233	SLE	F	9	19	35.89	-87.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	232.63	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	280.37	2.50	7185.75	7873.13	7185.75	25.630
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	638.73	2.50	7185.75	7873.13	7185.75	11.250
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	638.73	2.50	7185.75	7873.13	7185.75	11.250

Travata n. 13259

Nodi: 1367 -4173 -4174 -4175 -4176 -4177 -4178 -4179 -4180 1368

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	1	0.00	3.08	3.08	3.08	3.08	35.06	1506.47	42.963
1.441	SLU	5	1	0.00	3.08	3.08	3.08	3.08	148.12	1506.47	10.171
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	31.20	1506.47	48.290

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cmq>	$\sigma_f$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.002	SLE R	1	1	0.00	3.08	3.08	25.83	-16.18	68.50	2.88
0.004	SLE Q	1	1	0.00	3.08	3.08	22.29	-13.97	59.12	2.48
1.442	SLE R	5	5	0.00	3.08	3.08	107.81	-67.55	285.93	12.00
1.444	SLE Q	5	5	0.00	3.08	3.08	88.87	-55.68	235.69	9.89
3.252	SLE R	9	36.11	3.08	3.08	3.08	23.05	-14.44	61.12	2.57
3.254	SLE Q	9	36.11	3.08	3.08	3.08	19.77	-12.39	52.43	2.20

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cm <sup>2</sup> >	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	22.29	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.12	0.02	0.00
4	0.003	SLE	F	1	19	0.00	23.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.80	0.02	0.00
7	1.444	SLE	Q	5	19	0.00	88.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	235.69	0.07	0.01
8	1.443	SLE	F	5	19	0.00	94.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	250.03	0.07	0.01
11	3.254	SLE	Q	9	19	36.11	19.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.43	0.02	0.00
12	3.253	SLE	F	9	19	36.11	20.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.91	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	185.22	2.50	7185.75	7873.13	7185.75	38.796
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	79.71	2.50	7185.75	7873.13	7185.75	90.153
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	200.35	2.50	7185.75	7873.13	7185.75	35.867



Travata n. 13302

Nodi: 1369 -4181 -4182 -4183 -4184 -4185 -4186 -4187 1370

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm<sup>q>	Afe I <cm<sup>q>	AfeP S <cm<sup>q>	AfeP I <cm<sup>q>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-185.62	-1506.47	8.116
1.451	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	228.58	1506.47	6.590
2.901	SLU	8	36.25	3.08	3.08	3.08	3.08	3.08	-178.62	-1506.47	8.434

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm<sup>q>	Afe I <cm<sup>q>	My <daNm>	σ <sub>f</sub> sup <daN/cm<sup>q>	σ <sub>f</sub> inf <daN/cm<sup>q>	σ <sub>c</sub> <daN/cm<sup>q>
0.002	SLE R	1	0.00	3.08	3.08	-140.98	373.90	-88.33		15.69
0.004	SLE Q	1	0.00	3.08	3.08	-132.04	350.20	-82.73		14.70
1.452	SLE R	5	0.00	3.08	3.08	172.09	-107.83	456.41		19.16
1.454	SLE Q	5	0.00	3.08	3.08	158.02	-99.01	419.10		17.59
2.902	SLE R	8	36.25	3.08	3.08	-135.82	360.21	-85.10		15.12
2.904	SLE Q	8	36.25	3.08	3.08	-127.80	338.93	-80.07		14.23

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c off</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-132.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	350.20	0.10	0.02
4	0.003	SLE	F	1	19	0.00	-134.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	356.96	0.10	0.02
7	1.454	SLE	Q	5	19	0.00	158.02	28.00	134.00	0.50	14.00	93.58	3.08	82.65	419.10	0.12	0.02
8	1.453	SLE	F	5	19	0.00	162.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	429.78	0.13	0.02
11	2.904	SLE	Q	8	19	36.25	-127.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	338.93	0.10	0.02
12	2.903	SLE	F	8	19	36.25	-130.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	345.00	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm<sup>q>/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	880.40	2.50	7185.75	7873.13	7185.75	8.162
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	580.68	2.50	7185.75	7873.13	7185.75	12.375
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	872.38	2.50	7185.75	7873.13	7185.75	8.237

Travata n. 13345

Nodi: 1371 -4188 -4189 -4190 -4191 -4192 -4193 -4194 -4195 1372

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm<sup>q>	Afe I <cm<sup>q>	AfeP S <cm<sup>q>	AfeP I <cm<sup>q>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	36.33	1506.47	41.469
1.611	SLU	5	17.94	3.08	3.08	3.08	3.08	3.08	161.77	1506.47	9.312
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	37.34	1506.47	40.341

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm<sup>q>	Afe I <cm<sup>q>	My <daNm>	σ <sub>f</sub> sup <daN/cm<sup>q>	σ <sub>f</sub> inf <daN/cm<sup>q>	σ <sub>c</sub> <daN/cm<sup>q>
0.002	SLE R	1	0.00	3.08	3.08	26.60	-16.67	70.55		2.96
0.004	SLE Q	1	0.00	3.08	3.08	22.78	-14.27	60.41		2.54
1.612	SLE R	5	17.94	3.08	3.08	117.31	-73.51	311.14		13.06
1.614	SLE Q	5	17.94	3.08	3.08	97.24	-60.93	257.90		10.82
3.232	SLE R	9	35.89	3.08	3.08	27.44	-17.19	72.78		3.05
3.234	SLE Q	9	35.89	3.08	3.08	23.79	-14.90	63.09		2.65

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm <sup>2</sup> >	A <sub>c eff</sub> <cm <sup>2</sup> >	σ <sub>s</sub> <daN/cm <sup>2</sup> >	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE Q	1	19	0.00	22.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65		60.41	0.02	0.00
4	0.003	SLE F	1	19	0.00	23.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65		63.29	0.02	0.00
7	1.614	SLE Q	5	19	17.94	97.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65		257.90	0.08	0.01



Relazione di calcolo

8	1.61	3	SLE F	5	19	17.94	102.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	273.09	0.08	0.01
11	3.23	4	SLE Q	9	19	35.89	23.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	63.09	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	24.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	65.86	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	200.95	2.50	7185.75	7873.13	7185.75	35.760
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	80.31	2.50	7185.75	7873.13	7185.75	89.480
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	188.35	2.50	7185.75	7873.13	7185.75	38.151

Travata n. 14024

Nodi: 1399 1455 -4853 1444

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-945.08	-13043.50	13.802	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>e</sub> sup <daN/cmq>	σ <sub>e</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
3.322	SLE R	3	52.50	6.16	3.08	-601.32	175.88	-68.27	5.53	
3.324	SLE Q	3	52.50	6.16	3.08	-221.75	64.86	-25.17	2.04	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
4	3.324	SLE Q	3	16	52.50	99.41	28.00	94.00	0.50	14.00	119.66	3.08	140.00		56.16	0.02	0.00
5	3.323	SLE F	3	16	52.50	-329.63	28.00	31.33	0.50	14.00	87.83	6.16	140.00		96.41	0.03	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1635.72	2.50	7619.38	26714.30	7619.38	4.658
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1635.72	2.50	7619.38	26714.30	7619.38	4.658
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	1767.38	2.50	15238.80	26714.30	15238.80	8.622

Travata n. 14035

Nodi: 1401 1457 -4856 1451

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-1280.16	-13043.50	10.189	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>e</sub> sup <daN/cmq>	σ <sub>e</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
3.322	SLE R	3	52.50	6.16	3.08	-849.30	248.41	-96.42	7.82	
3.324	SLE Q	3	52.50	6.16	3.08	-432.40	126.47	-49.09	3.98	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	3.324	SLE Q	3	16	52.50	-432.40	28.00	31.33	0.50	14.00	87.83	6.16	140.00		126.47	0.04	0.01
5	3.323	SLE F	3	16	52.50	-550.87	28.00	31.33	0.50	14.00	87.83	6.16	140.00		161.12	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1404.34	2.50	7619.38	26714.30	7619.38	5.426
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1404.34	2.50	7619.38	26714.30	7619.38	5.426



Relazione di calcolo

1	SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2139.95	2.50	15238.80	26714.30	15238.80	7.121
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Travata n. 15021

Nodi: 1561 -4983 -5061 -5149 -5263 1508

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	-814.48	-1506.47	1.850

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	$\sigma_e$ sup <daN/cm>	$\sigma_e$ inf <daN/cm>	$\sigma_c$ <daN/cm>
1.902	SLE R	5	0.00	3.08	3.08	-600.75	1593.28	1593.28	-376.41	66.88
1.904	SLE Q	5	0.00	3.08	3.08	-504.00	1336.68	1336.68	-315.79	56.10

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5	19	0.00	-504.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1336.68	0.47	0.07	
4	1.903	SLE F	5	19	0.00	-531.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1409.94	0.41	0.07	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <cm>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	401.57	2.50	7185.75	7873.13	7185.75	17.894
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	418.54	2.50	7185.75	7873.13	7185.75	17.169

Travata n. 15022

Nodi: 1562 -5040 -5127 1577 1509

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	4	70.00	3.08	3.08	3.08	3.08	3.08	-627.50	-1506.47	2.401

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	$\sigma_e$ sup <daN/cm>	$\sigma_e$ inf <daN/cm>	$\sigma_c$ <daN/cm>
1.902	SLE R	4	70.00	3.08	3.08	-460.50	1221.32	1221.32	-288.54	51.26
1.904	SLE Q	4	70.00	3.08	3.08	-387.85	1028.62	1028.62	-243.01	43.17

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	4	19	70.00	-387.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1028.62	0.32	0.05	
4	1.903	SLE F	4	19	70.00	-408.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1083.67	0.32	0.05	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <cm>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	650.81	2.50	7185.75	7873.13	7185.75	11.041
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	667.78	2.50	7185.75	7873.13	7185.75	10.761

Travata n. 15023

Nodi: 1563 -5041 -5128 1578 -5336 1510

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94



Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	35.06	6.03	4.02	6.03	4.02	-8514.40	-9551.64	1.122

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.06	6.03	4.02	-6289.22	2461.44	-684.59	62.71
1.904	SLE Q		5	35.06	6.03	4.02	-5711.75	2235.44	-621.74	56.95

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	30	35.06	-5711.75	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2235.44	0.93	0.19
4	1.903	SLE F		5	30	35.06	-5876.77	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2300.02	0.88	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4099.16	2.50	10241.80	20904.00	10241.80	2.498
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5731.54	2.50	10241.80	20904.00	10241.80	1.787

Travata n. 15024

Nodi: 1589 -5534 1599 1544

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R		18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU		3	332.00	3.08	3.08	3.08	3.08	-258.01	-2142.71	8.305

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R		3	332.00	3.08	3.08	-179.11	326.28	-87.50	11.51
4.824	SLE Q		3	332.00	3.08	3.08	-121.34	221.03	-59.28	7.80

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q		3	18	332.00	-121.34	28.00	114.00	0.50	14.00	102.12	3.08	101.43	221.03	0.06	0.01
4	4.823	SLE F		3	18	332.00	-137.73	28.00	114.00	0.50	14.00	102.12	3.08	101.43	250.90	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2823.27	2.50	7619.38	26714.30	7619.38	2.699
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	355.20	2.50	5079.58	10017.90	5079.58	14.301
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	383.98	2.50	5079.58	10017.90	5079.58	13.229

Travata n. 15027

Nodi: 1592 -5538 1600 1545

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R		18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU		3	332.00	3.08	3.08	3.08	3.08	-238.15	-2142.71	8.997

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>



Relazione di calcolo

4.82	2	SLE R	3	332.00	3.08	3.08	-165.71	301.86	-80.95	10.65
4.82	4	SLE Q	3	332.00	3.08	3.08	-112.91	205.68	-55.16	7.26

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-112.91	28.00	114.00	0.50	14.00	102.12	3.08	101.43	205.68	0.06	0.01
4	4.82	3	SLE F	3	18	332.00	-127.91	28.00	114.00	0.50	14.00	102.12	3.08	101.43	233.00	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	3078.01	2.50	7619.38	26714.30	7619.38	2.475
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	338.23	2.50	5079.58	10017.90	5079.58	15.018
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	367.01	2.50	5079.58	10017.90	5079.58	13.840

Travata n. 15028

Nodi: 1564 -5042 -5129 1579 -5337 1511

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.09	6.03	4.02	6.03	4.02	-8481.56	-9551.64	1.126

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.09	6.03	4.02	-6263.71	2451.46	-681.82	62.46
1.90	4	SLE Q	5	35.09	6.03	4.02	-5693.13	2228.15	-619.71	56.77

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.09	-5693.13	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2228.15	0.92	0.19
4	1.90	3	SLE F	5	30	35.09	-5856.17	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2291.96	0.87	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4097.65	2.50	10241.80	20904.00	10241.80	2.499
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5701.15	2.50	10241.80	20904.00	10241.80	1.796

Travata n. 15029

Nodi: 1565 -5043 -5130 1580 1512

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	4	70.00	3.08	3.08	3.08	3.08	-620.72	-1506.47	2.427

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	4	70.00	3.08	3.08	-455.24	1207.36	-285.24	50.68
1.90	4	SLE Q	4	70.00	3.08	3.08	-383.37	1016.75	-240.21	42.68

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	4	19	70.00	-383.37	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1016.75	0.31	0.05
4	1.90	3	SLE F	4	19	70.00	-403.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1071.21	0.31	0.05



Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	643.11	2.50	7185.75	7873.13	7185.75	11.173
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	660.08	2.50	7185.75	7873.13	7185.75	10.886

Travata n. 15032

Nodi: 1567 -5001 -5073 -5140 -5258 1515

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	5		38.00	3.08	3.08	3.08	3.08	-811.76	-1506.47	1.856

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	SLE R	5		38.00	3.08	3.08	-599.17	1589.08	-375.42	66.70
1.904	SLE Q	5		38.00	3.08	3.08	-503.03	1334.12	-315.19	56.00

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5		19	38.00	-503.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1334.12	0.47	0.07
4	1.903	SLE F	5		19	38.00	-530.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1406.96	0.41	0.07

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	362.42	2.50	7185.75	7873.13	7185.75	19.827
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	379.38	2.50	7185.75	7873.13	7185.75	18.941

Travata n. 15033

Nodi: 1568 -5044 -5131 1581 -5339 1516

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	5		35.44	3.08	3.08	3.08	3.08	-641.52	-1506.47	2.348

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	SLE R	5		35.44	3.08	3.08	-470.70	1248.35	-294.92	52.40
1.904	SLE Q	5		35.44	3.08	3.08	-395.36	1048.55	-247.72	44.01

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5		19	35.44	-395.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1048.55	0.33	0.05
4	1.903	SLE F	5		19	35.44	-416.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1105.63	0.32	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	679.75	2.50	7185.75	7873.13	7185.75	10.571
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	696.72	2.50	7185.75	7873.13	7185.75	10.314

Travata n. 15035

Nodi: 1593 -5539 1601 1551

Caratteristiche delle sezioni e dei materiali utilizzati



Relazione di calcolo

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-306.32	-2142.71	6.995

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	$\sigma_r$ sup <daN/cm>	$\sigma_r$ inf <daN/cm>	$\sigma_c$ <daN/cm>
4.82	2	SLE R	3	332.00	3.08	3.08	-214.82	391.32	-104.94	13.81
4.82	4	SLE Q	3	332.00	3.08	3.08	-151.68	276.31	-74.10	9.75

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	$\sigma_s$ <daN/cm>	$\epsilon_{sm}$	Wk <mm>
3	4.82	4	SLE Q	3	18	332.00	-151.68	28.00	114.00	0.50	14.00	102.12	3.08	101.43	276.31	0.08	0.01
4	4.82	3	SLE F	3	18	332.00	-169.60	28.00	114.00	0.50	14.00	102.12	3.08	101.43	308.94	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2618.10	2.50	7619.38	26714.30	7619.38	2.910
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	375.00	2.50	5079.58	10017.90	5079.58	13.545
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	403.79	2.50	5079.58	10017.90	5079.58	12.580

Travata n. 15036

Nodi: 1569 -5045 -5132 1582 -5340 1517

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.43	6.03	4.02	6.03	4.02	-8314.53	-9551.64	1.149

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	$\sigma_r$ sup <daN/cm>	$\sigma_r$ inf <daN/cm>	$\sigma_c$ <daN/cm>
1.90	2	SLE R	5	35.43	6.03	4.02	-6140.07	2403.07	-668.36	61.22
1.90	4	SLE Q	5	35.43	6.03	4.02	-5580.79	2184.18	-607.48	55.65

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	$\sigma_s$ <daN/cm>	$\epsilon_{sm}$	Wk <mm>
3	1.90	4	SLE Q	5	30	35.43	-5580.79	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2184.18	0.90	0.19
4	1.90	3	SLE F	5	30	35.43	-5740.59	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2246.72	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4039.63	2.50	10241.80	20904.00	10241.80	2.535
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5514.10	2.50	10241.80	20904.00	10241.80	1.857

Travata n. 15040

Nodi: 1570 -5046 -5133 1583 -5341 1518

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-8294.61	-9551.64	1.152



Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.41	6.03	4.02	-6126.64	2397.81	-666.90	61.09	
1.904	SLE Q	5	35.41	6.03	4.02	-5568.69	2179.44	-606.16	55.53	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	30	35.41	-5568.69	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2179.44	0.90	0.19	
4	1.903	SLE F	5	30	35.41	-5728.11	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2241.84	0.85	0.18	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.38	1.38	ø6/18 2 br.	3.14	0.30	3979.64	2.50	10241.80	20904.00	10241.80	2.574
1 SLU	1.38	1.90	0.52	ø6/18 2 br.	3.14	0.30	5503.17	2.50	10241.80	20904.00	10241.80	1.861

Travata n. 15041

Nodi: 1596 -5543 1602 1552

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	-281.86	-2142.71	7.602	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R	3	332.00	3.08	3.08	-198.47	361.54	-96.96	12.76	
4.824	SLE Q	3	332.00	3.08	3.08	-140.62	256.16	-68.70	9.04	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q	3	18	332.00	-140.62	28.00	114.00	0.50	14.00	102.12	3.08	101.43	256.16	0.07	0.01	
4	4.823	SLE F	3	18	332.00	-157.05	28.00	114.00	0.50	14.00	102.12	3.08	101.43	286.09	0.08	0.01	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2835.35	2.50	7619.38	26714.30	7619.38	2.687
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	355.02	2.50	5079.58	10017.90	5079.58	14.308
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	383.81	2.50	5079.58	10017.90	5079.58	13.235

Travata n. 15042

Nodi: 1571 -5047 -5134 1584 -5342 1519

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.43	3.08	3.08	3.08	3.08	-617.92	-1506.47	2.438	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.43	3.08	3.08	-454.36	1205.03	-284.69	50.58	
1.904	SLE Q	5	35.43	3.08	3.08	-379.17	1005.60	-237.57	42.21	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>				<cmq>	<cmq>			<mm>



Relazione di calcolo

												<mm>			<daN/cm>		
3	1.90	4	SLE Q	5	19	35.43	-379.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1005.60	0.31	0.05
4	1.90	3	SLE F	5	19	35.43	-400.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1062.57	0.31	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	662.09	2.50	7185.75	7873.13	7185.75	10.853
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	679.05	2.50	7185.75	7873.13	7185.75	10.582

Travata n. 15070

Nodi: 1600 1456 -4855 1445

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU		3	52.50	3.08	3.08	3.08	3.08	-503.61	-6639.53	13.184

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.322	SLE R	3	52.50	3.08	3.08	-262.75	149.74	-34.81	3.06	
3.324	SLE Q	3	52.50	3.08	3.08	335.75	-44.48	191.35	3.91	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
5	3.324	SLE Q	3	16	52.50	335.75	28.00	94.00	0.50	14.00	119.66	3.08	140.00	191.35	0.06	0.01	
7	3.323	SLE F	3	16	52.50	309.82	28.00	94.00	0.50	14.00	119.66	3.08	140.00	176.57	0.05	0.01	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1958.99	2.50	7619.38	26714.30	7619.38	3.889
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2718.18	2.50	7619.38	26714.30	7619.38	2.803
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	1522.89	2.50	15238.80	26714.30	15238.80	10.007

Travata n. 15084

Nodi: 1602 1458 -4858 1452

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	-955.40	-6639.53	6.950	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.322	SLE R	3	52.50	3.08	3.08	-600.49	342.23	-79.56	7.00	
3.324	SLE Q	3	52.50	3.08	3.08	194.51	-25.77	110.85	2.27	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
6	3.324	SLE Q	3	16	52.50	194.51	28.00	94.00	0.50	14.00	119.66	3.08	140.00		110.85	0.03	0.01
7	3.323	SLE F	3	16	52.50	-306.94	28.00	94.00	0.50	14.00	119.66	3.08	140.00		174.93	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1674.20	2.50	7619.38	26714.30	7619.38	4.551
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2433.39	2.50	7619.38	26714.30	7619.38	3.131
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	1997.28	2.50	15238.80	26714.30	15238.80	7.630



### Travata n. 15088

Nodi: 1577 -5226 -5227 -5228 -5229 -5230 -5231 -5232 1578

#### Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

#### Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-148.71	-1506.47	10.130
1.981	SLU	5	37.89	3.08	3.08	3.08	3.08	3.08	78.31	1506.47	19.237
3.201	SLU	8	40.00	3.08	3.08	3.08	3.08	3.08	-107.63	-1506.47	13.996

#### Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	$\sigma_f$ sup <daN/cm>	$\sigma_f$ inf <daN/cm>	$\sigma_c$ <daN/cm>
0.002	SLE R	1	0.00	3.08	3.08	-106.98	283.73	-67.03	11.91	
0.004	SLE Q	1	0.00	3.08	3.08	-97.23	257.86	-60.92	10.82	
1.982	SLE R	5	37.89	3.08	3.08	54.66	-34.25	144.98	6.09	
1.984	SLE Q	5	37.89	3.08	3.08	48.99	-30.70	129.94	5.45	
3.202	SLE R	8	40.00	3.08	3.08	-76.01	201.59	-47.63	8.46	
3.204	SLE Q	8	40.00	3.08	3.08	-53.50	141.90	-33.52	5.96	

#### Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-97.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	257.86	0.08	0.01
4	0.003	SLE	F	1	19	0.00	-100.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	265.29	0.08	0.01
7	1.984	SLE	Q	5	19	37.89	48.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	129.94	0.04	0.01
8	1.983	SLE	F	5	19	37.89	50.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	134.25	0.04	0.01
11	3.204	SLE	Q	8	19	40.00	-53.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	141.90	0.04	0.01
12	3.203	SLE	F	8	19	40.00	-59.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	158.90	0.05	0.01

#### Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	541.59	2.50	7185.75	7873.13	7185.75	13.268
1 SLU	0.14	3.06	2.91	ø6/ 8 2 br.	7.07	0.20	541.59	2.50	7185.75	7873.13	7185.75	13.268
1 SLU	3.06	3.20	0.14	ø6/ 8 2 br.	7.07	0.20	277.70	2.50	7185.75	7873.13	7185.75	25.876

### Travata n. 15130

Nodi: 1561 -4915 -4916 -4917 -4918 -4919 -4920 -4921 -4922 1562

#### Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

#### Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	35.52	1506.47	42.415
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	148.86	1506.47	10.120
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	31.10	1506.47	48.439

#### Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	$\sigma_e$ sup <daN/cmq>	$\sigma_e$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	26.09	-16.34	69.18	2.90	
0.004	SLE Q	1	0.00	3.08	3.08	22.44	-14.06	59.50	2.50	
1.442	SLE R	5	0.00	3.08	3.08	108.11	-67.74	286.74	12.04	
1.444	SLE Q	5	0.00	3.08	3.08	88.88	-55.69	235.72	9.89	
3.252	SLE R	9	36.11	3.08	3.08	22.94	-14.37	60.84	2.55	
3.254	SLE Q	9	36.11	3.08	3.08	19.63	-12.30	52.07	2.19	

#### Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.004	4	SLE Q	1	19	0.00	22.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.50	0.02	0.00
4	0.003	4	SLE F	1	19	0.00	23.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	62.26	0.02	0.00
7	1.444	4	SLE Q	5	19	0.00	88.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	235.72	0.07	0.01



Relazione di calcolo

8	1.44	3	SLE F	5	19	0.00	94.37	28.00	134.00	0.50	14.00	93.58	3.08	82.65	250.27	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	19.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.07	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	20.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.57	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	186.04	2.50	7185.75	7873.13	7185.75	38.625
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	78.97	2.50	7185.75	7873.13	7185.75	90.992
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	199.61	2.50	7185.75	7873.13	7185.75	35.998

Travata n. 15131

Nodi: 1579 -5233 -5234 -5235 -5236 -5237 -5238 -5239 1580

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-113.39	-1506.47	13.285
1.19	1	SLU	4	0.00	3.08	3.08	3.08	3.08	70.24	1506.47	21.447
3.18	1	SLU	8	39.75	3.08	3.08	3.08	3.08	-150.79	-1506.47	9.991

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-80.49	213.47	-50.43	8.96
0.00	4	SLE Q	1	0.00	3.08	3.08	-57.33	152.05	-35.92	6.38
1.19	2	SLE R	4	0.00	3.08	3.08	48.51	-30.39	128.65	5.40
1.19	4	SLE Q	4	0.00	3.08	3.08	43.40	-27.20	115.11	4.83
3.18	2	SLE R	8	39.75	3.08	3.08	-108.61	288.06	-68.05	12.09
3.18	4	SLE Q	8	39.75	3.08	3.08	-99.24	263.20	-62.18	11.05

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
3	0.00	4	SLE Q	1	19	0.00	-57.33	28.00	134.00	0.50	14.00	93.58	3.08	82.65	152.05	0.04	0.01
4	0.00	3	SLE F	1	19	0.00	-63.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	169.54	0.05	0.01
7	1.19	4	SLE Q	4	19	0.00	43.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	115.11	0.03	0.01
8	1.19	3	SLE F	4	19	0.00	44.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	118.77	0.03	0.01
11	3.18	4	SLE Q	8	19	39.75	-99.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	263.20	0.08	0.01
12	3.18	3	SLE F	8	19	39.75	-101.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	270.35	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	272.17	2.50	7185.75	7873.13	7185.75	26.401
1 SLU	0.14	3.04	2.89	ø6/ 8 2 br.	7.07	0.20	541.66	2.50	7185.75	7873.13	7185.75	13.266
1 SLU	3.04	3.18	0.14	ø6/ 8 2 br.	7.07	0.20	541.66	2.50	7185.75	7873.13	7185.75	13.266

Travata n. 15173

Nodi: 1563 -4923 -4924 -4925 -4926 -4927 -4928 -4929 1564

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-190.65	-1506.47	7.902
1.50	1	SLU	5	0.00	3.08	3.08	3.08	3.08	242.49	1506.47	6.212
3.00	1	SLU	8	37.50	3.08	3.08	3.08	3.08	-186.60	-1506.47	8.073

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-144.95	384.43	-90.82	16.14
0.00	4	SLE Q	1	0.00	3.08	3.08	-135.66	359.78	-85.00	15.10
1.50	2	SLE R	5	0.00	3.08	3.08	182.24	-114.19	483.34	20.29



Relazione di calcolo

1.50	4	SLE Q	5	0.00	3.08	3.08	167.03	-104.66	443.00	18.59
3.00	2	SLE R	8	37.50	3.08	3.08	-141.86	376.23	-88.88	15.79
3.00	4	SLE Q	8	37.50	3.08	3.08	-133.40	353.79	-83.58	14.85

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-135.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	359.78	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-138.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	366.81	0.11	0.02
7	1.50	4	SLE Q	5	19	0.00	167.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	443.00	0.13	0.02
8	1.50	3	SLE F	5	19	0.00	171.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	454.54	0.13	0.02
11	3.00	4	SLE Q	8	19	37.50	-133.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	353.79	0.10	0.02
12	3.00	3	SLE F	8	19	37.50	-135.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	360.18	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	888.39	2.50	7185.75	7873.13	7185.75	8.088
1 SLU	0.14	2.85	2.71	ø6/ 8 2 br.	7.07	0.20	588.67	2.50	7185.75	7873.13	7185.75	12.207
1 SLU	2.85	3.00	0.14	ø6/ 8 2 br.	7.07	0.20	884.36	2.50	7185.75	7873.13	7185.75	8.125

Travata n. 15174

Nodi: 1581 -5240 -5241 -5242 -5243 -5244 -5245 -5246 -5247 1582

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-148.10	-1506.47	10.172
1.81	1	SLU	5	36.11	3.08	3.08	3.08	3.08	96.51	1506.47	15.609
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-109.28	-1506.47	13.785

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-106.35	282.05	-66.63	11.84
0.00	4	SLE Q	1	0.00	3.08	3.08	-96.51	255.96	-60.47	10.74
1.81	2	SLE R	5	36.11	3.08	3.08	67.25	-42.14	178.36	7.49
1.81	4	SLE Q	5	36.11	3.08	3.08	58.66	-36.75	155.57	6.53
3.25	2	SLE R	9	36.11	3.08	3.08	-77.20	204.75	-48.37	8.59
3.25	4	SLE Q	9	36.11	3.08	3.08	-54.49	144.53	-34.14	6.07

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-96.51	28.00	134.00	0.50	14.00	93.58	3.08	82.65	255.96	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-99.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	263.47	0.08	0.01
7	1.81	4	SLE Q	5	19	36.11	58.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.57	0.05	0.01
8	1.81	3	SLE F	5	19	36.11	61.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	162.08	0.05	0.01
11	3.25	4	SLE Q	9	19	36.11	-54.49	28.00	134.00	0.50	14.00	93.58	3.08	82.65	144.53	0.04	0.01
12	3.25	3	SLE F	9	19	36.11	-60.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	161.67	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	621.08	2.50	7185.75	7873.13	7185.75	11.570
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	621.08	2.50	7185.75	7873.13	7185.75	11.570
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	292.55	2.50	7185.75	7873.13	7185.75	24.563

Travata n. 15216

Nodi: 1565 -4930 -4931 -4932 -4933 -4934 -4935 -4936 -4937 1566

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	



Relazione di calcolo

0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	30.33	1506.47	49.675
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	148.75	1506.47	10.127
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	36.22	1506.47	41.590

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_{\epsilon}$ sup <daN/cm <sup>2</sup> >	$\sigma_{\epsilon}$ inf <daN/cm <sup>2</sup> >	$\sigma_c$ <daN/cm <sup>2</sup> >
0.00	2	SLE R	1	0.00	3.08	3.08	22.39	-14.03	59.37	2.49
0.00	4	SLE Q	1	0.00	3.08	3.08	19.16	-12.01	50.82	2.13
1.62	2	SLE R	5	18.06	3.08	3.08	108.29	-67.85	287.20	12.05
1.62	4	SLE Q	5	18.06	3.08	3.08	89.30	-55.95	236.84	9.94
3.25	2	SLE R	9	36.11	3.08	3.08	26.71	-16.73	70.83	2.97
3.25	4	SLE Q	9	36.11	3.08	3.08	23.09	-14.47	61.23	2.57

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cm <sup>2</sup> >	$\epsilon_{sm}$	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	19.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	50.82	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	20.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.26	0.02	0.00
7	1.62	4	SLE Q	5	19	18.06	89.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	236.84	0.07	0.01
8	1.62	3	SLE F	5	19	18.06	94.72	28.00	134.00	0.50	14.00	93.58	3.08	82.65	251.22	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	23.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.23	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	24.12	28.00	134.00	0.50	14.00	93.58	3.08	82.65	63.97	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	198.41	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	77.77	2.50	7185.75	7873.13	7185.75
1	SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	187.07	2.50	7185.75	7873.13	7185.75

Travata n. 15217

Nodi: 1583 -5248 -5249 -5250 -5251 -5252 -5253 -5254 -5255 1584

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-105.09	-1506.47	14.334
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	100.08	1506.47	15.052
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-117.97	-1506.47	12.769

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_{\epsilon}$ sup <daN/cm <sup>2</sup> >	$\sigma_{\epsilon}$ inf <daN/cm <sup>2</sup> >	$\sigma_c$ <daN/cm <sup>2</sup> >
0.00	2	SLE R	1	0.00	3.08	3.08	-74.33	197.14	-46.57	8.27
0.00	4	SLE Q	1	0.00	3.08	3.08	-52.14	138.28	-32.67	5.80
1.44	2	SLE R	5	0.00	3.08	3.08	69.79	-43.73	185.08	7.77
1.44	4	SLE Q	5	0.00	3.08	3.08	60.39	-37.84	160.17	6.72
3.23	2	SLE R	9	35.89	3.08	3.08	-85.09	225.68	-53.32	9.47
3.23	4	SLE Q	9	35.89	3.08	3.08	-80.23	212.79	-50.27	8.93

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cm <sup>2</sup> >	$\epsilon_{sm}$	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-52.14	28.00	134.00	0.50	14.00	93.58	3.08	82.65	138.28	0.04	0.01
4	0.00	3	SLE F	1	19	0.00	-58.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.04	0.05	0.01
7	1.44	4	SLE Q	5	19	0.00	60.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	160.17	0.05	0.01
8	1.44	3	SLE F	5	19	0.00	63.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	167.25	0.05	0.01
11	3.23	4	SLE Q	9	19	35.89	-80.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	212.79	0.06	0.01
12	3.23	3	SLE F	9	19	35.89	-81.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	216.70	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	296.84	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	617.68	2.50	7185.75	7873.13	7185.75
1	SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	617.68	2.50	7185.75	7873.13	7185.75

Travata n. 15259



Nodi: 1567 -4938 -4939 -4940 -4941 -4942 -4943 -4944 -4945 1568

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	34.24	1506.47	43.993
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	148.19	1506.47	10.165
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	32.25	1506.47	46.705

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	25.22	-15.80	66.90	2.81
0.00	4	SLE Q	1	0.00	3.08	3.08	21.75	-13.63	57.68	2.42
1.44	2	SLE R	5	0.00	3.08	3.08	107.85	-67.57	286.03	12.01
1.44	4	SLE Q	5	0.00	3.08	3.08	88.84	-55.66	235.61	9.89
3.25	2	SLE R	9	36.11	3.08	3.08	23.82	-14.92	63.16	2.65
3.25	4	SLE Q	9	36.11	3.08	3.08	20.42	-12.79	54.14	2.27

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	21.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.68	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	22.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	60.31	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	88.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	235.61	0.07	0.01
8	1.44	3	SLE F	5	19	0.00	94.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	250.00	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	20.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.14	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	21.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.72	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	185.84	2.50	7185.75	7873.13	7185.75	38.666
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	79.08	2.50	7185.75	7873.13	7185.75	90.866
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	199.72	2.50	7185.75	7873.13	7185.75	35.979

Travata n. 15302

Nodi: 1569 -4946 -4947 -4948 -4949 -4950 -4951 -4952 1570

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-183.56	-1506.47	8.207
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	228.24	1506.47	6.600
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-181.19	-1506.47	8.314

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-139.41	369.73	-87.35	15.52
0.00	4	SLE Q	1	0.00	3.08	3.08	-130.60	346.38	-81.83	14.54
1.45	2	SLE R	5	0.00	3.08	3.08	171.87	-107.69	455.81	19.13
1.45	4	SLE Q	5	0.00	3.08	3.08	157.94	-98.96	418.88	17.58
2.90	2	SLE R	8	36.25	3.08	3.08	-137.74	365.31	-86.30	15.33
2.90	4	SLE Q	8	36.25	3.08	3.08	-129.40	343.19	-81.08	14.40

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-130.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	346.38	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-133.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	353.04	0.10	0.02
7	1.45	4	SLE Q	5	19	0.00	157.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	418.88	0.12	0.02
8	1.45	3	SLE F	5	19	0.00	161.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	429.45	0.13	0.02
11	2.90	4	SLE Q	8	19	36.25	-129.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	343.19	0.10	0.02



Relazione di calcolo

12	2.90	3	SLE F	8	19	36.25	-131.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	349.50	0.10	0.02
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Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	876.60	2.50	7185.75	7873.13	7185.75	8.197
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	576.89	2.50	7185.75	7873.13	7185.75	12.456
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	876.54	2.50	7185.75	7873.13	7185.75	8.198

Travata n. 15345

Nodi: 1571 -4953 -4954 -4955 -4956 -4957 -4958 -4959 -4960 1572

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	37.75	1506.47	39.902
1.61	1	SLU	5	17.94	3.08	3.08	3.08	3.08	160.81	1506.47	9.368
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	35.74	1506.47	42.150

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>ε</sub> sup <daN/cmq>	σ <sub>ε</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	27.63	-17.31	73.29	3.08
0.00	4	SLE Q	1	0.00	3.08	3.08	23.61	-14.80	62.63	2.63
1.61	2	SLE R	5	17.94	3.08	3.08	116.58	-73.05	309.20	12.98
1.61	4	SLE Q	5	17.94	3.08	3.08	96.55	-60.49	256.06	10.75
3.23	2	SLE R	9	35.89	3.08	3.08	26.27	-16.46	69.66	2.92
3.23	4	SLE Q	9	35.89	3.08	3.08	22.78	-14.27	60.42	2.54

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez .	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	23.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	62.63	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	24.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	65.65	0.02	0.00
7	1.61	4	SLE Q	5	19	17.94	96.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	256.06	0.07	0.01
8	1.61	3	SLE F	5	19	17.94	102.26	28.00	134.00	0.50	14.00	93.58	3.08	82.65	271.20	0.08	0.01
11	3.23	4	SLE Q	9	19	35.89	22.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	60.42	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	23.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	63.07	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	200.11	2.50	7185.75	7873.13	7185.75	35.909
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	79.47	2.50	7185.75	7873.13	7185.75	90.424
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	188.86	2.50	7185.75	7873.13	7185.75	38.048

Travata n. 16024

Nodi: 1599 1655 -5619 1644

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-1281.14	-13043.50	10.181

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>ε</sub> sup <daN/cmq>	σ <sub>ε</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
3.32	2	SLE R	3	52.50	6.16	3.08	-845.57	247.32	-96.00	7.78
3.32	4	SLE Q	3	52.50	6.16	3.08	-426.07	124.62	-48.37	3.92

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm<sup>q> <th>A<sub>c eff</sub> &lt;cm&lt;sup&gt;q&gt;<th>σ<sub>s</sub> &lt;daN/cm&lt;sup&gt;q&gt;<th>ε<sub>sm</sub></th><th>Wk &lt;mm&gt;</th></th></th>	A <sub>c eff</sub> <cm<sup>q> <th>σ<sub>s</sub> &lt;daN/cm&lt;sup&gt;q&gt;<th>ε<sub>sm</sub></th><th>Wk &lt;mm&gt;</th></th>	σ <sub>s</sub> <daN/cm<sup>q> <th>ε<sub>sm</sub></th> <th>Wk &lt;mm&gt;</th>	ε <sub>sm</sub>	Wk <mm>
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Relazione di calcolo

3	3.32	4	SLE Q	3	16	52.50	-426.07	28.00	31.33	0.50	14.00	87.83	6.16	140.00	124.62	0.04	0.01
4	3.32	3	SLE F	3	16	52.50	-544.94	28.00	31.33	0.50	14.00	87.83	6.16	140.00	159.39	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1515.40	2.50	7619.38	26714.30	7619.38	5.028
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1515.40	2.50	7619.38	26714.30	7619.38	5.028
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2091.11	2.50	15238.80	26714.30	15238.80	7.287

Travata n. 16035

Nodi: 1601 1657 -5622 1651

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-1583.66	-13043.50	8.236

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>t</sub> sup	σ <sub>t</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.32	2	SLE R	3	52.50	6.16	3.08	-1068.64	312.57	-121.32	9.83
3.32	4	SLE Q	3	52.50	6.16	3.08	-615.57	180.05	-69.88	5.66

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-615.57	28.00	31.33	0.50	14.00	87.83	6.16	140.00	180.05	0.05	0.01
4	3.32	3	SLE F	3	16	52.50	-743.97	28.00	31.33	0.50	14.00	87.83	6.16	140.00	217.61	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1267.18	2.50	7619.38	26714.30	7619.38	6.013
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1267.18	2.50	7619.38	26714.30	7619.38	6.013
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2441.50	2.50	15238.80	26714.30	15238.80	6.242

Travata n. 17021

Nodi: 1761 -5749 -5827 -5923 -6029 1708

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	0.00	3.08	3.08	3.08	3.08	-866.79	-1506.47	1.738

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>t</sub> sup	σ <sub>t</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	0.00	3.08	3.08	-639.09	1694.97	-400.44	71.14
1.90	4	SLE Q	5	0.00	3.08	3.08	-536.27	1422.28	-336.01	59.70

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	0.00	-536.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1422.28	0.51	0.08
4	1.90	3	SLE F	5	19	0.00	-565.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1499.99	0.45	0.07

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	435.95	2.50	7185.75	7873.13	7185.75	16.483
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	452.91	2.50	7185.75	7873.13	7185.75	15.866



Travata n. 17022

Nodi: 1762 -5806 -5893 1777 1709

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
1.901	1	SLU	4	70.00	3.08	3.08	3.08	3.08	-608.26	-1506.47	2.477

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
1.902	2	SLE R	4	70.00	3.08	3.08	-446.34	1183.75	-279.66	49.69
1.904	4	SLE Q	4	70.00	3.08	3.08	-376.36	998.16	-235.81	41.90

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	4	19	70.00	-376.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	998.16	0.30	0.05	
4	1.903	SLE F	4	19	70.00	-396.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1051.16	0.31	0.05	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	641.65	2.50	7185.75	7873.13	7185.75	11.199
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	658.62	2.50	7185.75	7873.13	7185.75	10.910

Travata n. 17023

Nodi: 1763 -5807 -5894 1778 -6102 1710

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
1.901	1	SLU	5	35.06	6.03	4.02	6.03	4.02	-8215.87	-9551.64	1.163

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
1.902	2	SLE R	5	35.06	6.03	4.02	-6069.47	2375.44	-660.67	60.52
1.904	4	SLE Q	5	35.06	6.03	4.02	-5521.95	2161.15	-601.07	55.06

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	30	35.06	-5521.95	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2161.15	0.89	0.19
4	1.903	SLE F	5	30	35.06	-5678.41	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2222.39	0.84	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	3952.31	2.50	10241.80	20904.00	10241.80	2.591
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5493.31	2.50	10241.80	20904.00	10241.80	1.864

Travata n. 17024

Nodi: 1789 -6299 1799 1744

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94



Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-295.26	-2142.71	7.257

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R	3	332.00	3.08	3.08	-206.34	375.88	-100.80	13.26	
4.824	SLE Q	3	332.00	3.08	3.08	-143.99	262.30	-70.34	9.26	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q	3	18	332.00	-143.99	28.00	114.00	0.50	14.00	102.12	3.08	101.43	262.30	0.08	0.01	
4	4.823	SLE F	3	18	332.00	-161.62	28.00	114.00	0.50	14.00	102.12	3.08	101.43	294.41	0.09	0.01	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2465.51	2.50	7619.38	26714.30	7619.38	3.090
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	367.49	2.50	5079.58	10017.90	5079.58	13.822
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	396.27	2.50	5079.58	10017.90	5079.58	12.819

Travata n. 17027

Nodi: 1792 -6303 1800 1745

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-279.63	-2142.71	7.663

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R	3	332.00	3.08	3.08	-194.29	353.92	-94.91	12.49	
4.824	SLE Q	3	332.00	3.08	3.08	-135.54	246.91	-66.22	8.71	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q	3	18	332.00	-135.54	28.00	114.00	0.50	14.00	102.12	3.08	101.43	246.91	0.07	0.01	
4	4.823	SLE F	3	18	332.00	-151.99	28.00	114.00	0.50	14.00	102.12	3.08	101.43	276.87	0.08	0.01	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	3137.34	2.50	7619.38	26714.30	7619.38	2.429
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	359.24	2.50	5079.58	10017.90	5079.58	14.140
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	388.02	2.50	5079.58	10017.90	5079.58	13.091

Travata n. 17028

Nodi: 1764 -5808 -5895 1779 -6103 1711

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.09	6.03	4.02	6.03	4.02	4.02	-8470.17	-9551.64	1.128

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>



Relazione di calcolo

1.902	SLE R	5	35.09	6.03	4.02	-6255.15	2448.11	-680.88	62.37
1.904	SLE Q	5	35.09	6.03	4.02	-5679.83	2222.94	-618.26	56.63

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cm q>		<mm>
3	1.904	SLE Q	5	30	35.09	-5679.83	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2222.94	0.92	0.19	
4	1.903	SLE F	5	30	35.09	-5844.22	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2287.28	0.87	0.18	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4001.36	2.50	10241.80	20904.00	10241.80	2.560
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5547.71	2.50	10241.80	20904.00	10241.80	1.846

Travata n. 17029

Nodi: 1765 -5809 -5896 1780 1712

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	4	70.00	3.08	3.08	3.08	3.08	-620.36	-1506.47	2.428	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	4	70.00	3.08	3.08	-455.00	1206.73	-285.09	50.65	
1.904	SLE Q	4	70.00	3.08	3.08	-383.52	1017.16	-240.31	42.69	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	4	19	70.00	-383.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1017.16	0.31	0.05	
4	1.903	SLE F	4	19	70.00	-403.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1071.32	0.31	0.05	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	664.26	2.50	7185.75	7873.13	7185.75	10.818
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	681.23	2.50	7185.75	7873.13	7185.75	10.548

Travata n. 17032

Nodi: 1767 -5771 -5839 -5911 -6024 1715

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	38.00	3.08	3.08	3.08	3.08	-858.91	-1506.47	1.754	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	38.00	3.08	3.08	-633.95	1681.33	-397.21	70.57	
1.904	SLE Q	5	38.00	3.08	3.08	-532.79	1413.04	-333.83	59.31	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c off</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	19	38.00	-532.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1413.04	0.50	0.08	
4	1.903	SLE F	5	19	38.00	-561.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1489.67	0.45	0.07	

Stato limite ultimo - Verifiche a taglio



Relazione di calcolo

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	363.09	2.50	7185.75	7873.13	7185.75	19.791
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	380.05	2.50	7185.75	7873.13	7185.75	18.907

Travata n. 17033

Nodi: 1768 -5810 -5897 1781 -6105 1716

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-616.83	-1506.47	2.442

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	SLE R	5	35.44	3.08	3.08	-452.52	1200.14	-283.53		50.37
1.904	SLE Q	5	35.44	3.08	3.08	-380.42	1008.92	-238.36		42.35

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5	19	35.44	-380.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1008.92	0.31	0.05	
4	1.903	SLE F	5	19	35.44	-401.01	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1063.55	0.31	0.05	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	659.82	2.50	7185.75	7873.13	7185.75	10.890
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	676.78	2.50	7185.75	7873.13	7185.75	10.617

Travata n. 17035

Nodi: 1793 -6304 1801 1751

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08		3.08	3.08	-336.78	-2142.71	6.362

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
4.822	SLE R	3	332.00	3.08	3.08	-236.87	431.49	-115.72		15.22
4.824	SLE Q	3	332.00	3.08	3.08	-169.70	309.13	-82.90		10.91

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	4.824	SLE	Q	3	18	332.00	-169.70	28.00	114.00	0.50	14.00	102.12	3.08	101.43	309.13	0.09	0.02
4	4.823	SLE	F	3	18	332.00	-188.70	28.00	114.00	0.50	14.00	102.12	3.08	101.43	343.73	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2256.02	2.50	7619.38	26714.30	7619.38	3.377
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	384.23	2.50	5079.58	10017.90	5079.58	13.220
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	413.01	2.50	5079.58	10017.90	5079.58	12.299

Travata n. 17036

Nodi: 1769 -5811 -5898 1782 -6106 1717



Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.43	6.03	4.02	6.03	4.02	-7956.62	-9551.64	1.200

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.43	6.03	4.02	-5877.05	2300.13	-639.73	58.60
1.90	4	SLE Q	5	35.43	6.03	4.02	-5353.33	2095.16	-582.72	53.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.43	-5353.33	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2095.16	0.86	0.18
4	1.90	3	SLE F	5	30	35.43	-5502.99	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2153.73	0.81	0.17

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	3864.62	2.50	10241.80	20904.00	10241.80	2.650
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5248.98	2.50	10241.80	20904.00	10241.80	1.951

Travata n. 17040

Nodi: 1770 -5812 -5899 1783 -6107 1718

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-8228.71	-9551.64	1.161

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.41	6.03	4.02	-6078.36	2378.92	-661.64	60.61
1.90	4	SLE Q	5	35.41	6.03	4.02	-5522.49	2161.36	-601.13	55.07

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.41	-5522.49	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2161.36	0.89	0.19
4	1.90	3	SLE F	5	30	35.41	-5681.32	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2223.53	0.84	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.38	1.38	ø6/18 2 br.	3.14	0.30	3806.90	2.50	10241.80	20904.00	10241.80	2.690
1 SLU	1.38	1.90	0.52	ø6/18 2 br.	3.14	0.30	5233.37	2.50	10241.80	20904.00	10241.80	1.957

Travata n. 17041

Nodi: 1796 -6308 1802 1752

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-324.09	-2142.71	6.612



Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_{\epsilon}$ sup	$\sigma_{\epsilon}$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-227.82	415.00	-111.30	14.64
4.82	4	SLE Q	3	332.00	3.08	3.08	-164.15	299.02	-80.19	10.55

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk		
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>		
	3	4.82	4	SLE	Q	3	18	332.00	-164.15	28.00	114.00	0.50	14.00	102.12	3.08	101.43	299.02	0.09	0.02
	4	4.82	3	SLE	F	3	18	332.00	-182.02	28.00	114.00	0.50	14.00	102.12	3.08	101.43	331.57	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2796.15	2.50	7619.38	26714.30	7619.38	2.725
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	375.69	2.50	5079.58	10017.90	5079.58	13.521
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	404.48	2.50	5079.58	10017.90	5079.58	12.558

Travata n. 17042

Nodi: 1771 -5813 -5900 1784 -6108 1719

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.43	3.08	3.08	3.08	3.08	-591.61	-1506.47	2.546

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_{\epsilon}$ sup	$\sigma_{\epsilon}$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-435.26	1154.37	-272.72	48.45
1.90	4	SLE Q	5	35.43	3.08	3.08	-363.16	963.14	-227.54	40.43

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk		
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>		
	3	1.90	4	SLE	Q	5	19	35.43	-363.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	963.14	0.28	0.05
	4	1.90	3	SLE	F	5	19	35.43	-383.76	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1017.78	0.30	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	654.74	2.50	7185.75	7873.13	7185.75	10.975
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	671.71	2.50	7185.75	7873.13	7185.75	10.698

Travata n. 17070

Nodi: 1800 1656 -5621 1645

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-436.19	-6639.53	15.222

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_{\epsilon}$ sup	$\sigma_{\epsilon}$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.32	2	SLE R	3	52.50	3.08	3.08	276.50	-36.63	157.58	3.22
3.32	4	SLE Q	3	52.50	3.08	3.08	363.99	-48.22	207.44	4.24

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>



Relazione di calcolo

5	3.32	4	SLE Q	3	16	52.50	363.99	28.00	94.00	0.50	14.00	119.66	3.08	140.00	207.44	0.06	0.01
6	3.32	3	SLE F	3	16	52.50	339.57	28.00	94.00	0.50	14.00	119.66	3.08	140.00	193.53	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1928.31	2.50	7619.38	26714.30	7619.38	3.951
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2687.50	2.50	7619.38	26714.30	7619.38	2.835
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	1471.76	2.50	15238.80	26714.30	15238.80	10.354

Travata n. 17084

Nodi: 1802 1658 -5624 1652

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-1007.39	-6639.53	6.591

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
3.32	2	SLE R	3	52.50	3.08	3.08	-637.08	363.08	-84.40	7.43
3.32	4	SLE Q	3	52.50	3.08	3.08	-222.21	126.64	-29.44	2.59

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
5	3.32	4	SLE Q	3	16	52.50	-222.21	28.00	94.00	0.50	14.00	119.66	3.08	140.00	126.64	0.04	0.01
7	3.32	3	SLE F	3	16	52.50	-339.28	28.00	94.00	0.50	14.00	119.66	3.08	140.00	193.36	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1568.17	2.50	7619.38	26714.30	7619.38	4.859
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2327.36	2.50	7619.38	26714.30	7619.38	3.274
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2067.81	2.50	15238.80	26714.30	15238.80	7.370

Travata n. 17088

Nodi: 1777 -5992 -5993 -5994 -5995 -5996 -5997 -5998 1778

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-145.12	-1506.47	10.381
2.00	1	SLU	5	40.00	3.08	3.08	3.08	3.08	84.66	1506.47	17.793
3.20	1	SLU	8	40.00	3.08	3.08	3.08	3.08	-92.63	-1506.47	16.264

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-104.44	276.98	-65.44	11.63
0.00	4	SLE Q	1	0.00	3.08	3.08	-95.64	253.65	-59.92	10.65
2.00	2	SLE R	5	40.00	3.08	3.08	59.42	-37.23	157.58	6.61
2.00	4	SLE Q	5	40.00	3.08	3.08	53.47	-33.50	141.81	5.95
3.20	2	SLE R	8	40.00	3.08	3.08	-64.85	172.00	-40.63	7.22
3.20	4	SLE Q	8	40.00	3.08	3.08	-43.12	114.36	-27.02	4.80

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-95.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	253.65	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-98.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	260.34	0.08	0.01
7	2.00	4	SLE Q	5	19	40.00	53.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	141.81	0.04	0.01



Relazione di calcolo

8	2.00	3	SLE F	5	19	40.00	55.19	28.00	134.00	0.50	14.00	93.58	3.08	82.65	146.38	0.04	0.01
11	3.20	4	SLE Q	8	19	40.00	-43.12	28.00	134.00	0.50	14.00	93.58	3.08	82.65	114.36	0.03	0.01
12	3.20	3	SLE F	8	19	40.00	-49.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	130.75	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	493.25	2.50	7185.75	7873.13	7185.75	14.568
1 SLU	0.14	3.06	2.91	ø6/ 8 2 br.	7.07	0.20	493.25	2.50	7185.75	7873.13	7185.75	14.568
1 SLU	3.06	3.20	0.14	ø6/ 8 2 br.	7.07	0.20	305.31	2.50	7185.75	7873.13	7185.75	23.536

Travata n. 17130

Nodi: 1761 -5681 -5682 -5683 -5684 -5685 -5686 -5687 -5688 1762

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	34.08	1506.47	44.210
1.62	1	SLU	5	17.08	3.08	3.08	3.08	3.08	148.86	1506.47	10.120
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	32.96	1506.47	45.708

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	25.00	-15.67	66.31	2.78
0.00	4	SLE Q	1	0.00	3.08	3.08	21.46	-13.45	56.91	2.39
1.62	2	SLE R	5	17.08	3.08	3.08	108.06	-67.71	286.60	12.03
1.62	4	SLE Q	5	17.08	3.08	3.08	88.69	-55.57	235.21	9.87
3.25	2	SLE R	9	36.11	3.08	3.08	24.30	-15.22	64.44	2.70
3.25	4	SLE Q	9	36.11	3.08	3.08	20.75	-13.00	55.04	2.31

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
3	0.00	4	SLE Q	1	19	0.00	21.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.91	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	22.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.58	0.02	0.00
7	1.62	4	SLE Q	5	19	17.08	88.69	28.00	134.00	0.50	14.00	93.58	3.08	82.65	235.21	0.07	0.01
8	1.62	3	SLE F	5	19	17.08	94.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	249.83	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	20.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.04	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	21.76	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.72	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	188.81	2.50	7185.75	7873.13	7185.75	38.058
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	75.54	2.50	7185.75	7873.13	7185.75	95.123
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	196.18	2.50	7185.75	7873.13	7185.75	36.628

Travata n. 17131

Nodi: 1779 -5999 -6000 -6001 -6002 -6003 -6004 -6005 1780

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-90.37	-1506.47	16.670
1.19	1	SLU	4	0.00	3.08	3.08	3.08	3.08	83.63	1506.47	18.014
3.18	1	SLU	8	39.75	3.08	3.08	3.08	3.08	-158.04	-1506.47	9.532

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-63.48	168.34	-39.77	7.07
0.00	4	SLE Q	1	0.00	3.08	3.08	-42.04	111.49	-26.34	4.68
1.19	2	SLE R	4	0.00	3.08	3.08	58.48	-36.64	155.11	6.51



Relazione di calcolo

1.194	SLE Q	4	0.00	3.08	3.08	52.47	-32.88	139.15	5.84
3.182	SLE R	8	39.75	3.08	3.08	-114.07	302.52	-71.47	12.70
3.184	SLE Q	8	39.75	3.08	3.08	-104.44	277.00	-65.44	11.63

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c off</sub> <cmq>	σ <sub>s</sub> <daN/cm <sup>2</sup> >	ε <sub>sm</sub>	W <sub>k</sub> <mm>
3	0.004	SLE	Q	1	19	0.00	-42.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	111.49	0.03	0.01
5	0.003	SLE	F	1	19	0.00	-48.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	127.65	0.04	0.01
8	1.194	SLE	Q	4	19	0.00	52.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	139.15	0.04	0.01
9	1.193	SLE	F	4	19	0.00	54.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	143.77	0.04	0.01
12	3.184	SLE	Q	8	19	39.75	-104.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	277.00	0.08	0.01
13	3.183	SLE	F	8	19	39.75	-107.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	284.36	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	354.70	2.50	7185.75	7873.13	7185.75	20.258
1 SLU	0.14	3.04	2.89	ø6/ 8 2 br.	7.07	0.20	468.61	2.50	7185.75	7873.13	7185.75	15.334
1 SLU	3.04	3.18	0.14	ø6/ 8 2 br.	7.07	0.20	468.61	2.50	7185.75	7873.13	7185.75	15.334

Travata n. 17173

Nodi: 1763 -5689 -5690 -5691 -5692 -5693 -5694 -5695 1764

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-176.24	-1506.47	8.548
1.311	SLU	4	18.75	3.08	3.08	3.08	3.08	3.08	244.81	1506.47	6.153
3.001	SLU	8	37.50	3.08	3.08	3.08	3.08	3.08	-198.95	-1506.47	7.572

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-134.35	356.32	-84.18	14.96
0.00	4	SLE Q	1	0.00	3.08	3.08	-126.73	336.12	-79.41	14.11
1.31	2	SLE R	4	18.75	3.08	3.08	183.95	-115.26	487.86	20.48
1.31	4	SLE Q	4	18.75	3.08	3.08	168.62	-105.65	447.20	18.77
3.00	2	SLE R	8	37.50	3.08	3.08	-150.93	400.28	-94.57	16.80
3.00	4	SLE Q	8	37.50	3.08	3.08	-140.91	373.71	-88.29	15.69

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cm <sup>2</sup> >	ε <sub>sm</sub>	W <sub>k</sub> <mm>
3	0.004	SLE Q	1	19	0.00	-126.73	28.00	134.00	0.50	14.00	93.58	3.08	82.65	336.12	0.10	0.02	
4	0.003	SLE F	1	19	0.00	-128.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	341.89	0.10	0.02	
7	1.314	SLE Q	4	19	18.75	168.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	447.20	0.13	0.02	
8	1.313	SLE F	4	19	18.75	173.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	458.82	0.13	0.02	
11	3.004	SLE Q	8	19	37.50	-140.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	373.71	0.11	0.02	
12	3.003	SLE F	8	19	37.50	-143.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	381.30	0.11	0.02	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	870.14	2.50	7185.75	7873.13	7185.75	8.258
1 SLU	0.14	2.85	2.71	ø6/ 8 2 br.	7.07	0.20	605.54	2.50	7185.75	7873.13	7185.75	11.867
1 SLU	2.85	3.00	0.14	ø6/ 8 2 br.	7.07	0.20	905.26	2.50	7185.75	7873.13	7185.75	7.938

Travata n. 17174

Nodi: 1781 -6006 -6007 -6008 -6009 -6010 -6011 -6012 -6013 1782

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
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Relazione di calcolo

0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-142.34	-1506.47	10.584
1.81	1	SLU	5	36.11	3.08	3.08	3.08	3.08	105.41	1506.47	14.292
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-90.27	-1506.47	16.688

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_e$ sup <daN/cm <sup>2</sup> >	$\sigma_e$ inf <daN/cm <sup>2</sup> >	$\sigma_c$ <daN/cm <sup>2</sup> >
0.00	2	SLE R	1	0.00	3.08	3.08	-102.22	271.12	-64.05	11.38
0.00	4	SLE Q	1	0.00	3.08	3.08	-93.62	248.30	-58.66	10.42
1.81	2	SLE R	5	36.11	3.08	3.08	73.83	-46.26	195.80	8.22
1.81	4	SLE Q	5	36.11	3.08	3.08	64.54	-40.44	171.17	7.18
3.25	2	SLE R	9	36.11	3.08	3.08	-63.10	167.36	-39.54	7.02
3.25	4	SLE Q	9	36.11	3.08	3.08	-41.65	110.47	-26.10	4.64

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm <sup>2</sup> >	A <sub>c eff</sub> <cm <sup>2</sup> >	$\sigma_s$ <daN/cm <sup>2</sup> >	$\epsilon_{sm}$	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-93.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	248.30	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-96.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	254.90	0.07	0.01
7	1.81	4	SLE Q	5	19	36.11	64.54	28.00	134.00	0.50	14.00	93.58	3.08	82.65	171.17	0.05	0.01
8	1.81	3	SLE F	5	19	36.11	67.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	178.24	0.05	0.01
11	3.25	4	SLE Q	9	19	36.11	-41.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	110.47	0.03	0.01
12	3.25	3	SLE F	9	19	36.11	-47.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	126.64	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	563.24	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	563.24	2.50	7185.75	7873.13	7185.75
1	SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	323.53	2.50	7185.75	7873.13	7185.75

Travata n. 17216

Nodi: 1765 -5696 -5697 -5698 -5699 -5700 -5701 -5702 -5703 1766

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	31.71	1506.47	47.503
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	146.20	1506.47	10.304
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	34.00	1506.47	44.306

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_e$ sup <daN/cm <sup>2</sup> >	$\sigma_e$ inf <daN/cm <sup>2</sup> >	$\sigma_c$ <daN/cm <sup>2</sup> >
0.00	2	SLE R	1	0.00	3.08	3.08	23.40	-14.66	62.05	2.60
0.00	4	SLE Q	1	0.00	3.08	3.08	20.00	-12.53	53.05	2.23
1.62	2	SLE R	5	18.06	3.08	3.08	106.41	-66.67	282.22	11.85
1.62	4	SLE Q	5	18.06	3.08	3.08	87.70	-54.95	232.59	9.76
3.25	2	SLE R	9	36.11	3.08	3.08	25.08	-15.71	66.51	2.79
3.25	4	SLE Q	9	36.11	3.08	3.08	21.70	-13.59	57.54	2.42

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm <sup>2</sup> >	A <sub>c eff</sub> <cm <sup>2</sup> >	$\sigma_s$ <daN/cm <sup>2</sup> >	$\epsilon_{sm}$	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	20.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.05	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	20.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.62	0.02	0.00
7	1.62	4	SLE Q	5	19	18.06	87.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	232.59	0.07	0.01
8	1.62	3	SLE F	5	19	18.06	93.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	246.75	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	21.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.54	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	22.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	60.10	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	194.32	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	73.68	2.50	7185.75	7873.13	7185.75
1	SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	189.16	2.50	7185.75	7873.13	7185.75

Travata n. 17217



Nodi: 1783 -6014 -6015 -6016 -6017 -6018 -6019 -6020 -6021 1784

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-72.44	-1506.47	20.795
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	123.40	1506.47	12.208
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-115.22	-1506.47	13.075

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-50.26	133.30	-31.49	5.59
0.00	4	SLE Q	1	0.00	3.08	3.08	-30.65	81.30	-19.21	3.41
1.44	2	SLE R	5	0.00	3.08	3.08	86.85	-54.42	230.34	9.67
1.44	4	SLE Q	5	0.00	3.08	3.08	75.07	-47.03	199.09	8.36
3.23	2	SLE R	9	35.89	3.08	3.08	-83.41	221.22	-52.26	9.29
3.23	4	SLE Q	9	35.89	3.08	3.08	-79.74	211.47	-49.96	8.88

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
4	0.00	4	SLE Q	1	19	0.00	-30.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	81.30	0.02	0.00
6	0.00	3	SLE F	1	19	0.00	-36.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	96.04	0.03	0.00
10	1.44	4	SLE Q	5	19	0.00	75.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	199.09	0.06	0.01
11	1.44	3	SLE F	5	19	0.00	78.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	207.98	0.06	0.01
14	3.23	4	SLE Q	9	19	35.89	-79.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	211.47	0.06	0.01
15	3.23	3	SLE F	9	19	35.89	-80.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	214.61	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm²/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	433.51	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	471.22	2.50	7185.75	7873.13	7185.75
1	SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	471.22	2.50	7185.75	7873.13	7185.75

Travata n. 17259

Nodi: 1767 -5704 -5705 -5706 -5707 -5708 -5709 -5710 -5711 1768

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	31.71	1506.47	47.505
1.62	1	SLU	5	17.68	3.08	3.08	3.08	3.08	146.71	1506.47	10.268
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	34.54	1506.47	43.611

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	23.36	-14.64	61.95	2.60
0.00	4	SLE Q	1	0.00	3.08	3.08	20.15	-12.63	53.44	2.24
1.62	2	SLE R	5	17.68	3.08	3.08	106.74	-66.88	283.10	11.88
1.62	4	SLE Q	5	17.68	3.08	3.08	87.87	-55.05	233.03	9.78
3.25	2	SLE R	9	36.11	3.08	3.08	25.49	-15.97	67.61	2.84
3.25	4	SLE Q	9	36.11	3.08	3.08	21.81	-13.67	57.86	2.43

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	20.15	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.44	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	21.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.87	0.02	0.00
7	1.62	4	SLE Q	5	19	17.68	87.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	233.03	0.07	0.01
8	1.62	3	SLE F	5	19	17.68	93.25	28.00	134.00	0.50	14.00	93.58	3.08	82.65	247.32	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	21.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.86	0.02	0.00



Relazione di calcolo

12	3.25	3	SLE F	9	19	36.11	22.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	60.64	0.02	0.00
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Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	188.26	2.50	7185.75	7873.13	7185.75	38.169
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	75.54	2.50	7185.75	7873.13	7185.75	95.121
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	196.18	2.50	7185.75	7873.13	7185.75	36.628

Travata n. 17302

Nodi: 1769 -5712 -5713 -5714 -5715 -5716 -5717 -5718 1770

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-166.39	-1506.47	9.054
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	231.00	1506.47	6.521
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-196.01	-1506.47	7.685

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-126.80	336.28	-79.45	14.11
0.00	4	SLE Q	1	0.00	3.08	3.08	-119.86	317.88	-75.10	13.34
1.45	2	SLE R	5	0.00	3.08	3.08	173.90	-108.96	461.22	19.36
1.45	4	SLE Q	5	0.00	3.08	3.08	159.74	-100.09	423.64	17.78
2.90	2	SLE R	8	36.25	3.08	3.08	-148.60	394.10	-93.11	16.54
2.90	4	SLE Q	8	36.25	3.08	3.08	-138.53	367.41	-86.80	15.42

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-119.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	317.88	0.09	0.01
4	0.00	3	SLE F	1	19	0.00	-121.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	323.13	0.09	0.01
7	1.45	4	SLE Q	5	19	0.00	159.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	423.64	0.12	0.02
8	1.45	3	SLE F	5	19	0.00	163.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	434.38	0.13	0.02
11	2.90	4	SLE Q	8	19	36.25	-138.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	367.41	0.11	0.02
12	2.90	3	SLE F	8	19	36.25	-141.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	375.03	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	851.80	2.50	7185.75	7873.13	7185.75	8.436
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	605.23	2.50	7185.75	7873.13	7185.75	11.873
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	904.95	2.50	7185.75	7873.13	7185.75	7.941

Travata n. 17345

Nodi: 1771 -5719 -5720 -5721 -5722 -5723 -5724 -5725 -5726 1772

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	41.10	1506.47	36.649
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	155.83	1506.47	9.667
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	30.50	1506.47	49.386

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	30.06	-18.84	79.73	3.35
0.00	4	SLE Q	1	0.00	3.08	3.08	25.70	-16.10	68.15	2.86
1.44	2	SLE R	5	0.00	3.08	3.08	112.93	-70.76	299.51	12.57
1.44	4	SLE Q	5	0.00	3.08	3.08	93.73	-58.73	248.57	10.43
3.23	2	SLE R	9	35.89	3.08	3.08	22.46	-14.08	59.58	2.50



Relazione di calcolo

3.23	4	SLE Q	9	35.89	3.08	3.08	19.63	-12.30	52.06	2.19
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Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	25.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	68.15	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	26.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	71.43	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	93.73	28.00	134.00	0.50	14.00	93.58	3.08	82.65	248.57	0.07	0.01
8	1.44	3	SLE F	5	19	0.00	99.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	263.14	0.08	0.01
11	3.23	4	SLE Q	9	19	35.89	19.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.06	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	20.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.24	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	191.95	2.50	7185.75	7873.13	7185.75	37.435
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	72.66	2.50	7185.75	7873.13	7185.75	98.901
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	193.30	2.50	7185.75	7873.13	7185.75	37.175

Travata n. 18024

Nodi: 1799 1855 -6384 1844

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-1872.95	-13043.50	6.964	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.322	SLE R	3	52.50	6.16	3.08	-1277.52	373.66	-145.03	11.76	
3.324	SLE Q	3	52.50	6.16	3.08	-800.88	234.25	-90.92	7.37	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-800.88	28.00	31.33	0.50	14.00	87.83	6.16	140.00	234.25	0.07	0.01
4	3.32	3	SLE F	3	16	52.50	-935.13	28.00	31.33	0.50	14.00	87.83	6.16	140.00	273.52	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1125.79	2.50	7619.38	26714.30	7619.38	6.768
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1125.79	2.50	7619.38	26714.30	7619.38	6.768
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2773.39	2.50	15238.80	26714.30	15238.80	5.495

Travata n. 18035

Nodi: 1801 1857 -6387 1851

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-2110.88	-13043.50	6.179	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.322	SLE R	3	52.50	6.16	3.08	-1451.36	424.51	-164.77	13.36	
3.324	SLE Q	3	52.50	6.16	3.08	-944.89	276.37	-107.27	8.69	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>



Relazione di calcolo

3	3.32	4	SLE Q	3	16	52.50	-944.89	28.00	31.33	0.50	14.00	87.83	6.16	140.00	276.37	0.08	0.01
4	3.32	3	SLE F	3	16	52.50	-1087.49	28.00	31.33	0.50	14.00	87.83	6.16	140.00	318.08	0.09	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1087.41	2.50	7619.38	26714.30	7619.38	7.007
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	884.81	2.50	7619.38	26714.30	7619.38	8.611
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	3067.52	2.50	15238.80	26714.30	15238.80	4.968

Travata n. 18052

Nodi: -6391 1845

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
26	R	30.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.30	1	SLU	1	130.00	4.02	4.02	4.02	4.02	102.30	2704.33	26.436

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.30	2	SLE R	1	130.00	4.02	4.02	68.94	-21.17	95.17	3.01
1.30	4	SLE Q	1	130.00	4.02	4.02	55.55	-17.06	76.70	2.42

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
6	1.30	4	SLE Q	1	26	130.00	55.55	27.00	232.00	0.50	16.00	130.55	4.02	174.06	76.70	0.02	0.00
8	1.30	3	SLE F	1	26	130.00	58.94	27.00	232.00	0.50	16.00	130.55	4.02	174.06	81.37	0.02	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.08	1.08	ø6/14 2 br.	4.04	0.30	530.61	2.50	5805.24	9215.72	5805.24	10.941
1 SLU	1.08	1.30	0.22	ø6/14 2 br.	4.04	0.30	651.09	2.50	5805.24	9215.72	5805.24	8.916

Travata n. 19021

Nodi: 1961 -6535 -6592 -6676 -6791 1908

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	0.00	3.08	3.08	3.08	3.08	-942.70	-1506.47	1.598

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.90	2	SLE R	5	0.00	3.08	3.08	-695.12	1843.56	-435.54	77.38
1.90	4	SLE Q	5	0.00	3.08	3.08	-581.95	1543.40	-364.63	64.78

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	1.90	4	SLE Q	5	19	0.00	-581.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1543.40	0.57	0.09
4	1.90	3	SLE F	5	19	0.00	-614.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1629.70	0.52	0.08

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	516.88	2.50	7185.75	7873.13	7185.75	13.902
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	533.85	2.50	7185.75	7873.13	7185.75	13.460



Travata n. 19022

Nodi: 1962 -6571 -6658 1977 1909

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		4	70.00	3.08	3.08	3.08	3.08	-540.22	-1506.47	2.789

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>r</sub> sup	σ <sub>r</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		4	70.00	3.08	3.08	-396.18	1050.72	-248.23	44.10
1.904	SLE Q		4	70.00	3.08	3.08	-329.14	872.93	-206.23	36.64

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		4	19	70.00	-329.14	28.00	134.00	0.50	14.00	93.58	3.08	82.65	872.93	0.25	0.04
4	1.903	SLE F		4	19	70.00	-348.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	923.25	0.27	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	554.21	2.50	7185.75	7873.13	7185.75	12.966
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	571.18	2.50	7185.75	7873.13	7185.75	12.581

Travata n. 19023

Nodi: 1963 -6572 -6659 1978 -6867 1910

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	35.06	4.02	4.02	4.02	4.02	-4878.37	-6450.78	1.322

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>r</sub> sup	σ <sub>r</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.06	4.02	4.02	-3602.14	2086.01	-420.76	41.65
1.904	SLE Q		5	35.06	4.02	4.02	-3075.63	1781.11	-359.26	35.57

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	30	35.06	-3075.63	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1781.11	0.64	0.32
4	1.903	SLE F		5	30	35.06	-3225.17	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1867.71	0.56	0.28

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	2605.67	2.50	10241.80	20904.00	10241.80	3.931
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	3662.09	2.50	10241.80	20904.00	10241.80	2.797

Travata n. 19024

Nodi: 1989 -7064 1999 1944

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione



Relazione di calcolo

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-283.63	-2142.71	7.555

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-198.36	361.34	-96.90	12.75
4.82	4	SLE Q	3	332.00	3.08	3.08	-135.61	247.03	-66.25	8.72

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk		
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>		
	3	4.82	4	SLE	Q	3	18	332.00	-135.61	28.00	114.00	0.50	14.00	102.12	3.08	101.43	247.03	0.07	0.01
	4	4.82	3	SLE	F	3	18	332.00	-152.58	28.00	114.00	0.50	14.00	102.12	3.08	101.43	277.95	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	419.79	2.50	7619.38	26714.30	18.151
1	SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	375.53	2.50	5079.58	10017.90	13.526
1	SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	404.31	2.50	5079.58	10017.90	12.563

Travata n. 19027

Nodi: 1992 -7068 2000 1945

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-374.64	-2142.71	5.719

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-268.43	488.98	-131.13	17.25
4.82	4	SLE Q	3	332.00	3.08	3.08	-210.78	383.96	-102.97	13.55

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk		
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>		
	3	4.82	4	SLE	Q	3	18	332.00	-210.78	28.00	114.00	0.50	14.00	102.12	3.08	101.43	383.96	0.11	0.02
	4	4.82	3	SLE	F	3	18	332.00	-227.31	28.00	114.00	0.50	14.00	102.12	3.08	101.43	414.07	0.12	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2732.88	2.50	7619.38	26714.30	2.788
1	SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	409.00	2.50	5079.58	10017.90	12.420
1	SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	437.78	2.50	5079.58	10017.90	11.603

Travata n. 19028

Nodi: 1964 -6573 -6660 1979 -6868 1911

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.09	4.02	4.02	4.02	4.02	-5282.25	-6450.78	1.221

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.09	4.02	4.02	-3898.65	2257.72	-455.40	45.08



Relazione di calcolo

1.904	SLE Q	5	35.09	4.02	4.02	-3323.86	1924.86	-388.26	38.44
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Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cm q>		<mm>
3	1.904	SLE Q	5	30	35.09	-3323.86	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1924.86	0.71	0.35	
4	1.903	SLE F	5	30	35.09	-3487.20	27.00	232.00	0.50	16.00	294.62	4.02	262.50	2019.45	0.64	0.32	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	2640.92	2.50	10241.80	20904.00	10241.80	3.878
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	3707.79	2.50	10241.80	20904.00	10241.80	2.762

Travata n. 19029

Nodi: 1965 -6574 -6661 1980 1912

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	4	70.00	3.08	3.08	3.08	3.08	-555.29	-1506.47	2.713	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	4	70.00	3.08	3.08	-406.97	1079.34	-255.00	45.30	
1.904	SLE Q	4	70.00	3.08	3.08	-337.82	895.94	-211.66	37.61	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
3	1.904	SLE Q	4	19	70.00	-337.82	28.00	134.00	0.50	14.00	93.58	3.08	82.65	895.94	0.26	0.04	
4	1.903	SLE F	4	19	70.00	-357.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	947.84	0.28	0.04	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	594.09	2.50	7185.75	7873.13	7185.75	12.095
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	611.06	2.50	7185.75	7873.13	7185.75	11.759

Travata n. 19032

Nodi: 1967 -6532 -6603 -6682 -6792 1915

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	38.00	3.08	3.08	3.08	3.08	3.08	-935.36	-1506.47	1.611

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	38.00	3.08	3.08	-690.02	1830.04	-432.35	76.81	
1.904	SLE Q	5	38.00	3.08	3.08	-577.00	1530.28	-361.53	64.23	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
3	1.904	SLE Q	5	19		38.00	-577.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1530.28	0.56	0.09
4	1.903	SLE F	5	19		38.00	-609.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1616.20	0.51	0.08

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
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Relazione di calcolo

	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	494.78	2.50	7185.75	7873.13	7185.75	14.523
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	511.74	2.50	7185.75	7873.13	7185.75	14.042

Travata n. 19033

Nodi: 1968 -6575 -6662 1981 -6870 1916

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.901	SLU	5		35.44	3.08	3.08	3.08	3.08	-557.36	-1506.47	2.703

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.902	SLE R	5		35.44	3.08	3.08	-408.73	1084.00	-256.10	45.50
1.904	SLE Q	5		35.44	3.08	3.08	-338.72	898.34	-212.23	37.71

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	1.904	SLE Q	5	19		35.44	-338.72	28.00	134.00	0.50	14.00	93.58	3.08	82.65	898.34	0.26	0.04
4	1.903	SLE F	5	19		35.44	-358.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	950.86	0.28	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	589.15	2.50	7185.75	7873.13	7185.75	12.197
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	606.11	2.50	7185.75	7873.13	7185.75	11.855

Travata n. 19035

Nodi: 1993 -7069 2001 1951

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R		18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
4.821	SLU	3		332.00	3.08	3.08	3.08	3.08	-341.64	-2142.71	6.272

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
4.822	SLE R	3		332.00	3.08	3.08	-240.20	437.55	-117.34	15.44
4.824	SLE Q	3		332.00	3.08	3.08	-170.31	310.24	-83.20	10.95

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	4.824	SLE Q	3	18		332.00	-170.31	28.00	114.00	0.50	14.00	102.12	3.08	101.43	310.24	0.09	0.02
4	4.823	SLE F	3	18		332.00	-189.28	28.00	114.00	0.50	14.00	102.12	3.08	101.43	344.79	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	435.42	2.50	7619.38	26714.30	7619.38	17.499
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	401.50	2.50	5079.58	10017.90	5079.58	12.652
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	430.28	2.50	5079.58	10017.90	5079.58	11.805

Travata n. 19036

Nodi: 1969 -6576 -6663 1982 -6871 1917

Caratteristiche delle sezioni e dei materiali utilizzati



Relazione di calcolo

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.43	4.02	4.02	4.02	4.02	-4698.59	-6450.78	1.373

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	$\sigma_f$ sup <daN/cm>	$\sigma_f$ inf <daN/cm>	$\sigma_c$ <daN/cm>
1.90	2	SLE R	5	35.43	4.02	4.02	-3468.72	2008.75	-405.18	40.11
1.90	4	SLE Q	5	35.43	4.02	4.02	-2963.84	1716.37	-346.20	34.27

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	$\sigma_s$ <daN/cm>	$\epsilon_{sm}$	Wk <mm>
3	1.90	4	SLE Q	5	30	35.43	-2963.84	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1716.37	0.61	0.30
4	1.90	3	SLE F	5	30	35.43	-3107.23	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1799.41	0.53	0.27

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	2556.42	2.50	10241.80	20904.00	10241.80	4.006
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3503.15	2.50	10241.80	20904.00	10241.80	2.924

Travata n. 19040

Nodi: 1970 -6577 -6664 1983 -6872 1918

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-5131.62	-9551.64	1.861

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	$\sigma_f$ sup <daN/cm>	$\sigma_f$ inf <daN/cm>	$\sigma_c$ <daN/cm>
1.90	2	SLE R	5	35.41	6.03	4.02	-3789.54	1483.13	-412.50	37.79
1.90	4	SLE Q	5	35.41	6.03	4.02	-3232.95	1265.30	-351.91	32.24

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	$\sigma_s$ <daN/cm>	$\epsilon_{sm}$	Wk <mm>
3	1.90	4	SLE Q	5	30	35.41	-3232.95	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1265.30	0.45	0.10
4	1.90	3	SLE F	5	30	35.41	-3391.18	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1327.22	0.40	0.09

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.38	1.38	ø6/18 2 br.	3.14	0.30	2514.87	2.50	10241.80	20904.00	10241.80	4.072
1 SLU	1.38	1.90	0.52	ø6/18 2 br.	3.14	0.30	3481.18	2.50	10241.80	20904.00	10241.80	2.942

Travata n. 19041

Nodi: 1996 -7073 2002 1952

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-369.96	-2142.71	5.792

Stato limite d'esercizio - Verifiche tensionali



Relazione di calcolo

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cmq>	$\sigma_f$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-265.08	482.87	-129.50	17.04
4.82	4	SLE Q	3	332.00	3.08	3.08	-208.66	380.09	-101.93	13.41

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	4.82	4	SLE Q	3	18	332.00	-208.66	28.00	114.00	0.50	14.00	102.12	3.08	101.43	380.09	0.11	0.02
4	4.82	3	SLE F	3	18	332.00	-224.83	28.00	114.00	0.50	14.00	102.12	3.08	101.43	409.55	0.12	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2373.73	2.50	7619.38	26714.30	7619.38	3.210
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	401.69	2.50	5079.58	10017.90	5079.58	12.646
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	430.47	2.50	5079.58	10017.90	5079.58	11.800

Travata n. 19042

Nodi: 1971 -6578 -6665 1984 -6873 1919

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.43	3.08	3.08	3.08	3.08	-562.23	-1506.47	2.679

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cmq>	$\sigma_f$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-411.51	1091.39	-257.84	45.81
1.90	4	SLE Q	5	35.43	3.08	3.08	-340.28	902.47	-213.21	37.88

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	1.90	4	SLE Q	5	19	35.43	-340.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	902.47	0.26	0.04
4	1.90	3	SLE F	5	19	35.43	-360.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	955.81	0.28	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	621.66	2.50	7185.75	7873.13	7185.75	11.559
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	638.63	2.50	7185.75	7873.13	7185.75	11.252

Travata n. 19070

Nodi: 2000 1856 -6386 1845

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
3.32	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-1102.74	-6639.53	6.021

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cmq>	$\sigma_f$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
3.32	2	SLE R	3	52.50	3.08	3.08	-682.92	389.21	-90.48	7.96
3.32	4	SLE Q	3	52.50	3.08	3.08	-246.66	140.57	-32.68	2.88

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
5	3.32	4	SLE Q	3	16	52.50	-246.66	28.00	94.00	0.50	14.00	119.66	3.08	140.00	140.57	0.04	0.01



Relazione di calcolo

7	3.32	3	SLE F	3	16	52.50	-366.48	28.00	94.00	0.50	14.00	119.66	3.08	140.00	208.86	0.06	0.01
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Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1694.85	2.50	7619.38	26714.30	7619.38	4.496
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2454.04	2.50	7619.38	26714.30	7619.38	3.105
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2214.45	2.50	15238.80	26714.30	15238.80	6.881

Travata n. 19084

Nodi: 2002 1858 -6389 1852

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	3.08	-1670.10	-6639.53	3.976

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
3.322	SLE R	3	52.50	3.08	3.08	-1105.96	630.30	-146.52	12.89	
3.324	SLE Q	3	52.50	3.08	3.08	-602.12	343.16	-79.77	7.02	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.324	SLE Q	3	16	52.50	-602.12	28.00	94.00	0.50	14.00	119.66	3.08	140.00		343.16	0.10	0.02
5	3.323	SLE F	3	16	52.50	-741.55	28.00	94.00	0.50	14.00	119.66	3.08	140.00		422.62	0.12	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1363.05	2.50	7619.38	26714.30	7619.38	5.590
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2122.24	2.50	7619.38	26714.30	7619.38	3.590
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2768.03	2.50	15238.80	26714.30	15238.80	5.505

Travata n. 19088

Nodi: 1977 -6757 -6758 -6759 -6760 -6761 -6762 -6763 1978

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-118.26	-1506.47	12.739
1.601	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	90.14	1506.47	16.712
3.201	SLU	8	40.00	3.08	3.08	3.08	3.08	3.08	-108.57	-1506.47	13.875

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	-84.79	224.86	-53.12	9.44	
0.004	SLE Q	1	0.00	3.08	3.08	-72.21	191.51	-45.24	8.04	
1.602	SLE R	5	0.00	3.08	3.08	62.82	-39.36	166.60	6.99	
1.604	SLE Q	5	0.00	3.08	3.08	49.53	-31.04	131.37	5.51	
3.202	SLE R	8	40.00	3.08	3.08	-75.85	201.16	-47.52	8.44	
3.204	SLE Q	8	40.00	3.08	3.08	-53.14	140.94	-33.30	5.92	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE Q	1	19	0.00	-72.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	191.51	0.06	0.01	
4	0.003	SLE F	1	19	0.00	-75.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	200.15	0.06	0.01	
7	1.604	SLE Q	5	19	0.00	49.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	131.37	0.04	0.01	
8	1.603	SLE F	5	19	0.00	52.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.25	0.04	0.01	



Relazione di calcolo

11	3.204	SLE Q	8	19	40.00	-53.14	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.94	0.04	0.01
12	3.203	SLE F	8	19	40.00	-59.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	157.32	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	501.37	2.50	7185.75	7873.13	7185.75	14.332
1 SLU	0.14	3.06	2.91	ø6/ 8 2 br.	7.07	0.20	501.37	2.50	7185.75	7873.13	7185.75	14.332
1 SLU	3.06	3.20	0.14	ø6/ 8 2 br.	7.07	0.20	57.14	2.50	7185.75	7873.13	7185.75	>100

Travata n. 19130

Nodi: 1961 -6446 -6447 -6448 -6449 -6450 -6451 -6452 -6453 1962

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	33.33	1506.47	45.196
1.621	SLU	5	18.06	3.08	3.08	3.08	3.08	3.08	152.99	1506.47	9.847
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	36.11	1506.47	41.720

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	24.46	-15.33	64.88	2.72	
0.004	SLE Q	1	0.00	3.08	3.08	20.91	-13.10	55.46	2.33	
1.622	SLE R	5	18.06	3.08	3.08	111.14	-69.64	294.77	12.37	
1.624	SLE Q	5	18.06	3.08	3.08	90.06	-56.43	238.86	10.03	
3.252	SLE R	9	36.11	3.08	3.08	26.62	-16.68	70.61	2.96	
3.254	SLE Q	9	36.11	3.08	3.08	22.48	-14.08	59.62	2.50	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm<sup>q>	A <sub>c eff</sub> <cm<sup>q>	σ <sub>s</sub> <daN/cm<sup>q>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	20.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.46	0.02	0.00
4	0.003	SLE	F	1	19	0.00	21.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	58.12	0.02	0.00
7	1.624	SLE	Q	5	19	18.06	90.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	238.86	0.07	0.01
8	1.623	SLE	F	5	19	18.06	96.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	254.61	0.07	0.01
11	3.254	SLE	Q	9	19	36.11	22.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.62	0.02	0.00
12	3.253	SLE	F	9	19	36.11	23.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	62.74	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	192.68	2.50	7185.75	7873.13	7185.75	37.294
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	73.65	2.50	7185.75	7873.13	7185.75	97.568
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	194.29	2.50	7185.75	7873.13	7185.75	36.984

Travata n. 19131

Nodi: 1979 -6764 -6765 -6766 -6767 -6768 -6769 -6770 1980

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-90.82	-1506.47	16.587
1.191	SLU	4	0.00	3.08	3.08	3.08	3.08	3.08	88.46	1506.47	17.031
3.181	SLU	8	39.75	3.08	3.08	3.08	3.08	3.08	-141.75	-1506.47	10.628

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	-62.93	166.89	-39.43	7.00
0.004	SLE	Q	1	0.00	3.08	3.08	-42.55	112.85	-26.66	4.74
1.192	SLE	R	4	0.00	3.08	3.08	62.14	-38.94	164.81	6.92
1.194	SLE	Q	4	0.00	3.08	3.08	49.81	-31.21	132.11	5.55



Relazione di calcolo

3.18	2	SLE R	8	39.75	3.08	3.08	-102.21	271.07	-64.04	11.38
3.18	4	SLE Q	8	39.75	3.08	3.08	-87.28	231.47	-54.68	9.72

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-42.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	112.85	0.03	0.01
4	0.00	3	SLE F	1	19	0.00	-48.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	127.49	0.04	0.01
7	1.19	4	SLE Q	4	19	0.00	49.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	132.11	0.04	0.01
8	1.19	3	SLE F	4	19	0.00	52.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.49	0.04	0.01
11	3.18	4	SLE Q	8	19	39.75	-87.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	231.47	0.07	0.01
12	3.18	3	SLE F	8	19	39.75	-91.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	241.87	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	166.69	2.50	7185.75	7873.13	7185.75	43.108
1 SLU	0.14	3.04	2.89	ø6/ 8 2 br.	7.07	0.20	432.81	2.50	7185.75	7873.13	7185.75	16.602
1 SLU	3.04	3.18	0.14	ø6/ 8 2 br.	7.07	0.20	432.81	2.50	7185.75	7873.13	7185.75	16.602

Travata n. 19173

Nodi: 1963 -6454 -6455 -6456 -6457 -6458 -6459 -6460 1964

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-77.29	-1506.47	19.492
1.50	1	SLU	5	0.00	3.08	3.08	3.08	3.08	151.63	1506.47	9.935
3.00	1	SLU	8	37.50	3.08	3.08	3.08	3.08	-119.04	-1506.47	12.655

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-57.72	153.08	-36.17	6.43
0.00	4	SLE Q	1	0.00	3.08	3.08	-51.07	135.44	-32.00	5.68
1.50	2	SLE R	5	0.00	3.08	3.08	112.39	-70.42	298.07	12.51
1.50	4	SLE Q	5	0.00	3.08	3.08	97.03	-60.79	257.33	10.80
3.00	2	SLE R	8	37.50	3.08	3.08	-88.43	234.52	-55.41	9.84
3.00	4	SLE Q	8	37.50	3.08	3.08	-76.86	203.85	-48.16	8.56

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-51.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	135.44	0.04	0.01
4	0.00	3	SLE F	1	19	0.00	-52.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.38	0.04	0.01
7	1.50	4	SLE Q	5	19	0.00	97.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	257.33	0.07	0.01
8	1.50	3	SLE F	5	19	0.00	101.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	269.08	0.08	0.01
11	3.00	4	SLE Q	8	19	37.50	-76.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	203.85	0.06	0.01
12	3.00	3	SLE F	8	19	37.50	-80.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	212.51	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	383.58	2.50	7185.75	7873.13	7185.75	18.733
1 SLU	0.14	2.85	2.71	ø6/ 8 2 br.	7.07	0.20	327.82	2.50	7185.75	7873.13	7185.75	21.920
1 SLU	2.85	3.00	0.14	ø6/ 8 2 br.	7.07	0.20	448.46	2.50	7185.75	7873.13	7185.75	16.023

Travata n. 19174

Nodi: 1981 -6771 -6772 -6773 -6774 -6775 -6776 -6777 -6778 1982

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-119.94	-1506.47	12.560



Relazione di calcolo

1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	101.30	1506.47	14.871
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-108.34	-1506.47	13.905

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_e$ sup	$\sigma_e$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-85.82	227.60	-53.77	9.55
0.00	4	SLE Q	1	0.00	3.08	3.08	-72.53	192.37	-45.45	8.07
1.62	2	SLE R	5	18.06	3.08	3.08	70.83	-44.38	187.85	7.88
1.62	4	SLE Q	5	18.06	3.08	3.08	55.48	-34.76	147.14	6.18
3.25	2	SLE R	9	36.11	3.08	3.08	-75.68	200.70	-47.42	8.42
3.25	4	SLE Q	9	36.11	3.08	3.08	-52.88	140.24	-33.13	5.89

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-72.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	192.37	0.06	0.01
4	0.00	3	SLE F	1	19	0.00	-75.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	201.45	0.06	0.01
7	1.62	4	SLE Q	5	19	18.06	55.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	147.14	0.04	0.01
8	1.62	3	SLE F	5	19	18.06	59.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	157.59	0.05	0.01
11	3.25	4	SLE Q	9	19	36.11	-52.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.24	0.04	0.01
12	3.25	3	SLE F	9	19	36.11	-59.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	156.67	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	585.65	2.50	7185.75	7873.13	7185.75	12.270
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	585.65	2.50	7185.75	7873.13	7185.75	12.270
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	42.45	2.50	7185.75	7873.13	7185.75	>100

Travata n. 19216

Nodi: 1965 -6461 -6462 -6463 -6464 -6465 -6466 -6467 -6468 1966

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	36.31	1506.47	41.486
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	153.23	1506.47	9.831
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	33.16	1506.47	45.434

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_e$ sup	$\sigma_e$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	26.81	-16.80	71.10	2.98
0.00	4	SLE Q	1	0.00	3.08	3.08	22.61	-14.17	59.97	2.52
1.44	2	SLE R	5	0.00	3.08	3.08	111.61	-69.93	296.00	12.42
1.44	4	SLE Q	5	0.00	3.08	3.08	90.48	-56.69	239.96	10.07
3.25	2	SLE R	9	36.11	3.08	3.08	24.43	-15.31	64.80	2.72
3.25	4	SLE Q	9	36.11	3.08	3.08	20.93	-13.11	55.50	2.33

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	22.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.97	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	23.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	63.12	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	90.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	239.96	0.07	0.01
8	1.44	3	SLE F	5	19	0.00	96.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	255.68	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	20.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.50	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	21.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	58.10	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	190.18	2.50	7185.75	7873.13	7185.75	37.784
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	74.45	2.50	7185.75	7873.13	7185.75	96.513
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	195.09	2.50	7185.75	7873.13	7185.75	36.832

Travata n. 19217



Relazione di calcolo

Nodi: 1983 -6779 -6780 -6781 -6782 -6783 -6784 -6785 -6786 1984

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-76.61	-1506.47	19.664
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	122.73	1506.47	12.274
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	-114.16	-1506.47	13.197

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_{\epsilon}$ sup <daN/cmq>	$\sigma_{\epsilon}$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	-52.14		138.28	-32.67	5.80
0.004	SLE Q	1	0.00	3.08	3.08	-33.67		89.29	-21.09	3.75
1.442	SLE R	5	0.00	3.08	3.08	86.80		-54.39	230.21	9.66
1.444	SLE Q	5	0.00	3.08	3.08	68.64		-43.00	182.03	7.64
3.232	SLE R	9	35.89	3.08	3.08	-82.22		218.05	-51.51	9.15
3.234	SLE Q	9	35.89	3.08	3.08	-70.74		187.61	-44.32	7.87

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c</sub> eff <cm>	σ <sub>s</sub> <daN/cm<sup>2</sup>>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-33.67	28.00	134.00	0.50	14.00	93.58	3.08	82.65	89.29	0.03	0.00
4	0.003	SLE	F	1	19	0.00	-38.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	102.49	0.03	0.00
7	1.444	SLE	Q	5	19	0.00	68.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	182.03	0.05	0.01
8	1.443	SLE	F	5	19	0.00	73.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	194.68	0.06	0.01
11	3.234	SLE	Q	9	19	35.89	-70.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	187.61	0.05	0.01
12	3.233	SLE	F	9	19	35.89	-73.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	195.36	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cm>/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	217.95	2.50	7185.75	7873.13	7185.75	32.969
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	471.07	2.50	7185.75	7873.13	7185.75	15.254
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	471.07	2.50	7185.75	7873.13	7185.75	15.254

Travata n. 19259

Nodi: 1967 -6469 -6470 -6471 -6472 -6473 -6474 -6475 -6476 1968

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	33.24	1506.47	45.327
1.621	SLU	5	18.06	3.08	3.08	3.08	3.08	3.08	154.97	1506.47	9.721
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	37.21	1506.47	40.480

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_{\epsilon}$ sup	$\sigma_{\epsilon}$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	24.48		-15.34	64.91	2.72
0.004	SLE Q	1	0.00	3.08	3.08	20.87		-13.08	55.35	2.32
1.622	SLE R	5	18.06	3.08	3.08	112.84		-70.70	299.26	12.56
1.624	SLE Q	5	18.06	3.08	3.08	91.41		-57.28	242.44	10.18
3.252	SLE R	9	36.11	3.08	3.08	27.46		-17.20	72.82	3.06
3.254	SLE Q	9	36.11	3.08	3.08	23.21		-14.54	61.55	2.58

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c</sub> off <cm>	σ <sub>s</sub> <daN/cm<sup>2</sup>>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	20.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.35	0.02	0.00
4	0.003	SLE	F	1	19	0.00	21.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	58.03	0.02	0.00
7	1.624	SLE	Q	5	19	18.06	91.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	242.44	0.07	0.01
8	1.623	SLE	F	5	19	18.06	97.43	28.00	134.00	0.50	14.00	93.58	3.08	82.65	258.39	0.08	0.01
11	3.254	SLE	Q	9	19	36.11	23.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.55	0.02	0.00
12	3.253	SLE	F	9	19	36.11	24.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	64.75	0.02	0.00



Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	192.34	2.50	7185.75	7873.13	7185.75	37.360
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	74.82	2.50	7185.75	7873.13	7185.75	96.044
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	195.46	2.50	7185.75	7873.13	7185.75	36.764

Travata n. 19302

Nodi: 1969 -6477 -6478 -6479 -6480 -6481 -6482 -6483 1970

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-71.78	-1506.47	20.988
1.451	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	140.37	1506.47	10.732
2.901	SLU	8	36.25	3.08	3.08	3.08	3.08	3.08	-120.34	-1506.47	12.518

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	3.08	-53.35	141.48	-33.42	5.94
0.004	SLE Q	1	0.00	3.08	3.08	3.08	-47.21	125.20	-29.58	5.25
1.452	SLE R	5	0.00	3.08	3.08	3.08	104.33	-65.37	276.71	11.61
1.454	SLE Q	5	0.00	3.08	3.08	3.08	90.44	-56.67	239.85	10.07
2.902	SLE R	8	36.25	3.08	3.08	3.08	-89.44	237.21	-56.04	9.96
2.904	SLE Q	8	36.25	3.08	3.08	3.08	-77.61	205.83	-48.63	8.64

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.004	SLE Q	1	19	0.00	-47.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	125.20	0.04	0.01
4	0.003	SLE F	1	19	0.00	-48.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	129.71	0.04	0.01
7	1.454	SLE Q	5	19	0.00	90.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	239.85	0.07	0.01
8	1.453	SLE F	5	19	0.00	94.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	250.54	0.07	0.01
11	2.904	SLE Q	8	19	36.25	-77.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	205.83	0.06	0.01
12	2.903	SLE F	8	19	36.25	-80.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	214.69	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	369.80	2.50	7185.75	7873.13	7185.75	19.432
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	333.34	2.50	7185.75	7873.13	7185.75	21.557
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	453.98	2.50	7185.75	7873.13	7185.75	15.828

Travata n. 19345

Nodi: 1971 -6484 -6485 -6486 -6487 -6488 -6489 -6490 -6491 1972

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	44.47	1506.47	33.876
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	178.28	1506.47	8.450
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	37.59	1506.47	40.076

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	3.08	32.64	-20.45	86.56	3.63
0.004	SLE Q	1	0.00	3.08	3.08	3.08	27.30	-17.10	72.39	3.04
1.442	SLE R	5	0.00	3.08	3.08	3.08	129.00	-80.83	342.12	14.36
1.444	SLE Q	5	0.00	3.08	3.08	3.08	103.89	-65.09	275.53	11.56
3.232	SLE R	9	35.89	3.08	3.08	3.08	27.37	-17.15	72.59	3.05
3.234	SLE Q	9	35.89	3.08	3.08	3.08	23.04	-14.44	61.12	2.57



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	27.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	72.39	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	28.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	76.36	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	103.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	275.53	0.08	0.01
8	1.44	3	SLE F	5	19	0.00	110.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	293.89	0.09	0.01
11	3.23	4	SLE Q	9	19	35.89	23.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.12	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	24.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	64.22	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	190.98	2.50	7185.75	7873.13	7185.75	37.626
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	80.21	2.50	7185.75	7873.13	7185.75	89.590
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	200.85	2.50	7185.75	7873.13	7185.75	35.777

Travate n. 3020 5020 7020 9020 11020 13020 15020 17020 19020

3020 (a) Nodi: 307 325 341  
5020 (b) Nodi: 507 525 541  
7020 (c) Nodi: 707 725 741  
9020 (d) Nodi: 907 925 941  
11020 (e) Nodi: 1107 1125 1141  
13020 (f) Nodi: 1307 1325 1341  
15020 (g) Nodi: 1507 1525 1541  
17020 (h) Nodi: 1707 1725 1741  
19020 (i) Nodi: 1907 1925 1941

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
31R	50.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	In	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfE P S <cmq>	AfE P I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.35	1	SLU	i	1	35.00	8.04	8.04	8.04	8.04	-2236.66	-5327.58	2.382
0.50	1	SLU	i	1	50.00	8.04	8.04	8.04	8.04	-2236.66	-5327.58	2.382
4.27	1	SLU	i	1	426.73	8.04	8.04	8.04	8.04	888.79	5327.58	5.994
4.87	1	SLU	i	1	487.00	8.04	8.04	8.04	8.04	864.56	5327.58	6.162
5.55	1	SLU	i	2	0.00	8.04	8.04	8.04	8.04	-2333.38	-5327.58	2.283
9.77	1	SLU	i	2	421.75	8.04	8.04	8.04	8.04	968.42	5327.58	5.501
10.22	1	SLU	i	2	467.00	8.04	8.04	8.04	8.04	938.76	5327.58	5.675
10.37	1	SLU	a	2	482.00	8.04	8.04	8.04	8.04	-620.82	-5327.58	8.581

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
0.35	2	SLE R	i	1	35.00	8.04	8.04	-1695.93	1179.67	-302.38	40.50
0.35	4	SLE Q	i	1	35.00	8.04	8.04	-1473.71	1025.10	-262.76	35.19
0.50	2	SLE R	i	1	50.00	8.04	8.04	-1695.93	1179.67	-302.38	40.50
0.50	4	SLE Q	i	1	50.00	8.04	8.04	-1473.71	1025.10	-262.76	35.19
4.27	2	SLE R	i	1	426.73	8.04	8.04	676.04	-120.53	470.24	16.14
4.27	4	SLE Q	i	1	426.73	8.04	8.04	546.70	-97.47	380.28	13.06
4.87	2	SLE R	i	1	487.00	8.04	8.04	654.11	-116.62	454.99	15.62
4.87	4	SLE Q	i	1	487.00	8.04	8.04	474.53	-84.61	330.08	11.33
5.55	2	SLE R	i	2	0.00	8.04	8.04	-1751.35	1218.22	-312.26	41.82
5.55	4	SLE Q	i	2	0.00	8.04	8.04	-1641.21	1141.61	-292.62	39.19
9.77	2	SLE R	i	2	421.75	8.04	8.04	718.82	-128.16	500.00	17.17
9.77	4	SLE Q	i	2	421.75	8.04	8.04	649.59	-115.82	451.85	15.51
10.22	2	SLE R	i	2	467.00	8.04	8.04	687.60	-122.60	478.28	16.42
10.22	4	SLE Q	i	2	467.00	8.04	8.04	596.76	-106.40	415.10	14.25
10.37	2	SLE R	a	2	482.00	8.04	8.04	-473.04	329.04	-84.34	11.30
10.37	4	SLE Q	a	2	482.00	8.04	8.04	-465.16	323.56	-82.94	11.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	In	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
27	0.35	4	SLE Q	i	1	31	35.00	-1473.71	27.00	144.00	0.50	16.00	110.47	8.04	283.86	1025.10	0.36	0.07
36	0.35	3	SLE F	i	1	31	35.00	-1537.37	27.00	144.00	0.50	16.00	110.47	8.04	283.86	1069.38	0.32	0.06
63	0.50	4	SLE Q	i	1	31	50.00	-1473.71	27.00	144.00	0.50	16.00	110.47	8.04	283.86	1025.10	0.36	0.07
72	0.50	3	SLE F	i	1	31	50.00	-1537.37	27.00	144.00	0.50	16.00	110.47	8.04	283.86	1069.38	0.32	0.06
117	4.27	4	SLE Q	i	1	31	426.73	546.70	27.00	144.00	0.50	16.00	110.47	8.04	283.86	380.28	0.11	0.02
132	4.27	3	SLE F	i	1	31	426.73	581.11	27.00	144.00	0.50	16.00	110.47	8.04	283.86	404.21	0.12	0.02
161	4.87	4	SLE Q	i	1	31	487.00	474.53	27.00	144.00	0.50	16.00	110.47	8.04	283.86	330.08	0.10	0.02



Relazione di calcolo

171	4.87	3	SLE F	i	1	31	487.00	526.01	27.00	144.00	0.50	16.00	110.47	8.04	283.86	365.89	0.11	0.02
198	5.55	4	SLE Q	i	2	31	0.00	-1641.21	27.00	144.00	0.50	16.00	110.47	8.04	283.86	1141.61	0.42	0.08
207	5.55	3	SLE F	i	2	31	0.00	-1673.07	27.00	144.00	0.50	16.00	110.47	8.04	283.86	1163.77	0.36	0.07
240	9.77	4	SLE Q	i	2	31	421.75	649.59	27.00	144.00	0.50	16.00	110.47	8.04	283.86	451.85	0.13	0.02
251	9.77	3	SLE F	i	2	31	421.75	669.62	27.00	144.00	0.50	16.00	110.47	8.04	283.86	465.78	0.14	0.03
287	10.22	4	SLE Q	i	2	31	467.00	596.76	27.00	144.00	0.50	16.00	110.47	8.04	283.86	415.10	0.12	0.02
299	10.22	3	SLE F	i	2	31	467.00	623.04	27.00	144.00	0.50	16.00	110.47	8.04	283.86	433.38	0.13	0.02
312	10.37	4	SLE Q	a	2	31	482.00	-465.16	27.00	144.00	0.50	16.00	110.47	8.04	283.86	323.56	0.09	0.02
318	10.37	3	SLE F	a	2	31	482.00	-467.33	27.00	144.00	0.50	16.00	110.47	8.04	283.86	325.07	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	In	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.50	0.72	0.22	i	ø6/20 2 br.	2.83	0.50	1482.60	2.50	4063.67	15359.50	4063.67	2.741
1 SLU	0.72	4.65	3.93	i	ø6/20 2 br.	2.83	0.50	1396.73	2.50	4063.67	15359.50	4063.67	2.909
1 SLU	4.65	4.87	0.22	a	ø6/20 2 br.	2.83	0.50	854.46	2.50	4063.67	15359.50	4063.67	4.756
1 SLU	5.55	5.77	0.22	i	ø6/20 2 br.	2.83	0.50	1583.53	2.50	4063.67	15359.50	4063.67	2.566
1 SLU	5.77	10.00	4.23	i	ø6/20 2 br.	2.83	0.50	1497.66	2.50	4063.67	15359.50	4063.67	2.713
1 SLU	10.00	10.22	0.22	a	ø6/20 2 br.	2.83	0.50	835.27	2.50	4063.67	15359.50	4063.67	4.865

Travata n. 3021

Nodi: 361 -394 -462 -540 -665 308

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	1	SLU	5	0.00	3.08	3.08	3.08	3.08	-688.89	-1506.47	2.187

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	1	SLE R	5	0.00	3.08	3.08	-509.54	1351.37	-319.26	56.72
1.904	1	SLE Q	5	0.00	3.08	3.08	-427.39	1133.50	-267.79	47.58

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	1.904	1	SLE Q	5	19	0.00	-427.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1133.50	0.37	0.06
4	1.903	1	SLE F	5	19	0.00	-450.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1195.74	0.35	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	156.71	2.50	7185.75	7873.13	7185.75	45.855
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	173.67	2.50	7185.75	7873.13	7185.75	41.376

Travata n. 3022

Nodi: 362 -441 -528 377 309

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	1	SLU	4	70.00	3.08	3.08	3.08	3.08	-580.91	-1506.47	2.593

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	1	SLE R	4	70.00	3.08	3.08	-426.84	1132.05	-267.45	47.52
1.904	1	SLE Q	4	70.00	3.08	3.08	-359.63	953.80	-225.34	40.03

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
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Relazione di calcolo

3	1.904	SLE Q	4	19	70.00	-359.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	953.80	0.28	0.04
4	1.903	SLE F	4	19	70.00	-378.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1004.73	0.29	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	546.55	2.50	7185.75	7873.13	7185.75	13.148
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	563.51	2.50	7185.75	7873.13	7185.75	12.752

Travata n. 3023

Nodi: 363 -442 -529 378 -737 310

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	5	35.06	6.03	4.02	6.03	4.02	4.02	-8369.07	-9551.64	1.141

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	SLE R	5	35.06	6.03	4.02	-6183.89	2420.22	-673.13	61.66	
1.904	SLE Q	5	35.06	6.03	4.02	-5626.80	2202.19	-612.49	56.11	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE	Q	5	30	35.06	-5626.80	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2202.19	0.91	0.19
4	1.903	SLE	F	5	30	35.06	-5785.97	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2264.48	0.86	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4090.97	2.50	10241.80	20904.00	10241.80	2.503
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5249.58	2.50	10241.80	20904.00	10241.80	1.951

Travata n. 3024

Nodi: 389 -934 399 344

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
4.671	SLU	3	317.00	3.08	3.08	3.08	3.08	3.08	-430.24	-2142.71	4.980
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-430.24	-2142.71	4.980

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
4.672	SLE R	3	317.00	3.08	3.08	-308.41	561.81	-150.67	19.82	
4.674	SLE Q	3	317.00	3.08	3.08	-249.24	454.02	-121.76	16.02	
4.822	SLE R	3	332.00	3.08	3.08	-308.41	561.81	-150.67	19.82	
4.824	SLE Q	3	332.00	3.08	3.08	-249.24	454.02	-121.76	16.02	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c</sub> <sup>eff</sup> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	4.674	SLE	Q	3	18	317.00	-249.24	28.00	114.00	0.50	14.00	102.12	3.08	101.43	454.02	0.13	0.02
4	4.673	SLE	F	3	18	317.00	-266.12	28.00	114.00	0.50	14.00	102.12	3.08	101.43	484.76	0.14	0.02
7	4.824	SLE	Q	3	18	332.00	-249.24	28.00	114.00	0.50	14.00	102.12	3.08	101.43	454.02	0.13	0.02
8	4.823	SLE	F	3	18	332.00	-266.12	28.00	114.00	0.50	14.00	102.12	3.08	101.43	484.76	0.14	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
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Relazione di calcolo

	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2310.13	2.50	7619.38	26714.30	7619.38	3.298
1 SLU	1.50	4.46	2.96	ø6/16 2 br.	3.53	0.18	422.34	2.50	5079.58	10017.90	5079.58	12.027
1 SLU	4.46	4.67	0.20	ø6/16 2 br.	3.53	0.18	451.12	2.50	5079.58	10017.90	5079.58	11.260

Travata n. 3027

Nodi: 392 -938 400 345

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
4.67	1	SLU	3	317.00	3.08	3.08	3.08	3.08	-270.08	-2142.71	7.934
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-270.08	-2142.71	7.934

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
4.67	2	SLE R	3	317.00	3.08	3.08	-193.88	353.18	-94.71	12.46
4.67	4	SLE Q	3	317.00	3.08	3.08	-153.69	279.96	-75.08	9.88
4.82	2	SLE R	3	332.00	3.08	3.08	-193.88	353.18	-94.71	12.46
4.82	4	SLE Q	3	332.00	3.08	3.08	-153.69	279.96	-75.08	9.88

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	4.67	4	SLE Q	3	18	317.00	-153.69	28.00	114.00	0.50	14.00	102.12	3.08	101.43	279.96	0.08	0.01
4	4.67	3	SLE F	3	18	317.00	-165.17	28.00	114.00	0.50	14.00	102.12	3.08	101.43	300.88	0.09	0.02
7	4.82	4	SLE Q	3	18	332.00	-153.69	28.00	114.00	0.50	14.00	102.12	3.08	101.43	279.96	0.08	0.01
8	4.82	3	SLE F	3	18	332.00	-165.17	28.00	114.00	0.50	14.00	102.12	3.08	101.43	300.88	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	1318.58	2.50	7619.38	26714.30	7619.38	5.778
1 SLU	1.50	4.46	2.96	ø6/16 2 br.	3.53	0.18	307.61	2.50	5079.58	10017.90	5079.58	16.513
1 SLU	4.46	4.67	0.20	ø6/16 2 br.	3.53	0.18	336.39	2.50	5079.58	10017.90	5079.58	15.100

Travata n. 3028

Nodi: 364 -443 -530 379 -738 311

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.09	6.03	4.02	6.03	4.02	-8268.50	-9551.64	1.155

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.90	2	SLE R	5	35.09	6.03	4.02	-6110.18	2391.37	-665.10	60.93
1.90	4	SLE Q	5	35.09	6.03	4.02	-5563.56	2177.44	-605.60	55.48

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	1.90	4	SLE Q	5	30	35.09	-5563.56	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2177.44	0.90	0.19
4	1.90	3	SLE F	5	30	35.09	-5719.74	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2238.56	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4034.84	2.50	10241.80	20904.00	10241.80	2.538
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5164.82	2.50	10241.80	20904.00	10241.80	1.983



### Travata n. 3029

Nodi: 365 -444 -531 380 312

#### Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

#### Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CCTCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	4	70.00	5.09	4.02	5.09	4.02	-5266.51	-8099.97	1.538

#### Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	$\sigma_f$ sup <daN/cm>	$\sigma_f$ inf <daN/cm>	$\sigma_c$ <daN/cm>
1.902	SLE R	4	70.00	5.09	4.02	-3874.68	1786.42	-435.07		41.06
1.904	SLE Q	4	70.00	5.09	4.02	-3271.70	1508.42	-367.37		34.67

#### Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
3	1.904	SLE Q	4	30	70.00	-3271.70	27.67	116.50	0.50	14.73	131.29	5.09	262.50		1508.42	0.55	0.12
4	1.903	SLE F	4	30	70.00	-3443.98	27.67	116.50	0.50	14.73	131.29	5.09	262.50		1587.85	0.49	0.11

#### Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cm>	bw <cm>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.05	1.05	ø6/ 8 2 br.	7.07	0.20	611.62	2.50	7185.75	7873.13	7185.75	11.749
1 SLU	1.05	1.20	0.14	ø6/ 8 2 br.	7.07	0.20	628.58	2.50	7185.75	7873.13	7185.75	11.432
1 SLU	1.20	1.90	0.70	ø6/14 2 br.	4.04	0.30	5474.28	2.50	13168.00	20904.00	13168.00	2.405

### Travate n. 3030 5030 7030 9030 11030 13030 15030 17030 19030

3030 (a) Nodi: 366 -389 -472 -553 -686 313 329 347  
 5030 (b) Nodi: 566 -1176 -1247 -1336 -1448 513 529 547  
 7030 (c) Nodi: 766 -1935 -2012 -2101 -2211 713 729 747  
 9030 (d) Nodi: 966 -2684 -2777 -2866 -2990 913 929 947  
 11030 (e) Nodi: 1166 -3474 -3541 -3626 -3735 1113 1129 1147  
 13030 (f) Nodi: 1366 -4218 -4307 -4396 -4511 1313 1329 1347  
 15030 (g) Nodi: 1566 -5000 -5072 -5161 -5269 1513 1529 1547  
 17030 (h) Nodi: 1766 -5758 -5838 -5927 -6036 1713 1729 1747  
 19030 (i) Nodi: 1966 -6531 -6602 -6685 -6807 1913 1929 1947

#### Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
31R	50.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

#### Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CCTCC	InEl	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU i	5	38.00	10.30	2.26	10.30	2.26	-985.18	-4253.29	4.317
2.251	SLU i	6	35.00	10.30	8.04	10.30	8.04	-3901.45	-6707.30	1.719
2.401	SLU i	6	50.00	10.30	8.04	10.30	8.04	-3901.45	-6707.30	1.719
6.771	SLU i	6	487.00	8.04	8.04	8.04	8.04	1963.45	5327.58	2.713
7.451	SLU i	7	0.00	8.04	8.04	8.04	8.04	-2946.46	-5327.58	1.808
11.971	SLU i	7	451.88	8.04	8.04	8.04	8.04	1469.44	5327.58	3.626
12.121	SLU i	7	467.00	8.04	8.04	8.04	8.04	1469.44	5327.58	3.626
12.271	SLU a	7	482.00	8.04	8.04	8.04	8.04	-575.60	-5327.58	9.256

#### Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	InEl	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	$\sigma_f$ sup <daN/cm>	$\sigma_f$ inf <daN/cm>	$\sigma_c$ <daN/cm>
1.902	SLE R i	5	38.00	10.30	2.26	-728.55	614.08	-530.43		59.64
1.904	SLE Q i	5	38.00	10.30	2.26	-611.56	515.46	-445.25		50.06
2.252	SLE R i	6	35.00	10.30	8.04	-2934.58	1609.02	-525.31		64.32
2.254	SLE Q i	6	35.00	10.30	8.04	-2510.07	1376.26	-449.32		55.01
2.402	SLE R i	6	50.00	10.30	8.04	-2934.58	1609.02	-525.31		64.32
2.404	SLE Q i	6	50.00	10.30	8.04	-2510.07	1376.26	-449.32		55.01
6.772	SLE R i	6	487.00	8.04	8.04	1472.00	-262.45	1023.91		35.15
6.774	SLE Q i	6	487.00	8.04	8.04	1128.29	-201.17	784.83		26.94



Relazione di calcolo

7.45	2	SLE R	i	7	0.00	8.04	8.04	-2208.62	1536.29	-393.79	52.74
7.45	4	SLE Q	i	7	0.00	8.04	8.04	-2046.70	1423.66	-364.92	48.88
11.97	2	SLE R	i	7	451.88	8.04	8.04	1077.28	-192.07	749.35	25.73
11.97	4	SLE Q	i	7	451.88	8.04	8.04	934.94	-166.70	650.33	22.33
12.12	2	SLE R	i	7	467.00	8.04	8.04	1077.28	-192.07	749.35	25.73
12.12	4	SLE Q	i	7	467.00	8.04	8.04	936.54	-166.98	651.45	22.37
12.27	2	SLE R	a	7	482.00	8.04	8.04	-443.14	308.25	-79.01	10.58
12.27	4	SLE Q	a	7	482.00	8.04	8.04	-437.85	304.56	-78.07	10.46

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	In	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
63	2.25	4	SLE Q	i	6	31	35.00	-2510.07	27.67	86.40	0.50	14.91	94.68	10.30	271.93	1376.26	0.56	0.09
72	2.25	3	SLE F	i	6	31	35.00	-2631.26	27.67	86.40	0.50	14.91	94.68	10.30	271.93	1442.71	0.54	0.09
99	2.40	4	SLE Q	i	6	31	50.00	-2510.07	27.67	86.40	0.50	14.91	94.68	10.30	271.93	1376.26	0.56	0.09
108	2.40	3	SLE F	i	6	31	50.00	-2631.26	27.67	86.40	0.50	14.91	94.68	10.30	271.93	1442.71	0.54	0.09
135	6.77	4	SLE Q	i	6	31	487.00	1128.29	27.00	144.00	0.50	16.00	110.47	8.04	283.86	784.83	0.25	0.05
144	6.77	3	SLE F	i	6	31	487.00	1226.35	27.00	144.00	0.50	16.00	110.47	8.04	283.86	853.03	0.25	0.05
171	7.45	4	SLE Q	i	7	31	0.00	-2046.70	27.00	144.00	0.50	16.00	110.47	8.04	283.86	1423.66	0.56	0.10
180	7.45	3	SLE F	i	7	31	0.00	-2093.72	27.00	144.00	0.50	16.00	110.47	8.04	283.86	1456.37	0.51	0.10
218	11.97	4	SLE Q	i	7	31	451.88	934.94	27.00	144.00	0.50	16.00	110.47	8.04	283.86	650.33	0.19	0.04
230	11.97	3	SLE F	i	7	31	451.88	975.60	27.00	144.00	0.50	16.00	110.47	8.04	283.86	678.62	0.20	0.04
264	12.12	4	SLE Q	i	7	31	467.00	936.54	27.00	144.00	0.50	16.00	110.47	8.04	283.86	651.45	0.19	0.04
276	12.12	3	SLE F	i	7	31	467.00	976.15	27.00	144.00	0.50	16.00	110.47	8.04	283.86	679.00	0.20	0.04
289	12.27	4	SLE Q	a	7	31	482.00	-437.85	27.00	144.00	0.50	16.00	110.47	8.04	283.86	304.56	0.09	0.02
295	12.27	3	SLE F	a	7	31	482.00	-439.29	27.00	144.00	0.50	16.00	110.47	8.04	283.86	305.56	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	In	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	i	ø6/ 8 2 br.	7.07	0.20	573.96	2.50	7185.75	7873.13	7185.75	12.520
1 SLU	1.75	1.90	0.14	i	ø6/ 8 2 br.	7.07	0.20	590.92	2.50	7185.75	7873.13	7185.75	12.160
1 SLU	2.40	2.62	0.22	i	ø6/20 2 br.	2.83	0.50	2080.95	2.50	4063.67	15359.50	4063.67	1.953
1 SLU	2.62	6.55	3.93	i	ø6/20 2 br.	2.83	0.50	1994.30	2.50	4063.67	15359.50	4063.67	2.038
1 SLU	6.55	6.77	0.22	a	ø6/20 2 br.	2.83	0.50	791.92	2.50	4063.67	15359.50	4063.67	5.131
1 SLU	7.45	7.67	0.22	i	ø6/20 2 br.	2.83	0.50	1827.63	2.50	4063.67	15359.50	4063.67	2.223
1 SLU	7.67	11.90	4.23	i	ø6/20 2 br.	2.83	0.50	1740.98	2.50	4063.67	15359.50	4063.67	2.334
1 SLU	11.90	12.12	0.22	a	ø6/20 2 br.	2.83	0.50	813.68	2.50	4063.67	15359.50	4063.67	4.994

Travata n. 3032

Nodi: 367 -390 -473 -543 -667 315

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	38.00	3.08	3.08	3.08	3.08	-708.25	-1506.47	2.127

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>E</sub> sup <daN/cm>	σ <sub>E</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.90	2	SLE R	5	38.00	3.08	3.08	-523.82	1389.24	-328.21	58.31
1.90	4	SLE Q	5	38.00	3.08	3.08	-440.74	1168.89	-276.15	49.06

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	1.90	4	SLE Q	5	19	38.00	-440.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1168.89	0.38	0.06
4	1.90	3	SLE F	5	19	38.00	-464.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1231.85	0.36	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	171.12	2.50	7185.75	7873.13	7185.75	41.992
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	188.09	2.50	7185.75	7873.13	7185.75	38.204

Travata n. 3033

Nodi: 368 -445 -532 381 -740 316

Caratteristiche delle sezioni e dei materiali utilizzati



Relazione di calcolo

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-605.12	-1506.47	2.490

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_r$ sup <daN/cmq>	$\sigma_r$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
1.90	2	SLE R	5	35.44	3.08	3.08	-445.75	1182.19	-279.29	49.62
1.90	4	SLE Q	5	35.44	3.08	3.08	-378.21	1003.07	-236.97	42.10

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	1.90	4	SLE Q	5	19	35.44	-378.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1003.07	0.30	0.05
4	1.90	3	SLE F	5	19	35.44	-397.51	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1054.25	0.31	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	515.59	2.50	7185.75	7873.13	7185.75	13.937
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	532.56	2.50	7185.75	7873.13	7185.75	13.493

Travata n. 3035

Nodi: 393 -939 401 351

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
4.67	1	SLU	3	317.00	3.08	3.08	3.08	3.08	-414.45	-2142.71	5.170
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-414.45	-2142.71	5.170

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_r$ sup <daN/cmq>	$\sigma_r$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
4.67	2	SLE R	3	317.00	3.08	3.08	-297.15	541.29	-145.16	19.10
4.67	4	SLE Q	3	317.00	3.08	3.08	-240.89	438.80	-117.68	15.48
4.82	2	SLE R	3	332.00	3.08	3.08	-297.15	541.29	-145.16	19.10
4.82	4	SLE Q	3	332.00	3.08	3.08	-240.89	438.80	-117.68	15.48

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	4.67	4	SLE Q	3	18	317.00	-240.89	28.00	114.00	0.50	14.00	102.12	3.08	101.43	438.80	0.13	0.02
	4.67	3	SLE F	3	18	317.00	-256.92	28.00	114.00	0.50	14.00	102.12	3.08	101.43	468.01	0.14	0.02
7	4.82	4	SLE Q	3	18	332.00	-240.89	28.00	114.00	0.50	14.00	102.12	3.08	101.43	438.80	0.13	0.02
8	4.82	3	SLE F	3	18	332.00	-256.92	28.00	114.00	0.50	14.00	102.12	3.08	101.43	468.01	0.14	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2128.83	2.50	7619.38	26714.30	7619.38	3.579
1 SLU	1.50	4.46	2.96	ø6/16 2 br.	3.53	0.18	413.71	2.50	5079.58	10017.90	5079.58	12.278
1 SLU	4.46	4.67	0.20	ø6/16 2 br.	3.53	0.18	442.49	2.50	5079.58	10017.90	5079.58	11.479

Travata n. 3036

Nodi: 369 -446 -533 382 -741 317

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94



Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	35.41	6.03	4.02	6.03	4.02	-8084.10	-9551.64	1.182

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.41	6.03	4.02	-5972.03	2337.30	-650.07	59.55
1.904	SLE Q		5	35.41	6.03	4.02	-5434.71	2127.01	-591.58	54.19

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	30	35.41	-5434.71	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2127.01	0.87	0.18
4	1.903	SLE F		5	30	35.41	-5588.23	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2187.09	0.82	0.17

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4040.91	2.50	10241.80	20904.00	10241.80	2.535
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5057.91	2.50	10241.80	20904.00	10241.80	2.025

Travata n. 3040

Nodi: 370 -447 -534 383 -742 318

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30R		30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	35.38	6.03	4.02	6.03	4.02	-8284.80	-9551.64	1.153

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.38	6.03	4.02	-6119.00	2394.82	-666.07	61.01
1.904	SLE Q		5	35.38	6.03	4.02	-5563.73	2177.50	-605.62	55.48

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	30	35.38	-5563.73	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2177.50	0.90	0.19
4	1.903	SLE F		5	30	35.38	-5722.37	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2239.59	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4043.59	2.50	10241.80	20904.00	10241.80	2.533
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5126.98	2.50	10241.80	20904.00	10241.80	1.998

Travata n. 3041

Nodi: 396 -943 402 352

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R		18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.671	SLU		3	317.00	3.08	3.08	3.08	3.08	-274.50	-2142.71	7.806
4.821	SLU		3	332.00	3.08	3.08	3.08	3.08	-274.50	-2142.71	7.806

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.672	SLE R		3	317.00	3.08	3.08	-197.28	359.37	-96.38	12.68



Relazione di calcolo

4.67	4	SLE Q	3	317.00	3.08	3.08	-156.66	285.37	-76.53	10.07
4.82	2	SLE R	3	332.00	3.08	3.08	-197.28	359.37	-96.38	12.68
4.82	4	SLE Q	3	332.00	3.08	3.08	-156.66	285.37	-76.53	10.07

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.67	4	SLE Q	3	18	317.00	-156.66	28.00	114.00	0.50	14.00	102.12	3.08	101.43	285.37	0.08	0.01
4	4.67	3	SLE F	3	18	317.00	-168.26	28.00	114.00	0.50	14.00	102.12	3.08	101.43	306.50	0.09	0.02
7	4.82	4	SLE Q	3	18	332.00	-156.66	28.00	114.00	0.50	14.00	102.12	3.08	101.43	285.37	0.08	0.01
8	4.82	3	SLE F	3	18	332.00	-168.26	28.00	114.00	0.50	14.00	102.12	3.08	101.43	306.50	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	1525.08	2.50	7619.38	26714.30	7619.38	4.996
1 SLU	1.50	4.46	2.96	ø6/16 2 br.	3.53	0.18	311.21	2.50	5079.58	10017.90	5079.58	16.322
1 SLU	4.46	4.67	0.20	ø6/16 2 br.	3.53	0.18	339.99	2.50	5079.58	10017.90	5079.58	14.940

Travata n. 3042

Nodi: 371 -448 -535 384 -743 319

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.43	3.08	3.08	3.08	3.08	3.08	-418.24	-1506.47	3.602

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.43	3.08	3.08	3.08	-302.95	803.47	-189.82	33.72
1.904	SLE Q	5	35.43	3.08	3.08	3.08	-234.57	622.12	-146.97	26.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.43	-234.57	28.00	134.00	0.50	14.00	93.58	3.08	82.65	622.12	0.18	0.03
4	1.90	3	SLE F	5	19	35.43	-254.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	673.93	0.20	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	385.66	2.50	7185.75	7873.13	7185.75	18.632
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	402.63	2.50	7185.75	7873.13	7185.75	17.847

Travate n. 3043 5043 7043 9043 11043 13043 15043 17043 19043

3043 (a) Nodi: 372 -412 -487 -573 -689 320 334 354  
5043 (b) Nodi: 572 -1186 -1259 -1346 -1440 520 534 554  
7043 (c) Nodi: 772 -1951 -2023 -2112 -2199 720 734 754  
9043 (d) Nodi: 972 -2716 -2789 -2875 -2974 920 934 954  
11043 (e) Nodi: 1172 -3481 -3553 -3642 -3753 1120 1134 1154  
13043 (f) Nodi: 1372 -4246 -4319 -4405 -4505 1320 1334 1354  
15043 (g) Nodi: 1572 -5011 -5084 -5170 -5276 1520 1534 1554  
17043 (h) Nodi: 1772 -5777 -5849 -5938 -6042 1720 1734 1754  
19043 (i) Nodi: 1972 -6542 -6613 -6696 -6793 1920 1934 1954

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
26R		30.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CT	TCC	In	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>					<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	1	SLU	i	5	38.00	8.29	2.26	8.29	2.26	-1089.29	-3548.34	3.257
2.251	1	SLU	h	6	35.00	8.29	6.03	8.29	6.03	-4338.51	-5303.47	1.222
2.401	1	SLU	h	6	50.00	8.29	6.03	8.29	6.03	-4338.51	-5303.47	1.222
6.771	1	SLU	a	6	487.00	6.03	6.03	6.03	6.03	-2450.10	-3933.07	1.605



Relazione di calcolo

7.27	1	SLU	h	7	535.00	6.03	6.03	6.03	6.03	-5544.09	-3933.07	0.709
7.45	1	SLU	h	7	517.00	6.03	6.03	6.03	6.03	-5544.09	-3933.07	0.709
10.08	1	SLU	h	7	253.75	6.03	6.03	6.03	6.03	1935.93	3933.07	2.032
12.12	1	SLU	a	7	50.00	6.03	6.03	6.03	6.03	-2713.32	-3933.07	1.450
12.27	1	SLU	a	7	35.00	6.03	6.03	6.03	6.03	-2713.32	-3933.07	1.450

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
1.90	2	SLE R	i	5	38.00	8.29	2.26	-802.15	829.51	-585.18	69.02
1.90	4	SLE Q	i	5	38.00	8.29	2.26	-669.84	692.68	-488.65	57.64
2.25	2	SLE R	h	6	35.00	8.29	6.03	-3071.49	2117.22	-859.28	98.14
2.25	4	SLE Q	h	6	35.00	8.29	6.03	-2889.57	1991.82	-808.38	92.33
2.40	2	SLE R	h	6	50.00	8.29	6.03	-3071.49	2117.22	-859.28	98.14
2.40	4	SLE Q	h	6	50.00	8.29	6.03	-2889.57	1991.82	-808.38	92.33
6.77	2	SLE R	a	6	487.00	6.03	6.03	-1668.54	1561.38	-469.06	59.14
6.77	4	SLE Q	a	6	487.00	6.03	6.03	-1681.17	1573.19	-472.61	59.59
7.27	2	SLE R	h	7	535.00	6.03	6.03	-3877.46	3628.42	-1090.04	137.43
7.27	4	SLE Q	h	7	535.00	6.03	6.03	-3741.79	3501.47	-1051.90	132.62
7.45	2	SLE R	h	7	517.00	6.03	6.03	-3877.46	3628.42	-1090.04	137.43
7.45	4	SLE Q	h	7	517.00	6.03	6.03	-3741.79	3501.47	-1051.90	132.62
10.08	2	SLE R	h	7	253.75	6.03	6.03	1336.16	-375.62	1250.34	47.36
10.08	4	SLE Q	h	7	253.75	6.03	6.03	1313.29	-369.19	1228.94	46.55
12.12	2	SLE R	a	7	50.00	6.03	6.03	-1846.86	1728.24	-519.19	65.46
12.12	4	SLE Q	a	7	50.00	6.03	6.03	-1851.81	1732.87	-520.58	65.64
12.27	2	SLE R	a	7	35.00	6.03	6.03	-1846.86	1728.24	-519.19	65.46
12.27	4	SLE Q	a	7	35.00	6.03	6.03	-1851.81	1732.87	-520.58	65.64

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	In	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
62	2.25	4	SLE Q	h	6	26	35.00	-2889.57	27.80	58.00	0.50	14.67	83.17	8.29	155.92	1991.82	0.88	0.13
71	2.25	3	SLE F	h	6	26	35.00	-2941.42	27.80	58.00	0.50	14.67	83.17	8.29	155.92	2027.56	0.86	0.12
98	2.40	4	SLE Q	h	6	26	50.00	-2889.57	27.80	58.00	0.50	14.67	83.17	8.29	155.92	1991.82	0.88	0.13
107	2.40	3	SLE F	h	6	26	50.00	-2941.42	27.80	58.00	0.50	14.67	83.17	8.29	155.92	2027.56	0.86	0.12
127	6.77	4	SLE Q	a	6	26	487.00	-1681.17	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1573.19	0.65	0.11
136	6.77	3	SLE F	a	6	26	487.00	-1677.58	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1569.83	0.60	0.10
170	7.27	4	SLE Q	h	7	26	535.00	-3741.79	27.00	116.00	0.50	16.00	97.96	6.03	165.73	3501.47	1.59	0.26
179	7.27	3	SLE F	h	7	26	535.00	-3781.02	27.00	116.00	0.50	16.00	97.96	6.03	165.73	3538.17	1.55	0.26
206	7.45	4	SLE Q	h	7	26	517.00	-3741.79	27.00	116.00	0.50	16.00	97.96	6.03	165.73	3501.47	1.59	0.26
215	7.45	3	SLE F	h	7	26	517.00	-3781.02	27.00	116.00	0.50	16.00	97.96	6.03	165.73	3538.17	1.55	0.26
242	10.08	4	SLE Q	h	7	26	253.75	1313.29	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1228.94	0.49	0.08
251	10.08	3	SLE F	h	7	26	253.75	1319.90	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1235.12	0.44	0.07
271	12.12	4	SLE Q	a	7	26	50.00	-1851.81	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1732.87	0.73	0.12
280	12.12	3	SLE F	a	7	26	50.00	-1850.39	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1731.54	0.68	0.11
305	12.27	4	SLE Q	a	7	26	35.00	-1851.81	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1732.87	0.73	0.12
313	12.27	3	SLE F	a	7	26	35.00	-1850.39	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1731.54	0.68	0.11

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	In	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	i	ø6/ 8 2 br.	7.07	0.20	763.35	2.50	7185.75	7873.13	7185.75	9.413
1 SLU	1.75	1.90	0.14	i	ø6/ 8 2 br.	7.07	0.20	780.32	2.50	7185.75	7873.13	7185.75	9.209
1 SLU	2.40	2.62	0.22	h	ø6/20 2 br.	2.83	0.30	4111.63	2.50	4063.67	9215.72	4063.67	0.988
1 SLU	2.62	6.55	3.93	h	ø6/20 2 br.	2.83	0.30	3759.67	2.50	4063.67	9215.72	4063.67	1.081
1 SLU	6.55	6.77	0.22	a	ø6/20 2 br.	2.83	0.30	3529.86	2.50	4063.67	9215.72	4063.67	1.151
1 SLU	7.45	7.67	0.22	h	ø6/20 2 br.	2.83	0.30	4525.21	2.50	4063.67	9215.72	4063.67	0.898
1 SLU	7.67	11.90	4.23	h	ø6/20 2 br.	2.83	0.30	4173.24	2.50	4063.67	9215.72	4063.67	0.974
1 SLU	11.90	12.12	0.22	a	ø6/20 2 br.	2.83	0.30	3460.73	2.50	4063.67	9215.72	4063.67	1.174

Travata n. 3088

Nodi: 377 -627 -628 -629 -630 -631 -632 -633 378

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-142.75	-1506.47	10.554
1.60	1	SLU	5	0.00	3.08	3.08	3.08	3.08	73.23	1506.47	20.572
3.20	1	SLU	8	40.00	3.08	3.08	3.08	3.08	-122.23	-1506.47	12.325

Stato limite d'esercizio - Verifiche tensionali



Relazione di calcolo

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_e$ sup <daN/cmq>	$\sigma_e$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-101.98	270.48	-63.90	11.35
0.00	4	SLE Q	1	0.00	3.08	3.08	-87.70	232.58	-54.95	9.76
1.60	2	SLE R	5	0.00	3.08	3.08	50.60	-31.71	134.21	5.63
1.60	4	SLE Q	5	0.00	3.08	3.08	42.03	-26.33	111.47	4.68
3.20	2	SLE R	8	40.00	3.08	3.08	-87.61	232.36	-54.89	9.75
3.20	4	SLE Q	8	40.00	3.08	3.08	-68.88	182.67	-43.16	7.67

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-87.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	232.58	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-91.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	243.41	0.07	0.01
7	1.60	4	SLE Q	5	19	0.00	42.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	111.47	0.03	0.01
8	1.60	3	SLE F	5	19	0.00	44.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	117.96	0.03	0.01
11	3.20	4	SLE Q	8	19	40.00	-68.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	182.67	0.05	0.01
12	3.20	3	SLE F	8	19	40.00	-74.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	196.86	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	520.36	2.50	7185.75	7873.13	7185.75	13.809
1 SLU	0.14	3.06	2.91	ø6/ 8 2 br.	7.07	0.20	520.36	2.50	7185.75	7873.13	7185.75	13.809
1 SLU	3.06	3.20	0.14	ø6/ 8 2 br.	7.07	0.20	241.60	2.50	7185.75	7873.13	7185.75	29.742

Travata n. 3130

Nodi: 361 -316 -317 -318 -319 -320 -321 -322 -323 362

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50		28.35	262.44	174.96	15.75	4300.00	3583.33 3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	30.95	1506.47	48.669
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	125.54	1506.47	12.000
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	25.31	1506.47	59.521

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_e$ sup <daN/cmq>	$\sigma_e$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	22.89	-14.34	60.70	2.55
0.00	4	SLE Q	1	0.00	3.08	3.08	20.03	-12.55	53.13	2.23
1.44	2	SLE R	5	0.00	3.08	3.08	91.56	-57.37	242.83	10.19
1.44	4	SLE Q	5	0.00	3.08	3.08	76.36	-47.84	202.51	8.50
3.25	2	SLE R	9	36.11	3.08	3.08	18.80	-11.78	49.85	2.09
3.25	4	SLE Q	9	36.11	3.08	3.08	16.56	-10.38	43.93	1.84

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	20.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.13	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	20.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.29	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	76.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	202.51	0.06	0.01
8	1.44	3	SLE F	5	19	0.00	80.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	214.02	0.06	0.01
12	3.25	4	SLE Q	9	19	36.11	16.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	43.93	0.01	0.00
13	3.25	3	SLE F	9	19	36.11	17.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	45.62	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	181.33	2.50	7185.75	7873.13	7185.75	39.628
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	77.20	2.50	7185.75	7873.13	7185.75	93.078
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	197.84	2.50	7185.75	7873.13	7185.75	36.321

Travata n. 3131

Nodi: 379 -634 -635 -636 -637 -638 -639 -640 380

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
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## Relazione di calcolo

19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
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### Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-118.67	-1506.47	12.695
1.591	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	88.94	1506.47	16.938
3.181	SLU	8	39.75	3.08	3.08	3.08	3.08	3.08	-197.19	-1506.47	7.640

### Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cm <sup>2</sup> >	$\sigma_f$ inf <daN/cm <sup>2</sup> >	$\sigma_c$ <daN/cm <sup>2</sup> >
0.002	SLE R	1	0.00	3.08	3.08	-85.04	225.53	-53.28		9.47
0.004	SLE Q	1	0.00	3.08	3.08	-66.78	177.11	-41.84		7.43
1.592	SLE R	5	0.00	3.08	3.08	62.19	-38.96	164.93		6.92
1.594	SLE Q	5	0.00	3.08	3.08	52.92	-33.16	140.34		5.89
3.182	SLE R	8	39.75	3.08	3.08	-141.62	375.59	-88.73		15.76
3.184	SLE Q	8	39.75	3.08	3.08	-122.62	325.20	-76.83		13.65

### Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez .	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-66.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	177.11	0.05	0.01
4	0.00	3	SLE F	1	19	0.00	-71.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	190.94	0.06	0.01
7	1.59	4	SLE Q	5	19	0.00	52.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.34	0.04	0.01
8	1.59	3	SLE F	5	19	0.00	55.57	28.00	134.00	0.50	14.00	93.58	3.08	82.65	147.37	0.04	0.01
11	3.18	4	SLE Q	8	19	39.75	-122.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	325.20	0.09	0.02
12	3.18	3	SLE F	8	19	39.75	-128.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	339.61	0.10	0.02

### Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	257.35	2.50	7185.75	7873.13	7185.75	27.922
1 SLU	0.14	3.04	2.89	ø6/ 8 2 br.	7.07	0.20	257.35	2.50	7185.75	7873.13	7185.75	27.922
1 SLU	3.04	3.18	0.14	ø6/ 8 2 br.	7.07	0.20	48.15	2.50	7185.75	7873.13	7185.75	>100

## Travata n. 3173

Nodi: 363 -324 -325 -326 -327 -328 -329 -330 364

### Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

### Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-198.39	-1506.47	7.594
1.501	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	229.09	1506.47	6.576
3.001	SLU	8	37.50	3.08	3.08	3.08	3.08	3.08	-191.77	-1506.47	7.856

### Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cm <sup>2</sup> >	$\sigma_f$ inf <daN/cm <sup>2</sup> >	$\sigma_c$ <daN/cm <sup>2</sup> >
0.002	SLE R	1	0.00	3.08	3.08	-150.74	399.78	-94.45		16.78
0.004	SLE Q	1	0.00	3.08	3.08	-141.92	376.40	-88.92		15.80
1.502	SLE R	5	0.00	3.08	3.08	172.06	-107.81	456.33		19.15
1.504	SLE Q	5	0.00	3.08	3.08	156.35	-97.96	414.65		17.40
3.002	SLE R	8	37.50	3.08	3.08	-145.91	386.99	-91.43		16.24
3.004	SLE Q	8	37.50	3.08	3.08	-137.75	365.35	-86.31		15.33

### Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez .	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c off</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-141.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	376.40	0.11	0.02
4	0.00	3	SLE F	1	19	0.00	-144.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	383.08	0.11	0.02
7	1.50	4	SLE Q	5	19	0.00	156.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	414.65	0.12	0.02
8	1.50	3	SLE F	5	19	0.00	160.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	426.56	0.12	0.02
11	3.00	4	SLE Q	8	19	37.50	-137.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	365.35	0.11	0.02
12	3.00	3	SLE F	8	19	37.50	-140.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	371.53	0.11	0.02

### Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	890.72	2.50	7185.75	7873.13	7185.75	8.067



Relazione di calcolo

1 SLU	0.14	2.85	2.71	ø6/ 8 2 br.	7.07	0.20	591.00	2.50	7185.75	7873.13	7185.75	12.159
1 SLU	2.85	3.00	0.14	ø6/ 8 2 br.	7.07	0.20	886.69	2.50	7185.75	7873.13	7185.75	8.104

Travata n. 3174

Nodi: 381 -641 -642 -643 -644 -645 -646 -647 -648 382

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-139.30	-1506.47	10.815
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	84.40	1506.47	17.849
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-127.62	-1506.47	11.804

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-99.00	262.57	-62.03	11.02
0.00	4	SLE Q	1	0.00	3.08	3.08	-84.22	223.35	-52.77	9.37
1.44	2	SLE R	5	0.00	3.08	3.08	58.49	-36.65	155.12	6.51
1.44	4	SLE Q	5	0.00	3.08	3.08	48.74	-30.54	129.26	5.43
3.25	2	SLE R	9	36.11	3.08	3.08	-91.58	242.88	-57.38	10.19
3.25	4	SLE Q	9	36.11	3.08	3.08	-72.35	191.89	-45.33	8.05

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-84.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	223.35	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-88.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	234.56	0.07	0.01
7	1.44	4	SLE Q	5	19	0.00	48.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	129.26	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	51.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	136.52	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	-72.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	191.89	0.06	0.01
12	3.25	3	SLE F	9	19	36.11	-77.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	206.45	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm²/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	677.15	2.50	7185.75	7873.13	7185.75	10.612
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	677.15	2.50	7185.75	7873.13	7185.75	10.612
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	220.93	2.50	7185.75	7873.13	7185.75	32.525

Travata n. 3216

Nodi: 365 -331 -332 -333 -334 -335 -336 -337 -338 366

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	19.46	1506.47	77.419
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	149.11	1506.47	10.103
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	38.18	1506.47	39.453

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>ε</sub> sup	σ <sub>ε</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	14.50	-9.08	38.45	1.61
0.00	4	SLE Q	1	0.00	3.08	3.08	12.99	-8.14	34.44	1.45
1.62	2	SLE R	5	18.06	3.08	3.08	108.76	-68.14	288.44	12.11
1.62	4	SLE Q	5	18.06	3.08	3.08	90.63	-56.78	240.35	10.09
3.25	2	SLE R	9	36.11	3.08	3.08	28.18	-17.66	74.75	3.14
3.25	4	SLE Q	9	36.11	3.08	3.08	24.52	-15.36	65.02	2.73

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
5	0.00	4	SLE Q	1	19	0.00	12.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	34.44	0.01	0.00



Relazione di calcolo

7	0.00	3	SLE F	1	19	0.00	13.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	35.59	0.01	0.00
11	1.62	4	SLE Q	5	19	18.06	90.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	240.35	0.07	0.01
12	1.62	3	SLE F	5	19	18.06	95.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	254.06	0.07	0.01
15	3.25	4	SLE Q	9	19	36.11	24.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	65.02	0.02	0.00
16	3.25	3	SLE F	9	19	36.11	25.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	67.80	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	217.97	2.50	7185.75	7873.13	7185.75	32.966
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	97.33	2.50	7185.75	7873.13	7185.75	73.826
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	177.38	2.50	7185.75	7873.13	7185.75	40.511

Travata n. 3217

Nodi: 383 -649 -650 -651 -652 -653 -654 -655 -656 384

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-108.69	-1506.47	13.860
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	94.32	1506.47	15.972
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	-152.60	-1506.47	9.872

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.002	SLE R	1	0.00	3.08	3.08	3.08	-77.58	205.75	-48.61	8.64
0.004	SLE Q	1	0.00	3.08	3.08	3.08	-59.02	156.53	-36.98	6.57
1.442	SLE R	5	0.00	3.08	3.08	3.08	66.32	-41.56	175.90	7.38
1.444	SLE Q	5	0.00	3.08	3.08	3.08	58.56	-36.69	155.31	6.52
3.232	SLE R	9	35.89	3.08	3.08	3.08	-108.76	288.44	-68.14	12.11
3.234	SLE Q	9	35.89	3.08	3.08	3.08	-93.03	246.73	-58.29	10.36

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
3	0.004	SLE	Q	1	19	0.00	-59.02	28.00	134.00	0.50	14.00	93.58	3.08	82.65	156.53	0.05	0.01
4	0.003	SLE	F	1	19	0.00	-64.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	170.59	0.05	0.01
7	1.444	SLE	Q	5	19	0.00	58.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.31	0.05	0.01
8	1.443	SLE	F	5	19	0.00	60.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	161.19	0.05	0.01
11	3.234	SLE	Q	9	19	35.89	-93.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	246.73	0.07	0.01
12	3.233	SLE	F	9	19	35.89	-97.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	258.66	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	279.40	2.50	7185.75	7873.13	7185.75	25.718
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	343.23	2.50	7185.75	7873.13	7185.75	20.936
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	343.23	2.50	7185.75	7873.13	7185.75	20.936

Travata n. 3259

Nodi: 367 -339 -340 -341 -342 -343 -344 -345 -346 368

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	30.16	1506.47	49.949
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	123.36	1506.47	12.212
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	26.52	1506.47	56.810

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>e</sub> sup <daN/cm>	σ <sub>e</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.002	SLE R	1	0.00	3.08	3.08	3.08	22.25	-13.94	59.01	2.48



Relazione di calcolo

0.004	SLE Q	1	0.00	3.08	3.08	19.38	-12.15	51.41	2.16
1.442	SLE R	5	0.00	3.08	3.08	89.81	-56.27	238.19	10.00
1.444	SLE Q	5	0.00	3.08	3.08	74.53	-46.70	197.66	8.30
3.252	SLE R	9	36.11	3.08	3.08	19.71	-12.35	52.27	2.19
3.254	SLE Q	9	36.11	3.08	3.08	17.42	-10.91	46.20	1.94

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmqr>		<mm>
3	0.004	SLE	Q	1	19	0.00	19.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.41	0.01	0.00
4	0.003	SLE	F	1	19	0.00	20.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.58	0.02	0.00
7	1.444	SLE	Q	5	19	0.00	74.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	197.66	0.06	0.01
8	1.443	SLE	F	5	19	0.00	78.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	209.24	0.06	0.01
11	3.254	SLE	Q	9	19	36.11	17.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	46.20	0.01	0.00
12	3.253	SLE	F	9	19	36.11	18.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	47.93	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	183.21	2.50	7185.75	7873.13	7185.75	39.221
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	62.57	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	172.19	2.50	7185.75	7873.13	7185.75	41.732

Travata n. 3302

Nodi: 369 -347 -348 -349 -350 -351 -352 -353 370

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-178.88	-1506.47	8.422
1.451	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	217.33	1506.47	6.932
2.901	SLU	8	36.25	3.08	3.08	3.08	3.08	3.08	-196.03	-1506.47	7.685

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cm q>	<daN/cm q>	<daN/cm q>
0.002	SLE R	1	0.00	3.08	3.08	-136.11	360.98	-85.28	15.15	
0.004	SLE Q	1	0.00	3.08	3.08	-128.43	340.60	-80.47	14.30	
1.452	SLE R	5	0.00	3.08	3.08	163.43	-102.40	433.44	18.19	
1.454	SLE Q	5	0.00	3.08	3.08	148.77	-93.21	394.56	16.56	
2.902	SLE R	8	36.25	3.08	3.08	-148.96	395.06	-93.33	16.58	
2.904	SLE Q	8	36.25	3.08	3.08	-140.52	372.68	-88.05	15.64	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmqs>		<mm>
3	0.004	SLE	Q	1	19	0.00	-128.43	28.00	134.00	0.50	14.00	93.58	3.08	82.65	340.60	0.10	0.02
4	0.003	SLE	F	1	19	0.00	-130.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	346.42	0.10	0.02
7	1.454	SLE	Q	5	19	0.00	148.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	394.56	0.11	0.02
8	1.453	SLE	F	5	19	0.00	152.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	405.66	0.12	0.02
11	2.904	SLE	Q	8	19	36.25	-140.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	372.68	0.11	0.02
12	2.903	SLE	F	8	19	36.25	-142.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	379.08	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	862.20	2.50	7185.75	7873.13	7185.75	8.334
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	595.56	2.50	7185.75	7873.13	7185.75	12.066
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	895.27	2.50	7185.75	7873.13	7185.75	8.026

Travata n. 3345

Nodi: 371 -354 -355 -356 -357 -358 -359 -360 -361 372

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione



Relazione di calcolo

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	13.89	1506.47	>100
1.61	1	SLU	5	17.94	3.08	3.08	3.08	3.08	97.67	1506.47	15.424
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	21.28	1506.47	70.786

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_{\epsilon}$ sup	$\sigma_{\epsilon}$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	9.91	-6.21	26.28	1.10
0.00	4	SLE Q	1	0.00	3.08	3.08	7.64	-4.79	20.27	0.85
1.61	2	SLE R	5	17.94	3.08	3.08	69.45	-43.52	184.20	7.73
1.61	4	SLE Q	5	17.94	3.08	3.08	53.13	-33.29	140.90	5.91
3.23	2	SLE R	9	35.89	3.08	3.08	15.22	-9.54	40.37	1.69
3.23	4	SLE Q	9	35.89	3.08	3.08	11.95	-7.49	31.70	1.33

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	7.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	20.27	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	8.29	28.00	134.00	0.50	14.00	93.58	3.08	82.65	21.98	0.01	0.00
7	1.61	4	SLE Q	5	19	17.94	53.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.90	0.04	0.01
8	1.61	3	SLE F	5	19	17.94	57.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	153.22	0.04	0.01
11	3.23	4	SLE Q	9	19	35.89	11.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	31.70	0.01	0.00
12	3.23	3	SLE F	9	19	35.89	12.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	34.18	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	41.78	2.50	7185.75	7873.13	7185.75	>100
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	24.81	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	38.39	2.50	7185.75	7873.13	7185.75	>100

Travata n. 5021

Nodi: 561 -1161 -1236 -1324 -1451 508

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	0.00	3.08	3.08	3.08	3.08	-702.68	-1506.47	2.144

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_{\epsilon}$ sup	$\sigma_{\epsilon}$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	0.00	3.08	3.08	-519.58	1378.01	-325.56	57.84
1.90	4	SLE Q	5	0.00	3.08	3.08	-436.58	1157.87	-273.55	48.60

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	0.00	-436.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1157.87	0.38	0.06
4	1.90	3	SLE F	5	19	0.00	-460.29	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1220.76	0.36	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	152.09	2.50	7185.75	7873.13	7185.75	47.246
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	169.06	2.50	7185.75	7873.13	7185.75	42.505

Travata n. 5022

Nodi: 562 -1215 -1302 577 509

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione



Relazione di calcolo

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	1	SLU	4	70.00	3.08	3.08	3.08	3.08	-578.28	-1506.47	2.605

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	2	SLE R	4	70.00	3.08	3.08	-424.88	1126.85	-266.22	47.30
1.904	4	SLE Q	4	70.00	3.08	3.08	-358.31	950.27	-224.50	39.89

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	4	19	70.00	-358.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	950.27	0.28	0.04
4	1.903	SLE F	4	19	70.00	-377.33	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	1000.72	0.29	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	551.01	2.50	7185.75	7873.13	7185.75	13.041
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	567.97	2.50	7185.75	7873.13	7185.75	12.652

Travata n. 5023

Nodi: 563 -1216 -1303 578 -1511 510

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	1	SLU	5	35.06	6.03	4.02	6.03	4.02	-8293.18	-9551.64	1.152

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	2	SLE R	5	35.06	6.03	4.02	-6127.41	2398.11	-666.98	61.10
1.904	4	SLE Q	5	35.06	6.03	4.02	-5573.43	2181.30	-606.68	55.57

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	30	35.06	-5573.43	27.00	116.00	0.50	16.00	123.63	6.03	262.50	262.50	2181.30	0.90	0.19
4	1.903	SLE F	5	30	35.06	-5731.71	27.00	116.00	0.50	16.00	123.63	6.03	262.50	262.50	2243.25	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4032.90	2.50	10241.80	20904.00	10241.80	2.540
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5177.35	2.50	10241.80	20904.00	10241.80	1.978

Travata n. 5024

Nodi: 589 -1708 599 544

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-428.97	-2142.71	4.995

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	2	SLE R	3	332.00	3.08	3.08	-304.40	554.50	-148.71	19.57
4.824	4	SLE Q	3	332.00	3.08	3.08	-236.41	430.65	-115.49	15.20



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-236.41	28.00	114.00	0.50	14.00	102.12	3.08	101.43	430.65	0.13	0.02
4	4.82	3	SLE F	3	18	332.00	-255.80	28.00	114.00	0.50	14.00	102.12	3.08	101.43	465.97	0.14	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2659.98	2.50	7619.38	26714.30	7619.38	2.864
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	443.21	2.50	5079.58	10017.90	5079.58	11.461
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	472.00	2.50	5079.58	10017.90	5079.58	10.762

Travata n. 5027

Nodi: 592 -1712 600 545

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R		18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-283.53	-2142.71	7.557

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-201.17	366.45	-98.27	12.93
4.82	4	SLE Q	3	332.00	3.08	3.08	-148.91	271.26	-72.75	9.57

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-148.91	28.00	114.00	0.50	14.00	102.12	3.08	101.43	271.26	0.08	0.01
4	4.82	3	SLE F	3	18	332.00	-163.84	28.00	114.00	0.50	14.00	102.12	3.08	101.43	298.46	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	1915.35	2.50	7619.38	26714.30	7619.38	3.978
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	340.84	2.50	5079.58	10017.90	5079.58	14.903
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	369.62	2.50	5079.58	10017.90	5079.58	13.743

Travata n. 5028

Nodi: 564 -1217 -1304 579 -1512 511

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30R		30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.09	6.03	4.02	6.03	4.02	-8264.06	-9551.64	1.156

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.09	6.03	4.02	-6106.43	2389.90	-664.70	60.89
1.90	4	SLE Q	5	35.09	6.03	4.02	-5555.23	2174.18	-604.70	55.39

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.09	-5555.23	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2174.18	0.90	0.19
4	1.90	3	SLE F	5	30	35.09	-5712.72	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2235.81	0.85	0.18



Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4019.15	2.50	10241.80	20904.00	10241.80	2.548
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5148.11	2.50	10241.80	20904.00	10241.80	1.989

Travata n. 5029

Nodi: 565 -1218 -1305 580 512

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.901	SLU	4	70.00	3.08	3.08	3.08	3.08	3.08	-574.77	-1506.47	2.621

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.902	SLE R	4	70.00	3.08	3.08	-422.11	1119.50	-264.48		46.99
1.904	SLE Q	4	70.00	3.08	3.08	-355.62	943.16	-222.82		39.59

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	1.904	SLE Q	4	19	70.00	-355.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65		943.16	0.28	0.04
4	1.903	SLE F	4	19	70.00	-374.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65		993.54	0.29	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	547.13	2.50	7185.75	7873.13	7185.75	13.133
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	564.10	2.50	7185.75	7873.13	7185.75	12.739

Travata n. 5032

Nodi: 567 -1177 -1248 -1314 -1434 515

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.901	SLU	5	38.00	3.08	3.08	3.08	3.08	3.08	-699.82	-1506.47	2.153

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.902	SLE R	5	38.00	3.08	3.08	-517.46	1372.37	-324.22		57.60
1.904	SLE Q	5	38.00	3.08	3.08	-434.77	1153.07	-272.41		48.40

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	1.904	SLE Q	5	19	38.00	-434.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65		1153.07	0.38	0.06
4	1.903	SLE F	5	19	38.00	-458.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65		1215.73	0.35	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	146.94	2.50	7185.75	7873.13	7185.75	48.904
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	163.90	2.50	7185.75	7873.13	7185.75	43.842

Travata n. 5033

Nodi: 568 -1219 -1306 581 -1514 516

Caratteristiche delle sezioni e dei materiali utilizzati



Relazione di calcolo

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-585.37	-1506.47	2.574

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.44	3.08	3.08	-430.22	1141.01	-269.56	47.89
1.90	4	SLE Q	5	35.44	3.08	3.08	-362.07	960.26	-226.86	40.31

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.44	-362.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	960.26	0.28	0.05
4	1.90	3	SLE F	5	19	35.44	-381.54	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1011.90	0.29	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	512.47	2.50	7185.75	7873.13	7185.75	14.022
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	529.44	2.50	7185.75	7873.13	7185.75	13.572

Travata n. 5035

Nodi: 593 -1713 601 551

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-467.46	-2142.71	4.584

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-332.43	605.57	-162.40	21.37
4.82	4	SLE Q	3	332.00	3.08	3.08	-259.37	472.48	-126.71	16.67

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-259.37	28.00	114.00	0.50	14.00	102.12	3.08	101.43	472.48	0.14	0.02
4	4.82	3	SLE F	3	18	332.00	-280.19	28.00	114.00	0.50	14.00	102.12	3.08	101.43	510.40	0.15	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2484.13	2.50	7619.38	26714.30	7619.38	3.067
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	458.82	2.50	5079.58	10017.90	5079.58	11.071
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	487.61	2.50	5079.58	10017.90	5079.58	10.417

Travata n. 5036

Nodi: 569 -1220 -1307 582 -1515 517

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-8146.85	-9551.64	1.172



Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cm q>	σ <sub>f</sub> inf <daN/cm q>	σ <sub>c</sub> <daN/cm q>
1.902	SLE R	5	35.41	6.03	4.02	-6019.24	2355.78	-655.21	60.02	
1.904	SLE Q	5	35.41	6.03	4.02	-5478.15	2144.01	-596.31	54.62	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cm q>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5	30	35.41	-5478.15	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2144.01	0.88	0.19	
4	1.903	SLE F	5	30	35.41	-5632.74	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2204.51	0.83	0.17	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4004.71	2.50	10241.80	20904.00	10241.80	2.557
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5015.55	2.50	10241.80	20904.00	10241.80	2.042

Travata n. 5040

Nodi: 570 -1221 -1308 583 -1516 518

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.38	6.03	4.02	6.03	4.02	-8095.71	-9551.64	1.180	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
1.902	SLE R	5	35.38	6.03	4.02	-5981.79	2341.12	-651.13	59.65	
1.904	SLE Q	5	35.38	6.03	4.02	-5442.85	2130.20	-592.47	54.27	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cm q>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5	30	35.38	-5442.85	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2130.20	0.87	0.18	
4	1.903	SLE F	5	30	35.38	-5596.84	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2190.46	0.82	0.17	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.38	1.38	ø6/18 2 br.	3.14	0.30	3921.31	2.50	10241.80	20904.00	10241.80	2.612
1 SLU	1.38	1.90	0.52	ø6/18 2 br.	3.14	0.30	5021.50	2.50	10241.80	20904.00	10241.80	2.040

Travata n. 5041

Nodi: 596 -1717 602 552

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-298.34	-2142.71	7.182

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
4.822	2	SLE R	3	332.00	3.08	3.08	-212.42	386.94	-103.77	13.65
4.824	4	SLE Q	3	332.00	3.08	3.08	-158.14	288.07	-77.25	10.16

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
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Relazione di calcolo

3	4.82	4	SLE Q	3	18	332.00	-158.14	28.00	114.00	0.50	14.00	102.12	3.08	101.43	288.07	0.08	0.01
4	4.82	3	SLE F	3	18	332.00	-173.65	28.00	114.00	0.50	14.00	102.12	3.08	101.43	316.31	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	1822.41	2.50	7619.38	26714.30	7619.38	4.181
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	346.11	2.50	5079.58	10017.90	5079.58	14.676
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	374.89	2.50	5079.58	10017.90	5079.58	13.549

Travata n. 5042

Nodi: 571 -1222 -1309 584 -1517 519

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.43	3.08	3.08	3.08	3.08	-564.15	-1506.47	2.670

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>e</sub> sup <daN/cm<sup>q>	σ <sub>e</sub> inf <daN/cm<sup>q>	σ <sub>c</sub> <daN/cm<sup>q>
1.90	2	SLE R	5	35.43	3.08	3.08	-415.41	1101.72	-260.28	46.24
1.90	4	SLE Q	5	35.43	3.08	3.08	-347.13	920.65	-217.50	38.64

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm<sup>q>	A <sub>c eff</sub> <cm<sup>q>	σ <sub>s</sub> <daN/cm<sup>q>	ε <sub>sm</sub>	Wk <mm>
3	1.90	4	SLE Q	5	19	35.43	-347.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	920.65	0.27	0.04
4	1.90	3	SLE F	5	19	35.43	-366.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	972.38	0.28	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	490.84	2.50	7185.75	7873.13	7185.75	14.640
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	507.81	2.50	7185.75	7873.13	7185.75	14.151

Travata n. 5088

Nodi: 577 -1401 -1402 -1403 -1404 -1405 -1406 -1407 578

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-144.20	-1506.47	10.447
1.80	1	SLU	5	20.00	3.08	3.08	3.08	3.08	77.00	1506.47	19.564
3.20	1	SLU	8	40.00	3.08	3.08	3.08	3.08	-108.85	-1506.47	13.840

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>e</sub> sup <daN/cm<sup>q>	σ <sub>e</sub> inf <daN/cm<sup>q>	σ <sub>c</sub> <daN/cm<sup>q>
0.00	2	SLE R	1	0.00	3.08	3.08	-103.26	273.87	-64.70	11.50
0.00	4	SLE Q	1	0.00	3.08	3.08	-90.63	240.35	-56.78	10.09
1.80	2	SLE R	5	20.00	3.08	3.08	53.65	-33.62	142.29	5.97
1.80	4	SLE Q	5	20.00	3.08	3.08	46.62	-29.21	123.65	5.19
3.20	2	SLE R	8	40.00	3.08	3.08	-77.54	205.64	-48.58	8.63
3.20	4	SLE Q	8	40.00	3.08	3.08	-58.17	154.27	-36.45	6.48

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm<sup>q>	A <sub>c eff</sub> <cm<sup>q>	σ <sub>s</sub> <daN/cm<sup>q>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-90.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	240.35	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-94.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	249.94	0.07	0.01
7	1.80	4	SLE Q	5	19	20.00	46.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	123.65	0.04	0.01
8	1.80	3	SLE F	5	19	20.00	48.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	128.88	0.04	0.01



Relazione di calcolo

11	3.204	SLE Q	8	19	40.00	-58.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	154.27	0.04	0.01
12	3.203	SLE F	8	19	40.00	-63.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	168.93	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	499.38	2.50	7185.75	7873.13	7185.75	14.389
1 SLU	0.14	3.06	2.91	ø6/ 8 2 br.	7.07	0.20	499.38	2.50	7185.75	7873.13	7185.75	14.389
1 SLU	3.06	3.20	0.14	ø6/ 8 2 br.	7.07	0.20	262.63	2.50	7185.75	7873.13	7185.75	27.360

Travata n. 5130

Nodi: 561 -1090 -1091 -1092 -1093 -1094 -1095 -1096 -1097 562

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	30.15	1506.47	49.959
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	125.52	1506.47	12.002
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	26.30	1506.47	57.291

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	22.28	-13.96	59.08	2.48	
0.004	SLE Q	1	0.00	3.08	3.08	19.48	-12.21	51.68	2.17	
1.442	SLE R	5	0.00	3.08	3.08	91.47	-57.31	242.59	10.18	
1.444	SLE Q	5	0.00	3.08	3.08	76.08	-47.67	201.77	8.47	
3.252	SLE R	9	36.11	3.08	3.08	19.50	-12.22	51.72	2.17	
3.254	SLE Q	9	36.11	3.08	3.08	17.08	-10.70	45.29	1.90	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	19.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.68	0.02	0.00
4	0.003	SLE	F	1	19	0.00	20.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.79	0.02	0.00
7	1.444	SLE	Q	5	19	0.00	76.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	201.77	0.06	0.01
8	1.443	SLE	F	5	19	0.00	80.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	213.43	0.06	0.01
11	3.254	SLE	Q	9	19	36.11	17.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	45.29	0.01	0.00
12	3.253	SLE	F	9	19	36.11	17.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	47.13	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	182.18	2.50	7185.75	7873.13	7185.75	39.443
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	76.01	2.50	7185.75	7873.13	7185.75	94.531
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	196.66	2.50	7185.75	7873.13	7185.75	36.540

Travata n. 5131

Nodi: 579 -1408 -1409 -1410 -1411 -1412 -1413 -1414 580

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-112.49	-1506.47	13.392
1.191	SLU	4	0.00	3.08	3.08	3.08	3.08	3.08	70.94	1506.47	21.237
3.181	SLU	8	39.75	3.08	3.08	3.08	3.08	3.08	-143.60	-1506.47	10.491

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cm<sup>q>	σ <sub>f</sub> inf <daN/cm<sup>q>	σ <sub>c</sub> <daN/cm<sup>q>
0.002	SLE R	1	0.00	3.08	3.08	-80.24	212.82	-50.28	8.93	
0.004	SLE Q	1	0.00	3.08	3.08	-60.50	160.45	-37.91	6.73	
1.192	SLE R	4	0.00	3.08	3.08	49.20	-30.83	130.49	5.48	
1.194	SLE Q	4	0.00	3.08	3.08	42.67	-26.74	113.17	4.75	



Relazione di calcolo

3.18	2	SLE R	8	39.75	3.08	3.08	-102.90	272.91	-64.47	11.45
3.18	4	SLE Q	8	39.75	3.08	3.08	-90.47	239.93	-56.68	10.07

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-60.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	160.45	0.05	0.01
4	0.00	3	SLE F	1	19	0.00	-66.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	175.40	0.05	0.01
7	1.19	4	SLE Q	4	19	0.00	42.67	28.00	134.00	0.50	14.00	93.58	3.08	82.65	113.17	0.03	0.01
8	1.19	3	SLE F	4	19	0.00	44.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	117.89	0.03	0.01
11	3.18	4	SLE Q	8	19	39.75	-90.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	239.93	0.07	0.01
12	3.18	3	SLE F	8	19	39.75	-94.02	28.00	134.00	0.50	14.00	93.58	3.08	82.65	249.36	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	267.40	2.50	7185.75	7873.13	7185.75	26.873
1 SLU	0.14	3.04	2.89	ø6/ 8 2 br.	7.07	0.20	493.11	2.50	7185.75	7873.13	7185.75	14.572
1 SLU	3.04	3.18	0.14	ø6/ 8 2 br.	7.07	0.20	493.11	2.50	7185.75	7873.13	7185.75	14.572

Travata n. 5173

Nodi: 563 -1098 -1099 -1100 -1101 -1102 -1103 -1104 564

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-196.56	-1506.47	7.664
1.50	1	SLU	5	0.00	3.08	3.08	3.08	3.08	229.84	1506.47	6.555
3.00	1	SLU	8	37.50	3.08	3.08	3.08	3.08	-192.75	-1506.47	7.816

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>r</sub> sup	σ <sub>r</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-149.37	396.15	-93.59	16.63
0.00	4	SLE Q	1	0.00	3.08	3.08	-140.51	372.66	-88.04	15.64
1.50	2	SLE R	5	0.00	3.08	3.08	172.63	-108.16	457.83	19.22
1.50	4	SLE Q	5	0.00	3.08	3.08	157.19	-98.49	416.90	17.50
3.00	2	SLE R	8	37.50	3.08	3.08	-146.64	388.90	-91.88	16.32
3.00	4	SLE Q	8	37.50	3.08	3.08	-138.20	366.53	-86.59	15.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-140.51	28.00	134.00	0.50	14.00	93.58	3.08	82.65	372.66	0.11	0.02
4	0.00	3	SLE F	1	19	0.00	-143.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	379.37	0.11	0.02
7	1.50	4	SLE Q	5	19	0.00	157.19	28.00	134.00	0.50	14.00	93.58	3.08	82.65	416.90	0.12	0.02
8	1.50	3	SLE F	5	19	0.00	161.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	428.60	0.12	0.02
11	3.00	4	SLE Q	8	19	37.50	-138.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	366.53	0.11	0.02
12	3.00	3	SLE F	8	19	37.50	-140.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	372.92	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	889.68	2.50	7185.75	7873.13	7185.75	8.077
1 SLU	0.14	2.85	2.71	ø6/ 8 2 br.	7.07	0.20	589.96	2.50	7185.75	7873.13	7185.75	12.180
1 SLU	2.85	3.00	0.14	ø6/ 8 2 br.	7.07	0.20	888.85	2.50	7185.75	7873.13	7185.75	8.084

Travata n. 5174

Nodi: 581 -1415 -1416 -1417 -1418 -1419 -1420 -1421 -1422 582

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-150.46	-1506.47	10.012



Relazione di calcolo

1.81	1	SLU	5	36.11	3.08	3.08	3.08	3.08	90.67	1506.47	16.614
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-111.71	-1506.47	13.486

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-107.75	285.78	-67.51	12.00
0.00	4	SLE Q	1	0.00	3.08	3.08	-94.41	250.38	-59.15	10.51
1.81	2	SLE R	5	36.11	3.08	3.08	63.18	-39.59	167.56	7.03
1.81	4	SLE Q	5	36.11	3.08	3.08	54.65	-34.24	144.94	6.08
3.25	2	SLE R	9	36.11	3.08	3.08	-79.59	211.07	-49.87	8.86
3.25	4	SLE Q	9	36.11	3.08	3.08	-59.96	159.01	-37.57	6.67

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-94.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	250.38	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-98.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	260.51	0.08	0.01
7	1.81	4	SLE Q	5	19	36.11	54.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	144.94	0.04	0.01
8	1.81	3	SLE F	5	19	36.11	57.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	151.41	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	-59.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	159.01	0.05	0.01
12	3.25	3	SLE F	9	19	36.11	-65.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	173.87	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	589.38	2.50	7185.75	7873.13	7185.75	12.192
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	589.38	2.50	7185.75	7873.13	7185.75	12.192
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	274.29	2.50	7185.75	7873.13	7185.75	26.198

Travata n. 5216

Nodi: 565 -1105 -1106 -1107 -1108 -1109 -1110 -1111 -1112 566

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	25.59	1506.47	58.866
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	126.53	1506.47	11.905
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	31.35	1506.47	48.051

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	18.99	-11.90	50.37	2.11
0.00	4	SLE Q	1	0.00	3.08	3.08	16.65	-10.43	44.16	1.85
1.62	2	SLE R	5	18.06	3.08	3.08	92.22	-57.78	244.58	10.27
1.62	4	SLE Q	5	18.06	3.08	3.08	76.79	-48.11	203.66	8.55
3.25	2	SLE R	9	36.11	3.08	3.08	23.16	-14.51	61.41	2.58
3.25	4	SLE Q	9	36.11	3.08	3.08	20.26	-12.69	53.73	2.26

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	16.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	44.16	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	17.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	45.93	0.01	0.00
7	1.62	4	SLE Q	5	19	18.06	76.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	203.66	0.06	0.01
8	1.62	3	SLE F	5	19	18.06	81.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	215.35	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	20.26	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.73	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	21.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.92	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	195.44	2.50	7185.75	7873.13	7185.75	36.768
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	74.80	2.50	7185.75	7873.13	7185.75	96.071
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	183.57	2.50	7185.75	7873.13	7185.75	39.144

Travata n. 5217



Relazione di calcolo

Nodi: 583 -1423 -1424 -1425 -1426 -1427 -1428 -1429 -1430 584

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-100.87	-1506.47	14.934
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	90.07	1506.47	16.725
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-146.94	-1506.47	10.252

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	$\sigma_e$ sup <daN/cm>	$\sigma_e$ inf <daN/cm>	$\sigma_c$ <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-72.00	190.94	-45.11	8.01
0.00	4	SLE Q	1	0.00	3.08	3.08	-53.40	141.62	-33.46	5.94
1.44	2	SLE R	5	0.00	3.08	3.08	62.64	-39.25	166.14	6.97
1.44	4	SLE Q	5	0.00	3.08	3.08	54.06	-33.87	143.37	6.02
3.23	2	SLE R	9	35.89	3.08	3.08	-105.32	279.31	-65.99	11.72
3.23	4	SLE Q	9	35.89	3.08	3.08	-92.83	246.19	-58.16	10.33

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	$\sigma_s$ <daN/cm>	$\epsilon_{sm}$	W <sub>k</sub> <mm>
3	0.00	4	SLE Q	1	19	0.00	-53.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	141.62	0.04	0.01
4	0.00	3	SLE F	1	19	0.00	-58.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.72	0.05	0.01
7	1.44	4	SLE Q	5	19	0.00	54.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	143.37	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	56.51	28.00	134.00	0.50	14.00	93.58	3.08	82.65	149.87	0.04	0.01
11	3.23	4	SLE Q	9	19	35.89	-92.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	246.19	0.07	0.01
12	3.23	3	SLE F	9	19	35.89	-96.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	255.69	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	280.46	2.50	7185.75	7873.13	7185.75	25.621
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	573.34	2.50	7185.75	7873.13	7185.75	12.533
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	573.34	2.50	7185.75	7873.13	7185.75	12.533

Travata n. 5259

Nodi: 567 -1113 -1114 -1115 -1116 -1117 -1118 -1119 -1120 568

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	30.35	1506.47	49.641
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	127.08	1506.47	11.854
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	26.80	1506.47	56.213

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	$\sigma_e$ sup <daN/cm>	$\sigma_e$ inf <daN/cm>	$\sigma_c$ <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	22.42	-14.05	59.46	2.50
0.00	4	SLE Q	1	0.00	3.08	3.08	19.62	-12.30	52.05	2.18
1.44	2	SLE R	5	0.00	3.08	3.08	92.62	-58.03	245.64	10.31
1.44	4	SLE Q	5	0.00	3.08	3.08	77.11	-48.31	204.50	8.58
3.25	2	SLE R	9	36.11	3.08	3.08	19.87	-12.45	52.71	2.21
3.25	4	SLE Q	9	36.11	3.08	3.08	17.40	-10.90	46.15	1.94

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	$\sigma_s$ <daN/cm>	$\epsilon_{sm}$	W <sub>k</sub> <mm>
3	0.00	4	SLE Q	1	19	0.00	19.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.05	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	20.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.17	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	77.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	204.50	0.06	0.01
8	1.44	3	SLE F	5	19	0.00	81.54	28.00	134.00	0.50	14.00	93.58	3.08	82.65	216.25	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	17.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	46.15	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	18.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	48.02	0.01	0.00



Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	182.06	2.50	7185.75	7873.13	7185.75	39.468
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	76.52	2.50	7185.75	7873.13	7185.75	93.912
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	197.16	2.50	7185.75	7873.13	7185.75	36.447

Travata n. 5302

Nodi: 569 -1121 -1122 -1123 -1124 -1125 -1126 -1127 570

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-189.86	-1506.47	7.935
1.451	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	219.17	1506.47	6.873
2.901	SLU	8	36.25	3.08	3.08	3.08	3.08	3.08	-183.48	-1506.47	8.210

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	-144.33	382.77	-90.43	16.07
0.004	SLE	Q	1	0.00	3.08	3.08	-135.92	360.49	-85.17	15.13
1.452	SLE	R	5	0.00	3.08	3.08	164.80	-103.26	437.08	18.35
1.454	SLE	Q	5	0.00	3.08	3.08	150.33	-94.19	398.69	16.73
2.902	SLE	R	8	36.25	3.08	3.08	-139.57	370.15	-87.45	15.54
2.904	SLE	Q	8	36.25	3.08	3.08	-131.62	349.08	-82.47	14.65

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.004	SLE	Q	1	19	0.00	-135.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	360.49	0.10	0.02
4	0.003	SLE	F	1	19	0.00	-138.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	366.85	0.11	0.02
7	1.454	SLE	Q	5	19	0.00	150.33	28.00	134.00	0.50	14.00	93.58	3.08	82.65	398.69	0.12	0.02
8	1.453	SLE	F	5	19	0.00	154.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	409.66	0.12	0.02
11	2.904	SLE	Q	8	19	36.25	-131.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	349.08	0.10	0.02
12	2.903	SLE	F	8	19	36.25	-133.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	355.10	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	880.83	2.50	7185.75	7873.13	7185.75	8.158
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	581.12	2.50	7185.75	7873.13	7185.75	12.365
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	878.13	2.50	7185.75	7873.13	7185.75	8.183

Travata n. 5345

Nodi: 571 -1128 -1129 -1130 -1131 -1132 -1133 -1134 -1135 572

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	28.85	1506.47	52.225
1.611	SLU	5	17.94	3.08	3.08	3.08	3.08	3.08	133.20	1506.47	11.310
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	31.89	1506.47	47.235

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	21.27	-13.33	56.42	2.37
0.004	SLE	Q	1	0.00	3.08	3.08	18.64	-11.68	49.42	2.07
1.612	SLE	R	5	17.94	3.08	3.08	96.91	-60.72	257.03	10.79
1.614	SLE	Q	5	17.94	3.08	3.08	80.97	-50.73	214.73	9.01
3.232	SLE	R	9	35.89	3.08	3.08	23.54	-14.75	62.43	2.62
3.234	SLE	Q	9	35.89	3.08	3.08	20.61	-12.91	54.66	2.29



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	18.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	49.42	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	19.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.42	0.01	0.00
7	1.61	4	SLE Q	5	19	17.94	80.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	214.73	0.06	0.01
8	1.61	3	SLE F	5	19	17.94	85.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	226.81	0.07	0.01
11	3.23	4	SLE Q	9	19	35.89	20.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.66	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	21.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.89	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	194.92	2.50	7185.75	7873.13	7185.75	36.865
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	74.28	2.50	7185.75	7873.13	7185.75	96.742
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	184.91	2.50	7185.75	7873.13	7185.75	38.861

Travata n. 6024

Nodi: 599 655 -1793 644

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-1440.29	-13043.50	9.056	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.322	SLE R	3	52.50	6.16	3.08	-953.76	278.97	-108.28	8.78	
3.324	SLE Q	3	52.50	6.16	3.08	-506.23	148.07	-57.47	4.66	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-506.23	28.00	31.33	0.50	14.00	87.83	6.16	140.00	148.07	0.04	0.01
4	3.32	3	SLE F	3	16	52.50	-634.00	28.00	31.33	0.50	14.00	87.83	6.16	140.00	185.44	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1425.42	2.50	7619.38	26714.30	7619.38	5.345
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1425.42	2.50	7619.38	26714.30	7619.38	5.345
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2231.30	2.50	15238.80	26714.30	15238.80	6.830

Travata n. 6035

Nodi: 601 657 -1796 651

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-1746.25	-13043.50	7.469	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.322	SLE R	3	52.50	6.16	3.08	-1180.31	345.23	-134.00	10.86	
3.324	SLE Q	3	52.50	6.16	3.08	-695.15	203.32	-78.92	6.40	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-695.15	28.00	31.33	0.50	14.00	87.83	6.16	140.00	203.32	0.06	0.01



Relazione di calcolo

4	3.32	3	SLE F	3	16	52.50	-833.57	28.00	31.33	0.50	14.00	87.83	6.16	140.00	243.81	0.07	0.01
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Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1230.40	2.50	7619.38	26714.30	7619.38	6.193
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1230.40	2.50	7619.38	26714.30	7619.38	6.193
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2560.86	2.50	15238.80	26714.30	15238.80	5.951

Travata n. 7021

Nodi: 761 -1927 -2001 -2090 -2204 708

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	-699.13	-1506.47	2.155

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	SLE R	5	0.00	3.08	3.08	-516.93	1370.98	-323.89	57.54	
1.904	SLE Q	5	0.00	3.08	3.08	-434.28	1151.78	-272.11	48.34	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5	19	0.00	-434.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1151.78	0.38	0.06	
4	1.903	SLE F	5	19	0.00	-457.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1214.40	0.35	0.06	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	140.77	2.50	7185.75	7873.13	7185.75	51.045
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	157.74	2.50	7185.75	7873.13	7185.75	45.555

Travata n. 7022

Nodi: 762 -1980 -2067 777 709

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	4	70.00	3.08	3.08	3.08	3.08	3.08	-578.09	-1506.47	2.606

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	SLE R	4	70.00	3.08	3.08	-424.71	1126.39	-266.11	47.28	
1.904	SLE Q	4	70.00	3.08	3.08	-357.99	949.45	-224.31	39.85	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	4	19	70.00	-357.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	949.45	0.28	0.04	
4	1.903	SLE F	4	19	70.00	-377.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1000.00	0.29	0.05	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	550.02	2.50	7185.75	7873.13	7185.75	13.065
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	566.99	2.50	7185.75	7873.13	7185.75	12.674

Travata n. 7023



Nodi: 763 -1981 -2068 778 -2276 710

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.06	6.03	4.02	6.03	4.02	-8296.27	-9551.64	1.151

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.06	6.03	4.02	-6129.91	2399.09	-667.25	61.12
1.90	4	SLE Q	5	35.06	6.03	4.02	-5577.07	2182.72	-607.07	55.61

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.06	-5577.07	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2182.72	0.90	0.19
4	1.90	3	SLE F	5	30	35.06	-5735.02	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2244.54	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4035.57	2.50	10241.80	20904.00	2.538
1	SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5195.69	2.50	10241.80	20904.00	1.971

Travata n. 7024

Nodi: 789 -2473 799 744

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-355.87	-2142.71	6.021

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-251.20	457.59	-122.72	16.15
4.82	4	SLE Q	3	332.00	3.08	3.08	-189.37	344.96	-92.51	12.17

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-189.37	28.00	114.00	0.50	14.00	102.12	3.08	101.43	344.96	0.10	0.02
4	4.82	3	SLE F	3	18	332.00	-207.00	28.00	114.00	0.50	14.00	102.12	3.08	101.43	377.07	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2906.50	2.50	7619.38	26714.30	2.621
1	SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	408.86	2.50	5079.58	10017.90	12.424
1	SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	437.64	2.50	5079.58	10017.90	11.607

Travata n. 7027

Nodi: 792 -2477 800 745

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94



Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU		3	332.00	3.08	3.08	3.08	3.08	-259.49	-2142.71	8.258

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R		3	332.00	3.08	3.08	-183.43	334.13	-89.61	11.79
4.824	SLE Q		3	332.00	3.08	3.08	-133.07	242.40	-65.01	8.55

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q		3	18	332.00	-133.07	28.00	114.00	0.50	14.00	102.12	3.08	101.43	242.40	0.07	0.01
4	4.823	SLE F		3	18	332.00	-147.45	28.00	114.00	0.50	14.00	102.12	3.08	101.43	268.60	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2389.73	2.50	7619.38	26714.30	7619.38	3.188
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	335.59	2.50	5079.58	10017.90	5079.58	15.136
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	364.37	2.50	5079.58	10017.90	5079.58	13.941

Travata n. 7028

Nodi: 764 -1982 -2069 779 -2277 711

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	35.09	6.03	4.02	6.03	4.02	-8289.43	-9551.64	1.152

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.09	6.03	4.02	-6125.13	2397.22	-666.73	61.07
1.904	SLE Q		5	35.09	6.03	4.02	-5572.91	2181.10	-606.62	55.57

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	30	35.09	-5572.91	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2181.10	0.90	0.19
4	1.903	SLE F		5	30	35.09	-5730.70	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2242.85	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4030.84	2.50	10241.80	20904.00	10241.80	2.541
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5176.82	2.50	10241.80	20904.00	10241.80	1.978

Travata n. 7029

Nodi: 765 -1983 -2070 780 712

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		4	70.00	3.08	3.08	3.08	3.08	-573.89	-1506.47	2.625

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		4	70.00	3.08	3.08	-421.40	1117.62	-264.04	46.91
1.904	SLE Q		4	70.00	3.08	3.08	-354.91	941.26	-222.37	39.51



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904		SLE Q	4	19	70.00	-354.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	941.26	0.27	0.04
4	1.903		SLE F	4	19	70.00	-373.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	991.65	0.29	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	545.43	2.50	7185.75	7873.13	7185.75	13.174
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	562.40	2.50	7185.75	7873.13	7185.75	12.777

Travata n. 7032

Nodi: 767 -1948 -2013 -2085 -2198 715

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	38.00	3.08	3.08	3.08	3.08	3.08	-697.23	-1506.47	2.161

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>t</sub> sup	σ <sub>t</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	38.00	3.08	3.08	-515.58	1367.40	-323.05		57.39
1.904	SLE Q	5	38.00	3.08	3.08	-433.27	1149.09	-271.47		48.23

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904		SLE Q	5	19	38.00	-433.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1149.09	0.38	0.06
4	1.903		SLE F	5	19	38.00	-456.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1211.46	0.35	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	127.94	2.50	7185.75	7873.13	7185.75	56.166
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	144.90	2.50	7185.75	7873.13	7185.75	49.590

Travata n. 7033

Nodi: 768 -1984 -2071 781 -2279 716

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.44	3.08	3.08	3.08	3.08	3.08	-583.91	-1506.47	2.580

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>t</sub> sup	σ <sub>t</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.44	3.08	3.08	-429.08	1137.99	-268.85		47.77
1.904	SLE Q	5	35.44	3.08	3.08	-360.74	956.73	-226.03		40.16

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904		SLE Q	5	19	35.44	-360.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	956.73	0.28	0.04
4	1.903		SLE F	5	19	35.44	-380.26	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1008.52	0.29	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	



Relazione di calcolo

1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	513.82	2.50	7185.75	7873.13	7185.75	13.985
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	530.78	2.50	7185.75	7873.13	7185.75	13.538

Travata n. 7035

Nodi: 793 -2478 801 751

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	Afep S <cm>	Afep I <cm>	My <daNm>	MRdy <daNm>	Sic.
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-390.72	-2142.71	5.484

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
4.822	SLE R	3	332.00	3.08	3.08	3.08	-277.06	504.69	-135.35	17.81
4.824	SLE Q	3	332.00	3.08	3.08	3.08	-210.95	384.27	-103.05	13.56

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	4.824	SLE Q	3	18	332.00	-210.95	28.00	114.00	0.50	14.00	102.12	3.08	101.43	384.27	0.11	0.02	
4	4.823	SLE F	3	18	332.00	-229.78	28.00	114.00	0.50	14.00	102.12	3.08	101.43	418.58	0.12	0.02	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2743.64	2.50	7619.38	26714.30	7619.38	2.777
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	422.50	2.50	5079.58	10017.90	5079.58	12.023
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	451.28	2.50	5079.58	10017.90	5079.58	11.256

Travata n. 7036

Nodi: 769 -1985 -2072 782 -2280 717

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	Afep S <cm>	Afep I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	5	35.41	6.03	4.02	6.03	4.02	4.02	-8139.65	-9551.64	1.173

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	SLE R	5	35.41	6.03	4.02	6.03	-6013.69	2353.60	-654.60	59.96
1.904	SLE Q	5	35.41	6.03	4.02	6.03	-5473.80	2142.31	-595.83	54.58

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5	30	35.41	-5473.80	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2142.31	0.88	0.18	
4	1.903	SLE F	5	30	35.41	-5628.05	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2202.68	0.83	0.17	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4001.55	2.50	10241.80	20904.00	10241.80	2.559
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5023.88	2.50	10241.80	20904.00	10241.80	2.039

Travata n. 7040

Nodi: 770 -1986 -2073 783 -2281 718

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
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Relazione di calcolo

		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.90	1	SLU	5	35.38	6.03	4.02	6.03	4.02	-8112.02	-9551.64	1.177

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.90	2	SLE R	5	35.38	6.03	4.02	-5993.70	2345.78	-652.42	59.76
1.90	4	SLE Q	5	35.38	6.03	4.02	-5454.43	2134.73	-593.73	54.39

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	1.90	4	SLE Q	5	30	35.38	-5454.43	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2134.73	0.88	0.18
4	1.90	3	SLE F	5	30	35.38	-5608.51	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2195.03	0.83	0.17

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.38	1.38	ø6/18 2 br.	3.14	0.30	3927.32	2.50	10241.80	20904.00	2.608
1	SLU	1.38	1.90	0.52	ø6/18 2 br.	3.14	0.30	5031.76	2.50	10241.80	20904.00	2.035

Travata n. 7041

Nodi: 796 -2482 802 752

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-274.66	-2142.71	7.801

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
4.82	2	SLE R	3	332.00	3.08	3.08	-195.08	355.36	-95.30	12.54
4.82	4	SLE Q	3	332.00	3.08	3.08	-142.73	260.00	-69.72	9.17

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-142.73	28.00	114.00	0.50	14.00	102.12	3.08	101.43	260.00	0.08	0.01
4	4.82	3	SLE F	3	18	332.00	-157.68	28.00	114.00	0.50	14.00	102.12	3.08	101.43	287.23	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2299.64	2.50	7619.38	26714.30	3.313
1	SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	340.31	2.50	5079.58	10017.90	14.926
1	SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	369.09	2.50	5079.58	10017.90	13.762

Travata n. 7042

Nodi: 771 -1987 -2074 784 -2282 719

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
1.90	1	SLU	5	35.43	3.08	3.08	3.08	3.08	-566.71	-1506.47	2.658

Stato limite d'esercizio - Verifiche tensionali



Relazione di calcolo

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-417.25	1106.61	-261.44	46.45
1.90	4	SLE Q	5	35.43	3.08	3.08	-348.61	924.55	-218.43	38.81

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.90	4	SLE Q	5	19	35.43	-348.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	924.55	0.27	0.04
4	1.90	3	SLE F	5	19	35.43	-368.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	976.55	0.28	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	502.11	2.50	7185.75	7873.13	7185.75	14.311
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	519.08	2.50	7185.75	7873.13	7185.75	13.843

Travata n. 7070

Nodi: 800 656 -1795 645

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
3.32	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-1753.70	-6639.53	3.786

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
3.32	2	SLE R	3	52.50	3.08	3.08	-1162.41	662.47	-154.00	13.55
3.32	4	SLE Q	3	52.50	3.08	3.08	-656.97	374.42	-87.04	7.66

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	3.32	4	SLE Q	3	16	52.50	-656.97	28.00	94.00	0.50	14.00	119.66	3.08	140.00	374.42	0.11	0.02
4	3.32	3	SLE F	3	16	52.50	-801.00	28.00	94.00	0.50	14.00	119.66	3.08	140.00	456.50	0.13	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1575.20	2.50	7619.38	26714.30	7619.38	4.837
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2334.39	2.50	7619.38	26714.30	7619.38	3.264
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2634.48	2.50	15238.80	26714.30	15238.80	5.784

Travata n. 7084

Nodi: 802 658 -1798 652

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
3.32	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-1954.30	-6639.53	3.397

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cmq>	σ <sub>f</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
3.32	2	SLE R	3	52.50	3.08	3.08	-1314.07	748.91	-174.10	15.32
3.32	4	SLE Q	3	52.50	3.08	3.08	-781.46	445.37	-103.53	9.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	3.32	4	SLE Q	3	16	52.50	-781.46	28.00	94.00	0.50	14.00	119.66	3.08	140.00	445.37	0.13	0.03



Relazione di calcolo

4	3.32	3	SLE F	3	16	52.50	-933.16	28.00	94.00	0.50	14.00	119.66	3.08	140.00	531.82	0.15	0.03
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Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1445.56	2.50	7619.38	26714.30	7619.38	5.271
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2204.75	2.50	7619.38	26714.30	7619.38	3.456
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2845.59	2.50	15238.80	26714.30	15238.80	5.355

Travata n. 7088

Nodi: 777 -2166 -2167 -2168 -2169 -2170 -2171 -2172 778

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-142.36	-1506.47	10.582
1.801	SLU	5	20.00	3.08	3.08	3.08	3.08	3.08	78.40	1506.47	19.216
3.201	SLU	8	40.00	3.08	3.08	3.08	3.08	3.08	-106.18	-1506.47	14.188

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>ε</sub> sup <daN/cmq>	σ <sub>ε</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-102.09	270.76	-63.97	11.36
0.00	4	SLE Q	1	0.00	3.08	3.08	-90.74	240.65	-56.85	10.10
1.80	2	SLE R	5	20.00	3.08	3.08	54.70	-34.27	145.06	6.09
1.80	4	SLE Q	5	20.00	3.08	3.08	47.79	-29.95	126.76	5.32
3.20	2	SLE R	8	40.00	3.08	3.08	-75.44	200.07	-47.27	8.40
3.20	4	SLE Q	8	40.00	3.08	3.08	-55.41	146.96	-34.72	6.17

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE Q	1	19	0.00	-90.74	28.00	134.00	0.50	14.00	14.00	93.58	3.08	82.65	240.65	0.07	0.01
4	0.003	SLE F	1	19	0.00	-93.99	28.00	134.00	0.50	14.00	14.00	93.58	3.08	82.65	249.27	0.07	0.01
7	1.804	SLE Q	5	19	20.00	47.79	28.00	134.00	0.50	14.00	14.00	93.58	3.08	82.65	126.76	0.04	0.01
8	1.803	SLE F	5	19	20.00	49.72	28.00	134.00	0.50	14.00	14.00	93.58	3.08	82.65	131.85	0.04	0.01
11	3.204	SLE Q	8	19	40.00	-55.41	28.00	134.00	0.50	14.00	14.00	93.58	3.08	82.65	146.96	0.04	0.01
12	3.203	SLE F	8	19	40.00	-61.12	28.00	134.00	0.50	14.00	14.00	93.58	3.08	82.65	162.11	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	505.91	2.50	7185.75	7873.13	7185.75	14.204
1 SLU	0.14	3.06	2.91	ø6/ 8 2 br.	7.07	0.20	505.91	2.50	7185.75	7873.13	7185.75	14.204
1 SLU	3.06	3.20	0.14	ø6/ 8 2 br.	7.07	0.20	259.49	2.50	7185.75	7873.13	7185.75	27.692

Travata n. 7130

Nodi: 761 -1855 -1856 -1857 -1858 -1859 -1860 -1861 -1862 762

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	30.14	1506.47	49.989
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	126.76	1506.47	11.884
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	26.90	1506.47	55.996

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>E</sub> sup <daN/cm>	σ <sub>E</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
0.002	SLE	R	1	0.00	3.08	3.08	22.26	-13.95	59.03	2.48
0.004	SLE	Q	1	0.00	3.08	3.08	19.46	-12.19	51.60	2.17
1.442	SLE	R	5	0.00	3.08	3.08	92.33	-57.85	244.88	10.28
1.444	SLE	Q	5	0.00	3.08	3.08	76.65	-48.02	203.28	8.53
3.252	SLE	R	9	36.11	3.08	3.08	19.93	-12.49	52.87	2.22



Relazione di calcolo

3.25	4	SLE Q	9	36.11	3.08	3.08	17.37	-10.88	46.06	1.93
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Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	19.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.60	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	20.26	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.72	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	76.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	203.28	0.06	0.01
8	1.44	3	SLE F	5	19	0.00	81.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	215.16	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	17.37	28.00	134.00	0.50	14.00	93.58	3.08	82.65	46.06	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	18.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	48.00	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	182.02	2.50	7185.75	7873.13	7185.75	39.478
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	76.67	2.50	7185.75	7873.13	7185.75	93.722
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	197.31	2.50	7185.75	7873.13	7185.75	36.418

Travata n. 7131

Nodi: 779 -2173 -2174 -2175 -2176 -2177 -2178 -2179 780

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-111.06	-1506.47	13.565
1.19	1	SLU	4	0.00	3.08	3.08	3.08	3.08	71.85	1506.47	20.968
3.18	1	SLU	8	39.75	3.08	3.08	3.08	3.08	-142.25	-1506.47	10.591

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>t</sub> sup	σ <sub>t</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-79.11	209.80	-49.57	8.81
0.00	4	SLE Q	1	0.00	3.08	3.08	-58.60	155.42	-36.72	6.52
1.19	2	SLE R	4	0.00	3.08	3.08	49.86	-31.24	132.23	5.55
1.19	4	SLE Q	4	0.00	3.08	3.08	43.43	-27.21	115.19	4.84
3.18	2	SLE R	8	39.75	3.08	3.08	-102.09	270.77	-63.97	11.37
3.18	4	SLE Q	8	39.75	3.08	3.08	-90.98	241.30	-57.01	10.13

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-58.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.42	0.05	0.01
4	0.00	3	SLE F	1	19	0.00	-64.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	170.94	0.05	0.01
7	1.19	4	SLE Q	4	19	0.00	43.43	28.00	134.00	0.50	14.00	93.58	3.08	82.65	115.19	0.03	0.01
8	1.19	3	SLE F	4	19	0.00	45.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	119.80	0.03	0.01
11	3.18	4	SLE Q	8	19	39.75	-90.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	241.30	0.07	0.01
12	3.18	3	SLE F	8	19	39.75	-94.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	249.74	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	264.68	2.50	7185.75	7873.13	7185.75	27.149
1 SLU	0.14	3.04	2.89	ø6/ 8 2 br.	7.07	0.20	498.47	2.50	7185.75	7873.13	7185.75	14.416
1 SLU	3.04	3.18	0.14	ø6/ 8 2 br.	7.07	0.20	498.47	2.50	7185.75	7873.13	7185.75	14.416

Travata n. 7173

Nodi: 763 -1863 -1864 -1865 -1866 -1867 -1868 -1869 764

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-195.30	-1506.47	7.714
1.50	1	SLU	5	0.00	3.08	3.08	3.08	3.08	230.56	1506.47	6.534



Relazione di calcolo

3.00	1	SLU	8	37.50	3.08	3.08	3.08	3.08	-193.06	-1506.47	7.803
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Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_e$ sup	$\sigma_e$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-148.44	393.67	-93.01	16.52
0.00	4	SLE Q	1	0.00	3.08	3.08	-139.57	370.16	-87.45	15.54
1.50	2	SLE R	5	0.00	3.08	3.08	173.20	-108.52	459.34	19.28
1.50	4	SLE Q	5	0.00	3.08	3.08	157.91	-98.94	418.79	17.58
3.00	2	SLE R	8	37.50	3.08	3.08	-146.83	389.42	-92.00	16.35
3.00	4	SLE Q	8	37.50	3.08	3.08	-138.24	366.64	-86.62	15.39

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\varepsilon_{sm}$	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-139.57	28.00	134.00	0.50	14.00	93.58	3.08	82.65	370.16	0.11	0.02
4	0.00	3	SLE F	1	19	0.00	-142.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	376.87	0.11	0.02
7	1.50	4	SLE Q	5	19	0.00	157.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	418.79	0.12	0.02
8	1.50	3	SLE F	5	19	0.00	162.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	430.38	0.13	0.02
11	3.00	4	SLE Q	8	19	37.50	-138.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	366.64	0.11	0.02
12	3.00	3	SLE F	8	19	37.50	-140.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	373.15	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	888.72	2.50	7185.75	7873.13	7185.75	8.086
1 SLU	0.14	2.85	2.71	ø6/ 8 2 br.	7.07	0.20	590.24	2.50	7185.75	7873.13	7185.75	12.174
1 SLU	2.85	3.00	0.14	ø6/ 8 2 br.	7.07	0.20	889.96	2.50	7185.75	7873.13	7185.75	8.074

Travata n. 7174

Nodi: 781 -2180 -2181 -2182 -2183 -2184 -2185 -2186 -2187 782

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-145.82	-1506.47	10.331
1.81	1	SLU	5	36.11	3.08	3.08	3.08	3.08	91.74	1506.47	16.421
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-109.14	-1506.47	13.803

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_e$ sup	$\sigma_e$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-104.52	277.21	-65.49	11.64
0.00	4	SLE Q	1	0.00	3.08	3.08	-92.68	245.79	-58.07	10.32
1.81	2	SLE R	5	36.11	3.08	3.08	63.96	-40.08	169.63	7.12
1.81	4	SLE Q	5	36.11	3.08	3.08	55.39	-34.71	146.91	6.17
3.25	2	SLE R	9	36.11	3.08	3.08	-77.55	205.66	-48.59	8.63
3.25	4	SLE Q	9	36.11	3.08	3.08	-57.23	151.77	-35.86	6.37

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\varepsilon_{sm}$	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-92.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	245.79	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-96.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	254.78	0.07	0.01
7	1.81	4	SLE Q	5	19	36.11	55.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	146.91	0.04	0.01
8	1.81	3	SLE F	5	19	36.11	57.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	153.41	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	-57.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	151.77	0.04	0.01
12	3.25	3	SLE F	9	19	36.11	-63.02	28.00	134.00	0.50	14.00	93.58	3.08	82.65	167.15	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	594.07	2.50	7185.75	7873.13	7185.75	12.096
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	594.07	2.50	7185.75	7873.13	7185.75	12.096
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	272.42	2.50	7185.75	7873.13	7185.75	26.378

Travata n. 7216

Nodi: 765 -1870 -1871 -1872 -1873 -1874 -1875 -1876 -1877 766



Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	26.13	1506.47	57.657
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	127.71	1506.47	11.796
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	31.38	1506.47	48.010

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	19.37	-12.13	51.36	2.16
0.00	4	SLE Q	1	0.00	3.08	3.08	16.88	-10.57	44.76	1.88
1.62	2	SLE R	5	18.06	3.08	3.08	93.07	-58.31	246.83	10.36
1.62	4	SLE Q	5	18.06	3.08	3.08	77.38	-48.48	205.21	8.61
3.25	2	SLE R	9	36.11	3.08	3.08	23.18	-14.53	61.49	2.58
3.25	4	SLE Q	9	36.11	3.08	3.08	20.30	-12.72	53.83	2.26

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	16.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	44.76	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	17.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	46.65	0.01	0.00
7	1.62	4	SLE Q	5	19	18.06	77.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	205.21	0.06	0.01
8	1.62	3	SLE F	5	19	18.06	81.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	217.10	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	20.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.83	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	21.12	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.02	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm²/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	195.93	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	75.29	2.50	7185.75	7873.13	7185.75
1	SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	183.53	2.50	7185.75	7873.13	7185.75

Travata n. 7217

Nodi: 783 -2188 -2189 -2190 -2191 -2192 -2193 -2194 -2195 784

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-100.10	-1506.47	15.050
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	92.49	1506.47	16.287
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-135.19	-1506.47	11.143

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-71.19	188.82	-44.61	7.93
0.00	4	SLE Q	1	0.00	3.08	3.08	-51.80	137.37	-32.45	5.77
1.44	2	SLE R	5	0.00	3.08	3.08	64.47	-40.39	170.97	7.18
1.44	4	SLE Q	5	0.00	3.08	3.08	55.71	-34.91	147.76	6.20
3.23	2	SLE R	9	35.89	3.08	3.08	-97.05	257.39	-60.81	10.80
3.23	4	SLE Q	9	35.89	3.08	3.08	-87.21	231.30	-54.65	9.71

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-51.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	137.37	0.04	0.01
4	0.00	3	SLE F	1	19	0.00	-57.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	152.06	0.04	0.01
7	1.44	4	SLE Q	5	19	0.00	55.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	147.76	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	58.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	154.39	0.04	0.01
11	3.23	4	SLE Q	9	19	35.89	-87.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	231.30	0.07	0.01
12	3.23	3	SLE F	9	19	35.89	-90.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	238.82	0.07	0.01



Stato limite ultimo - Verifiche a taglio

CC	X0<m>	X1<m>	Lung.<m>	Staff.	AfE St.<cmq/m>	bw<m>	Vsdu<daN>	ctgθ	VRsd<daN>	VRcd<daN>	Vrdu<daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	281.08	2.50	7185.75	7873.13	7185.75	25.565
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	583.73	2.50	7185.75	7873.13	7185.75	12.310
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	583.73	2.50	7185.75	7873.13	7185.75	12.310

Travata n. 7259

Nodi: 767 -1878 -1879 -1880 -1881 -1882 -1883 -1884 -1885 768

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B<cm>	H<cm>	Cf sup<cm>	Cf inf<cm>	Fcm<daN/cm>	Fctm<daN/cm>	Fcd<daN/cm>	Fcd (Tag)<daN/cm>	Fctd<daN/cm>	Fym<daN/cm>	Fyd<daN/cm>	Fyd (Tag)<daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg<m>	CC	TCC	El	X<cm>	AfE S<cm>	AfE I<cm>	AfEP S<cm>	AfEP I<cm>	My<daNm>	MRdy<daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	30.01	1506.47	50.196
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	128.17	1506.47	11.754
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	27.72	1506.47	54.344

Stato limite d'esercizio - Verifiche tensionali

Xg<m>	CC	TCC	El	X<cm>	AfE S<cm>	AfE I<cm>	My<daNm>	σ <sub>e</sub> sup<daN/cm>	σ <sub>e</sub> inf<daN/cm>	σ <sub>c</sub> <daN/cm>
0.002	SLE R	1	0.00	3.08	3.08	22.17		-13.89	58.81	2.47
0.004	SLE Q	1	0.00	3.08	3.08	19.40		-12.16	51.45	2.16
1.442	SLE R	5	0.00	3.08	3.08	93.40		-58.52	247.72	10.40
1.444	SLE Q	5	0.00	3.08	3.08	77.63		-48.64	205.89	8.64
3.252	SLE R	9	36.11	3.08	3.08	20.54		-12.87	54.48	2.29
3.254	SLE Q	9	36.11	3.08	3.08	17.90		-11.22	47.48	1.99

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	19.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.45	0.01	0.00
4	0.003	SLE	F	1	19	0.00	20.19	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.55	0.02	0.00
7	1.444	SLE	Q	5	19	0.00	77.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	205.89	0.06	0.01
8	1.443	SLE	F	5	19	0.00	82.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	217.83	0.06	0.01
11	3.254	SLE	Q	9	19	36.11	17.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	47.48	0.01	0.00
12	3.253	SLE	F	9	19	36.11	18.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	49.48	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0<m>	X1<m>	Lung.<m>	Staff.	AfE St.<cmq/m>	bw<m>	Vsdu<daN>	ctgθ	VRsd<daN>	VRcd<daN>	Vrdu<daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	181.97	2.50	7185.75	7873.13	7185.75	39.489
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	77.10	2.50	7185.75	7873.13	7185.75	93.203
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	197.74	2.50	7185.75	7873.13	7185.75	36.340

Travata n. 7302

Nodi: 769 -1886 -1887 -1888 -1889 -1890 -1891 -1892 770

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B<cm>	H<cm>	Cf sup<cm>	Cf inf<cm>	Fcm<daN/cm>	Fctm<daN/cm>	Fcd<daN/cm>	Fcd (Tag)<daN/cm>	Fctd<daN/cm>	Fym<daN/cm>	Fyd<daN/cm>	Fyd (Tag)<daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg<m>	CC	TCC	El	X<cm>	AfE S<cm>	AfE I<cm>	AfEP S<cm>	AfEP I<cm>	My<daNm>	MRdy<daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-188.37	-1506.47	7.997
1.451	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	219.38	1506.47	6.867
2.901	SLU	8	36.25	3.08	3.08	3.08	3.08	3.08	-184.57	-1506.47	8.162

Stato limite d'esercizio - Verifiche tensionali

Xg<m>	CC	TCC	El	X<cm>	AfE S<cm>	AfE I<cm>	My<daNm>	σ <sub>e</sub> sup<daN/cm>	σ <sub>e</sub> inf<daN/cm>	σ <sub>c</sub> <daN/cm>
0.002	SLE R	1	0.00	3.08	3.08	-143.18		379.73	-89.71	15.94
0.004	SLE Q	1	0.00	3.08	3.08	-134.73		357.32	-84.42	15.00
1.452	SLE R	5	0.00	3.08	3.08	165.00		-103.38	437.60	18.37
1.454	SLE Q	5	0.00	3.08	3.08	150.70		-94.42	399.68	16.78
2.902	SLE R	8	36.25	3.08	3.08	-140.37		372.27	-87.95	15.63
2.904	SLE Q	8	36.25	3.08	3.08	-132.27		350.80	-82.88	14.72



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-134.73	28.00	134.00	0.50	14.00	93.58	3.08	82.65	357.32	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-137.14	28.00	134.00	0.50	14.00	93.58	3.08	82.65	363.72	0.11	0.02
7	1.45	4	SLE Q	5	19	0.00	150.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	399.68	0.12	0.02
8	1.45	3	SLE F	5	19	0.00	154.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	410.51	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-132.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	350.80	0.10	0.02
12	2.90	3	SLE F	8	19	36.25	-134.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	356.93	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	879.58	2.50	7185.75	7873.13	7185.75	8.170
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	579.86	2.50	7185.75	7873.13	7185.75	12.392
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	879.52	2.50	7185.75	7873.13	7185.75	8.170

Travata n. 7345

Nodi: 771 -1893 -1894 -1895 -1896 -1897 -1898 -1899 -1900 772

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	30.45	1506.47	49.475
1.61	1	SLU	5	17.94	3.08	3.08	3.08	3.08	133.83	1506.47	11.256
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	30.74	1506.47	49.011

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	22.41	-14.04	59.45	2.50
0.00	4	SLE Q	1	0.00	3.08	3.08	19.47	-12.20	51.64	2.17
1.61	2	SLE R	5	17.94	3.08	3.08	97.31	-60.97	258.09	10.83
1.61	4	SLE Q	5	17.94	3.08	3.08	81.10	-50.81	215.08	9.03
3.23	2	SLE R	9	35.89	3.08	3.08	22.70	-14.22	60.19	2.53
3.23	4	SLE Q	9	35.89	3.08	3.08	19.91	-12.48	52.81	2.22

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	19.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.64	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	20.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.86	0.02	0.00
7	1.61	4	SLE Q	5	19	17.94	81.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	215.08	0.06	0.01
8	1.61	3	SLE F	5	19	17.94	85.73	28.00	134.00	0.50	14.00	93.58	3.08	82.65	227.36	0.07	0.01
11	3.23	4	SLE Q	9	19	35.89	19.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.81	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	20.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.93	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	196.44	2.50	7185.75	7873.13	7185.75	36.579
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	75.80	2.50	7185.75	7873.13	7185.75	94.793
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	183.97	2.50	7185.75	7873.13	7185.75	39.059

Travata n. 8024

Nodi: 799 855 -2558 844

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-1139.83	-13043.50	11.443

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
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Relazione di calcolo

<m>			<cm>	<cmq>	<cmq>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>	
3.32	2	SLE R	3	52.50	6.16	3.08	-732.79	214.34	-83.19	6.74
3.32	4	SLE Q	3	52.50	6.16	3.08	-306.52	89.66	-34.80	2.82

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk	
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>	
	3	3.32	4	SLE Q	3	16	52.50	-306.52	28.00	31.33	0.50	14.00	87.83	6.16	140.00	89.66	0.03	0.00
	5	3.32	3	SLE F	3	16	52.50	-428.15	28.00	31.33	0.50	14.00	87.83	6.16	140.00	125.23	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.	
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>		
1	SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1651.98	2.50	7619.38	26714.30	7619.38	4.612
1	SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1651.98	2.50	7619.38	26714.30	7619.38	4.612
1	SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	1893.97	2.50	15238.80	26714.30	15238.80	8.046

Travata n. 8035

Nodi: 801 857 -2561 851

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>		<cm>		<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-1454.78	-13043.50	8.966

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>		<cm>		<cm>	<cmq>	<cmq>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
3.32	2	SLE R	3	52.50	6.16	3.08	-967.89	283.10	-109.88	8.91
3.32	4	SLE Q	3	52.50	6.16	3.08	-504.73	147.63	-57.30	4.64

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk	
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>	
	3	3.32	4	SLE Q	3	16	52.50	-504.73	28.00	31.33	0.50	14.00	87.83	6.16	140.00	147.63	0.04	0.01
	4	3.32	3	SLE F	3	16	52.50	-636.81	28.00	31.33	0.50	14.00	87.83	6.16	140.00	186.26	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.	
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>		
1	SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1456.06	2.50	7619.38	26714.30	7619.38	5.233
1	SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1456.06	2.50	7619.38	26714.30	7619.38	5.233
1	SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2228.31	2.50	15238.80	26714.30	15238.80	6.839

Travata n. 9021

Nodi: 961 -2695 -2766 -2855 -2978 908

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>		<cm>		<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	0.00	3.08	3.08	3.08	3.08	-694.06	-1506.47	2.171

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>		<cm>		<cm>	<cmq>	<cmq>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.90	2	SLE R	5	0.00	3.08	3.08	-513.16	1360.97	-321.53	57.12
1.90	4	SLE Q	5	0.00	3.08	3.08	-431.16	1143.49	-270.15	48.00

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk	
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>	
	3	1.90	4	SLE Q	5	19	0.00	-431.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1143.49	0.37	0.06
	4	1.90	3	SLE F	5	19	0.00	-454.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1205.61	0.35	0.06



Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	127.88	2.50	7185.75	7873.13	7185.75	56.193
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	144.84	2.50	7185.75	7873.13	7185.75	49.611

Travata n. 9022

Nodi: 962 -2745 -2832 977 909

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	4	70.00	3.08	3.08	3.08	3.08	3.08	-579.39	-1506.47	2.600

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	SLE R	4	70.00	3.08	3.08	-425.65	1128.88	-266.70		47.38
1.904	SLE Q	4	70.00	3.08	3.08	-358.75	951.46	-224.78		39.94

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	4	19	70.00	-358.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	951.46	0.28	0.04	
4	1.903	SLE F	4	19	70.00	-377.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1002.14	0.29	0.05	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	551.05	2.50	7185.75	7873.13	7185.75	13.040
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	568.01	2.50	7185.75	7873.13	7185.75	12.651

Travata n. 9023

Nodi: 963 -2746 -2833 978 -3041 910

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfE S	AfE I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.06	6.03	4.02	6.03	4.02	-8306.19	-9551.64	1.150	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>f</sub> sup <daN/cm>	σ <sub>f</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
1.902	SLE R	5	35.06	6.03	4.02	-6137.42	2402.03	-668.07		61.20
1.904	SLE Q	5	35.06	6.03	4.02	-5584.41	2185.60	-607.87		55.68

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.904	SLE Q	5	30	35.06	-5584.41	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2185.60	0.90	0.19
4	1.903	SLE F	5	30	35.06	-5742.42	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2247.44	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4038.66	2.50	10241.80	20904.00	10241.80	2.536
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5211.07	2.50	10241.80	20904.00	10241.80	1.965

Travata n. 9024

Nodi: 989 -3238 999 944



Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-309.77	-2142.71	6.917

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>r</sub> sup	σ <sub>r</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-217.59	396.36	-106.30	13.99
4.82	4	SLE Q	3	332.00	3.08	3.08	-159.44	290.44	-77.89	10.25

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-159.44	28.00	114.00	0.50	14.00	102.12	3.08	101.43	290.44	0.08	0.01
4	4.82	3	SLE F	3	18	332.00	-176.00	28.00	114.00	0.50	14.00	102.12	3.08	101.43	320.61	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	3027.48	2.50	7619.38	26714.30	7619.38	2.517
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	386.15	2.50	5079.58	10017.90	5079.58	13.154
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	414.93	2.50	5079.58	10017.90	5079.58	12.242

Travata n. 9027

Nodi: 992 -3242 1000 945

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-252.28	-2142.71	8.494

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>r</sub> sup	σ <sub>r</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-177.84	323.95	-86.88	11.43
4.82	4	SLE Q	3	332.00	3.08	3.08	-127.65	232.54	-62.36	8.21

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-127.65	28.00	114.00	0.50	14.00	102.12	3.08	101.43	232.54	0.07	0.01
4	4.82	3	SLE F	3	18	332.00	-141.98	28.00	114.00	0.50	14.00	102.12	3.08	101.43	258.63	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.	
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>		
1	SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2676.25	2.50	7619.38	26714.30	7619.38	2.847
1	SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	336.67	2.50	5079.58	10017.90	5079.58	15.088
1	SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	365.45	2.50	5079.58	10017.90	5079.58	13.899

Travata n. 9028

Nodi: 964 -2747 -2834 979 -3042 911

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione



Relazione di calcolo

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	1	SLU	5	35.09	6.03	4.02	6.03	4.02	-8293.92	-9551.64	1.152

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	2	SLE R	5	35.09	6.03	4.02	-6128.31	2398.47	-667.08	61.11
1.904	4	SLE Q	5	35.09	6.03	4.02	-5576.31	2182.43	-606.99	55.60

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	30	35.09	-5576.31	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2182.43	0.90	0.19	
4	1.903	SLE F	5	30	35.09	-5734.04	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2244.16	0.85	0.18	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.41	1.41	ø6/18 2 br.	3.14	0.30	4032.93	2.50	10241.80	20904.00	10241.80	2.540
1 SLU	1.41	1.90	0.48	ø6/18 2 br.	3.14	0.30	5188.20	2.50	10241.80	20904.00	10241.80	1.974

Travata n. 9029

Nodi: 965 -2748 -2835 980 912

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	1	SLU	4	70.00	3.08	3.08	3.08	3.08	-575.16	-1506.47	2.619

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	2	SLE R	4	70.00	3.08	3.08	-422.30	1120.00	-264.60	47.01
1.904	4	SLE Q	4	70.00	3.08	3.08	-355.64	943.20	-222.83	39.59

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c off</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	4	19	70.00	-355.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65		943.20	0.28	0.04
4	1.903	SLE F	4	19	70.00	-374.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65		993.72	0.29	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	546.31	2.50	7185.75	7873.13	7185.75	13.153
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	563.27	2.50	7185.75	7873.13	7185.75	12.757

Travata n. 9032

Nodi: 967 -2703 -2778 -2847 -2964 915

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	1	SLU	5	38.00	3.08	3.08	3.08	3.08	-689.75	-1506.47	2.184

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	2	SLE R	5	38.00	3.08	3.08	-510.05	1352.74	-319.58	56.78
1.904	4	SLE Q	5	38.00	3.08	3.08	-428.63	1136.78	-268.56	47.71



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	38.00	-428.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1136.78	0.37	0.06
4	1.90	3	SLE F	5	19	38.00	-451.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1198.48	0.35	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	106.20	2.50	7185.75	7873.13	7185.75	67.665
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	123.16	2.50	7185.75	7873.13	7185.75	58.344

Travata n. 9033

Nodi: 968 -2749 -2836 981 -3044 916

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-585.90	-1506.47	2.571

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.44	3.08	3.08	-430.53	1141.82	-269.75	47.93
1.90	4	SLE Q	5	35.44	3.08	3.08	-361.81	959.56	-226.70	40.28

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.44	-361.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	959.56	0.28	0.05
4	1.90	3	SLE F	5	19	35.44	-381.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1011.63	0.29	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	518.43	2.50	7185.75	7873.13	7185.75	13.861
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	535.40	2.50	7185.75	7873.13	7185.75	13.421

Travata n. 9035

Nodi: 993 -3243 1001 951

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-346.90	-2142.71	6.177

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-245.31	446.85	-119.84	15.77
4.82	4	SLE Q	3	332.00	3.08	3.08	-182.81	333.01	-89.31	11.75

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-182.81	28.00	114.00	0.50	14.00	102.12	3.08	101.43	333.01	0.10	0.02
4	4.82	3	SLE F	3	18	332.00	-200.61	28.00	114.00	0.50	14.00	102.12	3.08	101.43	365.43	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2850.16	2.50	7619.38	26714.30	7619.38	2.673



Relazione di calcolo

1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	400.65	2.50	5079.58	10017.90	5079.58	12.678
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	429.43	2.50	5079.58	10017.90	5079.58	11.829

Travata n. 9036

Nodi: 969 -2750 -2837 982 -3045 917

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-8154.38	-9551.64	1.171

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.41	6.03	4.02	-6024.56	2357.86	-655.78	60.07
1.90	4	SLE Q	5	35.41	6.03	4.02	-5483.69	2146.18	-596.91	54.68

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.41	-5483.69	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2146.18	0.88	0.19
4	1.90	3	SLE F	5	30	35.41	-5638.23	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2206.66	0.83	0.17

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4006.34	2.50	10241.80	20904.00	10241.80	2.556
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5039.95	2.50	10241.80	20904.00	10241.80	2.032

Travata n. 9040

Nodi: 970 -2751 -2838 983 -3046 918

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.38	6.03	4.02	6.03	4.02	-8119.43	-9551.64	1.176

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.38	6.03	4.02	-5999.45	2348.03	-653.05	59.82
1.90	4	SLE Q	5	35.38	6.03	4.02	-5460.57	2137.13	-594.39	54.45

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.38	-5460.57	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2137.13	0.88	0.18
4	1.90	3	SLE F	5	30	35.38	-5614.54	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2197.39	0.83	0.17

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.38	1.38	ø6/18 2 br.	3.14	0.30	3937.56	2.50	10241.80	20904.00	10241.80	2.601
1 SLU	1.38	1.90	0.52	ø6/18 2 br.	3.14	0.30	5048.71	2.50	10241.80	20904.00	10241.80	2.029

Travata n. 9041

Nodi: 996 -3247 1002 952

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94



Relazione di calcolo

18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
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Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU		3	332.00	3.08	3.08	3.08	3.08	-271.39	-2142.71	7.895

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R		3	332.00	3.08	3.08	-192.43	350.53	-94.01	12.37
4.824	SLE Q		3	332.00	3.08	3.08	-139.90	254.85	-68.35	8.99

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q		3	18	332.00	-139.90	28.00	114.00	0.50	14.00	102.12	3.08	101.43	254.85	0.07	0.01
4	4.823	SLE F		3	18	332.00	-154.89	28.00	114.00	0.50	14.00	102.12	3.08	101.43	282.15	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2565.99	2.50	7619.38	26714.30	7619.38	2.969
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	342.92	2.50	5079.58	10017.90	5079.58	14.813
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	371.70	2.50	5079.58	10017.90	5079.58	13.666

Travata n. 9042

Nodi: 971 -2752 -2839 984 -3047 919

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	35.43	3.08	3.08	3.08	3.08	-569.78	-1506.47	2.644

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.43	3.08	3.08	-419.45	1112.43	-262.81	46.69
1.904	SLE Q		5	35.43	3.08	3.08	-350.30	929.04	-219.49	38.99

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	19	35.43	-350.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	929.04	0.27	0.04
4	1.903	SLE F		5	19	35.43	-370.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	981.42	0.29	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	512.11	2.50	7185.75	7873.13	7185.75	14.032
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	529.07	2.50	7185.75	7873.13	7185.75	13.582

Travata n. 9070

Nodi: 1000 856 -2560 845

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
	<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU		3	52.50	3.08	3.08	3.08	3.08	-1289.26	-6639.53	5.150

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>



Relazione di calcolo

3.32	2	SLE R	3	52.50	3.08	3.08	-823.20	469.15	-109.06	9.60
3.32	4	SLE Q	3	52.50	3.08	3.08	-357.11	203.52	-47.31	4.16

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-357.11	28.00	94.00	0.50	14.00	119.66	3.08	140.00	203.52	0.06	0.01
5	3.32	3	SLE F	3	16	52.50	-489.82	28.00	94.00	0.50	14.00	119.66	3.08	140.00	279.16	0.08	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.	
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>		
1	SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1805.23	2.50	7619.38	26714.30	7619.38	4.221
1	SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2564.42	2.50	7619.38	26714.30	7619.38	2.971
1	SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2164.24	2.50	15238.80	26714.30	15238.80	7.041

Travata n. 9084

Nodi: 1002 858 -2563 852

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.32	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-1543.42	-6639.53	4.302

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.32	2	SLE R	3	52.50	3.08	3.08	-1015.80	578.92	-134.58	11.84
3.32	4	SLE Q	3	52.50	3.08	3.08	-517.42	294.89	-68.55	6.03

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-517.42	28.00	94.00	0.50	14.00	119.66	3.08	140.00	294.89	0.09	0.02
4	3.32	3	SLE F	3	16	52.50	-659.28	28.00	94.00	0.50	14.00	119.66	3.08	140.00	375.74	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1647.87	2.50	7619.38	26714.30	7619.38	4.624
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2407.06	2.50	7619.38	26714.30	7619.38	3.165
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2430.64	2.50	15238.80	26714.30	15238.80	6.269

Travata n. 9088

Nodi: 977 -2931 -2932 -2933 -2934 -2935 -2936 -2937 978

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-140.59	-1506.47	10.715
1.80	1	SLU	5	20.00	3.08	3.08	3.08	3.08	79.57	1506.47	18.933
3.20	1	SLU	8	40.00	3.08	3.08	3.08	3.08	-104.05	-1506.47	14.478

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-100.97	267.78	-63.26	11.24
0.00	4	SLE Q	1	0.00	3.08	3.08	-90.78	240.77	-56.88	10.11
1.80	2	SLE R	5	20.00	3.08	3.08	55.62	-34.85	147.52	6.19
1.80	4	SLE Q	5	20.00	3.08	3.08	48.90	-30.64	129.69	5.44
3.20	2	SLE R	8	40.00	3.08	3.08	-73.73	195.55	-46.20	8.21
3.20	4	SLE Q	8	40.00	3.08	3.08	-53.04	140.66	-33.23	5.90



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-90.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	240.77	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-93.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	248.51	0.07	0.01
7	1.80	4	SLE Q	5	19	20.00	48.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	129.69	0.04	0.01
8	1.80	3	SLE F	5	19	20.00	50.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	134.66	0.04	0.01
11	3.20	4	SLE Q	8	19	40.00	-53.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.66	0.04	0.01
12	3.20	3	SLE F	8	19	40.00	-58.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	156.31	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	511.48	2.50	7185.75	7873.13	7185.75	14.049
1 SLU	0.14	3.06	2.91	ø6/ 8 2 br.	7.07	0.20	511.48	2.50	7185.75	7873.13	7185.75	14.049
1 SLU	3.06	3.20	0.14	ø6/ 8 2 br.	7.07	0.20	258.64	2.50	7185.75	7873.13	7185.75	27.783

Travata n. 9130

Nodi: 961 -2620 -2621 -2622 -2623 -2624 -2625 -2626 -2627 962

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE	S AfE	I AfE	P S AfE	P I AfE	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	30.10	1506.47	50.048
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	127.72	1506.47	11.795
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	27.39	1506.47	54.999

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE	S AfE	I AfE	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE	R	1	0.00	3.08	3.08	22.22	-13.92	58.93	2.47
0.00	4	SLE	Q	1	0.00	3.08	3.08	19.43	-12.18	51.54	2.16
1.44	2	SLE	R	5	0.00	3.08	3.08	92.99	-58.26	246.61	10.35
1.44	4	SLE	Q	5	0.00	3.08	3.08	77.11	-48.31	204.51	8.58
3.25	2	SLE	R	9	36.11	3.08	3.08	20.28	-12.70	53.78	2.26
3.25	4	SLE	Q	9	36.11	3.08	3.08	17.60	-11.03	46.68	1.96

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	19.43	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.54	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	20.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.65	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	77.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	204.51	0.06	0.01
8	1.44	3	SLE F	5	19	0.00	81.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	216.53	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	17.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	46.68	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	18.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	48.71	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	181.77	2.50	7185.75	7873.13	7185.75	39.533
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	77.32	2.50	7185.75	7873.13	7185.75	92.936
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	197.96	2.50	7185.75	7873.13	7185.75	36.299

Travata n. 9131

Nodi: 979 -2938 -2939 -2940 -2941 -2942 -2943 -2944 980

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE	S AfE	I AfE	P S AfE	P I AfE	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-109.14	-1506.47	13.803
1.19	1	SLU	4	0.00	3.08	3.08	3.08	3.08	3.08	72.90	1506.47	20.665
3.18	1	SLU	8	39.75	3.08	3.08	3.08	3.08	3.08	-141.40	-1506.47	10.654



Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	$\sigma_e$ sup <daN/cmq>	$\sigma_e$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	-77.61	205.82	-48.63	8.64
0.004	SLE	Q	1	0.00	3.08	3.08	-56.47	149.77	-35.38	6.29
1.192	SLE	R	4	0.00	3.08	3.08	50.66	-31.74	134.37	5.64
1.194	SLE	Q	4	0.00	3.08	3.08	44.39	-27.81	117.73	4.94
3.182	SLE	R	8	39.75	3.08	3.08	-101.64	269.57	-63.69	11.31
3.184	SLE	Q	8	39.75	3.08	3.08	-91.64	243.03	-57.42	10.20

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-56.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	149.77	0.04	0.01
4	0.003	SLE	F	1	19	0.00	-62.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	165.75	0.05	0.01
7	1.194	SLE	Q	4	19	0.00	44.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	117.73	0.03	0.01
8	1.193	SLE	F	4	19	0.00	46.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	122.20	0.04	0.01
11	3.184	SLE	Q	8	19	39.75	-91.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	243.03	0.07	0.01
12	3.183	SLE	F	8	19	39.75	-94.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	250.64	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	263.27	2.50	7185.75	7873.13	7185.75	27.295
1 SLU	0.14	3.04	2.89	ø6/ 8 2 br.	7.07	0.20	503.59	2.50	7185.75	7873.13	7185.75	14.269
1 SLU	3.04	3.18	0.14	ø6/ 8 2 br.	7.07	0.20	503.59	2.50	7185.75	7873.13	7185.75	14.269

Travata n. 9173

Nodi: 963 -2628 -2629 -2630 -2631 -2632 -2633 -2634 964

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-195.08	-1506.47	7.722
1.501	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	231.02	1506.47	6.521
3.001	SLU	8	37.50	3.08	3.08	3.08	3.08	3.08	-192.68	-1506.47	7.819

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	$\sigma_e$ sup <daN/cmq>	$\sigma_e$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	-148.30	393.31	-92.92	16.51
0.004	SLE	Q	1	0.00	3.08	3.08	-139.37	369.63	-87.33	15.51
1.502	SLE	R	5	0.00	3.08	3.08	173.54	-108.73	460.25	19.32
1.504	SLE	Q	5	0.00	3.08	3.08	158.36	-99.22	419.99	17.63
3.002	SLE	R	8	37.50	3.08	3.08	-146.53	388.62	-91.81	16.31
3.004	SLE	Q	8	37.50	3.08	3.08	-137.87	365.66	-86.39	15.35

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-139.37	28.00	134.00	0.50	14.00	93.58	3.08	82.65	369.63	0.11	0.02
4	0.003	SLE	F	1	19	0.00	-141.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	376.39	0.11	0.02
7	1.504	SLE	Q	5	19	0.00	158.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	419.99	0.12	0.02
8	1.503	SLE	F	5	19	0.00	162.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	431.50	0.13	0.02
11	3.004	SLE	Q	8	19	37.50	-137.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	365.66	0.11	0.02
12	3.003	SLE	F	8	19	37.50	-140.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	372.22	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	889.14	2.50	7185.75	7873.13	7185.75	8.082
1 SLU	0.14	2.85	2.71	ø6/ 8 2 br.	7.07	0.20	589.98	2.50	7185.75	7873.13	7185.75	12.180
1 SLU	2.85	3.00	0.14	ø6/ 8 2 br.	7.07	0.20	889.70	2.50	7185.75	7873.13	7185.75	8.077

Travata n. 9174

Nodi: 981 -2945 -2946 -2947 -2948 -2949 -2950 -2951 -2952 982

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
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Relazione di calcolo

		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-142.24	-1506.47	10.591
1.81	1	SLU	5	36.11	3.08	3.08	3.08	3.08	92.37	1506.47	16.308
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-107.56	-1506.47	14.006

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-102.05	270.66	-63.94	11.36
0.00	4	SLE Q	1	0.00	3.08	3.08	-91.49	242.65	-57.33	10.19
1.81	2	SLE R	5	36.11	3.08	3.08	64.45	-40.38	170.93	7.17
1.81	4	SLE Q	5	36.11	3.08	3.08	55.88	-35.02	148.21	6.22
3.25	2	SLE R	9	36.11	3.08	3.08	-76.25	202.24	-47.78	8.49
3.25	4	SLE Q	9	36.11	3.08	3.08	-55.24	146.51	-34.61	6.15

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-91.49	28.00	134.00	0.50	14.00	93.58	3.08	82.65	242.65	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-94.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	250.68	0.07	0.01
7	1.81	4	SLE Q	5	19	36.11	55.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	148.21	0.04	0.01
8	1.81	3	SLE F	5	19	36.11	58.33	28.00	134.00	0.50	14.00	93.58	3.08	82.65	154.71	0.05	0.01
11	3.25	4	SLE Q	9	19	36.11	-55.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	146.51	0.04	0.01
12	3.25	3	SLE F	9	19	36.11	-61.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	162.41	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	601.42	2.50	7185.75	7873.13	7185.75	11.948
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	601.42	2.50	7185.75	7873.13	7185.75	11.948
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	271.97	2.50	7185.75	7873.13	7185.75	26.421

Travata n. 9216

Nodi: 965 -2635 -2636 -2637 -2638 -2639 -2640 -2641 -2642 966

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	26.49	1506.47	56.861
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	128.63	1506.47	11.712
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	31.43	1506.47	47.926

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>e</sub> sup	σ <sub>e</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	19.62	-12.29	52.02	2.18
0.00	4	SLE Q	1	0.00	3.08	3.08	17.02	-10.66	45.14	1.89
1.62	2	SLE R	5	18.06	3.08	3.08	93.71	-58.72	248.54	10.43
1.62	4	SLE Q	5	18.06	3.08	3.08	77.85	-48.78	206.46	8.67
3.25	2	SLE R	9	36.11	3.08	3.08	23.23	-14.56	61.61	2.59
3.25	4	SLE Q	9	36.11	3.08	3.08	20.36	-12.76	53.99	2.27

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	0.00	4	SLE Q	1	19	0.00	17.02	28.00	134.00	0.50	14.00	93.58	3.08	82.65	45.14	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	17.76	28.00	134.00	0.50	14.00	93.58	3.08	82.65	47.11	0.01	0.00
7	1.62	4	SLE Q	5	19	18.06	77.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	206.46	0.06	0.01
8	1.62	3	SLE F	5	19	18.06	82.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	218.48	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	20.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.99	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	21.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.17	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm>/m>	<m>	<daN>		<daN>	<daN>	<daN>	



Relazione di calcolo

1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	196.49	2.50	7185.75	7873.13	7185.75	36.571
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	75.85	2.50	7185.75	7873.13	7185.75	94.742
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	183.33	2.50	7185.75	7873.13	7185.75	39.196

Travata n. 9217

Nodi: 983 -2953 -2954 -2955 -2956 -2957 -2958 -2959 -2960 984

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.001	SLU	1	1	0.00	3.08	3.08	3.08	3.08	-101.23	-1506.47	14.882
1.441	SLU	5	1	0.00	3.08	3.08	3.08	3.08	93.21	1506.47	16.162
3.231	SLU	9	1	35.89	3.08	3.08	3.08	3.08	-123.92	-1506.47	12.156

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.002	SLE	R	1	0.00	3.08	3.08	-71.87	190.60	-45.03	8.00
0.004	SLE	Q	1	0.00	3.08	3.08	-51.63	136.94	-32.35	5.75
1.442	SLE	R	5	0.00	3.08	3.08	65.00	-40.72	172.38	7.24
1.444	SLE	Q	5	0.00	3.08	3.08	56.16	-35.19	148.95	6.25
3.232	SLE	R	9	35.89	3.08	3.08	-89.11	236.34	-55.83	9.92
3.234	SLE	Q	9	35.89	3.08	3.08	-81.63	216.49	-51.15	9.09

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.004	SLE	Q	1	19	0.00	-51.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	136.94	0.04	0.01
4	0.003	SLE	F	1	19	0.00	-57.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	152.26	0.04	0.01
7	1.444	SLE	Q	5	19	0.00	56.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	148.95	0.04	0.01
8	1.443	SLE	F	5	19	0.00	58.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.63	0.05	0.01
11	3.234	SLE	Q	9	19	35.89	-81.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	216.49	0.06	0.01
12	3.233	SLE	F	9	19	35.89	-83.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	222.26	0.06	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm²/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	274.76	2.50	7185.75	7873.13	7185.75	26.153
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	600.20	2.50	7185.75	7873.13	7185.75	11.972
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	600.20	2.50	7185.75	7873.13	7185.75	11.972

Travata n. 9259

Nodi: 967 -2643 -2644 -2645 -2646 -2647 -2648 -2649 -2650 968

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.001	SLU	1	1	0.00	3.08	3.08	3.08	3.08	29.81	1506.47	50.539
1.441	SLU	5	1	0.00	3.08	3.08	3.08	3.08	129.15	1506.47	11.665
3.251	SLU	9	1	36.11	3.08	3.08	3.08	3.08	28.41	1506.47	53.029

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.002	SLE	R	1	0.00	3.08	3.08	22.02	-13.80	58.41	2.45
0.004	SLE	Q	1	0.00	3.08	3.08	19.28	-12.08	51.12	2.15
1.442	SLE	R	5	0.00	3.08	3.08	94.09	-58.95	249.54	10.47
1.444	SLE	Q	5	0.00	3.08	3.08	78.13	-48.96	207.22	8.70
3.252	SLE	R	9	36.11	3.08	3.08	21.03	-13.18	55.78	2.34
3.254	SLE	Q	9	36.11	3.08	3.08	18.27	-11.45	48.46	2.03

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>



Relazione di calcolo

3	0.00	4	SLE Q	1	19	0.00	19.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.12	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	20.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.20	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	78.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	207.22	0.06	0.01
8	1.44	3	SLE F	5	19	0.00	82.69	28.00	134.00	0.50	14.00	93.58	3.08	82.65	219.30	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	18.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	48.46	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	19.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	50.55	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	181.59	2.50	7185.75	7873.13	7185.75	39.572
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	77.93	2.50	7185.75	7873.13	7185.75	92.202
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	198.57	2.50	7185.75	7873.13	7185.75	36.187

Travata n. 9302

Nodi: 969 -2651 -2652 -2653 -2654 -2655 -2656 -2657 970

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-188.67	-1506.47	7.985
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	219.63	1506.47	6.859
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-183.89	-1506.47	8.192

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cm<sup>q>	σ <sub>f</sub> inf <daN/cm<sup>q>	σ <sub>c</sub> <daN/cm<sup>q>
0.00	2	SLE R	1	0.00	3.08	3.08	-143.39	380.29	-89.84	15.96
0.00	4	SLE Q	1	0.00	3.08	3.08	-134.79	357.47	-84.45	15.00
1.45	2	SLE R	5	0.00	3.08	3.08	165.19	-103.50	438.11	18.39
1.45	4	SLE Q	5	0.00	3.08	3.08	151.01	-94.62	400.50	16.81
2.90	2	SLE R	8	36.25	3.08	3.08	-139.87	370.96	-87.64	15.57
2.90	4	SLE Q	8	36.25	3.08	3.08	-131.79	349.53	-82.58	14.67

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm<sup>q>	A <sub>c eff</sub> <cm<sup>q>	σ <sub>s</sub> <daN/cm<sup>q>	ε <sub>sm</sub>	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-134.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	357.47	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-137.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	363.99	0.11	0.02
7	1.45	4	SLE Q	5	19	0.00	151.01	28.00	134.00	0.50	14.00	93.58	3.08	82.65	400.50	0.12	0.02
8	1.45	3	SLE F	5	19	0.00	155.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	411.25	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-131.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	349.53	0.10	0.02
12	2.90	3	SLE F	8	19	36.25	-134.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	355.65	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	880.64	2.50	7185.75	7873.13	7185.75	8.160
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	580.92	2.50	7185.75	7873.13	7185.75	12.370
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	878.43	2.50	7185.75	7873.13	7185.75	8.180

Travata n. 9345

Nodi: 971 -2658 -2659 -2660 -2661 -2662 -2663 -2664 -2665 972

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	31.71	1506.47	47.513
1.61	1	SLU	5	17.94	3.08	3.08	3.08	3.08	134.16	1506.47	11.228
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	29.73	1506.47	50.663

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>f</sub> sup <daN/cm<sup>q>	σ <sub>f</sub> inf <daN/cm<sup>q>	σ <sub>c</sub> <daN/cm<sup>q>
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Relazione di calcolo

0.00	2	SLE R	1	0.00	3.08	3.08	23.31	-14.60	61.81	2.59
0.00	4	SLE Q	1	0.00	3.08	3.08	20.14	-12.62	53.42	2.24
1.61	2	SLE R	5	17.94	3.08	3.08	97.55	-61.12	258.71	10.86
1.61	4	SLE Q	5	17.94	3.08	3.08	81.22	-50.89	215.41	9.04
3.23	2	SLE R	9	35.89	3.08	3.08	21.98	-13.77	58.30	2.45
3.23	4	SLE Q	9	35.89	3.08	3.08	19.35	-12.12	51.32	2.15

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
<m>	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	20.14	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.42	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	21.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.81	0.02	0.00
7	1.61	4	SLE Q	5	19	17.94	81.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	215.41	0.06	0.01
8	1.61	3	SLE F	5	19	17.94	85.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	227.77	0.07	0.01
11	3.23	4	SLE Q	9	19	35.89	19.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.32	0.01	0.00
12	3.23	3	SLE F	9	19	35.89	20.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.32	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	198.23	2.50	7185.75	7873.13	7185.75	36.249
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	77.59	2.50	7185.75	7873.13	7185.75	92.611
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	182.76	2.50	7185.75	7873.13	7185.75	39.318

Travata n. 2024

Nodi: 255 -7110 -254 -7106 244

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.251	1	SLU	4	-6.25	3.08	1.57	3.08	1.57	-2387.00	-6638.54	2.781

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.252	2	SLE R	4	-6.25	3.08	1.57	-1719.97	986.62	-250.53	21.68
1.254	4	SLE Q	4	-6.25	3.08	1.57	-1324.67	759.87	-192.95	16.70

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.25	4	SLE Q	4	16	-6.25	-1324.67	28.00	94.00	0.50	14.00	119.66	3.08	140.00	759.87	0.22	0.05
4	1.25	3	SLE F	4	16	-6.25	-1437.62	28.00	94.00	0.50	14.00	119.66	3.08	140.00	824.66	0.24	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.04	1.25	1.21	ø6/16 2 br.	3.53	0.16	1151.65	2.50	15238.80	26714.30	15238.80	13.232

Travata n. 2035

Nodi: 257 -7086 -257 -7094 251

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.251	1	SLU	4	-6.25	3.08	1.57	3.08	1.57	-2213.71	-6638.54	2.999

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.252	2	SLE R	4	-6.25	3.08	1.57	-1603.14	919.60	-233.51	20.21
1.254	4	SLE Q	4	-6.25	3.08	1.57	-1269.62	728.29	-184.93	16.00



Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	1.25	4	SLE Q	4	16	-6.25	-1269.62	28.00	94.00	0.50	14.00	119.66	3.08	140.00	728.29	0.21	0.04
4	1.25	3	SLE F	4	16	-6.25	-1364.89	28.00	94.00	0.50	14.00	119.66	3.08	140.00	782.94	0.23	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.04	1.25	1.21	ø6/16 2 br.	3.53	0.16	1074.98	2.50	15238.80	26714.30	15238.80	14.176

Travate n. 3003 5003 7003 9003 11003 13003 15003 17003 19003

3003 (a) Nodi: 307 308 -829 -830 -831 -832 -833 -834 -835 -836 309 -837 -838 -839 -840 -841 -842 -843 310 -844 -845 -846 -847 -848 -849 -850 311 -851 -852 -853 -854 -855 -856 -857 312 -858 -859 -860 -861 -862 -863 -864 -865 313 314 315 -866 -867 -868 -869 -870 -871 -872 -873 316 -874 -875 -876 -877 -878 -879 -880 -881 317 -882 -883 -884 -885 -886 -887 -888 318 -889 -890 -891 -892 -893 -894 -895 -896 319 -897 -898 -899 -900 -901 -902 -903 -904 320  
5003 (b) Nodi: 507 508 -1603 -1604 -1605 -1606 -1607 -1608 -1609 -1610 509 -1611 -1612 -1613 -1614 -1615 -1616 -1617 510 -1618 -1619 -1620 -1621 -1622 -1623 -1624 511 -1625 -1626 -1627 -1628 -1629 -1630 -1631 512 -1632 -1633 -1634 -1635 -1636 -1637 -1638 -1639 513 514 515 -1640 -1641 -1642 -1643 -1644 -1645 -1646 -1647 516 -1648 -1649 -1650 -1651 -1652 -1653 -1654 -1655 517 -1656 -1657 -1658 -1659 -1660 -1661 -1662 518 -1663 -1664 -1665 -1666 -1667 -1668 -1669 -1670 519 -1671 -1672 -1673 -1674 -1675 -1676 -1677 -1678 520  
7003 (c) Nodi: 707 708 -2368 -2369 -2370 -2371 -2372 -2373 -2374 -2375 709 -2376 -2377 -2378 -2379 -2380 -2381 -2382 710 -2383 -2384 -2385 -2386 -2387 -2388 -2389 711 -2390 -2391 -2392 -2393 -2394 -2395 -2396 712 -2397 -2398 -2399 -2400 -2401 -2402 -2403 -2404 713 714 715 -2405 -2406 -2407 -2408 -2409 -2410 -2411 -2412 716 -2413 -2414 -2415 -2416 -2417 -2418 -2419 -2420 717 -2421 -2422 -2423 -2424 -2425 -2426 -2427 718 -2428 -2429 -2430 -2431 -2432 -2433 -2434 -2435 719 -2436 -2437 -2438 -2439 -2440 -2441 -2442 -2443 720  
9003 (d) Nodi: 907 908 -3133 -3134 -3135 -3136 -3137 -3138 -3139 -3140 909 -3141 -3142 -3143 -3144 -3145 -3146 -3147 910 -3148 -3149 -3150 -3151 -3152 -3153 -3154 911 -3155 -3156 -3157 -3158 -3159 -3160 -3161 912 -3162 -3163 -3164 -3165 -3166 -3167 -3168 -3169 913 914 915 -3170 -3171 -3172 -3173 -3174 -3175 -3176 -3177 916 -3178 -3179 -3180 -3181 -3182 -3183 -3184 -3185 917 -3186 -3187 -3188 -3189 -3190 -3191 -3192 918 -3193 -3194 -3195 -3196 -3197 -3198 -3199 -3200 919 -3201 -3202 -3203 -3204 -3205 -3206 -3207 -3208 920  
11003 (e) Nodi: 1107 1108 -3898 -3899 -3900 -3901 -3902 -3903 -3904 -3905 1109 -3906 -3907 -3908 -3909 -3910 -3911 -3912 1110 -3913 -3914 -3915 -3916 -3917 -3918 -3919 1111 -3920 -3921 -3922 -3923 -3924 -3925 -3926 1112 -3927 -3928 -3929 -3930 -3931 -3932 -3933 -3934 1113 1114 1115 -3935 -3936 -3937 -3938 -3939 -3940 -3941 -3942 1116 -3943 -3944 -3945 -3946 -3947 -3948 -3949 -3950 1117 -3951 -3952 -3953 -3954 -3955 -3956 -3957 1118 -3958 -3959 -3960 -3961 -3962 -3963 -3964 -3965 1119 -3966 -3967 -3968 -3969 -3970 -3971 -3972 -3973 1120  
13003 (f) Nodi: 1307 1308 -4663 -4664 -4665 -4666 -4667 -4668 -4669 -4670 1309 -4671 -4672 -4673 -4674 -4675 -4676 -4677 1310 -4678 -4679 -4680 -4681 -4682 -4683 -4684 1311 -4685 -4686 -4687 -4688 -4689 -4690 -4691 1312 -4692 -4693 -4694 -4695 -4696 -4697 -4698 -4699 1313 1314 1315 -4700 -4701 -4702 -4703 -4704 -4705 -4706 -4707 1316 -4708 -4709 -4710 -4711 -4712 -4713 -4714 -4715 1317 -4716 -4717 -4718 -4719 -4720 -4721 -4722 1318 -4723 -4724 -4725 -4726 -4727 -4728 -4729 -4730 1319 -4731 -4732 -4733 -4734 -4735 -4736 -4737 -4738 1320  
15003 (g) Nodi: 1507 1508 -5428 -5429 -5430 -5431 -5432 -5433 -5434 -5435 1509 -5436 -5437 -5438 -5439 -5440 -5441 -5442 1510 -5443 -5444 -5445 -5446 -5447 -5448 -5449 1511 -5450 -5451 -5452 -5453 -5454 -5455 -5456 1512 -5457 -5458 -5459 -5460 -5461 -5462 -5463 -5464 1513 1514 1515 -5465 -5466 -5467 -5468 -5469 -5470 -5471 -5472 1516 -5473 -5474 -5475 -5476 -5477 -5478 -5479 -5480 1517 -5481 -5482 -5483 -5484 -5485 -5486 -5487 1518 -5488 -5489 -5490 -5491 -5492 -5493 -5494 -5495 1519 -5496 -5497 -5498 -5499 -5500 -5501 -5502 -5503 1520  
17003 (h) Nodi: 1707 1708 -6194 -6195 -6196 -6197 -6198 -6199 -6200 -6201 1709 -6202 -6203 -6204 -6205 -6206 -6207 -6208 1710 -6209 -6210 -6211 -6212 -6213 -6214 -6215 1711 -6216 -6217 -6218 -6219 -6220 -6221 -6222 1712 -6223 -6224 -6225 -6226 -6227 -6228 -6229 -6230 1713 1714 1715 -6231 -6232 -6233 -6234 -6235 -6236 -6237 -6238 1716 -6239 -6240 -6241 -6242 -6243 -6244 -6245 -6246 1717 -6247 -6248 -6249 -6250 -6251 -6252 -6253 1718 -6254 -6255 -6256 -6257 -6258 -6259 -6260 -6261 1719 -6262 -6263 -6264 -6265 -6266 -6267 -6268 -6269 1720  
19003 (i) Nodi: 1907 1908 -6959 -6960 -6961 -6962 -6963 -6964 -6965 -6966 1909 -6967 -6968 -6969 -6970 -6971 -6972 -6973 1910 -6974 -6975 -6976 -6977 -6978 -6979 -6980 1911 -6981 -6982 -6983 -6984 -6985 -6986 -6987 1912 -6988 -6989 -6990 -6991 -6992 -6993 -6994 -6995 1913 1914 1915 -6996 -6997 -6998 -6999 -7000 -7001 -7002 -7003 1916 -7004 -7005 -7006 -7007 -7008 -7009 -7010 -7011 1917 -7012 -7013 -7014 -7015 -7016 -7017 -7018 1918 -7019 -7020 -7021 -7022 -7023 -7024 -7025 -7026 1919 -7027 -7028 -7029 -7030 -7031 -7032 -7033 -7034 1920

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
28R		100.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	In	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.12	1	SLU	h	1	12.50	9.80	4.93	9.80	4.93	-4065.34	-6787.31	1.670
1.43	1	SLU	i	1	142.50	2.01	4.93	2.01	4.93	2645.35	3654.38	1.381
2.73	1	SLU	a	1	272.50	2.01	4.93	2.01	4.93	-2954.78	-1874.59	0.634
3.05	1	SLU	a	1	305.00	10.56	9.55	10.56	9.55	-3622.40	-7259.71	2.004
3.45	1	SLU	d	2	20.00	10.56	7.19	10.56	7.19	-4441.63	-7258.26	1.634
3.79	1	SLU	d	3	18.06	2.01	7.19	2.01	7.19	-2253.99	-1940.14	0.861
5.06	1	SLU	i	6	36.11	2.01	7.19	2.01	7.19	2575.44	5121.43	1.989
6.30	1	SLU	a	10	16.11	14.36	17.44	14.36	17.44	-3399.05	-9597.43	2.824
6.70	1	SLU	d	11	20.00	14.36	17.44	14.36	17.44	-3429.30	-9597.43	2.799
8.10	1	SLU	i	15	0.00	2.01	10.24	2.01	10.24	1413.77	7055.12	4.990
9.50	1	SLU	a	18	20.00	12.88	14.39	12.88	14.39	-2578.42	-8691.98	3.371
9.90	1	SLU	a	19	20.00	12.88	8.23	12.88	8.23	-2805.06	-8695.52	3.100
11.01	1	SLU	h	22	18.75	2.01	5.15	2.01	5.15	1805.57	3802.97	2.106
12.50	1	SLU	b	26	17.50	12.88	8.23	12.88	8.23	-2572.88	-8695.52	3.380



# Relazione di calcolo

12.90	1	SLU	a	27	20.00	12.88	8.23	12.88	8.23	-2778.43	-8695.52	3.130
14.09	1	SLU	d	30	19.88	2.01	3.08	2.01	3.08	1338.67	2394.02	1.788
15.68	1	SLU	i	34	19.75	14.36	10.27	14.36	10.27	-3247.53	-9600.88	2.956
16.08	1	SLU	b	35	20.00	14.36	10.27	14.36	10.27	-3679.13	-9600.88	2.610
17.50	1	SLU	i	39	18.06	2.01	7.19	2.01	7.19	2632.80	5121.43	1.945
18.93	1	SLU	d	43	16.11	10.56	9.55	10.56	9.55	-3943.71	-7259.71	1.841
19.33	1	SLU	a	44	20.00	10.56	9.55	10.56	9.55	-3272.28	-7259.71	2.219
20.78	1	SLU	e	44	164.82	2.01	4.93	2.01	4.93	1741.44	3654.38	2.098
21.55	1	SLU	h	44	241.67	2.01	4.93	2.01	4.93	-2207.43	-1874.59	0.849
22.18	1	SLU	h	44	305.00	9.80	4.93	9.80	4.93	-4943.14	-6787.31	1.373
22.58	1	SLU	h	45	20.00	9.80	4.93	9.80	4.93	-4823.74	-6787.31	1.407
23.21	1	SLU	h	45	83.33	2.01	4.93	2.01	4.93	-2148.13	-1874.59	0.873
24.00	1	SLU	e	45	162.50	2.01	4.93	2.01	4.93	1697.24	3654.38	2.153
25.43	1	SLU	a	45	305.00	12.10	9.55	12.10	9.55	-2916.60	-8210.13	2.815
25.83	1	SLU	d	46	20.00	12.10	9.55	12.10	9.55	-4596.46	-8210.13	1.786
27.44	1	SLU	i	50	36.11	2.01	7.19	2.01	7.19	2596.22	5121.43	1.973
28.68	1	SLU	a	54	16.11	15.90	17.44	15.90	17.44	-3445.50	-10539.30	3.059
29.08	1	SLU	d	55	20.00	15.90	12.82	15.90	12.82	-3484.51	-10541.60	3.025
30.32	1	SLU	i	59	0.00	2.01	10.24	2.01	10.24	1572.95	7055.12	4.485
31.93	1	SLU	a	63	16.11	12.88	11.25	12.88	11.25	-2596.80	-8693.47	3.348
32.33	1	SLU	a	64	20.00	12.88	14.39	12.88	14.39	-2616.83	-8691.98	3.322
33.40	1	SLU	h	67	18.13	2.01	5.15	2.01	5.15	1637.56	3802.97	2.322
34.83	1	SLU	d	71	16.25	12.88	14.39	12.88	14.39	-2359.72	-8691.98	3.683
35.23	1	SLU	h	72	20.00	12.88	14.39	12.88	14.39	-2730.97	-8691.98	3.183
36.47	1	SLU	h	76	0.00	2.01	10.24	2.01	10.24	1597.27	7055.12	4.417
38.06	1	SLU	a	80	15.89	15.90	10.24	15.90	10.24	-3453.89	-10543.20	3.053
38.46	1	SLU	a	81	20.00	15.90	10.24	15.90	10.24	-3535.35	-10543.20	2.982
39.88	1	SLU	i	85	17.94	2.01	10.24	2.01	10.24	3099.09	7055.12	2.277
41.29	1	SLU	d	89	15.89	8.17	10.24	8.17	10.24	-4502.72	-5784.59	1.285

## Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	InEl	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>e</sub> sup <daN/cmq>	σ <sub>e</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>
0.12	2	SLE R h	1	12.50	9.80	4.93	-2859.51	1593.70	-297.87	45.82
0.12	4	SLE Q h	1	12.50	9.80	4.93	-2368.23	1319.89	-246.70	37.95
1.43	2	SLE R i	1	142.50	2.01	4.93	1851.33	-157.86	1990.70	40.01
1.43	4	SLE Q e	1	142.50	2.01	4.93	1507.19	-128.51	1620.66	32.58
2.73	2	SLE R a	1	272.50	2.01	4.93	-2082.04	5314.27	69.52	67.35
2.73	4	SLE Q a	1	272.50	2.01	4.93	-1836.11	4686.53	61.31	59.40
3.05	2	SLE R a	1	305.00	10.56	9.55	-2551.35	1327.52	-245.31	37.94
3.05	4	SLE Q a	1	305.00	10.56	9.55	-2249.52	1170.46	-216.29	33.45
3.45	2	SLE R d	2	20.00	10.56	7.19	-3168.49	1646.77	-318.79	48.23
3.45	4	SLE Q d	2	20.00	10.56	7.19	-2667.19	1386.23	-268.35	40.60
3.79	2	SLE R d	3	18.06	2.01	7.19	-1602.79	4086.47	49.61	52.10
3.79	4	SLE Q d	3	18.06	2.01	7.19	-1353.10	3449.86	41.88	43.98
5.06	2	SLE R i	6	36.11	2.01	7.19	1837.84	-190.24	1374.84	34.16
5.06	4	SLE Q h	6	36.11	2.01	7.19	1482.07	-153.41	1108.70	27.55
6.30	2	SLE R a	10	16.11	14.36	17.44	-2412.46	936.31	-209.16	29.67
6.30	4	SLE Q a	10	16.11	14.36	17.44	-2035.45	789.98	-176.47	25.03
6.70	2	SLE R d	11	20.00	14.36	17.44	-2445.19	949.01	-211.99	30.07
6.70	4	SLE Q d	11	20.00	14.36	17.44	-2180.20	846.16	-189.02	26.81
8.10	2	SLE R i	15	0.00	2.01	10.24	993.84	-110.76	530.31	16.18
8.10	4	SLE Q e	15	0.00	2.01	10.24	843.99	-94.06	450.35	13.74
9.50	2	SLE R a	18	20.00	12.88	14.39	-1815.62	781.62	-163.97	23.91
9.50	4	SLE Q a	18	20.00	12.88	14.39	-1545.01	665.12	-139.53	20.35
9.90	2	SLE R a	19	20.00	12.88	8.23	-1998.04	858.47	-201.14	27.95
9.90	4	SLE Q a	19	20.00	12.88	8.23	-1721.58	739.69	-173.31	24.09
11.01	2	SLE R h	22	18.75	2.01	5.15	1304.40	-114.86	1344.91	27.69
11.01	4	SLE Q h	22	18.75	2.01	5.15	1155.62	-101.75	1191.51	24.53
12.50	2	SLE R b	26	17.50	12.88	8.23	-1828.00	785.42	-184.02	25.57
12.50	4	SLE Q a	26	17.50	12.88	8.23	-1575.81	677.06	-158.63	22.05
12.90	2	SLE R a	27	20.00	12.88	8.23	-1963.81	843.77	-197.69	27.47
12.90	4	SLE Q a	27	20.00	12.88	8.23	-1670.79	717.87	-168.20	23.37
14.09	2	SLE R d	30	19.88	2.01	3.08	938.67	-37.07	1590.37	24.81
14.09	4	SLE Q d	30	19.88	2.01	3.08	807.02	-31.87	1367.32	21.33
15.68	2	SLE R i	34	19.75	14.36	10.27	-2321.03	899.27	-226.72	30.57
15.68	4	SLE Q g	34	19.75	14.36	10.27	-2016.94	781.45	-197.02	26.56
16.08	2	SLE R b	35	20.00	14.36	10.27	-2623.36	1016.41	-256.26	34.55
16.08	4	SLE Q b	35	20.00	14.36	10.27	-2235.37	866.09	-218.36	29.44
17.50	2	SLE R i	39	18.06	2.01	7.19	1889.78	-195.61	1413.70	35.13
17.50	4	SLE Q i	39	18.06	2.01	7.19	1496.67	-154.92	1119.63	27.82
18.93	2	SLE R d	43	16.11	10.56	9.55	-2788.70	1451.01	-268.13	41.47
18.93	4	SLE Q d	43	16.11	10.56	9.55	-2320.05	1207.16	-223.07	34.50
19.33	2	SLE R a	44	20.00	10.56	9.55	-2299.94	1196.70	-221.14	34.20
19.33	4	SLE Q a	44	20.00	10.56	9.55	-2011.27	1046.50	-193.38	29.91
20.78	2	SLE R e	44	164.82	2.01	4.93	1226.66	-104.59	1319.01	26.51
20.78	4	SLE Q e	44	164.82	2.01	4.93	1088.10	-92.78	1170.02	23.52
21.55	2	SLE R h	44	241.67	2.01	4.93	-1600.25	4084.52	53.43	51.77
21.55	4	SLE Q h	44	241.67	2.01	4.93	-1336.45	3411.19	44.62	43.23



# Relazione di calcolo

22.18	2	SLE R h	44	305.00	9.80	4.93	-3539.63	1972.75	-368.72	56.72
22.18	4	SLE Q h	44	305.00	9.80	4.93	-3023.79	1685.26	-314.98	48.45
22.58	2	SLE R h	45	20.00	9.80	4.93	-3442.33	1918.53	-358.58	55.16
22.58	4	SLE Q h	45	20.00	9.80	4.93	-2916.89	1625.68	-303.85	46.74
23.21	2	SLE R h	45	83.33	2.01	4.93	-1550.70	3958.04	51.78	50.16
23.21	4	SLE Q h	45	83.33	2.01	4.93	-1278.47	3263.21	42.69	41.36
24.00	2	SLE R e	45	162.50	2.01	4.93	1190.53	-101.51	1280.15	25.73
24.00	4	SLE Q e	45	162.50	2.01	4.93	1051.30	-89.64	1130.45	22.72
25.43	2	SLE R a	45	305.00	12.10	9.55	-2048.03	935.06	-200.18	28.93
25.43	4	SLE Q a	45	305.00	12.10	9.55	-1803.06	823.22	-176.24	25.47
25.83	2	SLE R d	46	20.00	12.10	9.55	-3280.32	1497.69	-320.63	46.33
25.83	4	SLE Q d	46	20.00	12.10	9.55	-2761.95	1261.02	-269.96	39.01
27.44	2	SLE R i	50	36.11	2.01	7.19	1856.80	-192.20	1389.03	34.52
27.44	4	SLE Q h	50	36.11	2.01	7.19	1465.19	-151.66	1096.08	27.24
28.68	2	SLE R a	54	16.11	15.90	17.44	-2445.08	860.29	-213.29	28.95
28.68	4	SLE Q a	54	16.11	15.90	17.44	-2066.66	727.14	-180.28	24.47
29.08	2	SLE R d	55	20.00	15.90	12.82	-2483.27	873.04	-233.28	30.74
29.08	4	SLE Q d	55	20.00	15.90	12.82	-2213.75	778.29	-207.97	27.40
30.32	2	SLE R i	59	0.00	2.01	10.24	1106.85	-123.35	590.61	18.02
30.32	4	SLE Q h	59	0.00	2.01	10.24	915.42	-102.02	488.46	14.91
31.93	2	SLE R a	63	16.11	12.88	11.25	-1827.60	785.98	-174.25	24.80
31.93	4	SLE Q a	63	16.11	12.88	11.25	-1551.02	667.03	-147.88	21.04
32.33	2	SLE R a	64	20.00	12.88	14.39	-1862.85	801.95	-168.24	24.53
32.33	4	SLE Q a	64	20.00	12.88	14.39	-1605.99	691.37	-145.04	21.15
33.40	2	SLE R h	67	18.13	2.01	5.15	1184.88	-104.33	1221.67	25.16
33.40	4	SLE Q h	67	18.13	2.01	5.15	1053.33	-92.75	1086.04	22.36
34.83	2	SLE R d	71	16.25	12.88	14.39	-1673.06	720.25	-151.09	22.03
34.83	4	SLE Q d	71	16.25	12.88	14.39	-1436.13	618.25	-129.70	18.91
35.23	2	SLE R h	72	20.00	12.88	14.39	-1921.44	827.17	-173.53	25.30
35.23	4	SLE Q h	72	20.00	12.88	14.39	-1560.03	671.59	-140.89	20.54
36.47	2	SLE R h	76	0.00	2.01	10.24	1120.69	-124.89	598.00	18.25
36.47	4	SLE Q h	76	0.00	2.01	10.24	944.23	-105.23	503.84	15.38
38.06	2	SLE R b	80	15.89	15.90	10.24	-2445.83	859.58	-239.94	31.09
38.06	4	SLE Q d	80	15.89	15.90	10.24	-2173.18	763.75	-213.19	27.62
38.46	2	SLE R a	81	20.00	15.90	10.24	-2496.36	877.34	-244.90	31.73
38.46	4	SLE Q a	81	20.00	15.90	10.24	-2103.24	739.17	-206.33	26.73
39.88	2	SLE R i	85	17.94	2.01	10.24	2213.72	-246.71	1181.23	36.05
39.88	4	SLE Q i	85	17.94	2.01	10.24	1747.44	-194.74	932.42	28.45
41.29	2	SLE R d	89	15.89	8.17	10.24	-3215.05	2141.67	-289.10	52.64
41.29	4	SLE Q d	89	15.89	8.17	10.24	-2629.74	1751.78	-236.47	43.05

## Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	In	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
26	0.12	4	SLE Q h	1	28	12.50	-2368.23	30.00	84.36	0.50	10.40	123.04	9.80	594.10	1319.89	0.43	0.09	
35	0.12	3	SLE F h	1	28	12.50	-2505.48	30.00	84.36	0.50	10.40	123.04	9.80	594.10	1396.39	0.41	0.09	
59	1.43	4	SLE Q e	1	28	142.50	1507.19	30.29	156.33	0.50	9.52	184.37	4.93	641.70	1620.66	0.47	0.15	
72	1.43	3	SLE F i	1	28	142.50	1577.26	30.29	156.33	0.50	9.52	184.37	4.93	641.70	1696.00	0.49	0.15	
1439	2.73	4	SLE Q a	1	28	272.50	-1836.11	31.00	313.33	0.50	8.00	336.88	2.01	690.84	4686.53	1.37	0.78	
1456	2.73	3	SLE F a	1	28	272.50	-1906.49	31.00	313.33	0.50	8.00	336.88	2.01	690.84	4866.18	1.42	0.81	
91	3.05	4	SLE Q a	1	28	305.00	-2249.52	29.83	84.36	0.50	10.84	120.76	10.56	594.95	1170.46	0.37	0.08	
100	3.05	3	SLE F a	1	28	305.00	-2335.88	29.83	84.36	0.50	10.84	120.76	10.56	594.95	1215.40	0.35	0.07	
130	3.45	4	SLE Q d	2	28	20.00	-2667.19	29.83	84.36	0.50	10.84	120.39	10.56	591.43	1386.23	0.47	0.10	
139	3.45	3	SLE F d	2	28	20.00	-2810.52	29.83	84.36	0.50	10.84	120.39	10.56	591.43	1460.72	0.43	0.09	
1504	3.79	4	SLE Q d	3	28	18.06	-1353.10	31.00	313.33	0.50	8.00	336.66	2.01	690.30	3449.86	1.00	0.58	
1518	3.79	3	SLE F d	3	28	18.06	-1424.52	31.00	313.33	0.50	8.00	336.66	2.01	690.30	3631.95	1.06	0.61	
170	5.06	4	SLE Q h	6	28	36.11	1482.07	29.43	156.33	0.50	11.74	159.16	7.19	614.45	1108.70	0.32	0.09	
179	5.06	3	SLE F h	6	28	36.11	1571.88	29.43	156.33	0.50	11.74	159.16	7.19	614.45	1175.89	0.34	0.09	
199	6.30	4	SLE Q a	10	28	16.11	-2035.45	29.23	77.33	0.50	12.19	107.68	14.36	579.86	789.98	0.23	0.04	
208	6.30	3	SLE F a	10	28	16.11	-2143.16	29.23	77.33	0.50	12.19	107.68	14.36	579.86	831.79	0.24	0.04	
238	6.70	4	SLE Q d	11	28	20.00	-2180.20	29.23	77.33	0.50	12.19	107.68	14.36	579.86	846.16	0.26	0.05	
247	6.70	3	SLE F d	11	28	20.00	-2256.13	29.23	77.33	0.50	12.19	107.68	14.36	579.86	875.63	0.26	0.05	
275	8.10	4	SLE Q e	15	28	0.00	843.99	28.75	134.29	0.50	13.04	132.04	10.24	585.43	450.35	0.13	0.03	
284	8.10	3	SLE F e	15	28	0.00	882.50	28.75	134.29	0.50	13.04	132.04	10.24	585.43	470.90	0.14	0.03	
307	9.50	4	SLE Q a	18	28	20.00	-1545.01	29.71	71.38	0.50	11.08	109.76	12.88	585.07	665.12	0.19	0.04	
316	9.50	3	SLE F a	18	28	20.00	-1622.28	29.71	71.38	0.50	11.08	109.76	12.88	585.07	698.39	0.20	0.04	
343	9.90	4	SLE Q a	19	28	20.00	-1721.58	29.71	71.38	0.50	11.08	108.96	12.88	575.77	739.69	0.22	0.04	
352	9.90	3	SLE F a	19	28	20.00	-1800.55	29.71	71.38	0.50	11.08	108.96	12.88	575.77	773.62	0.23	0.04	
386	11.01	4	SLE Q h	22	28	18.75	1155.62	30.50	134.29	0.50	9.11	173.96	5.15	638.75	1191.51	0.35	0.10	
395	11.01	3	SLE F h	22	28	18.75	1198.12	30.50	134.29	0.50	9.11	173.96	5.15	638.75	1235.33	0.36	0.11	
415	12.50	4	SLE Q a	26	28	17.50	-1575.81	29.71	71.38	0.50	11.08	108.96	12.88	575.77	677.06	0.20	0.04	
425	12.50	3	SLE F b	26	28	17.50	-1647.14	29.71	71.38	0.50	11.08	108.96	12.88	575.77	707.71	0.21	0.04	
451	12.90	4	SLE Q a	27	28	20.00	-1670.79	29.71	71.38	0.50	11.08	108.96	12.88	575.77	717.87	0.21	0.04	
460	12.90	3	SLE F a	27	28	20.00	-1754.45	29.71	71.38	0.50	11.08	108.96	12.88	575.77	753.82	0.22	0.04	
490	14.09	4	SLE Q d	30	28	19.88	807.02	28.00	934.00	0.50	14.00	360.86	3.08	670.43	1367.32	0.40	0.24	
499	14.09	3	SLE F d	30	28	19.88	844.65	28.00	934.00	0.50	14.00	360.86	3.08	670.43	1431.08	0.42	0.26	
529	15.68	4	SLE Q g	34	28	19.75	-2016.94	29.23	77.33	0.50	12.19	106.78	14.36	569.23	781.45	0.23	0.04	
538	15.68	3	SLE F g	34	28	19.75	-2083.13	29.23	77.33	0.50	12.19	106.78	14.36	569.23	807.10	0.24	0.04	
560	16.08	4	SLE Q b	35	28	20.00	-2235.37	29.23	77.33	0.50	12.19	106.78	14.36	569.23	866.09	0.27	0.05	



Relazione di calcolo

569	16.08	3	SLE F	b	35	28	20.00	-2346.19	29.23	77.33	0.50	12.19	106.78	14.36	569.23	909.02	0.26	0.05
603	17.50	4	SLE Q	i	39	28	18.06	1496.67	29.43	156.33	0.50	11.74	159.16	7.19	614.45	1119.63	0.33	0.09
612	17.50	3	SLE F	i	39	28	18.06	1603.91	29.43	156.33	0.50	11.74	159.16	7.19	614.45	1199.85	0.35	0.09
634	18.93	4	SLE Q	d	43	28	16.11	-2320.05	29.83	84.36	0.50	10.84	120.76	10.56	594.95	1207.16	0.39	0.08
643	18.93	3	SLE F	d	43	28	16.11	-2454.05	29.83	84.36	0.50	10.84	120.76	10.56	594.95	1276.89	0.37	0.08
667	19.33	4	SLE Q	a	44	28	20.00	-2011.27	29.83	84.36	0.50	10.84	120.76	10.56	594.95	1046.50	0.31	0.06
676	19.33	3	SLE F	a	44	28	20.00	-2093.66	29.83	84.36	0.50	10.84	120.76	10.56	594.95	1089.37	0.32	0.07
707	20.78	4	SLE Q	e	44	28	164.82	1088.10	30.29	156.33	0.50	9.52	184.37	4.93	641.70	1170.02	0.34	0.11
716	20.78	3	SLE F	e	44	28	164.82	1127.69	30.29	156.33	0.50	9.52	184.37	4.93	641.70	1212.59	0.35	0.11
1576	21.55	4	SLE Q	h	44	28	241.67	-1336.45	31.00	313.33	0.50	8.00	336.88	2.01	690.84	3411.19	0.99	0.57
1593	21.55	3	SLE F	h	44	28	241.67	-1411.89	31.00	313.33	0.50	8.00	336.88	2.01	690.84	3603.74	1.05	0.60
746	22.18	4	SLE Q	h	44	28	305.00	-3023.79	30.00	84.36	0.50	10.40	123.04	9.80	594.10	1685.26	0.60	0.13
755	22.18	3	SLE F	h	44	28	305.00	-3171.27	30.00	84.36	0.50	10.40	123.04	9.80	594.10	1767.46	0.54	0.11
782	22.58	4	SLE Q	h	45	28	20.00	-2916.89	30.00	84.36	0.50	10.40	123.04	9.80	594.10	1625.68	0.58	0.12
791	22.58	3	SLE F	h	45	28	20.00	-3066.98	30.00	84.36	0.50	10.40	123.04	9.80	594.10	1709.33	0.51	0.11
1644	23.21	4	SLE Q	h	45	28	83.33	-1278.47	31.00	313.33	0.50	8.00	336.88	2.01	690.84	3263.21	0.95	0.54
1661	23.21	3	SLE F	h	45	28	83.33	-1356.21	31.00	313.33	0.50	8.00	336.88	2.01	690.84	3461.63	1.01	0.58
815	24.00	4	SLE Q	e	45	28	162.50	1051.30	30.29	156.33	0.50	9.52	184.37	4.93	641.70	1130.45	0.33	0.10
824	24.00	3	SLE F	e	45	28	162.50	1090.59	30.29	156.33	0.50	9.52	184.37	4.93	641.70	1172.69	0.34	0.11
847	25.43	4	SLE Q	a	45	28	305.00	-1803.06	29.69	77.33	0.50	11.16	113.21	12.10	583.41	823.22	0.24	0.05
856	25.43	3	SLE F	a	45	28	305.00	-1873.05	29.69	77.33	0.50	11.16	113.21	12.10	583.41	855.17	0.25	0.05
886	25.83	4	SLE Q	d	46	28	20.00	-2761.95	29.69	77.33	0.50	11.16	113.21	12.10	583.41	1261.02	0.44	0.08
895	25.83	3	SLE F	d	46	28	20.00	-2910.05	29.69	77.33	0.50	11.16	113.21	12.10	583.41	1328.63	0.39	0.07
926	27.44	4	SLE Q	h	50	28	36.11	1465.19	29.43	156.33	0.50	11.74	159.16	7.19	614.45	1096.08	0.32	0.09
936	27.44	3	SLE F	i	50	28	36.11	1568.54	29.43	156.33	0.50	11.74	159.16	7.19	614.45	1173.39	0.34	0.09
955	28.68	4	SLE Q	a	54	28	16.11	-2066.66	29.14	71.38	0.50	12.34	102.60	15.90	570.75	727.14	0.22	0.04
964	28.68	3	SLE F	a	54	28	16.11	-2174.78	29.14	71.38	0.50	12.34	102.60	15.90	570.75	765.19	0.22	0.04
994	29.08	4	SLE Q	d	55	28	20.00	-2213.75	29.14	71.38	0.50	12.34	102.06	15.90	563.84	778.29	0.24	0.04
1003	29.08	3	SLE F	d	55	28	20.00	-2290.97	29.14	71.38	0.50	12.34	102.06	15.90	563.84	805.44	0.23	0.04
1034	30.32	4	SLE Q	h	59	28	0.00	915.42	28.75	134.29	0.50	13.04	132.04	10.24	585.43	488.46	0.14	0.03
1043	30.32	3	SLE F	h	59	28	0.00	959.64	28.75	134.29	0.50	13.04	132.04	10.24	585.43	512.06	0.15	0.03
1063	31.93	4	SLE Q	a	63	28	16.11	-1551.02	29.71	71.38	0.50	11.08	109.37	12.88	580.50	667.03	0.19	0.04
1072	31.93	3	SLE F	a	63	28	16.11	-1630.00	29.71	71.38	0.50	11.08	109.37	12.88	580.50	701.00	0.20	0.04
1099	32.33	4	SLE Q	a	64	28	20.00	-1605.99	29.71	71.38	0.50	11.08	109.76	12.88	585.07	691.37	0.20	0.04
1108	32.33	3	SLE F	a	64	28	20.00	-1679.36	29.71	71.38	0.50	11.08	109.76	12.88	585.07	722.96	0.21	0.04
1142	33.40	4	SLE Q	h	67	28	18.13	1053.33	30.50	134.29	0.50	9.11	173.96	5.15	638.75	1086.04	0.32	0.09
1151	33.40	3	SLE F	h	67	28	18.13	1090.95	30.50	134.29	0.50	9.11	173.96	5.15	638.75	1124.82	0.33	0.10
1174	34.83	4	SLE Q	d	71	28	16.25	-1436.13	29.71	71.38	0.50	11.08	109.76	12.88	585.07	618.25	0.18	0.03
1183	34.83	3	SLE F	d	71	28	16.25	-1503.85	29.71	71.38	0.50	11.08	109.76	12.88	585.07	647.40	0.19	0.04
1214	35.23	4	SLE Q	h	72	28	20.00	-1560.03	29.71	71.38	0.50	11.08	109.76	12.88	585.07	671.59	0.20	0.04
1223	35.23	3	SLE F	h	72	28	20.00	-1662.26	29.71	71.38	0.50	11.08	109.76	12.88	585.07	715.60	0.21	0.04
1250	36.47	4	SLE Q	h	76	28	0.00	944.23	28.75	134.29	0.50	13.04	132.04	10.24	585.43	503.84	0.15	0.03
1259	36.47	3	SLE F	h	76	28	0.00	994.34	28.75	134.29	0.50	13.04	132.04	10.24	585.43	530.57	0.15	0.03
1282	38.06	4	SLE Q	d	80	28	15.89	-2173.18	29.14	71.38	0.50	12.34	101.74	15.90	559.67	763.75	0.24	0.04
1291	38.06	3	SLE F	d	80	28	15.89	-2248.17	29.14	71.38	0.50	12.34	101.74	15.90	559.67	790.11	0.23	0.04
1315	38.46	4	SLE Q	a	81	28	20.00	-2103.24	29.14	71.38	0.50	12.34	101.74	15.90	559.67	739.17	0.23	0.04
1324	38.46	3	SLE F	a	81	28	20.00	-2215.75	29.14	71.38	0.50	12.34	101.74	15.90	559.67	778.72	0.23	0.04
1359	39.88	4	SLE Q	i	85	28	17.94	1747.44	28.75	134.29	0.50	13.04	132.04	10.24	585.43	932.42	0.27	0.06
1368	39.88	3	SLE F	i	85	28	17.94	1872.93	28.75	134.29	0.50	13.04	132.04	10.24	585.43	999.38	0.29	0.07
1390	41.29	4	SLE Q	d	89	28	15.89	-2629.74	29.50	132.57	0.50	11.82	148.12	8.17	615.94	1751.78	0.59	0.15
1399	41.29	3	SLE F	d	89	28	15.89	-2795.96	29.50	132.57	0.50	11.82	148.12	8.17	615.94	1862.50	0.54	0.14

Stato limite ultimo - Verifiche a taglio

CC	X0 [m]	X1 [m]	Lung. [m]	In	Staff.	AfE St. [cmq/m]	bw [m]	Vsdu [daN]	ctgθ	VRsd [daN]	VRcd [daN]	Vrdu [daN]	Sic.
1 SLU	0.20	0.46	0.26	h	ø12/20 2 br.	11.31	1.00	7242.08	2.50	16254.70	30719.10	16254.70	2.244
1 SLU	0.46	2.79	2.33	a	ø6/20 2 br.	2.83	1.00	6108.96	2.50	4063.67	30719.10	4063.67	0.665
1 SLU	2.79	3.05	0.26	a	ø12/20 2 br.	11.31	1.00	7290.36	2.50	16254.70	30719.10	16254.70	2.230
1 SLU	3.45	3.71	0.26	d	ø12/20 2 br.	11.31	1.00	12105.10	2.50	16254.70	30719.10	16254.70	1.343
1 SLU	3.71	6.04	2.33	d	ø6/20 2 br.	2.83	1.00	5896.88	2.50	4063.67	30719.10	4063.67	0.689
1 SLU	6.04	6.30	0.26	a	ø12/20 2 br.	11.31	1.00	9480.48	2.50	16254.70	30719.10	16254.70	1.715
1 SLU	6.70	6.96	0.26	d	ø12/20 2 br.	11.31	1.00	8595.92	2.50	16254.70	30719.10	16254.70	1.891
1 SLU	6.96	9.24	2.28	d	ø6/20 2 br.	2.83	1.00	4590.15	2.50	4063.67	30719.10	4063.67	0.885
1 SLU	9.24	9.50	0.26	h	ø12/20 2 br.	11.31	1.00	7195.23	2.50	16254.70	30719.10	16254.70	2.259
1 SLU	9.90	10.16	0.26	b	ø12/20 2 br.	11.31	1.00	8083.61	2.50	16254.70	30719.10	16254.70	2.011
1 SLU	10.16	12.24	2.08	b	ø6/20 2 br.	2.83	1.00	4190.40	2.50	4063.67	30719.10	4063.67	0.970
1 SLU	12.24	12.50	0.26	d	ø12/20 2 br.	11.31	1.00	7746.71	2.50	16254.70	30719.10	16254.70	2.098
1 SLU	12.90	13.16	0.26	a	ø12/20 2 br.	11.31	1.00	7376.33	2.50	16254.70	30719.10	16254.70	2.204
1 SLU	13.16	15.42	2.26	d	ø6/20 2 br.	2.83	1.00	4395.27	2.50	4063.67	30719.10	4063.67	0.925
1 SLU	15.42	15.68	0.26	d	ø12/20 2 br.	11.31	1.00	8156.37	2.50	16254.70	30719.10	16254.70	1.993
1 SLU	16.08	16.34	0.26	b	ø12/20 2 br.	11.31	1.00	9967.94	2.50	16254.70	30719.10	16254.70	1.631
1 SLU	16.34	18.67	2.33	d	ø6/20 2 br.	2.83	1.00	5525.83	2.50	4063.67	30719.10	4063.67	0.735
1 SLU	18.67	18.93	0.26	d	ø12/20 2 br.	11.31	1.00	11415.00	2.50	16254.70	30719.10	16254.70	1.424
1 SLU	19.33	19.59	0.26	a	ø12/20 2 br.	11.31	1.00	6641.76	2.50	16254.70	30719.10	16254.70	2.447
1 SLU	19.59	21.92	2.33	h	ø6/20 2 br.	2.83	1.00	6534.75	2.50	4063.67	30719.10	4063.67	0.622
1 SLU	21.92	22.18	0.26	h	ø12/20 2 br.	11.31	1.00	7716.14	2.50	16254.70	30719.10	16254.70	2.107
1 SLU	22.58	22.84	0.26	h	ø12/20 2 br.	11.31	1.00	7566.89	2.50	16254.70	30719.10	16254.70	2.148
1 SLU	22.84	25.17	2.33	h	ø6/20 2 br.	2.83	1.00	6385.50	2.50	4063.67	30719.10	4063.67	0.636
1SLU	25.17	25.43	0.26	a	ø12/20 2 br.	11.31	1.00	6375.99	2.50	16254.70	30719.10	16254.70	2.549



Relazione di calcolo

1	SLU	25.83	26.09	0.26	d	ø12/20 2 br.	11.31	1.00	12341.50	2.50	16254.70	30719.10	16254.70	1.317
1	SLU	26.09	28.42	2.33	d	ø6/20 2 br.	2.83	1.00	6021.65	2.50	4063.67	30719.10	4063.67	0.675
1	SLU	28.42	28.68	0.26	a	ø12/20 2 br.	11.31	1.00	9614.04	2.50	16254.70	30719.10	16254.70	1.691
1	SLU	29.08	29.34	0.26	d	ø12/20 2 br.	11.31	1.00	8932.99	2.50	16254.70	30719.10	16254.70	1.820
1	SLU	29.34	31.67	2.33	d	ø6/20 2 br.	2.83	1.00	4842.32	2.50	4063.67	30719.10	4063.67	0.839
1	SLU	31.67	31.93	0.26	h	ø12/20 2 br.	11.31	1.00	7535.56	2.50	16254.70	30719.10	16254.70	2.157
1	SLU	32.33	32.59	0.26	a	ø12/20 2 br.	11.31	1.00	7755.11	2.50	16254.70	30719.10	16254.70	2.096
1	SLU	32.59	34.57	1.98	a	ø6/20 2 br.	2.83	1.00	4063.43	2.50	4063.67	30719.10	4063.67	1.000
1	SLU	34.57	34.83	0.26	d	ø12/20 2 br.	11.31	1.00	7381.54	2.50	16254.70	30719.10	16254.70	2.202
1	SLU	35.23	35.49	0.26	h	ø12/20 2 br.	11.31	1.00	8077.32	2.50	16254.70	30719.10	16254.70	2.012
1	SLU	35.49	37.80	2.31	d	ø6/20 2 br.	2.83	1.00	4833.26	2.50	4063.67	30719.10	4063.67	0.841
1	SLU	37.80	38.06	0.26	d	ø12/20 2 br.	11.31	1.00	8947.50	2.50	16254.70	30719.10	16254.70	1.817
1	SLU	38.46	38.72	0.26	a	ø12/20 2 br.	11.31	1.00	9621.41	2.50	16254.70	30719.10	16254.70	1.689
1	SLU	38.72	41.03	2.31	d	ø6/20 2 br.	2.83	1.00	5975.66	2.50	4063.67	30719.10	4063.67	0.680
1	SLU	41.03	41.29	0.26	d	ø12/20 2 br.	11.31	1.00	12297.30	2.50	16254.70	30719.10	16254.70	1.322

Travate n. 3007 5007 7007 9007 11007 13007 15007 17007 19007

3007 (a) Nodi: 325 326 327 389 390 -927 391 392 328 329 330 331 332 393 394 -928 395 396 333 334  
5007 (b) Nodi: 525 526 527 589 590 -1701 591 592 528 529 530 531 532 593 594 -1702 595 596 533 534  
7007 (c) Nodi: 725 726 727 789 790 -2466 791 792 728 729 730 731 732 793 794 -2467 795 796 733 734  
9007 (d) Nodi: 925 926 927 989 990 -3231 991 992 928 929 930 931 932 993 994 -3232 995 996 933 934  
11007 (e) Nodi: 1125 1126 1127 1189 1190 -3996 1191 1192 1128 1129 1130 1131 1132 1193 1194 -3997 1195 1196 1133 1134  
13007 (f) Nodi: 1325 1326 1327 1389 1390 -4761 1391 1392 1328 1329 1330 1331 1332 1393 1394 -4762 1395 1396 1333 1334  
15007 (g) Nodi: 1525 1526 1527 1589 1590 -5527 1591 1592 1528 1529 1530 1531 1532 1593 1594 -5528 1595 1596 1533 1534  
17007 (h) Nodi: 1725 1726 1727 1789 1790 -6292 1791 1792 1728 1729 1730 1731 1732 1793 1794 -6293 1795 1796 1733 1734  
19007 (i) Nodi: 1925 1926 1927 1989 1990 -7057 1991 1992 1928 1929 1930 1931 1932 1993 1994 -7058 1995 1996 1933 1934

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	b <cm>	H <cm>	h <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
28	R	100.00		24.00		3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
37	T	100.00	14.00	24.00	41.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
32	R	14.00		65.00		3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	In	El	X <cm>	AfE S <cm²>	AfE I <cm²>	AfEP S <cm²>	AfEP I <cm²>	My <daNm>	MRdy <daNm>	Sic.
0.12	1	SLU	h	1	12.50	2.01	2.01	2.01	2.01	-4361.07	-1654.85	0.379
1.33	1	SLU	i	1	133.50	2.01	2.01	2.01	2.01	4677.39	1654.85	0.354
3.05	1	SLU	i	1	305.00	2.01	2.01	2.01	2.01	-5993.82	-1654.85	0.276
3.15	1	SLU	i	1	315.00	2.01	2.01	2.01	2.01	-5993.82	-1654.85	0.276
3.45	1	SLU	i	2	20.00	2.01	2.01	2.01	2.01	-5113.95	-1654.85	0.324
4.76	1	SLU	i	2	151.11	2.01	2.01	2.01	2.01	3408.77	1654.85	0.485
6.30	1	SLU	i	2	305.00	2.01	2.01	2.01	2.01	-5771.69	-1654.85	0.287
6.40	1	SLU	i	2	315.00	2.01	2.01	2.01	2.01	-5771.69	-1654.85	0.287
6.70	1	SLU	a	3	20.00	2.01	2.01	2.01	2.01	-4876.76	-1654.85	0.339
8.37	1	SLU	i	3	187.38	2.01	2.01	2.01	2.01	4407.93	1654.85	0.375
10.40	1	SLU	i	4	70.00	8.04	6.03	8.04	6.03	-12712.40	-16810.10	1.322
11.98	1	SLU	i	7	0.00	6.03	6.03	6.03	6.03	-13617.70	-12652.00	0.929
14.36	1	SLU	i	8	165.56	2.01	2.01	2.01	2.01	4461.49	1654.85	0.371
15.68	1	SLU	i	8	298.00	2.01	2.01	2.01	2.01	-4806.76	-1654.85	0.344
15.98	1	SLU	i	9	10.00	2.01	2.01	2.01	2.01	-6138.87	-1654.85	0.270
16.08	1	SLU	i	9	20.00	2.01	2.01	2.01	2.01	-6138.87	-1654.85	0.270
17.29	1	SLU	i	9	141.11	2.01	2.01	2.01	2.01	3429.39	1654.85	0.483
18.93	1	SLU	i	9	305.00	2.01	2.01	2.01	2.01	-4733.11	-1654.85	0.350
19.23	1	SLU	i	10	10.00	2.01	2.01	2.01	2.01	-5681.68	-1654.85	0.291
19.33	1	SLU	i	10	20.00	2.01	2.01	2.01	2.01	-5681.68	-1654.85	0.291
20.75	1	SLU	i	10	162.50	2.01	2.01	2.01	2.01	3435.50	1654.85	0.482
22.18	1	SLU	i	10	305.00	2.01	2.01	2.01	2.01	-6327.77	-1654.85	0.262
22.28	1	SLU	i	10	315.00	2.01	2.01	2.01	2.01	-6327.77	-1654.85	0.262
22.58	1	SLU	i	11	20.00	2.01	2.01	2.01	2.01	-5611.20	-1654.85	0.295
23.89	1	SLU	i	11	151.11	2.01	2.01	2.01	2.01	3296.32	1654.85	0.502
25.43	1	SLU	i	11	305.00	2.01	2.01	2.01	2.01	-5473.81	-1654.85	0.302
25.53	1	SLU	i	11	315.00	2.01	2.01	2.01	2.01	-5473.81	-1654.85	0.302
25.83	1	SLU	i	12	20.00	2.01	2.01	2.01	2.01	-5010.39	-1654.85	0.330
27.14	1	SLU	i	12	151.11	2.01	2.01	2.01	2.01	3558.00	1654.85	0.465
28.68	1	SLU	i	12	305.00	2.01	2.01	2.01	2.01	-5602.42	-1654.85	0.295
28.78	1	SLU	i	12	315.00	2.01	2.01	2.01	2.01	-5602.42	-1654.85	0.295
29.08	1	SLU	a	13	20.00	2.01	2.01	2.01	2.01	-4487.90	-1654.85	0.369
30.30	1	SLU	i	13	142.00	2.01	2.01	2.01	2.01	4479.60	1654.85	0.369
31.82	1	SLU	i	13	294.50	2.01	2.01	2.01	2.01	-5164.37	-1654.85	0.320
32.78	1	SLU	i	14	65.00	8.04	6.03	8.04	6.03	-12942.10	-16810.10	1.299
34.36	1	SLU	i	17	0.00	8.04	6.03	8.04	6.03	-13008.10	-16810.10	1.292
36.40	1	SLU	i	18	136.53	2.01	2.01	2.01	2.01	4374.21	1654.85	0.378
38.06	1	SLU	i	18	303.00	2.01	2.01	2.01	2.01	-5227.29	-1654.85	0.317
38.36	1	SLU	i	19	10.00	2.01	2.01	2.01	2.01	-6868.72	-1654.85	0.241
38.46	1	SLU	i	19	20.00	2.01	2.01	2.01	2.01	-6868.72	-1654.85	0.241
39.88	1	SLU	i	19	161.50	2.01	2.01	2.01	2.01	4901.87	1654.85	0.338
41.29	1	SLU	a	19	303.00	2.01	2.01	2.01	2.01	-3739.45	-1654.85	0.443



Relazione di calcolo

41.39	1	SLU	a	19	313.00	2.01	2.01	2.01	2.01	-3739.45	-1654.85	0.443
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Stato limite d'esercizio - Verifiche tensionali

Xg <cm>	CC	TCC	In	El	X <cm>	AfE S	AfE I	My <daNm>	$\sigma_f$ sup <daN/cmq>	$\sigma_f$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.12	2	SLE R	h	1	12.50	2.01	2.01	-3055.33	7811.98	113.61	98.09
0.12	4	SLE Q	h	1	12.50	2.01	2.01	-2344.46	5994.41	87.18	75.27
1.33	2	SLE R	i	1	133.50	2.01	2.01	3262.70	121.32	8342.18	104.75
1.33	4	SLE Q	i	1	133.50	2.01	2.01	2563.25	95.31	6553.83	82.29
3.05	2	SLE R	i	1	305.00	2.01	2.01	-4199.92	10738.50	156.17	134.84
3.05	4	SLE Q	i	1	305.00	2.01	2.01	-3362.76	8598.03	125.04	107.96
3.15	2	SLE R	i	1	315.00	2.01	2.01	-4199.92	10738.50	156.17	134.84
3.15	4	SLE Q	i	1	315.00	2.01	2.01	-3362.76	8598.03	125.04	107.96
3.45	2	SLE R	i	2	20.00	2.01	2.01	-3574.04	9138.25	132.90	114.74
3.45	4	SLE Q	i	2	20.00	2.01	2.01	-2818.21	7205.70	104.79	90.48
4.76	2	SLE R	i	2	151.11	2.01	2.01	2378.80	88.45	6082.22	76.37
4.76	4	SLE Q	i	2	151.11	2.01	2.01	1860.30	69.17	4756.49	59.72
6.30	2	SLE R	i	2	305.00	2.01	2.01	-4021.50	10282.30	149.53	129.11
6.30	4	SLE Q	i	2	305.00	2.01	2.01	-3153.66	8063.40	117.27	101.25
6.40	2	SLE R	i	2	315.00	2.01	2.01	-4021.50	10282.30	149.53	129.11
6.40	4	SLE Q	i	2	315.00	2.01	2.01	-3153.66	8063.40	117.27	101.25
6.70	2	SLE R	a	3	20.00	2.01	2.01	-3472.11	8877.63	129.11	111.47
6.70	4	SLE Q	a	3	20.00	2.01	2.01	-2808.44	7180.73	104.43	90.16
8.37	2	SLE R	i	3	187.38	2.01	2.01	3078.54	114.47	7871.33	98.84
8.37	4	SLE Q	i	3	187.38	2.01	2.01	2418.85	89.94	6184.62	77.66
10.40	2	SLE R	i	4	70.00	8.04	6.03	-8920.97	1995.74	-892.60	71.13
10.40	4	SLE Q	i	4	70.00	8.04	6.03	-7082.95	1584.55	-708.69	56.47
11.98	2	SLE R	i	7	0.00	6.03	6.03	-9598.49	2830.32	-1015.16	83.15
11.98	4	SLE Q	i	7	0.00	6.03	6.03	-7635.39	2251.46	-807.54	66.14
14.36	2	SLE R	i	8	165.56	2.01	2.01	3114.42	115.81	7963.07	99.99
14.36	4	SLE Q	i	8	165.56	2.01	2.01	2441.03	90.77	6241.33	78.37
15.68	2	SLE R	i	8	298.00	2.01	2.01	-3349.62	8564.43	124.55	107.54
15.68	4	SLE Q	i	8	298.00	2.01	2.01	-2641.35	6753.50	98.22	84.80
15.98	2	SLE R	i	9	10.00	2.01	2.01	-4302.30	11000.30	159.97	138.12
15.98	4	SLE Q	i	9	10.00	2.01	2.01	-3433.13	8777.96	127.66	110.22
16.08	2	SLE R	i	9	20.00	2.01	2.01	-4302.30	11000.30	159.97	138.12
16.08	4	SLE Q	i	9	20.00	2.01	2.01	-3433.13	8777.96	127.66	110.22
17.29	2	SLE R	i	9	141.11	2.01	2.01	2399.91	89.24	6136.17	77.05
17.29	4	SLE Q	i	9	141.11	2.01	2.01	1898.03	70.58	4852.95	60.94
18.93	2	SLE R	i	9	305.00	2.01	2.01	-3273.64	8370.18	121.73	105.10
18.93	4	SLE Q	i	9	305.00	2.01	2.01	-2491.11	6369.36	92.63	79.98
19.23	2	SLE R	i	10	10.00	2.01	2.01	-3942.05	10079.20	146.58	126.56
19.23	4	SLE Q	i	10	10.00	2.01	2.01	-3012.86	7703.41	112.03	96.73
19.33	2	SLE R	i	10	20.00	2.01	2.01	-3942.05	10079.20	146.58	126.56
19.33	4	SLE Q	i	10	20.00	2.01	2.01	-3012.86	7703.41	112.03	96.73
20.75	2	SLE R	i	10	162.50	2.01	2.01	2399.04	89.21	6133.95	77.02
20.75	4	SLE Q	i	10	162.50	2.01	2.01	1890.91	70.31	4834.76	60.71
22.18	2	SLE R	i	10	305.00	2.01	2.01	-4434.94	11339.40	164.91	142.38
22.18	4	SLE Q	i	10	305.00	2.01	2.01	-3545.60	9065.53	131.84	113.83
22.28	2	SLE R	i	10	315.00	2.01	2.01	-4434.94	11339.40	164.91	142.38
22.28	4	SLE Q	i	10	315.00	2.01	2.01	-3545.60	9065.53	131.84	113.83
22.58	2	SLE R	i	11	20.00	2.01	2.01	-3930.34	10049.20	146.14	126.18
22.58	4	SLE Q	i	11	20.00	2.01	2.01	-3112.71	7958.70	115.74	99.93
23.89	2	SLE R	i	11	151.11	2.01	2.01	2296.33	85.39	5871.35	73.72
23.89	4	SLE Q	i	11	151.11	2.01	2.01	1791.29	66.61	4580.03	57.51
25.43	2	SLE R	i	11	305.00	2.01	2.01	-3811.72	9745.96	141.73	122.37
25.43	4	SLE Q	i	11	305.00	2.01	2.01	-2982.12	7624.79	110.89	95.74
25.53	2	SLE R	i	11	315.00	2.01	2.01	-3811.72	9745.96	141.73	122.37
25.53	4	SLE Q	i	11	315.00	2.01	2.01	-2982.12	7624.79	110.89	95.74
25.83	2	SLE R	i	12	20.00	2.01	2.01	-3499.53	8947.74	130.13	112.35
25.83	4	SLE Q	i	12	20.00	2.01	2.01	-2744.28	7016.69	102.04	88.10
27.14	2	SLE R	i	12	151.11	2.01	2.01	2487.19	92.48	6359.34	79.85
27.14	4	SLE Q	i	12	151.11	2.01	2.01	1958.78	72.83	5008.28	62.89
28.68	2	SLE R	i	12	305.00	2.01	2.01	-3897.90	9966.32	144.94	125.14
28.68	4	SLE Q	i	12	305.00	2.01	2.01	-3047.82	7792.78	113.33	97.85
28.78	2	SLE R	i	12	315.00	2.01	2.01	-3897.90	9966.32	144.94	125.14
28.78	4	SLE Q	i	12	315.00	2.01	2.01	-3047.82	7792.78	113.33	97.85
29.08	2	SLE R	a	13	20.00	2.01	2.01	-3199.11	8179.61	118.95	102.71
29.08	4	SLE Q	a	13	20.00	2.01	2.01	-2592.46	6628.51	96.40	83.23
30.30	2	SLE R	i	13	142.00	2.01	2.01	3128.61	116.33	7999.34	100.44
30.30	4	SLE Q	i	13	142.00	2.01	2.01	2458.24	91.41	6285.32	78.92
31.82	2	SLE R	i	13	294.50	2.01	2.01	-3614.25	9241.05	134.39	116.03
31.82	4	SLE Q	i	13	294.50	2.01	2.01	-2859.74	7311.90	106.34	91.81
32.78	2	SLE R	i	14	65.00	8.04	6.03	-9081.37	2031.62	-908.64	72.40
32.78	4	SLE Q	i	14	65.00	8.04	6.03	-7216.21	1614.36	-722.02	57.53
34.36	2	SLE R	i	17	0.00	8.04	6.03	-9151.56	2047.32	-915.67	72.96
34.36	4	SLE Q	i	17	0.00	8.04	6.03	-7251.37	1622.23	-725.54	57.81
36.40	2	SLE R	i	18	136.53	2.01	2.01	3061.87	113.85	7828.71	98.30
36.40	4	SLE Q	i	18	136.53	2.01	2.01	2380.50	88.51	6086.56	76.43



Relazione di calcolo

38.06	2	SLE R i	18	303.00	2.01	2.01	-3628.34	9277.08	134.91	116.49
38.06	4	SLE Q i	18	303.00	2.01	2.01	-2898.34	7410.60	107.77	93.05
38.36	2	SLE R i	19	10.00	2.01	2.01	-4752.62	12151.70	176.72	152.58
38.36	4	SLE Q i	19	10.00	2.01	2.01	-3905.42	9985.53	145.22	125.38
38.46	2	SLE R i	19	20.00	2.01	2.01	-4752.62	12151.70	176.72	152.58
38.46	4	SLE Q i	19	20.00	2.01	2.01	-3905.42	9985.53	145.22	125.38
39.88	2	SLE R i	19	161.50	2.01	2.01	3418.25	127.10	8739.93	109.74
39.88	4	SLE Q i	19	161.50	2.01	2.01	2692.22	100.11	6883.57	86.43
41.29	2	SLE R a	19	303.00	2.01	2.01	-2669.58	6825.69	99.26	85.71
41.29	4	SLE Q a	19	303.00	2.01	2.01	-2116.28	5411.00	78.69	67.94
41.39	2	SLE R a	19	313.00	2.01	2.01	-2669.58	6825.69	99.26	85.71
41.39	4	SLE Q a	19	313.00	2.01	2.01	-2116.28	5411.00	78.69	67.94

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	InEl	Sez	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c off</sub> <cmq>	σ <sub>s</sub> <daN/cm<sup>q> <th>ε<sub>sm</sub></th> <th>Wk &lt;mm&gt;</th>	ε <sub>sm</sub>	Wk <mm>
26	0.12	4	SLE Q h	1	28	12.50	-2344.46	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5994.41	1.81	1.04
35	0.12	3	SLE F h	1	28	12.50	-2542.00	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6499.48	1.89	1.09
63	1.33	4	SLE Q i	1	28	133.50	2563.25	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6553.83	2.08	1.19
72	1.33	3	SLE F i	1	28	133.50	2740.40	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7006.75	2.04	1.17
99	3.05	4	SLE Q i	1	28	305.00	-3362.76	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8598.03	3.07	1.76
108	3.05	3	SLE F i	1	28	305.00	-3571.39	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9131.46	2.78	1.60
135	3.15	4	SLE Q i	1	28	315.00	-3362.76	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8598.03	3.07	1.76
144	3.15	3	SLE F i	1	28	315.00	-3571.39	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9131.46	2.78	1.60
171	3.45	4	SLE Q i	2	28	20.00	-2818.21	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7205.70	2.40	1.37
180	3.45	3	SLE F i	2	28	20.00	-3009.20	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7694.04	2.24	1.28
207	4.76	4	SLE Q i	2	28	151.11	1860.30	31.00	312.00	0.50	8.00	337.22	2.01	691.70	4756.49	1.39	0.79
216	4.76	3	SLE F i	2	28	151.11	1994.31	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5099.12	1.49	0.85
243	6.30	4	SLE Q i	2	28	305.00	-3153.66	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8063.40	2.81	1.61
252	6.30	3	SLE F i	2	28	305.00	-3372.27	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8622.36	2.54	1.45
279	6.40	4	SLE Q i	2	28	315.00	-3153.66	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8063.40	2.81	1.61
288	6.40	3	SLE F i	2	28	315.00	-3372.27	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8622.36	2.54	1.45
307	6.70	4	SLE Q a	3	28	20.00	-2808.44	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7180.73	2.39	1.37
316	6.70	3	SLE F a	3	28	20.00	-2998.42	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7666.47	2.23	1.28
351	8.37	4	SLE Q i	3	28	187.38	2418.85	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6184.62	1.90	1.09
360	8.37	3	SLE F i	3	28	187.38	2586.62	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6613.56	1.93	1.10
387	10.40	4	SLE Q i	4	37	70.00	-7082.95	29.29	156.00	0.50	12.80	197.83	8.04	875.00	1584.55	0.46	0.16
396	10.40	3	SLE F i	4	37	70.00	-7560.82	29.29	156.00	0.50	12.80	197.83	8.04	875.00	1691.45	0.49	0.17
423	11.98	4	SLE Q i	7	37	0.00	-7635.39	27.00	464.00	0.50	16.00	346.42	6.03	875.00	2251.46	0.66	0.39
432	11.98	3	SLE F i	7	37	0.00	-8151.32	27.00	464.00	0.50	16.00	346.42	6.03	875.00	2403.59	0.70	0.41
459	14.36	4	SLE Q i	8	28	165.56	2441.03	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6241.33	1.93	1.11
468	14.36	3	SLE F i	8	28	165.56	2612.99	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6680.99	1.95	1.12
495	15.68	4	SLE Q i	8	28	298.00	-2641.35	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6753.50	2.18	1.25
504	15.68	3	SLE F i	8	28	298.00	-2817.67	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7204.33	2.10	1.20
531	15.98	4	SLE Q i	9	28	10.00	-3433.13	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8777.96	3.16	1.81
540	15.98	3	SLE F i	9	28	10.00	-3651.87	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9337.25	2.88	1.65
567	16.08	4	SLE Q i	9	28	20.00	-3433.13	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8777.96	3.16	1.81
576	16.08	3	SLE F i	9	28	20.00	-3651.87	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9337.25	2.88	1.65
603	17.29	4	SLE Q i	9	28	141.11	1898.03	31.00	312.00	0.50	8.00	337.22	2.01	691.70	4852.95	1.41	0.81
612	17.29	3	SLE F i	9	28	141.11	2026.47	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5181.36	1.51	0.87
639	18.93	4	SLE Q i	9	28	305.00	-2491.11	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6369.36	1.99	1.14
648	18.93	3	SLE F i	9	28	305.00	-2691.36	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6881.38	2.00	1.15
675	19.23	4	SLE Q i	10	28	10.00	-3012.86	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7703.41	2.64	1.51
684	19.23	3	SLE F i	10	28	10.00	-3250.65	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8311.38	2.42	1.39
711	19.33	4	SLE Q i	10	28	20.00	-3012.86	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7703.41	2.64	1.51
720	19.33	3	SLE F i	10	28	20.00	-3250.65	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8311.38	2.42	1.39
747	20.75	4	SLE Q i	10	28	162.50	1890.91	31.00	312.00	0.50	8.00	337.22	2.01	691.70	4834.76	1.41	0.81
756	20.75	3	SLE F i	10	28	162.50	2019.83	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5164.37	1.50	0.86
783	22.18	4	SLE Q i	10	28	305.00	-3545.60	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9065.53	3.30	1.89
792	22.18	3	SLE F i	10	28	305.00	-3771.49	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9643.08	3.03	1.74
819	22.28	4	SLE Q i	10	28	315.00	-3545.60	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9065.53	3.30	1.89
828	22.28	3	SLE F i	10	28	315.00	-3771.49	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9643.08	3.03	1.74
855	22.58	4	SLE Q i	11	28	20.00	-3112.71	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7958.70	2.76	1.58
864	22.58	3	SLE F i	11	28	20.00	-3321.93	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8493.65	2.47	1.42
891	23.89	4	SLE Q i	11	28	151.11	1791.29	31.00	312.00	0.50	8.00	337.22	2.01	691.70	4580.03	1.33	0.76
900	23.89	3	SLE F i	11	28	151.11	1919.77	31.00	312.00	0.50	8.00	337.22	2.01	691.70	4908.54	1.43	0.82
927	25.43	4	SLE Q i	11	28	305.00	-2982.12	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7624.79	2.60	1.49
936	25.43	3	SLE F i	11	28	305.00	-3192.32	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8162.25	2.38	1.36
963	25.53	4	SLE Q i	11	28	315.00	-2982.12	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7624.79	2.60	1.49
972	25.53	3	SLE F i	11	28	315.00	-3192.32	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8162.25	2.38	1.36
999	25.83	4	SLE Q i	12	28	20.00	-2744.28	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7016.69	2.31	1.32
1008	25.83	3	SLE F i	12	28	20.00	-2937.18	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7509.91	2.19	1.25
1035	27.14	4	SLE Q i	12	28	151.11	1958.78	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5008.28	1.46	0.84
1044	27.14	3	SLE F i	12	28	151.11	2094.81	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5356.10	1.56	0.89
1071	28.68	4	SLE Q i	12	28	305.00	-3047.82	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7792.78	2.68	1.54
1080	28.68	3	SLE F i	12	28	305.00	-3260.73	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8337.15	2.43	1.39
1107	28.78	4	SLE Q i	12	28	315.00	-3047.82	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7792.78	2.68	1.54
1116	28.78	3	SLE F i	12	28	315.00	-3260.73	31.00	312.00	0.50	8.00	337.22	2.01	691.70	8337.15	2.43	1.39
1135	29.08	4	SLE Q a	13	28	20.00	-2592.46	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6628.51	2.12	1.21



Relazione di calcolo

1144	29.08	3	SLE F	a	13	28	20.00	-2766.55	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7073.62	2.06	1.18
1179	30.30	4	SLE Q	i	13	28	142.00	2458.24	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6285.32	1.95	1.12
1188	30.30	3	SLE F	i	13	28	142.00	2628.87	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6721.60	1.96	1.12
1552	31.82	4	SLE Q	i	13	28	294.50	-2859.74	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7311.90	2.45	1.40
1564	31.82	3	SLE F	i	13	28	294.50	-3059.00	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7821.37	2.28	1.31
1215	32.78	4	SLE Q	i	14	37	65.00	-7216.21	29.29	156.00	0.50	12.80	197.83	8.04	875.00	1614.36	0.47	0.16
1224	32.78	3	SLE F	i	14	37	65.00	-7701.92	29.29	156.00	0.50	12.80	197.83	8.04	875.00	1723.02	0.50	0.17
1251	34.36	4	SLE Q	i	17	37	0.00	-7251.37	29.29	156.00	0.50	12.80	197.83	8.04	875.00	1622.23	0.47	0.16
1260	34.36	3	SLE F	i	17	37	0.00	-7750.00	29.29	156.00	0.50	12.80	197.83	8.04	875.00	1733.77	0.50	0.17
1287	36.40	4	SLE Q	i	18	28	136.53	2380.50	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6086.56	1.85	1.06
1296	36.40	3	SLE F	i	18	28	136.53	2555.29	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6533.47	1.90	1.09
1323	38.06	4	SLE Q	i	18	28	303.00	-2898.34	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7410.60	2.50	1.43
1332	38.06	3	SLE F	i	18	28	303.00	-3078.34	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7870.82	2.29	1.31
1359	38.36	4	SLE Q	i	19	28	10.00	-3905.42	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9985.53	3.75	2.15
1368	38.36	3	SLE F	i	19	28	10.00	-4113.60	31.00	312.00	0.50	8.00	337.22	2.01	691.70	10517.80	3.46	1.98
1395	38.46	4	SLE Q	i	19	28	20.00	-3905.42	31.00	312.00	0.50	8.00	337.22	2.01	691.70	9985.53	3.75	2.15
1404	38.46	3	SLE F	i	19	28	20.00	-4113.60	31.00	312.00	0.50	8.00	337.22	2.01	691.70	10517.80	3.46	1.98
1431	39.88	4	SLE Q	i	19	28	161.50	2692.22	31.00	312.00	0.50	8.00	337.22	2.01	691.70	6883.57	2.24	1.28
1440	39.88	3	SLE F	i	19	28	161.50	2876.74	31.00	312.00	0.50	8.00	337.22	2.01	691.70	7355.37	2.14	1.23
1461	41.29	4	SLE Q	a	19	28	303.00	-2116.28	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5411.00	1.58	0.90
1471	41.29	3	SLE F	a	19	28	303.00	-2273.84	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5813.84	1.69	0.97
1499	41.39	4	SLE Q	a	19	28	313.00	-2116.28	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5411.00	1.58	0.90
1508	41.39	3	SLE F	a	19	28	313.00	-2273.84	31.00	312.00	0.50	8.00	337.22	2.01	691.70	5813.84	1.69	0.97

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	In	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.20	0.46	0.26	i	ø8/20 2 br.	5.03	1.00	10471.60	2.50	7224.30	30719.10	7224.30	0.690
1 SLU	0.46	2.79	2.33	i	ø8/20 2 br.	5.03	1.00	9876.99	2.50	7224.30	30719.10	7224.30	0.731
1 SLU	2.79	3.05	0.26	i	ø8/20 2 br.	5.03	1.00	11900.50	2.50	7224.30	30719.10	7224.30	0.607
1 SLU	3.45	3.71	0.26	i	ø8/20 2 br.	5.03	1.00	11355.50	2.50	7224.30	30719.10	7224.30	0.636
1 SLU	3.71	6.04	2.33	i	ø8/20 2 br.	5.03	1.00	9332.07	2.50	7224.30	30719.10	7224.30	0.774
1 SLU	6.04	6.30	0.26	i	ø8/20 2 br.	5.03	1.00	11016.50	2.50	7224.30	30719.10	7224.30	0.656
1 SLU	6.70	6.96	0.26	i	ø8/20 2 br.	5.03	1.00	11382.60	2.50	7224.30	30719.10	7224.30	0.635
1 SLU	6.96	9.44	2.48	i	ø8/20 2 br.	5.03	1.00	10143.50	2.50	7224.30	30719.10	7224.30	0.712
1 SLU	9.44	9.70	0.26	i	ø8/20 2 br.	5.03	1.00	12166.90	2.50	7224.30	30719.10	7224.30	0.594
1 SLU	9.70	10.40	0.70	i	ø8/20 2 br.	5.03	0.14	10406.10	1.82	15786.40	15786.40	15786.40	1.517
1 SLU	16.08	16.34	0.26	i	ø8/20 2 br.	5.03	1.00	11270.00	2.50	7224.30	30719.10	7224.30	0.641
1 SLU	16.34	18.67	2.33	i	ø8/20 2 br.	5.03	1.00	9246.58	2.50	7224.30	30719.10	7224.30	0.781
1 SLU	18.67	18.93	0.26	i	ø8/20 2 br.	5.03	1.00	11102.00	2.50	7224.30	30719.10	7224.30	0.651
1 SLU	19.33	19.59	0.26	i	ø8/20 2 br.	5.03	1.00	10974.20	2.50	7224.30	30719.10	7224.30	0.658
1 SLU	19.59	21.92	2.33	i	ø8/20 2 br.	5.03	1.00	9374.39	2.50	7224.30	30719.10	7224.30	0.771
1 SLU	21.92	22.18	0.26	i	ø8/20 2 br.	5.03	1.00	11397.80	2.50	7224.30	30719.10	7224.30	0.634
1 SLU	22.58	22.84	0.26	i	ø8/20 2 br.	5.03	1.00	11625.10	2.50	7224.30	30719.10	7224.30	0.621
1 SLU	22.84	25.17	2.33	i	ø8/20 2 br.	5.03	1.00	9601.63	2.50	7224.30	30719.10	7224.30	0.752
1 SLU	25.17	25.43	0.26	i	ø8/20 2 br.	5.03	1.00	10746.90	2.50	7224.30	30719.10	7224.30	0.672
1 SLU	25.83	26.09	0.26	i	ø8/20 2 br.	5.03	1.00	11377.80	2.50	7224.30	30719.10	7224.30	0.635
1 SLU	26.09	28.42	2.33	i	ø8/20 2 br.	5.03	1.00	9354.37	2.50	7224.30	30719.10	7224.30	0.772
1 SLU	28.42	28.68	0.26	i	ø8/20 2 br.	5.03	1.00	10994.20	2.50	7224.30	30719.10	7224.30	0.657
1 SLU	29.08	29.34	0.26	i	ø8/20 2 br.	5.03	1.00	11315.80	2.50	7224.30	30719.10	7224.30	0.638
1 SLU	29.34	31.87	2.53	i	ø8/20 2 br.	5.03	1.00	10602.80	2.50	7224.30	30719.10	7224.30	0.681
1 SLU	31.87	32.13	0.26	i	ø8/20 2 br.	5.03	1.00	12626.20	2.50	7224.30	30719.10	7224.30	0.572
1 SLU	32.13	32.78	0.65	i	ø8/20 2 br.	5.03	0.14	10554.20	1.82	15786.40	15786.40	15786.40	1.496
1 SLU	34.36	35.03	0.67	i	ø8/20 2 br.	5.03	0.14	11686.30	1.82	15786.40	15786.40	15786.40	1.351
1 SLU	35.03	35.29	0.26	i	ø8/20 2 br.	5.03	1.00	11763.60	2.50	7224.30	30719.10	7224.30	0.614
1 SLU	35.29	37.80	2.51	i	ø8/20 2 br.	5.03	1.00	9997.94	2.50	7224.30	30719.10	7224.30	0.723
1 SLU	37.80	38.06	0.26	i	ø8/20 2 br.	5.03	1.00	12021.40	2.50	7224.30	30719.10	7224.30	0.601

Travata n. 3009

Nodi: 341 342 343 344 -956 -957 -958 345 346 347 348 349 350 351 -959 -960 -961 352 353 354

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
25	R	70.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
26	R	30.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
27	R	70.00	20.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.12	1	SLU	1	12.50	2.01	2.01	2.01	2.01	-1769.75	-1623.35	0.917
1.43	1	SLU	1	142.50	2.01	2.01	2.01	2.01	2162.68	1623.35	0.751
3.05	1	SLU	1	305.00	2.01	2.01	2.01	2.01	-3307.25	-1623.35	0.491
3.45	1	SLU	2	20.00	2.01	2.01	2.01	2.01	-2835.81	-1623.35	0.572
4.72	1	SLU	2	146.67	2.01	2.01	2.01	2.01	1630.81	1623.35	0.995
6.30	1	SLU	2	305.00	2.01	2.01	2.01	2.01	-2690.02	-1623.35	0.603



# Relazione di calcolo

6.70	1	SLU	3	20.00	2.01	2.01	2.01	2.01	-2414.04	-1623.35	0.672
7.94	1	SLU	3	144.44	2.01	2.01	2.01	2.01	1724.77	1623.35	0.941
9.50	1	SLU	3	300.00	8.04	8.04	8.04	8.04	-2646.70	-5485.37	2.073
12.90	1	SLU	8	20.00	8.04	8.04	8.04	8.04	-2593.29	-5485.37	2.115
14.14	1	SLU	8	143.56	2.01	2.01	2.01	2.01	1693.89	1623.35	0.958
15.68	1	SLU	8	298.00	2.01	2.01	2.01	2.01	-2406.40	-1623.35	0.675
16.08	1	SLU	9	20.00	2.01	2.01	2.01	2.01	-2713.41	-1623.35	0.598
17.35	1	SLU	9	146.67	2.01	2.01	2.01	2.01	1655.64	1623.35	0.981
18.93	1	SLU	9	305.00	2.01	2.01	2.01	2.01	-2766.73	-1623.35	0.587
19.33	1	SLU	10	20.00	2.01	2.01	2.01	2.01	-2847.22	-1623.35	0.570
20.60	1	SLU	10	146.67	2.01	2.01	2.01	2.01	1650.45	1623.35	0.984
22.18	1	SLU	10	305.00	2.01	2.01	2.01	2.01	-2643.50	-1623.35	0.614
22.58	1	SLU	11	20.00	2.01	2.01	2.01	2.01	-2704.60	-1623.35	0.600
23.85	1	SLU	11	146.67	2.01	2.01	2.01	2.01	1649.09	1623.35	0.984
25.43	1	SLU	11	305.00	2.01	2.01	2.01	2.01	-2787.58	-1623.35	0.582
25.83	1	SLU	12	20.00	2.01	2.01	2.01	2.01	-2679.67	-1335.18	0.498
27.10	1	SLU	12	146.67	2.01	2.01	2.01	2.01	1612.00	1335.18	0.828
28.68	1	SLU	12	305.00	2.01	2.01	2.01	2.01	-2694.96	-1335.18	0.495
29.08	1	SLU	13	20.00	2.01	2.01	2.01	2.01	-2486.83	-1623.35	0.653
30.35	1	SLU	13	146.67	2.01	2.01	2.01	2.01	1781.49	1623.35	0.911
31.93	1	SLU	13	305.00	8.04	8.04	8.04	8.04	-2766.72	-5485.37	1.983
35.23	1	SLU	18	20.00	8.04	8.04	8.04	8.04	-2587.29	-5485.37	2.120
36.49	1	SLU	18	145.78	2.01	2.01	2.01	2.01	1760.87	1623.35	0.922
38.06	1	SLU	18	303.00	2.01	2.01	2.01	2.01	-2582.70	-1623.35	0.629
38.46	1	SLU	19	20.00	2.01	2.01	2.01	2.01	-2517.54	-1623.35	0.645
39.72	1	SLU	19	145.78	2.01	2.01	2.01	2.01	1780.63	1623.35	0.912
41.29	1	SLU	19	303.00	2.01	2.01	2.01	2.01	-2616.82	-1623.35	0.620

## Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	$\sigma_f$ sup <daN/cmq>	$\sigma_f$ inf <daN/cmq>	$\sigma_c$ <daN/cmq>
0.12	2	SLE R	1	12.50	2.01	2.01	-1232.50	3191.26	-50.89	47.89
0.12	4	SLE Q	1	12.50	2.01	2.01	-1075.56	2784.89	-44.41	41.79
1.43	2	SLE R	1	142.50	2.01	2.01	1512.03	-62.43	3915.01	58.75
1.43	4	SLE Q	1	142.50	2.01	2.01	1324.00	-54.66	3428.18	51.45
3.05	2	SLE R	1	305.00	2.01	2.01	-2316.75	5998.65	-95.65	90.02
3.05	4	SLE Q	1	305.00	2.01	2.01	-2036.63	5273.34	-84.09	79.14
3.45	2	SLE R	2	20.00	2.01	2.01	-1981.86	5131.54	-81.83	77.01
3.45	4	SLE Q	2	20.00	2.01	2.01	-1734.23	4490.35	-71.60	67.39
4.72	2	SLE R	2	146.67	2.01	2.01	1139.89	-47.06	2951.46	44.29
4.72	4	SLE Q	2	146.67	2.01	2.01	998.88	-41.24	2586.35	38.81
6.30	2	SLE R	2	305.00	2.01	2.01	-1880.94	4870.23	-77.66	73.09
6.30	4	SLE Q	2	305.00	2.01	2.01	-1649.99	4272.24	-68.12	64.12
6.70	2	SLE R	3	20.00	2.01	2.01	-1684.89	4362.61	-69.57	65.47
6.70	4	SLE Q	3	20.00	2.01	2.01	-1464.10	3790.93	-60.45	56.89
7.94	2	SLE R	3	144.44	2.01	2.01	1206.00	-49.79	3122.63	46.86
7.94	4	SLE Q	3	144.44	2.01	2.01	1054.82	-43.55	2731.20	40.99
9.50	2	SLE R	3	300.00	8.04	8.04	-1852.08	1270.07	-248.26	37.39
9.50	4	SLE Q	3	300.00	8.04	8.04	-1638.71	1123.75	-219.66	33.08
12.90	2	SLE R	8	20.00	8.04	8.04	-1815.72	1245.14	-243.38	36.66
12.90	4	SLE Q	8	20.00	8.04	8.04	-1610.55	1104.44	-215.88	32.51
14.14	2	SLE R	8	143.56	2.01	2.01	1184.12	-48.89	3066.00	46.01
14.14	4	SLE Q	8	143.56	2.01	2.01	1035.15	-42.74	2680.27	40.22
15.68	2	SLE R	8	298.00	2.01	2.01	-1679.11	4347.65	-69.33	65.25
15.68	4	SLE Q	8	298.00	2.01	2.01	-1456.28	3770.69	-60.13	56.59
16.08	2	SLE R	9	20.00	2.01	2.01	-1899.15	4917.37	-78.41	73.80
16.08	4	SLE Q	9	20.00	2.01	2.01	-1669.47	4322.68	-68.93	64.87
17.35	2	SLE R	9	146.67	2.01	2.01	1157.47	-47.79	2996.98	44.98
17.35	4	SLE Q	9	146.67	2.01	2.01	1014.65	-41.89	2627.17	39.43
18.93	2	SLE R	9	305.00	2.01	2.01	-1931.31	5000.64	-79.74	75.05
18.93	4	SLE Q	9	305.00	2.01	2.01	-1685.75	4364.83	-69.60	65.50
19.33	2	SLE R	10	20.00	2.01	2.01	-1988.92	5149.81	-82.12	77.29
19.33	4	SLE Q	10	20.00	2.01	2.01	-1740.51	4506.61	-71.86	67.63
20.60	2	SLE R	10	146.67	2.01	2.01	1153.80	-47.64	2987.48	44.83
20.60	4	SLE Q	10	146.67	2.01	2.01	1011.11	-41.75	2618.01	39.29
22.18	2	SLE R	10	305.00	2.01	2.01	-1848.99	4787.49	-76.34	71.85
22.18	4	SLE Q	10	305.00	2.01	2.01	-1621.81	4199.27	-66.96	63.02
22.58	2	SLE R	11	20.00	2.01	2.01	-1889.69	4892.87	-78.02	73.43
22.58	4	SLE Q	11	20.00	2.01	2.01	-1654.90	4284.96	-68.33	64.31
23.85	2	SLE R	11	146.67	2.01	2.01	1152.94	-47.60	2985.25	44.80
23.85	4	SLE Q	11	146.67	2.01	2.01	1010.50	-41.72	2616.44	39.27
25.43	2	SLE R	11	305.00	2.01	2.01	-1949.11	5046.73	-80.47	75.74
25.43	4	SLE Q	11	305.00	2.01	2.01	-1707.97	4422.38	-70.52	66.37
25.83	2	SLE R	12	20.00	2.01	2.01	-1868.98	6037.63	56.06	103.62
25.83	4	SLE Q	12	20.00	2.01	2.01	-1631.09	5269.17	48.92	90.44
27.10	2	SLE R	12	146.67	2.01	2.01	1124.07	33.72	3631.27	62.32
27.10	4	SLE Q	12	146.67	2.01	2.01	981.31	29.43	3170.06	54.41
28.68	2	SLE R	12	305.00	2.01	2.01	-1880.01	6073.28	56.39	104.24
28.68	4	SLE Q	12	305.00	2.01	2.01	-1642.59	5306.31	49.27	91.07



# Relazione di calcolo

29.08	2	SLE R	13	20.00	2.01	2.01	-1736.68	4496.70	-71.70	67.48
29.08	4	SLE Q	13	20.00	2.01	2.01	-1508.54	3905.99	-62.28	58.62
30.35	2	SLE R	13	146.67	2.01	2.01	1245.94	-51.44	3226.04	48.41
30.35	4	SLE Q	13	146.67	2.01	2.01	1090.41	-45.02	2823.35	42.37
31.93	2	SLE R	13	305.00	8.04	8.04	-1934.53	1326.61	-259.31	39.05
31.93	4	SLE Q	13	305.00	8.04	8.04	-1710.88	1173.24	-229.33	34.54
35.23	2	SLE R	18	20.00	8.04	8.04	-1809.81	1241.08	-242.59	36.54
35.23	4	SLE Q	18	20.00	8.04	8.04	-1612.81	1105.99	-216.19	32.56
36.49	2	SLE R	18	145.78	2.01	2.01	1231.29	-50.84	3188.12	47.85
36.49	4	SLE Q	18	145.78	2.01	2.01	1075.71	-44.41	2785.29	41.80
38.06	2	SLE R	18	303.00	2.01	2.01	-1803.38	4669.40	-74.46	70.08
38.06	4	SLE Q	18	303.00	2.01	2.01	-1558.78	4036.08	-64.36	60.57
38.46	2	SLE R	19	20.00	2.01	2.01	-1754.33	4542.41	-72.43	68.17
38.46	4	SLE Q	19	20.00	2.01	2.01	-1557.50	4032.75	-64.31	60.52
39.72	2	SLE R	19	145.78	2.01	2.01	1244.84	-51.40	3223.21	48.37
39.72	4	SLE Q	19	145.78	2.01	2.01	1091.17	-45.05	2825.31	42.40
41.29	2	SLE R	19	303.00	2.01	2.01	-1834.49	4749.95	-75.74	71.28
41.29	4	SLE Q	19	303.00	2.01	2.01	-1585.89	4106.26	-65.48	61.62

## Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
3	0.12	4	SLE Q	1	25	12.50	-1075.56	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2784.89	0.81	0.34
4	0.12	3	SLE F	1	25	12.50	-1120.32	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2900.80	0.84	0.36
7	1.43	4	SLE Q	1	25	142.50	1324.00	31.00	213.33	0.50	8.00	249.85	2.01	472.11	3428.18	1.00	0.42
8	1.43	3	SLE F	1	25	142.50	1377.73	31.00	213.33	0.50	8.00	249.85	2.01	472.11	3567.28	1.04	0.44
11	3.05	4	SLE Q	1	25	305.00	-2036.63	31.00	209.33	0.50	8.00	249.85	2.01	472.11	5273.34	1.80	0.77
12	3.05	3	SLE F	1	25	305.00	-2116.75	31.00	209.33	0.50	8.00	249.85	2.01	472.11	5480.80	1.60	0.68
15	3.45	4	SLE Q	2	25	20.00	-1734.23	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4490.35	1.42	0.60
16	3.45	3	SLE F	2	25	20.00	-1804.99	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4673.57	1.36	0.58
19	4.72	4	SLE Q	2	25	146.67	998.88	31.00	213.33	0.50	8.00	249.85	2.01	472.11	2586.35	0.75	0.32
20	4.72	3	SLE F	2	25	146.67	1039.16	31.00	213.33	0.50	8.00	249.85	2.01	472.11	2690.64	0.78	0.33
23	6.30	4	SLE Q	2	25	305.00	-1649.99	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4272.24	1.32	0.56
24	6.30	3	SLE F	2	25	305.00	-1715.98	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4443.11	1.29	0.55
27	6.70	4	SLE Q	3	25	20.00	-1464.10	31.00	209.33	0.50	8.00	249.85	2.01	472.11	3790.93	1.10	0.47
28	6.70	3	SLE F	3	25	20.00	-1527.40	31.00	209.33	0.50	8.00	249.85	2.01	472.11	3954.82	1.15	0.49
31	7.94	4	SLE Q	3	25	144.44	1054.82	31.00	213.33	0.50	8.00	249.85	2.01	472.11	2731.20	0.80	0.34
32	7.94	3	SLE F	3	25	144.44	1097.99	31.00	213.33	0.50	8.00	249.85	2.01	472.11	2842.97	0.83	0.35
35	9.50	4	SLE Q	3	25	300.00	-1638.71	29.29	104.67	0.50	12.80	124.38	8.04	413.48	1123.75	0.36	0.08
36	9.50	3	SLE F	3	25	300.00	-1699.49	29.29	104.67	0.50	12.80	124.38	8.04	413.48	1165.44	0.34	0.07
39	12.90	4	SLE Q	8	25	20.00	-1610.55	29.29	104.67	0.50	12.80	124.38	8.04	413.48	1104.44	0.35	0.07
40	12.90	3	SLE F	8	25	20.00	-1668.99	29.29	104.67	0.50	12.80	124.38	8.04	413.48	1144.52	0.33	0.07
43	14.14	4	SLE Q	8	25	143.56	1035.15	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2680.27	0.78	0.33
44	14.14	3	SLE F	8	25	143.56	1077.68	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2790.39	0.81	0.35
47	15.68	4	SLE Q	8	25	298.00	-1456.28	31.00	209.33	0.50	8.00	249.85	2.01	472.11	3770.69	1.10	0.47
48	15.68	3	SLE F	8	25	298.00	-1520.17	31.00	209.33	0.50	8.00	249.85	2.01	472.11	3936.11	1.15	0.49
51	16.08	4	SLE Q	9	25	20.00	-1669.47	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4322.68	1.34	0.57
52	16.08	3	SLE F	9	25	20.00	-1735.08	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4492.56	1.31	0.56
55	17.35	4	SLE Q	9	25	146.67	1014.65	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2627.17	0.77	0.33
56	17.35	3	SLE F	9	25	146.67	1055.45	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2732.82	0.80	0.34
59	18.93	4	SLE Q	9	25	305.00	-1685.75	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4364.83	1.36	0.58
60	18.93	3	SLE F	9	25	305.00	-1755.93	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4546.54	1.32	0.56
63	19.33	4	SLE Q	10	25	20.00	-1740.51	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4506.61	1.43	0.61
64	19.33	3	SLE F	10	25	20.00	-1811.43	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4690.24	1.37	0.58
67	20.60	4	SLE Q	10	25	146.67	1011.11	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2618.01	0.76	0.32
68	20.60	3	SLE F	10	25	146.67	1051.87	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2723.56	0.79	0.34
71	22.18	4	SLE Q	10	25	305.00	-1621.81	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4199.27	1.28	0.54
72	22.18	3	SLE F	10	25	305.00	-1686.78	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4367.49	1.27	0.54
75	22.58	4	SLE Q	11	25	20.00	-1654.90	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4284.96	1.32	0.56
76	22.58	3	SLE F	11	25	20.00	-1721.98	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4458.65	1.30	0.55
79	23.85	4	SLE Q	11	25	146.67	1010.50	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2616.44	0.76	0.32
80	23.85	3	SLE F	11	25	146.67	1051.20	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2721.81	0.79	0.34
83	25.43	4	SLE Q	11	25	305.00	-1707.97	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4422.38	1.39	0.59
84	25.43	3	SLE F	11	25	305.00	-1776.87	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4600.77	1.34	0.57
87	25.83	4	SLE Q	12	27	20.00	-1631.09	31.00	209.33	0.50	8.00	216.32	2.01	387.84	5269.17	1.93	0.71
88	25.83	3	SLE F	12	27	20.00	-1699.07	31.00	209.33	0.50	8.00	216.32	2.01	387.84	5488.75	1.72	0.63
91	27.10	4	SLE Q	12	27	146.67	981.31	31.00	209.33	0.50	8.00	216.32	2.01	387.84	3170.06	0.92	0.34
92	27.10	3	SLE F	12	27	146.67	1022.09	31.00	209.33	0.50	8.00	216.32	2.01	387.84	3301.82	0.96	0.35
95	28.68	4	SLE Q	12	27	305.00	-1642.59	31.00	209.33	0.50	8.00	216.32	2.01	387.84	5306.31	1.95	0.72
96	28.68	3	SLE F	12	27	305.00	-1710.43	31.00	209.33	0.50	8.00	216.32	2.01	387.84	5525.46	1.74	0.64
99	29.08	4	SLE Q	13	25	20.00	-1508.54	31.00	209.33	0.50	8.00	249.85	2.01	472.11	3905.99	1.14	0.48
100	29.08	3	SLE F	13	25	20.00	-1573.96	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4075.38	1.19	0.50
103	30.35	4	SLE Q	13	25	146.67	1090.41	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2823.35	0.82	0.35
104	30.35	3	SLE F	13	25	146.67	1134.82	31.00	209.33	0.50	8.00	249.85	2.01	472.11	2938.34	0.86	0.36
107	31.93	4	SLE Q	13	25	305.00	-1710.88	29.29	104.67	0.50	12.80	124.38	8.04	413.48	1173.24	0.39	0.08
108	31.93	3	SLE F	13	25	305.00	-1774.58	29.29	104.67	0.50	12.80	124.38	8.04	413.48	1216.92	0.35	0.07
111	35.23	4	SLE Q	18	25	20.00	-1612.81	29.29	104.67	0.50	12.80	124.38	8.04	413.48	1105.99	0.35	0.07
112	35.23	3	SLE F	18	25	20.00	-1668.94	29.29	104.67	0.50	12.80	124.38	8.04	413.48	1144.48	0.33	0.07
115	36.49	4	SLE Q	18	25	145.78	1075.71	31.00	213.33	0.50	8.00	249.85	2.01	472.11	2785.29	0.81	0.34



Relazione di calcolo

116	36.49	3	SLE F	18	25	145.78	1120.12	31.00	213.33	0.50	8.00	249.85	2.01	472.11	2900.27	0.84	0.36
119	38.06	4	SLE Q	18	25	303.00	-1558.78	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4036.08	1.20	0.51
120	38.06	3	SLE F	18	25	303.00	-1628.88	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4217.57	1.23	0.52
123	38.46	4	SLE Q	19	25	20.00	-1557.50	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4032.75	1.20	0.51
124	38.46	3	SLE F	19	25	20.00	-1613.97	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4178.97	1.22	0.52
127	39.72	4	SLE Q	19	25	145.78	1091.17	31.00	213.33	0.50	8.00	249.85	2.01	472.11	2825.31	0.82	0.35
128	39.72	3	SLE F	19	25	145.78	1135.06	31.00	213.33	0.50	8.00	249.85	2.01	472.11	2938.95	0.86	0.36
131	41.29	4	SLE Q	19	25	303.00	-1585.89	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4106.26	1.23	0.52
132	41.29	3	SLE F	19	25	303.00	-1656.70	31.00	209.33	0.50	8.00	249.85	2.01	472.11	4289.61	1.25	0.53

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.20	0.46	0.26	ø12/20 2 br.	11.31	0.70	5275.69	2.50	16254.70	21503.30	16254.70	3.081
1 SLU	0.46	2.79	2.33	ø6/20 2 br.	2.83	0.70	5562.77	2.50	4063.67	21503.30	4063.67	0.731
1 SLU	2.79	3.05	0.26	ø12/20 2 br.	11.31	0.70	6640.56	2.50	16254.70	21503.30	16254.70	2.448
1 SLU	3.45	3.71	0.26	ø12/20 2 br.	11.31	0.70	6009.28	2.50	16254.70	21503.30	16254.70	2.705
1 SLU	3.71	6.04	2.33	ø6/20 2 br.	2.83	0.70	4931.49	2.50	4063.67	21503.30	4063.67	0.824
1 SLU	6.04	6.30	0.26	ø12/20 2 br.	11.31	0.70	5906.97	2.50	16254.70	21503.30	16254.70	2.752
1 SLU	6.70	6.96	0.26	ø12/20 2 br.	11.31	0.70	5770.50	2.50	16254.70	21503.30	16254.70	2.817
1 SLU	6.96	9.24	2.28	ø6/20 2 br.	2.83	0.70	4858.90	2.50	4063.67	21503.30	4063.67	0.836
1 SLU	9.24	9.50	0.26	ø12/20 2 br.	11.31	0.70	5936.68	2.50	16254.70	21503.30	16254.70	2.738
1 SLU	16.08	16.34	0.26	ø12/20 2 br.	11.31	0.70	5939.41	2.50	16254.70	21503.30	16254.70	2.737
1 SLU	16.34	18.67	2.33	ø6/20 2 br.	2.83	0.70	4899.05	2.50	4063.67	21503.30	4063.67	0.829
1 SLU	18.67	18.93	0.26	ø12/20 2 br.	11.31	0.70	5976.83	2.50	16254.70	21503.30	16254.70	2.720
1 SLU	19.33	19.59	0.26	ø12/20 2 br.	11.31	0.70	6029.60	2.50	16254.70	21503.30	16254.70	2.696
1 SLU	19.59	21.92	2.33	ø6/20 2 br.	2.83	0.70	4951.83	2.50	4063.67	21503.30	4063.67	0.821
1 SLU	21.92	22.18	0.26	ø12/20 2 br.	11.31	0.70	5886.64	2.50	16254.70	21503.30	16254.70	2.761
1 SLU	22.58	22.84	0.26	ø12/20 2 br.	11.31	0.70	5929.00	2.50	16254.70	21503.30	16254.70	2.742
1 SLU	22.84	25.17	2.33	ø6/20 2 br.	2.83	0.70	4909.46	2.50	4063.67	21503.30	4063.67	0.828
1 SLU	25.17	25.43	0.26	ø12/20 2 br.	11.31	0.70	5987.24	2.50	16254.70	21503.30	16254.70	2.715
1 SLU	25.83	26.05	0.22	ø12/20 2 br.	11.31	0.70	5823.08	2.50	13083.00	17307.60	13083.00	2.247
1 SLU	26.05	28.46	2.41	ø6/20 2 br.	2.83	0.70	4942.51	2.50	3270.76	17307.60	3270.76	0.662
1 SLU	28.46	28.68	0.22	ø12/20 2 br.	11.31	0.70	5833.81	2.50	13083.00	17307.60	13083.00	2.243
1 SLU	29.08	29.34	0.26	ø12/20 2 br.	11.31	0.70	5859.92	2.50	16254.70	21503.30	16254.70	2.774
1 SLU	29.34	31.67	2.33	ø6/20 2 br.	2.83	0.70	4978.55	2.50	4063.67	21503.30	4063.67	0.816
1 SLU	31.67	31.93	0.26	ø12/20 2 br.	11.31	0.70	6056.33	2.50	16254.70	21503.30	16254.70	2.684
1 SLU	35.23	35.49	0.26	ø12/20 2 br.	11.31	0.70	5917.93	2.50	16254.70	21503.30	16254.70	2.747
1 SLU	35.49	37.80	2.31	ø6/20 2 br.	2.83	0.70	4840.15	2.50	4063.67	21503.30	4063.67	0.840
1 SLU	37.80	38.06	0.26	ø12/20 2 br.	11.31	0.70	5914.69	2.50	16254.70	21503.30	16254.70	2.748

Travata n. 3070

Nodi: 400 256 -7113 -256 -7101 245

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
3.171	SLU	5	-6.25	3.08	1.57	3.08	1.57	-4235.95	-6638.54	1.567	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ <sub>t</sub> sup <daN/cm>	σ <sub>t</sub> inf <daN/cm>	σ <sub>c</sub> <daN/cm>
3.172	SLE R	5	-6.25	3.08	1.57	-2947.10	1690.54	-429.27	37.15	
3.174	SLE Q	5	-6.25	3.08	1.57	-2124.20	1218.50	-309.41	26.77	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.174	SLE Q	5	16	-6.25	-2124.20	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1218.50	0.35	0.07	
4	3.173	SLE F	5	16	-6.25	-2358.90	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1353.13	0.39	0.08	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.18	1.21	1.76	ø6/16 2 br.	3.53	0.16	1285.97	2.50	15238.80	26714.30	15238.80	11.850
1 SLU	1.21	1.72	0.65	ø6/16 2 br.	3.53	0.16	1686.69	2.50	15238.80	26714.30	15238.80	9.035
1 SLU	1.92	3.17	1.25	ø6/16 2 br.	3.53	0.16	2605.47	2.50	15238.80	26714.30	15238.80	5.849

Travata n. 3084



Relazione di calcolo

Nodi: 402 258 -7090 -259 -7097 252

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.171	1	SLU	5	-6.25	3.08	3.08	3.08	3.08	-3989.59	-6639.53	1.664

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.172	2	SLE R	5	-6.25	3.08	3.08	-2777.81	1583.12	-368.02	32.38
3.174	4	SLE Q	5	-6.25	3.08	3.08	-1997.47	1138.39	-264.64	23.29

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.174	4	SLE Q	5	16	-6.25	-1997.47	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1138.39	0.33	0.07
4	3.173	3	SLE F	5	16	-6.25	-2219.85	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1265.12	0.37	0.07

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	-0.18	1.21	1.76	ø6/16 2 br.	3.53	0.16	1140.82	2.50	15238.80	26714.30	15238.80
1	SLU	1.21	1.72	0.65	ø6/16 2 br.	3.53	0.16	1943.22	2.50	15238.80	26714.30	15238.80
1	SLU	1.92	3.17	1.25	ø6/16 2 br.	3.53	0.16	2433.88	2.50	15238.80	26714.30	15238.80

Travata n. 4024

Nodi: 399 455 -1028 444

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.431	1	SLU	1	54.38	3.08	1.57	3.08	1.57	3680.46	3491.45	0.949
3.321	1	SLU	3	52.50	3.08	1.57	3.08	1.57	-1963.11	-6638.54	3.382

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ <sub>f</sub> sup	σ <sub>f</sub> inf	σ <sub>c</sub>
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.432	2	SLE R	1	54.38	3.08	1.57	2616.44	-393.18	2871.68	39.35
0.434	4	SLE Q	1	54.38	3.08	1.57	1999.31	-300.44	2194.34	30.07
3.322	2	SLE R	3	52.50	3.08	1.57	-1337.24	767.08	-194.78	16.86
3.324	4	SLE Q	3	52.50	3.08	1.57	-850.77	488.02	-123.92	10.72

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
7	0.434	4	SLE Q	1	16	54.38	1999.31	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2194.34	0.64	0.16
8	0.433	3	SLE F	1	16	54.38	2174.27	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2386.37	0.70	0.18
3	3.324	4	SLE Q	3	16	52.50	-850.77	28.00	94.00	0.50	14.00	119.66	3.08	140.00	488.02	0.14	0.03
4	3.323	3	SLE F	3	16	52.50	-989.69	28.00	94.00	0.50	14.00	119.66	3.08	140.00	567.72	0.17	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.22	1.43	1.53	ø6/16 2 br.	3.53	0.16	1072.21	2.50	15238.80	26714.30	15238.80
1	SLU	1.43	1.94	0.65	ø6/16 2 br.	3.53	0.16	1072.21	2.50	15238.80	26714.30	15238.80
1	SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2798.97	2.50	15238.80	26714.30	15238.80

Travata n. 4035

Nodi: 401 457 -1031 451

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
------	------	---	---	--------	--------	-----	------	-----	-----------	------	-----	-----	-----------



Relazione di calcolo

		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm>	<cm>	<cm>	<cm>	<daNm>	<daNm>	
0.431	SLU	1	54.38	3.08	1.57	3.08	1.57	3572.82	3491.45	0.977	
3.321	SLU	3	52.50	3.08	1.57	3.08	1.57	-2291.09	-6638.54	2.898	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	$\sigma_f$ sup	$\sigma_f$ inf	$\sigma_c$
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
0.432	SLE R	1	54.38	3.08	1.57	2532.52	-380.57	2779.57	38.08	
0.434	SLE Q	1	54.38	3.08	1.57	1917.59	-288.16	2104.65	28.84	
3.322	SLE R	3	52.50	3.08	1.57	-1576.03	904.05	-229.56	19.86	
3.324	SLE Q	3	52.50	3.08	1.57	-1047.79	601.04	-152.62	13.21	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
7	0.434	SLE	Q	1	16	54.38	1917.59	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2104.65	0.61	0.16
8	0.433	SLE	F	1	16	54.38	2091.43	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2295.45	0.67	0.17
3	3.324	SLE	Q	3	16	52.50	-1047.79	28.00	94.00	0.50	14.00	119.66	3.08	140.00	601.04	0.18	0.04
4	3.323	SLE	F	3	16	52.50	-1198.49	28.00	94.00	0.50	14.00	119.66	3.08	140.00	687.49	0.20	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctg $\theta$	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm>/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.22	1.43	1.53	ø6/16 2 br.	3.53	0.16	967.15	2.50	15238.80	26714.30	15238.80	15.756
1 SLU	1.43	1.94	0.65	ø6/12 2 br.	4.71	0.16	926.85	2.50	20318.30	26714.30	20318.30	21.922
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	3144.45	2.50	15238.80	26714.30	15238.80	4.846

Travate n. 5009 7009 9009 11009 13009 15009 17009 19009

5009 (a) Nodi: 541 542 543 544 545 546 547 548 549 550 551 552 553 554  
7009 (b) Nodi: 741 742 743 744 745 746 747 748 749 750 751 752 753 754  
9009 (c) Nodi: 941 942 943 944 945 946 947 948 949 950 951 952 953 954  
11009 (d) Nodi: 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154  
13009 (e) Nodi: 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354  
15009 (f) Nodi: 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554  
17009 (g) Nodi: 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754  
19009 (h) Nodi: 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
25R		70.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
26R		30.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
27R		70.00	20.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	In	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>					<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.121	SLU	g	1	12.50	6.66	5.84	6.66	5.84	-2665.88	-4630.28	1.737	
1.751	SLU	h	1	175.00	2.01	5.84	2.01	5.84	2427.00	4105.13	1.691	
3.051	SLU	a	1	305.00	6.66	5.84	6.66	5.84	-3227.23	-4630.28	1.435	
3.451	SLU	b	2	20.00	6.66	8.20	6.66	8.20	-2669.90	-4632.88	1.735	
4.721	SLU	g	2	146.67	2.01	5.91	2.01	5.91	1811.62	4144.83	2.288	
5.981	SLU	c	2	273.33	2.01	5.91	2.01	5.91	-2352.10	-1742.69	0.741	
6.301	SLU	c	2	305.00	7.45	7.92	7.45	7.92	-2856.44	-5117.25	1.791	
6.701	SLU	a	3	20.00	7.45	8.64	7.45	8.64	-2228.72	-5117.51	2.296	
7.941	SLU	h	3	144.44	2.01	7.10	2.01	7.10	1953.49	4896.84	2.507	
9.191	SLU	c	3	268.89	2.01	7.10	2.01	7.10	-2516.54	-1750.69	0.696	
9.501	SLU	c	3	300.00	5.09	7.10	5.09	7.10	-2999.86	-3660.14	1.220	
9.901	SLU	g	4	20.00	6.03	6.03	6.03	6.03	-631.57	-3933.07	6.227	
11.181	SLU	h	4	147.99	6.03	6.03	6.03	6.03	-244.36	-3933.07	16.096	
12.501	SLU	f	4	280.00	9.11	8.04	9.11	8.04	-805.35	-5803.46	7.206	
12.901	SLU	c	5	20.00	11.12	13.13	11.12	13.13	-2747.72	-7373.28	2.683	
14.141	SLU	g	5	143.56	2.01	7.10	2.01	7.10	1921.97	4896.84	2.548	
15.681	SLU	e	5	298.00	7.45	7.10	7.45	7.10	-2479.93	-5116.92	2.063	
16.081	SLU	a	6	20.00	7.45	5.91	7.45	5.91	-2775.00	-5116.33	1.844	
17.351	SLU	g	6	146.67	2.01	5.91	2.01	5.91	1771.24	4144.83	2.340	
18.931	SLU	b	6	305.00	6.66	5.91	6.66	5.91	-2710.08	-4630.36	1.709	
19.331	SLU	a	7	20.00	6.66	5.84	6.66	5.84	-2787.85	-4630.28	1.661	
20.601	SLU	g	7	146.67	2.01	5.84	2.01	5.84	1747.03	4105.13	2.350	
22.181	SLU	f	7	305.00	6.60	5.84	6.60	5.84	-2858.39	-4591.37	1.606	
22.581	SLU	a	8	20.00	6.60	5.84	6.60	5.84	-2682.95	-4591.37	1.711	



Relazione di calcolo

23.85	1	SLU	d	8	146.67	2.01	5.84	2.01	5.84	1738.97	4105.13	2.361
25.43	1	SLU	c	8	305.00	6.66	5.84	6.66	5.84	-2845.95	-4630.28	1.627
25.83	1	SLU	a	9	20.00	6.66	4.37	6.66	4.37	-2653.87	-3673.25	1.384
27.10	1	SLU	g	9	146.67	2.01	4.37	2.01	4.37	1707.04	2545.10	1.491
28.68	1	SLU	c	9	305.00	7.45	4.37	7.45	4.37	-2737.76	-4048.11	1.479
29.08	1	SLU	a	10	20.00	7.45	6.09	7.45	6.09	-2384.71	-5116.44	2.146
30.35	1	SLU	h	10	146.67	2.01	6.09	2.01	6.09	2028.47	4263.79	2.102
31.61	1	SLU	c	10	273.33	2.01	6.09	2.01	6.09	-2515.91	-1744.14	0.693
31.93	1	SLU	c	10	305.00	5.09	6.09	5.09	6.09	-3037.05	-3656.98	1.204
32.33	1	SLU	g	11	20.00	9.11	6.03	9.11	6.03	-627.53	-5794.17	9.233
33.58	1	SLU	h	11	145.00	6.03	6.03	6.03	6.03	-260.89	-3933.07	15.076
34.83	1	SLU	f	11	270.00	6.03	6.03	6.03	6.03	-769.15	-3933.07	5.114
35.23	1	SLU	c	12	20.00	11.12	9.11	11.12	9.11	-2734.18	-7375.19	2.697
36.49	1	SLU	g	12	145.78	2.01	5.09	2.01	5.09	2060.84	3628.42	1.761
38.06	1	SLU	e	12	303.00	8.17	5.09	8.17	5.09	-2566.61	-5563.09	2.167
38.46	1	SLU	a	13	20.00	8.17	5.09	8.17	5.09	-2406.96	-5563.09	2.311
39.72	1	SLU	h	13	145.78	2.01	5.09	2.01	5.09	2191.51	3628.42	1.656
41.29	1	SLU	c	13	303.00	5.09	5.09	5.09	5.09	-3234.00	-3652.88	1.130

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ <sub>t</sub> sup <daN/cmq>	σ <sub>t</sub> inf <daN/cmq>	σ <sub>c</sub> <daN/cmq>	
0.12	2	SLE	R	g	1	12.50	6.66	5.84	-1843.91	1513.47	-254.79	41.26
0.12	4	SLE	Q	g	1	12.50	6.66	5.84	-1556.82	1277.83	-215.13	34.83
1.75	2	SLE	R	h	1	175.00	2.01	5.84	1700.16	-256.56	1576.65	42.27
1.75	4	SLE	Q	f	1	175.00	2.01	5.84	1351.77	-203.99	1253.57	33.60
3.05	2	SLE	R	a	1	305.00	6.66	5.84	-2266.19	1860.08	-313.15	50.71
3.05	4	SLE	Q	a	1	305.00	6.66	5.84	-2000.85	1642.29	-276.48	44.77
3.45	2	SLE	R	b	2	20.00	6.66	8.20	-1863.88	1532.66	-241.39	40.44
3.45	4	SLE	Q	b	2	20.00	6.66	8.20	-1624.86	1336.12	-210.44	35.26
4.72	2	SLE	R	g	2	146.67	2.01	5.91	1265.63	-191.44	1161.72	31.34
4.72	4	SLE	Q	g	2	146.67	2.01	5.91	1107.76	-167.56	1016.82	27.43
5.98	2	SLE	R	c	2	273.33	2.01	5.91	-1647.80	4275.45	-57.58	63.31
5.98	4	SLE	Q	c	2	273.33	2.01	5.91	-1451.64	3766.48	-50.72	55.77
6.30	2	SLE	R	c	2	305.00	7.45	7.92	-2000.57	1477.40	-266.23	41.68
6.30	4	SLE	Q	c	2	305.00	7.45	7.92	-1761.29	1300.70	-234.38	36.70
6.70	2	SLE	R	a	3	20.00	7.45	8.64	-1551.97	1146.66	-202.67	32.03
6.70	4	SLE	Q	a	3	20.00	7.45	8.64	-1328.04	981.21	-173.43	27.41
7.94	2	SLE	R	h	3	144.44	2.01	7.10	1368.89	-213.72	1053.64	31.64
7.94	4	SLE	Q	f	3	144.44	2.01	7.10	1179.01	-184.07	907.49	27.25
9.19	2	SLE	R	c	3	268.89	2.01	7.10	-1768.18	4590.16	-58.99	67.74
9.19	4	SLE	Q	c	3	268.89	2.01	7.10	-1612.37	4185.68	-53.80	61.78
9.50	2	SLE	R	c	3	300.00	5.09	7.10	-2106.59	2242.37	-261.23	51.78
9.50	4	SLE	Q	c	3	300.00	5.09	7.10	-1912.53	2035.81	-237.17	47.01
9.90	2	SLE	R	g	4	20.00	6.03	6.03	-434.65	406.73	-122.19	15.41
9.90	4	SLE	Q	g	4	20.00	6.03	6.03	-418.19	391.33	-117.56	14.82
11.18	2	SLE	R	h	4	147.99	6.03	6.03	-166.72	156.01	-46.87	5.91
11.18	4	SLE	Q	b	4	147.99	6.03	6.03	133.32	-37.48	124.75	4.73
12.50	2	SLE	R	f	4	280.00	9.11	8.04	-565.91	356.02	-144.50	16.50
12.50	4	SLE	Q	f	4	280.00	9.11	8.04	-541.78	340.83	-138.34	15.80
12.90	2	SLE	R	c	5	20.00	11.12	13.13	-1929.06	970.39	-235.52	32.25
12.90	4	SLE	Q	c	5	20.00	11.12	13.13	-1755.09	882.87	-214.28	29.34
14.14	2	SLE	R	g	5	143.56	2.01	7.10	1343.38	-209.73	1034.01	31.05
14.14	4	SLE	Q	g	5	143.56	2.01	7.10	1170.45	-182.74	900.90	27.06
15.68	2	SLE	R	e	5	298.00	7.45	7.10	-1728.41	1275.72	-235.04	36.41
15.68	4	SLE	Q	e	5	298.00	7.45	7.10	-1455.14	1074.03	-197.88	30.65
16.08	2	SLE	R	a	6	20.00	7.45	5.91	-1943.97	1433.68	-273.04	41.63
16.08	4	SLE	Q	c	6	20.00	7.45	5.91	-1710.10	1261.20	-240.19	36.62
17.35	2	SLE	R	g	6	146.67	2.01	5.91	1239.58	-187.50	1137.82	30.69
17.35	4	SLE	Q	f	6	146.67	2.01	5.91	1092.67	-165.28	1002.96	27.05
18.93	2	SLE	R	b	6	305.00	6.66	5.91	-1887.45	1549.29	-260.35	42.19
18.93	4	SLE	Q	a	6	305.00	6.66	5.91	-1643.00	1348.64	-226.63	36.73
19.33	2	SLE	R	a	7	20.00	6.66	5.84	-1943.41	1595.14	-268.55	43.48
19.33	4	SLE	Q	a	7	20.00	6.66	5.84	-1693.80	1390.26	-234.05	37.90
20.60	2	SLE	R	g	7	146.67	2.01	5.84	1222.30	-184.45	1133.50	30.39
20.60	4	SLE	Q	g	7	146.67	2.01	5.84	1073.23	-161.96	995.26	26.68
22.18	2	SLE	R	f	7	305.00	6.60	5.84	-2010.49	1665.30	-277.32	45.15
22.18	4	SLE	Q	f	7	305.00	6.60	5.84	-1777.45	1472.27	-245.17	39.92
22.58	2	SLE	R	a	8	20.00	6.60	5.84	-1872.93	1551.36	-258.34	42.06
22.58	4	SLE	Q	a	8	20.00	6.60	5.84	-1637.10	1356.02	-225.81	36.77
23.85	2	SLE	R	d	8	146.67	2.01	5.84	1215.46	-183.42	1127.16	30.22
23.85	4	SLE	Q	d	8	146.67	2.01	5.84	1064.94	-160.70	987.58	26.47
25.43	2	SLE	R	c	8	305.00	6.66	5.84	-1994.02	1636.68	-275.54	44.62
25.43	4	SLE	Q	c	8	305.00	6.66	5.84	-1754.99	1440.49	-242.51	39.27
25.83	2	SLE	R	a	9	20.00	6.66	4.37	-1850.10	1910.90	-313.71	60.84
25.83	4	SLE	Q	a	9	20.00	6.66	4.37	-1612.37	1665.35	-273.40	53.02
27.10	2	SLE	R	g	9	146.67	2.01	4.37	1190.15	-171.63	1831.93	47.40
27.10	4	SLE	Q	g	9	146.67	2.01	4.37	1040.88	-150.11	1602.16	41.46
28.68	2	SLE	R	c	9	305.00	7.45	4.37	-1911.44	1775.22	-335.95	60.29



# Relazione di calcolo

28.68	4	SLE	Q	c	9	305.00	7.45	4.37	-1674.41	1555.09	-294.29	52.81
29.08	2	SLE	R	a	10	20.00	7.45	6.09	-1663.16	1226.74	-232.40	35.52
29.08	4	SLE	Q	a	10	20.00	7.45	6.09	-1424.32	1050.57	-199.02	30.42
30.35	2	SLE	R	h	10	146.67	2.01	6.09	1421.53	-216.45	1266.16	34.78
30.35	4	SLE	Q	g	10	146.67	2.01	6.09	1229.99	-187.29	1095.56	30.09
31.61	2	SLE	R	c	10	273.33	2.01	6.09	-1763.26	4575.42	-61.16	67.72
31.61	4	SLE	Q	c	10	273.33	2.01	6.09	-1606.92	4169.75	-55.73	61.71
31.93	2	SLE	R	c	10	305.00	5.09	6.09	-2127.87	2262.78	-271.88	52.91
31.93	4	SLE	Q	c	10	305.00	5.09	6.09	-1930.19	2052.57	-246.62	48.00
32.33	2	SLE	R	g	11	20.00	9.11	6.03	-432.22	272.32	-120.47	13.42
32.33	4	SLE	Q	g	11	20.00	9.11	6.03	-411.05	258.99	-114.57	12.76
33.58	2	SLE	R	h	11	145.00	6.03	6.03	-177.79	166.38	-49.98	6.30
33.58	4	SLE	Q	h	11	145.00	6.03	6.03	-138.01	129.15	-38.80	4.89
34.83	2	SLE	R	f	11	270.00	6.03	6.03	-540.11	505.42	-151.84	19.14
34.83	4	SLE	Q	f	11	270.00	6.03	6.03	-517.61	484.37	-145.51	18.35
35.23	2	SLE	R	c	12	20.00	11.12	9.11	-1913.36	961.52	-255.94	33.77
35.23	4	SLE	Q	c	12	20.00	11.12	9.11	-1748.46	878.66	-233.88	30.86
36.49	2	SLE	R	g	12	145.78	2.01	5.09	1442.40	-209.72	1527.05	37.82
36.49	4	SLE	Q	g	12	145.78	2.01	5.09	1250.34	-181.79	1323.72	32.78
38.06	2	SLE	R	e	12	303.00	8.17	5.09	-1790.85	1207.90	-260.04	37.48
38.06	4	SLE	Q	e	12	303.00	8.17	5.09	-1512.53	1020.18	-219.63	31.66
38.46	2	SLE	R	a	13	20.00	8.17	5.09	-1672.43	1128.03	-242.85	35.01
38.46	4	SLE	Q	a	13	20.00	8.17	5.09	-1499.46	1011.36	-217.73	31.39
39.72	2	SLE	R	h	13	145.78	2.01	5.09	1537.59	-223.56	1627.82	40.31
39.72	4	SLE	Q	e	13	145.78	2.01	5.09	1262.21	-183.52	1336.29	33.09
41.29	2	SLE	R	c	13	303.00	5.09	5.09	-2277.63	2419.55	-300.06	57.33
41.29	4	SLE	Q	c	13	303.00	5.09	5.09	-1924.03	2043.91	-253.48	48.43

## Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	InEl	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>		
23	0.12	4	SLE	Q	g	1	25	12.50	-1556.82	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1277.83	0.40	0.08
31	0.12	3	SLE	F	g	1	25	12.50	-1636.24	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1343.02	0.39	0.08
54	1.75	4	SLE	Q	f	1	25	175.00	1351.77	30.56	80.00	0.50	9.30	128.41	5.84	422.82	1253.57	0.37	0.08
64	1.75	3	SLE	F	h	1	25	175.00	1434.71	30.56	80.00	0.50	9.30	128.41	5.84	422.82	1330.48	0.39	0.08
81	3.05	4	SLE	Q	a	1	25	305.00	-2000.85	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1642.29	0.58	0.11
89	3.05	3	SLE	F	a	1	25	305.00	-2076.84	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1704.66	0.50	0.10
114	3.45	4	SLE	Q	b	2	25	20.00	-1624.86	30.64	62.80	0.50	8.83	117.56	6.66	424.36	1336.12	0.43	0.09
122	3.45	3	SLE	F	b	2	25	20.00	-1693.20	30.64	62.80	0.50	8.83	117.56	6.66	424.36	1392.32	0.41	0.08
151	4.72	4	SLE	Q	g	2	25	146.67	1107.76	30.25	91.43	0.50	9.89	131.23	5.91	422.21	1016.82	0.30	0.07
159	4.72	3	SLE	F	g	2	25	146.67	1152.47	30.25	91.43	0.50	9.89	131.23	5.91	422.21	1057.85	0.31	0.07
1273	5.98	4	SLE	Q	c	2	25	273.33	-1451.64	31.00	213.33	0.50	8.00	250.22	2.01	473.06	3766.48	1.10	0.47
1281	5.98	3	SLE	F	c	2	25	273.33	-1507.68	31.00	213.33	0.50	8.00	250.22	2.01	473.06	3911.89	1.14	0.48
179	6.30	4	SLE	Q	c	2	25	305.00	-1761.29	30.00	78.50	0.50	10.53	119.10	7.45	417.77	1300.70	0.43	0.09
187	6.30	3	SLE	F	c	2	25	305.00	-1829.65	30.00	78.50	0.50	10.53	119.10	7.45	417.77	1351.18	0.39	0.08
209	6.70	4	SLE	Q	a	3	25	20.00	-1328.04	30.00	78.50	0.50	10.53	119.24	7.45	418.75	981.21	0.29	0.06
217	6.70	3	SLE	F	a	3	25	20.00	-1392.41	30.00	78.50	0.50	10.53	119.24	7.45	418.75	1028.77	0.30	0.06
246	7.94	4	SLE	Q	f	3	25	144.44	1179.01	30.40	71.11	0.50	9.83	117.74	7.10	411.44	907.49	0.26	0.05
254	7.94	3	SLE	F	f	3	25	144.44	1227.38	30.40	71.11	0.50	9.83	117.74	7.10	411.44	944.72	0.28	0.06
1313	9.19	4	SLE	Q	c	3	25	268.89	-1612.37	31.00	213.33	0.50	8.00	250.32	2.01	473.30	4185.68	1.27	0.54
1322	9.19	3	SLE	F	c	3	25	268.89	-1656.21	31.00	213.33	0.50	8.00	250.32	2.01	473.30	4299.49	1.25	0.53
275	9.50	4	SLE	Q	c	3	25	300.00	-1912.53	30.00	125.60	0.50	10.80	152.72	5.09	436.94	2035.81	0.70	0.18
283	9.50	3	SLE	F	c	3	25	300.00	-1967.26	30.00	125.60	0.50	10.80	152.72	5.09	436.94	2094.06	0.61	0.16
311	9.90	4	SLE	Q	g	4	26	20.00	-418.19	27.00	110.00	0.50	16.00	97.96	6.03	165.73	391.33	0.11	0.02
319	9.90	3	SLE	F	g	4	26	20.00	-422.60	27.00	110.00	0.50	16.00	97.96	6.03	165.73	395.45	0.12	0.02
338	11.18	4	SLE	Q	b	4	26	147.99	133.32	27.00	116.00	0.50	16.00	97.96	6.03	165.73	124.75	0.04	0.01
352	11.18	3	SLE	F	h	4	26	147.99	-138.68	27.00	116.00	0.50	16.00	97.96	6.03	165.73	129.78	0.04	0.01
374	12.50	4	SLE	Q	f	4	26	280.00	-541.78	27.40	55.00	0.50	15.26	80.92	9.11	155.92	340.83	0.10	0.01
382	12.50	3	SLE	F	f	4	26	280.00	-548.74	27.40	55.00	0.50	15.26	80.92	9.11	155.92	345.21	0.10	0.01
403	12.90	4	SLE	Q	c	5	25	20.00	-1755.09	29.00	78.50	0.50	13.11	105.26	11.12	400.86	882.87	0.29	0.05
411	12.90	3	SLE	F	c	5	25	20.00	-1804.02	29.00	78.50	0.50	13.11	105.26	11.12	400.86	907.49	0.26	0.05
439	14.14	4	SLE	Q	g	5	25	143.56	1170.45	30.40	71.11	0.50	9.83	117.74	7.10	411.44	900.90	0.26	0.05
447	14.14	3	SLE	F	g	5	25	143.56	1219.83	30.40	71.11	0.50	9.83	117.74	7.10	411.44	938.90	0.27	0.05
469	15.68	4	SLE	Q	e	5	25	298.00	-1455.14	30.00	78.50	0.50	10.53	118.94	7.45	416.62	1074.03	0.32	0.07
477	15.68	3	SLE	F	e	5	25	298.00	-1534.13	30.00	78.50	0.50	10.53	118.94	7.45	416.62	1132.33	0.33	0.07
499	16.08	4	SLE	Q	c	6	25	20.00	-1710.10	30.00	78.50	0.50	10.53	118.69	7.45	414.88	1261.20	0.41	0.08
505	16.08	3	SLE	F	a	6	25	20.00	-1776.35	30.00	78.50	0.50	10.53	118.69	7.45	414.88	1310.06	0.38	0.08
534	17.35	4	SLE	Q	f	6	25	146.67	1092.67	30.25	91.43	0.50	9.89	131.23	5.91	422.21	1002.96	0.29	0.07
542	17.35	3	SLE	F	f	6	25	146.67	1134.50	30.25	91.43	0.50	9.89	131.23	5.91	422.21	1041.37	0.30	0.07
561	18.93	4	SLE	Q	a	6	25	305.00	-1643.00	30.64	62.80	0.50	8.83	117.14	6.66	421.26	1348.64	0.43	0.09
569	18.93	3	SLE	F	a	6	25	305.00	-1712.42	30.64	62.80	0.50	8.83	117.14	6.66	421.26	1405.61	0.41	0.08
593	19.33	4	SLE	Q	a	7	25	20.00	-1693.80	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1390.26	0.45	0.09
601	19.33	3	SLE	F	a	7	25	20.00	-1765.04	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1448.74	0.42	0.08
631	20.60	4	SLE	Q	g	7	25	146.67	1073.23	30.56	80.00	0.50	9.30	128.41	5.84	422.82	995.26	0.29	0.06
639	20.60	3	SLE	F	g	7	25	146.67	1115.82	30.56	80.00	0.50	9.30	128.41	5.84	422.82	1034.76	0.30	0.07
662	22.18	4	SLE	Q	f	7	25	305.00	-1777.45	30.83	57.09	0.50	8.40	115.36	6.60	421.71	1472.27	0.49	0.10
670	22.18	3	SLE	F	f	7	25	305.00	-1844.07	30.83	57.09	0.50	8.40	115.36	6.60	421.71	1527.45	0.44	0.09
689	22.58	4	SLE	Q	a	8	25	20.00	-1637.10	30.83	57.09	0.50	8.40	115.36	6.60	421.71	1356.02	0.43	0.09
697	22.58	3	SLE	F	a	8	25	20.00	-1704.45	30.83	57.09	0.50	8.40	115.36	6.60	421.71	1411.81	0.41	0.08



Relazione di calcolo

724	23.85	4	SLE Q	d	8	25	146.67	1064.94	30.56	80.00	0.50	9.30	128.41	5.84	422.82	987.58	0.29	0.06
732	23.85	3	SLE F	d	8	25	146.67	1107.95	30.56	80.00	0.50	9.30	128.41	5.84	422.82	1027.46	0.30	0.07
755	25.43	4	SLE Q	c	8	25	305.00	-1754.99	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1440.49	0.48	0.10
763	25.43	3	SLE F	c	8	25	305.00	-1823.35	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1496.59	0.44	0.09
785	25.83	4	SLE Q	a	9	27	20.00	-1612.37	30.64	62.80	0.50	8.83	106.66	6.66	342.23	1665.35	0.62	0.11
793	25.83	3	SLE F	a	9	27	20.00	-1680.28	30.64	62.80	0.50	8.83	106.66	6.66	342.23	1735.50	0.57	0.10
823	27.10	4	SLE Q	g	9	27	146.67	1040.88	30.57	106.33	0.50	8.97	134.87	4.37	359.01	1602.16	0.50	0.11
831	27.10	3	SLE F	g	9	27	146.67	1083.44	30.57	106.33	0.50	8.97	134.87	4.37	359.01	1667.67	0.49	0.11
851	28.68	4	SLE Q	c	9	27	305.00	-1674.41	30.00	78.50	0.50	10.53	107.64	7.45	336.73	1555.09	0.59	0.11
859	28.68	3	SLE F	c	9	27	305.00	-1742.17	30.00	78.50	0.50	10.53	107.64	7.45	336.73	1618.02	0.54	0.10
881	29.08	4	SLE Q	a	10	25	20.00	-1424.32	30.00	78.50	0.50	10.53	118.73	7.45	415.16	1050.57	0.31	0.06
889	29.08	3	SLE F	a	10	25	20.00	-1492.94	30.00	78.50	0.50	10.53	118.73	7.45	415.16	1101.19	0.32	0.06
919	30.35	4	SLE Q	g	10	25	146.67	1229.99	30.25	90.57	0.50	10.21	130.93	6.09	420.42	1095.56	0.32	0.07
927	30.35	3	SLE F	g	10	25	146.67	1280.27	30.25	90.57	0.50	10.21	130.93	6.09	420.42	1140.34	0.33	0.07
1357	31.61	4	SLE Q	c	10	25	273.33	-1606.92	31.00	213.33	0.50	8.00	250.24	2.01	473.10	4169.75	1.26	0.54
1369	31.61	3	SLE F	c	10	25	273.33	-1650.92	31.00	213.33	0.50	8.00	250.24	2.01	473.10	4283.91	1.25	0.53
947	31.93	4	SLE Q	c	10	25	305.00	-1930.19	30.00	125.60	0.50	10.80	152.48	5.09	435.79	2052.57	0.70	0.18
955	31.93	3	SLE F	c	10	25	305.00	-1985.96	30.00	125.60	0.50	10.80	152.48	5.09	435.79	2111.87	0.62	0.16
983	32.33	4	SLE Q	g	11	26	20.00	-411.05	27.40	55.00	0.50	15.26	80.41	9.11	152.86	258.99	0.08	0.01
991	32.33	3	SLE F	g	11	26	20.00	-416.84	27.40	55.00	0.50	15.26	80.41	9.11	152.86	262.63	0.08	0.01
1022	33.58	4	SLE Q	h	11	26	145.00	-138.01	27.00	116.00	0.50	16.00	97.96	6.03	165.73	129.15	0.04	0.01
1030	33.58	3	SLE F	h	11	26	145.00	-148.10	27.00	116.00	0.50	16.00	97.96	6.03	165.73	138.59	0.04	0.01
1052	34.83	4	SLE Q	f	11	26	270.00	-517.61	27.00	110.00	0.50	16.00	97.96	6.03	165.73	484.37	0.14	0.02
1060	34.83	3	SLE F	f	11	26	270.00	-524.06	27.00	110.00	0.50	16.00	97.96	6.03	165.73	490.40	0.14	0.02
1081	35.23	4	SLE Q	c	12	25	20.00	-1748.46	29.00	78.50	0.50	13.11	104.56	11.12	394.94	878.66	0.29	0.05
1089	35.23	3	SLE F	c	12	25	20.00	-1794.87	29.00	78.50	0.50	13.11	104.56	11.12	394.94	901.98	0.26	0.05
1117	36.49	4	SLE Q	g	12	25	145.78	1250.34	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1323.72	0.39	0.10
1125	36.49	3	SLE F	g	12	25	145.78	1304.92	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1381.50	0.40	0.10
1147	38.06	4	SLE Q	e	12	25	303.00	-1512.53	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1020.18	0.32	0.06
1155	38.06	3	SLE F	e	12	25	303.00	-1593.14	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1074.55	0.31	0.06
1175	38.46	4	SLE Q	a	13	25	20.00	-1499.46	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1011.36	0.31	0.06
1183	38.46	3	SLE F	a	13	25	20.00	-1549.24	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1044.94	0.30	0.06
1211	39.72	4	SLE Q	e	13	25	145.78	1262.21	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1336.29	0.39	0.10
1219	39.72	3	SLE F	e	13	25	145.78	1312.43	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1389.45	0.40	0.10
1241	41.29	4	SLE Q	c	13	25	303.00	-1924.03	30.00	125.60	0.50	10.80	152.22	5.09	434.57	2043.91	0.70	0.18
1249	41.29	3	SLE F	c	13	25	303.00	-2024.32	30.00	125.60	0.50	10.80	152.22	5.09	434.57	2150.45	0.63	0.16

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	In	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.20	0.46	0.26	g	ø12/20 2 br.	11.31	0.70	5903.68	2.50	16254.70	21503.30	16254.70	2.753
1 SLU	0.46	2.79	2.33	a	ø6/20 2 br.	2.83	0.70	5483.88	2.50	4063.67	21503.30	4063.67	0.741
1 SLU	2.79	3.05	0.26	a	ø12/20 2 br.	11.31	0.70	6561.65	2.50	16254.70	21503.30	16254.70	2.477
1 SLU	3.45	3.71	0.26	b	ø12/20 2 br.	11.31	0.70	5906.50	2.50	16254.70	21503.30	16254.70	2.752
1 SLU	3.71	6.04	2.33	g	ø6/20 2 br.	2.83	0.70	5043.52	2.50	4063.67	21503.30	4063.67	0.806
1 SLU	6.04	6.30	0.26	g	ø12/20 2 br.	11.31	0.70	6121.29	2.50	16254.70	21503.30	16254.70	2.655
1 SLU	6.70	6.96	0.26	e	ø12/20 2 br.	11.31	0.70	5705.01	2.50	16254.70	21503.30	16254.70	2.849
1 SLU	6.96	9.24	2.28	c	ø6/20 2 br.	2.83	0.70	5095.55	2.50	4063.67	21503.30	4063.67	0.797
1 SLU	9.24	9.50	0.26	c	ø12/20 2 br.	11.31	0.70	6173.33	2.50	16254.70	21503.30	16254.70	2.633
1 SLU	9.90	10.16	0.26	a	ø12/20 2 br.	11.31	0.30	1166.30	1.76	11467.00	11467.00	11467.00	9.832
1 SLU	10.16	12.24	2.08	f	ø6/20 2 br.	2.83	0.30	1021.71	2.50	4063.67	9215.72	4063.67	3.977
1 SLU	12.24	12.50	0.26	f	ø12/20 2 br.	11.31	0.30	1256.02	1.76	11467.00	11467.00	11467.00	9.130
1 SLU	12.90	13.16	0.26	c	ø12/20 2 br.	11.31	0.70	5979.59	2.50	16254.70	21503.30	16254.70	2.718
1 SLU	13.16	15.42	2.26	c	ø6/20 2 br.	2.83	0.70	4901.81	2.50	4063.67	21503.30	4063.67	0.829
1 SLU	15.42	15.68	0.26	e	ø12/20 2 br.	11.31	0.70	5938.98	2.50	16254.70	21503.30	16254.70	2.737
1 SLU	16.08	16.34	0.26	a	ø12/20 2 br.	11.31	0.70	5982.85	2.50	16254.70	21503.30	16254.70	2.717
1 SLU	16.34	18.67	2.33	f	ø6/20 2 br.	2.83	0.70	4912.65	2.50	4063.67	21503.30	4063.67	0.827
1 SLU	18.67	18.93	0.26	f	ø12/20 2 br.	11.31	0.70	5990.43	2.50	16254.70	21503.30	16254.70	2.713
1 SLU	19.33	19.59	0.26	a	ø12/20 2 br.	11.31	0.70	5985.20	2.50	16254.70	21503.30	16254.70	2.716
1 SLU	19.59	21.92	2.33	f	ø6/20 2 br.	2.83	0.70	5020.97	2.50	4063.67	21503.30	4063.67	0.809
1 SLU	21.92	22.18	0.26	f	ø12/20 2 br.	11.31	0.70	6098.74	2.50	16254.70	21503.30	16254.70	2.665
1 SLU	22.58	22.84	0.26	a	ø12/20 2 br.	11.31	0.70	5913.75	2.50	16254.70	21503.30	16254.70	2.749
1 SLU	22.84	25.17	2.33	f	ø6/20 2 br.	2.83	0.70	4996.09	2.50	4063.67	21503.30	4063.67	0.813
1 SLU	25.17	25.43	0.26	f	ø12/20 2 br.	11.31	0.70	6073.86	2.50	16254.70	21503.30	16254.70	2.676
1 SLU	25.83	26.05	0.22	b	ø12/20 2 br.	11.31	0.70	5803.68	2.50	13083.00	17307.60	13083.00	2.254
1 SLU	26.05	28.46	2.41	e	ø6/20 2 br.	2.83	0.70	5011.77	2.50	3270.76	17307.60	3270.76	0.653
1 SLU	28.46	28.68	0.22	e	ø12/20 2 br.	11.31	0.70	5903.07	2.50	13083.00	17307.60	13083.00	2.216
1 SLU	29.08	29.34	0.26	g	ø12/20 2 br.	11.31	0.70	5840.40	2.50	16254.70	21503.30	16254.70	2.783
1 SLU	29.34	31.67	2.33	c	ø6/20 2 br.	2.83	0.70	5159.02	2.50	4063.67	21503.30	4063.67	0.788
1 SLU	31.67	31.93	0.26	c	ø12/20 2 br.	11.31	0.70	6236.79	2.50	16254.70	21503.30	16254.70	2.606
1 SLU	32.33	32.59	0.26	a	ø12/20 2 br.	11.31	0.30	1148.52	1.76	11467.00	11467.00	11467.00	9.984
1 SLU	32.59	34.57	1.98	f	ø6/20 2 br.	2.83	0.30	973.31	2.50	4063.67	9215.72	4063.67	4.175
1 SLU	34.57	34.83	0.26	f	ø12/20 2 br.	11.31	0.30	1207.62	1.76	11467.00	11467.00	11467.00	9.496
1 SLU	35.23	35.49	0.26	c	ø12/20 2 br.	11.31	0.70	6027.80	2.50	16254.70	21503.30	16254.70	2.697
1 SLU	35.49	37.80	2.31	e	ø6/20 2 br.	2.83	0.70	4996.91	2.50	4063.67	21503.30	4063.67	0.813
1 SLU	37.80	38.06	0.26	e	ø12/20 2 br.	11.31	0.70	6074.68	2.50	16254.70	21503.30	16254.70	2.676
1 SLU	38.46	38.72	0.26	a	ø12/20 2 br.	11.31	0.70	5791.57	2.50	16254.70	21503.30	16254.70	2.807
1 SLU	38.72	41.03	2.31	c	ø6/20 2 br.	2.83	0.70	5296.02	2.50	4063.67	21503.30	4063.67	0.767
1 SLU	41.03	41.29	0.26	c	ø12/20 2 br.	11.31	0.70	6373.79	2.50	16254.70	21503.30	16254.70	2.550



Travata n. 5070

Nodi: 600 456 -1030 445

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.24	1	SLU	1	30.46	3.08	1.57	3.08	1.57	3703.90	3491.45	0.943
3.32	1	SLU	3	52.50	3.08	1.57	3.08	1.57	-2497.80	-6638.54	2.658

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_r$ sup	$\sigma_r$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.24	2	SLE R	1	30.46	3.08	1.57	2631.76	-395.48	2888.49	39.58
0.24	4	SLE Q	1	30.46	3.08	1.57	2020.36	-303.60	2217.44	30.38
3.32	2	SLE R	3	52.50	3.08	1.57	-1704.05	977.49	-248.21	21.48
3.32	4	SLE Q	3	52.50	3.08	1.57	-1130.46	648.46	-164.66	14.25

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
7	0.24	4	SLE Q	1	16	30.46	2020.36	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2217.44	0.65	0.16
8	0.24	3	SLE F	1	16	30.46	2192.01	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2405.84	0.70	0.18
3	3.32	4	SLE Q	3	16	52.50	-1130.46	28.00	94.00	0.50	14.00	119.66	3.08	140.00	648.46	0.19	0.04
4	3.32	3	SLE F	3	16	52.50	-1293.98	28.00	94.00	0.50	14.00	119.66	3.08	140.00	742.27	0.22	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.18	1.21	1.76	ø6/16 2 br.	3.53	0.16	1137.41	2.50	15238.80	26714.30	15238.80	13.398
1 SLU	1.21	1.72	0.65	ø6/16 2 br.	3.53	0.16	1939.81	2.50	15238.80	26714.30	15238.80	7.856
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	3410.07	2.50	15238.80	26714.30	15238.80	4.469

Travata n. 5084

Nodi: 602 458 -1033 452

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.24	1	SLU	1	30.46	3.08	1.57	3.08	1.57	3605.40	3491.45	0.968
3.32	1	SLU	3	52.50	3.08	1.57	3.08	1.57	-2631.59	-6638.54	2.523

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	$\sigma_r$ sup	$\sigma_r$ inf	$\sigma_c$
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.24	2	SLE R	1	30.46	3.08	1.57	2554.60	-383.88	2803.80	38.42
0.24	4	SLE Q	1	30.46	3.08	1.57	1945.93	-292.42	2135.76	29.26
3.32	2	SLE R	3	52.50	3.08	1.57	-1803.30	1034.42	-262.67	22.73
3.32	4	SLE Q	3	52.50	3.08	1.57	-1208.88	693.45	-176.09	15.24

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
7	0.24	4	SLE Q	1	16	30.46	1945.93	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2135.76	0.62	0.16
8	0.24	3	SLE F	1	16	30.46	2117.30	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2323.84	0.68	0.17
3	3.32	4	SLE Q	3	16	52.50	-1208.88	28.00	94.00	0.50	14.00	119.66	3.08	140.00	693.45	0.20	0.04
4	3.32	3	SLE F	3	16	52.50	-1378.23	28.00	94.00	0.50	14.00	119.66	3.08	140.00	790.59	0.23	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.18	1.21	1.76	ø6/16 2 br.	3.53	0.16	1160.15	2.50	15238.80	26714.30	15238.80	13.135
1 SLU	1.21	1.72	0.65	ø6/16 2 br.	3.53	0.16	1812.51	2.50	15238.80	26714.30	15238.80	8.408



1	SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	3568.46	2.50	15238.80	26714.30	15238.80	4.270
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Verifiche e armature pilastri

Simbologia

$\Delta_{sm}$	=Distanza media tra le fessure
$\Phi_{eq}$	=Diametro equivalente delle barre
$\alpha$	=Angolo asse neutro a rottura
$\epsilon_r$	=Deformazione nell'acciaio (*1000)
$\epsilon_{sm}$	=Deformazione unitaria media dell'armatura (*1000)
$\lambda$	=Snellezza massima
$\lambda^*$	=Snellezza limite
$\mu\Phi$	=Valore di progetto della duttilità di curvatura
$\sigma_c$	=Tensione nel calcestruzzo
$\sigma_f$	=Tensione nel ferro
$\sigma_s$	=Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$	=Area di calcestruzzo efficace
$A_s$	=Area complessiva dei ferri nell'area di calcestruzzo efficace
AfC	=Area di ferro compressa
AfT	=Area di ferro tesa
B	=Base
Br <sub>y</sub>	=Numero bracci in dir. Y locale
Br <sub>z</sub>	=Numero bracci in dir. Z locale
CC	=Combinazione delle condizioni di carico elementari e = eccentricità aggiuntiva in caso di compressione o pressoflessione $\alpha$ = amplificazione per gerarchia delle resistenze TG = taglio da gerarchia delle resistenze
Cf	=Copriferro
El	=Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
Fcd	=Resistenza di calcolo a compressione del calcestruzzo
Fcd (Tag)	=Resistenza di calcolo a compressione del calcestruzzo per verifica a taglio
Fcm	=Resistenza media
Fctd	=Resistenza di calcolo a trazione del calcestruzzo
Fctm	=Resistenza media a trazione
Fyd	=Resistenza di calcolo dell'acciaio
Fyd (Tag)	=Resistenza di calcolo dell'acciaio per verifica a taglio
Fym	=Tensione media di snervamento
H	=Altezza
K <sub>2</sub>	=Coefficiente per distribuzione deformazioni
M	=Momento flettente
M'ydy,s	=Momento resistente massimo in campo sostanzialmente elastico (ridotto per stabilità) intorno all'asse Y
M'ydz,s	=Momento resistente massimo in campo sostanzialmente elastico (ridotto per stabilità) intorno all'asse Z
MRd	=Momento resistente allo stato limite ultimo
MRdy	=Momento resistente allo stato limite ultimo intorno all'asse Y
MRdy,s	=Momento resistente allo stato limite ultimo (ridotto per stabilità) intorno all'asse Y
MRdz	=Momento resistente allo stato limite ultimo intorno all'asse Z
MRdz,s	=Momento resistente allo stato limite ultimo (ridotto per stabilità) intorno all'asse Z
My	=Momento flettente intorno all'asse Y
My ver.	=Momento flettente di verifica intorno all'asse Y
Mz	=Momento flettente intorno all'asse Z
Mz ver.	=Momento flettente di verifica intorno all'asse Z
N	=Sforzo normale
Nu	=Sforzo normale ultimo
Sez.	=Numero della sezione
Sic.	=Sicurezza
Staff.	=Staffatura adottata
TCC	=Tipo di combinazione di carico SLU = Stato limite ultimo SLE R = Stato limite d'esercizio, combinazione rara SLE F = Stato limite d'esercizio, combinazione frequente SLE Q = Stato limite d'esercizio, combinazione quasi permanente
Tipo	=Tipologia L = Sezione a L Ldx = L destra R = Rettangolare Rc = Rettangolare cava T = Sezione a T
VRcd <sub>y</sub>	=Taglio ultimo lato calcestruzzo in dir. Y
VRcd <sub>z</sub>	=Taglio ultimo lato calcestruzzo in dir. Z
VRsd <sub>y</sub>	=Taglio ultimo lato armatura in dir. Y
VRsd <sub>z</sub>	=Taglio ultimo lato armatura in dir. Z
Vrd <sub>y</sub>	=Taglio resistente in dir. Y
Vrd <sub>z</sub>	=Taglio resistente in dir. Z
Vsdu <sub>y</sub>	=Taglio agente in dir. Y
Vsdu <sub>z</sub>	=Taglio agente in dir. Z
Wk	=Ampiezza caratteristica delle fessure
X	=Coordinata progressiva rispetto al nodo iniziale
X0	=Coordinata progressiva (dal nodo iniziale) dell'inizio del tratto
X1	=Coordinata progressiva (dal nodo iniziale) della fine del tratto
Xg	=Coordinata progressiva (dal primo nodo) in cui viene effettuato il progetto/verifica
bw <sub>y</sub>	=Larghezza membratura resistente al taglio in dir. Y
bw <sub>z</sub>	=Larghezza membratura resistente al taglio in dir. Z
c	=Ricoprimento dell'armatura
ctg $\theta$ <sub>y</sub>	=Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Y
ctg $\theta$ <sub>z</sub>	=Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Z
d <sub>y</sub>	=Altezza utile per resistenza al taglio in dir. Y
d <sub>z</sub>	=Altezza utile per resistenza al taglio in dir. Z
l <sub>0</sub>	=Lunghezza libera di inflessione
s	=Distanza massima tra le barre

Pilastrata n. 7

Nodi: 7 307 507 707 907 1107 1307 1507 1707 1907

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<daN/cm<sup>2</sup>>	<daN/cm<sup>2</sup>>	<daN/cm<sup>2</sup>>	<daN/cm<sup>2</sup>>	<daN/cm<sup>2</sup>>	<daN/cm<sup>2</sup>>	<daN/cm<sup>2</sup>>	<daN/cm<sup>2</sup>>
49	R	25.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
9	R	25.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94



Relazione di calcolo

9	R	25.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
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Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>x</sub>	Sic.
15.50	1(e)	SLU	6	9	0.00	-39999.40	233.17	-799.99	1982.48	1982.48	-39999.40	-2190.53	5300.43	101.25	2.65	2.683
15.50	1(e)	SLU	6	9	0.00	-39999.40	233.17	799.99	1982.48	1982.48	-39999.40	2056.66	5030.05	75.94	2.71	2.542
18.26	1(e)	SLU	6	9	276.00	-39214.50	-88.10	-784.29	-1955.42	-1955.42	-39214.50	-2046.68	-5014.88	255.94	2.77	2.571
18.50	1(e)	SLU	7	9	0.00	-30192.60	384.40	603.85	2113.42	2113.42	-30192.60	1466.63	4900.98	80.16	3.81	2.327
18.50	1(e)	SLU	7	9	0.00	-30192.60	384.40	603.85	2113.42	2113.42	-30192.60	1466.63	4900.98	80.16	3.81	2.327
21.26	1(e)	SLU	7	9	276.00	-29407.70	-78.91	-588.15	-2098.04	-2098.04	-29407.70	-1330.47	-4891.24	261.56	4.08	2.326
21.50	1	SLU	8	9	0.00	-20048.30	641.17	641.17	2190.12	2190.12	-20048.30	1284.92	4282.37	82.97	5.62	1.959
21.50	1	SLU	8	9	0.00	-20048.30	641.17	641.17	2190.12	2190.12	-20048.30	1160.78	3781.47	82.97	5.98	1.733
24.26	1(e)	SLU	8	9	276.00	-19263.40	-262.18	-385.27	-2118.50	-2118.50	-19263.40	-719.42	-3744.76	265.78	6.74	1.771
24.50	1	SLU	9	9	0.00	-9543.41	337.96	337.96	2406.44	2406.44	-9543.41	385.00	3003.83	88.59	10.41	1.246
24.50	1	SLU	9	9	0.00	-9543.41	337.96	337.96	2406.44	2406.44	-9543.41	385.00	3003.83	88.59	10.41	1.246
27.26	1	SLU	9	9	276.00	-8758.53	306.64	306.64	-2665.12	-2665.12	-8758.53	388.77	-2938.63	271.41	10.72	1.105

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	1	3.50	48.50	36.32	---	1	3.50	48.50	36.32	---	1	3.50	48.50	36.32	---	2	3.00	41.57	32.09
---	2	3.00	41.57	32.09	---	2	3.00	41.57	32.09	---	3	3.00	41.57	34.15	---	3	3.00	41.57	34.15
---	3	3.00	41.57	34.15	---	4	3.00	41.57	36.74	---	4	3.00	41.57	36.74	---	4	3.00	41.57	36.74
---	5	3.00	41.57	40.12	---	5	3.00	41.57	40.12	---	5	3.00	41.57	40.12	---				

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	α <grad>	ε <sub>x</sub>	Sic.
0.00	1(e)	SLU	1	49	0.00	-86474.10	215.02	1729.48	660.09	1729.48	-238706.00	5742.84	5825.14	76.64	1.79	2.760
0.00	1(e)	SLU	1	49	0.00	-86474.10	215.02	1729.48	660.09	1729.48	-238706.00	5742.84	5825.14	76.64	1.79	2.760
3.26	1(e)	SLU	1	49	326.00	-85149.70	-294.85	-1702.99	-1131.34	-1702.99	-238706.00	-5759.98	-5831.00	256.64	1.83	2.803
3.50	1(e)	SLU	2	9	0.00	-77319.30	311.18	1546.39	1414.18	1546.39	-184385.00	4405.79	4258.39	63.28	1.35	2.385
3.50	1(e)	SLU	2	9	0.00	-77319.30	311.18	1546.39	1414.18	1546.39	-184385.00	4405.79	4258.39	63.28	1.35	2.385
6.26	1(e)	SLU	2	9	276.00	-76534.40	-129.79	-1530.69	-1406.68	-1530.69	-184385.00	-4414.86	-4270.99	243.28	1.37	2.409
6.50	1(e)	SLU	3	9	0.00	-68328.20	265.19	1366.56	1561.51	1561.51	-184385.00	4007.67	4591.06	66.09	1.57	2.699
6.50	1(e)	SLU	3	9	0.00	-68328.20	265.19	1366.56	1561.51	1561.51	-184385.00	4007.67	4591.06	66.09	1.57	2.699
9.26	1(e)	SLU	3	9	276.00	-67543.40	-176.08	-1350.87	-1566.15	-1566.15	-184385.00	-4017.66	-4604.65	246.09	1.59	2.730
9.50	1(e)	SLU	4	9	0.00	-59071.00	247.81	-1181.42	1734.61	1734.61	-59071.00	-3275.85	5046.67	109.69	1.84	2.867
9.50	1(e)	SLU	4	9	0.00	-59071.00	247.81	-1181.42	1734.61	1734.61	-59071.00	-2859.20	4205.62	106.88	1.76	2.423
12.26	1(e)	SLU	4	9	276.00	-58286.10	-195.63	1165.72	-1721.94	-1721.94	-58286.10	2868.64	-4210.00	286.88	1.79	2.450
12.50	1(e)	SLU	5	9	0.00	-49608.90	225.57	-992.18	1848.95	1848.95	-49608.90	-2488.78	4310.55	104.06	2.17	2.372
12.50	1(e)	SLU	5	9	0.00	-49608.90	225.57	-992.18	1848.95	1848.95	-49608.90	-2488.78	4310.55	104.06	2.17	2.372
15.26	1(e)	SLU	5	9	276.00	-48824.10	-164.15	976.48	-1813.06	-1813.06	-48824.10	2472.60	-4318.42	284.06	2.20	2.416

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
0.00	2	SLE	R	1	49	0.00	-62096.40	465.24	180.86	0.00	16.09	712.55
0.00	4	SLE	Q	1	49	0.00	-55330.00	403.49	187.62	0.00	16.09	635.62
0.00	2	SLE	R	1	49	0.00	-62096.40	465.24	180.86	0.00	16.09	712.55
0.00	4	SLE	Q	1	49	0.00	-55330.00	403.49	187.62	0.00	16.09	635.62
3.26	2	SLE	R	1	49	326.00	-61077.70	-795.51	-232.71	0.00	16.09	757.79
3.26	4	SLE	Q	1	49	326.00	-54311.20	-691.02	-249.39	0.00	16.09	675.18
3.50	2	SLE	R	2	9	0.00	-55497.80	994.23	249.77	0.00	16.09	991.65
3.50	4	SLE	Q	2	9	0.00	-49311.10	859.27	253.95	0.00	16.09	881.28
3.50	2	SLE	R	2	9	0.00	-55497.80	994.23	249.77	0.00	16.09	991.65
3.50	4	SLE	Q	2	9	0.00	-49311.10	859.27	253.95	0.00	16.09	881.28
6.26	2	SLE	R	2	9	276.00	-54894.00	-989.14	-112.64	0.00	16.09	960.35
6.26	4	SLE	Q	2	9	276.00	-48707.40	-851.12	-134.42	0.00	16.09	852.19
6.50	2	SLE	R	3	9	0.00	-49046.30	1098.22	220.47	0.00	16.09	921.73
6.50	4	SLE	Q	3	9	0.00	-43496.50	938.20	231.99	0.00	16.09	815.92
6.50	2	SLE	R	3	9	0.00	-49046.30	1098.22	220.47	0.00	16.09	921.73
6.50	4	SLE	Q	3	9	0.00	-43496.50	938.20	231.99	0.00	16.09	815.92
9.26	2	SLE	R	3	9	276.00	-48442.50	-1101.46	-151.21	0.00	16.09	903.11
9.26	4	SLE	Q	3	9	276.00	-42892.70	-938.66	-167.31	0.00	16.09	797.47
9.50	2	SLE	R	4	9	0.00	-42403.80	1220.34	209.99	0.00	16.09	856.03
9.50	4	SLE	Q	4	9	0.00	-37531.40	1035.15	220.55	0.00	16.09	753.97
9.50	2	SLE	R	4	9	0.00	-42403.80	1220.34	209.99	0.00	12.06	906.08
9.50	4	SLE	Q	4	9	0.00	-37531.40	1035.15	220.55	0.00	12.06	797.62
12.26	2	SLE	R	4	9	276.00	-41800.00	-1211.44	-168.66	0.00	12.06	888.87
12.26	4	SLE	Q	4	9	276.00	-36927.70	-1025.42	-181.19	0.00	12.06	780.54
12.50	2	SLE	R	5	9	0.00	-35615.00	1300.42	195.88	0.00	12.06	825.07
12.50	4	SLE	Q	5	9	0.00	-31453.00	1097.70	207.99	0.00	12.06	723.08
12.50	2	SLE	R	5	9	0.00	-35615.00	1300.42	195.88	0.00	12.06	825.07
12.50	4	SLE	Q	5	9	0.00	-31453.00	1097.70	207.99	0.00	12.06	723.08
15.26	2	SLE	R	5	9	276.00	-35011.20	-1274.78	-148.05	0.00	12.06	803.11
15.26	4	SLE	Q	5	9	276.00	-30849.30	-1074.96	-163.09	0.00	12.06	702.23
15.50	2	SLE	R	6	9	0.00	-28720.70	1395.90	203.08	0.00	12.06	756.03
15.50	4	SLE	Q	6	9	0.00	-25288.60	1176.51	215.16	0.00	12.06	658.49



Relazione di calcolo

15.50	2	SLE R	6	9	0.00	-28720.70	1395.90	203.08	0.00	8.04	65.60	781.25
15.50	4	SLE Q	6	9	0.00	-25288.60	1176.51	215.16	0.00	8.04	56.95	681.61
18.26	2	SLE R	6	9	276.00	-28117.00	-1376.52	-94.03	0.00	8.04	62.66	747.44
18.26	4	SLE Q	6	9	276.00	-24684.80	-1160.43	-117.48	0.00	8.04	54.32	650.98
18.50	2	SLE R	7	9	0.00	-21684.90	1487.68	315.24	4.02	4.02	67.34	747.64
18.50	4	SLE Q	7	9	0.00	-19001.60	1251.70	310.03	2.01	6.03	57.71	646.70
18.50	2	SLE R	7	9	0.00	-21684.90	1487.68	315.24	4.02	4.02	67.34	747.64
18.50	4	SLE Q	7	9	0.00	-19001.60	1251.70	310.03	2.01	6.03	57.71	646.70
21.26	2	SLE R	7	9	276.00	-21081.10	-1477.15	-89.36	4.02	4.02	62.02	686.27
21.26	4	SLE Q	7	9	276.00	-18397.90	-1241.22	-114.09	4.02	4.02	53.07	593.03
21.50	2	SLE R	8	9	0.00	-14405.50	1541.78	502.45	4.02	4.02	77.45	750.36
21.50	4	SLE Q	8	9	0.00	-12513.40	1296.21	460.86	4.02	4.02	65.84	645.41
21.50	2	SLE R	8	9	0.00	-14405.50	1541.78	502.45	3.08	3.08	82.91	864.51
21.50	4	SLE Q	8	9	0.00	-12513.40	1296.21	460.86	3.08	3.08	70.36	700.35
24.26	2	SLE R	8	9	276.00	-13801.70	-1492.18	-222.05	3.08	3.08	72.35	746.35
24.26	4	SLE Q	8	9	276.00	-11909.60	-1258.31	-220.11	3.08	3.08	61.71	613.29
24.50	2	SLE R	9	9	0.00	-6867.72	1690.04	282.52	3.08	3.08	91.91	2038.99
24.50	4	SLE Q	9	9	0.00	-5820.54	1389.82	285.16	3.08	3.08	77.51	1675.50
24.50	2	SLE R	9	9	0.00	-6867.72	1690.04	282.52	3.08	3.08	91.91	2038.99
24.50	4	SLE Q	9	9	0.00	-5820.54	1389.82	285.16	3.08	3.08	77.51	1675.50
27.26	2	SLE R	9	9	276.00	-6263.97	-1871.61	182.26	3.08	3.08	97.45	2406.24
27.26	4	SLE Q	9	9	276.00	-5216.79	-1508.12	84.17	3.08	3.08	75.86	1882.43

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
24.50	4	SLE Q	9	9	0.00	-5820.54	285.16	1389.82	39.00	258.00	0.50	14.00	229.69	1.54	166.79	1675.50	0.49	0.19
24.50	3	SLE F	9	9	0.00	-6093.29	284.51	1472.35	39.00	258.00	0.50	14.00	231.71	1.54	169.02	1777.78	0.52	0.20
24.50	4	SLE Q	9	9	0.00	-5820.54	285.16	1389.82	39.00	258.00	0.50	14.00	229.69	1.54	166.79	1675.50	0.49	0.19
24.50	3	SLE F	9	9	0.00	-6093.29	284.51	1472.35	39.00	258.00	0.50	14.00	231.71	1.54	169.02	1777.78	0.52	0.20
27.26	4	SLE Q	9	9	276.00	-5216.79	84.17	-1508.12	39.00	258.00	0.50	14.00	166.67	3.08	194.99	1882.43	0.69	0.20
27.26	3	SLE F	9	9	276.00	-5489.54	112.05	-1605.60	39.00	258.00	0.50	14.00	165.84	3.08	193.17	2024.82	0.65	0.18

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<mm>	<mm>						<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.54	ø8/20	2	21	SLU	0.50	0.20	549.52	2.50	7083.33	10678.60	7083.33	0.25	0.45	156.40	2.11	13433.40	13433.40	13433.40	12.890	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.20	549.52	2.50	7083.33	10747.50	7083.33	0.25	0.45	156.40	2.12	13486.30	13486.30	13486.30	12.890	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.20	549.52	2.50	7083.33	11022.80	7083.33	0.25	0.45	156.40	2.15	13695.80	13695.80	13695.80	12.890	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.20	1022.05	1.43	3046.77	3046.77	3046.77	0.25	0.30	159.77	1.09	3460.64	3460.64	3460.64	2.981	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.20	1022.05	1.45	3087.75	3087.75	3087.75	0.25	0.30	159.77	1.11	3518.35	3518.35	3518.35	3.021	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.20	1022.05	1.53	3246.53	3246.53	3246.53	0.25	0.30	159.77	1.18	3740.29	3740.29	3740.29	3.176	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.20	1133.21	2.43	5154.04	5154.04	5154.04	0.25	0.30	159.88	1.98	6297.43	6297.43	6297.43	4.548	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.20	1133.21	2.44	5178.38	5178.38	5178.38	0.25	0.30	159.88	1.99	6329.33	6329.33	6329.33	4.570	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.20	1133.21	2.48	5274.59	5274.59	5274.59	0.25	0.30	159.88	2.03	6455.34	6455.34	6455.34	4.655	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.20	1252.37	2.50	5312.50	7930.69	5312.50	0.25	0.30	160.67	2.50	7955.54	8483.07	7955.54	4.242	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.20	1252.38	2.50	5312.50	7971.49	5312.50	0.25	0.30	160.67	2.50	7955.54	8526.72	7955.54	4.242	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.20	1252.38	2.50	5312.50	8134.69	5312.50	0.25	0.30	160.67	2.50	7955.54	8701.28	7955.54	4.242	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.20	1326.81	2.50	5312.50	10881.90	5312.50	0.25	0.30	141.20	2.50	7955.54	11639.80	7955.54	4.004	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.20	1326.81	2.50	5312.50	10922.70	5312.50	0.25	0.30	141.20	2.50	7955.54	11683.40	7955.54	4.004	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.20	1326.81	2.50	5312.50	11085.90	5312.50	0.25	0.30	141.20	2.50	7955.54	11858.00	7955.54	4.004	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.20	1426.77	2.50	5312.50	13177.40	5312.50	0.25	0.30	116.40	2.50	7955.54	14095.20	7955.54	3.723	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.20	1426.77	2.50	5312.50	13177.40	5312.50	0.25	0.30	116.40	2.50	7955.54	14095.20	7955.54	3.723	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.20	1426.77	2.50	5312.50	13177.40	5312.50	0.25	0.30	116.40	2.50	7955.54	14095.20	7955.54	3.723	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.20	1525.89	2.50	5312.50	13177.40	5312.50	0.25	0.30	167.87	2.50	7955.54	14095.20	7955.54	3.482	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.20	1525.89	2.50	5312.50	13177.40	5312.50	0.25	0.30	167.87	2.50	7955.54	14095.20	7955.54	3.482	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.20	1525.89	2.50	5312.50	13177.40	5312.50	0.25	0.30	167.87	2.50	7955.54	14095.20	7955.54	3.482	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.20	1561.10	2.50	5312.50	13043.10	5312.50	0.25	0.30	327.30	2.50	7955.54	13951.60	7955.54	3.403	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.20	1561.10	2.50	5312.50	13026.80	5312.50	0.25	0.30	327.30	2.50	7955.54	13934.10	7955.54	3.403	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.20	1561.10	2.50	5312.50	12961.50	5312.50	0.25	0.30	327.30	2.50	7955.54	13864.30	7955.54	3.403	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.20	1837.52	2.50	5312.50	11732.50	5312.50	0.25	0.30	11.35	2.50	7955.54	12549.70	7955.54	2.891	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.20	1837.52	2.50	5312.50	11716.20	5312.50	0.25	0.30	11.35	2.50	7955.54	12532.20	7955.54	2.891	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.20	1837.52	2.50	5312.50	11650.90	5312.50	0.25	0.30	11.35	2.50	7955.54	12462.40	7955.54	2.891	

Pilastrata n. 8

Nodi: 8 308 508 708 908 1108 1308 1508 1708 1908

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1R		40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
9.50	1(e)	SLU	4	10	0.00	-129913.00	-2897.94	-2897.94	1639.81	2598.26	-260434.00	-9074.22	8121.52	144.84	1.25	2.005
9.50	1(e)	SLU	4	10	0.00	-129913.00	-2897.94	-2897.94	1639.81	2598.26	-246024.00	-8385.46	7399.35	142.03	1.13	1.894
12.26	1(e)	SLU	4	10	276.00	-128657.00	2721.81	2721.81	-1601.64	-2573.15	-246024.00	8181.46	-7703.61	320.62	1.16	1.912
12.50	1(e)	SLU	5	10	0.00	-107491.00	-2861.12	-2861.12	1882.04	2149.82	-246024.00	-9530.70	7169.61	144.84	1.58	2.289
12.50	1(e)	SLU	5	10	0.00	-107491.00	-2861.12	-2861.12	1882.04	2149.82	-246024.00	-9530.70	7169.61	144.84	1.58	2.289
15.26	1(e)	SLU	5	10	276.00	-106235.00	2796.21	2796.21	-1885.78	-2124.70	-246024.00	9559.80	-7183.56	324.84	1.61	2.316
18.50	1	SLU	7	7	0.00	-63855.60	-2674.80	-2674.80	1557.60	1557.60	-63855.60	-6982.66	4026.42	137.81	1.98	2.604
18.50	1	SLU	7	7	0.00	-63855.60	-2674.80	-2674.80	1557.60	1557.60	-63855.60	-6982.66	4026.42	137.81	1.98	2.604
21.26	1	SLU	7	7	276.00	-62913.70	3020.18	3020.18	-1492.32	-1492.32	-62913.70	7310.32	-3687.17	320.62	2.03	2.403



Relazione di calcolo

21.501	1	SLU	8	7	0.00	-42528.80	-2399.05	-2399.05	1639.86	1639.86	-42528.80	-6135.04	4105.45	135.00	2.93	2.540
21.501	1	SLU	8	7	0.00	-42528.80	-2399.05	-2399.05	1639.86	1639.86	-42528.80	-5626.17	3814.55	135.00	2.98	2.339
24.261	1	SLU	8	7	276.00	-41587.00	3453.90	3453.90	-1593.92	-1593.92	-41587.00	6442.55	-2966.55	323.44	3.15	1.865
24.501	1	SLU	9	7	0.00	-21410.20	-1991.46	-1991.46	1593.75	1593.75	-21410.20	-4415.90	3547.54	130.78	4.50	2.221
24.501	1	SLU	9	7	0.00	-21410.20	-1991.46	-1991.46	1593.75	1593.75	-21410.20	-4415.90	3547.54	130.78	4.50	2.221
27.261	1	SLU	9	7	276.00	-20468.30	4620.25	4620.25	-1608.39	-1608.39	-20468.30	5572.88	-1875.09	337.50	6.09	1.202

Dati per verifiche di stabilità

Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*
<m>		<m>			<m>		<m>			<m>		<m>			<m>		<m>		
---	1	3.50	30.31	30.24	---	1	3.50	30.31	30.24	---	1	3.50	30.31	30.24	---	2	3.00	29.69	26.95
---	2	3.00	29.69	26.95	---	2	3.00	29.69	26.95	---	3	3.00	29.69	28.89	---	3	3.00	29.69	28.89
---	3	3.00	29.69	28.89	---	6	3.00	34.64	33.47	---	6	3.00	34.64	33.47	---	6	3.00	34.64	33.47

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy, s	MRdz, s	α	ε <sub>r</sub>	Sic.
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
0.001	(e)	SLU	1	1	0.00	-199120.00	-2176.33	-3982.40	604.15	3982.40	-347346.00	-11340.00	11909.10	122.34	1.02	1.744
0.001	(e)	SLU	1	1	0.00	-199120.00	-2176.33	-3982.40	604.15	3982.40	-347346.00	-11340.00	11909.10	122.34	1.02	1.744
3.261	(e)	SLU	1	1	326.00	-197001.00	3497.77	3940.02	-812.03	-3940.02	-347346.00	11945.60	-11693.50	303.75	1.05	1.763
3.501	(e)	SLU	2	10	0.00	-175177.00	-2205.52	-3503.54	1053.58	3503.54	-260434.00	-6241.44	6022.33	143.44	0.45	1.487
3.501	(e)	SLU	2	10	0.00	-175177.00	-2205.52	-3503.54	1053.58	3503.54	-260434.00	-6241.44	6022.33	143.44	0.45	1.487
6.261	(e)	SLU	2	10	276.00	-173921.00	2851.99	3478.42	-1103.03	-3478.42	-260434.00	6313.43	-6087.29	323.44	0.47	1.497
6.501	(e)	SLU	3	10	0.00	-152461.00	-2776.94	-3049.23	1372.47	3049.23	-260434.00	-7487.84	7120.47	143.44	0.84	1.708
6.501	(e)	SLU	3	10	0.00	-152461.00	-2776.94	-3049.23	1372.47	3049.23	-260434.00	-7487.84	7120.47	143.44	0.84	1.708
9.261	(e)	SLU	3	10	276.00	-151206.00	2695.81	3024.11	-1370.67	-3024.11	-260434.00	7328.19	-7458.69	322.03	0.87	1.722
15.501	(e)	SLU	6	7	0.00	-85347.00	-2716.29	-2716.29	1179.99	1706.94	-195325.00	-6679.67	4215.36	132.19	1.44	2.289
15.501	(e)	SLU	6	7	0.00	-85347.00	-2716.29	-2716.29	1179.99	1706.94	-180916.00	-6019.51	3661.55	136.41	1.30	2.120
18.261	(e)	SLU	6	7	276.00	-84405.10	2792.28	2792.28	-1279.50	-1688.10	-180916.00	6214.59	-3518.19	317.81	1.32	2.143

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	Aft	Afc	σ <sub>c</sub>	σ <sub>f</sub>
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE	R	1	1	0.00	-142202.00	444.13	-1586.80	0.00	16.09	74.40	1083.04
0.004	SLE	Q	1	1	0.00	-122489.00	347.14	-1328.35	0.00	16.09	63.66	927.89
0.002	SLE	R	1	1	0.00	-142202.00	444.13	-1586.80	0.00	16.09	74.40	1083.04
0.004	SLE	Q	1	1	0.00	-122489.00	347.14	-1328.35	0.00	16.09	63.66	927.89
3.262	SLE	R	1	1	326.00	-140572.00	-598.53	2583.90	0.00	16.09	79.74	1145.41
3.264	SLE	Q	1	1	326.00	-120859.00	-453.03	2166.01	0.00	16.09	67.88	976.77
3.502	SLE	R	2	10	0.00	-125064.00	773.71	-1616.48	0.00	16.09	99.35	1400.37
3.504	SLE	Q	2	10	0.00	-107552.00	584.80	-1341.22	0.00	16.09	84.24	1190.77
3.502	SLE	R	2	10	0.00	-125064.00	773.71	-1616.48	0.00	16.09	99.35	1400.37
3.504	SLE	Q	2	10	0.00	-107552.00	584.80	-1341.22	0.00	16.09	84.24	1190.77
6.262	SLE	R	2	10	276.00	-124098.00	-806.33	2102.94	0.00	16.09	103.98	1448.94
6.264	SLE	Q	2	10	276.00	-106586.00	-614.47	1765.19	0.00	16.09	88.21	1232.09
6.502	SLE	R	3	10	0.00	-108847.00	998.86	-2040.35	0.00	16.09	95.73	1321.89
6.504	SLE	Q	3	10	0.00	-93500.80	764.37	-1698.21	0.00	16.09	80.86	1120.07
6.502	SLE	R	3	10	0.00	-108847.00	998.86	-2040.35	0.00	16.09	95.73	1321.89
6.504	SLE	Q	3	10	0.00	-93500.80	764.37	-1698.21	0.00	16.09	80.86	1120.07
9.262	SLE	R	3	10	276.00	-107881.00	-995.91	1986.45	0.00	16.09	94.57	1306.77
9.264	SLE	Q	3	10	276.00	-92534.80	-763.18	1661.48	0.00	16.09	79.89	1107.03
9.502	SLE	R	4	10	0.00	-92746.80	1189.57	-2130.21	0.00	16.09	88.50	1203.85
9.504	SLE	Q	4	10	0.00	-79543.40	915.94	-1778.53	0.00	16.09	74.50	1016.63
9.502	SLE	R	4	10	0.00	-92746.80	1189.57	-2130.21	0.00	12.06	91.34	1244.02
9.504	SLE	Q	4	10	0.00	-79543.40	915.94	-1778.53	0.00	12.06	76.87	1050.40
12.262	SLE	R	4	10	276.00	-91780.80	-1160.29	2004.98	0.00	12.06	89.18	1217.80
12.264	SLE	Q	4	10	276.00	-78577.40	-895.52	1677.33	0.00	12.06	75.05	1027.79
12.502	SLE	R	5	10	0.00	-76733.10	1362.15	-2103.13	0.00	12.06	82.54	1107.50
12.504	SLE	Q	5	10	0.00	-65655.30	1046.34	-1754.61	0.00	12.06	69.06	929.90
12.502	SLE	R	5	10	0.00	-76733.10	1362.15	-2103.13	0.00	12.06	82.54	1107.50
12.504	SLE	Q	5	10	0.00	-65655.30	1046.34	-1754.61	0.00	12.06	69.06	929.90
15.262	SLE	R	5	10	276.00	-75767.10	-1363.98	2058.97	0.00	12.06	81.50	1093.62
15.264	SLE	Q	5	10	276.00	-64689.30	-1042.64	1721.24	0.00	12.06	68.08	916.62
15.502	SLE	R	6	7	0.00	-60916.40	855.34	-1997.42	0.00	12.06	89.05	1166.92
15.504	SLE	Q	6	7	0.00	-51929.50	657.85	-1669.56	0.00	12.06	74.32	978.08
15.502	SLE	R	6	7	0.00	-60916.40	855.34	-1997.42	0.00	8.04	93.59	1226.99
15.504	SLE	Q	6	7	0.00	-51929.50	657.85	-1669.56	0.00	8.04	78.15	1028.92
18.262	SLE	R	6	7	276.00	-60191.90	-926.04	2055.69	0.00	8.04	94.93	1238.45
18.264	SLE	Q	6	7	276.00	-51205.00	-713.68	1726.63	0.00	8.04	79.24	1037.69
18.502	SLE	R	7	7	0.00	-45582.70	1125.95	-1967.41	0.00	8.04	84.61	1072.59
18.504	SLE	Q	7	7	0.00	-38652.10	868.93	-1637.40	0.00	8.04	69.85	889.83
18.502	SLE	R	7	7	0.00	-45582.70	1125.95	-1967.41	0.00	8.04	84.61	1072.59
18.504	SLE	Q	7	7	0.00	-38652.10	868.93	-1637.40	0.00	8.04	69.85	889.83
21.262	SLE	R	7	7	276.00	-44858.20	-1078.30	2222.57	0.00	8.04	86.94	1095.90
21.264	SLE	Q	7	7	276.00	-37927.60	-834.47	1870.00	0.00	8.04	72.02	911.24
21.502	SLE	R	8	7	0.00	-30365.10	1182.77	-1765.37	2.01	6.03	71.96	877.29
21.504	SLE	Q	8	7	0.00	-25471.50	910.84	-1464.77	2.01	6.03	58.37	715.67
21.502	SLE	R	8	7	0.00	-30365.10	1182.77	-1765.37	1.54	4.62	74.42	910.35
21.504	SLE	Q	8	7	0.00	-25471.50	910.84	-1464.77	1.54	4.62	60.32	742.12
24.262	SLE	R	8	7	276.00	-29640.60	-1149.18	2541.35	1.54	4.62	90.64	1075.00
24.264	SLE	Q	8	7	276.00	-24747.00	-885.55	2121.06	1.54	4.62	73.71	878.06



Relazione di calcolo

24.50	2	SLE R	9	7	0.00	-15292.60	1147.69	-1466.86	1.54	4.62	68.39	762.88
24.50	4	SLE Q	9	7	0.00	-12397.10	885.87	-1240.92	1.54	4.62	55.47	619.14
24.50	2	SLE R	9	7	0.00	-15292.60	1147.69	-1466.86	1.54	4.62	68.39	762.88
24.50	4	SLE Q	9	7	0.00	-12397.10	885.87	-1240.92	1.54	4.62	55.47	619.14
27.26	2	SLE R	9	7	276.00	-14568.10	-1160.15	3397.06	3.08	3.08	135.24	2432.90
27.26	4	SLE Q	9	7	276.00	-11672.60	-905.93	2818.53	3.08	3.08	110.58	2042.05

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	C <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.50	4	SLE Q	9	7	0.00	-12397.10	-1240.92	885.87	39.00	0.00	0.50	14.00	120.55	1.54	46.79	458.57	0.13	0.03
24.50	3	SLE F	9	7	0.00	-13157.40	-1305.53	960.98	39.00	0.00	0.50	14.00	120.72	1.54	46.98	492.84	0.14	0.03
24.50	4	SLE Q	9	7	0.00	-12397.10	-1240.92	885.87	39.00	0.00	0.50	14.00	120.55	1.54	46.79	458.57	0.13	0.03
24.50	3	SLE F	9	7	0.00	-13157.40	-1305.53	960.98	39.00	0.00	0.50	14.00	120.72	1.54	46.98	492.84	0.14	0.03
27.26	4	SLE Q	9	7	276.00	-11672.60	2818.53	-905.93	39.00	208.00	0.50	14.00	183.25	1.54	115.73	2042.05	0.73	0.23
27.26	3	SLE F	9	7	276.00	-12432.90	2983.85	-980.19	39.00	208.00	0.50	14.00	181.71	1.54	114.04	2164.11	0.67	0.21

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <m>	d <sub>r,y</sub> <m>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <m>	d <sub>r,z</sub> <m>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	434.41	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1740.52	1.00	6357.38	0.00	0.00	0.000
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	434.41	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1740.52	1.00	6357.38	0.00	0.00	0.000
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	434.41	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1740.52	1.00	6357.38	0.00	0.00	0.000
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	781.38	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1832.43	1.00	3182.21	0.00	0.00	0.000
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	781.38	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1832.43	1.00	3182.21	0.00	0.00	0.000
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	781.38	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1832.43	1.00	3182.21	0.00	0.00	0.000
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	993.89	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1982.88	1.00	3182.21	0.00	0.00	0.000
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	993.89	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1982.88	1.00	3182.21	0.00	0.00	0.000
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	993.89	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1982.88	1.00	3182.21	0.00	0.00	0.000
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	1174.44	1.00	3710.82	2608.22	2608.22	0.40	0.30	2036.14	1.00	3182.21	2556.20	2556.20	1.255	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	1174.44	1.00	3710.82	2711.53	2711.53	0.40	0.30	2036.14	1.00	3182.21	2657.45	2657.45	1.305	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	1174.44	1.00	3710.82	3124.76	3124.76	0.40	0.30	2036.14	1.00	3182.21	3062.45	3062.45	1.504	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	1365.15	2.50	9277.05	9431.46	9277.05	0.40	0.30	2049.75	2.50	7955.54	9243.37	7955.54	3.881	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	1365.15	2.50	9277.05	9502.71	9277.05	0.40	0.30	2049.75	2.50	7955.54	9313.19	7955.54	3.881	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	1365.15	2.50	9277.05	9787.70	9277.05	0.40	0.30	2049.75	2.50	7955.54	9592.50	7955.54	3.881	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	891.12	2.17	5748.82	5748.82	5748.82	0.30	0.30	1995.86	1.97	6268.26	6268.26	6268.26	3.141	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	891.12	2.18	5782.82	5782.82	5782.82	0.30	0.30	1995.86	1.98	6306.69	6306.69	6306.69	3.160	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	891.12	2.23	5916.87	5916.87	5916.87	0.30	0.30	1995.86	2.03	6458.13	6458.13	6458.13	3.236	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	1105.05	2.50	6634.02	12185.10	6634.02	0.30	0.30	2063.40	2.50	7955.54	12524.90	7955.54	3.856	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	1105.05	2.50	6634.02	12236.00	6634.02	0.30	0.30	2063.40	2.50	7955.54	12577.30	7955.54	3.856	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	1105.05	2.50	6634.02	12439.80	6634.02	0.30	0.30	2063.40	2.50	7955.54	12786.80	7955.54	3.856	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	1171.66	2.50	6634.02	16455.30	6634.02	0.30	0.30	2120.64	2.50	7955.54	16914.20	7955.54	3.751	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	1171.66	2.50	6634.02	16455.30	6634.02	0.30	0.30	2120.64	2.50	7955.54	16914.20	7955.54	3.751	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	1171.66	2.50	6634.02	16455.30	6634.02	0.30	0.30	2120.64	2.50	7955.54	16914.20	7955.54	3.751	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	1160.20	2.50	6634.02	15943.90	6634.02	0.30	0.30	2395.55	2.50	7955.54	16388.50	7955.54	3.321	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	1160.20	2.50	6634.02	15923.50	6634.02	0.30	0.30	2395.55	2.50	7955.54	16367.60	7955.54	3.321	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	1160.20	2.50	6634.02	15842.00	6634.02	0.30	0.30	2395.55	2.50	7955.54	16283.80	7955.54	3.321	

Pilastrata n. 9

Nodi: 9 309 509 709 909 1109 1309 1509 1709 1909

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1R	40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R	40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R	30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>y</sub>	Sic.
9.50	1(e)	SLU	4	10	0.00	-142406.00	-3869.25	-3869.25	-11.84	-2848.12	-260434.00	-9308.84	-6894.49	210.94	1.00	1.829
9.50	1(e)	SLU	4	10	0.00	-142406.00	-3869.25	-3869.25	-11.84	-2848.12	-246024.00	-8552.83	-6284.89	213.75	0.87	1.728
12.26	1(e)	SLU	4	10	276.00	-141150.00	3594.47	3594.47	-22.89	-2823.09	-246024.00	8401.05	-6577.48	324.84	0.90	1.743
12.50	1(e)	SLU	5	10	0.00	-118576.00	-3772.16	-3772.16	89.62	2371.52	-246024.00	-9935.60	6103.78	149.06	1.33	2.075
12.50	1(e)	SLU	5	10	0.00	-118576.00	-3772.16	-3772.16	89.62	2371.52	-246024.00	-9935.60	6103.78	149.06	1.33	2.075
15.26	1(e)	SLU	5	10	276.00	-117320.00	3679.27	3679.27	-149.49	-2346.40	-246024.00	9750.99	-6430.61	327.66	1.36	2.097
18.50	1(e)	SLU	7	7	0.00	-70869.60	-3710.26	-3710.26	110.79	1417.39	-70869.60	-8006.37	3089.18	146.25	1.75	2.161
18.50	1(e)	SLU	7	7	0.00	-70869.60	-3710.26	-3710.26	110.79	1417.39	-70869.60	-8006.37	3089.18	146.25	1.75	2.161
21.26	1(e)	SLU	7	7	276.00	-69927.70	4077.96	4077.96	-120.70	-1398.55	-69927.70	8275.36	-2771.20	329.06	1.80	2.024
21.50	1(e)	SLU	8	7	0.00	-47154.50	-3322.96	-3322.96	110.21	-943.09	-47154.50	-8130.61	-2298.19	208.12	2.93	2.446
21.50	1(e)	SLU	8	7	0.00	-47154.50	-3322.96	-3322.96	110.21	-943.09	-47154.50	-7439.27	-2160.35	208.12	2.98	2.243
24.26	1(e)	SLU	8	7	276.00	-46212.70	4861.13	4861.13	-123.89	-924.25	-46212.70	7876.85	-1581.54	337.50	3.18	1.624
24.50	1(e)	SLU	9	7	0.00	-23455.20	-2165.35	-2165.35	-85.68	-469.10	-23455.20	-6101.63	-1250.91	194.06	6.81	2.811
24.50	1(e)	SLU	9	7	0.00	-23455.20	-2165.35	-2165.35	-85.68	-469.10	-23455.20	-6101.63	-1250.91	194.06	6.81	2.811
27.26	1(e)	SLU	9	7	276.00	-22513.30	5489.48	5489.48	70.46	450.27	-22513.30	6120.37	586.94	5.62	8.97	1.116

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El
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Stato limite ultimo - Verifiche a flessione/presoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy, s <daNm>	MRdz, s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-214983.00	-2999.19	-4299.65	18.82	4299.65	-347346.00	-10617.40	11063.70	122.34	0.80	1.616
0.00	1(e)	SLU	1	1	0.00	-214983.00	-2999.19	-4299.65	18.82	4299.65	-347346.00	-10617.40	11063.70	122.34	0.80	1.616
3.26	1(e)	SLU	1	1	326.00	-212864.00	4591.20	4591.20	256.34	4257.27	-347346.00	11225.00	10909.00	56.25	0.84	1.632
3.50	1(e)	SLU	2	10	0.00	-190190.00	-2920.96	-3803.80	-303.17	-3803.80	-260434.00	-5286.43	-5184.42	216.56	0.20	1.369
3.50	1(e)	SLU	2	10	0.00	-190190.00	-2920.96	-3803.80	-303.17	-3803.80	-260434.00	-5286.43	-5184.42	216.56	0.20	1.369
6.26	1(e)	SLU	2	10	276.00	-188934.00	3781.48	3781.48	208.69	3778.68	-260434.00	5381.57	5254.27	36.56	0.22	1.378
6.50	1(e)	SLU	3	10	0.00	-166284.00	-3665.56	-3665.56	-130.22	-3325.68	-260434.00	-6927.30	-6203.87	215.16	0.60	1.566
6.50	1(e)	SLU	3	10	0.00	-166284.00	-3665.56	-3665.56	-130.22	-3325.68	-260434.00	-6927.30	-6203.87	215.16	0.60	1.566
9.26	1(e)	SLU	3	10	276.00	-165028.00	3510.06	3510.06	83.94	3300.56	-260434.00	6836.90	6541.92	36.56	0.62	1.578
15.50	1(e)	SLU	6	7	0.00	-94619.40	-3772.89	-3772.89	128.84	1892.39	-94619.40	-7268.98	3474.15	137.81	1.20	1.909
15.50	1(e)	SLU	6	7	0.00	-94619.40	-3772.89	-3772.89	128.84	1892.39	-94619.40	-6309.07	3060.98	140.62	1.04	1.661
18.26	1(e)	SLU	6	7	276.00	-93677.60	3802.73	3802.73	-112.64	1873.55	-93677.60	6339.44	3069.80	39.38	1.07	1.662

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.00	2	SLE R	1	1	0.00	-153672.00	13.16	-2194.57	0.00	16.09	79.82	1165.48
0.00	4	SLE Q	1	1	0.00	-131565.00	25.24	-1858.85	0.00	16.09	68.32	997.61
0.00	2	SLE R	1	1	0.00	-153672.00	13.16	-2194.57	0.00	16.09	79.82	1165.48
0.00	4	SLE Q	1	1	0.00	-131565.00	25.24	-1858.85	0.00	16.09	68.32	997.61
3.26	2	SLE R	1	1	326.00	-152042.00	188.27	3388.48	0.00	16.09	86.30	1241.58
3.26	4	SLE Q	1	1	326.00	-129935.00	133.62	2863.87	0.00	16.09	73.41	1057.05
3.50	2	SLE R	2	10	0.00	-135909.00	-221.14	-2143.63	0.00	16.09	106.48	1502.77
3.50	4	SLE Q	2	10	0.00	-116236.00	-151.91	-1800.44	0.00	16.09	90.41	1277.86
3.50	2	SLE R	2	10	0.00	-135909.00	-221.14	-2143.63	0.00	16.09	106.48	1502.77
3.50	4	SLE Q	2	10	0.00	-116236.00	-151.91	-1800.44	0.00	16.09	90.41	1277.86
6.26	2	SLE R	2	10	276.00	-134943.00	151.43	2788.74	0.00	16.09	111.82	1558.73
6.26	4	SLE Q	2	10	276.00	-115270.00	91.51	2366.61	0.00	16.09	95.03	1325.97
6.50	2	SLE R	3	10	0.00	-118825.00	-92.40	-2695.74	0.00	16.09	100.54	1395.16
6.50	4	SLE Q	3	10	0.00	-101554.00	-32.57	-2272.59	0.00	16.09	85.21	1184.24
6.50	2	SLE R	3	10	0.00	-118825.00	-92.40	-2695.74	0.00	16.09	100.54	1395.16
6.50	4	SLE Q	3	10	0.00	-101554.00	-32.57	-2272.59	0.00	16.09	85.21	1184.24
9.26	2	SLE R	3	10	276.00	-117859.00	58.65	2587.25	0.00	16.09	98.56	1370.88
9.26	4	SLE Q	3	10	276.00	-100588.00	3.59	2187.75	0.00	16.09	83.50	1163.07
9.50	2	SLE R	4	10	0.00	-101758.00	-3.99	-2847.22	0.00	16.09	90.91	1247.18
9.50	4	SLE Q	4	10	0.00	-86857.70	51.45	-2408.49	0.00	16.09	77.80	1066.94
9.50	2	SLE R	4	10	0.00	-101758.00	-3.99	-2847.22	0.00	12.06	93.28	1282.68
9.50	4	SLE Q	4	10	0.00	-86857.70	51.45	-2408.49	0.00	12.06	79.84	1097.57
12.26	2	SLE R	4	10	276.00	-100792.00	-21.39	2649.43	0.00	12.06	90.82	1253.37
12.26	4	SLE Q	4	10	276.00	-85891.70	-70.84	2243.80	0.00	12.06	77.74	1072.15
12.50	2	SLE R	5	10	0.00	-84722.10	71.03	-2775.83	0.00	12.06	82.40	1120.27
12.50	4	SLE Q	5	10	0.00	-72163.80	127.85	-2345.15	0.00	12.06	70.62	959.27
12.50	2	SLE R	5	10	0.00	-84722.10	71.03	-2775.83	0.00	12.06	82.40	1120.27
12.50	4	SLE Q	5	10	0.00	-72163.80	127.85	-2345.15	0.00	12.06	70.62	959.27
15.26	2	SLE R	5	10	276.00	-83756.10	-113.37	2711.23	0.00	12.06	81.53	1108.44
15.26	4	SLE Q	5	10	276.00	-71197.80	-167.33	2294.05	0.00	12.06	69.86	948.63
15.50	2	SLE R	6	7	0.00	-67595.10	98.98	-2777.35	0.00	12.06	92.05	1230.10
15.50	4	SLE Q	6	7	0.00	-57391.20	126.59	-2356.24	0.00	12.06	78.83	1051.33
15.50	2	SLE R	6	7	0.00	-67595.10	98.98	-2777.35	0.00	8.04	97.65	1302.88
15.50	4	SLE Q	6	7	0.00	-57391.20	126.59	-2356.24	0.00	8.04	83.58	1113.10
18.26	2	SLE R	6	7	276.00	-66870.60	-86.97	2801.94	0.00	8.04	97.17	1295.28
18.26	4	SLE Q	6	7	276.00	-56666.70	-118.65	2385.71	0.00	8.04	83.24	1106.93
18.50	2	SLE R	7	7	0.00	-50636.20	86.84	-2731.76	0.00	8.04	82.33	1076.63
18.50	4	SLE Q	7	7	0.00	-42809.60	126.40	-2307.74	0.00	8.04	70.45	918.89
18.50	2	SLE R	7	7	0.00	-50636.20	86.84	-2731.76	0.00	8.04	82.33	1076.63
18.50	4	SLE Q	7	7	0.00	-42809.60	126.40	-2307.74	0.00	8.04	70.45	918.89
21.26	2	SLE R	7	7	276.00	-49911.70	-93.89	3003.83	0.00	8.04	85.58	1109.68
21.26	4	SLE Q	7	7	276.00	-42085.10	-129.60	2560.60	0.00	8.04	73.38	948.45
21.50	2	SLE R	8	7	0.00	-33700.50	86.74	-2447.22	0.00	8.04	64.42	820.85
21.50	4	SLE Q	8	7	0.00	-28235.60	125.53	-2055.19	0.00	8.04	55.00	698.33
21.50	2	SLE R	8	7	0.00	-33700.50	86.74	-2447.22	0.00	6.16	66.50	849.45
21.50	4	SLE Q	8	7	0.00	-28235.60	125.53	-2055.19	0.00	6.16	56.79	722.85
24.26	2	SLE R	8	7	276.00	-32976.00	-96.60	3579.06	3.08	3.08	90.45	1086.04
24.26	4	SLE Q	8	7	276.00	-27511.10	-130.90	3014.76	3.08	3.08	77.41	925.62
24.50	2	SLE R	9	7	0.00	-16775.80	-55.38	-1597.11	3.08	3.08	40.82	502.39
24.50	4	SLE Q	9	7	0.00	-13669.40	14.47	-1388.43	3.08	3.08	34.57	421.81
24.50	2	SLE R	9	7	0.00	-16775.80	-55.38	-1597.11	3.08	3.08	40.82	502.39
24.50	4	SLE Q	9	7	0.00	-13669.40	14.47	-1388.43	3.08	3.08	34.57	421.81
27.26	2	SLE R	9	7	276.00	-16051.30	44.24	4041.00	3.08	3.08	110.21	2380.34
27.26	4	SLE Q	9	7	276.00	-12944.90	-22.65	3360.72	3.08	3.08	91.28	2027.91

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	W <sub>k</sub> <mm>	
27.26	4	SLE	Q	9	7	276.00	-12944.90	3360.72	-22.65	39.00	208.00	0.50	14.00	180.50	3.08	225.41	2027.91	0.73	0.22
27.26	3	SLE	F	9	7	276.00	-13771.40	3555.05	-3.23	39.00	208.00	0.50	14.00	181.31	3.08	227.19	2126.03	0.65	0.20

Stato limite ultimo - Verifiche a taglio



Relazione di calcolo

X0 <m>	X1 <m>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <m>	d <sub>r,y</sub> <m>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <m>	d <sub>r,z</sub> <m>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	72.86	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	2328.34	1.00	6357.38	0.00	0.00	0.000
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	72.86	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	2328.34	1.00	6357.38	0.00	0.00	0.000
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	72.86	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	2328.34	1.00	6357.38	0.00	0.00	0.000
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	185.45	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2428.42	1.00	3182.21	0.00	0.00	0.000
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	185.45	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2428.42	1.00	3182.21	0.00	0.00	0.000
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	185.45	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2428.42	1.00	3182.21	0.00	0.00	0.000
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	77.59	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2599.86	1.00	3182.21	0.00	0.00	0.000
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	77.59	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2599.86	1.00	3182.21	0.00	0.00	0.000
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	77.59	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2599.86	1.00	3182.21	0.00	0.00	0.000
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	4.00	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2704.25	1.00	3182.21	0.00	0.00	0.000
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	4.00	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2704.25	1.00	3182.21	0.00	0.00	0.000
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	4.00	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2704.25	1.00	3182.21	0.00	0.00	0.000
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	86.63	1.85	6864.25	6864.25	6864.25	6864.25	0.40	0.30	2699.80	2.01	6406.77	6406.77	6406.77	2.373
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	86.63	1.86	6919.87	6919.87	6919.87	6919.87	0.40	0.30	2699.80	2.03	6456.87	6456.87	6456.87	2.392
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	86.63	1.92	7138.03	7138.03	7138.03	7138.03	0.40	0.30	2699.80	2.09	6653.47	6653.48	6653.47	2.464
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	87.49	1.19	3144.69	3144.69	3144.69	3144.69	0.30	0.30	2744.79	1.03	3277.67	3277.67	3277.67	1.194
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	87.49	1.21	3206.43	3206.43	3206.43	3206.43	0.30	0.30	2744.79	1.05	3350.58	3350.58	3350.58	1.221
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	87.49	1.30	3442.31	3442.31	3442.31	3442.31	0.30	0.30	2744.79	1.14	3627.61	3627.62	3627.61	1.322
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	83.87	2.50	6634.02	9908.54	6634.02	6634.02	0.30	0.30	2821.82	2.50	7955.54	10184.90	7955.54	2.819
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	83.87	2.50	6634.02	9959.50	6634.02	6634.02	0.30	0.30	2821.82	2.50	7955.54	10237.30	7955.54	2.819
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	83.87	2.50	6634.02	10163.30	6634.02	6634.02	0.30	0.30	2821.82	2.50	7955.54	10446.70	7955.54	2.819
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	84.82	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	2965.25	2.50	7955.54	16914.20	7955.54	2.683
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	84.82	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	2965.25	2.50	7955.54	16914.20	7955.54	2.683
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	84.82	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	2965.25	2.50	7955.54	16914.20	7955.54	2.683
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	56.57	2.50	6634.02	16209.40	6634.02	6634.02	0.30	0.30	2773.49	2.50	7955.54	16661.40	7955.54	2.868
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	56.57	2.50	6634.02	16189.00	6634.02	6634.02	0.30	0.30	2773.49	2.50	7955.54	16640.50	7955.54	2.868
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	56.57	2.50	6634.02	16107.50	6634.02	6634.02	0.30	0.30	2773.49	2.50	7955.54	16556.70	7955.54	2.868

Pilastrata n. 10

Nodi: 10 310 510 710 910 1110 1310 1510 1710 1910

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1R	40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R	40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R	30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
12.50	1(e)	SLU	5	10	0.00	-123118.00	-5744.30	-5744.30	747.36	2462.36	-123118.00	-10844.70	4510.43	156.09	1.20	1.879
12.50	1(e)	SLU	5	10	0.00	-123118.00	-5744.30	-5744.30	747.36	2462.36	-123118.00	-10844.70	4510.43	156.09	1.20	1.879
15.00	1(e)	SLU	5	10	250.00	-121980.00	4571.30	4571.30	-583.43	-2439.61	-246024.00	10268.10	-5444.94	331.88	1.25	2.017
18.50	1(e)	SLU	7	7	0.00	-72044.30	-5567.26	-5567.26	489.74	-1440.89	-72044.30	-8791.68	-2180.48	205.31	1.75	1.575
18.50	1(e)	SLU	7	7	0.00	-72044.30	-5567.26	-5567.26	489.74	-1440.89	-72044.30	-8791.68	-2180.48	205.31	1.75	1.575
21.00	1(e)	SLU	7	7	250.00	-71191.20	4814.47	4814.47	-368.71	-1423.82	-71191.20	8548.38	-2480.25	331.88	1.77	1.773
21.50	1(e)	SLU	8	7	0.00	-46661.30	-5208.67	-5208.67	463.91	933.23	-46661.30	-8676.63	1657.93	157.50	3.08	1.669
21.50	1(e)	SLU	8	7	0.00	-46661.30	-5208.67	-5208.67	463.91	933.23	-46661.30	-8015.31	1364.20	160.31	3.27	1.536
24.00	1(e)	SLU	8	7	250.00	-45808.20	5812.17	5812.17	-360.64	-916.16	-45808.20	8062.57	-1148.16	343.12	3.49	1.384
24.50	1(e)	SLU	9	7	0.00	-21262.90	-3320.65	-3320.65	264.84	425.26	-21262.90	-5944.33	843.35	171.56	8.55	1.793
24.50	1(e)	SLU	9	7	0.00	-21262.90	-3320.65	-3320.65	264.84	425.26	-21262.90	-5944.33	843.35	171.56	8.55	1.793
27.00	1(e)	SLU	9	7	250.00	-20409.80	5176.87	5176.87	-142.88	-408.20	-20409.80	5878.91	-472.69	355.78	10.08	1.136

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	1	3.50	30.31	28.28	---	1	3.50	30.31	28.28	---	1	3.50	30.31	28.28	---	2	3.00	29.69	25.18
---	2	3.00	29.69	25.18	---	2	3.00	29.69	25.18	---	3	3.00	29.69	26.99	---	3	3.00	29.69	26.99
---	3	3.00	29.69	26.99	---	4	3.00	29.69	29.24	---	4	3.00	29.69	29.24	---	4	3.00	29.69	29.24
---	6	3.00	34.64	31.31	---	6	3.00	34.64	31.31	---	6	3.00	34.64	31.31					

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy, s <daNm>	MRdz, s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1 (e)	SLU	1	1	0.00	-227301.00	-4309.94	-4546.02	452.42	4546.02	-347346.00	-9964.46	10265.70	122.34	0.64	1.528
0.00	1 (e)	SLU	1	1	0.00	-227301.00	-4309.94	-4546.02	452.42	4546.02	-347346.00	-9964.46	10265.70	122.34	0.64	1.528
3.00	1 (e)	SLU	1	1	300.00	-225351.00	6113.31	6113.31	-490.48	-4507.02	-347346.00	12291.20	-9100.72	309.38	0.68	1.541
3.50	1 (e)	SLU	2	10	0.00	-200459.00	-4591.38	-4591.38	669.24	-4009.18	-200459.00	-4680.32	-4245.57	213.75	0.03	1.037
3.50	1 (e)	SLU	2	10	0.00	-200459.00	-4591.38	-4591.38	669.24	-4009.18	-200459.00	-4680.32	-4245.57	213.75	0.03	1.037
6.00	1 (e)	SLU	2	10	250.00	-199322.00	4670.06	4670.06	-512.23	3986.43	-199322.00	4759.50	4329.08	33.75	0.05	1.048
6.50	1 (e)	SLU	3	10	0.00	-174616.00	-5656.68	-5656.68	697.19	-3492.31	-174616.00	-7076.53	-4456.46	206.72	0.42	1.258
6.50	1 (e)	SLU	3	10	0.00	-174616.00	-5656.68	-5656.68	697.19	-3492.31	-174616.00	-7076.53	-4456.46	206.72	0.42	1.258
9.00	1 (e)	SLU	3	10	250.00	-173478.00	4348.05	4348.05	-543.33	-3469.56	-260434.00	6735.15	-5413.00	327.66	0.47	1.501
9.50	1 (e)	SLU	4	10	0.00	-148841.00	-5841.00	-5841.00	737.68	-2976.81	-148841.00	-9076.40	-4620.25	203.91	0.85	1.554
9.50	1 (e)	SLU	4	10	0.00	-148841.00	-5841.00	-5841.00	737.68	2976.81	-148841.00	-8307.60	4252.46	153.28	0.71	1.424
12.00	1 (e)	SLU	4	10	250.00	-147703.00	4415.12	4415.12	-571.70	-2954.06	-246024.00	8040.07	-4981.64	329.06	0.76	1.666
15.50	1 (e)	SLU	6	7	0.00	-97420.10	-5553.53	-5553.53	416.99	1948.40	-97420.10	-8199.79	2553.01	146.25	1.11	1.459
15.50	1 (e)	SLU	6	7	0.00	-97420.10	-5553.53	-5553.53	416.99	1948.40	-97420.10	-8683.23	2252.36	149.06	0.95	1.227
18.00	1 (e)	SLU	6	7	250.00	-96566.90	4553.21	4553.21	-358.93	1931.34	-96566.90	6664.64	2610.31	35.16	0.99	1.447



Relazione di calcolo

0.00	2	SLE R	1	1	0.00	-162989.00	339.63	-3171.19	0.00	16.09	91.06	1312.62
0.00	4	SLE Q	1	1	0.00	-142142.00	302.11	-2840.20	0.00	16.09	79.83	1149.79
0.00	2	SLE R	1	1	0.00	-162989.00	339.63	-3171.19	0.00	16.09	91.06	1312.62
0.00	4	SLE Q	1	1	0.00	-142142.00	302.11	-2840.20	0.00	16.09	79.83	1149.79
3.00	2	SLE R	1	1	300.00	-161489.00	-373.28	4526.18	0.00	16.09	97.50	1389.07
3.00	4	SLE Q	1	1	300.00	-140642.00	-339.75	4077.20	0.00	16.09	85.70	1219.23
3.50	2	SLE R	2	10	0.00	-143683.00	510.74	-3387.10	0.00	16.09	126.35	1741.19
3.50	4	SLE Q	2	10	0.00	-125047.00	471.35	-3050.82	0.00	16.09	111.24	1529.51
3.50	2	SLE R	2	10	0.00	-143683.00	510.74	-3387.10	0.00	16.09	126.35	1741.19
3.50	4	SLE Q	2	10	0.00	-125047.00	471.35	-3050.82	0.00	16.09	111.24	1529.51
6.00	2	SLE R	2	10	250.00	-142808.00	-390.83	3454.83	0.00	16.09	125.46	1728.72
6.00	4	SLE Q	2	10	250.00	-124172.00	-365.55	3101.99	0.00	16.09	110.31	1516.61
6.50	2	SLE R	3	10	0.00	-125146.00	533.00	-4177.23	0.00	16.09	123.27	1661.92
6.50	4	SLE Q	3	10	0.00	-108739.00	505.66	-3758.76	0.00	16.09	108.79	1462.67
6.50	2	SLE R	3	10	0.00	-125146.00	533.00	-4177.23	0.00	16.09	123.27	1661.92
6.50	4	SLE Q	3	10	0.00	-108739.00	505.66	-3758.76	0.00	16.09	108.79	1462.67
9.00	2	SLE R	3	10	250.00	-124271.00	-415.48	3216.01	0.00	16.09	111.96	1535.20
9.00	4	SLE Q	3	10	250.00	-107864.00	-397.08	2893.49	0.00	16.09	98.53	1347.52
9.50	2	SLE R	4	10	0.00	-106661.00	564.83	-4314.00	0.00	16.09	113.67	1511.39
9.50	4	SLE Q	4	10	0.00	-92496.00	544.55	-3876.25	0.00	16.09	100.42	1331.19
9.50	2	SLE R	4	10	0.00	-106661.00	564.83	-4314.00	0.00	12.06	116.47	1552.30
9.50	4	SLE Q	4	10	0.00	-92496.00	544.55	-3876.25	0.00	12.06	102.88	1367.03
12.00	2	SLE R	4	10	250.00	-105786.00	-437.21	3265.13	0.00	12.06	104.09	1413.67
12.00	4	SLE Q	4	10	250.00	-91621.00	-423.11	2935.79	0.00	12.06	91.66	1241.12
12.50	2	SLE R	5	10	0.00	-88217.60	576.59	-4243.04	0.00	12.06	104.20	1370.67
12.50	4	SLE Q	5	10	0.00	-76307.20	569.90	-3815.27	0.00	12.06	92.26	1209.36
12.50	2	SLE R	5	10	0.00	-88217.60	576.59	-4243.04	0.00	12.06	104.20	1370.67
12.50	4	SLE Q	5	10	0.00	-76307.20	569.90	-3815.27	0.00	12.06	92.26	1209.36
15.00	2	SLE R	5	10	250.00	-87342.60	-452.55	3380.37	0.00	12.06	93.74	1253.14
15.00	4	SLE Q	5	10	250.00	-75432.20	-452.94	3042.03	0.00	12.06	82.78	1102.53
15.50	2	SLE R	6	7	0.00	-69792.30	325.97	-4101.83	0.00	12.06	114.50	1481.03
15.50	4	SLE Q	6	7	0.00	-60136.90	325.73	-3677.69	0.00	12.06	101.25	1304.07
15.50	2	SLE R	6	7	0.00	-69792.30	325.97	-4101.83	0.00	8.04	121.51	1569.71
15.50	4	SLE Q	6	7	0.00	-60136.90	325.73	-3677.69	0.00	8.04	107.46	1382.30
18.00	2	SLE R	6	7	250.00	-69136.00	-280.06	3365.48	0.00	8.04	110.04	1442.13
18.00	4	SLE Q	6	7	250.00	-59480.60	-280.14	3021.40	0.00	8.04	97.05	1266.38
18.50	2	SLE R	7	7	0.00	-51613.90	383.35	-4113.26	2.01	6.03	109.58	1370.71
18.50	4	SLE Q	7	7	0.00	-44210.30	386.36	-3688.22	2.01	6.03	98.07	1217.49
18.50	2	SLE R	7	7	0.00	-51613.90	383.35	-4113.26	2.01	6.03	109.58	1370.71
18.50	4	SLE Q	7	7	0.00	-44210.30	386.36	-3688.22	2.01	6.03	98.07	1217.49
21.00	2	SLE R	7	7	250.00	-50957.60	-288.91	3557.09	0.00	8.04	97.93	1245.57
21.00	4	SLE Q	7	7	250.00	-43554.00	-292.49	3188.04	0.00	8.04	86.94	1098.80
21.50	2	SLE R	8	7	0.00	-33432.10	364.63	-3849.79	4.02	4.02	99.20	1166.05
21.50	4	SLE Q	8	7	0.00	-28289.80	370.97	-3454.22	4.02	4.02	90.41	1047.75
21.50	2	SLE R	8	7	0.00	-33432.10	364.63	-3849.79	3.08	3.08	104.22	1224.31
21.50	4	SLE Q	8	7	0.00	-28289.80	370.97	-3454.22	3.08	3.08	95.39	1103.60
24.00	2	SLE R	8	7	250.00	-32775.90	-283.10	4290.62	3.08	3.08	114.82	1311.55
24.00	4	SLE Q	8	7	250.00	-27633.60	-287.46	3796.06	3.08	3.08	103.46	1165.54
24.50	2	SLE R	9	7	0.00	-15240.40	220.97	-2460.39	3.08	3.08	70.14	877.45
24.50	4	SLE Q	9	7	0.00	-12365.20	255.69	-2278.80	3.08	3.08	68.25	1024.03
24.50	2	SLE R	9	7	0.00	-15240.40	220.97	-2460.39	3.08	3.08	70.14	877.45
24.50	4	SLE Q	9	7	0.00	-12365.20	255.69	-2278.80	3.08	3.08	68.25	1024.03
27.00	2	SLE R	9	7	250.00	-14584.10	-126.43	3818.97	3.08	3.08	107.81	2364.57
27.00	4	SLE Q	9	7	250.00	-11709.00	-161.48	3207.40	3.08	3.08	93.06	2084.60

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
21.50	4	SLE Q	8	7	0.00	-28289.80	-3454.22	370.97	39.00	208.00	0.50	14.00	162.68	1.54	93.11	683.16	0.20	0.06
21.50	3	SLE F	8	7	0.00	-29704.90	-3567.22	369.22	39.00	208.00	0.50	14.00	161.10	1.54	91.38	669.94	0.20	0.05
24.00	4	SLE Q	8	7	250.00	-27633.60	3796.06	-287.46	39.00	208.00	0.50	14.00	195.20	1.54	128.87	960.20	0.28	0.09
24.00	3	SLE F	8	7	250.00	-29048.60	3937.31	-286.19	39.00	208.00	0.50	14.00	194.19	1.54	127.76	961.26	0.28	0.09
24.50	4	SLE Q	9	7	0.00	-12365.20	-2278.80	255.69	39.00	208.00	0.50	14.00	221.00	1.54	157.23	1024.03	0.30	0.11
24.50	3	SLE F	9	7	0.00	-13132.90	-2330.74	246.69	39.00	208.00	0.50	14.00	219.10	1.54	155.15	985.65	0.29	0.11
24.50	4	SLE Q	9	7	0.00	-12365.20	-2278.80	255.69	39.00	208.00	0.50	14.00	221.00	1.54	157.23	1024.03	0.30	0.11
24.50	3	SLE F	9	7	0.00	-13132.90	-2330.74	246.69	39.00	208.00	0.50	14.00	219.10	1.54	155.15	985.65	0.29	0.11
27.00	4	SLE Q	9	7	250.00	-11709.00	3207.40	-161.48	39.00	208.00	0.50	14.00	174.79	3.08	212.85	2084.60	0.77	0.23
27.00	3	SLE F	9	7	250.00	-12476.70	3382.10	-152.94	39.00	208.00	0.50	14.00	175.35	3.08	214.08	2172.37	0.69	0.21

Stato limite ultimo - Verifiche a taglio

X0 <mm>	X1 <mm>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	b <sub>w,y</sub> <cm>	d <sub>y</sub> <cm>	V <sub>sdu,y</sub> <daN>	ctgθ <sub>y</sub>	VR <sub>sd,y</sub> <daN>	V <sub>Rcd,y</sub> <daN>	V <sub>rd,y</sub> <daN>	b <sub>w,z</sub> <cm>	d <sub>z</sub> <cm>	V <sub>sdu,z</sub> <daN>	ctgθ <sub>z</sub>	VR <sub>sd,z</sub> <daN>	V <sub>Rcd,z</sub> <daN>	V <sub>rd,z</sub> <daN>	Sic.
0.00	0.50	ø8/20	2	21	SLU	0.50	0.35	314.30	1.00	4947.76	0.00	0.00	0.40	0.40	0.45	3474.42	1.00	6357.38	0.00	0.00	0.000
0.50	2.50	ø8/20	2	21	SLU	0.50	0.35	314.30	1.00	4947.76	0.00	0.00	0.40	0.40	0.45	3474.42	1.00	6357.38	0.00	0.00	0.000
2.50	3.00	ø8/20	2	21	SLU	0.50	0.35	314.30	1.00	4947.76	0.00	0.00	0.40	0.40	0.45	3474.42	1.00	6357.38	0.00	0.00	0.000
3.50	3.95	ø6/15	2	21	SLU	0.35	0.35	472.59	1.00	3710.82	0.00	0.00	0.40	0.40	0.30	3704.57	1.00	3182.21	0.00	0.00	0.000
3.95	5.55	ø6/15	2	21	SLU	0.35	0.35	472.59	1.00	3710.82	0.00	0.00	0.40	0.40	0.30	3704.58	1.00	3182.21	0.00	0.00	0.000
5.55	6.00	ø6/15	2	21	SLU	0.35	0.35	472.59	1.00	3710.82	0.00	0.00	0.40	0.40	0.30	3704.58	1.00	3182.21	0.00	0.00	0.000
6.50	6.95	ø6/15	2	21	SLU	0.35	0.35	496.21	1.00	3710.82	0.00	0.00	0.40	0.40	0.30	4001.89	1.00	3182.21	0.00	0.00	0.000
6.95	8.55	ø6/15	2	21	SLU	0.35	0.35	496.21	1.00	3710.82	0.00	0.00	0.40	0.40	0.30	4001.89	1.00	3182.21	0.00	0.00	0.000
8.55	9.00	ø6/15	2	21	SLU	0.35	0.35	496.21	1.00	3710.82	0.00	0.00	0.40	0.40	0.30	4001.89	1.00	3182.21	0.00	0.00	0.000
9.50	9.95	ø6/15	2	21	SLU	0.35	0.35	523.75	1.00	3710.82	0.00	0.00	0.40	0.40	0.30	4102.45	1.00	3182.21	0.00	0.00	0.000
9.95	11.55	ø6/15	2	21	SLU	0.35	0.35	523.75	1.00	3710.82	0.00	0.00	0.40	0.40	0.30	4102.45	1.00	3182.21	0.00	0.00	0.000



Relazione di calcolo

11.55	12.00	ø6/15	2	21	SLU	0.35	0.35	523.75	1.00	3710.82	0.00	0.00	0.40	0.30	4102.45	1.00	3182.21	0.00	0.00	0.000
12.50	12.95	ø6/15	2	21	SLU	0.35	0.35	532.31	1.49	5520.83	5520.83	5520.83	0.40	0.30	4126.24	1.63	5202.22	5202.22	5202.22	1.261
12.95	14.55	ø6/15	2	21	SLU	0.35	0.35	532.31	1.51	5588.35	5588.35	5588.35	0.40	0.30	4126.24	1.65	5262.46	5262.46	5262.46	1.275
14.55	15.00	ø6/15	2	21	SLU	0.35	0.35	532.31	1.57	5822.07	5822.07	5822.07	0.40	0.30	4126.24	1.72	5471.28	5471.28	5471.28	1.326
15.50	15.95	ø6/15	2	21	SLU	0.35	0.25	310.37	1.00	2653.61	1872.08	1872.08	0.30	0.30	4042.70	1.00	3182.21	1924.29	1924.29	0.476
15.95	17.55	ø6/15	2	21	SLU	0.35	0.25	310.37	1.00	2653.61	1944.35	1944.35	0.30	0.30	4042.70	1.00	3182.21	1998.58	1998.58	0.494
17.55	18.00	ø6/15	2	21	SLU	0.35	0.25	310.37	1.00	2653.61	2201.31	2201.31	0.30	0.30	4042.70	1.00	3182.21	2262.70	2262.70	0.560
18.50	18.95	ø6/15	2	21	SLU	0.35	0.25	343.38	2.50	6634.02	9527.27	9527.27	0.30	0.30	4152.69	2.50	7955.54	9792.97	7955.54	1.916
18.95	20.55	ø6/15	2	21	SLU	0.35	0.25	343.38	2.50	6634.02	9577.12	6634.02	0.30	0.30	4152.69	2.50	7955.54	9844.21	7955.54	1.916
20.55	21.00	ø6/15	2	21	SLU	0.35	0.25	343.38	2.50	6634.02	9754.33	6634.02	0.30	0.30	4152.69	2.50	7955.54	10026.40	7955.54	1.916
21.50	21.95	ø6/15	2	21	SLU	0.35	0.25	329.82	2.50	6634.02	16455.30	6634.02	0.30	0.30	4408.33	2.50	7955.54	16914.20	7955.54	1.805
21.95	23.55	ø6/15	2	21	SLU	0.35	0.25	329.82	2.50	6634.02	16455.30	6634.02	0.30	0.30	4408.33	2.50	7955.54	16914.20	7955.54	1.805
23.55	24.00	ø6/15	2	21	SLU	0.35	0.25	329.82	2.50	6634.02	16455.30	6634.02	0.30	0.30	4408.33	2.50	7955.54	16914.20	7955.54	1.805
24.50	24.95	ø6/15	2	21	SLU	0.35	0.25	163.09	2.50	6634.02	15924.80	6634.02	0.30	0.30	3399.01	2.50	7955.54	16368.90	7955.54	2.341
24.95	26.55	ø6/15	2	21	SLU	0.35	0.25	163.09	2.50	6634.02	15904.80	6634.02	0.30	0.30	3399.01	2.50	7955.54	16348.40	7955.54	2.341
26.55	27.00	ø6/15	2	21	SLU	0.35	0.25	163.09	2.50	6634.02	15833.90	6634.02	0.30	0.30	3399.01	2.50	7955.54	16275.50	7955.54	2.341

Pilastrata n. 11

Nodi: 11 311 511 711 911 1111 1311 1511 1711 1911

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
1	R	40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
12.50	1(e)	SLU	5	10	0.00	-122981.00	-5740.99	-5740.99	-486.70	2459.63	-122981.00	-10850.10	4511.81	156.09	1.20	1.881
12.50	1(e)	SLU	5	10	0.00	-122981.00	-5740.99	-5740.99	-486.70	2459.63	-122981.00	-10850.10	4511.81	156.09	1.20	1.881
15.00	1(e)	SLU	5	10	250.00	-121844.00	4583.18	4583.18	375.06	2436.88	-246024.00	10273.10	5446.44	28.12	1.25	2.019
18.50	1(e)	SLU	7	7	0.00	-71986.30	-5526.76	-5526.76	-326.23	1439.73	-71986.30	-8791.64	2180.08	154.69	1.75	1.586
18.50	1(e)	SLU	7	7	0.00	-71986.30	-5526.76	-5526.76	-326.23	1439.73	-71986.30	-8791.64	2180.08	154.69	1.75	1.586
21.00	1(e)	SLU	7	7	250.00	-71133.20	4773.85	4773.85	242.79	-1422.66	-71133.20	8548.32	-2479.90	331.88	1.77	1.787
21.50	1(e)	SLU	8	7	0.00	-46643.80	-5244.66	-5244.66	-327.02	-932.88	-46643.80	-8676.18	-1657.72	202.50	3.08	1.658
21.50	1(e)	SLU	8	7	0.00	-46643.80	-5244.66	-5244.66	-327.02	-932.88	-46643.80	-8014.13	1364.38	160.31	3.27	1.526
24.00	1(e)	SLU	8	7	250.00	-45790.60	5638.40	5638.40	253.37	-915.81	-45790.60	7957.11	-1372.77	340.31	3.34	1.414
24.50	1(e)	SLU	9	7	0.00	-21225.60	-3905.68	-3905.68	-341.05	-424.51	-21225.60	-5964.72	-594.79	185.62	9.36	1.526
24.50	1(e)	SLU	9	7	0.00	-21225.60	-3905.68	-3905.68	-341.05	-424.51	-21225.60	-5964.72	-594.79	185.62	9.36	1.526
27.00	1(e)	SLU	9	7	250.00	-20372.40	5473.94	5473.94	205.25	407.45	-20372.40	5874.35	472.87	4.22	10.10	1.074

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	1	3.50	30.31	28.31	---	1	3.50	30.31	28.31	---	1	3.50	30.31	28.31	---	2	3.00	29.69	25.20
---	2	3.00	29.69	25.20	---	2	3.00	29.69	25.20	---	3	3.00	29.69	27.01	---	3	3.00	29.69	27.01
---	3	3.00	29.69	27.01	---	4	3.00	29.69	29.26	---	4	3.00	29.69	29.26	---	4	3.00	29.69	29.26
---	6	3.00	34.64	31.32	---	6	3.00	34.64	31.32	---	6	3.00	34.64	31.32					

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-226838.00	-4030.38	-4536.76	-21.10	-4536.76	-347346.00	-9990.94	-10296.70	237.66	0.65	1.531
0.00	1(e)	SLU	1	1	0.00	-226838.00	-4030.38	-4536.76	-21.10	-4536.76	-347346.00	-9990.94	-10296.70	237.66	0.65	1.531
3.00	1(e)	SLU	1	1	300.00	-224888.00	5971.04	5971.04	263.12	4497.76	-347346.00	12323.50	9124.57	50.62	0.69	1.545
3.50	1(e)	SLU	2	10	0.00	-200091.00	-4541.93	-4541.93	-379.10	-4001.82	-200091.00	-4698.59	-4287.55	213.75	0.03	1.051
3.50	1(e)	SLU	2	10	0.00	-200091.00	-4541.93	-4541.93	-379.10	-4001.82	-200091.00	-4698.59	-4287.55	213.75	0.03	1.051
6.00	1(e)	SLU	2	10	250.00	-198954.00	4605.67	4605.67	294.66	-3979.07	-198954.00	4789.10	-4349.17	326.25	0.05	1.063
6.50	1(e)	SLU	3	10	0.00	-174342.00	-5682.53	-5682.53	-397.34	-3486.84	-174342.00	-7097.67	-4464.79	206.72	0.43	1.258
6.50	1(e)	SLU	3	10	0.00	-174342.00	-5682.53	-5682.53	-397.34	-3486.84	-174342.00	-7097.67	-4464.79	206.72	0.43	1.258
9.00	1(e)	SLU	3	10	250.00	-173205.00	4352.84	4352.84	318.01	3464.09	-260434.00	6754.98	5423.51	32.34	0.47	1.504
9.50	1(e)	SLU	4	10	0.00	-148643.00	-5819.81	-5819.81	-447.23	-2972.87	-148643.00	-9090.06	-4624.14	203.91	0.85	1.561
9.50	1(e)	SLU	4	10	0.00	-148643.00	-5819.81	-5819.81	-447.23	-2972.87	-148643.00	-8323.14	4255.47	153.28	0.71	1.430
12.00	1(e)	SLU	4	10	250.00	-147506.00	4403.88	4403.88	346.45	2950.12	-246024.00	8054.18	4985.59	30.94	0.76	1.668
15.50	1(e)	SLU	6	7	0.00	-97315.80	-5496.46	-5496.46	-247.72	-1946.32	-97315.80	-8205.80	-2552.73	213.75	1.11	1.474
15.50	1(e)	SLU	6	7	0.00	-97315.80	-5496.46	-5496.46	-247.72	-1946.32	-97315.80	-6870.75	2253.14	149.06	0.95	1.240
18.00	1(e)	SLU	6	7	250.00	-96462.70	4532.22	4532.22	223.49	1929.25	-96462.70	6670.96	2611.14	35.16	0.99	1.454

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez .	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.00	2	SLE R	1	1	0.00	-162668.00	-24.42	-2965.81	0.00	16.09	87.83	1274.33
0.00	4	SLE Q	1	1	0.00	-141877.00	-35.35	-2663.26	0.00	16.09	77.08	1117.24
0.00	2	SLE R	1	1	0.00	-162668.00	-24.42	-2965.81	0.00	16.09	87.83	1274.33
0.00	4	SLE Q	1	1	0.00	-141877.00	-35.35	-2663.26	0.00	16.09	77.08	1117.24
3.00	2	SLE R	1	1	300.00	-161168.00	206.70	4421.24	0.00	16.09	95.75	1368.04
3.00	4	SLE Q	1	1	300.00	-140377.00	198.44	3988.25	0.00	16.09	84.21	1201.45
3.50	2	SLE R	2	10	0.00	-143430.00	-296.77	-3351.26	0.00	16.09	123.97	1713.45
3.50	4	SLE Q	2	10	0.00	-124840.00	-290.24	-3020.02	0.00	16.09	109.22	1506.05
3.50	2	SLE R	2	10	0.00	-143430.00	-296.77	-3351.26	0.00	16.09	123.97	1713.45
3.50	4	SLE Q	2	10	0.00	-124840.00	-290.24	-3020.02	0.00	16.09	109.22	1506.05
6.00	2	SLE R	2	10	250.00	-142555.00	230.58	3407.41	0.00	16.09	123.42	1705.06
6.00	4	SLE Q	2	10	250.00	-123965.00	229.71	3060.68	0.00	16.09	108.58	1496.51



Relazione di calcolo

6.50	2	SLE R	3	10	0.00	-124959.00	-310.26	-4196.34	0.00	16.09	121.40	1640.02
6.50	4	SLE Q	3	10	0.00	-108588.00	-316.82	-3775.06	0.00	16.09	107.21	1444.19
6.50	2	SLE R	3	10	0.00	-124959.00	-310.26	-4196.34	0.00	16.09	121.40	1640.02
6.50	4	SLE Q	3	10	0.00	-108588.00	-316.82	-3775.06	0.00	16.09	107.21	1444.19
9.00	2	SLE R	3	10	250.00	-124084.00	248.25	3219.74	0.00	16.09	110.42	1517.15
9.00	4	SLE Q	3	10	250.00	-107713.00	255.14	2896.49	0.00	16.09	97.23	1332.25
9.50	2	SLE R	4	10	0.00	-106528.00	-347.20	-4298.09	0.00	16.09	111.53	1486.60
9.50	4	SLE Q	4	10	0.00	-92390.30	-359.51	-3862.38	0.00	16.09	98.60	1310.14
9.50	2	SLE R	4	10	0.00	-106528.00	-347.20	-4298.09	0.00	12.06	114.20	1526.03
9.50	4	SLE Q	4	10	0.00	-92390.30	-359.51	-3862.38	0.00	12.06	100.95	1344.72
12.00	2	SLE R	4	10	250.00	-105653.00	268.71	3256.89	0.00	12.06	102.36	1393.50
12.00	4	SLE Q	4	10	250.00	-91515.30	279.81	2928.82	0.00	12.06	90.19	1224.04
12.50	2	SLE R	5	10	0.00	-88127.10	-378.89	-4240.14	0.00	12.06	102.27	1348.38
12.50	4	SLE Q	5	10	0.00	-76236.10	-399.88	-3812.06	0.00	12.06	90.60	1190.17
12.50	2	SLE R	5	10	0.00	-88127.10	-378.89	-4240.14	0.00	12.06	102.27	1348.38
12.50	4	SLE Q	5	10	0.00	-76236.10	-399.88	-3812.06	0.00	12.06	90.60	1190.17
15.00	2	SLE R	5	10	250.00	-87252.10	295.15	3388.99	0.00	12.06	92.30	1236.43
15.00	4	SLE Q	5	10	250.00	-75361.10	317.64	3049.10	0.00	12.06	81.55	1088.19
15.50	2	SLE R	6	7	0.00	-69722.90	-193.38	-4059.00	0.00	12.06	111.72	1451.79
15.50	4	SLE Q	6	7	0.00	-60082.40	-211.45	-3640.54	0.00	12.06	98.84	1278.67
15.50	2	SLE R	6	7	0.00	-69722.90	-193.38	-4059.00	0.00	8.04	118.68	1539.91
15.50	4	SLE Q	6	7	0.00	-60082.40	-211.45	-3640.54	0.00	8.04	104.98	1356.25
18.00	2	SLE R	6	7	250.00	-69066.70	174.45	3349.62	0.00	8.04	108.03	1421.02
18.00	4	SLE Q	6	7	250.00	-59426.20	189.19	3006.64	0.00	8.04	95.31	1248.10
18.50	2	SLE R	7	7	0.00	-51576.70	-254.12	-4082.46	2.01	6.03	106.54	1339.31
18.50	4	SLE Q	7	7	0.00	-44183.40	-275.33	-3663.87	2.01	6.03	95.41	1190.13
18.50	2	SLE R	7	7	0.00	-51576.70	-254.12	-4082.46	2.01	6.03	106.54	1339.31
18.50	4	SLE Q	7	7	0.00	-44183.40	-275.33	-3663.87	2.01	6.03	95.41	1190.13
21.00	2	SLE R	7	7	250.00	-50920.50	189.44	3526.66	0.00	8.04	95.66	1221.91
21.00	4	SLE Q	7	7	250.00	-43527.20	206.88	3161.29	0.00	8.04	84.92	1077.80
21.50	2	SLE R	8	7	0.00	-33422.60	-254.99	-3875.23	4.02	4.02	97.18	1144.93
21.50	4	SLE Q	8	7	0.00	-28285.30	-279.20	-3479.86	4.02	4.02	88.75	1030.32
21.50	2	SLE R	8	7	0.00	-33422.60	-254.99	-3875.23	3.08	3.08	102.08	1201.65
21.50	4	SLE Q	8	7	0.00	-28285.30	-279.20	-3479.86	3.08	3.08	93.64	1084.82
24.00	2	SLE R	8	7	250.00	-32766.30	197.47	4162.08	3.08	3.08	108.77	1254.71
24.00	4	SLE Q	8	7	250.00	-27629.00	215.74	3691.99	3.08	3.08	98.33	1117.99
24.50	2	SLE R	9	7	0.00	-15214.30	-266.12	-2890.21	3.08	3.08	84.96	1329.01
24.50	4	SLE Q	9	7	0.00	-12347.20	-291.11	-2636.34	3.08	3.08	80.60	1421.56
24.50	2	SLE R	9	7	0.00	-15214.30	-266.12	-2890.21	3.08	3.08	84.96	1329.01
24.50	4	SLE Q	9	7	0.00	-12347.20	-291.11	-2636.34	3.08	3.08	80.60	1421.56
27.00	2	SLE R	9	7	250.00	-14558.00	163.58	4036.41	3.08	3.08	115.60	2630.16
27.00	4	SLE Q	9	7	250.00	-11691.00	190.34	3389.63	3.08	3.08	99.52	2307.57

Stato limite d'esercizio - Verifiche a fessurazione

Xg	CC	TCC	El	Sez.	X	N	My	Mz	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
<mm>					<mm>	<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
21.50	4	SLE Q	8	7	0.00	-28285.30	-3479.86	-279.20	39.00	208.00	0.50	14.00	174.57	1.54	106.19	671.66	0.20	0.06
21.50	3	SLE F	8	7	0.00	-29699.10	-3592.79	-272.49	39.00	208.00	0.50	14.00	173.22	1.54	104.70	656.99	0.19	0.06
24.00	4	SLE Q	8	7	250.00	-27629.00	3691.99	215.74	39.00	208.00	0.50	14.00	197.32	1.54	131.20	854.01	0.25	0.08
24.00	3	SLE F	8	7	250.00	-29042.90	3826.24	210.61	39.00	208.00	0.50	14.00	196.28	1.54	130.06	850.33	0.25	0.08
24.50	4	SLE Q	9	7	0.00	-12347.20	-2636.34	-291.11	39.00	208.00	0.50	14.00	235.40	1.54	173.06	1421.56	0.41	0.17
24.50	3	SLE F	9	7	0.00	-13113.00	-2708.93	-284.92	39.00	208.00	0.50	14.00	234.36	1.54	171.93	1400.50	0.41	0.16
24.50	4	SLE Q	9	7	0.00	-12347.20	-2636.34	-291.11	39.00	208.00	0.50	14.00	235.40	1.54	173.06	1421.56	0.41	0.17
24.50	3	SLE F	9	7	0.00	-13113.00	-2708.93	-284.92	39.00	208.00	0.50	14.00	234.36	1.54	171.93	1400.50	0.41	0.16
27.00	4	SLE Q	9	7	250.00	-11691.00	3389.63	190.34	39.00	208.00	0.50	14.00	175.27	3.08	213.90	2307.57	0.88	0.26
27.00	3	SLE F	9	7	250.00	-12456.80	3574.39	184.14	39.00	208.00	0.50	14.00	175.76	3.08	214.99	2407.63	0.81	0.24

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<mm>	<mm>						<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.50	ø8/20	2	21	SLU	0.50	0.35	94.74	1.00	4947.76	0.00	0.00	0.40	0.45	3333.81	1.00	6357.38	0.00	0.00	0.000	
0.50	2.50	ø8/20	2	21	SLU	0.50	0.35	94.74	1.00	4947.76	0.00	0.00	0.40	0.45	3333.81	1.00	6357.38	0.00	0.00	0.000	
2.50	3.00	ø8/20	2	21	SLU	0.50	0.35	94.74	1.00	4947.76	0.00	0.00	0.40	0.45	3333.81	1.00	6357.38	0.00	0.00	0.000	
3.50	3.95	ø6/15	2	21	SLU	0.35	0.35	269.50	1.00	3710.82	0.00	0.00	0.40	0.30	3659.04	1.00	3182.21	0.00	0.00	0.000	
3.95	5.55	ø6/15	2	21	SLU	0.35	0.35	269.50	1.00	3710.82	0.00	0.00	0.40	0.30	3659.04	1.00	3182.21	0.00	0.00	0.000	
5.55	6.00	ø6/15	2	21	SLU	0.35	0.35	269.50	1.00	3710.82	0.00	0.00	0.40	0.30	3659.04	1.00	3182.21	0.00	0.00	0.000	
6.50	6.95	ø6/15	2	21	SLU	0.35	0.35	286.14	1.00	3710.82	0.00	0.00	0.40	0.30	4014.15	1.00	3182.21	0.00	0.00	0.000	
6.95	8.55	ø6/15	2	21	SLU	0.35	0.35	286.14	1.00	3710.82	0.00	0.00	0.40	0.30	4014.15	1.00	3182.21	0.00	0.00	0.000	
8.55	9.00	ø6/15	2	21	SLU	0.35	0.35	286.14	1.00	3710.82	0.00	0.00	0.40	0.30	4014.15	1.00	3182.21	0.00	0.00	0.000	
9.50	9.95	ø6/15	2	21	SLU	0.35	0.35	317.47	1.00	3710.82	0.00	0.00	0.40	0.30	4089.47	1.00	3182.21	0.00	0.00	0.000	
9.95	11.55	ø6/15	2	21	SLU	0.35	0.35	317.47	1.00	3710.82	0.00	0.00	0.40	0.30	4089.47	1.00	3182.21	0.00	0.00	0.000	
11.55	12.00	ø6/15	2	21	SLU	0.35	0.35	317.47	1.00	3710.82	0.00	0.00	0.40	0.30	4089.47	1.00	3182.21	0.00	0.00	0.000	
12.50	12.95	ø6/15	2	21	SLU	0.35	0.35	344.70	1.50	5565.94	5565.94	5565.94	0.40	0.30	4129.67	1.65	5242.46	5242.47	5242.46	1.269	
12.95	14.55	ø6/15	2	21	SLU	0.35	0.35	344.70	1.52	5632.91	5632.92	5632.91	0.40	0.30	4129.67	1.67	5302.25	5302.25	5302.25	1.284	
14.55	15.00	ø6/15	2	21	SLU	0.35	0.35	344.70	1.58	5864.86	5864.86	5864.86	0.40	0.30	4129.67	1.73	5509.55	5509.55	5509.55	1.334	
15.50	15.95	ø6/15	2	21	SLU	0.35	0.25	188.48	1.00	2653.61	1921.14	1921.14	0.30	0.30	4011.47	1.00	3182.21	1974.72	1974.72	0.492	
15.95	17.55	ø6/15	2	21	SLU	0.35	0.25	188.48	1.00	2653.61	1993.41	1993.41	0.30	0.30	4011.47	1.00	3182.21	2049.00	2049.00	0.511	
17.55	18.00	ø6/15	2	21	SLU	0.35	0.25	188.48	1.00	2653.61	2250.37	2250.37	0.30	0.30	4011.47	1.00	3182.21	2313.13	2313.13	0.577	
18.50	18.95	ø6/15	2	21	SLU	0.35	0.25	227.61	2.50	6634.02	9546.09	6634.02	0.30	0.30	4120.24	2.50	7955.54	9812.31	7955.54	1.931	
18.95	20.55	ø6/15	2	21	SLU	0.35	0.25	227.61	2.50	6634.02	9595.93	6634.02	0.30	0.30	4120.24	2.50	7955.54	9863.55	7955.54	1.931	
20.55	21.00	ø6/15	2	21	SLU	0.35	0.25	227.61	2.50	6634.02	9773.15	6634.02	0.30	0.30	4120.24	2.50	7955.54	10045.70	7955.54	1.931	
21.50	21.95	ø6/15	2	21	SLU	0.35	0.25	232.16	2.50	6634.02	16455.30	6634.02	0.30	0.30	4353.22	2.50	7955.54	16914.20	7955.54	1.828	
21.95	23.55	ø6/15	2	21	SLU	0.35	0.25	232.16	2.50	6634.02	16455.30	6634.02	0.30	0.30	4353.22	2.50	7955.54	16914.20	7955.54	1.828	
23.55	24.00	ø6/15	2	21	SLU	0.35	0.25	232.16	2.50	6634.02	16455.30	6634.02	0.30	0.30	4353.22	2.50	7955.54	16914.20	7955.54	1.828	
24.50	24.95	ø6/15	2	21	SLU	0.35	0.25	218.52	2.50	6634.02	15919.90	6634.02	0.30	0.30	3751.85	2.50	7955.54	16363.90	7955.54	2.120	
24.95	26.55	ø6/15	2	21	SLU	0.35	0.25	218.52	2.50	6634.02	15900.00	6634.02	0.30	0.30	3751.85	2.50	7955.54	16343.40	7955.54	2.120	
26.55	27.00	ø6/15	2	21	SLU	0.35	0.25	218.52	2.50	6634.02	15829.10	6634.02	0.30	0.30	3751.85	2.50	7955.54	16270.50	7955.54	2.120	



Pilastrata n. 12

Nodi: 12 312 512 712 912 1112 1312 1512 1712 1912

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1R		40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
9.50	1(e)	SLU	4	10	0.00	-143014.00	-3796.50	-3796.50	441.77	2860.28	-260434.00	-9284.02	6882.54	149.06	0.99	1.821
9.50	1(e)	SLU	4	10	0.00	-143014.00	-3796.50	-3796.50	441.77	2860.28	-246024.00	-8524.43	6269.56	146.25	0.86	1.720
12.26	1(e)	SLU	4	10	276.00	-141758.00	3534.38	3534.38	-388.94	-2835.16	-246024.00	8375.22	-6562.56	324.84	0.89	1.736
12.50	1(e)	SLU	5	10	0.00	-119058.00	-3769.49	-3769.49	344.00	2381.16	-246024.00	-9920.10	6098.23	149.06	1.32	2.066
12.50	1(e)	SLU	5	10	0.00	-119058.00	-3769.49	-3769.49	344.00	2381.16	-246024.00	-9920.10	6098.23	149.06	1.32	2.066
15.26	1(e)	SLU	5	10	276.00	-117802.00	3715.27	3715.27	-279.92	-2356.04	-246024.00	9960.37	-6112.63	329.06	1.35	2.088
18.50	1(e)	SLU	7	7	0.00	-71181.10	-3620.84	-3620.84	181.84	1423.62	-71181.10	-8006.70	3089.46	146.25	1.74	2.206
18.50	1(e)	SLU	7	7	0.00	-71181.10	-3620.84	-3620.84	181.84	1423.62	-71181.10	-8006.70	3089.46	146.25	1.74	2.206
21.26	1(e)	SLU	7	7	276.00	-70239.20	3993.88	3993.88	-159.25	-1404.78	-70239.20	8277.50	-2773.01	329.06	1.79	2.062
21.50	1(e)	SLU	8	7	0.00	-47380.80	-3262.45	-3262.45	152.34	947.62	-47380.80	-8137.38	2300.32	151.88	2.92	2.489
21.50	1(e)	SLU	8	7	0.00	-47380.80	-3262.45	-3262.45	152.34	947.62	-47380.80	-7447.05	2162.16	151.88	2.97	2.283
24.26	1(e)	SLU	8	7	276.00	-46439.00	4206.45	4206.45	-136.85	928.78	-46439.00	7779.83	1721.38	23.91	3.12	1.850
24.50	1(e)	SLU	9	7	0.00	-23644.70	-3236.42	-3236.42	159.18	-472.89	-23644.70	-6225.17	-826.65	188.44	7.98	1.920
24.50	1(e)	SLU	9	7	0.00	-23644.70	-3236.42	-3236.42	159.18	-472.89	-23644.70	-6225.17	-826.65	188.44	7.98	1.920
27.26	1(e)	SLU	9	7	276.00	-22702.80	5889.80	5889.80	-182.13	-454.06	-22702.80	6154.19	-461.66	355.78	9.38	1.045

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	1	3.50	30.31	29.01	---	1	3.50	30.31	29.01	---	1	3.50	30.31	29.01	---	2	3.00	29.69	25.80
---	2	3.00	29.69	25.80	---	2	3.00	29.69	25.80	---	3	3.00	29.69	27.60	---	3	3.00	29.69	27.60
---	3	3.00	29.69	27.60	---	6	3.00	34.64	31.71	---	6	3.00	34.64	31.71	---	6	3.00	34.64	31.71

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-216099.00	-2803.18	-4321.97	481.36	4321.97	-347346.00	-10563.40	10998.90	122.34	0.79	1.607
0.00	1(e)	SLU	1	1	0.00	-216099.00	-2803.18	-4321.97	481.36	4321.97	-347346.00	-10563.40	10998.90	122.34	0.79	1.607
3.00	1(e)	SLU	1	1	300.00	-214149.00	4492.04	4492.04	-563.93	-4282.97	-347346.00	11157.30	-10835.20	303.75	0.82	1.622
3.50	1(e)	SLU	2	10	0.00	-190974.00	-3114.44	-3819.48	705.88	-3819.48	-190974.00	-5229.10	-5142.35	216.56	0.19	1.358
3.50	1(e)	SLU	2	10	0.00	-190974.00	-3114.44	-3819.48	705.88	-3819.48	-190974.00	-5229.10	-5142.35	216.56	0.19	1.358
6.26	1(e)	SLU	2	10	276.00	-189718.00	3696.12	3794.36	-576.93	-3794.36	-260434.00	5320.83	-5209.64	323.44	0.21	1.373
6.50	1(e)	SLU	3	10	0.00	-166989.00	-3677.50	-3677.50	534.68	3339.78	-260434.00	-6883.85	6172.90	144.84	0.59	1.560
6.50	1(e)	SLU	3	10	0.00	-166989.00	-3677.50	-3677.50	534.68	3339.78	-260434.00	-6883.85	6172.90	144.84	0.59	1.560
9.26	1(e)	SLU	3	10	276.00	-165733.00	3505.55	3505.55	-471.75	-3314.67	-260434.00	6795.13	-6504.74	323.44	0.61	1.571
15.50	1(e)	SLU	6	7	0.00	-95008.60	-3620.70	-3620.70	142.24	1900.17	-95008.60	-7060.82	3621.55	136.41	1.19	1.941
15.50	1(e)	SLU	6	7	0.00	-95008.60	-3620.70	-3620.70	142.24	1900.17	-95008.60	-6296.90	-3057.36	219.38	1.03	1.712
18.26	1(e)	SLU	6	7	276.00	-94066.80	3732.80	3732.80	-158.66	-1881.34	-94066.80	6327.85	-3066.28	320.62	1.06	1.682

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.00	2	SLE	R	1	1	0.00	-154589.00	352.20	-2051.78	0.00	16.09	1187.94
0.00	4	SLE	Q	1	1	0.00	-132523.00	285.04	-1730.58	0.00	16.09	1015.36
0.00	2	SLE	R	1	1	0.00	-154589.00	352.20	-2051.78	0.00	16.09	1187.94
0.00	4	SLE	Q	1	1	0.00	-132523.00	285.04	-1730.58	0.00	16.09	1015.36
3.00	2	SLE	R	1	1	300.00	-153089.00	-412.96	3314.64	0.00	16.09	1260.70
3.00	4	SLE	Q	1	1	300.00	-131023.00	-328.85	2802.74	0.00	16.09	1075.04
3.50	2	SLE	R	2	10	0.00	-136572.00	517.46	-2286.35	0.00	16.09	1554.40
3.50	4	SLE	Q	2	10	0.00	-116944.00	406.92	-1919.97	0.00	16.09	1323.17
3.50	2	SLE	R	2	10	0.00	-136572.00	517.46	-2286.35	0.00	16.09	1554.40
3.50	4	SLE	Q	2	10	0.00	-116944.00	406.92	-1919.97	0.00	16.09	1323.17
6.26	2	SLE	R	2	10	276.00	-135606.00	-422.94	2724.32	0.00	16.09	1584.83
6.26	4	SLE	Q	2	10	276.00	-115978.00	-326.78	2307.50	0.00	16.09	1349.43
6.50	2	SLE	R	3	10	0.00	-119425.00	393.40	-2702.36	0.00	16.09	1431.55
6.50	4	SLE	Q	3	10	0.00	-102198.00	295.16	-2276.04	0.00	16.09	1216.83
6.50	2	SLE	R	3	10	0.00	-119425.00	393.40	-2702.36	0.00	16.09	1431.55
6.50	4	SLE	Q	3	10	0.00	-102198.00	295.16	-2276.04	0.00	16.09	1216.83
9.26	2	SLE	R	3	10	276.00	-118459.00	-347.29	2582.53	0.00	16.09	1404.77
9.26	4	SLE	Q	3	10	276.00	-101232.00	-256.21	2181.35	0.00	16.09	1193.56
9.50	2	SLE	R	4	10	0.00	-102280.00	326.34	-2790.75	0.00	16.09	1277.97
9.50	4	SLE	Q	4	10	0.00	-87422.40	231.84	-2357.50	0.00	16.09	1084.51
9.50	2	SLE	R	4	10	0.00	-102280.00	326.34	-2790.75	0.00	12.06	1315.78
9.50	4	SLE	Q	4	10	0.00	-87422.40	231.84	-2357.50	0.00	12.06	1116.52
12.26	2	SLE	R	4	10	276.00	-101314.00	-287.16	2603.43	0.00	12.06	1281.59



Relazione di calcolo

12.264	SLE Q	4	10	276.00	-86456.40	-200.54	2202.99	0.00	12.06	78.89	1086.82
12.502	SLE R	5	10	0.00	-85143.70	256.76	-2770.72	0.00	12.06	84.34	1143.54
12.504	SLE Q	5	10	0.00	-72627.10	164.14	-2337.38	0.00	12.06	71.17	966.67
12.502	SLE R	5	10	0.00	-85143.70	256.76	-2770.72	0.00	12.06	84.34	1143.54
12.504	SLE Q	5	10	0.00	-72627.10	164.14	-2337.38	0.00	12.06	71.17	966.67
15.262	SLE R	5	10	276.00	-84177.70	-210.63	2735.58	0.00	12.06	82.95	1125.53
15.264	SLE Q	5	10	276.00	-71661.10	-121.65	2312.56	0.00	12.06	69.91	950.21
15.502	SLE R	6	7	0.00	-67939.50	110.62	-2661.61	0.00	12.06	91.04	1220.02
15.504	SLE Q	6	7	0.00	-57771.60	60.53	-2254.42	0.00	12.06	76.76	1030.53
15.502	SLE R	6	7	0.00	-67939.50	110.62	-2661.61	0.00	8.04	96.54	1291.75
15.504	SLE Q	6	7	0.00	-57771.60	60.53	-2254.42	0.00	8.04	81.42	1091.42
18.262	SLE R	6	7	276.00	-67215.00	-122.51	2747.67	0.00	8.04	97.30	1297.49
18.264	SLE Q	6	7	276.00	-57047.10	-69.12	2334.44	0.00	8.04	82.04	1095.70
18.502	SLE R	7	7	0.00	-50910.30	140.71	-2661.64	0.00	8.04	82.48	1078.62
18.504	SLE Q	7	7	0.00	-43108.10	78.21	-2249.12	0.00	8.04	69.11	905.72
18.502	SLE R	7	7	0.00	-50910.30	140.71	-2661.64	0.00	8.04	82.48	1078.62
18.504	SLE Q	7	7	0.00	-43108.10	78.21	-2249.12	0.00	8.04	69.11	905.72
21.262	SLE R	7	7	276.00	-50185.80	-123.60	2938.70	0.00	8.04	85.40	1108.36
21.264	SLE Q	7	7	276.00	-42383.60	-66.06	2498.25	0.00	8.04	71.73	932.06
21.502	SLE R	8	7	0.00	-33897.80	118.97	-2398.64	0.00	8.04	64.36	820.72
21.504	SLE Q	8	7	0.00	-28446.30	59.02	-2021.48	0.00	8.04	53.42	682.76
21.502	SLE R	8	7	0.00	-33897.80	118.97	-2398.64	0.00	6.16	66.41	849.14
21.504	SLE Q	8	7	0.00	-28446.30	59.02	-2021.48	0.00	6.16	55.12	706.32
24.262	SLE R	8	7	276.00	-33173.30	-107.05	3094.33	3.08	3.08	79.25	978.76
24.264	SLE Q	8	7	276.00	-27721.70	-51.89	2616.55	3.08	3.08	66.09	816.18
24.502	SLE R	9	7	0.00	-16929.70	124.73	-2380.98	3.08	3.08	63.52	712.65
24.504	SLE Q	9	7	0.00	-13814.20	59.02	-2033.12	3.08	3.08	53.22	590.65
24.502	SLE R	9	7	0.00	-16929.70	124.73	-2380.98	3.08	3.08	63.52	712.65
24.504	SLE Q	9	7	0.00	-13814.20	59.02	-2033.12	3.08	3.08	53.22	590.65
27.262	SLE R	9	7	276.00	-16205.20	-141.52	4328.53	3.08	3.08	122.29	2723.65
27.264	SLE Q	9	7	276.00	-13089.70	-72.69	3595.76	3.08	3.08	99.95	2294.04

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cm <sup>2</sup> >	ε <sub>sm</sub>	Wk <mm>
24.504	SLE	Q	9	7	0.00	-13814.20	-2033.12	59.02	39.00	208.00	0.50	14.00	150.69	3.08	159.85	565.39	0.16	0.04
24.503	SLE	F	9	7	0.00	-14642.40	-2132.57	77.61	39.00	208.00	0.50	14.00	148.54	3.08	155.13	584.89	0.17	0.04
24.504	SLE	Q	9	7	0.00	-13814.20	-2033.12	59.02	39.00	208.00	0.50	14.00	150.69	3.08	159.85	565.39	0.16	0.04
24.503	SLE	F	9	7	0.00	-14642.40	-2132.57	77.61	39.00	208.00	0.50	14.00	148.54	3.08	155.13	584.89	0.17	0.04
27.264	SLE	Q	9	7	276.00	-13089.70	3595.76	-72.69	39.00	208.00	0.50	14.00	179.76	3.08	223.77	2294.04	0.86	0.26
27.263	SLE	F	9	7	276.00	-13917.90	3805.08	-92.40	39.00	208.00	0.50	14.00	178.97	3.08	222.05	2425.23	0.80	0.24

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<mm>	<mm>						<mm>	<cm>	<daN>		<daN>	<daN>	<daN>	<mm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.50	ø8/20	2	21	SLU	0.50	0.35	348.43	1.00	4947.76	0.00	0.00	0.40	0.45	2431.74	1.00	6357.38	0.00	0.00	0.000	
0.50	2.50	ø8/20	2	21	SLU	0.50	0.35	348.43	1.00	4947.76	0.00	0.00	0.40	0.45	2431.74	1.00	6357.38	0.00	0.00	0.000	
2.50	3.00	ø8/20	2	21	SLU	0.50	0.35	348.43	1.00	4947.76	0.00	0.00	0.40	0.45	2431.74	1.00	6357.38	0.00	0.00	0.000	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	464.79	1.00	3710.82	0.00	0.00	0.40	0.30	2467.60	1.00	3182.21	0.00	0.00	0.000	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	464.79	1.00	3710.82	0.00	0.00	0.40	0.30	2467.60	1.00	3182.21	0.00	0.00	0.000	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	464.79	1.00	3710.82	0.00	0.00	0.40	0.30	2467.60	1.00	3182.21	0.00	0.00	0.000	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	364.65	1.00	3710.82	0.00	0.00	0.40	0.30	2602.55	1.00	3182.21	0.00	0.00	0.000	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	364.65	1.00	3710.82	0.00	0.00	0.40	0.30	2602.55	1.00	3182.21	0.00	0.00	0.000	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	364.65	1.00	3710.82	0.00	0.00	0.40	0.30	2602.55	1.00	3182.21	0.00	0.00	0.000	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	300.98	1.00	3710.82	0.00	0.00	0.40	0.30	2656.12	1.00	3182.21	0.00	0.00	0.000	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	300.98	1.00	3710.82	0.00	0.00	0.40	0.30	2656.12	1.00	3182.21	0.00	0.00	0.000	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	300.98	1.00	3710.82	0.00	0.00	0.40	0.30	2656.12	1.00	3182.21	0.00	0.00	0.000	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	226.06	1.81	6734.45	6734.45	6734.45	0.40	0.30	2711.87	1.98	6289.94	6289.94	6289.94	2.319	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	226.06	1.83	6791.14	6791.14	6791.14	0.40	0.30	2711.87	1.99	6340.95	6340.95	6340.95	2.338	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	226.06	1.89	7013.30	7013.30	7013.30	0.40	0.30	2711.87	2.06	6541.04	6541.04	6541.04	2.412	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	109.02	1.13	2986.13	2986.13	2986.13	0.30	0.30	2664.31	1.00	3182.21	3090.82	3090.82	1.160	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	109.02	1.15	3051.08	3051.08	3051.08	0.30	0.30	2664.31	1.00	3182.21	3166.76	3166.76	1.189	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	109.02	1.24	3298.09	3298.09	3298.09	0.30	0.30	2664.31	1.09	3458.52	3458.52	3458.52	1.298	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	123.58	2.50	6634.02	9807.45	6634.02	0.30	0.30	2758.96	2.50	7955.54	10081.00	7955.54	2.884	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	123.58	2.50	6634.02	9858.40	6634.02	0.30	0.30	2758.96	2.50	7955.54	10133.30	7955.54	2.884	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	123.58	2.50	6634.02	10062.20	6634.02	0.30	0.30	2758.96	2.50	7955.54	10342.80	7955.54	2.884	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	104.78	2.50	6634.02	16455.30	6634.02	0.30	0.30	2706.12	2.50	7955.54	16914.20	7955.54	2.940	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	104.78	2.50	6634.02	16455.30	6634.02	0.30	0.30	2706.12	2.50	7955.54	16914.20	7955.54	2.940	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	104.78	2.50	6634.02	16455.30	6634.02	0.30	0.30	2706.12	2.50	7955.54	16914.20	7955.54	2.940	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	123.66	2.50	6634.02	16234.00	6634.02	0.30	0.30	3306.60	2.50	7955.54	16686.70	7955.54	2.406	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	123.66	2.50	6634.02	16213.60	6634.02	0.30	0.30	3306.60	2.50	7955.54	16665.80	7955.54	2.406	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	123.66	2.50	6634.02	16132.10	6634.02	0.30	0.30	3306.60	2.50	7955.54	16582.00	7955.54	2.406	

Pilastrata n. 13

Nodi: 13 313 513 713 913 1113 1313 1513 1713 1913

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1R		40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94



Stato limite ultimo - Verifiche a flessione/presoflessione

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	α	ε <sub>r</sub>	Sic.
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
9.50	1(e)	SLU	4	10	0.00	-133405.00	-2331.57	-2668.10	-1505.69	-2668.10	-260434.00	-8486.53	-8664.96	217.97	1.19	1.952
9.50	1(e)	SLU	4	10	0.00	-133405.00	-2331.57	-2668.10	-1505.69	-2668.10	-246024.00	-7802.83	-7847.18	220.78	1.07	1.844
12.26	1(e)	SLU	4	10	276.00	-132149.00	2203.71	2642.99	1466.35	2642.99	-246024.00	7843.63	7882.52	40.78	1.09	1.862
12.50	1(e)	SLU	5	10	0.00	-110946.00	-2440.27	-2440.27	-1744.29	-2218.92	-246024.00	-8653.72	-8045.56	219.38	1.52	2.218
12.50	1(e)	SLU	5	10	0.00	-110946.00	-2440.27	-2440.27	-1744.29	-2218.92	-246024.00	-8653.72	-8045.56	219.38	1.52	2.218
15.26	1(e)	SLU	5	10	276.00	-109690.00	2417.83	2417.83	1735.37	2193.80	-246024.00	8676.68	8063.29	39.38	1.54	2.243
18.50	1(e)	SLU	7	7	0.00	-66674.80	-2050.31	-2050.31	-1318.70	-1333.50	-180916.00	-6644.56	-4390.09	225.00	1.86	2.713
18.50	1(e)	SLU	7	7	0.00	-66674.80	-2050.31	-2050.31	-1318.70	-1333.50	-180916.00	-6644.56	-4390.09	225.00	1.86	2.713
21.26	1(e)	SLU	7	7	276.00	-65733.00	2462.35	2462.35	1250.79	1314.66	-180916.00	7185.22	3867.81	40.78	1.91	2.752
21.50	1	SLU	8	7	0.00	-44643.90	-1517.42	-1517.42	-1381.53	-1381.53	-44643.90	-5321.73	-4885.59	232.03	2.80	3.520
21.50	1	SLU	8	7	0.00	-44643.90	-1517.42	-1517.42	-1381.53	-1381.53	-44643.90	-4899.51	-4532.68	232.03	2.84	3.253
24.26	1	SLU	8	7	276.00	-43702.10	2087.06	2087.06	1292.32	1292.32	-43702.10	5963.89	3557.61	42.19	2.94	2.829
24.50	1	SLU	9	7	0.00	-22348.50	-2133.44	-2133.44	-1642.25	-1642.25	-22348.50	-4577.63	-3482.24	227.81	4.42	2.136
24.50	1	SLU	9	7	0.00	-22348.50	-2133.44	-2133.44	-1642.25	-1642.25	-22348.50	-4577.63	-3482.24	227.81	4.42	2.136
27.26	1	SLU	9	7	276.00	-21406.70	3854.29	3854.29	1719.13	1719.13	-21406.70	5430.48	2392.60	30.94	5.14	1.406

Dati per verifiche di stabilità

Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*
<m>		<m>			<m>		<m>			<m>		<m>			<m>		<m>		
---	1	3.50	30.31	29.94	---	1	3.50	30.31	29.94	---	1	3.50	30.31	29.94	---	2	3.00	29.69	26.65
---	2	3.00	29.69	26.65	---	2	3.00	29.69	26.65	---	3	3.00	29.69	28.55	---	3	3.00	29.69	28.55
---	3	3.00	29.69	28.55	---	6	3.00	34.64	32.84	---	6	3.00	34.64	32.84	---	6	3.00	34.64	32.84

Stato limite ultimo - Verifiche a flessione/presoflessione - Controlli di stabilità

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy,s	MRdz,s	α	ε <sub>r</sub>	Sic.
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
0.00	1(e)	SLU	1	1	0.00	-203119.00	-1119.93	-4062.38	-239.35	-4062.38	-347346.00	-11167.60	-11716.10	237.66	0.96	1.710
0.00	1(e)	SLU	1	1	0.00	-203119.00	-1119.93	-4062.38	-239.35	-4062.38	-347346.00	-11167.60	-11716.10	237.66	0.96	1.710
3.26	1(e)	SLU	1	1	326.00	-201000.00	2490.52	4020.00	681.70	4020.00	-347346.00	11258.70	11811.30	57.66	0.99	1.728
3.50	1(e)	SLU	2	10	0.00	-179060.00	-1613.99	-3581.20	-964.70	-3581.20	-260434.00	-6002.49	-5815.38	216.56	0.39	1.454
3.50	1(e)	SLU	2	10	0.00	-179060.00	-1613.99	-3581.20	-964.70	-3581.20	-260434.00	-6002.49	-5815.38	216.56	0.39	1.454
6.26	1(e)	SLU	2	10	276.00	-177804.00	2218.43	3556.09	1010.19	3556.09	-260434.00	6080.61	5884.44	36.56	0.41	1.465
6.50	1(e)	SLU	3	10	0.00	-156103.00	-2329.07	-3122.06	-1265.83	-3122.06	-260434.00	-7313.35	-6963.82	216.56	0.78	1.668
6.50	1(e)	SLU	3	10	0.00	-156103.00	-2329.07	-3122.06	-1265.83	-3122.06	-260434.00	-7313.35	-6963.82	216.56	0.78	1.668
9.26	1(e)	SLU	3	10	276.00	-154847.00	2247.67	3096.94	1261.47	3096.94	-260434.00	7373.14	7013.12	36.56	0.80	1.682
15.50	1(e)	SLU	6	7	0.00	-88609.60	-2130.20	-2130.20	-1013.15	-1772.19	-195325.00	-5727.22	-4773.23	233.44	1.35	2.204
15.50	1(e)	SLU	6	7	0.00	-88609.60	-2130.20	-2130.20	-1013.15	-1772.19	-180916.00	-5191.30	-4209.65	229.22	1.20	2.042
18.26	1(e)	SLU	6	7	276.00	-87667.80	2311.47	2311.47	1085.93	1753.36	-180916.00	5407.66	4070.98	47.81	1.23	2.064

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ <sub>c</sub>	σ <sub>f</sub>
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE	R	1	1	0.00	-145430.00	-175.37	-804.22	0.00	16.09	1036.18
0.00	4	SLE	Q	1	1	0.00	-125788.00	-124.19	-631.45	0.00	16.09	890.22
0.00	2	SLE	R	1	1	0.00	-145430.00	-175.37	-804.22	0.00	16.09	1036.18
0.00	4	SLE	Q	1	1	0.00	-125788.00	-124.19	-631.45	0.00	16.09	890.22
3.26	2	SLE	R	1	1	326.00	-143800.00	499.08	1823.66	0.00	16.09	76.67
3.26	4	SLE	Q	1	1	326.00	-124158.00	377.18	1475.91	0.00	16.09	65.35
3.50	2	SLE	R	2	10	0.00	-128149.00	-705.41	-1168.52	0.00	16.09	96.09
3.50	4	SLE	Q	2	10	0.00	-110642.00	-538.12	-930.40	0.00	16.09	81.55
3.50	2	SLE	R	2	10	0.00	-128149.00	-705.41	-1168.52	0.00	16.09	96.09
3.50	4	SLE	Q	2	10	0.00	-110642.00	-538.12	-930.40	0.00	16.09	81.55
6.26	2	SLE	R	2	10	276.00	-127183.00	738.25	1621.02	0.00	16.09	100.38
6.26	4	SLE	Q	2	10	276.00	-109676.00	567.28	1323.05	0.00	16.09	85.19
6.50	2	SLE	R	3	10	0.00	-111708.00	-923.27	-1690.32	0.00	16.09	93.27
6.50	4	SLE	Q	3	10	0.00	-96323.70	-713.58	-1366.85	0.00	16.09	78.78
6.50	2	SLE	R	3	10	0.00	-111708.00	-923.27	-1690.32	0.00	16.09	93.27
6.50	4	SLE	Q	3	10	0.00	-96323.70	-713.58	-1366.85	0.00	16.09	78.78
9.26	2	SLE	R	3	10	276.00	-110742.00	920.10	1637.63	0.00	16.09	92.12
9.26	4	SLE	Q	3	10	276.00	-95357.70	712.25	1334.01	0.00	16.09	77.85
9.50	2	SLE	R	4	10	0.00	-95457.70	-1096.70	-1689.21	0.00	16.09	84.87
9.50	4	SLE	Q	4	10	0.00	-82173.70	-852.93	-1369.67	0.00	16.09	71.41
9.50	2	SLE	R	4	10	0.00	-95457.70	-1096.70	-1689.21	0.00	12.06	87.72
9.50	4	SLE	Q	4	10	0.00	-82173.70	-852.93	-1369.67	0.00	12.06	73.80
12.26	2	SLE	R	4	10	276.00	-94491.70	1067.73	1601.76	0.00	12.06	85.95
12.26	4	SLE	Q	4	10	276.00	-81207.70	832.20	1304.75	0.00	12.06	72.34
12.50	2	SLE	R	5	10	0.00	-79382.90	-1271.25	-1765.75	0.00	12.06	79.95
12.50	4	SLE	Q	5	10	0.00	-68177.30	-988.07	-1433.47	0.00	12.06	66.86
12.50	2	SLE	R	5	10	0.00	-79382.90	-1271.25	-1765.75	0.00	12.06	79.95
12.50	4	SLE	Q	5	10	0.00	-68177.30	-988.07	-1433.47	0.00	12.06	66.86
15.26	2	SLE	R	5	10	276.00	-78416.90	1267.18	1754.31	0.00	12.06	79.18
15.26	4	SLE	Q	5	10	276.00	-67211.30	981.92	1430.59	0.00	12.06	66.16
15.50	2	SLE	R	6	7	0.00	-63396.70	-737.52	-1539.24	0.00	12.06	83.27
15.50	4	SLE	Q	6	7	0.00	-54256.20	-570.83	-1249.79	0.00	12.06	69.41
15.50	2	SLE	R	6	7	0.00	-63396.70	-737.52	-1539.24	0.00	8.04	87.46
15.50	4	SLE	Q	6	7	0.00	-54256.20	-570.83	-1249.79	0.00	8.04	72.93
18.26	2	SLE	R	6	7	276.00	-62672.20	790.81	1676.48	0.00	8.04	89.60
18.26	4	SLE	Q	6	7	276.00	-53531.70	612.89	1373.56	0.00	8.04	74.71
18.50	2	SLE	R	7	7	0.00	-47715.10	-960.02	-1476.64	0.00	8.04	76.84
18.50	4	SLE	Q	7	7	0.00	-40637.30	-745.41	-1192.76	0.00	8.04	63.37
18.50	2	SLE	R	7	7	0.00	-47715.10	-960.02	-1476.64	0.00	8.04	76.84



Relazione di calcolo

18.50	4	SLE Q	7	7	0.00	-40637.30	-745.41	-1192.76	0.00	8.04	63.37	826.89
21.26	2	SLE R	7	7	276.00	-46990.60	910.54	1783.96	0.00	8.04	79.65	1025.58
21.26	4	SLE Q	7	7	276.00	-39912.80	707.60	1462.30	0.00	8.04	65.85	851.99
21.50	2	SLE R	8	7	0.00	-31962.70	-1005.67	-1085.12	0.00	8.04	58.79	743.85
21.50	4	SLE Q	8	7	0.00	-26958.30	-783.10	-871.66	0.00	8.04	47.88	609.48
21.50	2	SLE R	8	7	0.00	-31962.70	-1005.67	-1085.12	0.00	6.16	60.53	768.40
21.50	4	SLE Q	8	7	0.00	-26958.30	-783.10	-871.66	0.00	6.16	49.29	629.36
24.26	2	SLE R	8	7	276.00	-31238.20	940.72	1507.58	1.54	4.62	65.32	818.85
24.26	4	SLE Q	8	7	276.00	-26233.80	732.55	1234.01	0.00	6.16	53.25	670.85
24.50	2	SLE R	9	7	0.00	-16016.50	-1195.67	-1536.50	1.54	4.62	71.41	796.98
24.50	4	SLE Q	9	7	0.00	-13117.50	-938.27	-1249.86	1.54	4.62	56.79	636.91
24.50	2	SLE R	9	7	0.00	-16016.50	-1195.67	-1536.50	1.54	4.62	71.41	796.98
24.50	4	SLE Q	9	7	0.00	-13117.50	-938.27	-1249.86	1.54	4.62	56.79	636.91
27.26	2	SLE R	9	7	276.00	-15292.00	1251.51	2795.54	3.08	3.08	117.34	1750.38
27.26	4	SLE Q	9	7	276.00	-12393.00	984.75	2275.08	3.08	3.08	94.31	1408.78

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.50	4	SLE Q	9	7	0.00	-13117.50	-1249.86	-938.27	39.00	0.00	0.50	14.00	118.81	1.54	44.87	448.88	0.13	0.03
24.50	3	SLE F	9	7	0.00	-13884.10	-1331.86	-1012.18	39.00	0.00	0.50	14.00	119.51	1.54	45.64	492.05	0.14	0.03
24.50	4	SLE Q	9	7	0.00	-13117.50	-1249.86	-938.27	39.00	0.00	0.50	14.00	118.81	1.54	44.87	448.88	0.13	0.03
24.50	3	SLE F	9	7	0.00	-13884.10	-1331.86	-1012.18	39.00	0.00	0.50	14.00	119.51	1.54	45.64	492.05	0.14	0.03
27.26	4	SLE Q	9	7	276.00	-12393.00	2275.08	984.75	39.00	208.00	0.50	14.00	155.90	1.54	85.66	1408.78	0.49	0.13
27.26	3	SLE F	9	7	276.00	-13159.60	2423.91	1061.65	39.00	208.00	0.50	14.00	155.83	1.54	85.58	1514.77	0.44	0.12

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	b <sub>w,y</sub>	d <sub>r,y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	b <sub>w,z</sub>	d <sub>r,z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<mm>	<mm>						<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	282.53	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1107.50	1.00	6357.38	0.00	0.00	0.000
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	282.53	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1107.50	1.00	6357.38	0.00	0.00	0.000
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	282.53	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1107.50	1.00	6357.38	0.00	0.00	0.000
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	715.54	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1388.56	1.00	3182.21	0.00	0.00	0.000
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	715.54	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1388.56	1.00	3182.21	0.00	0.00	0.000
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	715.54	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1388.56	1.00	3182.21	0.00	0.00	0.000
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	915.69	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1658.24	1.00	3182.21	0.00	0.00	0.000
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	915.69	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1658.24	1.00	3182.21	0.00	0.00	0.000
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	915.69	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1658.24	1.00	3182.21	0.00	0.00	0.000
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	1076.83	1.00	3710.82	884.58	884.58	0.40	0.30	1643.22	1.00	3182.21	866.94	866.94	866.94	0.528
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	1076.83	1.00	3710.82	987.89	987.89	0.40	0.30	1643.22	1.00	3182.21	968.19	968.19	968.19	0.589
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	1076.83	1.00	3710.82	1401.12	1401.12	0.40	0.30	1643.22	1.00	3182.21	1373.18	1373.18	1373.18	0.836
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	1260.75	2.33	8664.24	8664.24	8664.24	0.40	0.30	1760.18	2.50	7955.54	8090.74	7955.54	4.520	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	1260.75	2.35	8708.38	8708.38	8708.38	0.40	0.30	1760.18	2.50	7955.54	8160.57	7955.54	4.520	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	1260.75	2.39	8882.72	8882.72	8882.72	0.40	0.30	1760.18	2.50	7955.54	8439.88	7955.54	4.520	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	760.53	1.88	4989.97	4989.97	4989.97	0.30	0.30	1609.30	1.70	5407.95	5407.95	5407.95	3.360	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	760.53	1.90	5029.10	5029.10	5029.10	0.30	0.30	1609.30	1.71	5452.45	5452.45	5452.45	3.388	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	760.53	1.95	5182.68	5182.68	5182.68	0.30	0.30	1609.30	1.77	5626.94	5626.94	5626.94	3.497	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	930.98	2.50	6634.02	11270.00	6634.02	0.30	0.30	1635.02	2.50	7955.54	11584.30	7955.54	4.866	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	930.98	2.50	6634.02	11321.00	6634.02	0.30	0.30	1635.02	2.50	7955.54	11636.70	7955.54	4.866	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	930.98	2.50	6634.02	11524.80	6634.02	0.30	0.30	1635.02	2.50	7955.54	11846.20	7955.54	4.866	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	968.79	2.50	6634.02	16455.30	6634.02	0.30	0.30	1305.97	2.50	7955.54	16914.20	7955.54	6.092	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	968.79	2.50	6634.02	16455.30	6634.02	0.30	0.30	1305.97	2.50	7955.54	16914.20	7955.54	6.092	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	968.79	2.50	6634.02	16455.30	6634.02	0.30	0.30	1305.97	2.50	7955.54	16914.20	7955.54	6.092	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	1217.89	2.50	6634.02	16065.70	6634.02	0.30	0.30	2169.47	2.50	7955.54	16513.80	7955.54	3.667	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	1217.89	2.50	6634.02	16045.30	6634.02	0.30	0.30	2169.47	2.50	7955.54	16492.80	7955.54	3.667	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	1217.89	2.50	6634.02	15963.80	6634.02	0.30	0.30	2169.47	2.50	7955.54	16409.00	7955.54	3.667	

Pilastrata n. 14

Nodi: 114 314 514 714 914 1114 1314 1514 1714 1914

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1R		40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/prestressolessione

Xg	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1	(e) SLU	1	1	0.00	-158560.00	-755.91	-3171.21	449.54	3171.21	-347346.00	-14157.90	13867.60	123.75	1.62	2.191
0.00	1	(e) SLU	1	1	0.00	-158560.00	-755.91	-3171.21	449.54	3171.21	-347346.00	-14157.90	13867.60	123.75	1.62	2.191
3.26	1	(e) SLU	1	1	326.00	-156441.00	703.50	3128.83	-239.74	-3128.83	-347346.00	14195.10	-13915.30	303.75	1.65	2.220
3.50	1	(e) SLU	2	10	0.00	-141346.00	121.62	2826.92	164.43	2826.92	-260434.00	8231.92	8420.07	37.97	1.04	1.843
3.50	1	(e) SLU	2	10	0.00	-141346.00	121.62	2826.92	164.43	2826.92	-260434.00	8231.92	8420.07	37.97	1.04	1.843
6.26	1	(e) SLU	2	10	276.00	-140090.00	563.75	2801.81	-159.27	-2801.81	-260434.00	8274.58	-8460.91	322.03	1.07	1.859
6.50	1	(e) SLU	3	10	0.00	-124379.00	-306.87	-2487.58	150.23	2487.58	-260434.00	-8739.82	8900.17	142.03	1.36	2.094
6.50	1	(e) SLU	3	10	0.00	-124379.00	-306.87	-2487.58	150.23	2487.58	-260434.00	-8739.82	8900.17	142.03	1.36	2.094
9.26	1	(e) SLU	3	10	276.00	-123123.00	426.70	2462.46	-129.06	-2462.46	-260434.00	8772.57	-8926.78	322.03	1.38	2.115
9.50	1	(e) SLU	4	10	0.00	-106862.00	-402.13	-2137.25	97.84	2137.25	-260434.00	-9087.37	9210.09	142.03	1.69	2.437
9.50	1	(e) SLU	4	10	0.00	-106862.00	-402.13	-2137.25	97.84	2137.25	-260424.00	-8451.63	8395.38	139.22	1.60	2.302
12.26	1	(e) SLU	4	10	276.00	-105607.00	381.63	2112.13	-83.62	-2112.13	-260424.00	8472.13	-8413.03	319.22	1.63	2.330
12.50	1	(e) SLU	5	10	0.00	-88875.50	-433.90	-1777.51	73.74	1777.51	-260424.00	-8546.79	8408.29	139.22	2.03	2.768
12.50	1	(e) SLU	5	10	0.00	-88875.50	-433.90	-1777.51	73.74	1777.51	-260424.00	-8546.79	8408.29	139.22	2.03	2.768
15.26	1	(e) SLU	5	10	276.00	-87619.70	446.40	1752.39	-63.54	-1752.39	-260424.00	8541.25	-8394.57	319.22	2.06	2.808
15.50	1	(e) SLU	6	7	0.00	-70865.50	-433.07	-1417.31	6.29	1417.31	-195325.00	-5787.83	5936.40	122.34	1.82	2.756
15.50	1	(e) SLU	6	7	0.00	-70865.50	-433.07	-1417.31	6.29	1417.31	-180916.00	-5417.06	5443.20	126.56	1.71	2.553
18.26	1	(e) SLU	6	7	276.00	-69923.70	712.85	1398.47	2.88	1398.47	-180916.00	5427.79	5452.54	53.44	1.74	2.587
18.50	1	(e) SLU	7	7	0.00	-53222.70	-248.87	-1064.45	-13.58	-1064.45	-180916.00	-5268.78	-5239.80	233.44	2.40	3.399



Relazione di calcolo

18.50	1(e)	SLU	7	7	0.00	-53222.70	-248.87	-1064.45	-13.58	-1064.45	-180916.00	-5268.80	-5239.80	233.44	2.40	3.399
21.26	1(e)	SLU	7	7	276.00	-52280.80	1013.48	1045.62	19.51	1045.62	-180916.00	5256.63	5220.71	53.44	2.44	3.460
21.50	1(e)	SLU	8	7	0.00	-35298.40	24.32	705.97	-42.86	-705.97	-180916.00	4755.33	-4892.14	305.16	3.34	5.125
21.50	1(e)	SLU	8	7	0.00	-35298.40	24.32	705.97	-42.86	-705.97	-174161.00	4508.88	-4369.84	306.56	3.41	4.934
24.26	1(e)	SLU	8	7	276.00	-34356.60	1260.45	1260.45	40.55	687.13	-34356.60	5857.04	3136.06	39.38	3.57	4.628
24.50	1(e)	SLU	9	7	0.00	-17158.40	33.88	343.17	-101.44	-343.17	-174161.00	3759.26	-3785.26	305.16	4.93	10.150
24.50	1(e)	SLU	9	7	0.00	-17158.40	33.88	343.17	-101.44	-343.17	-174161.00	3759.26	-3785.26	305.16	4.93	10.150
27.26	1(e)	SLU	9	7	276.00	-16216.60	2145.17	2145.17	116.31	324.33	-16216.60	5328.37	882.15	8.44	9.85	2.489

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.00	2	SLE R	1	1	0.00	-112652.00	321.77	-540.72	0.00	16.09	55.10	811.35
0.00	4	SLE Q	1	1	0.00	-98764.30	273.11	-457.04	0.00	16.09	48.16	709.61
0.00	2	SLE R	1	1	0.00	-112652.00	321.77	-540.72	0.00	16.09	55.10	811.35
0.00	4	SLE Q	1	1	0.00	-98764.30	273.11	-457.04	0.00	16.09	48.16	709.61
3.26	2	SLE R	1	1	326.00	-111022.00	-170.85	523.02	0.00	16.09	53.30	788.13
3.26	4	SLE Q	1	1	326.00	-97134.30	-143.48	444.94	0.00	16.09	46.53	688.32
3.50	2	SLE R	2	10	0.00	-100399.00	116.75	95.81	0.00	16.09	63.16	939.93
3.50	4	SLE Q	2	10	0.00	-87783.80	95.47	93.61	0.00	16.09	55.27	822.26
3.50	2	SLE R	2	10	0.00	-100399.00	116.75	95.81	0.00	16.09	63.16	939.93
3.50	4	SLE Q	2	10	0.00	-87783.80	95.47	93.61	0.00	16.09	55.27	822.26
6.26	2	SLE R	2	10	276.00	-99433.10	-111.89	417.96	0.00	16.09	65.80	966.46
6.26	4	SLE Q	2	10	276.00	-86817.80	-90.23	352.86	0.00	16.09	57.26	841.75
6.50	2	SLE R	3	10	0.00	-88361.20	104.66	-220.72	0.00	16.09	56.99	842.60
6.50	4	SLE Q	3	10	0.00	-77108.40	81.78	-176.68	0.00	16.09	49.49	732.57
6.50	2	SLE R	3	10	0.00	-88361.20	104.66	-220.72	0.00	16.09	56.99	842.60
6.50	4	SLE Q	3	10	0.00	-77108.40	81.78	-176.68	0.00	16.09	49.49	732.57
9.26	2	SLE R	3	10	276.00	-87395.20	-88.62	316.32	0.00	16.09	57.23	842.80
9.26	4	SLE Q	3	10	276.00	-76142.40	-67.42	267.05	0.00	16.09	49.69	732.35
9.50	2	SLE R	4	10	0.00	-75921.80	65.50	-291.03	0.00	16.09	49.78	732.81
9.50	4	SLE Q	4	10	0.00	-66106.10	45.48	-236.88	0.00	16.09	43.08	635.07
9.50	2	SLE R	4	10	0.00	-75921.80	65.50	-291.03	0.00	12.06	51.58	759.72
9.50	4	SLE Q	4	10	0.00	-66106.10	45.48	-236.88	0.00	12.06	44.64	658.42
12.26	2	SLE R	4	10	276.00	-74955.80	-54.77	282.10	0.00	12.06	50.78	748.41
12.26	4	SLE Q	4	10	276.00	-65140.10	-36.01	235.46	0.00	12.06	43.93	648.09
12.50	2	SLE R	5	10	0.00	-63138.20	46.32	-314.72	0.00	12.06	43.56	639.01
12.50	4	SLE Q	5	10	0.00	-54825.20	26.49	-259.34	0.00	12.06	37.55	551.86
12.50	2	SLE R	5	10	0.00	-63138.20	46.32	-314.72	0.00	12.06	43.56	639.01
12.50	4	SLE Q	5	10	0.00	-54825.20	26.49	-259.34	0.00	12.06	37.55	551.86
15.26	2	SLE R	5	10	276.00	-62172.20	-37.64	328.89	0.00	12.06	43.01	630.50
15.26	4	SLE Q	5	10	276.00	-53859.20	-17.84	276.50	0.00	12.06	37.04	543.68
15.50	2	SLE R	6	7	0.00	-50335.10	2.15	-314.07	0.00	12.06	44.94	657.80
15.50	4	SLE Q	6	7	0.00	-43529.40	-6.21	-255.54	0.00	12.06	38.73	567.34
15.50	2	SLE R	6	7	0.00	-50335.10	2.15	-314.07	0.00	8.04	47.36	692.83
15.50	4	SLE Q	6	7	0.00	-43529.40	-6.21	-255.54	0.00	8.04	40.81	597.46
18.26	2	SLE R	6	7	276.00	-49610.60	5.59	523.97	0.00	8.04	49.69	715.88
18.26	4	SLE Q	6	7	276.00	-42804.90	13.88	441.21	0.00	8.04	42.88	617.55
18.50	2	SLE R	7	7	0.00	-37812.70	-14.39	-178.32	0.00	8.04	34.99	513.91
18.50	4	SLE Q	7	7	0.00	-32503.10	-23.51	-140.27	0.00	8.04	30.08	441.66
18.50	2	SLE R	7	7	0.00	-37812.70	-14.39	-178.32	0.00	8.04	34.99	513.91
18.50	4	SLE Q	7	7	0.00	-32503.10	-23.51	-140.27	0.00	8.04	30.08	441.66
21.26	2	SLE R	7	7	276.00	-37088.20	17.75	744.01	0.00	8.04	42.25	590.92
21.26	4	SLE Q	7	7	276.00	-31778.60	28.08	625.27	0.00	8.04	36.21	506.33
21.50	2	SLE R	8	7	0.00	-25084.60	-36.08	21.70	0.00	8.04	22.32	330.79
21.50	4	SLE Q	8	7	0.00	-21310.80	-42.34	20.12	0.00	8.04	19.18	283.25
21.50	2	SLE R	8	7	0.00	-25084.60	-36.08	21.70	0.00	6.16	22.88	339.15
21.50	4	SLE Q	8	7	0.00	-21310.80	-42.34	20.12	0.00	6.16	19.66	290.44
24.26	2	SLE R	8	7	276.00	-24360.00	34.22	924.90	0.00	6.16	35.11	471.91
24.26	4	SLE Q	8	7	276.00	-20586.30	40.25	775.42	0.00	6.16	29.77	399.81
24.50	2	SLE R	9	7	0.00	-12198.70	-80.67	27.45	0.00	6.16	12.43	178.69
24.50	4	SLE Q	9	7	0.00	-9991.52	-83.75	20.22	0.00	6.16	10.45	149.11
24.50	2	SLE R	9	7	0.00	-12198.70	-80.67	27.45	0.00	6.16	12.43	178.69
24.50	4	SLE Q	9	7	0.00	-9991.52	-83.75	20.22	0.00	6.16	10.45	149.11
27.26	2	SLE R	9	7	276.00	-11474.20	92.23	1572.07	3.08	3.08	42.05	474.85
27.26	4	SLE Q	9	7	276.00	-9267.02	94.87	1299.76	3.08	3.08	35.45	397.21

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
27.26	4	SLE Q	9	7	276.00	-9267.02	1299.76	94.87	39.00	208.00	0.50	14.00	199.54	1.54	133.64	343.42	0.10	0.03
27.26	3	SLE F	9	7	276.00	-9835.50	1377.57	94.25	39.00	208.00	0.50	14.00	201.05	1.54	135.30	360.70	0.11	0.04

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <cm>	d <sub>y</sub> <cm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <cm>	d <sub>z</sub> <cm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	211.43	2.43	12017.20	12017.20	12017.20	12017.20	0.40	0.45	447.67	2.13	13515.00	13515.00	13515.00	30.190
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	211.43	2.44	12088.80	12088.80	12088.80	12088.80	0.40	0.45	447.67	2.14	13599.00	13599.00	13599.00	30.377
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	211.43	2.50	12369.40	12372.00	12369.40	12369.40	0.40	0.45	447.67	2.19	13930.10	13930.10	13930.10	31.117
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	117.28	1.00	3710.82	0.00	0.00	0.40	0.30	160.19	1.00	3182.21	0.00	0.00	0.000	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	117.28	1.00	3710.82	0.00	0.00	0.40	0.30	160.19	1.00	3182.21	0.00	0.00	0.000	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	117.28	1.00	3710.82	0.00	0.00	0.40	0.30	160.19	1.00	3182.21	0.00	0.00	0.000	



Relazione di calcolo

6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	101.19	1.37	5085.34	5085.34	5085.34	0.40	0.30	265.79	1.51	4814.69	4814.69	4814.69	18.115
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	101.19	1.39	5160.18	5160.18	5160.18	0.40	0.30	265.79	1.53	4881.15	4881.15	4881.15	18.365
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	101.19	1.47	5449.25	5449.25	5449.25	0.40	0.30	265.79	1.61	5138.40	5138.40	5138.40	19.333
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	65.75	2.50	9277.05	9645.47	9277.05	0.40	0.30	283.97	2.50	7955.54	9453.11	7955.54	28.015
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	65.75	2.50	9277.05	9716.72	9277.05	0.40	0.30	283.97	2.50	7955.54	9522.94	7955.54	28.015
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	65.75	2.50	9277.05	10001.70	9277.05	0.40	0.30	283.97	2.50	7955.54	9802.25	7955.54	28.015
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	49.74	2.50	9277.05	15768.40	9277.05	0.40	0.30	318.95	2.50	7955.54	15453.90	7955.54	24.943
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	49.74	2.50	9277.05	15839.60	9277.05	0.40	0.30	318.95	2.50	7955.54	15523.70	7955.54	24.943
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	49.74	2.50	9277.05	16124.60	9277.05	0.40	0.30	318.95	2.50	7955.54	15800.00	7955.54	24.943
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	1.24	2.50	6634.02	9909.87	6634.02	0.30	0.30	415.19	2.50	7955.54	10186.20	7955.54	19.161
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	1.24	2.50	6634.02	9960.82	6634.02	0.30	0.30	415.19	2.50	7955.54	10238.60	7955.54	19.161
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	1.24	2.50	6634.02	10164.60	6634.02	0.30	0.30	415.19	2.50	7955.54	10448.10	7955.54	19.161
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	11.99	2.50	6634.02	15636.20	6634.02	0.30	0.30	457.37	2.50	7955.54	16072.30	7955.54	17.394
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	11.99	2.50	6634.02	15687.10	6634.02	0.30	0.30	457.37	2.50	7955.54	16124.60	7955.54	17.394
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	11.99	2.50	6634.02	15890.90	6634.02	0.30	0.30	457.37	2.50	7955.54	16334.10	7955.54	17.394
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	30.22	2.50	6634.02	16455.30	6634.02	0.30	0.30	447.87	2.50	7955.54	16914.20	7955.54	17.763
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	30.22	2.50	6634.02	16455.30	6634.02	0.30	0.30	447.87	2.50	7955.54	16914.20	7955.54	17.763
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	30.22	2.50	6634.02	16455.30	6634.02	0.30	0.30	447.87	2.50	7955.54	16914.20	7955.54	17.763
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	78.89	2.50	6634.02	15391.90	6634.02	0.30	0.30	764.96	2.50	7955.54	15821.10	7955.54	10.400
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	78.89	2.50	6634.02	15371.50	6634.02	0.30	0.30	764.96	2.50	7955.54	15800.20	7955.54	10.400
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	78.89	2.50	6634.02	15290.00	6634.02	0.30	0.30	764.96	2.50	7955.54	15716.40	7955.54	10.400

Pilastrata n. 15

Nodi: 115 315 515 715 915 1115 1315 1515 1715 1915

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
1R		40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-194206.00	-1787.98	-3884.12	784.99	3884.12	-347346.00	-13160.10	12732.80	123.75	1.09	1.789
0.00	1(e)	SLU	1	1	0.00	-194206.00	-1787.98	-3884.12	784.99	3884.12	-347346.00	-13160.10	12732.80	123.75	1.09	1.789
3.26	1(e)	SLU	1	1	326.00	-192087.00	3806.44	3841.74	-1136.45	-3841.74	-347346.00	13234.50	-12815.50	303.75	1.12	1.808
9.50	1(e)	SLU	4	10	0.00	-127451.00	-2974.59	-2974.59	1985.31	2549.01	-260434.00	-9383.72	7837.44	146.25	1.29	2.043
9.50	1(e)	SLU	4	10	0.00	-127451.00	-2974.59	-2974.59	1985.31	2549.01	-246024.00	-8466.28	7453.13	142.03	1.18	1.930
12.26	1(e)	SLU	4	10	276.00	-126195.00	2717.72	2717.72	-1915.92	-2523.90	-246024.00	8258.78	-7761.42	320.62	1.20	1.950
12.50	1	SLU	5	10	0.00	-105695.00	-2291.14	-2291.14	2259.62	2259.62	-246024.00	-9572.20	7189.49	144.84	1.62	2.328
12.50	1	SLU	5	10	0.00	-105695.00	-2291.14	-2291.14	2259.62	2259.62	-246024.00	-9572.20	7189.49	144.84	1.62	2.328
15.26	1	SLU	5	10	276.00	-104440.00	2844.08	2844.08	-2233.45	-2233.45	-246024.00	9331.10	-7522.04	323.44	1.65	2.356
18.50	1	SLU	7	7	0.00	-62880.70	-2617.97	-2617.97	1639.46	1639.46	-62880.70	-6791.63	4187.31	136.41	2.01	2.583
18.50	1	SLU	7	7	0.00	-62880.70	-2617.97	-2617.97	1639.46	1639.46	-62880.70	-6791.63	4187.31	136.41	2.01	2.583
21.26	1	SLU	7	7	276.00	-61938.90	3434.55	3434.55	-1551.74	-1551.74	-61938.90	7614.74	-3356.70	323.44	2.09	2.208
21.50	1	SLU	8	7	0.00	-41745.10	-2173.57	-2173.57	1680.15	1680.15	-41745.10	-5777.26	4381.05	132.19	2.95	2.639
21.50	1	SLU	8	7	0.00	-41745.10	-2173.57	-2173.57	1680.15	1680.15	-41745.10	-5299.51	4062.71	132.19	3.01	2.431
24.26	1	SLU	8	7	276.00	-40803.30	4136.97	4136.97	-1577.99	-1577.99	-40803.30	6678.06	-2674.70	326.25	3.26	1.625
24.50	1	SLU	9	7	0.00	-20604.60	-1515.74	-1515.74	1917.12	1917.12	-20604.60	-3384.53	4282.73	119.53	4.71	2.234
24.50	1	SLU	9	7	0.00	-20604.60	-1515.74	-1515.74	1917.12	1917.12	-20604.60	-3384.53	4282.73	119.53	4.71	2.234
27.26	1	SLU	9	7	276.00	-19662.80	5024.52	5024.52	-2008.75	-2008.75	-19662.80	5332.52	-2236.24	331.88	5.62	1.069

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	2	3.00	29.69	27.26	---	2	3.00	29.69	27.26	---	2	3.00	29.69	27.26	---	3	3.00	29.69	29.20
---	3	3.00	29.69	29.20	---	3	3.00	29.69	29.20	---	6	3.00	34.64	33.72	---	6	3.00	34.64	33.72
---	6	3.00	34.64	33.72															

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
3.50	1(e)	SLU	2	10	0.00	-171219.00	-2115.14	-3424.38	1477.07	3424.38	-260434.00	-6478.02	6229.37	143.44	0.52	1.521
3.50	1(e)	SLU	2	10	0.00	-171219.00	-2115.14	-3424.38	1477.07	3424.38	-260434.00	-6478.02	6229.37	143.44	0.52	1.521
6.26	1(e)	SLU	2	10	276.00	-169963.00	2944.46	3399.26	-1458.36	-3399.26	-260434.00	6548.53	-6292.64	323.44	0.54	1.532
6.50	1(e)	SLU	3	10	0.00	-149278.00	-2779.77	-2985.57	1738.66	2985.57	-260434.00	-7416.81	7544.08	142.03	0.90	1.745
6.50	1(e)	SLU	3	10	0.00	-149278.00	-2779.77	-2985.57	1738.66	2985.57	-260434.00	-7416.81	7544.08	142.03	0.90	1.745
9.26	1(e)	SLU	3	10	276.00	-148022.00	2742.18	2960.45	-1713.54	-2960.45	-260434.00	7464.82	-7588.31	322.03	0.92	1.759
15.50	1(e)	SLU	6	7	0.00	-84061.30	-2792.40	-2792.40	1265.04	1681.23	-195325.00	-6934.87	4042.71	133.59	1.47	2.324
15.50	1(e)	SLU	6	7	0.00	-84061.30	-2792.40	-2792.40	1265.04	1681.23	-180916.00	-6220.76	3520.67	137.81	1.33	2.152
18.26	1(e)	SLU	6	7	276.00	-83119.40	2983.62	2983.62	-1348.60	-1662.39	-83119.40	6417.52	-3370.75	319.22	1.36	2.122

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>	
0.00	2	SLE	R	1	1	0.00	-138576.00	573.59	-1309.37	0.00	16.09	72.21	1051.20
0.00	4	SLE	Q	1	1	0.00	-119245.00	458.20	-1108.93	0.00	16.09	61.81	900.83
0.00	2	SLE	R	1	1	0.00	-138576.00	573.59	-1309.37	0.00	16.09	72.21	1051.20
0.00	4	SLE	Q	1	1	0.00	-119245.00	458.20	-1108.93	0.00	16.09	61.81	900.83
3.26	2	SLE	R	1	1	326.00	-136946.00	-830.38	2814.01	0.00	16.09	80.80	1152.63
3.26	4	SLE	Q	1	1	326.00	-117615.00	-657.20	2376.62	0.00	16.09	68.83	983.28
3.50	2	SLE	R	2	10	0.00	-122114.00	1078.09	-1553.26	0.00	16.09	99.57	1396.88
3.50	4	SLE	Q	2	10	0.00	-104903.00	854.94	-1292.47	0.00	16.09	84.49	1188.21
3.50	2	SLE	R	2	10	0.00	-122114.00	1078.09	-1553.26	0.00	16.09	99.57	1396.88



Relazione di calcolo

3.504	SLE Q	2	10	0.00	-104903.00	854.94	-1292.47	0.00	16.09	84.49	1188.21
6.262	SLE R	2	10	276.00	-121148.00	-1063.72	2174.21	0.00	16.09	105.15	1455.70
6.264	SLE Q	2	10	276.00	-103937.00	-843.59	1832.03	0.00	16.09	89.27	1238.28
6.502	SLE R	3	10	0.00	-106452.00	1268.52	-2044.15	0.00	16.09	96.67	1327.44
6.504	SLE Q	3	10	0.00	-91343.50	1006.72	-1703.70	0.00	16.09	81.72	1125.25
6.502	SLE R	3	10	0.00	-106452.00	1268.52	-2044.15	0.00	16.09	96.67	1327.44
6.504	SLE Q	3	10	0.00	-91343.50	1006.72	-1703.70	0.00	16.09	81.72	1125.25
9.262	SLE R	3	10	276.00	-105486.00	-1249.68	2024.03	0.00	16.09	95.71	1314.49
9.264	SLE Q	3	10	276.00	-90377.50	-992.28	1700.51	0.00	16.09	80.98	1114.62
9.502	SLE R	4	10	0.00	-90873.10	1447.88	-2188.68	0.00	16.09	90.21	1219.12
9.504	SLE Q	4	10	0.00	-77849.80	1150.91	-1830.30	0.00	16.09	76.04	1030.46
9.502	SLE R	4	10	0.00	-90873.10	1447.88	-2188.68	0.00	12.06	93.15	1260.34
9.504	SLE Q	4	10	0.00	-77849.80	1150.91	-1830.30	0.00	12.06	78.51	1065.18
12.262	SLE R	4	10	276.00	-89907.10	-1396.55	2005.03	0.00	12.06	90.20	1225.26
12.264	SLE Q	4	10	276.00	-76883.80	-1111.31	1681.89	0.00	12.06	76.03	1035.28
12.502	SLE R	5	10	0.00	-75347.00	1648.59	-2201.41	0.00	12.06	85.33	1135.88
12.504	SLE Q	5	10	0.00	-64397.10	1308.39	-1842.23	0.00	12.06	71.59	955.69
12.502	SLE R	5	10	0.00	-75347.00	1648.59	-2201.41	0.00	12.06	85.33	1135.88
12.504	SLE Q	5	10	0.00	-64397.10	1308.39	-1842.23	0.00	12.06	71.59	955.69
15.262	SLE R	5	10	276.00	-74381.00	-1630.55	2097.69	0.00	12.06	83.50	1113.24
15.264	SLE Q	5	10	276.00	-63431.10	-1289.36	1759.94	0.00	12.06	69.97	935.34
15.502	SLE R	6	7	0.00	-59910.50	926.97	-2055.39	0.00	12.06	90.14	1174.89
15.504	SLE Q	6	7	0.00	-51019.20	731.78	-1720.25	0.00	12.06	75.44	986.58
15.502	SLE R	6	7	0.00	-59910.50	926.97	-2055.39	0.00	8.04	94.70	1234.95
15.504	SLE Q	6	7	0.00	-51019.20	731.78	-1720.25	0.00	8.04	79.29	1037.40
18.262	SLE R	6	7	276.00	-59186.00	-987.34	2199.97	0.00	8.04	97.06	1257.73
18.264	SLE Q	6	7	276.00	-50294.70	-779.71	1853.31	0.00	8.04	81.29	1056.33
18.502	SLE R	7	7	0.00	-44819.20	1199.64	-1927.08	0.00	8.04	84.67	1069.75
18.504	SLE Q	7	7	0.00	-37977.70	948.17	-1606.33	0.00	8.04	70.19	890.26
18.502	SLE R	7	7	0.00	-44819.20	1199.64	-1927.08	0.00	8.04	84.67	1069.75
18.504	SLE Q	7	7	0.00	-37977.70	948.17	-1606.33	0.00	8.04	70.19	890.26
21.262	SLE R	7	7	276.00	-44094.70	-1135.26	2531.13	2.01	6.03	92.24	1149.62
21.264	SLE Q	7	7	276.00	-37253.20	-897.73	2133.24	2.01	6.03	76.69	958.59
21.502	SLE R	8	7	0.00	-29760.70	1229.09	-1600.53	2.01	6.03	69.67	849.99
21.504	SLE Q	8	7	0.00	-24960.80	972.06	-1332.98	2.01	6.03	57.04	698.75
21.502	SLE R	8	7	0.00	-29760.70	1229.09	-1600.53	1.54	4.62	72.01	881.68
21.504	SLE Q	8	7	0.00	-24960.80	972.06	-1332.98	1.54	4.62	58.93	724.45
24.262	SLE R	8	7	276.00	-29036.20	-1154.32	3046.71	3.08	3.08	104.84	1210.92
24.264	SLE Q	8	7	276.00	-24236.30	-913.24	2548.74	3.08	3.08	86.23	998.16
24.502	SLE R	9	7	0.00	-14698.60	1401.04	-1118.39	3.08	3.08	68.23	749.90
24.504	SLE Q	9	7	0.00	-11938.70	1109.25	-954.58	3.08	3.08	55.63	612.31
24.502	SLE R	9	7	0.00	-14698.60	1401.04	-1118.39	3.08	3.08	68.23	749.90
24.504	SLE Q	9	7	0.00	-11938.70	1109.25	-954.58	3.08	3.08	55.63	612.31
27.262	SLE R	9	7	276.00	-13974.10	-1468.04	3699.89	3.08	3.08	158.32	3057.65
27.264	SLE Q	9	7	276.00	-11214.20	-1165.95	3081.93	3.08	3.08	130.20	2571.80

Stato limite d'esercizio - Verifiche a fessurazione

Xg	CC	TCC	El	Sez.	X	N	My	Mz	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
<mm>					<cm>	<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
24.504	SLE	Q	9	7	0.00	-11938.70	-954.58	1109.25	39.00	0.00	0.50	14.00	123.76	1.54	50.31	485.79	0.14	0.03
24.503	SLE	F	9	7	0.00	-12665.70	-1001.41	1192.74	39.00	0.00	0.50	14.00	124.28	1.54	50.89	522.21	0.15	0.03
24.504	SLE	Q	9	7	0.00	-11938.70	-954.58	1109.25	39.00	0.00	0.50	14.00	123.76	1.54	50.31	485.79	0.14	0.03
24.503	SLE	F	9	7	0.00	-12665.70	-1001.41	1192.74	39.00	0.00	0.50	14.00	124.28	1.54	50.89	522.21	0.15	0.03
27.264	SLE	Q	9	7	276.00	-11214.20	3081.93	-1165.95	39.00	208.00	0.50	14.00	181.03	1.54	113.29	2571.80	0.99	0.31
27.263	SLE	F	9	7	276.00	-11941.20	3258.53	-1252.75	39.00	208.00	0.50	14.00	179.94	1.54	112.09	2720.06	0.94	0.29

Stato limite ultimo - Verifiche a taglio

X0 <mm>	X1 <mm>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <mm>	d <sub>y</sub> <mm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <mm>	d <sub>z</sub> <mm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	589.40	1.00	4947.76	0.00	0.00	0.40	0.45	1716.08	1.00	6357.38	0.00	0.00	0.00	0.000
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	589.40	1.00	4947.76	0.00	0.00	0.40	0.45	1716.08	1.00	6357.38	0.00	0.00	0.00	0.000
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	589.40	1.00	4947.76	344.80	344.80	0.40	0.45	1716.08	1.00	6357.38	354.43	354.43	0.207	0.207
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	1063.56	1.00	3710.82	0.00	0.00	0.40	0.30	1833.19	1.00	3182.21	0.00	0.00	0.00	0.000
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	1063.56	1.00	3710.82	0.00	0.00	0.40	0.30	1833.19	1.00	3182.21	0.00	0.00	0.00	0.000
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	1063.56	1.00	3710.82	0.00	0.00	0.40	0.30	1833.19	1.00	3182.21	0.00	0.00	0.00	0.000
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	1250.80	1.00	3710.82	0.00	0.00	0.40	0.30	2000.70	1.00	3182.21	0.00	0.00	0.00	0.000
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	1250.80	1.00	3710.82	0.00	0.00	0.40	0.30	2000.70	1.00	3182.21	0.00	0.00	0.00	0.000
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	1250.80	1.00	3710.82	0.00	0.00	0.40	0.30	2000.70	1.00	3182.21	0.00	0.00	0.00	0.000
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	1413.49	1.03	3822.00	3822.00	3822.00	0.40	0.30	2062.43	1.16	3704.54	3704.54	3704.54	1.796	1.796
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	1413.49	1.06	3921.03	3921.03	3921.03	0.40	0.30	2062.43	1.19	3790.52	3790.52	3790.52	1.838	1.838
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	1413.49	1.16	4294.33	4294.33	4294.33	0.40	0.30	2062.43	1.29	4116.50	4116.50	4116.50	1.996	1.996
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	1627.92	2.50	9277.05	10042.70	9277.05	0.40	0.30	2114.21	2.50	7955.54	9842.42	7955.54	3.763	3.763
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	1627.92	2.50	9277.05	10113.90	9277.05	0.40	0.30	2114.21	2.50	7955.54	9912.25	7955.54	3.763	3.763
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	1627.92	2.50	9277.05	10398.90	9277.05	0.40	0.30	2114.21	2.50	7955.54	10191.50	7955.54	3.763	3.763
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	946.97	2.27	6021.64	6021.64	6021.64	0.30	0.30	2092.76	2.07	6576.43	6576.42	6576.42	3.142	3.142
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	946.97	2.28	6054.11	6054.11	6054.11	0.30	0.30	2092.76	2.08	6613.07	6613.07	6613.07	3.160	3.160
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	946.97	2.33	6182.28	6182.28	6182.28	0.30	0.30	2092.76	2.12	6757.65	6757.65	6757.65	3.229	3.229
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	1156.23	2.50	6634.02	12501.50	6634.02	0.30	0.30	2192.94	2.50	7955.54	12850.10	7955.54	3.628	3.628
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	1156.23	2.50	6634.02	12552.40	6634.02	0.30	0.30	2192.94	2.50	7955.54	12902.50	7955.54	3.628	3.628
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	1156.23	2.50	6634.02	12756.20	6634.02	0.30	0.30	2192.94	2.50	7955.54	13112.00	7955.54	3.628	3.628
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	1180.49	2.50	6634.02	16455.30	6634.02	0.30	0.30	2286.43	2.50	7955.54	16914.20	7955.54	3.479	3.479
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	1180.49	2.50	6634.02	16455.30	6634.02	0.30	0.30	2286.43	2.50	7955.54	16914.20	7955.54	3.479	3.479
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	1180.49	2.50	6634.02	16455.30	6634.02	0.30	0.30	2286.43	2.50	7955.54	16914.20	7955.54	3.479	3.479
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	1422.42	2.50	6634.02	15839.30	6634.02	0.30	0.30	2369.66	2.50	7955.54	16281.00	7955.54	3.357	3.357
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	1422.42	2.50	6634.02	15818.90	6634.02	0.30	0.30	2369.66	2.50	7955.54	16260.10	7955.54	3.357	3.357
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	1422.42	2.50	6634.02	15737.40	6634.02	0.30	0.30	2369.66	2.50	7955.54	16176.30	7955.54	3.357	3.357



Pilastrata n. 16

Nodi: 116 316 516 716 916 1116 1316 1516 1716 1916

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1	R	40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
9.50	1(e)	SLU	4	10	0.00	-142112.00	-3871.30	-3871.30	142.16	2842.24	-260434.00	-9320.90	6900.33	149.06	1.01	1.833
9.50	1(e)	SLU	4	10	0.00	-142112.00	-3871.30	-3871.30	142.16	2842.24	-246024.00	-8566.51	6292.20	146.25	0.88	1.731
12.26	1(e)	SLU	4	10	276.00	-140856.00	3520.69	3520.69	-162.92	-2817.13	-246024.00	8413.51	-6584.67	324.84	0.91	1.747
12.50	1(e)	SLU	5	10	0.00	-118299.00	-3835.67	-3835.67	309.20	2365.98	-246024.00	-9944.48	6106.96	149.06	1.33	2.080
12.50	1(e)	SLU	5	10	0.00	-118299.00	-3835.67	-3835.67	309.20	2365.98	-246024.00	-9944.48	6106.96	149.06	1.33	2.080
15.26	1(e)	SLU	5	10	276.00	-117043.00	3655.91	3655.91	-368.94	-2340.87	-246024.00	9759.69	-6434.01	327.66	1.37	2.102
18.50	1(e)	SLU	7	7	0.00	-70655.20	-3526.78	-3526.78	245.02	1413.10	-70655.20	-8004.93	3088.00	146.25	1.76	2.258
18.50	1(e)	SLU	7	7	0.00	-70655.20	-3526.78	-3526.78	245.02	1413.10	-70655.20	-8004.93	3088.00	146.25	1.76	2.258
21.26	1(e)	SLU	7	7	276.00	-69713.40	4460.62	4460.62	-242.32	1394.27	-69713.40	8416.81	2615.91	29.53	1.82	1.886
21.50	1(e)	SLU	8	7	0.00	-47029.30	-2824.26	-2824.26	283.04	-940.59	-47029.30	-7835.36	-2606.53	210.94	2.89	2.774
21.50	1(e)	SLU	8	7	0.00	-47029.30	-2824.26	-2824.26	283.04	-940.59	-47029.30	-7178.19	-2442.76	210.94	2.93	2.547
24.26	1(e)	SLU	8	7	276.00	-46087.40	5350.46	5350.46	-273.62	921.75	-46087.40	7976.95	1369.88	19.69	3.32	1.491
24.50	1(e)	SLU	9	7	0.00	-23495.40	-1522.46	-1522.46	330.71	-469.91	-23495.40	-5905.19	-1835.23	202.50	5.62	3.881
24.50	1(e)	SLU	9	7	0.00	-23495.40	-1522.46	-1522.46	330.71	-469.91	-23495.40	-5905.19	-1835.23	202.50	5.62	3.881
27.26	1(e)	SLU	9	7	276.00	-22553.60	5544.45	5544.45	-314.84	451.07	-22553.60	6125.24	586.68	5.62	8.96	1.106

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	1	3.50	30.31	29.07	---	1	3.50	30.31	29.07	---	1	3.50	30.31	29.07	---	2	3.00	29.69	25.87
---	2	3.00	29.69	25.87	---	2	3.00	29.69	25.87	---	3	3.00	29.69	27.68	---	3	3.00	29.69	27.68
---	3	3.00	29.69	27.68	---	6	3.00	34.64	31.82	---	6	3.00	34.64	31.82	---	6	3.00	34.64	31.82

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-215358.00	-1433.60	-4307.15	-154.00	-4307.15	-347346.00	-10599.40	-11042.10	237.66	0.80	1.613
0.00	1(e)	SLU	1	1	0.00	-215358.00	-1433.60	-4307.15	-154.00	-4307.15	-347346.00	-10599.40	-11042.10	237.66	0.80	1.613
3.26	1(e)	SLU	1	1	326.00	-213239.00	4638.55	4638.55	268.31	4264.77	-347346.00	11679.80	10593.20	54.84	0.84	1.629
3.50	1(e)	SLU	2	10	0.00	-190049.00	-3019.47	-3800.98	-126.33	-3800.98	-260434.00	-5296.71	-5191.95	216.56	0.21	1.370
3.50	1(e)	SLU	2	10	0.00	-190049.00	-3019.47	-3800.98	-126.33	-3800.98	-260434.00	-5296.71	-5191.95	216.56	0.21	1.370
6.26	1(e)	SLU	2	10	276.00	-188793.00	3900.21	3900.21	64.85	3775.87	-260434.00	5390.26	5262.34	36.56	0.23	1.379
6.50	1(e)	SLU	3	10	0.00	-166032.00	-3550.45	-3550.45	24.06	3320.64	-260434.00	-6941.52	6215.53	144.84	0.60	1.569
6.50	1(e)	SLU	3	10	0.00	-166032.00	-3550.45	-3550.45	24.06	3320.64	-260434.00	-6941.52	6215.53	144.84	0.60	1.569
9.26	1(e)	SLU	3	10	276.00	-164776.00	3501.41	3501.41	-68.41	-3295.52	-260434.00	6851.26	-6554.70	323.44	0.63	1.581
15.50	1(e)	SLU	6	7	0.00	-94361.30	-3781.02	-3781.02	190.32	1887.23	-94361.30	-7277.52	3476.29	137.81	1.20	1.909
15.50	1(e)	SLU	6	7	0.00	-94361.30	-3781.02	-3781.02	190.32	1887.23	-94361.30	-6317.14	3063.34	140.62	1.05	1.661
18.26	1(e)	SLU	6	7	276.00	-93419.40	3941.60	3941.60	-187.65	1868.39	-93419.40	6514.49	2922.93	37.97	1.08	1.637

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.00	2	SLE R	1	1	0.00	-153937.00	-109.97	-1054.60	0.00	16.09	74.76	1103.78
0.00	4	SLE Q	1	1	0.00	-131824.00	-79.45	-893.74	0.00	16.09	63.88	943.55
0.00	2	SLE R	1	1	0.00	-153937.00	-109.97	-1054.60	0.00	16.09	74.76	1103.78
0.00	4	SLE Q	1	1	0.00	-131824.00	-79.45	-893.74	0.00	16.09	63.88	943.55
3.26	2	SLE R	1	1	326.00	-152307.00	196.29	3429.94	0.00	16.09	86.68	1246.52
3.26	4	SLE Q	1	1	326.00	-130194.00	139.14	2919.15	0.00	16.09	73.85	1062.62
3.50	2	SLE R	2	10	0.00	-135792.00	-94.10	-2218.08	0.00	16.09	106.05	1497.26
3.50	4	SLE Q	2	10	0.00	-116132.00	-41.99	-1871.80	0.00	16.09	90.11	1273.83
3.50	2	SLE R	2	10	0.00	-135792.00	-94.10	-2218.08	0.00	16.09	106.05	1497.26
3.50	4	SLE Q	2	10	0.00	-116132.00	-41.99	-1871.80	0.00	16.09	90.11	1273.83
6.26	2	SLE R	2	10	276.00	-134826.00	48.09	2877.90	0.00	16.09	111.75	1557.23
6.26	4	SLE Q	2	10	276.00	-115166.00	1.77	2447.96	0.00	16.09	95.01	1325.08
6.50	2	SLE R	3	10	0.00	-118632.00	19.33	-2609.55	0.00	16.09	98.91	1376.49
6.50	4	SLE Q	3	10	0.00	-101382.00	65.40	-2193.54	0.00	16.09	84.59	1177.17
6.50	2	SLE R	3	10	0.00	-118632.00	19.33	-2609.55	0.00	16.09	98.91	1376.49
6.50	4	SLE Q	3	10	0.00	-101382.00	65.40	-2193.54	0.00	16.09	84.59	1177.17
9.26	2	SLE R	3	10	276.00	-117666.00	-51.66	2581.45	0.00	16.09	98.32	1367.77
9.26	4	SLE Q	3	10	276.00	-100416.00	-92.98	2184.76	0.00	16.09	84.15	1170.13
9.50	2	SLE R	4	10	0.00	-101538.00	107.58	-2848.37	0.00	16.09	91.69	1255.68
9.50	4	SLE Q	4	10	0.00	-86662.80	149.08	-2406.65	0.00	16.09	78.51	1074.74
9.50	2	SLE R	4	10	0.00	-101538.00	107.58	-2848.37	0.00	12.06	94.11	1291.79
9.50	4	SLE Q	4	10	0.00	-86662.80	149.08	-2406.65	0.00	12.06	80.61	1105.94
12.26	2	SLE R	4	10	276.00	-100572.00	-123.03	2595.19	0.00	12.06	91.08	1256.11



Relazione di calcolo

12.264	SLE Q	4	10	276.00	-85696.80	-160.10	2197.56	0.00	12.06	77.98	1074.69
12.502	SLE R	5	10	0.00	-84518.50	230.01	-2822.64	0.00	12.06	84.23	1140.52
12.504	SLE Q	5	10	0.00	-71983.90	265.36	-2383.39	0.00	12.06	72.17	976.50
12.502	SLE R	5	10	0.00	-84518.50	230.01	-2822.64	0.00	12.06	84.23	1140.52
12.504	SLE Q	5	10	0.00	-71983.90	265.36	-2383.39	0.00	12.06	72.17	976.50
15.262	SLE R	5	10	276.00	-83552.50	-272.16	2694.38	0.00	12.06	82.71	1121.59
15.264	SLE Q	5	10	276.00	-71017.90	-304.56	2280.29	0.00	12.06	70.88	960.05
15.502	SLE R	6	7	0.00	-67407.90	143.29	-2783.16	0.00	12.06	92.70	1236.11
15.504	SLE Q	6	7	0.00	-57225.20	165.81	-2358.30	0.00	12.06	79.37	1056.22
15.502	SLE R	6	7	0.00	-67407.90	143.29	-2783.16	0.00	8.04	98.30	1308.84
15.504	SLE Q	6	7	0.00	-57225.20	165.81	-2358.30	0.00	8.04	84.11	1117.91
18.262	SLE R	6	7	276.00	-66683.40	-140.94	2904.90	0.00	8.04	99.32	1317.56
18.264	SLE Q	6	7	276.00	-56500.70	-165.88	2473.27	0.00	8.04	85.08	1126.02
18.502	SLE R	7	7	0.00	-50481.20	183.56	-2596.15	0.00	8.04	81.92	1070.46
18.504	SLE Q	7	7	0.00	-42667.70	210.51	-2190.31	0.00	8.04	70.09	913.51
18.502	SLE R	7	7	0.00	-50481.20	183.56	-2596.15	0.00	8.04	81.92	1070.46
18.504	SLE Q	7	7	0.00	-42667.70	210.51	-2190.31	0.00	8.04	70.09	913.51
21.262	SLE R	7	7	276.00	-49756.70	-181.53	3286.63	0.00	8.04	90.98	1167.06
21.264	SLE Q	7	7	276.00	-41943.20	-205.76	2796.60	0.00	8.04	78.00	997.42
21.502	SLE R	8	7	0.00	-33610.40	212.32	-2078.90	0.00	8.04	60.91	781.51
21.504	SLE Q	8	7	0.00	-28146.90	236.90	-1746.71	0.00	8.04	52.11	665.78
21.502	SLE R	8	7	0.00	-33610.40	212.32	-2078.90	0.00	6.16	62.78	807.72
21.504	SLE Q	8	7	0.00	-28146.90	236.90	-1746.71	0.00	6.16	53.72	688.28
24.262	SLE R	8	7	276.00	-32885.90	-205.30	3940.04	3.08	3.08	102.73	1201.92
24.264	SLE Q	8	7	276.00	-27422.40	-227.48	3316.14	3.08	3.08	88.00	1025.22
24.502	SLE R	9	7	0.00	-16805.20	246.93	-1122.95	1.54	4.62	35.35	445.53
24.504	SLE Q	9	7	0.00	-13674.50	267.83	-988.90	1.54	4.62	31.50	391.08
24.502	SLE R	9	7	0.00	-16805.20	246.93	-1122.95	1.54	4.62	35.35	445.53
24.504	SLE Q	9	7	0.00	-13674.50	267.83	-988.90	1.54	4.62	31.50	391.08
27.262	SLE R	9	7	276.00	-16080.70	-235.49	4082.24	3.08	3.08	118.94	2505.10
27.264	SLE Q	9	7	276.00	-12950.00	-258.04	3395.78	3.08	3.08	101.67	2170.34

Stato limite d'esercizio - Verifiche a fessurazione

Xg	CC	TCC	El	Sez.	X	N	My	Mz	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
<m>					<cm>	<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
24.264	SLE	Q	8	7	276.00	-27422.40	3316.14	-227.48	39.00	208.00	0.50	14.00	176.00	1.54	107.76	598.39	0.17	0.05
24.263	SLE	F	8	7	276.00	-28921.40	3494.38	-221.48	39.00	208.00	0.50	14.00	177.90	1.54	109.84	623.46	0.18	0.05
27.264	SLE	Q	9	7	276.00	-12950.00	3395.78	-258.04	39.00	208.00	0.50	14.00	169.45	3.08	201.10	2170.34	0.83	0.24
27.263	SLE	F	9	7	276.00	-13781.80	3591.85	-251.11	39.00	208.00	0.50	14.00	170.26	3.08	202.89	2274.07	0.76	0.22

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<mm>	<mm>						<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	129.54	1.00	4947.76	0.00	0.00	0.40	0.45	1862.63	1.00	6357.38	0.00	0.00	0.00	0.000
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	129.54	1.00	4947.76	0.00	0.00	0.40	0.45	1862.63	1.00	6357.38	0.00	0.00	0.00	0.000
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	129.54	1.00	4947.76	0.00	0.00	0.40	0.45	1862.62	1.00	6357.38	0.00	0.00	0.00	0.000
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	69.27	1.00	3710.82	0.00	0.00	0.40	0.30	2507.13	1.00	3182.21	0.00	0.00	0.00	0.000
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	69.27	1.00	3710.82	0.00	0.00	0.40	0.30	2507.13	1.00	3182.21	0.00	0.00	0.00	0.000
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	69.27	1.00	3710.82	0.00	0.00	0.40	0.30	2507.13	1.00	3182.21	0.00	0.00	0.00	0.000
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	33.50	1.00	3710.82	0.00	0.00	0.40	0.30	2555.02	1.00	3182.21	0.00	0.00	0.00	0.000
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	33.50	1.00	3710.82	0.00	0.00	0.40	0.30	2555.02	1.00	3182.21	0.00	0.00	0.00	0.000
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	33.50	1.00	3710.82	0.00	0.00	0.40	0.30	2555.02	1.00	3182.21	0.00	0.00	0.00	0.000
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	110.54	1.00	3710.82	0.00	0.00	0.40	0.30	2678.26	1.00	3182.21	0.00	0.00	0.00	0.000
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	110.54	1.00	3710.82	0.00	0.00	0.40	0.30	2678.26	1.00	3182.21	0.00	0.00	0.00	0.000
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	110.54	1.00	3710.82	0.00	0.00	0.40	0.30	2678.26	1.00	3182.21	0.00	0.00	0.00	0.000
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	245.71	1.87	6937.75	6937.75	6937.75	0.40	0.30	2714.34	2.03	6472.97	6472.97	6472.97	2.385	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	245.71	1.88	6992.79	6992.79	6992.79	0.40	0.30	2714.34	2.05	6522.56	6522.56	6522.56	2.403	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	245.71	1.94	7208.74	7208.74	7208.74	0.40	0.30	2714.34	2.11	6717.24	6717.24	6717.24	2.475	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	136.95	1.22	3245.58	3245.58	3245.58	0.30	0.30	2798.05	1.07	3396.74	3396.74	3396.74	1.214	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	136.95	1.25	3305.44	3305.44	3305.44	0.30	0.30	2798.05	1.09	3467.15	3467.15	3467.15	1.239	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	136.95	1.33	3534.71	3534.71	3534.71	0.30	0.30	2798.05	1.17	3735.54	3735.54	3735.54	1.335	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	176.57	2.50	6634.02	9978.12	6634.02	0.30	0.30	2893.98	2.50	7955.54	10256.40	7955.54	2.749	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	176.57	2.50	6634.02	10029.10	6634.02	0.30	0.30	2893.98	2.50	7955.54	10308.80	7955.54	2.749	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	176.57	2.50	6634.02	10232.90	6634.02	0.30	0.30	2893.98	2.50	7955.54	10518.20	7955.54	2.749	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	201.69	2.50	6634.02	16455.30	6634.02	0.30	0.30	2961.85	2.50	7955.54	16914.20	7955.54	2.686	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	201.69	2.50	6634.02	16455.30	6634.02	0.30	0.30	2961.85	2.50	7955.54	16914.20	7955.54	2.686	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	201.69	2.50	6634.02	16455.30	6634.02	0.30	0.30	2961.85	2.50	7955.54	16914.20	7955.54	2.686	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	233.89	2.50	6634.02	16214.60	6634.02	0.30	0.30	2560.48	2.50	7955.54	16666.80	7955.54	3.107	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	233.89	2.50	6634.02	16194.20	6634.02	0.30	0.30	2560.48	2.50	7955.54	16645.90	7955.54	3.107	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	233.89	2.50	6634.02	16112.70	6634.02	0.30	0.30	2560.47	2.50	7955.54	16562.10	7955.54	3.107	

Pilastrata n. 17

Nodi: 117 317 517 717 917 1117 1317 1517 1717 1917

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
1	R	40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	α	ε <sub>r</sub>	Sic.
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Relazione di calcolo

<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
12.50	1(e)	SLU	5	10	0.00	-121803.00	-5680.34	-5680.34	546.69	2436.06	-121803.00	-10896.10	4523.51	156.09	1.23	1.909
12.50	1(e)	SLU	5	10	0.00	-121803.00	-5680.34	-5680.34	546.69	2436.06	-121803.00	-10896.10	4523.51	156.09	1.23	1.909
15.00	1(e)	SLU	5	10	250.00	-120666.00	4443.19	4443.19	-413.39	-2413.31	-246024.00	10315.60	-5459.00	331.88	1.27	2.039
18.50	1(e)	SLU	7	7	0.00	-71310.30	-5250.99	-5250.99	310.50	-1426.21	-71310.30	-8548.52	-2480.93	208.12	1.76	1.636
18.50	1(e)	SLU	7	7	0.00	-71310.30	-5250.99	-5250.99	310.50	-1426.21	-71310.30	-8548.52	-2480.93	208.12	1.76	1.636
21.00	1(e)	SLU	7	7	250.00	-70457.20	5112.98	5112.98	-226.10	-1409.14	-70457.20	8547.47	-2475.97	331.88	1.80	1.678
21.50	1(e)	SLU	8	7	0.00	-46203.00	-4535.01	-4535.01	322.29	924.06	-46203.00	-8664.47	1652.61	157.50	3.11	1.906
21.50	1(e)	SLU	8	7	0.00	-46203.00	-4535.01	-4535.01	322.29	-924.06	-46203.00	-7876.22	-1581.63	202.50	3.18	1.736
24.00	1(e)	SLU	8	7	250.00	-45349.90	6198.44	6198.44	-234.29	-907.00	-45349.90	8031.01	-1152.77	343.12	3.54	1.295
24.50	1(e)	SLU	9	7	0.00	-21061.40	-2468.01	-2468.01	338.12	-421.23	-21061.40	-5883.94	-1087.00	191.25	7.87	2.390
24.50	1(e)	SLU	9	7	0.00	-21061.40	-2468.01	-2468.01	338.12	-421.23	-21061.40	-5883.94	-1087.00	191.25	7.87	2.390
27.00	1(e)	SLU	9	7	250.00	-20208.30	5052.49	5052.49	-187.87	-404.17	-20208.30	5854.31	-473.71	355.78	10.15	1.159

Dati per verifiche di stabilità

Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*
<m>		<m>			<m>		<m>			<m>		<m>			<m>		<m>		
---	1	3.50	30.31	28.45	---	1	3.50	30.31	28.45	---	1	3.50	30.31	28.45	---	2	3.00	29.69	25.32
---	2	3.00	29.69	25.32	---	2	3.00	29.69	25.32	---	3	3.00	29.69	27.14	---	3	3.00	29.69	27.14
---	3	3.00	29.69	27.14	---	4	3.00	29.69	29.40	---	4	3.00	29.69	29.40	---	4	3.00	29.69	29.40
---	6	3.00	34.64	31.47	---	6	3.00	34.64	31.47	---	6	3.00	34.64	31.47	---	6	3.00	34.64	31.47

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy,s	MRdz,s	α	ε <sub>r</sub>	Sic.
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
0.00	1(e)	SLU	1	1	0.00	-224658.00	-3659.08	-4493.17	323.99	4493.17	-347346.00	-10108.90	10442.90	122.34	0.68	1.546
0.00	1(e)	SLU	1	1	0.00	-224658.00	-3659.08	-4493.17	323.99	4493.17	-347346.00	-10108.90	10442.90	122.34	0.68	1.546
3.00	1(e)	SLU	1	1	300.00	-222708.00	6026.45	6026.45	-294.38	-4454.17	-347346.00	12477.40	-9238.51	309.38	0.72	1.560
3.50	1(e)	SLU	2	10	0.00	-198202.00	-4335.35	-4335.35	496.24	-3964.04	-198202.00	-4849.02	-4389.88	213.75	0.06	1.113
3.50	1(e)	SLU	2	10	0.00	-198202.00	-4335.35	-4335.35	496.24	-3964.04	-198202.00	-4849.02	-4389.88	213.75	0.06	1.113
6.00	1(e)	SLU	2	10	250.00	-197065.00	4718.06	4718.06	-379.51	3941.29	-197065.00	5024.70	4278.68	32.34	0.08	1.074
6.50	1(e)	SLU	3	10	0.00	-172680.00	-5393.39	-5393.39	508.46	-3453.59	-172680.00	-7226.54	-4501.61	206.72	0.46	1.329
6.50	1(e)	SLU	3	10	0.00	-172680.00	-5393.39	-5393.39	508.46	-3453.59	-172680.00	-7226.54	-4501.61	206.72	0.46	1.329
9.00	1(e)	SLU	3	10	250.00	-171542.00	4255.85	4255.85	-391.84	-3430.84	-260434.00	6863.11	-5501.33	327.66	0.50	1.518
9.50	1(e)	SLU	4	10	0.00	-147221.00	-5721.38	-5721.38	513.02	-2944.43	-147221.00	-9187.71	-4652.37	203.91	0.87	1.600
9.50	1(e)	SLU	4	10	0.00	-147221.00	-5721.38	-5721.38	513.02	2944.43	-147221.00	-8431.22	4261.96	153.28	0.74	1.468
12.00	1(e)	SLU	4	10	250.00	-146084.00	4260.77	4260.77	-394.03	-2921.68	-246024.00	8020.48	-5286.80	327.66	0.80	1.684
15.50	1(e)	SLU	6	7	0.00	-96400.80	-5463.90	-5463.90	225.41	1928.02	-96400.80	-8258.03	2550.03	146.25	1.13	1.492
15.50	1(e)	SLU	6	7	0.00	-96400.80	-5463.90	-5463.90	225.41	1928.02	-96400.80	-6926.05	2267.19	149.06	0.98	1.258
18.00	1(e)	SLU	6	7	250.00	-95547.60	4602.76	4602.76	-199.54	1910.95	-95547.60	6726.12	2618.59	35.16	1.01	1.448

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ <sub>c</sub>	σ <sub>f</sub>
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	1	0.00	-161072.00	245.91	-2694.47	0.00	16.09	87.17	1263.28
0.00	4	SLE Q	1	1	0.00	-140488.00	223.43	-2416.32	0.00	16.09	76.43	1106.61
0.00	2	SLE R	1	1	0.00	-161072.00	245.91	-2694.47	0.00	16.09	87.17	1263.28
0.00	4	SLE Q	1	1	0.00	-140488.00	223.43	-2416.32	0.00	16.09	76.43	1106.61
3.00	2	SLE R	1	1	300.00	-159572.00	-231.73	4459.30	0.00	16.09	95.39	1361.58
3.00	4	SLE Q	1	1	300.00	-138988.00	-219.77	4008.58	0.00	16.09	83.84	1194.99
3.50	2	SLE R	2	10	0.00	-142048.00	386.60	-3197.50	0.00	16.09	122.35	1692.71
3.50	4	SLE Q	2	10	0.00	-123641.00	365.64	-2885.67	0.00	16.09	107.79	1487.69
3.50	2	SLE R	2	10	0.00	-142048.00	386.60	-3197.50	0.00	16.09	122.35	1692.71
3.50	4	SLE Q	2	10	0.00	-123641.00	365.64	-2885.67	0.00	16.09	107.79	1487.69
6.00	2	SLE R	2	10	250.00	-141173.00	-295.66	3491.17	0.00	16.09	124.00	1708.28
6.00	4	SLE Q	2	10	250.00	-122766.00	-284.83	3136.76	0.00	16.09	109.10	1499.54
6.50	2	SLE R	3	10	0.00	-123743.00	398.12	-3980.57	0.00	16.09	119.24	1613.70
6.50	4	SLE Q	3	10	0.00	-107534.00	391.51	-3580.88	0.00	16.09	105.25	1420.43
6.50	2	SLE R	3	10	0.00	-123743.00	398.12	-3980.57	0.00	16.09	119.24	1613.70
6.50	4	SLE Q	3	10	0.00	-107534.00	391.51	-3580.88	0.00	16.09	105.25	1420.43
9.00	2	SLE R	3	10	250.00	-122868.00	-307.00	3147.22	0.00	16.09	109.46	1503.85
9.00	4	SLE Q	3	10	250.00	-106659.00	-304.86	2833.76	0.00	16.09	96.39	1320.63
9.50	2	SLE R	4	10	0.00	-105489.00	403.65	-4224.77	0.00	16.09	110.64	1474.60
9.50	4	SLE Q	4	10	0.00	-91491.40	406.90	-3794.52	0.00	16.09	97.78	1299.12
9.50	2	SLE R	4	10	0.00	-105489.00	403.65	-4224.77	0.00	12.06	113.33	1514.04
9.50	4	SLE Q	4	10	0.00	-91491.40	406.90	-3794.52	0.00	12.06	100.14	1333.71
12.00	2	SLE R	4	10	250.00	-104614.00	-309.68	3150.16	0.00	12.06	101.00	1376.14
12.00	4	SLE Q	4	10	250.00	-90616.40	-314.15	2835.20	0.00	12.06	88.99	1208.76
12.50	2	SLE R	5	10	0.00	-87266.20	432.43	-4194.83	0.00	12.06	101.76	1340.88
12.50	4	SLE Q	5	10	0.00	-75494.10	445.45	-3768.78	0.00	12.06	90.12	1183.18
12.50	2	SLE R	5	10	0.00	-87266.20	432.43	-4194.83	0.00	12.06	101.76	1340.88
12.50	4	SLE Q	5	10	0.00	-75494.10	445.45	-3768.78	0.00	12.06	90.12	1183.18
15.00	2	SLE R	5	10	250.00	-86391.20	-330.40	3284.82	0.00	12.06	91.03	1220.44
15.00	4	SLE Q	5	10	250.00	-74619.10	-347.43	2958.04	0.00	12.06	80.43	1074.20
15.50	2	SLE R	6	7	0.00	-69055.30	188.00	-4034.71	0.00	12.06	110.78	1439.34
15.50	4	SLE Q	6	7	0.00	-59509.80	207.84	-3614.40	0.00	12.06	97.98	1267.41
15.50	2	SLE R	6	7	0.00	-69055.30	188.00	-4034.71	0.00	8.04	117.69	1526.77
15.50	4	SLE Q	6	7	0.00	-59509.80	207.84	-3614.40	0.00	8.04	104.08	1344.36
18.00	2	SLE R	6	7	250.00	-68399.10	-165.26	3401.13	0.00	8.04	108.02	1418.70
18.00	4	SLE Q	6	7	250.00	-58853.50	-181.92	3049.43	0.00	8.04	95.29	1246.01
18.50	2	SLE R	7	7	0.00	-51084.30	254.38	-3879.03	2.01	6.03	102.70	1297.02
18.50	4	SLE Q	7	7	0.00	-43763.40	276.09	-3482.12	2.01	6.03	91.87	1151.57
18.50	2	SLE R	7	7	0.00	-51084.30	254.38	-3879.03	2.01	6.03	102.70	1297.02



Relazione di calcolo

18.50	4	SLE Q	7	7	0.00	-43763.40	276.09	-3482.12	2.01	6.03	91.87	1151.57
21.00	2	SLE R	7	7	250.00	-50428.00	-186.16	3776.51	0.00	8.04	99.30	1258.71
21.00	4	SLE Q	7	7	250.00	-43107.10	-204.47	3368.41	2.01	6.03	88.12	1109.81
21.50	2	SLE R	8	7	0.00	-33102.50	263.79	-3350.92	4.02	4.02	85.13	1028.52
21.50	4	SLE Q	8	7	0.00	-28016.60	287.43	-3029.92	4.02	4.02	77.96	928.20
21.50	2	SLE R	8	7	0.00	-33102.50	263.79	-3350.92	3.08	3.08	88.76	1073.60
21.50	4	SLE Q	8	7	0.00	-28016.60	287.43	-3029.92	3.08	3.08	81.59	971.81
24.00	2	SLE R	8	7	250.00	-32446.20	-192.81	4574.64	3.08	3.08	120.72	1354.69
24.00	4	SLE Q	8	7	250.00	-27360.30	-212.56	4026.82	3.08	3.08	108.30	1199.57
24.50	2	SLE R	9	7	0.00	-15096.90	276.46	-1830.87	3.08	3.08	52.70	607.44
24.50	4	SLE Q	9	7	0.00	-12254.90	299.32	-1746.46	3.08	3.08	52.97	585.44
24.50	2	SLE R	9	7	0.00	-15096.90	276.46	-1830.87	3.08	3.08	52.70	607.44
24.50	4	SLE Q	9	7	0.00	-12254.90	299.32	-1746.46	3.08	3.08	52.97	585.44
27.00	2	SLE R	9	7	250.00	-14440.60	-161.08	3726.52	3.08	3.08	106.58	2295.35
27.00	4	SLE Q	9	7	250.00	-11598.60	-190.51	3129.55	3.08	3.08	92.02	2024.88

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.00	4	SLE Q	8	7	250.00	-27360.30	4026.82	-212.56	39.00	208.00	0.50	14.00	214.40	1.54	149.98	1151.92	0.34	0.12
24.00	3	SLE F	8	7	250.00	-28759.70	4183.27	-206.98	39.00	208.00	0.50	14.00	213.94	1.54	149.47	1162.41	0.34	0.12
24.50	4	SLE Q	9	7	0.00	-12254.90	-1746.46	299.32	39.00	208.00	0.50	14.00	166.12	1.54	96.89	542.87	0.16	0.04
24.50	3	SLE F	9	7	0.00	-13013.70	-1770.63	293.70	39.00	208.00	0.50	14.00	160.66	1.54	90.89	496.24	0.14	0.04
24.50	4	SLE Q	9	7	0.00	-12254.90	-1746.46	299.32	39.00	208.00	0.50	14.00	166.12	1.54	96.89	542.87	0.16	0.04
24.50	3	SLE F	9	7	0.00	-13013.70	-1770.63	293.70	39.00	208.00	0.50	14.00	160.66	1.54	90.89	496.24	0.14	0.04
27.00	4	SLE Q	9	7	250.00	-11598.60	3129.55	-190.51	39.00	208.00	0.50	14.00	172.69	3.08	208.23	2024.88	0.75	0.22
27.00	3	SLE F	9	7	250.00	-12357.40	3300.06	-183.67	39.00	208.00	0.50	14.00	173.26	3.08	209.48	2109.87	0.67	0.20

Stato limite ultimo - Verifiche a taglio

X0 <mm>	X1 <mm>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <mm>	d <sub>y</sub> <mm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <mm>	d <sub>z</sub> <mm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.50	ø8/20	2	21	SLU	0.50	0.35	206.12	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	3228.51	1.00	6357.38	0.00	0.00	0.000
0.50	2.50	ø8/20	2	21	SLU	0.50	0.35	206.12	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	3228.51	1.00	6357.38	0.00	0.00	0.000
2.50	3.00	ø8/20	2	21	SLU	0.50	0.35	206.12	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	3228.51	1.00	6357.38	0.00	0.00	0.000
3.50	3.95	ø6/15	2	21	SLU	0.35	0.35	350.30	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3621.36	1.00	3182.21	0.00	0.00	0.000
3.95	5.55	ø6/15	2	21	SLU	0.35	0.35	350.30	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3621.36	1.00	3182.21	0.00	0.00	0.000
5.55	6.00	ø6/15	2	21	SLU	0.35	0.35	350.30	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3621.36	1.00	3182.21	0.00	0.00	0.000
6.50	6.95	ø6/15	2	21	SLU	0.35	0.35	360.12	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3859.70	1.00	3182.21	0.00	0.00	0.000
6.95	8.55	ø6/15	2	21	SLU	0.35	0.35	360.12	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3859.70	1.00	3182.21	0.00	0.00	0.000
8.55	9.00	ø6/15	2	21	SLU	0.35	0.35	360.12	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3859.70	1.00	3182.21	0.00	0.00	0.000
9.50	9.95	ø6/15	2	21	SLU	0.35	0.35	362.82	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3992.86	1.00	3182.21	0.00	0.00	0.000
9.95	11.55	ø6/15	2	21	SLU	0.35	0.35	362.82	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3992.86	1.00	3182.21	0.00	0.00	0.000
11.55	12.00	ø6/15	2	21	SLU	0.35	0.35	362.82	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3992.86	1.00	3182.21	0.00	0.00	0.000
12.50	12.95	ø6/15	2	21	SLU	0.35	0.35	384.03	1.60	5941.01	5941.01	5941.01	5941.01	0.40	0.30	4049.41	1.75	5577.70	5577.70	5577.70	1.377
12.95	14.55	ø6/15	2	21	SLU	0.35	0.35	384.03	1.62	6003.81	6003.81	6003.81	6003.81	0.40	0.30	4049.41	1.77	5633.93	5633.93	5633.93	1.391
14.55	15.00	ø6/15	2	21	SLU	0.35	0.35	384.03	1.68	6221.94	6221.94	6221.94	6221.94	0.40	0.30	4049.41	1.83	5829.45	5829.45	5829.45	1.440
15.50	15.95	ø6/15	2	21	SLU	0.35	0.25	169.98	1.00	2653.61	2351.79	2351.79	2351.79	0.30	0.30	4026.66	1.00	3182.21	2417.38	2417.38	0.600
15.95	17.55	ø6/15	2	21	SLU	0.35	0.25	169.98	1.00	2653.61	2424.06	2424.06	2424.06	0.30	0.30	4026.66	1.00	3182.21	2491.66	2491.66	0.619
17.55	18.00	ø6/15	2	21	SLU	0.35	0.25	169.98	1.01	2680.88	2680.88	2680.88	2680.88	0.30	0.30	4026.66	1.00	3182.21	2755.79	2755.79	0.684
18.50	18.95	ø6/15	2	21	SLU	0.35	0.25	214.64	2.50	6634.02	9765.50	6634.02	6634.02	0.30	0.30	4145.59	2.50	7955.54	10037.80	7955.54	1.919
18.95	20.55	ø6/15	2	21	SLU	0.35	0.25	214.64	2.50	6634.02	9815.34	6634.02	6634.02	0.30	0.30	4145.59	2.50	7955.54	10089.10	7955.54	1.919
20.55	21.00	ø6/15	2	21	SLU	0.35	0.25	214.64	2.50	6634.02	9992.55	6634.02	6634.02	0.30	0.30	4145.59	2.50	7955.54	10271.20	7955.54	1.919
21.50	21.95	ø6/15	2	21	SLU	0.35	0.25	222.63	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	4293.38	2.50	7955.54	16914.20	7955.54	1.853
21.95	23.55	ø6/15	2	21	SLU	0.35	0.25	222.63	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	4293.38	2.50	7955.54	16914.20	7955.54	1.853
23.55	24.00	ø6/15	2	21	SLU	0.35	0.25	222.63	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	4293.38	2.50	7955.54	16914.20	7955.54	1.853
24.50	24.95	ø6/15	2	21	SLU	0.35	0.25	210.40	2.50	6634.02	15898.60	6634.02	6634.02	0.30	0.30	3008.20	2.50	7955.54	16342.00	7955.54	2.645
24.95	26.55	ø6/15	2	21	SLU	0.35	0.25	210.40	2.50	6634.02	15878.70	6634.02	6634.02	0.30	0.30	3008.20	2.50	7955.54	16321.50	7955.54	2.645
26.55	27.00	ø6/15	2	21	SLU	0.35	0.25	210.40	2.50	6634.02	15807.80	6634.02	6634.02	0.30	0.30	3008.20	2.50	7955.54	16248.60	7955.54	2.645

Pilastrata n. 18

Nodi: 118 318 518 718 918 1118 1318 1518 1718 1918

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1R		40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
12.50	1(e)	SLU	5	10	0.00	-121274.00	-5627.10	-5627.10	-386.85	2425.48	-121274.00	-10722.50	4829.30	154.69	1.25	1.919
12.50	1(e)	SLU	5	10	0.00	-121274.00	-5627.10	-5627.10	-386.85	2425.48	-121274.00	-10722.50	4829.30	154.69	1.25	1.919
15.00	1(e)	SLU	5	10	250.00	-120137.00	4424.74	4424.74	285.54	2402.73	-246024.00	10334.60	5464.68	28.12	1.28	2.048
18.50	1(e)	SLU	7	7	0.00	-71126.60	-5191.14	-5191.14	-245.69	1422.53	-71126.60	-8548.31	2479.86	151.88	1.77	1.654
18.50	1(e)	SLU	7	7	0.00	-71126.60	-5191.14	-5191.14	-245.69	1422.53	-71126.60	-8548.31	2479.86	151.88	1.77	1.654
21.00	1(e)	SLU	7	7	250.00	-70273.50	5028.76	5028.76	186.66	1405.47	-70273.50	8547.21	2474.91	28.12	1.80	1.704
21.50	1(e)	SLU	8	7	0.00	-46121.20	-4593.97	-4593.97	-187.10	922.42	-46121.20	-8662.29	-1651.66	202.50	3.11	1.882
21.50	1(e)	SLU	8	7	0.00	-46121.20	-4593.97	-4593.97	-187.10	922.42	-46121.20	-7870.90	1582.39	157.50	3.19	1.713
24.00	1(e)	SLU	8	7	250.00	-45268.00	5990.56	5990.56	161.63	905.36	-45268.00	8025.37	1153.59	16.88	3.54	1.338
24.50	1(e)	SLU	9	7	0.00	-20985.70	-2910.76	-2910.76	50.27	419.71	-20985.70	-5911.83	845.20	171.56	8.61	2.031
24.50	1(e)	SLU	9	7	0.00	-20985.70	-2910.76	-2910.76	50.27	419.71	-20985.70	-5911.83	845.20	171.56	8.61	2.031
27.00	1(e)	SLU	9	7	250.00	-20132.60	5242.90	5242.90	-96.91	-402.65	-20132.60	5845.07	-474.07	355.78	10.17	1.115



# Relazione di calcolo

$\langle m \rangle$	$\langle m \rangle$			$\langle m \rangle$	$\langle m \rangle$			$\langle m \rangle$	$\langle m \rangle$			$\langle m \rangle$	$\langle m \rangle$						
---	1	3.50	30.31	28.57	---	1	3.50	30.31	28.57	---	1	3.50	30.31	28.57	---	2	3.00	29.69	25.42
---	2	3.00	29.69	25.42	---	2	3.00	29.69	25.42	---	3	3.00	29.69	27.23	---	3	3.00	29.69	27.23
---	3	3.00	29.69	27.23	---	4	3.00	29.69	29.48	---	4	3.00	29.69	29.48	---	4	3.00	29.69	29.48
---	6	3.00	34.64	31.53	---	6	3.00	34.64	31.53	---	6	3.00	34.64	31.53					

## Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <m>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy, s <daNm>	MRdz, s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-222741.00	-5699.69	-5699.69	-323.42	-4454.82	-347346.00	-12037.80	-9522.97	232.03	0.71	1.559
0.00	1(e)	SLU	1	1	0.00	-222741.00	-5699.69	-5699.69	-323.42	-4454.82	-347346.00	-12037.80	-9522.97	232.03	0.71	1.559
3.00	1(e)	SLU	1	1	300.00	-220791.00	6253.99	6253.99	372.93	4415.82	-347346.00	13045.70	9054.84	49.22	0.74	1.573
3.50	1(e)	SLU	2	10	0.00	-196662.00	-3989.56	-3989.56	-338.18	-3933.24	-196662.00	-4840.20	-4789.84	216.56	0.10	1.216
3.50	1(e)	SLU	2	10	0.00	-196662.00	-3989.56	-3989.56	-338.18	-3933.24	-196662.00	-4840.20	-4789.84	216.56	0.10	1.216
6.00	1(e)	SLU	2	10	250.00	-195524.00	4685.59	4685.59	282.53	3910.49	-195524.00	5123.18	4393.33	32.34	0.11	1.106
6.50	1(e)	SLU	3	10	0.00	-171567.00	-5372.89	-5372.89	-379.80	-3431.33	-171567.00	-7302.43	-4541.84	206.72	0.47	1.349
6.50	1(e)	SLU	3	10	0.00	-171567.00	-5372.89	-5372.89	-379.80	-3431.33	-171567.00	-7302.43	-4541.84	206.72	0.47	1.349
9.00	1(e)	SLU	3	10	250.00	-170429.00	4223.05	4223.05	294.56	3408.58	-260434.00	6951.66	5527.84	32.34	0.52	1.528
9.50	1(e)	SLU	4	10	0.00	-146432.00	-5675.82	-5675.82	-421.06	-2928.64	-146432.00	-9237.66	-4676.56	203.91	0.89	1.621
9.50	1(e)	SLU	4	10	0.00	-146432.00	-5675.82	-5675.82	-421.06	-2928.64	-146432.00	-9237.66	-4676.56	203.91	0.89	1.621
12.00	1(e)	SLU	4	10	250.00	-145295.00	4239.39	4239.39	329.05	2905.89	-246024.00	8076.64	5303.28	32.34	0.81	1.693
15.50	1(e)	SLU	6	7	0.00	-96064.40	-5388.67	-5388.67	-249.58	1921.29	-96064.40	-8156.00	2657.63	144.84	1.14	1.499
15.50	1(e)	SLU	6	7	0.00	-96064.40	-5388.67	-5388.67	-249.58	1921.29	-96064.40	-8156.00	2657.63	144.84	1.14	1.499
18.00	1(e)	SLU	6	7	250.00	-95211.30	4557.26	4557.26	211.10	-1904.23	-95211.30	6746.34	-2621.30	324.84	1.02	1.465

## Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <m>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.00	2	SLE R	1	1	0.00	-159689.00	-241.29	-4194.68	0.00	16.09	94.16	1346.67
0.00	4	SLE Q	1	1	0.00	-139314.00	-220.23	-3750.61	0.00	16.09	82.67	1181.22
0.00	2	SLE R	1	1	0.00	-159689.00	-241.29	-4194.68	0.00	16.09	94.16	1346.67
0.00	4	SLE Q	1	1	0.00	-139314.00	-220.23	-3750.61	0.00	16.09	82.67	1181.22
3.00	2	SLE R	1	1	300.00	-158189.00	285.90	4622.29	0.00	16.09	95.95	1366.45
3.00	4	SLE Q	1	1	300.00	-137814.00	265.67	4144.50	0.00	16.09	84.30	1198.97
3.50	2	SLE R	2	10	0.00	-140929.00	-268.23	-2941.61	0.00	16.09	118.04	1642.16
3.50	4	SLE Q	2	10	0.00	-122686.00	-266.30	-2648.97	0.00	16.09	103.94	1442.67
3.50	2	SLE R	2	10	0.00	-140929.00	-268.23	-2941.61	0.00	16.09	118.04	1642.16
3.50	4	SLE Q	2	10	0.00	-122686.00	-266.30	-2648.97	0.00	16.09	103.94	1442.67
6.00	2	SLE R	2	10	250.00	-140054.00	223.06	3468.69	0.00	16.09	122.46	1688.28
6.00	4	SLE Q	2	10	250.00	-121811.00	223.80	3116.93	0.00	16.09	107.78	1482.49
6.50	2	SLE R	3	10	0.00	-122934.00	-299.00	-3966.74	0.00	16.09	117.74	1594.84
6.50	4	SLE Q	3	10	0.00	-106848.00	-306.78	-3566.56	0.00	16.09	103.95	1404.08
6.50	2	SLE R	3	10	0.00	-122934.00	-299.00	-3966.74	0.00	16.09	117.74	1594.84
6.50	4	SLE Q	3	10	0.00	-106848.00	-306.78	-3566.56	0.00	16.09	103.95	1404.08
9.00	2	SLE R	3	10	250.00	-122059.00	232.55	3123.29	0.00	16.09	108.07	1486.34
9.00	4	SLE Q	3	10	250.00	-105973.00	240.81	2809.89	0.00	16.09	95.17	1305.28
9.50	2	SLE R	4	10	0.00	-104914.00	-330.20	-4192.62	0.00	16.09	109.32	1458.40
9.50	4	SLE Q	4	10	0.00	-91006.10	-342.97	-3765.29	0.00	16.09	96.63	1285.03
9.50	2	SLE R	4	10	0.00	-104914.00	-330.20	-4192.62	0.00	12.06	111.95	1497.16
9.50	4	SLE Q	4	10	0.00	-91006.10	-342.97	-3765.29	0.00	12.06	98.94	1319.02
12.00	2	SLE R	4	10	250.00	-104039.00	257.74	3135.17	0.00	12.06	100.00	1363.46
12.00	4	SLE Q	4	10	250.00	-90131.10	268.52	2820.60	0.00	12.06	88.11	1197.66
12.50	2	SLE R	5	10	0.00	-86880.00	-309.85	-4156.79	0.00	12.06	99.99	1319.89
12.50	4	SLE Q	5	10	0.00	-75168.50	-338.59	-3734.00	0.00	12.06	88.56	1164.81
12.50	2	SLE R	5	10	0.00	-86880.00	-309.85	-4156.79	0.00	12.06	99.99	1319.89
12.50	4	SLE Q	5	10	0.00	-75168.50	-338.59	-3734.00	0.00	12.06	88.56	1164.81
15.00	2	SLE R	5	10	250.00	-86005.00	233.09	3272.00	0.00	12.06	89.75	1204.95
15.00	4	SLE Q	5	10	250.00	-74293.50	262.53	2944.98	0.00	12.06	79.30	1060.59
15.50	2	SLE R	6	7	0.00	-68808.70	-196.49	-3980.62	0.00	12.06	110.03	1430.17
15.50	4	SLE Q	6	7	0.00	-59301.50	-211.90	-3565.90	0.00	12.06	97.25	1258.74
15.50	2	SLE R	6	7	0.00	-68808.70	-196.49	-3980.62	0.00	8.04	116.87	1516.86
15.50	4	SLE Q	6	7	0.00	-59301.50	-211.90	-3565.90	0.00	8.04	103.29	1334.99
18.00	2	SLE R	6	7	250.00	-68152.50	166.98	3368.42	0.00	8.04	107.39	1410.89
18.00	4	SLE Q	6	7	250.00	-58645.30	181.19	3018.79	0.00	8.04	94.68	1238.59
18.50	2	SLE R	7	7	0.00	-50948.20	-198.04	-3837.00	0.00	8.04	100.87	1277.37
18.50	4	SLE Q	7	7	0.00	-43651.80	-224.91	-3444.20	2.01	6.03	90.16	1133.40
18.50	2	SLE R	7	7	0.00	-50948.20	-198.04	-3837.00	0.00	8.04	100.87	1277.37
18.50	4	SLE Q	7	7	0.00	-43651.80	-224.91	-3444.20	2.01	6.03	90.16	1133.40
21.00	2	SLE R	7	7	250.00	-50292.00	150.70	3715.35	0.00	8.04	97.55	1239.85
21.00	4	SLE Q	7	7	250.00	-42995.50	171.86	3314.20	2.01	6.03	86.51	1092.52
21.50	2	SLE R	8	7	0.00	-33041.20	-155.16	-3395.88	4.02	4.02	83.72	1013.25
21.50	4	SLE Q	8	7	0.00	-27969.50	-188.59	-3066.14	4.02	4.02	76.52	912.66
21.50	2	SLE R	8	7	0.00	-33041.20	-155.16	-3395.88	3.08	3.08	87.31	1057.59
21.50	4	SLE Q	8	7	0.00	-27969.50	-188.59	-3066.14	3.08	3.08	80.10	955.39
24.00	2	SLE R	8	7	250.00	-32385.00	132.38	4423.44	3.08	3.08	114.60	1298.98
24.00	4	SLE Q	8	7	250.00	-27313.20	155.96	3897.40	3.08	3.08	102.80	1149.94
24.50	2	SLE R	9	7	0.00	-15042.10	15.80	-2158.66	3.08	3.08	54.90	614.88
24.50	4	SLE Q	9	7	0.00	-12218.70	-55.82	-2018.56	3.08	3.08	53.71	702.57
24.50	2	SLE R	9	7	0.00	-15042.10	15.80	-2158.66	3.08	3.08	54.90	614.88
24.50	4	SLE Q	9	7	0.00	-12218.70	-55.82	-2018.56	3.08	3.08	53.71	702.57



Relazione di calcolo

27.00	2	SLE R	9	7	250.00	-14385.80	-53.94	3865.88	3.08	3.08	106.34	2413.04
27.00	4	SLE Q	9	7	250.00	-11562.40	9.79	3247.26	3.08	3.08	88.09	2083.19

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.00	4	SLE Q	8	7	250.00	-27313.20	3897.40	155.96	39.00	208.00	0.50	14.00	214.69	1.54	150.30	1026.27	0.30	0.11
24.00	3	SLE F	8	7	250.00	-28708.80	4047.61	149.29	39.00	208.00	0.50	14.00	214.08	1.54	149.63	1033.12	0.30	0.11
24.50	4	SLE Q	9	7	0.00	-12218.70	-2018.56	-55.82	39.00	208.00	0.50	14.00	158.44	3.08	176.89	702.57	0.20	0.06
24.50	3	SLE F	9	7	0.00	-12973.10	-2058.66	-36.65	39.00	208.00	0.50	14.00	157.81	3.08	175.52	658.63	0.19	0.05
24.50	4	SLE Q	9	7	0.00	-12218.70	-2018.56	-55.82	39.00	208.00	0.50	14.00	158.44	3.08	176.89	702.57	0.20	0.06
24.50	3	SLE F	9	7	0.00	-12973.10	-2058.66	-36.65	39.00	208.00	0.50	14.00	157.81	3.08	175.52	658.63	0.19	0.05
27.00	4	SLE Q	9	7	250.00	-11562.40	3247.26	9.79	39.00	208.00	0.50	14.00	183.10	3.08	231.12	2083.19	0.75	0.23
27.00	3	SLE F	9	7	250.00	-12316.80	3423.98	-6.66	39.00	208.00	0.50	14.00	183.03	3.08	230.96	2177.77	0.67	0.21

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <cm>	d <sub>y</sub> <cm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <cm>	d <sub>z</sub> <cm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.50	ø8/20	2	21	SLU	0.50	0.35	232.12	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	3984.56	1.00	6357.38	0.00	0.00	0.000
0.50	2.50	ø8/20	2	21	SLU	0.50	0.35	232.12	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	3984.56	1.00	6357.38	0.00	0.00	0.000
2.50	3.00	ø8/20	2	21	SLU	0.50	0.35	232.12	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	3984.56	1.00	6357.38	0.00	0.00	0.000
3.50	3.95	ø6/15	2	21	SLU	0.35	0.35	248.28	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3470.06	1.00	3182.21	0.00	0.00	0.000
3.95	5.55	ø6/15	2	21	SLU	0.35	0.35	248.28	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3470.06	1.00	3182.21	0.00	0.00	0.000
5.55	6.00	ø6/15	2	21	SLU	0.35	0.35	248.28	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3470.06	1.00	3182.21	0.00	0.00	0.000
6.50	6.95	ø6/15	2	21	SLU	0.35	0.35	269.75	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3838.38	1.00	3182.21	0.00	0.00	0.000
6.95	8.55	ø6/15	2	21	SLU	0.35	0.35	269.75	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3838.38	1.00	3182.21	0.00	0.00	0.000
8.55	9.00	ø6/15	2	21	SLU	0.35	0.35	269.75	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3838.38	1.00	3182.21	0.00	0.00	0.000
9.50	9.95	ø6/15	2	21	SLU	0.35	0.35	300.04	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3966.08	1.00	3182.21	0.00	0.00	0.000
9.95	11.55	ø6/15	2	21	SLU	0.35	0.35	300.04	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3966.08	1.00	3182.21	0.00	0.00	0.000
11.55	12.00	ø6/15	2	21	SLU	0.35	0.35	300.04	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3966.08	1.00	3182.21	0.00	0.00	0.000
12.50	12.95	ø6/15	2	21	SLU	0.35	0.35	268.96	1.64	6101.94	6101.94	6101.94	6101.94	0.40	0.30	4020.74	1.80	5721.85	5721.85	5721.85	1.423
12.95	14.55	ø6/15	2	21	SLU	0.35	0.35	268.96	1.66	6163.10	6163.10	6163.10	6163.10	0.40	0.30	4020.74	1.82	5776.68	5776.68	5776.68	1.437
14.55	15.00	ø6/15	2	21	SLU	0.35	0.35	268.96	1.72	6375.78	6375.78	6375.78	6375.78	0.40	0.30	4020.74	1.88	5967.52	5967.52	5967.52	1.484
15.50	15.95	ø6/15	2	21	SLU	0.35	0.25	184.27	1.00	2653.61	2510.09	2510.09	2510.09	0.30	0.30	3978.37	1.00	3182.21	2580.09	2580.09	0.649
15.95	17.55	ø6/15	2	21	SLU	0.35	0.25	184.27	1.00	2653.61	2582.36	2582.36	2582.36	0.30	0.30	3978.37	1.00	3182.21	2654.38	2654.38	0.667
17.55	18.00	ø6/15	2	21	SLU	0.35	0.25	184.27	1.07	2833.24	2833.24	2833.24	2833.24	0.30	0.30	3978.37	1.00	3182.21	2918.51	2918.51	0.734
18.50	18.95	ø6/15	2	21	SLU	0.35	0.25	172.94	2.50	6634.02	9825.13	6634.02	6634.02	0.30	0.30	4087.96	2.50	7955.54	10099.10	7955.54	1.946
18.95	20.55	ø6/15	2	21	SLU	0.35	0.25	172.94	2.50	6634.02	9874.97	6634.02	6634.02	0.30	0.30	4087.96	2.50	7955.54	10150.40	7955.54	1.946
20.55	21.00	ø6/15	2	21	SLU	0.35	0.25	172.94	2.50	6634.02	10052.20	6634.02	6634.02	0.30	0.30	4087.96	2.50	7955.54	10332.50	7955.54	1.946
21.50	21.95	ø6/15	2	21	SLU	0.35	0.25	139.49	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	4233.81	2.50	7955.54	16914.20	7955.54	1.879
21.95	23.55	ø6/15	2	21	SLU	0.35	0.25	139.49	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	4233.81	2.50	7955.54	16914.20	7955.54	1.879
23.55	24.00	ø6/15	2	21	SLU	0.35	0.25	139.49	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	4233.81	2.50	7955.54	16914.20	7955.54	1.879
24.50	24.95	ø6/15	2	21	SLU	0.35	0.25	58.87	2.50	6634.02	15888.80	6634.02	6634.02	0.30	0.30	3261.46	2.50	7955.54	16331.90	7955.54	2.439
24.95	26.55	ø6/15	2	21	SLU	0.35	0.25	58.87	2.50	6634.02	15868.80	6634.02	6634.02	0.30	0.30	3261.46	2.50	7955.54	16311.40	7955.54	2.439
26.55	27.00	ø6/15	2	21	SLU	0.35	0.25	58.87	2.50	6634.02	15798.00	6634.02	6634.02	0.30	0.30	3261.46	2.50	7955.54	16238.50	7955.54	2.439

Pilastrata n. 19

Nodi: 19 319 519 719 919 1119 1319 1519 1719 1919

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1	R	40.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	El	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>y</sub>	Sic.
9.50	1(e)	SLU	4	10	0.00	-140825.00	-3622.92	-3622.92	-274.29	-2816.50	-260434.00	-9165.72	-7251.31	212.34	1.04	1.849
9.50	1(e)	SLU	4	10	0.00	-140825.00	-3622.92	-3622.92	-274.29	-2816.50	-246024.00	-8414.84	-6585.49	215.16	0.91	1.747
12.26	1(e)	SLU	4	10	276.00	-139569.00	3341.33	3341.33	329.41	2791.39	-246024.00	8252.12	6892.20	36.56	0.94	1.763
12.50	1(e)	SLU	5	10	0.00	-117299.00	-3598.86	-3598.86	-465.99	-2345.97	-246024.00	-9751.69	-6430.94	212.34	1.36	2.097
12.50	1(e)	SLU	5	10	0.00	-117299.00	-3598.86	-3598.86	-465.99	-2345.97	-246024.00	-9751.69	-6430.94	212.34	1.36	2.097
15.26	1(e)	SLU	5	10	276.00	-116043.00	3506.33	3506.33	529.46	2320.85	-246024.00	9791.00	6446.29	32.34	1.39	2.120
18.50	1(e)	SLU	7	7	0.00	-70050.60	-3265.34	-3265.34	-388.48	-1401.01	-70050.60	-7703.53	-3403.26	216.56	1.77	2.370
18.50	1(e)	SLU	7	7	0.00	-70050.60	-3265.34	-3265.34	-388.48	-1401.01	-70050.60	-7703.53	-3403.26	216.56	1.77	2.370
21.26	1(e)	SLU	7	7	276.00	-69108.80	4096.30	4096.30	403.93	-1382.18	-69108.80	8269.61	-2766.40	329.06	1.84	2.017
21.50	1(e)	SLU	8	7	0.00	-46715.90	-2672.66	-2672.66	-422.63	934.32	-46715.90	-7825.57	2603.69	149.06	2.90	2.913
21.50	1(e)	SLU	8	7	0.00	-46715.90	-2672.66	-2672.66	-422.63	934.32	-46715.90	-7167.10	2440.24	149.06	2.95	2.674
24.26	1(e)	SLU	8	7	276.00	-45774.00	4241.91	4241.91	449.11	-915.48	-45774.00	7848.31	-1585.61	337.50	3.22	1.845
24.50	1(e)	SLU	9	7	0.00	-23664.30	-2348.08	-2348.08	-190.33	473.29	-23664.30	-6124.65	1247.22	165.94	6.77	2.609
24.50	1(e)	SLU	9	7	0.00	-23664.30	-2348.08	-2348.08	-190.33	473.29	-23664.30	-6124.65	1247.22	165.94	6.77	2.609
27.26	1(e)	SLU	9	7	276.00	-22722.40	5712.19	5712.19	147.05	454.45	-22722.40	6145.65	585.61	5.62	8.91	1.077

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l
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Relazione di calcolo

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	α <grad>	ε <sub>x</sub>	Sic.
0.001	(e)	SLU	1	1	0.00	-213334.00	-2305.81	-4266.68	126.57	4266.68	-347346.00	-10699.80	11155.50	122.34	0.83	1.628
0.001	(e)	SLU	1	1	0.00	-213334.00	-2305.81	-4266.68	126.57	4266.68	-347346.00	-10699.80	11155.50	122.34	0.83	1.628
3.261	(e)	SLU	1	1	326.00	-211215.00	3159.49	4224.30	-121.49	-4224.30	-347346.00	10803.30	-11280.10	302.34	0.85	1.645
3.501	(e)	SLU	2	10	0.00	-188960.00	-2139.63	-3779.20	227.77	3779.20	-260434.00	-5379.93	5252.84	143.44	0.22	1.378
3.501	(e)	SLU	2	10	0.00	-188960.00	-2139.63	-3779.20	227.77	3779.20	-260434.00	-5379.93	5252.84	143.44	0.22	1.378
6.261	(e)	SLU	2	10	276.00	-187704.00	3619.98	3754.09	-129.31	-3754.09	-260434.00	5450.98	-5333.63	323.44	0.24	1.387
6.501	(e)	SLU	3	10	0.00	-164709.00	-3439.91	-3439.91	17.57	3294.19	-260434.00	-6855.06	6558.09	143.44	0.63	1.581
6.501	(e)	SLU	3	10	0.00	-164709.00	-3439.91	-3439.91	17.57	3294.19	-260434.00	-6855.06	6558.09	143.44	0.63	1.581
9.261	(e)	SLU	3	10	276.00	-163454.00	3336.58	3336.58	74.08	3269.07	-260434.00	6925.69	6618.55	36.56	0.65	1.593
15.501	(e)	SLU	6	7	0.00	-93636.10	-3464.64	-3464.64	-382.32	1872.72	-93636.10	-7095.75	3653.23	136.41	1.23	2.026
15.501	(e)	SLU	6	7	0.00	-93636.10	-3464.64	-3464.64	-382.32	1872.72	-93636.10	-7095.75	3653.23	136.41	1.23	2.026
18.261	(e)	SLU	6	7	276.00	-92694.30	3676.25	3676.25	370.09	-1853.89	-92694.30	6362.35	-3097.62	320.62	1.10	1.719

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.002	SLE	R	1	1	0.00	-152387.00	89.22	-1688.42	0.00	16.09	77.16	1131.15
0.004	SLE	Q	1	1	0.00	-130777.00	52.73	-1379.11	0.00	16.09	65.71	964.65
0.002	SLE	R	1	1	0.00	-152387.00	89.22	-1688.42	0.00	16.09	77.16	1131.15
0.004	SLE	Q	1	1	0.00	-130777.00	52.73	-1379.11	0.00	16.09	65.71	964.65
3.262	SLE	R	1	1	326.00	-150757.00	-82.93	2299.68	0.00	16.09	79.50	1157.66
3.264	SLE	Q	1	1	326.00	-129147.00	-30.38	1772.41	0.00	16.09	66.84	976.46
3.502	SLE	R	2	10	0.00	-134996.00	162.44	-1556.72	0.00	16.09	99.46	1423.24
3.504	SLE	Q	2	10	0.00	-115878.00	99.61	-1221.59	0.00	16.09	83.86	1204.94
3.502	SLE	R	2	10	0.00	-134996.00	162.44	-1556.72	0.00	16.09	99.46	1423.24
3.504	SLE	Q	2	10	0.00	-115878.00	99.61	-1221.59	0.00	16.09	83.86	1204.94
6.262	SLE	R	2	10	276.00	-134030.00	-93.77	2676.98	0.00	16.09	109.63	1532.18
6.264	SLE	Q	2	10	276.00	-114912.00	-52.45	2251.58	0.00	16.09	93.31	1305.98
6.502	SLE	R	3	10	0.00	-117669.00	16.68	-2541.69	0.00	16.09	97.62	1359.87
6.504	SLE	Q	3	10	0.00	-100947.00	-7.33	-2123.96	0.00	16.09	83.11	1159.63
6.502	SLE	R	3	10	0.00	-117669.00	16.68	-2541.69	0.00	16.09	97.62	1359.87
6.504	SLE	Q	3	10	0.00	-100947.00	-7.33	-2123.96	0.00	16.09	83.11	1159.63
9.262	SLE	R	3	10	276.00	-116703.00	51.20	2468.66	0.00	16.09	96.59	1346.38
9.264	SLE	Q	3	10	276.00	-99981.00	65.35	2070.32	0.00	16.09	82.48	1150.65
9.502	SLE	R	4	10	0.00	-100603.00	-196.60	-2675.35	0.00	16.09	90.14	1236.80
9.504	SLE	Q	4	10	0.00	-86202.60	-191.88	-2242.28	0.00	16.09	76.94	1056.54
9.502	SLE	R	4	10	0.00	-100603.00	-196.60	-2675.35	0.00	12.06	92.59	1273.18
9.504	SLE	Q	4	10	0.00	-86202.60	-191.88	-2242.28	0.00	12.06	79.05	1087.86
12.262	SLE	R	4	10	276.00	-99637.10	236.93	2471.65	0.00	12.06	90.29	1245.65
12.264	SLE	Q	4	10	276.00	-85236.60	223.45	2075.95	0.00	12.06	77.05	1063.56
12.502	SLE	R	5	10	0.00	-83789.40	-335.24	-2658.61	0.00	12.06	83.08	1126.59
12.504	SLE	Q	5	10	0.00	-71641.00	-312.04	-2226.03	0.00	12.06	70.79	960.72
12.502	SLE	R	5	10	0.00	-83789.40	-335.24	-2658.61	0.00	12.06	83.08	1126.59
12.504	SLE	Q	5	10	0.00	-71641.00	-312.04	-2226.03	0.00	12.06	70.79	960.72
15.262	SLE	R	5	10	276.00	-82823.40	381.15	2593.79	0.00	12.06	82.24	1115.12
15.264	SLE	Q	5	10	276.00	-70675.00	353.62	2176.23	0.00	12.06	70.06	950.46
15.502	SLE	R	6	7	0.00	-66878.30	-272.78	-2560.50	0.00	12.06	91.55	1220.27
15.504	SLE	Q	6	7	0.00	-56994.20	-248.28	-2150.47	0.00	12.06	77.87	1038.16
15.502	SLE	R	6	7	0.00	-66878.30	-272.78	-2560.50	0.00	8.04	96.90	1290.23
15.504	SLE	Q	6	7	0.00	-56994.20	-248.28	-2150.47	0.00	8.04	82.40	1097.43
18.262	SLE	R	6	7	276.00	-66153.80	264.43	2719.06	0.00	8.04	98.32	1303.51
18.264	SLE	Q	6	7	276.00	-56269.70	241.62	2293.72	0.00	8.04	83.64	1108.69
18.502	SLE	R	7	7	0.00	-50042.20	-277.08	-2416.37	0.00	8.04	80.60	1053.42
18.504	SLE	Q	7	7	0.00	-42451.20	-254.26	-2017.56	0.00	8.04	68.24	891.99
18.502	SLE	R	7	7	0.00	-50042.20	-277.08	-2416.37	0.00	8.04	80.60	1053.42
18.504	SLE	Q	7	7	0.00	-42451.20	-254.26	-2017.56	0.00	8.04	68.24	891.99
21.262	SLE	R	7	7	276.00	-49317.70	288.66	3026.97	0.00	8.04	88.65	1139.06
21.264	SLE	Q	7	7	276.00	-41726.70	263.00	2555.55	0.00	8.04	75.24	966.13
21.502	SLE	R	8	7	0.00	-33382.30	-299.98	-1980.67	0.00	8.04	60.80	778.51
21.504	SLE	Q	8	7	0.00	-28042.40	-268.48	-1644.14	0.00	8.04	51.07	653.76
21.502	SLE	R	8	7	0.00	-33382.30	-299.98	-1980.67	0.00	6.16	62.66	804.58
21.504	SLE	Q	8	7	0.00	-28042.40	-268.48	-1644.14	0.00	6.16	52.63	675.64
24.262	SLE	R	8	7	276.00	-32657.80	319.50	3140.80	3.08	3.08	84.96	1034.29
24.264	SLE	Q	8	7	276.00	-27317.90	281.75	2619.95	3.08	3.08	71.23	866.87
24.502	SLE	R	9	7	0.00	-16921.70	-130.55	-1739.29	3.08	3.08	45.92	554.06
24.504	SLE	Q	9	7	0.00	-13778.90	-138.93	-1483.71	3.08	3.08	39.90	475.73
24.502	SLE	R	9	7	0.00	-16921.70	-130.55	-1739.29	3.08	3.08	45.92	554.06
24.504	SLE	Q	9	7	0.00	-13778.90	-138.93	-1483.71	3.08	3.08	39.90	475.73
27.262	SLE	R	9	7	276.00	-16197.20	99.97	4199.36	3.08	3.08	116.91	2561.44
27.264	SLE	Q	9	7	276.00	-13054.40	118.79	3489.06	3.08	3.08	98.77	2198.59

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
27.264	SLE	Q	9	7	276.00	-13054.40	3489.06	118.79	39.00	208.00	0.50	14.00	176.79	3.08	217.26	2198.59	0.82	0.25
27.263	SLE	F	9	7	276.00	-13886.40	3691.93	113.16	39.00	208.00	0.50	14.00	177.21	3.08	218.17	2310.95	0.75	0.23

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <cm>	d <sub>y</sub> <cm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <cm>	d <sub>z</sub> <cm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
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## Relazione di calcolo

0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	76.09	1.00	4947.76	0.00	0.00	0.40	0.45	1676.47	1.00	6357.38	0.00	0.00	0.00
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	76.09	1.00	4947.76	0.00	0.00	0.40	0.45	1676.47	1.00	6357.38	0.00	0.00	0.00
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	76.09	1.00	4947.76	0.00	0.00	0.40	0.45	1676.47	1.00	6357.38	0.00	0.00	0.00
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	129.38	1.00	3710.82	0.00	0.00	0.40	0.30	2086.82	1.00	3182.21	0.00	0.00	0.00
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	129.38	1.00	3710.82	0.00	0.00	0.40	0.30	2086.82	1.00	3182.21	0.00	0.00	0.00
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	129.38	1.00	3710.82	0.00	0.00	0.40	0.30	2086.82	1.00	3182.21	0.00	0.00	0.00
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	20.47	1.00	3710.82	0.00	0.00	0.40	0.30	2455.25	1.00	3182.21	0.00	0.00	0.00
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	20.47	1.00	3710.82	0.00	0.00	0.40	0.30	2455.25	1.00	3182.21	0.00	0.00	0.00
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	20.47	1.00	3710.82	0.00	0.00	0.40	0.30	2455.25	1.00	3182.21	0.00	0.00	0.00
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	218.73	1.00	3710.82	0.00	0.00	0.40	0.30	2523.28	1.00	3182.21	0.00	0.00	0.00
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	218.73	1.00	3710.82	0.00	0.00	0.40	0.30	2523.28	1.00	3182.21	0.00	0.00	0.00
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	218.73	1.00	3710.82	0.00	0.00	0.40	0.30	2523.28	1.00	3182.21	0.00	0.00	0.00
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	360.67	1.94	7197.07	7197.07	7197.07	0.40	0.30	2574.35	2.11	6706.71	6706.71	6706.71	2.605
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	360.67	1.95	7250.14	7250.14	7250.14	0.40	0.30	2574.35	2.12	6754.58	6754.58	6754.58	2.624
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	360.67	2.01	7458.64	7458.64	7458.64	0.40	0.30	2574.35	2.18	6942.76	6942.76	6942.76	2.697
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	272.62	1.32	3513.56	3513.56	3513.56	0.30	0.30	2587.28	1.17	3710.86	3710.86	3710.86	1.434
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	272.62	1.34	3568.91	3568.91	3568.91	0.30	0.30	2587.28	1.19	3775.41	3775.41	3775.41	1.459
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	272.62	1.43	3782.26	3782.26	3782.26	0.30	0.30	2587.28	1.26	4023.30	4023.30	4023.30	1.555
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	287.10	2.50	6634.02	10174.40	6634.02	0.30	0.30	2667.26	2.50	7955.54	10458.10	7955.54	2.983
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	287.10	2.50	6634.02	10225.30	6634.02	0.30	0.30	2667.26	2.50	7955.54	10510.50	7955.54	2.983
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	287.10	2.50	6634.02	10429.10	6634.02	0.30	0.30	2667.26	2.50	7955.54	10720.00	7955.54	2.983
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	315.85	2.50	6634.02	16455.30	6634.02	0.30	0.30	2505.28	2.50	7955.54	16914.20	7955.54	3.176
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	315.85	2.50	6634.02	16455.30	6634.02	0.30	0.30	2505.28	2.50	7955.54	16914.20	7955.54	3.176
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	315.85	2.50	6634.02	16455.30	6634.02	0.30	0.30	2505.28	2.50	7955.54	16914.20	7955.54	3.176
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	122.24	2.50	6634.02	16236.50	6634.02	0.30	0.30	2920.39	2.50	7955.54	16689.30	7955.54	2.724
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	122.24	2.50	6634.02	16216.10	6634.02	0.30	0.30	2920.39	2.50	7955.54	16668.40	7955.54	2.724
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	122.24	2.50	6634.02	16134.60	6634.02	0.30	0.30	2920.39	2.50	7955.54	16584.60	7955.54	2.724

## Pilastrata n. 20

Nodi: 20 320 520 720 920 1120 1320 1520 1720 1920

### Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
1	R	40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

### Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>x</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-168636.00	-42.02	-3372.72	-1156.76	-3372.72	-333837.00	-12890.60	-12682.10	236.25	1.41	1.980
0.00	1(e)	SLU	1	1	0.00	-168636.00	-42.02	-3372.72	-1156.76	-3372.72	-333837.00	-12890.60	-12682.10	236.25	1.41	1.980
3.26	1(e)	SLU	1	1	326.00	-166517.00	236.73	3330.34	2240.98	3330.34	-333837.00	12941.70	12741.60	56.25	1.44	2.005
6.50	1(e)	SLU	3	10	0.00	-131626.00	-1141.82	-2632.52	-3170.25	-3170.25	-235893.00	-6533.05	-8098.52	225.00	1.04	1.792
6.50	1(e)	SLU	3	10	0.00	-131626.00	-1141.82	-2632.52	-3170.25	-3170.25	-235893.00	-6533.05	-8098.52	225.00	1.04	1.792
9.26	1(e)	SLU	3	10	276.00	-130370.00	1196.75	2607.41	3040.12	3040.12	-235893.00	6788.01	7905.38	43.59	1.06	1.809
9.50	1(e)	SLU	4	10	0.00	-112330.00	-1166.13	-2246.59	-3414.44	-3414.44	-235893.00	-6142.53	-9338.12	229.22	1.45	2.100
9.50	1(e)	SLU	4	10	0.00	-112330.00	-1166.13	-2246.59	-3414.44	-3414.44	-235893.00	-6142.53	-9338.12	229.22	1.45	2.100
12.26	1(e)	SLU	4	10	276.00	-111074.00	1124.89	2221.47	3222.95	3222.95	-235893.00	6416.38	9124.34	47.81	1.47	2.124
12.50	1(e)	SLU	5	10	0.00	-92694.20	-1206.97	-1853.88	-3753.93	-3753.93	-235893.00	-5248.18	-10394.20	234.84	1.95	2.545
12.50	1(e)	SLU	5	10	0.00	-92694.20	-1206.97	-1853.88	-3753.93	-3753.93	-235893.00	-5248.18	-10394.20	234.84	1.95	2.545
15.26	1(e)	SLU	5	10	276.00	-91438.40	1226.56	1828.77	3809.91	3809.91	-235893.00	5000.35	10575.60	56.25	1.99	2.580
15.50	1(e)	SLU	6	7	0.00	-73207.90	-1021.27	-1464.16	-2360.97	-2360.97	-185194.00	-3813.41	-6376.09	246.09	1.73	2.530
15.50	1(e)	SLU	6	7	0.00	-73207.90	-1021.27	-1464.16	-2360.97	-2360.97	-174161.00	-3764.10	-5968.39	241.88	1.62	2.379
18.26	1(e)	SLU	6	7	276.00	-72266.00	1305.21	1445.32	2532.60	2532.60	-174161.00	3568.49	6100.32	63.28	1.65	2.410
18.50	1(e)	SLU	7	7	0.00	-54291.70	-832.99	-1085.83	-2975.52	-2975.52	-54291.70	-2485.40	-6500.87	250.31	2.54	2.197
18.50	1(e)	SLU	7	7	0.00	-54291.70	-832.99	-1085.83	-2975.52	-2975.52	-54291.70	-2485.40	-6500.87	250.31	2.54	2.197
21.26	1	SLU	7	7	276.00	-53349.80	1589.81	1589.81	2798.86	2798.86	-53349.80	3302.64	5981.40	64.69	2.51	2.123
21.50	1(e)	SLU	8	7	0.00	-35001.30	-290.14	-700.03	-2922.30	-2922.30	-35001.30	-1427.39	-6069.86	258.75	4.61	2.075
21.50	1(e)	SLU	8	7	0.00	-35001.30	-290.14	-700.03	-2922.30	-2922.30	-35001.30	-1427.39	-6069.86	258.75	4.61	2.075
24.26	1	SLU	8	7	276.00	-34059.40	889.61	2738.22	2738.22	2738.22	-34059.40	1930.09	5862.67	74.53	4.27	2.144
24.50	1	SLU	9	7	0.00	-15343.20	-1921.74	-1921.74	-3256.86	-3256.86	-15343.20	-2403.91	-4170.37	253.12	6.67	1.273
24.50	1	SLU	9	7	0.00	-15343.20	-1921.74	-1921.74	-3256.86	-3256.86	-15343.20	-2403.91	-4170.37	253.12	6.67	1.273
27.26	1	SLU	9	7	276.00	-14401.40	4873.46	4873.46	3620.22	3620.22	-14401.40	4206.06	3205.80	47.81	5.23	0.871

### Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	2	3.00	29.69	29.08
---	2	3.00	29.69	29.08
---	2	3.00	29.69	29.08

### Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	α <grad>	ε <sub>x</sub>	Sic.
3.50	1(e)	SLU	2	10	0.00	-150534.00	-255.47	-3010.68	-2787.47	-3010.68	-246925.00	-6482.09	-6569.07	217.97	0.77	1.640
3.50	1(e)	SLU	2	10	0.00	-150534.00	-255.47	-3010.68	-2787.47	-3010.68	-235893.00	-6003.93	-5826.02	219.38	0.66	1.567
6.26	1(e)	SLU	2	10	276.00	-149278.00	1333.38	2985.57	2775.58	2985.57	-235893.00	6064.02	5877.00	39.38	0.68	1.580

### Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>	
0.00	2	SLE	R	1	1	0.00	-120177.00	-818.13	-69.40	0.00	12.31	60.84	892.69
0.00	4	SLE	Q	1	1	0.00	-105347.00	-668.66	112.20	0.00	12.31	53.28	782.11
0.00	2	SLE	R	1	1	0.00	-120177.00	-818.13	-69.40	0.00	12.31	60.84	892.69
0.00	4	SLE	Q	1	1	0.00	-105347.00	-668.66	112.20	0.00	12.31	53.28	782.11
3.26	2	SLE	R	1	1	326.00	-118547.00	1587.04	246.61	0.00	12.31	66.16	952.23
3.26	4	SLE	Q	1	1	326.00	-103717.00	1296.47	-164.64	0.00	12.31	57.00	822.72
3.50	2	SLE	R	2	10	0.00	-107312.00	-1979.91	-242.31	0.00	12.31	88.31	1252.34



Relazione di calcolo

3.504	SLE Q	2	10	0.00	-93952.50	-1626.04	31.61	0.00	12.31	74.43	1064.08
3.502	SLE R	2	10	0.00	-107312.00	-1979.91	-242.31	0.00	9.24	91.29	1293.77
3.504	SLE Q	2	10	0.00	-93952.50	-1626.04	31.61	0.00	9.24	76.99	1099.76
6.262	SLE R	2	10	276.00	-106346.00	1980.11	1064.84	0.00	9.24	99.34	1380.27
6.264	SLE Q	2	10	276.00	-92986.50	1639.42	729.38	0.00	9.24	83.85	1173.18
6.502	SLE R	3	10	0.00	-93851.60	-2264.84	-930.92	0.00	9.24	92.53	1274.37
6.504	SLE Q	3	10	0.00	-82038.20	-1877.12	-581.32	0.00	9.24	77.45	1075.50
6.502	SLE R	3	10	0.00	-93851.60	-2264.84	-930.92	0.00	9.24	92.53	1274.37
6.504	SLE Q	3	10	0.00	-82038.20	-1877.12	-581.32	0.00	9.24	77.45	1075.50
9.262	SLE R	3	10	276.00	-92885.60	2171.54	967.31	0.00	9.24	91.39	1258.87
9.264	SLE Q	3	10	276.00	-81072.20	1794.32	633.74	0.00	9.24	76.58	1063.02
9.502	SLE R	4	10	0.00	-80110.90	-2438.96	-942.18	0.00	9.24	85.39	1161.01
9.504	SLE Q	4	10	0.00	-69899.90	-2010.42	-591.75	0.00	9.24	70.95	973.14
9.502	SLE R	4	10	0.00	-80110.90	-2438.96	-942.18	0.00	9.24	85.39	1161.01
9.504	SLE Q	4	10	0.00	-69899.90	-2010.42	-591.75	0.00	9.24	70.95	973.14
12.262	SLE R	4	10	276.00	-79144.90	2302.75	910.11	0.00	9.24	83.12	1132.76
12.264	SLE Q	4	10	276.00	-68933.90	1896.60	583.99	0.00	9.24	69.15	950.21
12.502	SLE R	5	10	0.00	-66127.50	-2681.96	-975.96	0.00	9.24	78.99	1055.53
12.504	SLE Q	5	10	0.00	-57568.70	-2204.91	-615.11	0.00	9.24	65.05	877.18
12.502	SLE R	5	10	0.00	-66127.50	-2681.96	-975.96	0.00	9.24	78.99	1055.53
12.504	SLE Q	5	10	0.00	-57568.70	-2204.91	-615.11	0.00	9.24	65.05	877.18
15.262	SLE R	5	10	276.00	-65161.50	2722.34	991.45	0.00	9.24	78.91	1052.39
15.264	SLE Q	5	10	276.00	-56602.70	2237.45	637.15	0.00	9.24	64.96	873.93
15.502	SLE R	6	7	0.00	-52250.70	-1685.29	-828.45	0.00	9.24	83.58	1078.77
15.504	SLE Q	6	7	0.00	-45327.40	-1384.20	-512.52	0.00	9.24	68.42	891.53
15.502	SLE R	6	7	0.00	-52250.70	-1685.29	-828.45	0.00	6.16	86.06	1113.15
15.504	SLE Q	6	7	0.00	-45327.40	-1384.20	-512.52	0.00	6.16	70.39	919.43
18.262	SLE R	6	7	276.00	-51526.20	1808.47	1038.44	0.00	6.16	90.50	1158.44
18.264	SLE Q	6	7	276.00	-44602.90	1484.19	700.42	0.00	6.16	74.13	957.16
18.502	SLE R	7	7	0.00	-38798.60	-2124.14	-697.07	0.00	6.16	80.65	1000.77
18.504	SLE Q	7	7	0.00	-33486.40	-1738.95	-384.74	0.00	6.16	64.38	807.86
18.502	SLE R	7	7	0.00	-38798.60	-2124.14	-697.07	0.00	6.16	80.65	1000.77
18.504	SLE Q	7	7	0.00	-33486.40	-1738.95	-384.74	0.00	6.16	64.38	807.86
21.262	SLE R	7	7	276.00	-38074.10	1998.35	1245.15	1.54	4.62	86.84	1066.30
21.264	SLE Q	7	7	276.00	-32761.90	1635.38	874.40	1.54	4.62	69.60	863.32
21.502	SLE R	8	7	0.00	-25076.80	-2084.36	-305.31	3.08	3.08	67.01	787.72
21.504	SLE Q	8	7	0.00	-21422.80	-1705.68	-56.04	3.08	3.08	51.26	611.45
21.502	SLE R	8	7	0.00	-25076.80	-2084.36	-305.31	3.08	3.08	67.01	787.72
21.504	SLE Q	8	7	0.00	-21422.80	-1705.68	-56.04	3.08	3.08	51.26	611.45
24.262	SLE R	8	7	276.00	-24352.30	1953.86	752.33	1.54	4.62	72.30	844.97
24.264	SLE Q	8	7	276.00	-20698.30	1604.50	429.21	1.54	4.62	55.46	656.90
24.502	SLE R	9	7	0.00	-11089.10	-2320.58	-1468.70	3.08	3.08	123.88	2292.63
24.504	SLE Q	9	7	0.00	-9151.03	-1868.84	-1093.92	3.08	3.08	96.41	1760.15
24.502	SLE R	9	7	0.00	-11089.10	-2320.58	-1468.70	3.08	3.08	123.88	2292.63
24.504	SLE Q	9	7	0.00	-9151.03	-1868.84	-1093.92	3.08	3.08	96.41	1760.15
27.262	SLE R	9	7	276.00	-10364.60	2581.09	3582.85	4.62	1.54	208.52	4473.77
27.264	SLE Q	9	7	276.00	-8426.53	2044.33	2911.07	4.62	1.54	167.12	3578.95

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.504	SLE Q	9	7	0.00	-9151.03	-1093.92	-1868.84	39.00	258.00	0.50	14.00	185.19	1.54	105.66	1760.15	0.62	0.19
24.503	SLE F	9	7	0.00	-9677.42	-1201.16	-1994.39	39.00	258.00	0.50	14.00	186.44	1.54	104.84	1911.49	0.57	0.18
24.504	SLE Q	9	7	0.00	-9151.03	-1093.92	-1868.84	39.00	258.00	0.50	14.00	185.19	1.54	105.66	1760.15	0.62	0.19
24.503	SLE F	9	7	0.00	-9677.42	-1201.16	-1994.39	39.00	258.00	0.50	14.00	186.44	1.54	104.84	1911.49	0.57	0.18
27.264	SLE Q	9	7	276.00	-8426.53	2911.07	2044.33	39.00	258.00	0.50	14.00	223.19	1.54	94.42	3578.95	1.52	0.58
27.263	SLE F	9	7	276.00	-8952.92	3103.29	2191.11	39.00	258.00	0.50	14.00	223.25	1.54	94.55	3832.63	1.54	0.58

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <mm>	d <sub>y</sub> <mm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <mm>	d <sub>z</sub> <mm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	1042.25	1.97	9757.15	9757.15	9757.15	0.40	0.45	85.50	1.71	10847.00	10847.00	10847.00	9.362	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	1042.25	1.99	9845.15	9845.14	9845.14	0.40	0.45	85.50	1.72	10951.50	10951.50	10951.50	9.446	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	1042.25	2.06	10189.50	10189.50	10189.50	0.40	0.45	85.50	1.79	11360.00	11360.00	11360.00	9.776	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	2015.60	1.00	3710.82	0.00	0.00	0.40	0.30	575.67	1.00	3182.21	0.00	0.00	0.000	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	2015.60	1.00	3710.82	0.00	0.00	0.40	0.30	575.67	1.00	3182.21	0.00	0.00	0.000	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	2015.60	1.00	3710.82	0.00	0.00	0.40	0.30	575.67	1.00	3182.21	0.00	0.00	0.000	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	2250.13	1.00	3710.82	1762.64	1762.64	0.40	0.30	847.31	1.00	3182.21	1727.49	1727.49	0.783	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	2250.13	1.00	3710.82	1865.95	1865.95	0.40	0.30	847.31	1.00	3182.21	1828.74	1828.74	0.829	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	2250.13	1.00	3710.82	2279.18	2279.18	0.40	0.30	847.31	1.00	3182.21	2233.73	2233.73	1.013	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	2404.85	2.25	8366.63	8366.63	8366.63	0.40	0.30	830.08	2.44	7763.91	7763.91	7763.91	3.479	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	2404.85	2.27	8412.32	8412.32	8412.32	0.40	0.30	830.08	2.45	7805.30	7805.30	7805.30	3.498	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	2404.85	2.32	8592.67	8592.67	8592.67	0.40	0.30	830.08	2.50	7955.54	7978.26	7955.54	3.573	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	2740.52	2.50	9277.05	14468.40	9277.05	0.40	0.30	881.71	2.50	7955.54	14179.90	7955.54	3.385	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	2740.52	2.50	9277.05	14539.70	9277.05	0.40	0.30	881.71	2.50	7955.54	14249.70	7955.54	3.385	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	2740.52	2.50	9277.05	14824.70	9277.05	0.40	0.30	881.71	2.50	7955.54	14529.00	7955.54	3.385	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	1773.03	2.50	6634.02	9149.61	6634.02	0.30	0.30	842.93	2.50	7955.54	9404.78	7955.54	3.742	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	1773.03	2.50	6634.02	9200.56	6634.02	0.30	0.30	842.93	2.50	7955.54	9457.15	7955.54	3.742	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	1773.03	2.50	6634.02	9404.36	6634.02	0.30	0.30	842.93	2.50	7955.54	9666.63	7955.54	3.742	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	2092.17	2.50	6634.02	15289.20	6634.02	0.30	0.30	877.83	2.50	7955.54	15715.60	7955.54	3.171	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	2092.17	2.50	6634.02	15340.20	6634.02	0.30	0.30	877.83	2.50	7955.54	15768.00	7955.54	3.171	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	2092.16	2.50	6634.02	15544.00	6634.02	0.30	0.30	877.83	2.50	7955.54	15977.50	7955.54	3.171	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	2050.92	2.50	6634.02	16455.30	6634.02	0.30	0.30	427.45	2.50	7955.54	16914.20	7955.54	3.235	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	2050.92	2.50	6634.02	16455.30	6634.02	0.30	0.30	427.45	2.50	7955.54	16914.20	7955.54	3.235	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	2050.91	2.50	6634.02	16455.30	6634.02	0.30	0.30	427.45	2.50	7955.54	16914.20	7955.54	3.235	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	2491.70	2.50	6634.02	15156.20	6634.02	0.30	0.30	2462.03	2.50	7955.54	15578.90	7955.54	2.662	



Relazione di calcolo

24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	2491.70	2.50	6634.02	15135.80	6634.02	0.30	0.30	2462.03	2.50	7955.54	15558.00	7955.54	2.662
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	2491.69	2.50	6634.02	15054.30	6634.02	0.30	0.30	2462.03	2.50	7955.54	15474.20	7955.54	2.662

Pilastrata n. 25

Nodi: 25 325 525 725 925 1125 1325 1525 1725 1925

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
50R		25.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
50R		25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>y</sub>	Sic.
9.50	1(e)	SLU	4	50	0.00	-80785.80	233.46	1615.72	2112.97	2112.97	-303890.00	7291.73	9460.08	84.02	2.75	3.762
9.50	1(e)	SLU	4	50	0.00	-80785.80	233.46	1615.72	2112.97	2112.97	-303890.00	7291.73	9460.08	84.02	2.75	3.762
12.26	1(e)	SLU	4	50	276.00	-79260.90	78.67	1585.22	-2078.26	-2078.26	-303890.00	7283.50	-9426.35	275.98	2.80	3.834
12.50	1(e)	SLU	5	50	0.00	-68060.80	169.49	-1361.22	2186.18	2186.18	-68060.80	-5996.87	9332.85	94.92	3.25	4.308
12.50	1(e)	SLU	5	50	0.00	-68060.80	169.49	-1361.22	2186.18	2186.18	-68060.80	-5996.87	9332.85	94.92	3.25	4.308
15.26	1(e)	SLU	5	50	276.00	-66535.90	180.45	1330.72	-2157.09	-2157.09	-66535.90	5645.52	-9313.79	274.57	3.35	4.297
15.50	1(e)	SLU	6	50	0.00	-55166.80	371.44	-1103.34	2279.97	2279.97	-55166.80	-4422.65	9024.72	93.16	4.08	3.968
15.50	1(e)	SLU	6	50	0.00	-55166.80	371.44	1103.34	2279.97	2279.97	-55166.80	3982.53	8427.38	86.13	4.56	3.680
18.26	1(e)	SLU	6	50	276.00	-53641.90	670.29	-1072.84	-2245.34	-2245.34	-53641.90	-3827.66	-8367.30	266.48	4.80	3.698
18.50	1	SLU	7	50	0.00	-42144.80	1281.19	1281.19	2390.17	2390.17	-42144.80	4060.07	7576.86	86.48	5.75	3.170
18.50	1	SLU	7	50	0.00	-42144.80	1281.19	1281.19	2390.17	2390.17	-42144.80	4060.07	7576.86	86.48	5.75	3.170
21.26	1	SLU	7	50	276.00	-40619.90	983.69	983.69	-2380.85	-2380.85	-40619.90	3020.33	-7520.60	272.46	6.27	3.146
21.50	1	SLU	8	50	0.00	-29057.40	2495.73	2495.73	2334.26	2334.26	-29057.40	6844.88	6412.83	83.67	5.97	2.745
21.50	1	SLU	8	50	0.00	-29057.40	2495.73	2495.73	2334.26	2334.26	-29057.40	6844.88	6412.83	83.67	5.97	2.745
24.26	1	SLU	8	50	276.00	-27532.50	553.98	553.98	-2100.95	-2100.95	-27532.50	1601.20	-6523.24	271.23	8.45	3.091
24.50	1	SLU	9	50	0.00	-15769.50	3245.33	3245.33	3212.65	3212.65	-15769.50	5549.68	5458.58	85.43	7.88	1.705
24.50	1	SLU	9	50	0.00	-15769.50	3245.33	3245.33	3212.65	3212.65	-15769.50	5549.68	5458.58	85.43	7.88	1.705
27.26	1	SLU	9	50	276.00	-14244.60	-2804.81	-2804.81	-4283.25	-4283.25	-14244.60	-3435.53	-5440.38	267.54	9.40	1.257

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	1	3.50	48.50	36.24
---	2	3.00	41.57	38.29
---	3	3.00	41.57	40.77

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	1	3.50	48.50	36.24
---	2	3.00	41.57	38.29

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	1	3.50	48.50	36.24
---	3	3.00	41.57	40.77

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	2	3.00	41.57	38.29
---	3	3.00	41.57	40.77

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	α <grad>	ε <sub>y</sub>	Sic.
0.00	1(e)	SLU	1	50	0.00	-118073.00	-157.88	-2361.46	771.14	2361.46	-318299.00	-8291.35	8241.45	98.09	1.79	2.696
0.00	1(e)	SLU	1	50	0.00	-118073.00	-157.88	-2361.46	771.14	2361.46	-318299.00	-8291.35	8241.45	98.09	1.79	2.696
3.26	1(e)	SLU	1	50	326.00	-116272.00	628.59	2325.44	-1320.72	-2325.44	-318299.00	8325.55	-8258.87	278.09	1.83	2.738
3.50	1(e)	SLU	2	50	0.00	-105760.00	253.74	2115.19	2118.68	2118.68	-318299.00	8783.69	8979.85	81.91	2.06	3.010
3.50	1(e)	SLU	2	50	0.00	-105760.00	253.74	2115.19	2118.68	2118.68	-303890.00	8261.16	7974.28	82.27	2.03	2.873
6.26	1(e)	SLU	2	50	276.00	-104235.00	600.98	2084.69	-1944.95	-2084.69	-303890.00	8275.19	-7964.60	277.73	2.07	2.915
6.50	1(e)	SLU	3	50	0.00	-93351.50	494.23	1867.03	1977.29	1977.29	-303890.00	7544.24	8040.53	82.97	2.35	3.255
6.50	1(e)	SLU	3	50	0.00	-93351.50	494.23	1867.03	1977.29	1977.29	-303890.00	7544.24	8040.53	82.97	2.35	3.255
9.26	1(e)	SLU	3	50	276.00	-91826.70	206.85	1836.53	-1978.97	-1978.97	-303890.00	7518.31	-8069.12	277.03	2.39	3.309

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cm²>	σ <sub>f</sub> <daN/cm²>
0.00	2	SLE	R	1	50	0.00	-85568.10	546.72	-92.12	0.00	20.11	708.15
0.00	4	SLE	Q	1	50	0.00	-73814.20	440.07	-81.35	0.00	20.11	607.40
0.00	2	SLE	R	1	50	0.00	-85568.10	546.72	-92.12	0.00	20.11	708.15
0.00	4	SLE	Q	1	50	0.00	-73814.20	440.07	-81.35	0.00	20.11	607.40
3.26	2	SLE	R	1	50	326.00	-84182.60	-935.25	485.03	0.00	20.11	762.81
3.26	4	SLE	Q	1	50	326.00	-72428.60	-751.85	450.04	0.00	20.11	652.07
3.50	2	SLE	R	2	50	0.00	-76585.40	1499.44	212.07	0.00	20.11	755.23
3.50	4	SLE	Q	2	50	0.00	-65967.40	1201.45	172.13	0.00	20.11	639.75
3.50	2	SLE	R	2	50	0.00	-76585.40	1499.44	212.07	0.00	16.09	779.49
3.50	4	SLE	Q	2	50	0.00	-65967.40	1201.45	172.13	0.00	16.09	660.26
6.26	2	SLE	R	2	50	276.00	-75412.40	-1375.36	452.60	0.00	16.09	768.89
6.26	4	SLE	Q	2	50	276.00	-64794.40	-1099.03	417.93	0.00	16.09	652.49
6.50	2	SLE	R	3	50	0.00	-67557.40	1396.24	389.54	0.00	16.09	707.23
6.50	4	SLE	Q	3	50	0.00	-58127.40	1108.90	326.18	0.00	16.09	597.16
6.50	2	SLE	R	3	50	0.00	-67557.40	1396.24	389.54	0.00	16.09	707.23
6.50	4	SLE	Q	3	50	0.00	-58127.40	1108.90	326.18	0.00	16.09	597.16
9.26	2	SLE	R	3	50	276.00	-66384.40	-1396.75	153.33	0.00	16.09	685.42
9.26	4	SLE	Q	3	50	276.00	-56954.40	-1108.14	157.62	0.00	16.09	578.86
9.50	2	SLE	R	4	50	0.00	-58422.90	1489.82	197.45	0.00	16.09	637.23
9.50	4	SLE	Q	4	50	0.00	-50207.40	1176.24	162.74	0.00	16.09	535.01
9.50	2	SLE	R	4	50	0.00	-58422.90	1489.82	197.45	0.00	16.09	637.23
9.50	4	SLE	Q	4	50	0.00	-50207.40	1176.24	162.74	0.00	16.09	535.01



Relazione di calcolo

12.26	2	SLE R	4	50	276.00	-57249.90	-1464.71	53.06	0.00	16.09	48.10	617.38
12.26	4	SLE Q	4	50	276.00	-49034.40	-1155.13	68.59	0.00	16.09	40.05	518.36
12.50	2	SLE R	5	50	0.00	-49179.90	1539.55	151.34	0.00	16.09	45.30	569.15
12.50	4	SLE Q	5	50	0.00	-42204.70	1209.88	124.57	0.00	16.09	37.45	475.06
12.50	2	SLE R	5	50	0.00	-49179.90	1539.55	151.34	0.00	16.09	45.30	569.15
12.50	4	SLE Q	5	50	0.00	-42204.70	1209.88	124.57	0.00	16.09	37.45	475.06
15.26	2	SLE R	5	50	276.00	-48006.90	-1518.79	123.10	0.00	16.09	44.32	556.12
15.26	4	SLE Q	5	50	276.00	-41031.70	-1193.49	129.32	0.00	16.09	36.66	464.33
15.50	2	SLE R	6	50	0.00	-39819.70	1604.66	300.44	0.00	16.09	41.93	512.61
15.50	4	SLE Q	6	50	0.00	-34108.80	1258.26	258.97	0.00	16.09	34.46	425.48
15.50	2	SLE R	6	50	0.00	-39819.70	1604.66	300.44	0.00	12.06	42.67	523.55
15.50	4	SLE Q	6	50	0.00	-34108.80	1258.26	258.97	0.00	12.06	35.09	434.89
18.26	2	SLE R	6	50	276.00	-38646.70	-1580.27	478.30	0.00	12.06	42.54	521.75
18.26	4	SLE Q	6	50	276.00	-32935.80	-1239.83	427.48	0.00	12.06	34.99	433.13
18.50	2	SLE R	7	50	0.00	-30371.20	1681.12	967.96	2.01	10.05	43.16	509.68
18.50	4	SLE Q	7	50	0.00	-25942.90	1316.48	830.52	2.01	10.05	34.82	416.91
18.50	2	SLE R	7	50	0.00	-30371.20	1681.12	967.96	2.01	10.05	43.16	509.68
18.50	4	SLE Q	7	50	0.00	-25942.90	1316.48	830.52	2.01	10.05	34.82	416.91
21.26	2	SLE R	7	50	276.00	-29198.20	-1673.92	702.72	2.01	10.05	41.27	483.34
21.26	4	SLE Q	7	50	276.00	-24769.90	-1310.03	601.27	2.01	10.05	33.11	393.31
21.50	2	SLE R	8	50	0.00	-20878.70	1642.90	1855.65	6.03	6.03	48.93	540.07
21.50	4	SLE Q	8	50	0.00	-17744.60	1286.76	1570.86	4.02	8.04	38.61	435.10
21.50	2	SLE R	8	50	0.00	-20878.70	1642.90	1855.65	6.03	6.03	48.93	540.07
21.50	4	SLE Q	8	50	0.00	-17744.60	1286.76	1570.86	4.02	8.04	38.61	435.10
24.26	2	SLE R	8	50	276.00	-19705.70	-1481.88	379.12	6.03	6.03	34.67	378.08
24.26	4	SLE Q	8	50	276.00	-16571.60	-1164.79	302.67	6.03	6.03	27.20	302.71
24.50	2	SLE R	9	50	0.00	-11251.10	2245.02	2395.53	6.03	6.03	79.46	1511.04
24.50	4	SLE Q	9	50	0.00	-9448.70	1740.32	1994.87	6.03	6.03	62.40	1136.94
24.50	2	SLE R	9	50	0.00	-11251.10	2245.02	2395.53	6.03	6.03	79.46	1511.04
24.50	4	SLE Q	9	50	0.00	-9448.70	1740.32	1994.87	6.03	6.03	62.40	1136.94
27.26	2	SLE R	9	50	276.00	-10078.10	-2979.15	-2089.74	6.03	6.03	97.25	2219.44
27.26	4	SLE Q	9	50	276.00	-8275.70	-2290.83	-1745.31	6.03	6.03	75.98	1686.01

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.50	4	SLE Q	9	50	0.00	-9448.70	1994.87	1740.32	39.00	293.00	0.50	16.00	230.52	2.01	191.66	1136.94	0.33	0.13
24.50	3	SLE F	9	50	0.00	-9909.33	2109.55	1877.02	39.00	293.00	0.50	16.00	234.14	2.01	196.21	1241.50	0.36	0.14
24.50	4	SLE Q	9	50	0.00	-9448.70	1994.87	1740.32	39.00	293.00	0.50	16.00	230.52	2.01	191.66	1136.94	0.33	0.13
24.50	3	SLE F	9	50	0.00	-9909.33	2109.55	1877.02	39.00	293.00	0.50	16.00	234.14	2.01	196.21	1241.50	0.36	0.14
27.26	4	SLE Q	9	50	276.00	-8275.70	-1745.31	-2290.83	39.00	293.00	0.50	16.00	297.88	2.01	276.31	1686.01	0.49	0.25
27.26	3	SLE F	9	50	276.00	-8736.33	-1844.13	-2470.91	39.00	293.00	0.50	16.00	300.77	2.01	279.94	1827.95	0.53	0.27

Stato limite ultimo - Verifiche a taglio

X0 <mm>	X1 <mm>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <mm>	d <sub>y</sub> <mm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <mm>	d <sub>z</sub> <mm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.68	ø8/20	2	21	SLU	0.68	0.20	641.68	2.50	7083.33	14376.90	7083.33	0.25	0.63	241.25	2.10	18678.90	18678.90	18678.90	11.039	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.20	641.68	2.50	7083.33	14494.10	7083.33	0.25	0.63	241.25	2.11	18772.00	18772.00	18772.00	11.039	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.20	641.68	2.50	7083.33	14821.50	7083.33	0.25	0.63	241.25	2.14	19029.90	19029.90	19029.90	11.039	
3.50	4.18	ø6/15	2	21	SLU	0.68	0.20	1472.33	2.50	5312.50	18217.40	5312.50	0.25	0.63	125.81	2.50	16677.60	21025.70	16677.60	3.608	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.20	1472.33	2.50	5312.50	18334.60	5312.50	0.25	0.63	125.81	2.50	16677.60	21161.00	16677.60	3.608	
5.58	6.26	ø6/15	2	21	SLU	0.68	0.20	1472.33	2.50	5312.50	18575.80	5312.50	0.25	0.63	125.81	2.50	16677.60	21439.40	16677.60	3.608	
6.50	7.18	ø6/15	2	21	SLU	0.68	0.20	1433.43	2.50	5312.50	22087.40	5312.50	0.25	0.63	104.12	2.50	16677.60	25492.30	16677.60	3.706	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.20	1433.43	2.50	5312.50	22204.60	5312.50	0.25	0.63	104.12	2.50	16677.60	25627.60	16677.60	3.706	
8.58	9.26	ø6/15	2	21	SLU	0.68	0.20	1433.43	2.50	5312.50	22445.90	5312.50	0.25	0.63	104.12	2.50	16677.60	25906.00	16677.60	3.706	
9.50	10.18	ø6/15	2	21	SLU	0.68	0.20	1518.56	2.50	5312.50	25601.70	5312.50	0.25	0.63	56.08	2.50	16677.60	29548.40	16677.60	3.498	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.20	1518.56	2.50	5312.50	25601.70	5312.50	0.25	0.63	56.08	2.50	16677.60	29548.40	16677.60	3.498	
11.58	12.26	ø6/15	2	21	SLU	0.68	0.20	1518.56	2.50	5312.50	25601.70	5312.50	0.25	0.63	56.08	2.50	16677.60	29548.40	16677.60	3.498	
12.50	13.18	ø6/15	2	21	SLU	0.68	0.20	1573.65	2.50	5312.50	25601.70	5312.50	0.25	0.63	3.97	2.50	16677.60	29548.40	16677.60	3.376	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.20	1573.65	2.50	5312.50	25601.70	5312.50	0.25	0.63	3.97	2.50	16677.60	29548.40	16677.60	3.376	
14.58	15.26	ø6/15	2	21	SLU	0.68	0.20	1573.65	2.50	5312.50	25601.70	5312.50	0.25	0.63	3.97	2.50	16677.60	29548.40	16677.60	3.376	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	1639.60	2.50	5312.50	25601.70	5312.50	0.25	0.63	108.28	2.50	16677.60	29548.40	16677.60	3.240	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	1639.61	2.50	5312.50	25601.70	5312.50	0.25	0.63	108.28	2.50	16677.60	29548.40	16677.60	3.240	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	1639.61	2.50	5312.50	25601.70	5312.50	0.25	0.63	108.28	2.50	16677.60	29548.40	16677.60	3.240	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	1728.63	2.50	5312.50	25601.70	5312.50	0.25	0.63	107.79	2.50	16677.60	29548.40	16677.60	3.073	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	1728.63	2.50	5312.50	25601.70	5312.50	0.25	0.63	107.79	2.50	16677.60	29548.40	16677.60	3.073	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	1728.63	2.50	5312.50	25595.90	5312.50	0.25	0.63	107.79	2.50	16677.60	29541.70	16677.60	3.073	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	1606.96	2.50	5312.50	24106.50	5312.50	0.25	0.63	703.54	2.50	16677.60	27822.70	16677.60	3.306	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	1606.96	2.50	5312.50	24059.70	5312.50	0.25	0.63	703.54	2.50	16677.60	27768.60	16677.60	3.306	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	1606.96	2.50	5312.50	23963.20	5312.50	0.25	0.63	703.54	2.50	16677.60	27657.20	16677.60	3.306	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	2715.91	2.50	5312.50	22448.80	5312.50	0.25	0.63	2192.08	2.50	16677.60	25909.40	16677.60	1.956	
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	2715.91	2.50	5312.50	22401.90	5312.50	0.25	0.63	2192.08	2.50	16677.60	25855.30	16677.60	1.956	
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	2715.91	2.50	5312.50	22305.40	5312.50	0.25	0.63	2192.08	2.50	16677.60	25743.90	16677.60	1.956	

Pilastrata n. 26

Nodi: 26 326 526 726 926 1126 1326 1526 1726 1926

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
	2R	40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
	21R	30.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
	22R	25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94



Relazione di calcolo

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>y</sub>	Sic.
0.00	1(e)	SLU	1	2	0.00	-189364.00	801.30	3787.29	134.36	3787.29	-466051.00	20676.50	21393.00	68.91	1.97	2.461
0.00	1(e)	SLU	1	2	0.00	-189364.00	801.30	3787.29	134.36	3787.29	-466051.00	20676.50	21393.00	68.91	1.97	2.461
3.26	1(e)	SLU	1	2	326.00	-186482.00	587.75	3729.65	102.66	3729.65	-466051.00	20684.90	21408.50	68.91	2.01	2.499
6.50	1(e)	SLU	3	21	0.00	-147023.00	354.04	2940.46	101.32	2940.46	-353140.00	12920.00	12634.50	78.05	1.74	2.402
6.50	1(e)	SLU	3	21	0.00	-147023.00	354.04	2940.46	101.32	2940.46	-353140.00	12920.00	12634.50	78.05	1.74	2.402
9.26	1(e)	SLU	3	21	276.00	-145193.00	169.53	2903.86	-135.22	-2903.86	-353140.00	12925.30	-12642.60	281.95	1.77	2.432
9.50	1(e)	SLU	4	21	0.00	-126701.00	168.21	2534.03	142.44	2534.03	-353140.00	12959.80	12608.40	78.05	2.15	2.787
9.50	1(e)	SLU	4	21	0.00	-126701.00	168.21	2534.03	142.44	2534.03	-353140.00	12959.80	12608.40	78.05	2.15	2.787
12.26	1(e)	SLU	4	21	276.00	-124872.00	66.41	2497.43	-177.67	-2497.43	-353140.00	12962.50	-12596.70	281.95	2.19	2.828
12.50	1(e)	SLU	5	21	0.00	-106507.00	78.25	2130.14	245.98	2130.14	-353140.00	12252.80	12585.70	78.75	2.60	3.316
12.50	1(e)	SLU	5	21	0.00	-106507.00	78.25	2130.14	245.98	2130.14	-353140.00	12252.80	12585.70	78.75	2.60	3.316
15.26	1(e)	SLU	5	21	276.00	-104677.00	150.13	2093.55	-340.52	-2093.55	-353140.00	12253.40	-12556.90	281.25	2.65	3.374
15.50	1(e)	SLU	6	22	0.00	-86423.50	189.54	1728.47	281.00	1728.47	-303890.00	9472.29	9170.42	82.27	2.53	3.516
15.50	1(e)	SLU	6	22	0.00	-86423.50	189.54	1728.47	281.00	1728.47	-289480.00	8793.58	8787.99	80.86	2.53	3.350
18.26	1(e)	SLU	6	22	276.00	-84898.60	346.45	1697.97	-328.44	-1697.97	-289480.00	8779.97	-8764.22	279.14	2.57	3.410
18.50	1(e)	SLU	7	22	0.00	-66816.10	417.96	1336.32	353.06	1336.32	-289480.00	8259.36	8327.54	81.21	3.25	4.332
18.50	1(e)	SLU	7	22	0.00	-66816.10	417.96	1336.32	353.06	1336.32	-289480.00	8259.36	8327.54	81.21	3.25	4.332
21.26	1(e)	SLU	7	22	276.00	-65291.20	532.49	1305.82	-356.01	-1305.82	-289480.00	8236.54	-8270.84	278.79	3.32	4.434
21.50	1(e)	SLU	8	22	0.00	-47290.70	601.28	945.82	450.95	945.82	-289480.00	7548.23	7560.19	81.91	4.26	6.121
21.50	1(e)	SLU	8	22	0.00	-47290.70	601.28	945.82	450.95	945.82	-289480.00	7548.23	7560.19	81.91	4.26	6.121
24.26	1(e)	SLU	8	22	276.00	-45765.80	300.56	915.32	-515.76	-915.32	-289480.00	7360.53	-7498.89	277.73	4.41	6.325
24.50	1(e)	SLU	9	22	0.00	-28053.50	262.70	561.07	317.12	561.07	-289480.00	6243.47	6378.44	84.38	6.27	10.319
24.50	1(e)	SLU	9	22	0.00	-28053.50	262.70	561.07	317.12	561.07	-289480.00	6243.47	6378.44	84.38	6.27	10.319
27.26	1(e)	SLU	9	22	276.00	-26528.60	-36.44	-530.57	-195.84	-530.57	-289480.00	-6271.57	-6259.84	264.38	6.40	10.912

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	2	3.00	34.64	33.30
---	2	3.00	34.64	33.30
---	2	3.00	34.64	33.30

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy, s <daNm>	MRdz, s <daNm>	α <grad>	ε <sub>y</sub>	Sic.
3.50	1(e)	SLU	2	21	0.00	-167455.00	573.80	3349.10	-80.02	-3349.10	-367550.00	12396.20	-12227.60	282.66	1.47	2.195
3.50	1(e)	SLU	2	21	0.00	-167455.00	573.80	3349.10	-80.02	-3349.10	-353140.00	11364.90	-11205.40	281.95	1.39	2.109
6.26	1(e)	SLU	2	21	276.00	-165625.00	355.62	3312.50	-16.55	-3312.50	-353140.00	11383.60	-11235.50	281.95	1.42	2.132

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
0.00	2	SLE R	1	2	0.00	-135474.00	95.66	629.04	0.00	20.11	47.05	700.52
0.00	4	SLE Q	1	2	0.00	-112182.00	71.45	562.20	0.00	20.11	39.04	581.15
0.00	2	SLE R	1	2	0.00	-135474.00	95.66	629.04	0.00	20.11	47.05	700.52
0.00	4	SLE Q	1	2	0.00	-112182.00	71.45	562.20	0.00	20.11	39.04	581.15
3.26	2	SLE R	1	2	326.00	-133257.00	76.62	460.05	0.00	20.11	45.75	682.36
3.26	4	SLE Q	1	2	326.00	-109966.00	75.89	413.38	0.00	20.11	37.91	565.01
3.50	2	SLE R	2	21	0.00	-119711.00	-60.41	448.58	0.00	20.11	53.23	792.77
3.50	4	SLE Q	2	21	0.00	-98957.00	-64.10	401.18	0.00	20.11	44.23	657.96
3.50	2	SLE R	2	21	0.00	-119711.00	-60.41	448.58	0.00	16.09	54.62	813.49
3.50	4	SLE Q	2	21	0.00	-98957.00	-64.10	401.18	0.00	16.09	45.39	675.15
6.26	2	SLE R	2	21	276.00	-118303.00	-6.76	281.02	0.00	16.09	52.93	791.60
6.26	4	SLE Q	2	21	276.00	-97549.40	12.89	252.09	0.00	16.09	43.78	654.34
6.50	2	SLE R	3	21	0.00	-105058.00	64.51	279.57	0.00	16.09	47.62	709.62
6.50	4	SLE Q	3	21	0.00	-86780.60	24.37	249.28	0.00	16.09	39.15	584.43
6.50	2	SLE R	3	21	0.00	-105058.00	64.51	279.57	0.00	16.09	47.62	709.62
6.50	4	SLE Q	3	21	0.00	-86780.60	24.37	249.28	0.00	16.09	39.15	584.43
9.26	2	SLE R	3	21	276.00	-103650.00	-87.96	140.77	0.00	16.09	46.71	695.99
9.26	4	SLE Q	3	21	276.00	-85373.00	-42.51	131.04	0.00	16.09	38.27	571.28
9.50	2	SLE R	4	21	0.00	-90478.90	91.24	139.87	0.00	16.09	40.96	609.64
9.50	4	SLE Q	4	21	0.00	-74654.70	36.78	129.12	0.00	16.09	33.51	500.20
9.50	2	SLE R	4	21	0.00	-90478.90	91.24	139.87	0.00	16.09	40.96	609.64
9.50	4	SLE Q	4	21	0.00	-74654.70	36.78	129.12	0.00	16.09	33.51	500.20
12.26	2	SLE R	4	21	276.00	-89071.30	-115.86	62.46	0.00	16.09	40.28	598.98
12.26	4	SLE Q	4	21	276.00	-73247.10	-56.75	64.16	0.00	16.09	32.83	489.71
12.50	2	SLE R	5	21	0.00	-75987.40	161.91	71.39	0.00	16.09	34.98	517.50
12.50	4	SLE Q	5	21	0.00	-62590.80	83.92	70.99	0.00	16.09	28.42	422.39
12.50	2	SLE R	5	21	0.00	-75987.40	161.91	71.39	0.00	16.09	34.98	517.50
12.50	4	SLE Q	5	21	0.00	-62590.80	83.92	70.99	0.00	16.09	28.42	422.39
15.26	2	SLE R	5	21	276.00	-74579.80	-228.21	120.97	0.00	16.09	35.12	516.50
15.26	4	SLE Q	5	21	276.00	-61183.20	-135.70	113.47	0.00	16.09	28.41	419.77
15.50	2	SLE R	6	22	0.00	-61572.30	189.02	150.04	0.00	16.09	34.72	506.11
15.50	4	SLE Q	6	22	0.00	-50582.70	114.49	137.43	0.00	16.09	28.07	411.75
15.50	2	SLE R	6	22	0.00	-61572.30	189.02	150.04	0.00	12.06	35.78	521.93
15.50	4	SLE Q	6	22	0.00	-50582.70	114.49	137.43	0.00	12.06	28.95	424.80
18.26	2	SLE R	6	22	276.00	-60399.30	-221.79	261.81	0.00	12.06	36.07	522.90
18.26	4	SLE Q	6	22	276.00	-49409.60	-138.69	229.61	0.00	12.06	29.04	423.63
18.50	2	SLE R	7	22	0.00	-47513.20	237.78	314.53	0.00	12.06	29.66	425.07



Relazione di calcolo

18.50	4	SLE	Q	7	22	0.00	-38905.20	145.67	273.35	0.00	12.06	23.74	343.21
18.50	2	SLE	R	7	22	0.00	-47513.20	237.78	314.53	0.00	12.06	29.66	425.07
18.50	4	SLE	Q	7	22	0.00	-38905.20	145.67	273.35	0.00	12.06	23.74	343.21
21.26	2	SLE	R	7	22	276.00	-46340.20	-240.35	394.47	0.00	12.06	29.42	420.65
21.26	4	SLE	Q	7	22	276.00	-37732.20	-149.32	335.94	0.00	12.06	23.44	337.91
21.50	2	SLE	R	8	22	0.00	-33511.30	304.78	445.06	0.00	12.06	23.64	328.85
21.50	4	SLE	Q	8	22	0.00	-27271.60	194.92	377.22	0.00	12.06	18.64	262.24
21.50	2	SLE	R	8	22	0.00	-33511.30	304.78	445.06	0.00	12.06	23.64	328.85
21.50	4	SLE	Q	8	22	0.00	-27271.60	194.92	377.22	0.00	12.06	18.64	262.24
24.26	2	SLE	R	8	22	276.00	-32338.30	-349.85	218.25	0.00	12.06	22.56	311.65
24.26	4	SLE	Q	8	22	276.00	-26098.60	-230.77	182.28	0.00	12.06	17.59	245.81
24.50	2	SLE	R	9	22	0.00	-19708.20	210.55	189.78	0.00	12.06	13.97	192.91
24.50	4	SLE	Q	9	22	0.00	-15787.50	118.52	157.39	0.00	12.06	10.59	148.95
24.50	2	SLE	R	9	22	0.00	-19708.20	210.55	189.78	0.00	12.06	13.97	192.91
24.50	4	SLE	Q	9	22	0.00	-15787.50	118.52	157.39	0.00	12.06	10.59	148.95
27.26	2	SLE	R	9	22	276.00	-18535.20	-126.34	-27.77	0.00	12.06	11.56	164.27
27.26	4	SLE	Q	9	22	276.00	-14614.50	-50.83	-23.10	0.00	12.06	8.51	123.86

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<m>	<m>					<m>	<m>	<daN>	<daN>		<daN>	<daN>	<daN>	<m>	<m>	<daN>		<daN>	<daN>	<daN>	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	9.72	2.50	12369.40	24953.60	12369.40	0.40	0.63	65.51	2.50	22236.70	26388.00	22236.70	>100	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	9.72	2.50	12369.40	25158.20	12369.40	0.40	0.63	65.51	2.50	22236.70	26604.40	22236.70	>100	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	9.72	2.50	12369.40	25730.00	12369.40	0.40	0.63	65.51	2.50	22236.70	27209.00	22236.70	>100	
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	23.00	2.50	6634.02	9590.01	6634.02	0.30	0.63	79.05	1.90	12699.00	12699.00	12699.00	>100	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	23.00	2.50	6634.02	9736.34	6634.02	0.30	0.63	79.05	1.92	12822.00	12822.10	12822.00	>100	
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	23.00	2.50	6634.02	10037.60	6634.02	0.30	0.63	79.05	1.96	13071.70	13071.70	13071.70	>100	
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	85.70	2.50	6634.02	16221.60	6634.02	0.30	0.63	66.85	2.50	16677.60	17991.20	16677.60	77.409	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	85.70	2.50	6634.02	16367.90	6634.02	0.30	0.63	66.85	2.50	16677.60	18153.50	16677.60	77.409	
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	85.70	2.50	6634.02	16669.20	6634.02	0.30	0.63	66.85	2.50	16677.60	18487.70	16677.60	77.409	
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	115.98	2.50	6634.02	22817.30	6634.02	0.30	0.63	36.88	2.50	16677.60	25306.50	16677.60	57.199	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	115.98	2.50	6634.02	22963.60	6634.02	0.30	0.63	36.88	2.50	16677.60	25468.80	16677.60	57.199	
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	115.98	2.50	6634.02	23264.90	6634.02	0.30	0.63	36.88	2.50	16677.60	25802.90	16677.60	57.199	
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	212.50	2.50	6634.02	29371.70	6634.02	0.30	0.63	26.04	2.50	16677.60	32575.90	16677.60	31.219	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	212.50	2.50	6634.02	29518.00	6634.02	0.30	0.63	26.04	2.50	16677.60	32738.20	16677.60	31.219	
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	212.50	2.50	6634.02	29819.30	6634.02	0.30	0.63	26.04	2.50	16677.60	33072.40	16677.60	31.219	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	220.81	2.50	5312.50	24248.20	5312.50	0.25	0.63	56.85	2.50	16677.60	27986.20	16677.60	24.059	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	220.81	2.50	5312.50	24365.40	5312.50	0.25	0.63	56.85	2.50	16677.60	28121.50	16677.60	24.059	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	220.81	2.50	5312.50	24606.70	5312.50	0.25	0.63	56.85	2.50	16677.60	28399.90	16677.60	24.059	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	256.91	2.50	5312.50	25601.70	5312.50	0.25	0.63	41.50	2.50	16677.60	29548.40	16677.60	20.678	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	256.91	2.50	5312.50	25601.70	5312.50	0.25	0.63	41.50	2.50	16677.60	29548.40	16677.60	20.678	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	256.91	2.50	5312.50	25601.70	5312.50	0.25	0.63	41.50	2.50	16677.60	29548.40	16677.60	20.678	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	350.26	2.50	5312.50	25601.70	5312.50	0.25	0.63	108.96	2.50	16677.60	29548.40	16677.60	15.167	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	350.26	2.50	5312.50	25601.70	5312.50	0.25	0.63	108.96	2.50	16677.60	29548.40	16677.60	15.167	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	350.26	2.50	5312.50	25601.70	5312.50	0.25	0.63	108.96	2.50	16677.60	29548.40	16677.60	15.167	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	185.85	2.50	5312.50	23981.30	5312.50	0.25	0.63	108.38	2.50	16677.60	27678.10	16677.60	28.584	
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	185.85	2.50	5312.50	23934.40	5312.50	0.25	0.63	108.38	2.50	16677.60	27624.00	16677.60	28.584	
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	185.85	2.50	5312.50	23837.90	5312.50	0.25	0.63	108.38	2.50	16677.60	27512.70	16677.60	28.584	

Pilastrata n. 27

Nodi: 27 327 527 727 927 1127 1327 1527 1727 1927

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
2	R	40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
21	R	30.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
22	R	25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	Sez.	X <cm>	N <daNm>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	2	0.00	-188877.00	1812.10	3777.55	742.64	3777.55	-466051.00	20677.90	21395.70	68.91	1.98	2.467
0.00	1(e)	SLU	1	2	0.00	-188877.00	1812.10	3777.55	742.64	3777.55	-466051.00	20677.90	21395.70	68.91	1.98	2.467
3.26	1(e)	SLU	1	2	326.00	-185996.00	180.14	3719.91	-1047.43	-3719.91	-466051.00	20686.10	-21411.00	291.09	2.02	2.506
6.50	1(e)	SLU	3	21	0.00	-145865.00	679.54	2917.30	459.67	2917.30	-353140.00	12924.40	12639.90	78.05	1.76	2.421
6.50	1(e)	SLU	3	21	0.00	-145865.00	679.54	2917.30	459.67	2917.30	-353140.00	12924.40	12639.90	78.05	1.76	2.421
9.26	1(e)	SLU	3	21	276.00	-144035.00	-422.29	-2880.70	-389.25	-2880.70	-353140.00	-12927.80	-12647.10	258.05	1.79	2.452
9.50	1(e)	SLU	4	21	0.00	-125359.00	576.87	2507.18	221.23	2507.18	-353140.00	12962.00	12599.90	78.05	2.18	2.817
9.50	1(e)	SLU	4	21	0.00	-125359.00	576.87	2507.18	221.23	2507.18	-353140.00	12962.00	12599.90	78.05	2.18	2.817
12.26	1(e)	SLU	4	21	276.00	-123529.00	-520.03	-2470.58	-172.12	-2470.58	-353140.00	-12964.90	-12587.90	258.05	2.22	2.859
12.50	1(e)	SLU	5	21	0.00	-105103.00	519.10	2102.06	41.21	2102.06	-353140.00	12253.50	12564.20	78.75	2.64	3.360
12.50	1(e)	SLU	5	21	0.00	-105103.00	519.10	2102.06	41.21	2102.06	-353140.00	12253.50	12564.20	78.75	2.64	3.360
15.26	1(e)	SLU	5	21	276.00	-103273.00	-585.48	-2065.47	-38.12	-2065.47	-353140.00	-12254.50	-12532.20	258.75	2.68	3.419
15.50	1(e)	SLU	6	22	0.00	-85116.80	461.87	1702.33	-83.54	-1702.33	-303890.00	9471.66	-9155.23	277.73	2.57	3.570
15.50	1(e)	SLU	6	22	0.00	-85116.80	461.87	1702.33	-83.54	-1702.33	-289480.00	8781.91	-8767.65	279.14	2.57	3.401
18.26	1(e)	SLU	6	22	276.00	-83591.90	-610.27	-1671.84	125.83	1671.84	-289480.00	-8768.33	8743.53	99.14	2.61	3.463
18.50	1(e)	SLU	7	22	0.00	-65662.50	372.80	1313.25	-257.25	-1313.25	-289480.00	8242.09	-8284.69	278.79	3.30	4.409
18.50	1(e)	SLU	7	22	0.00	-65662.50	372.80	1313.25	-257.25	-1313.25	-289480.00	8242.09	-8284.69	278.79	3.30	4.409
21.26	1(e)	SLU	7	22	276.00	-64137.20	-692.04	-1282.75	269.99	1282.75	-289480.00	-8219.30	8227.66	98.79	3.37	4.513
21.50	1(e)	SLU	8	22	0.00	-46397.20	107.36	927.95	-384.99	-927.95	-289480.00	7342.88	-7539.68	277.73	4.37	6.239
21.50	1(e)	SLU	8	22	0.00	-46397.20	107.36	927.95	-384.99	-927.95	-289480.00	7342.88	-7539.68	277.73	4.37	6.239
24.26	1(e)	SLU	8	22	276.00	-44872.30	-683.11	-897.45	414.46	897.45	-289480.00	-7385.12	7441.17	97.73	4.46	6.451
24.50	1(e)	SLU	9	22	0.00	-27196.50	-132.23	-543.93	-411.77	-543.93	-289480.00	-6259.41	-6311.72	264.38	6.34	10.644
24.50	1(e)	SLU	9	22	0.00	-27196.50	-132.23	-543.93	-411.77	-543.93	-289480.00	-6259.41	-6311.72	264.38	6.34	10.644
27.26	1(e)	SLU	9	22	276.00	-25671.60	-377.22	-513.43	254.46	513.43	-289480.00	-6286.85	6193.48	95.62	6.47	11.276



# Relazione di calcolo

---	2	3.00	34.64	33.38
---	2	3.00	34.64	33.38
---	2	3.00	34.64	33.38

## Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	α <grad>	ε <sub>y</sub>	Sic.
3.501	(e)	SLU	2	21	0.00	-166670.00	923.11	3333.40	654.75	3333.40	-367550.00	12390.30	12266.60	77.34	1.48	2.205
3.501	(e)	SLU	2	21	0.00	-166670.00	923.11	3333.40	654.75	3333.40	-353140.00	11373.20	11218.40	78.05	1.40	2.119
6.261	(e)	SLU	2	21	276.00	-164840.00	-237.76	-3296.80	-596.12	-3296.80	-353140.00	-11391.90	-11248.50	258.05	1.43	2.142

## Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.002	SLE	R	1	2	0.00	-135023.00	531.68	1367.34	0.00	20.11	51.05	748.87
0.004	SLE	Q	1	2	0.00	-111406.00	431.85	1196.86	0.00	20.11	42.28	619.99
0.002	SLE	R	1	2	0.00	-135023.00	531.68	1367.34	0.00	20.11	51.05	748.87
0.004	SLE	Q	1	2	0.00	-111406.00	431.85	1196.86	0.00	20.11	42.28	619.99
3.262	SLE	R	1	2	326.00	-132807.00	-747.60	161.73	0.00	20.11	47.97	706.07
3.264	SLE	Q	1	2	326.00	-109190.00	-604.97	169.40	0.00	20.11	39.50	581.30
3.502	SLE	R	2	21	0.00	-119051.00	469.02	693.96	0.00	20.11	57.26	835.21
3.504	SLE	Q	2	21	0.00	-98035.10	379.96	588.14	0.00	20.11	47.16	688.00
3.502	SLE	R	2	21	0.00	-119051.00	469.02	693.96	0.00	16.09	58.78	857.27
3.504	SLE	Q	2	21	0.00	-98035.10	379.96	588.14	0.00	16.09	48.41	706.15
6.262	SLE	R	2	21	276.00	-117644.00	-427.50	-147.95	0.00	16.09	55.83	818.80
6.264	SLE	Q	2	21	276.00	-96627.50	-347.21	-100.06	0.00	16.09	45.74	671.17
6.502	SLE	R	3	21	0.00	-104140.00	331.37	512.81	0.00	16.09	50.39	738.42
6.504	SLE	Q	3	21	0.00	-85680.70	268.14	432.83	0.00	16.09	41.46	607.64
6.502	SLE	R	3	21	0.00	-104140.00	331.37	512.81	0.00	16.09	50.39	738.42
6.504	SLE	Q	3	21	0.00	-85680.70	268.14	432.83	0.00	16.09	41.46	607.64
9.262	SLE	R	3	21	276.00	-102732.00	-281.27	-285.64	0.00	16.09	48.51	714.06
9.264	SLE	Q	3	21	276.00	-84273.00	-228.51	-220.42	0.00	16.09	39.73	584.91
9.502	SLE	R	4	21	0.00	-89439.40	162.47	435.23	0.00	16.09	42.19	622.99
9.504	SLE	Q	4	21	0.00	-73493.80	130.19	366.05	0.00	16.09	34.67	512.01
9.502	SLE	R	4	21	0.00	-89439.40	162.47	435.23	0.00	16.09	42.19	622.99
9.504	SLE	Q	4	21	0.00	-73493.80	130.19	366.05	0.00	16.09	34.67	512.01
12.262	SLE	R	4	21	276.00	-88031.80	-127.52	-359.80	0.00	16.09	41.00	607.07
12.264	SLE	Q	4	21	276.00	-72086.20	-102.93	-285.29	0.00	16.09	33.53	496.54
12.502	SLE	R	5	21	0.00	-74915.30	35.50	390.81	0.00	16.09	34.56	514.02
12.504	SLE	Q	5	21	0.00	-61446.60	26.63	328.13	0.00	16.09	28.35	421.74
12.502	SLE	R	5	21	0.00	-74915.30	35.50	390.81	0.00	16.09	34.56	514.02
12.504	SLE	Q	5	21	0.00	-61446.60	26.63	328.13	0.00	16.09	28.35	421.74
15.262	SLE	R	5	21	276.00	-73507.70	-33.65	-410.25	0.00	16.09	34.00	505.50
15.264	SLE	Q	5	21	276.00	-60039.00	-26.06	-328.81	0.00	16.09	27.73	412.46
15.502	SLE	R	6	22	0.00	-60582.30	-54.30	345.78	0.00	16.09	33.34	493.25
15.504	SLE	Q	6	22	0.00	-49554.40	-45.48	287.58	0.00	16.09	27.30	403.84
15.502	SLE	R	6	22	0.00	-60582.30	-54.30	345.78	0.00	12.06	34.44	509.54
15.504	SLE	Q	6	22	0.00	-49554.40	-45.48	287.58	0.00	12.06	28.21	417.19
18.262	SLE	R	6	22	276.00	-59409.30	83.85	-432.55	0.00	12.06	34.58	508.68
18.264	SLE	Q	6	22	276.00	-48381.40	68.44	-352.23	0.00	12.06	28.16	414.27
18.502	SLE	R	7	22	0.00	-46646.60	-176.21	276.52	0.00	12.06	28.25	408.72
18.504	SLE	Q	7	22	0.00	-38033.10	-143.09	224.17	0.00	12.06	23.02	333.11
18.502	SLE	R	7	22	0.00	-46646.60	-176.21	276.52	0.00	12.06	28.25	408.72
18.504	SLE	Q	7	22	0.00	-38033.10	-143.09	224.17	0.00	12.06	23.02	333.11
21.262	SLE	R	7	22	276.00	-45473.60	185.44	-495.33	0.00	12.06	28.72	413.13
21.264	SLE	Q	7	22	276.00	-36860.10	150.29	-405.44	0.00	12.06	23.30	335.10
21.502	SLE	R	8	22	0.00	-32843.10	-265.87	79.76	0.00	12.06	21.16	297.78
21.504	SLE	Q	8	22	0.00	-26615.00	-215.04	58.09	0.00	12.06	17.11	240.88
21.502	SLE	R	8	22	0.00	-32843.10	-265.87	79.76	0.00	12.06	21.16	297.78
21.504	SLE	Q	8	22	0.00	-26615.00	-215.04	58.09	0.00	12.06	17.11	240.88
24.262	SLE	R	8	22	276.00	-31670.10	285.83	-490.46	0.00	12.06	22.62	314.57
24.264	SLE	Q	8	22	276.00	-25442.00	229.85	-396.95	0.00	12.06	18.19	252.90
24.502	SLE	R	9	22	0.00	-19085.40	-288.91	-95.74	0.00	12.06	14.20	191.70
24.504	SLE	Q	9	22	0.00	-15234.50	-236.95	-84.33	0.00	12.06	11.45	154.22
24.502	SLE	R	9	22	0.00	-19085.40	-288.91	-95.74	0.00	12.06	14.20	191.70
24.504	SLE	Q	9	22	0.00	-15234.50	-236.95	-84.33	0.00	12.06	11.45	154.22
27.262	SLE	R	9	22	276.00	-17912.40	184.09	-276.55	0.00	12.06	13.07	180.50
27.264	SLE	Q	9	22	276.00	-14061.50	160.98	-226.64	0.00	12.06	10.51	144.19

## Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <cm>	d <sub>y</sub> <cm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <cm>	d <sub>z</sub> <cm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	549.10	2.50	12369.40	25119.40	12369.40	12369.40	0.40	0.63	500.60	2.50	22236.70	26563.30	22236.70	22.527
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	549.10	2.50	12369.40	25324.00	12369.40	12369.40	0.40	0.63	500.60	2.50	22236.70	26779.70	22236.70	22.527
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	549.10	2.50	12369.40	25895.70	12369.40	12369.40	0.40	0.63	500.60	2.50	22236.70	27384.30	22236.70	22.527
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	453.21	2.50	6634.02	9844.78	6634.02	6634.02	0.30	0.63	420.60	1.94	12912.50	12912.50	12912.50	14.638
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	453.21	2.50	6634.02	9991.11	6634.02	6634.02	0.30	0.63	420.60	1.95	13033.50	13033.50	13033.50	14.638
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	453.21	2.50	6634.02	10292.40	6634.02	6634.02	0.30	0.63	420.60	1.99	13279.10	13279.10	13279.10	14.638
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	307.58	2.50	6634.02	16597.40	6634.02	6634.02	0.30	0.63	399.21	2.50	16677.60	18408.10	16677.60	21.568
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	307.58	2.50	6634.02	16743.80	6634.02	6634.02	0.30	0.63	399.21	2.50	16677.60	18570.40	16677.60	21.568
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	307.58	2.50	6634.02	17045.00	6634.02	6634.02	0.30	0.63	399.21	2.50	16677.60	18904.50	16677.60	21.568



Relazione di calcolo

9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	142.52	2.50	6634.02	23253.00	6634.02	0.30	0.63	397.43	2.50	16677.60	25789.80	16677.60	41.964
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	142.52	2.50	6634.02	23399.30	6634.02	0.30	0.63	397.43	2.50	16677.60	25952.00	16677.60	41.964
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	142.52	2.50	6634.02	23700.60	6634.02	0.30	0.63	397.43	2.50	16677.60	26286.20	16677.60	41.964
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	28.74	2.50	6634.02	29827.40	6634.02	0.30	0.63	400.21	2.50	16677.60	33081.40	16677.60	41.672
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	28.74	2.50	6634.02	29973.70	6634.02	0.30	0.63	400.21	2.50	16677.60	33243.70	16677.60	41.672
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	28.74	2.50	6634.02	30275.00	6634.02	0.30	0.63	400.21	2.50	16677.60	33577.80	16677.60	41.672
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	75.86	2.50	5312.50	24655.80	5312.50	0.25	0.63	388.46	2.50	16677.60	28456.70	16677.60	42.933
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	75.86	2.50	5312.50	24773.00	5312.50	0.25	0.63	388.46	2.50	16677.60	28591.90	16677.60	42.933
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	75.86	2.50	5312.50	25014.30	5312.50	0.25	0.63	388.46	2.50	16677.60	28870.30	16677.60	42.933
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	191.03	2.50	5312.50	25601.70	5312.50	0.25	0.63	385.81	2.50	16677.60	29548.40	16677.60	27.810
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	191.03	2.50	5312.50	25601.70	5312.50	0.25	0.63	385.81	2.50	16677.60	29548.40	16677.60	27.810
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	191.03	2.50	5312.50	25601.70	5312.50	0.25	0.63	385.81	2.50	16677.60	29548.40	16677.60	27.810
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	289.65	2.50	5312.50	25601.70	5312.50	0.25	0.63	286.40	2.50	16677.60	29548.40	16677.60	18.341
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	289.65	2.50	5312.50	25601.70	5312.50	0.25	0.63	286.40	2.50	16677.60	29548.40	16677.60	18.341
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	289.65	2.50	5312.50	25601.70	5312.50	0.25	0.63	286.40	2.50	16677.60	29548.40	16677.60	18.341
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	241.39	2.50	5312.50	23874.40	5312.50	0.25	0.63	88.76	2.50	16677.60	27554.80	16677.60	22.008
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	241.39	2.50	5312.50	23827.50	5312.50	0.25	0.63	88.76	2.50	16677.60	27500.70	16677.60	22.008
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	241.39	2.50	5312.50	23731.00	5312.50	0.25	0.63	88.76	2.50	16677.60	27389.30	16677.60	22.008

Pilastrata n. 28

Nodi: 28 328 528 728 928 1128 1328 1528 1728 1928

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
2	R	40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
21	R	30.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
22	R	25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	2	0.00	-190479.00	1089.84	3809.58	-160.42	-3809.58	-466051.00	20672.90	-21386.70	291.09	1.96	2.447
0.00	1(e)	SLU	1	2	0.00	-190479.00	1089.84	3809.58	-160.42	-3809.58	-466051.00	20672.90	-21386.70	291.09	1.96	2.447
3.26	1(e)	SLU	1	2	326.00	-187597.00	495.11	3751.94	588.23	3751.94	-466051.00	20681.70	21402.60	68.91	2.00	2.484
6.50	1(e)	SLU	3	21	0.00	-147578.00	896.56	2951.56	-178.23	-2951.56	-353140.00	12907.00	-12628.00	281.95	1.73	2.393
6.50	1(e)	SLU	3	21	0.00	-147578.00	896.56	2951.56	-178.23	-2951.56	-353140.00	12907.00	-12628.00	281.95	1.73	2.393
9.26	1(e)	SLU	3	21	276.00	-145748.00	-264.47	-2914.96	89.94	2914.96	-353140.00	-12924.40	12640.30	101.95	1.76	2.423
9.50	1(e)	SLU	4	21	0.00	-127026.00	583.36	2540.51	-2.21	-2540.51	-353140.00	12959.00	-12610.30	281.95	2.14	2.780
9.50	1(e)	SLU	4	21	0.00	-127026.00	583.36	2540.51	-2.21	-2540.51	-353140.00	12959.00	-12610.30	281.95	2.14	2.780
12.26	1(e)	SLU	4	21	276.00	-125196.00	-482.14	-2503.92	-73.51	-2503.92	-353140.00	-12962.20	-12598.80	258.05	2.18	2.821
12.50	1(e)	SLU	5	21	0.00	-106653.00	466.96	2133.06	102.52	2133.06	-353140.00	12252.60	12587.80	78.75	2.60	3.311
12.50	1(e)	SLU	5	21	0.00	-106653.00	466.96	2133.06	102.52	2133.06	-353140.00	12252.60	12587.80	78.75	2.60	3.311
15.26	1(e)	SLU	5	21	276.00	-104823.00	-445.04	-2096.46	-134.74	-2096.46	-353140.00	-12253.60	-12559.40	258.75	2.64	3.369
15.50	1(e)	SLU	6	22	0.00	-86507.70	564.65	1730.15	129.26	1730.15	-303890.00	9472.19	9171.38	82.27	2.53	3.513
15.50	1(e)	SLU	6	22	0.00	-86507.70	564.65	1730.15	129.26	1730.15	-289480.00	8794.33	8789.29	80.86	2.53	3.346
18.26	1(e)	SLU	6	22	276.00	-84982.80	116.44	1699.66	-188.93	-1699.66	-289480.00	8780.72	-8765.54	279.14	2.57	3.406
18.50	1(e)	SLU	7	22	0.00	-66861.10	1228.46	1337.22	248.42	1337.22	-289480.00	8260.03	8329.21	81.21	3.25	4.330
18.50	1(e)	SLU	7	22	0.00	-66861.10	1228.46	1337.22	248.42	1337.22	-289480.00	8260.03	8329.21	81.21	3.25	4.330
21.26	1(e)	SLU	7	22	276.00	-65336.20	834.24	1306.72	-269.52	-1306.72	-289480.00	8237.21	-8272.52	278.79	3.32	4.431
21.50	1(e)	SLU	8	22	0.00	-47330.70	2061.61	2061.61	331.43	946.61	-289480.00	13272.40	6137.62	74.53	3.83	6.116
21.50	1(e)	SLU	8	22	0.00	-47330.70	2061.61	2061.61	331.43	946.61	-289480.00	13272.40	6137.62	74.53	3.83	6.116
24.26	1(e)	SLU	8	22	276.00	-45805.80	816.30	916.12	-361.25	-916.12	-289480.00	7359.42	-7501.47	277.73	4.41	6.320
24.50	1(e)	SLU	9	22	0.00	-27870.20	2009.88	2009.88	197.99	557.40	-27870.20	15405.20	4131.30	64.69	5.04	7.647
24.50	1(e)	SLU	9	22	0.00	-27870.20	2009.88	2009.88	197.99	557.40	-27870.20	15405.20	4131.30	64.69	5.04	7.647
27.26	1(e)	SLU	9	22	276.00	-26345.30	-1125.61	-1125.61	-38.75	-526.91	-26345.30	-11395.80	-5486.44	255.94	4.96	10.177

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	2	3.00	34.64	33.21
---	2	3.00	34.64	33.21
---	2	3.00	34.64	33.21

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy, s <daNm>	MRdz, s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
3.50	1(e)	SLU	2	21	0.00	-168342.00	1007.15	3366.83	-373.31	-3366.83	-367550.00	12386.70	-12210.40	282.66	1.46	2.183
3.50	1(e)	SLU	2	21	0.00	-168342.00	1007.15	3366.83	-373.31	-3366.83	-353140.00	11344.30	-11185.80	281.95	1.38	2.098
6.26	1(e)	SLU	2	21	276.00	-166512.00	177.76	3330.24	270.57	3330.24	-353140.00	11374.80	11220.90	78.05	1.41	2.121

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cm²>	σ <sub>t</sub> <daN/cm²>
0.00	2	SLE	R	1	2	0.00	-136268.00	-110.59	816.93	0.00	20.11	712.08
0.00	4	SLE	Q	1	2	0.00	-112776.00	-82.37	701.52	0.00	20.11	589.74
0.00	2	SLE	R	1	2	0.00	-136268.00	-110.59	816.93	0.00	20.11	712.08
0.00	4	SLE	Q	1	2	0.00	-112776.00	-82.37	701.52	0.00	20.11	589.74
3.26	2	SLE	R	1	2	326.00	-134051.00	416.04	394.85	0.00	20.11	702.53
3.26	4	SLE	Q	1	2	326.00	-110560.00	327.14	377.16	0.00	20.11	580.40
3.50	2	SLE	R	2	21	0.00	-120343.00	-262.39	765.03	0.00	20.11	828.89
3.50	4	SLE	Q	2	21	0.00	-99431.90	-202.68	664.84	0.00	20.11	685.15
3.50	2	SLE	R	2	21	0.00	-120343.00	-262.39	765.03	0.00	16.09	850.54
3.50	4	SLE	Q	2	21	0.00	-99431.90	-202.68	664.84	0.00	16.09	703.01
6.26	2	SLE	R	2	21	276.00	-118935.00	188.70	158.06	0.00	16.09	806.34
6.26	4	SLE	Q	2	21	276.00	-98024.30	140.02	167.35	0.00	16.09	664.91
6.50	2	SLE	R	3	21	0.00	-105454.00	-121.41	678.63	0.00	16.09	735.97
6.50	4	SLE	Q	3	21	0.00	-87077.70	-83.11	581.89	0.00	16.09	607.18



Relazione di calcolo

6.50	2	SLE R	3	21	0.00	-105454.00	-121.41	678.63	0.00	16.09	49.73	735.97
6.50	4	SLE Q	3	21	0.00	-87077.70	-83.11	581.89	0.00	16.09	41.00	607.18
9.26	2	SLE R	3	21	276.00	-104047.00	58.56	-171.50	0.00	16.09	46.74	697.39
9.26	4	SLE Q	3	21	276.00	-85670.10	30.96	-121.96	0.00	16.09	38.26	571.77
9.50	2	SLE R	4	21	0.00	-90712.20	4.81	443.30	0.00	16.09	41.41	617.58
9.50	4	SLE Q	4	21	0.00	-74829.90	20.48	375.61	0.00	16.09	34.34	511.40
9.50	2	SLE R	4	21	0.00	-90712.20	4.81	443.30	0.00	16.09	41.41	617.58
9.50	4	SLE Q	4	21	0.00	-74829.90	20.48	375.61	0.00	16.09	34.34	511.40
12.26	2	SLE R	4	21	276.00	-89304.60	-58.60	-334.07	0.00	16.09	40.86	608.06
12.26	4	SLE Q	4	21	276.00	-73422.30	-65.10	-263.49	0.00	16.09	33.70	500.91
12.50	2	SLE R	5	21	0.00	-76094.50	80.06	355.06	0.00	16.09	35.34	524.10
12.50	4	SLE Q	5	21	0.00	-62671.10	82.57	299.85	0.00	16.09	29.27	433.49
12.50	2	SLE R	5	21	0.00	-76094.50	80.06	355.06	0.00	16.09	35.34	524.10
12.50	4	SLE Q	5	21	0.00	-62671.10	82.57	299.85	0.00	16.09	29.27	433.49
15.26	2	SLE R	5	21	276.00	-74686.90	-103.00	-308.18	0.00	16.09	34.75	514.72
15.26	4	SLE Q	5	21	276.00	-61263.40	-102.17	-238.63	0.00	16.09	28.61	423.13
15.50	2	SLE R	6	22	0.00	-61635.80	97.13	425.56	0.00	16.09	34.76	510.75
15.50	4	SLE Q	6	22	0.00	-50632.90	91.48	364.93	0.00	16.09	28.76	421.78
15.50	2	SLE R	6	22	0.00	-61635.80	97.13	425.56	0.00	12.06	35.90	527.60
15.50	4	SLE Q	6	22	0.00	-50632.90	91.48	364.93	0.00	12.06	29.70	435.67
18.26	2	SLE R	6	22	276.00	-60462.80	-139.84	102.06	0.00	12.06	34.36	504.52
18.26	4	SLE Q	6	22	276.00	-49459.90	-127.45	109.15	0.00	12.06	28.38	415.73
18.50	2	SLE R	7	22	0.00	-47548.70	183.08	910.27	0.00	12.06	31.66	453.44
18.50	4	SLE Q	7	22	0.00	-38937.40	164.32	774.93	0.00	12.06	26.24	374.72
18.50	2	SLE R	7	22	0.00	-47548.70	183.08	910.27	0.00	12.06	31.66	453.44
18.50	4	SLE Q	7	22	0.00	-38937.40	164.32	774.93	0.00	12.06	26.24	374.72
21.26	2	SLE R	7	22	276.00	-46375.70	-197.81	626.15	0.00	12.06	29.95	429.35
21.26	4	SLE Q	7	22	276.00	-37764.40	-176.06	539.51	0.00	12.06	24.71	353.11
21.50	2	SLE R	8	22	0.00	-33541.20	240.90	1519.05	0.00	12.06	27.66	383.80
21.50	4	SLE Q	8	22	0.00	-27298.90	209.51	1276.10	0.00	12.06	22.86	316.25
21.50	2	SLE R	8	22	0.00	-33541.20	240.90	1519.05	0.00	12.06	27.66	383.80
21.50	4	SLE Q	8	22	0.00	-27298.90	209.51	1276.10	0.00	12.06	22.86	316.25
24.26	2	SLE R	8	22	276.00	-32368.20	-260.45	604.13	0.00	12.06	23.19	323.74
24.26	4	SLE Q	8	22	276.00	-26125.90	-223.01	495.51	0.00	12.06	18.91	263.26
24.50	2	SLE R	9	22	0.00	-19580.10	154.19	1471.82	0.00	12.06	18.94	259.53
24.50	4	SLE Q	9	22	0.00	-15691.70	152.79	1209.19	0.00	12.06	15.68	213.15
24.50	2	SLE R	9	22	0.00	-19580.10	154.19	1471.82	0.00	12.06	18.94	259.53
24.50	4	SLE Q	9	22	0.00	-15691.70	152.79	1209.19	0.00	12.06	15.68	213.15
27.26	2	SLE R	9	22	276.00	-18407.10	-48.94	-822.83	0.00	12.06	14.09	200.21
27.26	4	SLE Q	9	22	276.00	-14518.70	-79.51	-681.14	0.00	12.06	11.77	164.59

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <cm>	d <sub>y</sub> <cm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <cm>	d <sub>z</sub> <cm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	229.65	2.50	12369.40	24574.10	12369.40	12369.40	0.40	0.63	182.43	2.50	22236.70	25986.70	22236.70	53.862
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	229.65	2.50	12369.40	24778.80	12369.40	12369.40	0.40	0.63	182.43	2.50	22236.70	26203.10	22236.70	53.862
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	229.65	2.50	12369.40	25350.50	12369.40	12369.40	0.40	0.63	182.43	2.50	22236.70	26807.70	22236.70	53.862
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	233.29	2.50	6634.02	9302.14	6634.02	6634.02	0.30	0.63	300.50	1.87	12453.50	12453.50	12453.50	28.437
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	233.29	2.50	6634.02	9448.47	6634.02	6634.02	0.30	0.63	300.50	1.89	12578.90	12578.90	12578.90	28.437
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	233.29	2.50	6634.02	9749.74	6634.02	6634.02	0.30	0.63	300.50	1.92	12833.30	12833.30	12833.30	28.437
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	97.16	2.50	6634.02	16041.40	6634.02	6634.02	0.30	0.63	420.66	2.50	16677.60	17791.40	16677.60	39.646
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	97.16	2.50	6634.02	16187.80	6634.02	6634.02	0.30	0.63	420.66	2.50	16677.60	17953.70	16677.60	39.646
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	97.16	2.50	6634.02	16489.00	6634.02	6634.02	0.30	0.63	420.66	2.50	16677.60	18287.90	16677.60	39.646
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	25.83	2.50	6634.02	22712.10	6634.02	6634.02	0.30	0.63	386.05	2.50	16677.60	25189.80	16677.60	43.200
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	25.83	2.50	6634.02	22858.40	6634.02	6634.02	0.30	0.63	386.05	2.50	16677.60	25352.10	16677.60	43.200
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	25.83	2.50	6634.02	23159.60	6634.02	6634.02	0.30	0.63	386.05	2.50	16677.60	25686.20	16677.60	43.200
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	85.96	2.50	6634.02	29324.30	6634.02	6634.02	0.30	0.63	330.44	2.50	16677.60	32523.40	16677.60	50.471
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	85.96	2.50	6634.02	29470.70	6634.02	6634.02	0.30	0.63	330.44	2.50	16677.60	32685.70	16677.60	50.471
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	85.96	2.50	6634.02	29771.90	6634.02	6634.02	0.30	0.63	330.44	2.50	16677.60	33019.80	16677.60	50.471
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	115.29	2.50	5312.50	24222.00	5312.50	5312.50	0.25	0.63	162.40	2.50	16677.60	27956.00	16677.60	46.081
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	115.29	2.50	5312.50	24339.20	5312.50	5312.50	0.25	0.63	162.40	2.50	16677.60	28091.20	16677.60	46.081
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	115.29	2.50	5312.50	24580.40	5312.50	5312.50	0.25	0.63	162.40	2.50	16677.60	28369.70	16677.60	46.081
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	187.66	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	142.83	2.50	16677.60	29548.40	16677.60	28.309
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	187.66	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	142.83	2.50	16677.60	29548.40	16677.60	28.309
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	187.66	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	142.83	2.50	16677.60	29548.40	16677.60	28.309
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	250.97	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	451.20	2.50	16677.60	29548.40	16677.60	21.168
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	250.97	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	451.20	2.50	16677.60	29548.40	16677.60	21.168
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	250.97	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	451.20	2.50	16677.60	29548.40	16677.60	21.168
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	85.78	2.50	5312.50	23958.40	5312.50	5312.50	0.25	0.63	1136.05	2.50	16677.60	27651.80	16677.60	14.680
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	85.78	2.50	5312.50	23911.60	5312.50	5312.50	0.25	0.63	1136.05	2.50	16677.60	27597.70	16677.60	14.680
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	85.78	2.50	5312.50	23815.10	5312.50	5312.50	0.25	0.63	1136.05	2.50	16677.60	27486.30	16677.60	14.680

Pilastrata n. 29

Nodi: 29 329 529 729 929 1129 1329 1529 1729 1929

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
	2R	40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
	21R	30.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
	22R	25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115



Relazione di calcolo

0.00	1(e)	SLU	1	2	0.00	-204534.00	92.08	4090.67	246.14	4090.67	-466051.00	20626.30	21259.50	68.91	1.77	2.279
0.00	1(e)	SLU	1	2	0.00	-204534.00	92.08	4090.67	246.14	4090.67	-466051.00	20626.30	21259.50	68.91	1.77	2.279
3.26	1(e)	SLU	1	2	326.00	-201652.00	1041.73	4033.03	-152.93	-4033.03	-466051.00	20636.30	-21293.00	291.09	1.81	2.311
9.50	1(e)	SLU	4	21	0.00	-137373.00	243.89	2747.45	3.37	2747.45	-353140.00	12940.80	12647.10	78.05	1.93	2.571
9.50	1(e)	SLU	4	21	0.00	-137373.00	243.89	2747.45	3.37	2747.45	-353140.00	12940.80	12647.10	78.05	1.93	2.571
12.26	1(e)	SLU	4	21	276.00	-135543.00	-57.04	-2710.85	-24.07	-2710.85	-353140.00	-12944.10	-12644.70	258.05	1.96	2.605
12.50	1(e)	SLU	5	21	0.00	-115415.00	156.49	2308.31	-75.43	-2308.31	-353140.00	12630.20	-12610.70	281.60	2.40	3.060
12.50	1(e)	SLU	5	21	0.00	-115415.00	156.49	2308.31	-75.43	-2308.31	-353140.00	12630.20	-12610.70	281.60	2.40	3.060
15.26	1(e)	SLU	5	21	276.00	-113585.00	68.98	2271.71	102.24	2271.71	-353140.00	12632.30	12585.40	78.40	2.44	3.109
18.50	1(e)	SLU	7	22	0.00	-71787.60	1850.24	1850.24	-178.42	-1435.75	-289480.00	10295.20	-8020.16	280.90	2.97	4.032
18.50	1(e)	SLU	7	22	0.00	-71787.60	1850.24	1850.24	-178.42	-1435.75	-289480.00	10295.20	-8020.16	280.90	2.97	4.032
21.26	1(e)	SLU	7	22	276.00	-70262.80	1675.37	1675.37	167.38	1405.26	-289480.00	9637.89	8126.19	79.80	3.05	4.120
21.50	1(e)	SLU	8	22	0.00	-50188.00	3758.44	3758.44	-180.98	1003.76	-50188.00	18128.70	4686.64	64.69	3.76	4.813
21.50	1(e)	SLU	8	22	0.00	-50188.00	3758.44	3758.44	-180.98	1003.76	-50188.00	18128.70	4686.64	64.69	3.76	4.813
24.26	1(e)	SLU	8	22	276.00	-48663.10	1701.67	1701.67	167.61	973.26	-289480.00	11368.80	6735.54	77.34	3.84	5.949
24.50	1(e)	SLU	9	22	0.00	-28589.80	5925.18	5925.18	-256.20	-571.80	-28589.80	19491.40	-1540.51	326.25	6.96	3.285
24.50	1(e)	SLU	9	22	0.00	-28589.80	5925.18	5925.18	-256.20	-571.80	-28589.80	19491.40	-1540.51	326.25	6.96	3.285
27.26	1(e)	SLU	9	22	276.00	-27064.90	-4658.67	-4658.67	307.21	541.30	-27064.90	-18067.20	2402.21	135.00	6.28	3.886

Dati per verifiche di stabilità

Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*	Xg	El	l <sub>0</sub>	λ	λ*
<m>		<m>			<m>		<m>			<m>		<m>			<m>		<m>		
---	2	3.00	34.64	32.00	---	2	3.00	34.64	32.00	---	2	3.00	34.64	32.00	---	3	3.00	34.64	34.14
---	3	3.00	34.64	34.14	---	3	3.00	34.64	34.14	---	6	3.00	41.57	40.75	---	6	3.00	41.57	40.75
---	6	3.00	41.57	40.75															

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy,s	MRdz,s	α	e <sub>r</sub>	Sic.
<m>					<m>	<daN>	<daNm>		<daNm>		<daN>	<daNm>	<daNm>	<grad>		
3.50	1(e)	SLU	2	21	0.00	-181305.00	834.33	3626.10	73.14	3626.10	-367550.00	12108.50	11858.50	77.34	1.27	2.027
3.50	1(e)	SLU	2	21	0.00	-181305.00	834.33	3626.10	73.14	3626.10	-353140.00	10957.70	10894.20	78.05	1.18	1.948
6.26	1(e)	SLU	2	21	276.00	-179475.00	713.83	3589.51	-79.69	-3589.51	-353140.00	11025.10	-10952.90	281.95	1.20	1.968
6.50	1(e)	SLU	3	21	0.00	-159337.00	953.92	3186.74	22.43	3186.74	-353140.00	11470.50	11311.60	78.05	1.53	2.216
6.50	1(e)	SLU	3	21	0.00	-159337.00	953.92	3186.74	22.43	3186.74	-353140.00	11470.50	11311.60	78.05	1.53	2.216
9.26	1(e)	SLU	3	21	276.00	-157507.00	-18.31	-3150.14	-36.12	-3150.14	-353140.00	-11487.70	-11332.70	258.05	1.56	2.242
15.50	1(e)	SLU	6	22	0.00	-93426.10	283.48	1868.52	-131.44	-1868.52	-303890.00	8222.48	-8069.05	277.73	2.35	3.253
15.50	1(e)	SLU	6	22	0.00	-93426.10	283.48	1868.52	-131.44	-1868.52	-289480.00	8132.51	-7527.21	279.14	2.32	3.099
18.26	1(e)	SLU	6	22	276.00	-91901.10	1074.54	1838.02	131.75	1838.02	-289480.00	8145.01	7506.22	80.86	2.36	3.150

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ <sub>c</sub>	σ <sub>f</sub>
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	2	0.00	-146911.00	178.96	91.23	0.00	20.11	49.73	742.41
0.00	4	SLE Q	1	2	0.00	-123440.00	150.52	84.59	0.00	20.11	41.81	624.09
0.00	2	SLE R	1	2	0.00	-146911.00	178.96	91.23	0.00	20.11	49.73	742.41
0.00	4	SLE Q	1	2	0.00	-123440.00	150.52	84.59	0.00	20.11	41.81	624.09
3.26	2	SLE R	1	2	326.00	-144695.00	-111.57	794.87	0.00	20.11	50.64	753.16
3.26	4	SLE Q	1	2	326.00	-121223.00	-96.51	724.41	0.00	20.11	42.61	633.22
3.50	2	SLE R	2	21	0.00	-130103.00	54.38	640.98	0.00	20.11	58.31	867.69
3.50	4	SLE Q	2	21	0.00	-109090.00	47.68	549.93	0.00	20.11	48.95	728.30
3.50	2	SLE R	2	21	0.00	-130103.00	54.38	640.98	0.00	16.09	59.82	890.27
3.50	4	SLE Q	2	21	0.00	-109090.00	47.68	549.93	0.00	16.09	50.22	747.25
6.26	2	SLE R	2	21	276.00	-128696.00	-58.97	542.88	0.00	16.09	58.89	876.85
6.26	4	SLE Q	2	21	276.00	-107682.00	-52.03	499.19	0.00	16.09	49.46	736.02
6.50	2	SLE R	3	21	0.00	-114266.00	18.68	733.00	0.00	16.09	52.90	787.22
6.50	4	SLE Q	3	21	0.00	-95699.60	17.83	631.15	0.00	16.09	44.38	660.31
6.50	2	SLE R	3	21	0.00	-114266.00	18.68	733.00	0.00	16.09	52.90	787.22
6.50	4	SLE Q	3	21	0.00	-95699.60	17.83	631.15	0.00	16.09	44.38	660.31
9.26	2	SLE R	3	21	276.00	-112858.00	-28.26	-6.03	0.00	16.09	49.74	744.89
9.26	4	SLE Q	3	21	276.00	-94292.00	-26.42	19.96	0.00	16.09	41.64	623.30
9.50	2	SLE R	4	21	0.00	-98437.80	5.32	212.06	0.00	16.09	43.96	657.63
9.50	4	SLE Q	4	21	0.00	-82326.90	5.73	186.25	0.00	16.09	36.81	550.53
9.50	2	SLE R	4	21	0.00	-98437.80	5.32	212.06	0.00	16.09	43.96	657.63
9.50	4	SLE Q	4	21	0.00	-82326.90	5.73	186.25	0.00	16.09	36.81	550.53
12.26	2	SLE R	4	21	276.00	-97030.20	-19.88	-42.25	0.00	16.09	42.86	641.76
12.26	4	SLE Q	4	21	276.00	-80919.30	-18.21	-17.40	0.00	16.09	35.69	534.51
12.50	2	SLE R	5	21	0.00	-82620.80	-50.44	149.93	0.00	16.09	37.20	554.78
12.50	4	SLE Q	5	21	0.00	-68971.30	-40.18	135.27	0.00	16.09	31.07	463.43
12.50	2	SLE R	5	21	0.00	-82620.80	-50.44	149.93	0.00	16.09	37.20	554.78
12.50	4	SLE Q	5	21	0.00	-68971.30	-40.18	135.27	0.00	16.09	31.07	463.43
15.26	2	SLE R	5	21	276.00	-81213.20	69.42	44.33	0.00	16.09	36.36	542.29
15.26	4	SLE Q	5	21	276.00	-67563.70	54.19	57.29	0.00	16.09	30.30	451.79
15.50	2	SLE R	6	22	0.00	-66784.10	-91.13	245.21	0.00	16.09	36.58	540.04
15.50	4	SLE Q	6	22	0.00	-55601.30	-72.81	226.08	0.00	16.09	30.50	450.44
15.50	2	SLE R	6	22	0.00	-66784.10	-91.13	245.21	0.00	12.06	37.75	557.50
15.50	4	SLE Q	6	22	0.00	-55601.30	-72.81	226.08	0.00	12.06	31.49	465.06
18.26	2	SLE R	6	22	276.00	-65611.10	91.39	777.79	0.00	12.06	39.52	579.03
18.26	4	SLE Q	6	22	276.00	-54428.30	72.62	675.59	0.00	12.06	32.88	481.72
18.50	2	SLE R	7	22	0.00	-51219.90	-124.09	1399.45	0.00	12.06	35.06	504.12
18.50	4	SLE Q	7	22	0.00	-42503.10	-99.20	1213.90	0.00	12.06	29.28	420.93
18.50	2	SLE R	7	22	0.00	-51219.90	-124.09	1399.45	0.00	12.06	35.06	504.12
18.50	4	SLE Q	7	22	0.00	-42503.10	-99.20	1213.90	0.00	12.06	29.28	420.93
21.26	2	SLE R	7	22	276.00	-50046.90	116.39	1211.26	0.00	12.06	33.50	482.96



Relazione di calcolo

21.26	4	SLE Q	7	22	276.00	-41330.10	92.84	1021.95	0.00	12.06	27.72	399.71
21.50	2	SLE R	8	22	0.00	-35687.20	-125.45	2800.02	0.00	12.06	33.10	461.55
21.50	4	SLE Q	8	22	0.00	-29436.60	-100.25	2389.00	0.00	12.06	27.62	384.93
21.50	2	SLE R	8	22	0.00	-35687.20	-125.45	2800.02	0.00	12.06	33.10	461.55
21.50	4	SLE Q	8	22	0.00	-29436.60	-100.25	2389.00	0.00	12.06	27.62	384.93
24.26	2	SLE R	8	22	276.00	-34514.20	116.14	1219.31	0.00	12.06	25.27	359.53
24.26	4	SLE Q	8	22	276.00	-28263.60	92.78	972.58	0.00	12.06	20.55	292.64
24.50	2	SLE R	9	22	0.00	-20160.60	-176.80	4382.59	4.02	8.04	37.01	483.12
24.50	4	SLE Q	9	22	0.00	-16384.20	-138.86	3653.71	4.02	8.04	30.75	400.85
24.50	2	SLE R	9	22	0.00	-20160.60	-176.80	4382.59	4.02	8.04	37.01	483.12
24.50	4	SLE Q	9	22	0.00	-16384.20	-138.86	3653.71	4.02	8.04	30.75	400.85
27.26	2	SLE R	9	22	276.00	-18987.60	212.19	-3470.18	4.02	8.04	30.51	400.93
27.26	4	SLE Q	9	22	276.00	-15211.20	166.29	-2919.26	4.02	8.04	25.43	333.21

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	C <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.50	4	SLE Q	9	22	0.00	-16384.20	3653.71	-138.86	39.00	156.00	0.50	16.00	189.34	2.01	139.91	219.40	0.06	0.02
24.50	3	SLE F	9	22	0.00	-17344.50	3861.99	-149.34	39.00	156.00	0.50	16.00	188.06	2.01	138.31	231.54	0.07	0.02
24.50	4	SLE Q	9	22	0.00	-16384.20	3653.71	-138.86	39.00	156.00	0.50	16.00	189.34	2.01	139.91	219.40	0.06	0.02
24.50	3	SLE F	9	22	0.00	-17344.50	3861.99	-149.34	39.00	156.00	0.50	16.00	188.06	2.01	138.31	231.54	0.07	0.02
27.26	4	SLE Q	9	22	276.00	-15211.20	-2919.26	166.29	39.00	156.00	0.50	16.00	135.34	2.01	72.06	124.83	0.04	0.01
27.26	3	SLE F	9	22	276.00	-16171.50	-3077.12	178.73	39.00	156.00	0.50	16.00	133.26	2.01	69.44	128.91	0.04	0.01

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	b <sub>w,y</sub>	d <sub>r,y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	b <sub>w,z</sub>	d <sub>r,z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<mm>	<mm>						<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	122.41	2.50	12369.40	19789.80	12369.40	0.40	0.63	291.30	2.41	21463.90	21463.90	21463.90	73.683	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	122.41	2.50	12369.40	19994.50	12369.40	0.40	0.63	291.30	2.43	21593.50	21593.50	21593.50	74.128	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	122.41	2.50	12369.40	20566.20	12369.40	0.40	0.63	291.30	2.47	21951.70	21951.70	21951.70	75.357	
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	55.37	2.14	5671.31	5671.31	5671.31	0.30	0.63	43.66	1.21	8050.45	8050.45	8050.45	>100	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	55.37	2.17	5769.73	5769.73	5769.73	0.30	0.63	43.66	1.24	8243.15	8243.15	8243.15	>100	
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	55.37	2.25	5967.26	5967.26	5967.26	0.30	0.63	43.66	1.29	8626.34	8626.34	8626.34	>100	
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	21.21	2.50	6634.02	12224.80	6634.02	0.30	0.63	352.26	2.21	14758.00	14758.00	14758.00	41.895	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	21.21	2.50	6634.02	12371.10	6634.02	0.30	0.63	352.26	2.23	14864.00	14864.00	14864.00	42.196	
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	21.21	2.50	6634.02	12672.40	6634.02	0.30	0.63	352.26	2.26	15079.90	15079.90	15079.90	42.809	
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	9.94	2.50	6634.02	19353.80	6634.02	0.30	0.63	109.03	2.50	16677.60	21465.10	16677.60	>100	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	9.94	2.50	6634.02	19500.10	6634.02	0.30	0.63	109.03	2.50	16677.60	21627.40	16677.60	>100	
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	9.94	2.50	6634.02	19801.40	6634.02	0.30	0.63	109.03	2.50	16677.60	21961.50	16677.60	>100	
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	64.37	2.50	6634.02	26480.40	6634.02	0.30	0.63	31.71	2.50	16677.60	29369.20	16677.60	>100	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	64.37	2.50	6634.02	26626.70	6634.02	0.30	0.63	31.71	2.50	16677.60	29531.50	16677.60	>100	
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	64.37	2.50	6634.02	26928.00	6634.02	0.30	0.63	31.71	2.50	16677.60	29865.70	16677.60	>100	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	95.36	2.50	5312.50	22064.20	5312.50	0.25	0.63	286.62	2.50	16677.60	25465.50	16677.60	55.709	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	95.36	2.50	5312.50	22181.40	5312.50	0.25	0.63	286.62	2.50	16677.60	25600.80	16677.60	55.709	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	95.36	2.50	5312.50	22422.60	5312.50	0.25	0.63	286.62	2.50	16677.60	25879.20	16677.60	55.709	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	125.29	2.50	5312.50	25601.70	5312.50	0.25	0.63	63.36	2.50	16677.60	29548.40	16677.60	42.402	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	125.29	2.50	5312.50	25601.70	5312.50	0.25	0.63	63.36	2.50	16677.60	29548.40	16677.60	42.402	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	125.29	2.50	5312.50	25601.70	5312.50	0.25	0.63	63.36	2.50	16677.60	29548.40	16677.60	42.402	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	126.30	2.50	5312.50	25601.70	5312.50	0.25	0.63	745.21	2.50	16677.60	29548.40	16677.60	22.380	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	126.30	2.50	5312.50	25601.70	5312.50	0.25	0.63	745.21	2.50	16677.60	29548.40	16677.60	22.380	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	126.30	2.50	5312.50	25601.70	5312.50	0.25	0.63	745.21	2.50	16677.60	29548.40	16677.60	22.380	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	204.13	2.50	5312.50	24048.20	5312.50	0.25	0.63	3834.73	2.50	16677.60	27755.40	16677.60	4.349	
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	204.13	2.50	5312.50	24001.30	5312.50	0.25	0.63	3834.73	2.50	16677.60	27701.30	16677.60	4.349	
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	204.13	2.50	5312.50	23904.80	5312.50	0.25	0.63	3834.73	2.50	16677.60	27589.90	16677.60	4.349	

Pilastrata n. 30

Nodi: 130 330 530 730 930 1130 1330 1530 1730 1930

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
2R		40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
21R		30.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
22R		25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/prefflessione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.	
0.00	1	(e)	SLU	1	2	0.00	-193066.00	615.86	3861.32	1360.64	3861.32	-466051.00	20664.90	21371.60	68.91	1.92	2.414
0.00	1	(e)	SLU	1	2	0.00	-193066.00	615.86	3861.32	1360.64	3861.32	-466051.00	20664.90	21371.60	68.91	1.92	2.414
3.26	1	(e)	SLU	1	2	326.00	-190184.00	618.13	3803.68	-1155.23	-3803.68	-466051.00	20673.80	-21388.30	291.09	1.96	2.451
6.50	1	(e)	SLU	3	21	0.00	-150655.00	605.25	3013.10	651.70	3013.10	-353140.00	12835.40	12592.20	78.05	1.67	2.344
6.50	1	(e)	SLU	3	21	0.00	-150655.00	605.25	3013.10	651.70	3013.10	-353140.00	12835.40	12592.20	78.05	1.67	2.344
9.26	1	(e)	SLU	3	21	276.00	-148825.00	217.25	2976.50	-615.16	-2976.50	-353140.00	12878.10	-12613.70	281.95	1.71	2.373
9.50	1	(e)	SLU	4	21	0.00	-130017.00	193.22	2600.34	547.23	2600.34	-353140.00	12953.90	12628.20	78.05	2.08	2.716
9.50	1	(e)	SLU	4	21	0.00	-130017.00	193.22	2600.34	547.23	2600.34	-353140.00	12953.90	12628.20	78.05	2.08	2.716
12.26	1	(e)	SLU	4	21	276.00	-128187.00	48.13	2563.74	-520.82	-2563.74	-353140.00	12957.00	-12617.40	281.95	2.12	2.755
12.50	1	(e)	SLU	5	21	0.00	-109360.00	57.46	2187.21	519.39	2187.21	-353140.00	12250.90	12628.40	78.75	2.54	3.229
12.50	1	(e)	SLU	5	21	0.00	-109360.00	57.46	2187.21	519.39	2187.21	-353140.00	12250.90	12628.40	78.75	2.54	3.229
15.26	1	(e)	SLU	5	21	276.00	-107531.00	290.88	2150.61	-564.38	-2150.61	-353140.00	12252.00	-12601.00	281.25	2.58	3.284
15.50	1	(e)	SLU	6	22	0.00	-88697.80	354.77	1773.96	352.57	1773.96	-303890.00	9472.20	9196.10	82.27	2.47	3.286
15.50	1	(e)	SLU	6	22	0.00	-88697.80	354.77	1773.96	352.57	1773.96	-289480.00	8813.97	8822.63	80.86	2.46	3.264
18.26	1	(e)	SLU	6	22	276.00	-87172.90	1178.68	1743.46	-359.02	-1743.46	-289480.00	8800.29	-8799.51	279.14	2.51	3.321
18.50	1	(e)	SLU	7	22	0.00	-68415.70	1381.70	1381.70	343.45	1368.31	-289480.00	8593.41	8295.15	80.86	3.17	4.231
18.50	1	(e)	SLU	7	22	0.00	-68415.70	1381.70	1381.70	343.45	1368.31	-289480.00	8593.41	8295.15	80.86	3.17	4.231
21.26	1	(e)	SLU	7	22	276.00	-66890.80	2090.67	2090.67	-328.88	-1337.82	-289480.00	11765.90	-7463.66	282.66	3.09	4.328
21.50	1	(e)	SLU	8	22	0.00	-48127.70	2470.86	2470.86	307.61	962.55	-48127.70	14890.70	5690.56	71.72	3.77	6.012
21.50	1	(e)	SLU	8	22	0.00	-48127.70	2470.86	2470.86	307.61	962.55	-48127.70	14890.70	5690.56	71.72	3.77	6.012
24.26	1	(e)	SLU	8	22	276.00	-46602.80	1854.52	1854.52	-285.68	-932.05	-289480.00	12332.40	-6368.09	284.06	3.89	6.212
24.50	1	(e)	SLU	9	22	0.00	-27820.40	2280.16	2280.16	370.89	556.41	-27820.40	15904.20	3866.31	61.88	5.18	6.974
24.50	1	(e)	SLU	9	22	0.00	-27820.40	2280.16	2280.16	370.89	556.41	-27820.40	15904.20	3866.31	61.88	5.18	6.974



Relazione di calcolo

27.26	1(e)	SLU	9	22	276.00	-26295.50	-446.56	-525.91	-437.64	-525.91	-289480.00	-6275.76	-6241.77	264.38	6.42	11.009
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Dati per verifiche di stabilità

Xg	El	l <sub>0</sub>	λ	λ*
<m>	<m>			
---	2	3.00	34.64	32.92
---	2	3.00	34.64	32.92
---	2	3.00	34.64	32.92

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy,s	MRdz,s	α	ε <sub>r</sub>	Sic.
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
3.50	1(e)	SLU	2	21	0.00	-171285.00	607.43	3425.69	601.71	3425.69	-367550.00	12364.60	12123.90	77.34	1.41	2.146
3.50	1(e)	SLU	2	21	0.00	-171285.00	607.43	3425.69	601.71	3425.69	-353140.00	11297.90	11146.70	78.05	1.33	2.062
6.26	1(e)	SLU	2	21	276.00	-169455.00	611.30	3389.10	-660.92	-3389.10	-353140.00	11317.40	-11180.60	281.95	1.36	2.084

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ <sub>c</sub>	σ <sub>t</sub>
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE	R	1	2	0.00	-138063.00	974.63	490.51	0.00	51.72	756.49
0.00	4	SLE	Q	1	2	0.00	-114182.00	803.53	453.44	0.00	42.89	627.23
0.00	2	SLE	R	1	2	0.00	-138063.00	974.63	490.51	0.00	51.72	756.49
0.00	4	SLE	Q	1	2	0.00	-114182.00	803.53	453.44	0.00	42.89	627.23
3.26	2	SLE	R	1	2	326.00	-135846.00	-825.30	476.83	0.00	50.23	736.82
3.26	4	SLE	Q	1	2	326.00	-111965.00	-676.06	425.99	0.00	41.47	608.25
3.50	2	SLE	R	2	21	0.00	-122393.00	428.84	468.54	0.00	57.54	842.74
3.50	4	SLE	Q	2	21	0.00	-101037.00	345.52	417.43	0.00	47.54	696.38
3.50	2	SLE	R	2	21	0.00	-122393.00	428.84	468.54	0.00	59.08	865.12
3.50	4	SLE	Q	2	21	0.00	-101037.00	345.52	417.43	0.00	48.81	714.84
6.26	2	SLE	R	2	21	276.00	-120985.00	-470.39	469.38	0.00	58.83	859.62
6.26	4	SLE	Q	2	21	276.00	-99629.50	-378.08	416.62	0.00	48.47	708.46
6.50	2	SLE	R	3	21	0.00	-107602.00	462.78	465.34	0.00	52.88	770.76
6.50	4	SLE	Q	3	21	0.00	-88757.80	365.22	412.74	0.00	43.58	635.64
6.50	2	SLE	R	3	21	0.00	-107602.00	462.78	465.34	0.00	52.88	770.76
6.50	4	SLE	Q	3	21	0.00	-88757.80	365.22	412.74	0.00	43.58	635.64
9.26	2	SLE	R	3	21	276.00	-106194.00	-436.05	177.44	0.00	50.99	745.66
9.26	4	SLE	Q	3	21	276.00	-87350.20	-342.49	165.08	0.00	41.87	612.79
9.50	2	SLE	R	4	21	0.00	-92803.10	386.80	160.24	0.00	44.63	652.39
9.50	4	SLE	Q	4	21	0.00	-76464.30	296.01	150.46	0.00	36.64	536.36
9.50	2	SLE	R	4	21	0.00	-92803.10	386.80	160.24	0.00	44.63	652.39
9.50	4	SLE	Q	4	21	0.00	-76464.30	296.01	150.46	0.00	36.64	536.36
12.26	2	SLE	R	4	21	276.00	-91395.50	-367.54	51.05	0.00	43.45	636.31
12.26	4	SLE	Q	4	21	276.00	-75056.70	-280.21	56.62	0.00	35.55	521.30
12.50	2	SLE	R	5	21	0.00	-77989.00	365.41	58.50	0.00	37.58	548.32
12.50	4	SLE	Q	5	21	0.00	-64152.10	271.28	63.76	0.00	30.71	449.13
12.50	2	SLE	R	5	21	0.00	-77989.00	365.41	58.50	0.00	37.58	548.32
12.50	4	SLE	Q	5	21	0.00	-64152.10	271.28	63.76	0.00	30.71	449.13
15.26	2	SLE	R	5	21	276.00	-76581.40	-396.93	228.18	0.00	37.85	549.81
15.26	4	SLE	Q	5	21	276.00	-62744.50	-295.87	209.21	0.00	30.84	448.87
15.50	2	SLE	R	6	22	0.00	-63169.80	247.15	275.92	0.00	36.80	532.12
15.50	4	SLE	Q	6	22	0.00	-51833.00	179.64	251.48	0.00	30.01	435.26
15.50	2	SLE	R	6	22	0.00	-63169.80	247.15	275.92	0.00	37.92	548.79
15.50	4	SLE	Q	6	22	0.00	-51833.00	179.64	251.48	0.00	30.94	449.03
18.26	2	SLE	R	6	22	276.00	-61996.80	-251.23	878.03	0.00	40.05	574.80
18.26	4	SLE	Q	6	22	276.00	-50660.00	-181.42	759.15	0.00	32.61	469.30
18.50	2	SLE	R	7	22	0.00	-48639.20	239.53	1028.15	0.00	33.47	475.60
18.50	4	SLE	Q	7	22	0.00	-39791.30	167.54	889.04	0.00	27.24	388.52
18.50	2	SLE	R	7	22	0.00	-48639.20	239.53	1028.15	0.00	33.47	475.60
18.50	4	SLE	Q	7	22	0.00	-39791.30	167.54	889.04	0.00	27.24	388.52
21.26	2	SLE	R	7	22	276.00	-47466.20	-229.00	1543.31	0.00	35.03	494.85
21.26	4	SLE	Q	7	22	276.00	-38618.30	-159.29	1306.00	0.00	28.38	402.35
21.50	2	SLE	R	8	22	0.00	-34103.30	214.20	1823.35	0.00	28.99	402.77
21.50	4	SLE	Q	8	22	0.00	-27742.00	145.71	1544.56	0.00	23.50	327.84
21.50	2	SLE	R	8	22	0.00	-34103.30	214.20	1823.35	0.00	28.99	402.77
21.50	4	SLE	Q	8	22	0.00	-27742.00	145.71	1544.56	0.00	23.50	327.84
24.26	2	SLE	R	8	22	276.00	-32930.30	-198.86	1361.04	0.00	26.10	364.83
24.26	4	SLE	Q	8	22	276.00	-26569.00	-134.59	1124.66	0.00	20.86	292.85
24.50	2	SLE	R	9	22	0.00	-19552.90	256.79	1673.41	0.00	21.12	283.06
24.50	4	SLE	Q	9	22	0.00	-15678.60	172.96	1388.87	0.00	16.73	225.82
24.50	2	SLE	R	9	22	0.00	-19552.90	256.79	1673.41	0.00	21.12	283.06
24.50	4	SLE	Q	9	22	0.00	-15678.60	172.96	1388.87	0.00	16.73	225.82
27.26	2	SLE	R	9	22	276.00	-18379.90	-301.49	-329.65	0.00	15.03	201.10
27.26	4	SLE	Q	9	22	276.00	-14505.60	-202.84	-281.50	0.00	11.52	155.82

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>v</sub>	d <sub>v</sub>	Vsdu <sub>v</sub>	ctgθ <sub>v</sub>	VRsd <sub>v</sub>	VRcd <sub>v</sub>	Vrd <sub>v</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<m>	<m>						<m>	<cm>	<daN>		<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	771.74	2.50	12369.40	23693.50	12369.40	0.40	0.63	0.70	2.50	22236.70	25055.40	22236.70	16.028	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	771.74	2.50	12369.40	23898.10	12369.40	0.40	0.63	0.70	2.50	22236.70	25271.80	22236.70	16.028	



Relazione di calcolo

2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	771.74	2.50	12369.40	24469.80	12369.40	0.40	0.63	0.70	2.50	22236.70	25876.40	22236.70	16.028
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	457.48	2.50	6634.02	8346.94	6634.02	0.30	0.63	1.40	1.74	11601.40	11601.40	11601.40	14.501
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	457.48	2.50	6634.02	8493.27	6634.02	0.30	0.63	1.40	1.76	11736.00	11736.00	11736.00	14.501
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	457.48	2.50	6634.02	8794.53	6634.02	0.30	0.63	1.40	1.80	12008.20	12008.20	12008.20	14.501
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	459.01	2.50	6634.02	15042.80	6634.02	0.30	0.63	140.58	2.50	16677.60	16683.80	16677.60	14.453
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	459.01	2.50	6634.02	15189.10	6634.02	0.30	0.63	140.58	2.50	16677.60	16846.10	16677.60	14.453
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	459.01	2.50	6634.02	15490.40	6634.02	0.30	0.63	140.58	2.50	16677.60	17180.30	16677.60	14.453
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	386.98	2.50	6634.02	21741.20	6634.02	0.30	0.63	52.57	2.50	16677.60	24113.00	16677.60	17.143
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	386.98	2.50	6634.02	21887.50	6634.02	0.30	0.63	52.57	2.50	16677.60	24275.30	16677.60	17.143
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	386.98	2.50	6634.02	22188.80	6634.02	0.30	0.63	52.57	2.50	16677.60	24609.40	16677.60	17.143
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	392.67	2.50	6634.02	28445.60	6634.02	0.30	0.63	84.58	2.50	16677.60	31548.80	16677.60	16.895
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	392.67	2.50	6634.02	28591.90	6634.02	0.30	0.63	84.58	2.50	16677.60	31711.10	16677.60	16.895
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	392.67	2.50	6634.02	28893.20	6634.02	0.30	0.63	84.58	2.50	16677.60	32045.30	16677.60	16.895
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	257.82	2.50	5312.50	23538.90	5312.50	0.25	0.63	298.52	2.50	16677.60	27167.60	16677.60	20.605
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	257.82	2.50	5312.50	23656.10	5312.50	0.25	0.63	298.52	2.50	16677.60	27302.80	16677.60	20.605
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	257.82	2.50	5312.50	23897.30	5312.50	0.25	0.63	298.52	2.50	16677.60	27581.30	16677.60	20.605
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	243.60	2.50	5312.50	25601.70	5312.50	0.25	0.63	256.87	2.50	16677.60	29548.40	16677.60	21.808
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	243.60	2.50	5312.50	25601.70	5312.50	0.25	0.63	256.87	2.50	16677.60	29548.40	16677.60	21.808
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	243.60	2.50	5312.50	25601.70	5312.50	0.25	0.63	256.87	2.50	16677.60	29548.40	16677.60	21.808
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	214.96	2.50	5312.50	25601.70	5312.50	0.25	0.63	223.31	2.50	16677.60	29548.40	16677.60	24.714
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	214.96	2.50	5312.50	25601.70	5312.50	0.25	0.63	223.31	2.50	16677.60	29548.40	16677.60	24.714
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	214.96	2.50	5312.50	25601.70	5312.50	0.25	0.63	223.31	2.50	16677.60	29548.40	16677.60	24.714
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	292.94	2.50	5312.50	23952.20	5312.50	0.25	0.63	987.94	2.50	16677.60	27644.60	16677.60	16.881
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	292.94	2.50	5312.50	23905.30	5312.50	0.25	0.63	987.94	2.50	16677.60	27590.50	16677.60	16.881
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	292.94	2.50	5312.50	23808.80	5312.50	0.25	0.63	987.94	2.50	16677.60	27479.10	16677.60	16.881

Pilastrata n. 31

Nodi: 131 169 331 531 731 931 1131 1331 1531 1731 1931

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
2R		40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
21R		30.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
22R		25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
-3.60	1(e)	SLU	1	2	0.00	-208040.00	282.81	4160.81	289.18	4160.81	-466051.00	20594.00	21205.70	68.91	1.72	2.240
-3.60	1(e)	SLU	1	2	0.00	-208040.00	282.81	4160.81	289.18	4160.81	-466051.00	20594.00	21205.70	68.91	1.72	2.240
-0.35	1(e)	SLU	1	2	325.00	-205167.00	577.34	4103.35	-525.12	-4103.35	-466051.00	20623.80	-21252.00	291.09	1.76	2.272
0.00	1(e)	SLU	2	2	0.00	-182789.00	613.58	3655.77	1132.59	3655.77	-466051.00	20695.60	21415.70	68.91	2.07	2.550
0.00	1(e)	SLU	2	2	0.00	-182789.00	613.58	3655.77	1132.59	3655.77	-466051.00	20695.60	21415.70	68.91	2.07	2.550
3.26	1(e)	SLU	2	2	326.00	-179907.00	441.46	3598.14	-1057.37	-3598.14	-466051.00	20703.30	-21416.80	291.09	2.11	2.591
6.50	1(e)	SLU	4	21	0.00	-143211.00	387.90	2864.22	651.74	2864.22	-353140.00	12929.30	12650.20	78.05	1.81	2.466
6.50	1(e)	SLU	4	21	0.00	-143211.00	387.90	2864.22	651.74	2864.22	-353140.00	12929.30	12650.20	78.05	1.81	2.466
9.26	1(e)	SLU	4	21	276.00	-141381.00	171.16	2827.63	-639.41	-2827.63	-353140.00	12932.80	-12650.70	281.95	1.85	2.498
9.50	1(e)	SLU	5	21	0.00	-123845.00	146.82	2476.89	608.52	2476.89	-353140.00	12964.40	12589.90	78.05	2.21	2.851
9.50	1(e)	SLU	5	21	0.00	-123845.00	146.82	2476.89	608.52	2476.89	-353140.00	12964.40	12589.90	78.05	2.21	2.851
12.26	1(e)	SLU	5	21	276.00	-122015.00	28.16	2440.30	-588.73	-2440.30	-353140.00	12967.00	-12574.70	281.95	2.25	2.894
12.50	1(e)	SLU	6	21	0.00	-104420.00	25.45	2088.39	628.46	2088.39	-353140.00	12253.80	12552.40	78.75	2.65	3.382
12.50	1(e)	SLU	6	21	0.00	-104420.00	25.45	2088.39	628.46	2088.39	-353140.00	12253.80	12552.40	78.75	2.65	3.382
15.26	1(e)	SLU	6	21	276.00	-102590.00	227.06	2051.80	-693.39	-2051.80	-353140.00	12254.60	-12516.40	281.25	2.70	3.442
15.50	1(e)	SLU	7	22	0.00	-84901.30	277.41	1698.03	464.32	1698.03	-303890.00	9472.13	9152.77	82.27	2.57	3.579
15.50	1(e)	SLU	7	22	0.00	-84901.30	277.41	1698.03	464.32	1698.03	-289480.00	8779.98	8764.26	80.86	2.57	3.410
18.26	1(e)	SLU	7	22	276.00	-83376.40	695.31	1667.53	-484.56	-1667.53	-289480.00	8766.42	-8740.09	279.14	2.62	3.472
18.50	1(e)	SLU	8	22	0.00	-65612.30	807.35	1312.25	497.09	1312.25	-289480.00	8241.33	8282.81	81.21	3.30	4.412
18.50	1(e)	SLU	8	22	0.00	-65612.30	807.35	1312.25	497.09	1312.25	-289480.00	8241.33	8282.81	81.21	3.30	4.412
21.26	1(e)	SLU	8	22	276.00	-64087.40	1064.96	1281.75	-481.52	-1281.75	-289480.00	8218.56	-8225.77	278.79	3.37	4.517
21.50	1(e)	SLU	9	22	0.00	-46286.80	1176.45	1176.45	477.51	925.74	-289480.00	8917.08	7250.03	80.16	4.11	6.254
21.50	1(e)	SLU	9	22	0.00	-46286.80	1176.45	1176.45	477.51	925.74	-289480.00	8917.08	7250.03	80.16	4.11	6.254
24.26	1(e)	SLU	9	22	276.00	-44761.90	729.20	895.24	-453.60	-895.24	-289480.00	7388.13	-7434.03	277.73	4.47	6.467
24.50	1	SLU	10	22	0.00	-26922.20	720.48	720.48	587.26	587.26	-26922.20	7471.48	6199.42	82.97	5.97	10.445
24.50	1	SLU	10	22	0.00	-26922.20	720.48	720.48	587.26	587.26	-26922.20	7471.48	6199.42	82.97	5.97	10.445
27.26	1(e)	SLU	10	22	276.00	-25397.30	38.20	-507.95	-667.59	-667.59	-25397.30	-4622.10	-6279.27	266.13	7.15	9.295

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	3	3.00	34.64	33.81
---	3	3.00	34.64	33.81
---	3	3.00	34.64	33.81

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy, s <daNm>	MRdz, s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
3.50	1(e)	SLU	3	21	0.00	-162492.00	455.67	3249.84	597.34	3249.84	-367550.00	12436.10	12376.90	77.34	1.54	2.262
3.50	1(e)	SLU	3	21	0.00	-162492.00	455.67	3249.84	597.34	3249.84	-353140.00	11415.70	11285.90	78.05	1.47	2.173
6.26	1(e)	SLU	3	21	276.00	-160662.00	400.81	3213.24	-644.90	-3213.24	-353140.00	11434.10	-11314.50	281.95	1.50	2.198



Relazione di calcolo

0.00	2	SLE R	2	2	0.00	-130632.00	810.75	470.10	0.00	20.11	48.42	709.89
0.00	4	SLE Q	2	2	0.00	-107765.00	667.64	423.51	0.00	20.11	40.04	586.85
0.00	2	SLE R	2	2	0.00	-130632.00	810.75	470.10	0.00	20.11	48.42	709.89
0.00	4	SLE Q	2	2	0.00	-107765.00	667.64	423.51	0.00	20.11	40.04	586.85
3.26	2	SLE R	2	2	326.00	-128416.00	-757.12	345.59	0.00	20.11	47.08	691.45
3.26	4	SLE Q	2	2	326.00	-105549.00	-625.58	312.27	0.00	20.11	38.79	569.52
3.50	2	SLE R	3	21	0.00	-116024.00	428.38	355.92	0.00	20.11	54.42	796.71
3.50	4	SLE Q	3	21	0.00	-95501.10	353.06	320.11	0.00	20.11	44.89	657.08
3.50	2	SLE R	3	21	0.00	-116024.00	428.38	355.92	0.00	16.09	55.88	817.94
3.50	4	SLE Q	3	21	0.00	-95501.10	353.06	320.11	0.00	16.09	46.09	674.57
6.26	2	SLE R	3	21	276.00	-114616.00	-462.01	313.30	0.00	16.09	55.40	809.71
6.26	4	SLE Q	3	21	276.00	-94093.50	-380.56	278.86	0.00	16.09	45.57	665.85
6.50	2	SLE R	4	21	0.00	-102202.00	467.12	303.59	0.00	16.09	49.97	728.09
6.50	4	SLE Q	4	21	0.00	-84038.40	382.04	269.92	0.00	16.09	41.14	599.46
6.50	2	SLE R	4	21	0.00	-102202.00	467.12	303.59	0.00	16.09	49.97	728.09
6.50	4	SLE Q	4	21	0.00	-84038.40	382.04	269.92	0.00	16.09	41.14	599.46
9.26	2	SLE R	4	21	276.00	-100795.00	-458.18	143.75	0.00	16.09	48.69	710.57
9.26	4	SLE Q	4	21	276.00	-82630.80	-375.36	134.07	0.00	16.09	39.98	583.26
9.50	2	SLE R	5	21	0.00	-88319.80	436.66	125.63	0.00	16.09	42.97	625.77
9.50	4	SLE Q	5	21	0.00	-72524.60	355.40	118.22	0.00	16.09	35.31	514.28
9.50	2	SLE R	5	21	0.00	-88319.80	436.66	125.63	0.00	16.09	42.97	625.77
9.50	4	SLE Q	5	21	0.00	-72524.60	355.40	118.22	0.00	16.09	35.31	514.28
12.26	2	SLE R	5	21	276.00	-86912.20	-422.30	37.61	0.00	16.09	41.91	611.12
12.26	4	SLE Q	5	21	276.00	-71117.00	-344.20	44.24	0.00	16.09	34.33	500.56
12.50	2	SLE R	6	21	0.00	-74395.20	450.91	35.39	0.00	16.09	36.67	531.28
12.50	4	SLE Q	6	21	0.00	-60976.00	364.56	42.26	0.00	16.09	30.06	435.62
12.50	2	SLE R	6	21	0.00	-74395.20	450.91	35.39	0.00	16.09	36.67	531.28
12.50	4	SLE Q	6	21	0.00	-60976.00	364.56	42.26	0.00	16.09	30.06	435.62
15.26	2	SLE R	6	21	276.00	-72987.60	-497.01	182.06	0.00	16.09	36.98	533.00
15.26	4	SLE Q	6	21	276.00	-59568.40	-402.30	166.38	0.00	16.09	30.22	435.54
15.50	2	SLE R	7	22	0.00	-60404.20	332.87	218.76	0.00	16.09	36.21	517.72
15.50	4	SLE Q	7	22	0.00	-49373.40	268.70	197.44	0.00	16.09	29.64	423.79
15.50	2	SLE R	7	22	0.00	-60404.20	332.87	218.76	0.00	12.06	37.27	533.50
15.50	4	SLE Q	7	22	0.00	-49373.40	268.70	197.44	0.00	12.06	30.51	436.75
18.26	2	SLE R	7	22	276.00	-59231.20	-347.25	523.62	0.00	12.06	38.20	543.50
18.26	4	SLE Q	7	22	276.00	-48200.40	-280.56	452.19	0.00	12.06	31.17	443.55
18.50	2	SLE R	8	22	0.00	-46596.40	356.74	605.60	0.00	12.06	31.97	448.60
18.50	4	SLE Q	8	22	0.00	-37969.50	287.63	521.09	0.00	12.06	26.13	366.79
18.50	2	SLE R	8	22	0.00	-46596.40	356.74	605.60	0.00	12.06	31.97	448.60
18.50	4	SLE Q	8	22	0.00	-37969.50	287.63	521.09	0.00	12.06	26.13	366.79
21.26	2	SLE R	8	22	276.00	-45423.40	-345.44	791.39	0.00	12.06	32.03	448.68
21.26	4	SLE Q	8	22	276.00	-36796.50	-278.52	670.91	0.00	12.06	26.07	365.04
21.50	2	SLE R	9	22	0.00	-32762.70	343.01	872.89	0.00	12.06	25.64	352.15
21.50	4	SLE Q	9	22	0.00	-26544.30	275.62	738.55	0.00	12.06	20.88	286.86
21.50	2	SLE R	9	22	0.00	-32762.70	343.01	872.89	0.00	12.06	25.64	352.15
21.50	4	SLE Q	9	22	0.00	-26544.30	275.62	738.55	0.00	12.06	20.88	286.86
24.26	2	SLE R	9	22	276.00	-31589.70	-325.62	539.49	0.00	12.06	23.30	321.44
24.26	4	SLE Q	9	22	276.00	-25371.30	-261.35	452.56	0.00	12.06	18.80	259.26
24.50	2	SLE R	10	22	0.00	-18901.90	420.53	532.39	0.00	12.06	17.72	231.00
24.50	4	SLE Q	10	22	0.00	-15097.60	337.10	446.40	0.00	12.06	14.26	185.88
24.50	2	SLE R	10	22	0.00	-18901.90	420.53	532.39	0.00	12.06	17.72	231.00
24.50	4	SLE Q	10	22	0.00	-15097.60	337.10	446.40	0.00	12.06	14.26	185.88
27.26	2	SLE R	10	22	276.00	-17728.90	-476.91	28.21	0.00	12.06	15.54	199.07
27.26	4	SLE Q	10	22	276.00	-13924.60	-381.99	22.02	0.00	12.06	12.30	157.21

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <m>	d <sub>y</sub> <m>	Vsdu <sub>y</sub> <d>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <d>	VRcd <sub>y</sub> <d>	Vrd <sub>y</sub> <d>	bw <sub>z</sub> <m>	d <sub>z</sub> <m>	Vsdu <sub>z</sub> <d>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <d>	VRcd <sub>z</sub> <d>	Vrd <sub>z</sub> <d>	Sic.
-3.60	-2.92	ø8/25	2	21	SLU	0.68	0.35	250.55	2.50	9895.53	18596.00	9895.53	0.40	0.63	90.62	2.50	17789.40	19665.00	17789.40	39.495	
-2.92	-1.03	ø8/25	2	21	SLU	0.68	0.35	250.55	2.50	9895.53	18800.70	9895.53	0.40	0.63	90.62	2.50	17789.40	19881.40	17789.40	39.495	
-1.03	-0.35	ø8/25	2	21	SLU	0.68	0.35	250.55	2.50	9895.53	19369.40	9895.53	0.40	0.63	90.62	2.50	17789.40	20482.80	17789.40	39.495	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	671.77	2.50	12369.40	27192.00	12369.40	0.40	0.63	52.80	2.50	22236.70	28755.00	22236.70	18.413	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	671.77	2.50	12369.40	27396.60	12369.40	0.40	0.63	52.80	2.50	22236.70	28971.40	22236.70	18.413	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	671.77	2.50	12369.40	27968.40	12369.40	0.40	0.63	52.80	2.50	22236.70	29576.10	22236.70	18.413	
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	450.09	2.50	6634.02	11200.70	6634.02	0.30	0.63	19.88	2.10	13993.80	13993.80	13993.80	14.739	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	450.09	2.50	6634.02	11347.10	6634.02	0.30	0.63	19.88	2.11	14105.50	14105.50	14105.50	14.739	
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	450.09	2.50	6634.02	11648.30	6634.02	0.30	0.63	19.88	2.15	14332.80	14332.80	14332.80	14.739	
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	467.81	2.50	6634.02	17458.70	6634.02	0.30	0.63	78.53	2.50	16677.60	19363.30	16677.60	14.181	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	467.81	2.50	6634.02	17605.00	6634.02	0.30	0.63	78.53	2.50	16677.60	19525.60	16677.60	14.181	
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	467.81	2.50	6634.02	17906.30	6634.02	0.30	0.63	78.53	2.50	16677.60	19859.80	16677.60	14.181	
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	433.79	2.50	6634.02	23744.50	6634.02	0.30	0.63	42.99	2.50	16677.60	26334.80	16677.60	15.293	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	433.79	2.50	6634.02	23890.80	6634.02	0.30	0.63	42.99	2.50	16677.60	26497.10	16677.60	15.293	
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	433.79	2.50	6634.02	24192.10	6634.02	0.30	0.63	42.99	2.50	16677.60	26831.30	16677.60	15.293	
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	478.93	2.50	6634.02	30049.20	6634.02	0.30	0.63	73.05	2.50	16677.60	33327.40	16677.60	13.852	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	478.93	2.50	6634.02	30195.60	6634.02	0.30	0.63	73.05	2.50	16677.60	33489.70	16677.60	13.852	
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	478.93	2.50	6634.02	30496.80	6634.02	0.30	0.63	73.05	2.50	16677.60	33823.80	16677.60	13.852	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	343.80	2.50	5312.50	24723.00	5312.50	0.25	0.63	151.41	2.50	16677.60	28534.20	16677.60	15.453	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	343.80	2.50	5312.50	24840.20	5312.50	0.25	0.63	151.41	2.50	16677.60	28669.50	16677.60	15.453	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	343.80	2.50	5312.50	25081.50	5312.50	0.25	0.63	151.41	2.50	16677.60	28947.90	16677.60	15.453	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	354.57	2.50	5312.50	25601.70	5312.50	0.25	0.63	93.34	2.50	16677.60	29548.40	16677.60	14.983	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	354.57	2.50	5312.50	25601.70	5312.50	0.25	0.63	93.34	2.50	16677.60	29548.40	16677.60	14.983	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	354.57	2.50	5312.50	25601.70	5312.50	0.25	0.63	93.34	2.50	16677.60	29548.40	16677.60	14.983	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	337.36	2.50	5312.50	25601.70	5312.50	0.25	0.63	162.05	2.50	16677.60	29548.40	16677.60	15.747	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	337.36	2.50	5312.50	25601.70	5312.50	0.25	0.63	162.05	2.50	16677.60	29548.40	16677.60	15.747	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	337.36	2.50	5312.50	25601.70	5312.50	0.25	0.63	162.05	2.50	16677.60	29548.40	16677.60	15.747	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	454.66	2.50	5312.50	23840.20	5312.50	0.25	0.63	247.20	2.50	16677.60	27515.30	16677.60	11.685	



Relazione di calcolo

25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	454.66	2.50	5312.50	23793.30	5312.50	0.25	0.63	247.20	2.50	16677.60	27461.20	16677.60	11.685
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	454.66	2.50	5312.50	23696.80	5312.50	0.25	0.63	247.20	2.50	16677.60	27349.80	16677.60	11.685

Pilastrata n. 32

Nodi: 132 170 332 532 732 932 1132 1332 1532 1732 1932

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
2R		40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
21R		30.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
22R		25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
-3.60	1(e)	SLU	1	2	0.00	-218254.00	1302.59	4365.08	828.24	4365.08	-466051.00	20409.20	20957.70	68.91	1.60	2.135
-3.60	1(e)	SLU	1	2	0.00	-218254.00	1302.59	4365.08	828.24	4365.08	-466051.00	20409.20	20957.70	68.91	1.60	2.135
-0.35	1(e)	SLU	1	2	325.00	-215381.00	181.95	4307.62	-1460.11	-4307.62	-466051.00	20462.10	-21028.70	291.09	1.64	2.164
0.00	1(e)	SLU	2	2	0.00	-185980.00	314.77	3719.61	1763.29	3719.61	-466051.00	20686.30	21411.10	68.91	2.02	2.506
0.00	1(e)	SLU	2	2	0.00	-185980.00	314.77	3719.61	1763.29	3719.61	-466051.00	20686.30	21411.10	68.91	2.02	2.506
3.26	1(e)	SLU	2	2	326.00	-183099.00	283.66	3661.97	-1065.42	-3661.97	-466051.00	20694.50	-21415.40	291.09	2.06	2.545
6.50	1(e)	SLU	4	21	0.00	-143581.00	665.75	2871.62	242.56	2871.62	-353140.00	12928.60	12648.80	78.05	1.80	2.460
6.50	1(e)	SLU	4	21	0.00	-143581.00	665.75	2871.62	242.56	2871.62	-353140.00	12928.60	12648.80	78.05	1.80	2.460
9.26	1(e)	SLU	4	21	276.00	-141751.00	-379.07	-2835.02	-175.19	-2835.02	-353140.00	-12932.20	-12650.90	258.05	1.84	2.491
9.50	1(e)	SLU	5	21	0.00	-123422.00	490.05	2468.45	22.17	2468.45	-353140.00	12965.00	12587.10	78.05	2.22	2.861
9.50	1(e)	SLU	5	21	0.00	-123422.00	490.05	2468.45	22.17	2468.45	-353140.00	12965.00	12587.10	78.05	2.22	2.861
12.26	1(e)	SLU	5	21	276.00	-121593.00	-496.07	-2431.85	12.49	2431.85	-353140.00	-12967.60	12570.70	101.95	2.26	2.904
12.50	1(e)	SLU	6	21	0.00	-103526.00	412.37	2070.52	-134.21	-2070.52	-353140.00	12254.10	-12536.60	281.25	2.68	3.411
12.50	1(e)	SLU	6	21	0.00	-103526.00	412.37	2070.52	-134.21	-2070.52	-353140.00	12254.10	-12536.60	281.25	2.68	3.411
15.26	1(e)	SLU	6	21	276.00	-101696.00	-492.09	-2033.93	139.81	2033.93	-353140.00	-12254.90	12490.00	101.25	2.72	3.473
15.50	1(e)	SLU	7	22	0.00	-83889.20	432.54	1677.78	-197.73	-1677.78	-303890.00	9009.45	-9197.88	277.38	2.61	3.623
15.50	1(e)	SLU	7	22	0.00	-83889.20	432.54	1677.78	-197.73	-1677.78	-289480.00	8770.98	-8748.26	279.14	2.60	3.451
18.26	1(e)	SLU	7	22	276.00	-82364.30	-366.54	-1647.29	239.98	1647.29	-289480.00	-8757.43	8723.82	99.14	2.65	3.515
18.50	1(e)	SLU	8	22	0.00	-64791.70	499.24	1295.83	-358.27	-1295.83	-289480.00	8229.07	-8252.17	278.79	3.34	4.468
18.50	1(e)	SLU	8	22	0.00	-64791.70	499.24	1295.83	-358.27	-1295.83	-289480.00	8229.07	-8252.17	278.79	3.34	4.468
21.26	1(e)	SLU	8	22	276.00	-63266.80	-328.31	-1265.34	366.40	1265.34	-289480.00	-8206.31	8194.91	98.79	3.40	4.576
21.50	1(e)	SLU	9	22	0.00	-45878.90	353.65	917.58	-451.77	-917.58	-289480.00	7357.39	-7506.19	277.73	4.40	6.310
21.50	1(e)	SLU	9	22	0.00	-45878.90	353.65	917.58	-451.77	-917.58	-289480.00	7357.39	-7506.19	277.73	4.40	6.310
24.26	1(e)	SLU	9	22	276.00	-44354.00	-365.43	-887.08	470.92	887.08	-289480.00	-7399.17	7407.68	97.73	4.49	6.527
24.50	1(e)	SLU	10	22	0.00	-27107.40	65.37	542.15	-375.07	-542.15	-289480.00	6261.06	-6304.79	275.62	6.35	10.679
24.50	1(e)	SLU	10	22	0.00	-27107.40	65.37	542.15	-375.07	-542.15	-289480.00	6261.06	-6304.79	275.62	6.35	10.679
27.26	1(e)	SLU	10	22	276.00	-25582.50	-276.06	-511.65	260.78	511.65	-289480.00	-6288.41	6186.59	95.62	6.48	11.316

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	3	3.00	34.64	33.65
---	3	3.00	34.64	33.65
---	3	3.00	34.64	33.65

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy, s <daNm>	MRdz, s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
3.50	1(e)	SLU	3	21	0.00	-164053.00	979.18	3281.06	290.03	3281.06	-367550.00	12404.30	12343.30	77.34	1.52	2.240
3.50	1(e)	SLU	3	21	0.00	-164053.00	979.18	3281.06	290.03	3281.06	-353140.00	11399.90	11261.20	78.05	1.45	2.153
6.26	1(e)	SLU	3	21	276.00	-162223.00	-119.58	-3244.46	-335.80	-3244.46	-353140.00	-11418.40	-11290.20	258.05	1.48	2.177

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cm>	AfC <cm>	σ <sub>c</sub> <daN/cm>	σ <sub>f</sub> <daN/cm>
-3.60	2	SLE	R	1	2	0.00	-156510.00	603.97	967.34	0.00	20.11	845.02
-3.60	4	SLE	Q	1	2	0.00	-130356.00	528.78	842.48	0.00	20.11	706.55
-3.60	2	SLE	R	1	2	0.00	-156510.00	603.97	967.34	0.00	20.11	845.02
-3.60	4	SLE	Q	1	2	0.00	-130356.00	528.78	842.48	0.00	20.11	706.55
-0.35	2	SLE	R	1	2	325.00	-154300.00	-1064.76	147.57	0.00	20.11	829.62
-0.35	4	SLE	Q	1	2	325.00	-128146.00	-932.63	143.26	0.00	20.11	692.40
0.00	2	SLE	R	2	2	0.00	-132964.00	1280.10	244.69	0.00	20.11	739.01
0.00	4	SLE	Q	2	2	0.00	-109725.00	1097.19	224.39	0.00	20.11	612.89
0.00	2	SLE	R	2	2	0.00	-132964.00	1280.10	244.69	0.00	20.11	739.01
0.00	4	SLE	Q	2	2	0.00	-109725.00	1097.19	224.39	0.00	20.11	612.89
3.26	2	SLE	R	2	2	326.00	-130748.00	-767.60	230.40	0.00	20.11	699.43
3.26	4	SLE	Q	2	2	326.00	-107508.00	-637.63	222.71	0.00	20.11	576.67
3.50	2	SLE	R	3	21	0.00	-117191.00	207.53	729.87	0.00	20.11	802.33
3.50	4	SLE	Q	3	21	0.00	-96515.40	161.18	617.20	0.00	20.11	660.68
3.50	2	SLE	R	3	21	0.00	-117191.00	207.53	729.87	0.00	16.09	823.26
3.50	4	SLE	Q	3	21	0.00	-96515.40	161.18	617.20	0.00	16.09	677.89
6.26	2	SLE	R	3	21	276.00	-115784.00	-242.29	-63.46	0.00	16.09	786.01
6.26	4	SLE	Q	3	21	276.00	-95107.80	-195.62	-30.81	0.00	16.09	644.35
6.50	2	SLE	R	4	21	0.00	-102516.00	178.34	500.94	0.00	16.09	713.46
6.50	4	SLE	Q	4	21	0.00	-84354.70	145.80	422.67	0.00	16.09	587.47
6.50	2	SLE	R	4	21	0.00	-102516.00	178.34	500.94	0.00	16.09	713.46
6.50	4	SLE	Q	4	21	0.00	-84354.70	145.80	422.67	0.00	16.09	587.47
9.26	2	SLE	R	4	21	276.00	-101109.00	-130.13	-254.16	0.00	16.09	688.36



Relazione di calcolo

9.264	SLE Q	4	21	276.00	-82947.10	-107.22	-195.25	0.00	16.09	38.00	564.13
9.502	SLE R	5	21	0.00	-88063.40	22.31	371.06	0.00	16.09	40.14	598.37
9.504	SLE Q	5	21	0.00	-72371.20	18.25	311.75	0.00	16.09	33.01	492.05
9.502	SLE R	5	21	0.00	-88063.40	22.31	371.06	0.00	16.09	40.14	598.37
9.504	SLE Q	5	21	0.00	-72371.20	18.25	311.75	0.00	16.09	33.01	492.05
12.262	SLE R	5	21	276.00	-86655.80	2.36	-340.66	0.00	16.09	39.24	585.90
12.264	SLE Q	5	21	276.00	-70963.60	0.32	-269.17	0.00	16.09	32.08	479.20
12.502	SLE R	6	21	0.00	-73795.70	-87.41	313.59	0.00	16.09	34.24	507.71
12.504	SLE Q	6	21	0.00	-60535.70	-70.63	263.88	0.00	16.09	28.10	416.69
12.502	SLE R	6	21	0.00	-73795.70	-87.41	313.59	0.00	16.09	34.24	507.71
12.504	SLE Q	6	21	0.00	-60535.70	-70.63	263.88	0.00	16.09	28.10	416.69
15.262	SLE R	6	21	276.00	-72388.10	91.06	-339.09	0.00	16.09	33.75	499.97
15.264	SLE Q	6	21	276.00	-59128.10	72.72	-268.39	0.00	16.09	27.52	407.84
15.502	SLE R	7	22	0.00	-59711.30	-134.31	326.48	0.00	16.09	33.81	494.87
15.504	SLE Q	7	22	0.00	-48847.40	-107.81	272.45	0.00	16.09	27.66	404.88
15.502	SLE R	7	22	0.00	-59711.30	-134.31	326.48	0.00	12.06	34.89	510.88
15.504	SLE Q	7	22	0.00	-48847.40	-107.81	272.45	0.00	12.06	28.54	418.00
18.262	SLE R	7	22	276.00	-58538.30	163.94	-250.33	0.00	12.06	34.30	500.59
18.264	SLE Q	7	22	276.00	-47674.40	131.19	-198.03	0.00	12.06	27.88	407.08
18.502	SLE R	8	22	0.00	-46028.30	-246.55	372.37	0.00	12.06	29.24	417.61
18.504	SLE Q	8	22	0.00	-37529.90	-197.70	306.04	0.00	12.06	23.81	340.25
18.502	SLE R	8	22	0.00	-46028.30	-246.55	372.37	0.00	12.06	29.24	417.61
18.504	SLE Q	8	22	0.00	-37529.90	-197.70	306.04	0.00	12.06	23.81	340.25
21.262	SLE R	8	22	276.00	-44855.30	252.56	-224.75	0.00	12.06	28.03	400.41
21.264	SLE Q	8	22	276.00	-36356.90	202.20	-176.71	0.00	12.06	22.66	323.94
21.502	SLE R	9	22	0.00	-32474.80	-310.93	264.03	0.00	12.06	22.35	310.81
21.504	SLE Q	9	22	0.00	-26315.00	-247.97	214.64	0.00	12.06	18.07	251.43
21.502	SLE R	9	22	0.00	-32474.80	-310.93	264.03	0.00	12.06	22.35	310.81
21.504	SLE Q	9	22	0.00	-26315.00	-247.97	214.64	0.00	12.06	18.07	251.43
24.262	SLE R	9	22	276.00	-31301.80	323.90	-253.37	0.00	12.06	21.84	302.37
24.264	SLE Q	9	22	276.00	-25141.90	257.15	-195.73	0.00	12.06	17.47	242.06
24.502	SLE R	10	22	0.00	-19020.30	-261.18	53.33	0.00	12.06	13.63	185.47
24.504	SLE Q	10	22	0.00	-15179.80	-215.82	43.87	0.00	12.06	10.98	148.96
24.502	SLE R	10	22	0.00	-19020.30	-261.18	53.33	0.00	12.06	13.63	185.47
24.504	SLE Q	10	22	0.00	-15179.80	-215.82	43.87	0.00	12.06	10.98	148.96
27.262	SLE R	10	22	276.00	-17847.30	186.33	-201.62	0.00	12.06	12.73	175.91
27.264	SLE Q	10	22	276.00	-14006.80	163.93	-164.38	0.00	12.06	10.24	140.49

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <cm>	d <sub>r,y</sub> <cm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <cm>	d <sub>r,z</sub> <cm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
-3.60	-2.92	ø8/25	2	21	SLU	0.68	0.35	704.11	2.50	9895.53	15119.30	9895.53	0.40	0.63	344.81	2.35	16712.20	16712.20	16712.20	14.054	
-2.92	-1.03	ø8/25	2	21	SLU	0.68	0.35	704.11	2.50	9895.53	15323.90	9895.53	0.40	0.63	344.81	2.37	16845.20	16845.20	16845.20	14.054	
-1.03	-0.35	ø8/25	2	21	SLU	0.68	0.35	704.11	2.50	9895.53	15892.60	9895.53	0.40	0.63	344.81	2.42	17209.70	17209.70	17209.70	14.054	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	867.70	2.50	12369.40	26105.50	12369.40	0.40	0.63	9.55	2.50	22236.70	27606.10	22236.70	14.255	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	867.70	2.50	12369.40	26310.10	12369.40	0.40	0.63	9.55	2.50	22236.70	27822.50	22236.70	14.255	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	867.70	2.50	12369.40	26881.90	12369.40	0.40	0.63	9.55	2.50	22236.70	28427.10	22236.70	14.255	
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	226.75	2.50	6634.02	10694.10	6634.02	0.30	0.63	398.10	2.04	13599.80	13599.80	13599.80	29.257	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	226.75	2.50	6634.02	10840.40	6634.02	0.30	0.63	398.10	2.06	13714.80	13714.80	13714.80	29.257	
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	226.75	2.50	6634.02	11141.70	6634.02	0.30	0.63	398.10	2.09	13948.40	13948.40	13948.40	29.257	
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	151.36	2.50	6634.02	17338.70	6634.02	0.30	0.63	378.56	2.50	16677.60	19230.20	16677.60	43.830	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	151.36	2.50	6634.02	17485.00	6634.02	0.30	0.63	378.56	2.50	16677.60	19392.50	16677.60	43.830	
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	151.36	2.50	6634.02	17786.30	6634.02	0.30	0.63	378.56	2.50	16677.60	19726.60	16677.60	43.830	
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	3.51	2.50	6634.02	23881.50	6634.02	0.30	0.63	357.29	2.50	16677.60	26486.80	16677.60	46.678	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	3.51	2.50	6634.02	24027.90	6634.02	0.30	0.63	357.29	2.50	16677.60	26649.10	16677.60	46.678	
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	3.51	2.50	6634.02	24329.10	6634.02	0.30	0.63	357.29	2.50	16677.60	26983.30	16677.60	46.678	
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	99.28	2.50	6634.02	30339.20	6634.02	0.30	0.63	327.70	2.50	16677.60	33649.00	16677.60	50.892	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	99.28	2.50	6634.02	30485.60	6634.02	0.30	0.63	327.70	2.50	16677.60	33811.30	16677.60	50.892	
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	99.28	2.50	6634.02	30786.80	6634.02	0.30	0.63	327.70	2.50	16677.60	34145.50	16677.60	50.892	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	158.59	2.50	5312.50	25038.70	5312.50	0.25	0.63	289.52	2.50	16677.60	28898.60	16677.60	33.498	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	158.59	2.50	5312.50	25155.90	5312.50	0.25	0.63	289.52	2.50	16677.60	29033.80	16677.60	33.498	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	158.59	2.50	5312.50	25397.10	5312.50	0.25	0.63	289.52	2.50	16677.60	29312.30	16677.60	33.498	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	262.56	2.50	5312.50	25601.70	5312.50	0.25	0.63	299.84	2.50	16677.60	29548.40	16677.60	20.233	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	262.56	2.50	5312.50	25601.70	5312.50	0.25	0.63	299.84	2.50	16677.60	29548.40	16677.60	20.233	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	262.56	2.50	5312.50	25601.70	5312.50	0.25	0.63	299.84	2.50	16677.60	29548.40	16677.60	20.233	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	334.31	2.50	5312.50	25601.70	5312.50	0.25	0.63	260.54	2.50	16677.60	29548.40	16677.60	15.891	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	334.31	2.50	5312.50	25601.70	5312.50	0.25	0.63	260.54	2.50	16677.60	29548.40	16677.60	15.891	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	334.31	2.50	5312.50	25601.70	5312.50	0.25	0.63	260.54	2.50	16677.60	29548.40	16677.60	15.891	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	230.38	2.50	5312.50	23863.30	5312.50	0.25	0.63	123.71	2.50	16677.60	27541.90	16677.60	23.060	
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	230.38	2.50	5312.50	23816.40	5312.50	0.25	0.63	123.71	2.50	16677.60	27487.80	16677.60	23.060	
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	230.38	2.50	5312.50	23719.90	5312.50	0.25	0.63	123.71	2.50	16677.60	27376.50	16677.60	23.060	

Pilastrata n. 33

Nodi: 133 333 533 733 933 1133 1333 1533 1733 1933

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm<sup>q></sup>>	Fctm <daN/cm<sup>q></sup>>	Fcd <daN/cm<sup>q></sup>>	Fcd (Tag) <daN/cm<sup>q></sup>>	Fctd <daN/cm<sup>q></sup>>	Fym <daN/cm<sup>q></sup>>	Fyd <daN/cm<sup>q></sup>>	Fyd (Tag) <daN/cm<sup>q></sup>>
2R		40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
21R		30.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
22R		25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <cm>	CC	TCC	El	Sez.	X <cm>	N <daN&gt
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Relazione di calcolo

0.00	1(e)	SLU	1	2	0.00	-195949.00	-220.15	-3918.98	-651.51	-3918.98	-466051.00	-20655.30	-21353.90	248.91	1.88	2.378
3.26	1(e)	SLU	1	2	326.00	-193067.00	750.81	3861.35	907.84	3861.35	-466051.00	20664.90	21371.60	68.91	1.92	2.414
6.50	1(e)	SLU	3	21	0.00	-152200.00	986.51	3044.01	-354.23	-3044.01	-353140.00	12798.70	-12573.60	281.95	1.65	2.320
6.50	1(e)	SLU	3	21	0.00	-152200.00	986.51	3044.01	-354.23	-3044.01	-353140.00	12798.70	-12573.60	281.95	1.65	2.320
9.26	1(e)	SLU	3	21	276.00	-150371.00	-207.06	-3007.41	262.84	3007.41	-353140.00	-12841.90	12595.50	101.95	1.68	2.348
9.50	1(e)	SLU	4	21	0.00	-131174.00	477.90	2623.48	-178.71	-2623.48	-353140.00	12951.60	-12634.70	281.95	2.05	2.692
9.50	1(e)	SLU	4	21	0.00	-131174.00	477.90	2623.48	-178.71	-2623.48	-353140.00	12951.60	-12634.70	281.95	2.05	2.692
12.26	1(e)	SLU	4	21	276.00	-129344.00	-448.40	-2586.89	100.95	2586.89	-353140.00	-12955.00	12624.30	101.95	2.09	2.730
12.50	1(e)	SLU	5	21	0.00	-110367.00	337.51	2207.34	-29.23	-2207.34	-353140.00	12250.10	-12643.10	281.25	2.52	3.200
12.50	1(e)	SLU	5	21	0.00	-110367.00	337.51	2207.34	-29.23	-2207.34	-353140.00	12250.10	-12643.10	281.25	2.52	3.200
15.26	1(e)	SLU	5	21	276.00	-108537.00	-369.84	-2170.74	-22.41	-2170.74	-353140.00	-12251.50	-12616.10	258.75	2.56	3.254
15.50	1(e)	SLU	6	22	0.00	-89662.40	462.29	1793.25	72.29	1793.25	-303890.00	9472.18	9206.75	82.27	2.45	3.389
15.50	1(e)	SLU	6	22	0.00	-89662.40	462.29	1793.25	72.29	1793.25	-289480.00	8822.66	8837.02	80.86	2.43	3.229
18.26	1(e)	SLU	6	22	276.00	-88137.50	198.34	1762.75	-144.87	-1762.75	-289480.00	8808.95	-8814.19	279.14	2.48	3.284
18.50	1(e)	SLU	7	22	0.00	-69327.70	1070.11	1386.55	239.27	1386.55	-289480.00	8606.50	8328.43	80.86	3.13	4.176
18.50	1(e)	SLU	7	22	0.00	-69327.70	1070.11	1386.55	239.27	1386.55	-289480.00	8606.50	8328.43	80.86	3.13	4.176
21.26	1(e)	SLU	7	22	276.00	-67802.80	801.33	1356.06	-258.82	-1356.06	-289480.00	8274.18	-8364.01	278.79	3.21	4.269
21.50	1(e)	SLU	8	22	0.00	-49179.80	1650.89	1650.89	265.84	983.60	-289480.00	11382.30	6757.56	77.34	3.82	5.886
21.50	1(e)	SLU	8	22	0.00	-49179.80	1650.89	1650.89	265.84	983.60	-289480.00	11382.30	6757.56	77.34	3.82	5.886
24.26	1(e)	SLU	8	22	276.00	-47654.90	694.50	953.10	-237.25	-953.10	-289480.00	7788.27	-7549.68	278.44	4.18	6.075
24.50	1(e)	SLU	9	22	0.00	-29372.90	1253.94	1253.94	357.24	587.46	-29372.90	11558.60	5621.61	75.94	4.78	9.282
24.50	1(e)	SLU	9	22	0.00	-29372.90	1253.94	1253.94	357.24	587.46	-29372.90	11558.60	5621.61	75.94	4.78	9.282
27.26	1(e)	SLU	9	22	276.00	-27848.00	-798.22	-798.22	-388.46	-556.96	-289480.00	-8728.62	-6105.45	260.86	5.38	10.395

Dati per verifiche di stabilità

Xg <m>	El <m>	l <sub>0</sub> <m>	λ	λ*
---	2	3.00	34.64	32.71
---	2	3.00	34.64	32.71
---	2	3.00	34.64	32.71

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy, s <daNm>	MRdz, s <daNm>	α <grad>	ε <sub>r</sub>	Sic.
3.50	1(e)	SLU	2	21	0.00	-173479.00	1357.59	3469.59	-600.05	-3469.59	-367550.00	12333.10	-12072.30	282.66	1.38	2.119
3.50	1(e)	SLU	2	21	0.00	-173479.00	1357.59	3469.59	-600.05	-3469.59	-353140.00	11251.10	-11102.60	281.95	1.30	2.036
6.26	1(e)	SLU	2	21	276.00	-171649.00	401.59	3432.99	469.40	3432.99	-353140.00	11294.00	11139.90	78.05	1.33	2.057

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>e</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.00	2	SLE	R	1	2	0.00	-139845.00	-464.62	-105.44	0.00	20.11	723.48
0.00	4	SLE	Q	1	2	0.00	-116402.00	-364.91	-54.39	0.00	20.11	599.80
0.00	2	SLE	R	1	2	0.00	-139845.00	-464.62	-105.44	0.00	20.11	723.48
0.00	4	SLE	Q	1	2	0.00	-116402.00	-364.91	-54.39	0.00	20.11	599.80
3.26	2	SLE	R	1	2	326.00	-137629.00	653.49	572.14	0.00	20.11	50.27
3.26	4	SLE	Q	1	2	326.00	-114185.00	511.25	525.21	0.00	20.11	41.70
3.50	2	SLE	R	2	21	0.00	-123691.00	-437.21	1013.88	0.00	20.11	60.11
3.50	4	SLE	Q	2	21	0.00	-102852.00	-333.09	874.26	0.00	20.11	49.84
3.50	2	SLE	R	2	21	0.00	-123691.00	-437.21	1013.88	0.00	16.09	61.69
3.50	4	SLE	Q	2	21	0.00	-102852.00	-333.09	874.26	0.00	16.09	51.14
6.26	2	SLE	R	2	21	276.00	-122284.00	346.54	318.47	0.00	16.09	57.77
6.26	4	SLE	Q	2	21	276.00	-101444.00	248.85	321.17	0.00	16.09	47.80
6.50	2	SLE	R	3	21	0.00	-108455.00	-268.98	745.59	0.00	16.09	52.58
6.50	4	SLE	Q	3	21	0.00	-90165.10	-168.92	653.93	0.00	16.09	43.36
6.50	2	SLE	R	3	21	0.00	-108455.00	-268.98	745.59	0.00	16.09	52.58
6.50	4	SLE	Q	3	21	0.00	-90165.10	-168.92	653.93	0.00	16.09	43.36
9.26	2	SLE	R	3	21	276.00	-107047.00	205.30	-132.23	0.00	16.09	49.19
9.26	4	SLE	Q	3	21	276.00	-88757.50	111.43	-83.43	0.00	16.09	40.18
9.50	2	SLE	R	4	21	0.00	-93403.10	-148.94	365.73	0.00	16.09	43.56
9.50	4	SLE	Q	4	21	0.00	-77590.40	-52.58	309.28	0.00	16.09	35.59
9.50	2	SLE	R	4	21	0.00	-93403.10	-148.94	365.73	0.00	16.09	43.56
9.50	4	SLE	Q	4	21	0.00	-77590.40	-52.58	309.28	0.00	16.09	35.59
12.26	2	SLE	R	4	21	276.00	-91995.50	94.38	-313.46	0.00	16.09	42.28
12.26	4	SLE	Q	4	21	276.00	-76182.80	4.35	-246.50	0.00	16.09	34.32
12.50	2	SLE	R	5	21	0.00	-78511.30	-47.57	258.57	0.00	16.09	35.76
12.50	4	SLE	Q	5	21	0.00	-65112.90	45.72	213.12	0.00	16.09	29.71
12.50	2	SLE	R	5	21	0.00	-78511.30	-47.57	258.57	0.00	16.09	35.76
12.50	4	SLE	Q	5	21	0.00	-65112.90	45.72	213.12	0.00	16.09	29.71
15.26	2	SLE	R	5	21	276.00	-77103.70	12.29	-257.28	0.00	16.09	34.83
15.26	4	SLE	Q	5	21	276.00	-63705.30	-78.55	-193.88	0.00	16.09	29.31
15.50	2	SLE	R	6	22	0.00	-63692.30	30.52	349.11	0.00	16.09	34.66
15.50	4	SLE	Q	6	22	0.00	-52682.70	91.36	297.02	0.00	16.09	29.53
15.50	2	SLE	R	6	22	0.00	-63692.30	30.52	349.11	0.00	12.06	35.81
15.50	4	SLE	Q	6	22	0.00	-52682.70	91.36	297.02	0.00	12.06	30.49
18.26	2	SLE	R	6	22	276.00	-62519.30	-80.83	156.49	0.00	12.06	34.95
18.26	4	SLE	Q	6	22	276.00	-51509.70	-136.81	159.24	0.00	12.06	29.82
18.50	2	SLE	R	7	22	0.00	-49155.20	145.40	791.64	0.00	12.06	31.51
18.50	4	SLE	Q	7	22	0.00	-40519.50	198.90	672.30	0.00	12.06	27.05
18.50	2	SLE	R	7	22	0.00	-49155.20	145.40	791.64	0.00	12.06	31.51
18.50	4	SLE	Q	7	22	0.00	-40519.50	198.90	672.30	0.00	12.06	27.05
21.26	2	SLE	R	7	22	276.00	-47982.20	-159.39	596.30	0.00	12.06	30.18
21.26	4	SLE	Q	7	22	276.00	-39346.50	-208.93	518.41	0.00	12.06	25.87
21.50	2	SLE	R	8	22	0.00	-34751.20	164.23	1215.05	0.00	12.06	25.98



Relazione di calcolo

21.50	4	SLE Q	8	22	0.00	-28450.20	218.47	1015.85	0.00	12.06	22.42	311.41
21.50	2	SLE R	8	22	0.00	-34751.20	164.23	1215.05	0.00	12.06	25.98	366.82
21.50	4	SLE Q	8	22	0.00	-28450.20	218.47	1015.85	0.00	12.06	22.42	311.41
24.26	2	SLE R	8	22	276.00	-33578.20	-144.66	517.40	0.00	12.06	21.99	314.75
24.26	4	SLE Q	8	22	276.00	-27277.20	-200.41	418.95	0.00	12.06	18.90	265.35
24.50	2	SLE R	9	22	0.00	-20583.50	229.66	925.39	0.00	12.06	17.97	244.75
24.50	4	SLE Q	9	22	0.00	-16553.10	283.17	734.50	0.00	12.06	15.65	207.84
24.50	2	SLE R	9	22	0.00	-20583.50	229.66	925.39	0.00	12.06	17.97	244.75
24.50	4	SLE Q	9	22	0.00	-16553.10	283.17	734.50	0.00	12.06	15.65	207.84
27.26	2	SLE R	9	22	276.00	-19410.50	-252.26	-578.21	0.00	12.06	16.08	217.94
27.26	4	SLE Q	9	22	276.00	-15380.10	-310.55	-481.04	0.00	12.06	14.23	187.02

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<m>	<m>						<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	478.33	2.50	12369.40	22712.00	12369.40	0.40	0.63	297.84	2.50	22236.70	24017.60	22236.70	25.860	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	478.33	2.50	12369.40	22916.70	12369.40	0.40	0.63	297.84	2.50	22236.70	24234.00	22236.70	25.860	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	478.33	2.50	12369.40	23488.40	12369.40	0.40	0.63	297.84	2.50	22236.70	24838.60	22236.70	25.860	
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	387.48	2.50	6634.02	7634.65	6634.02	0.30	0.63	346.38	1.64	10922.90	10922.90	10922.90	17.121	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	387.48	2.50	6634.02	7780.97	6634.02	0.30	0.63	346.38	1.66	11065.70	11065.70	11065.70	17.121	
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	387.48	2.50	6634.02	8082.24	6634.02	0.30	0.63	346.38	1.70	11354.00	11354.00	11354.00	17.121	
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	223.58	2.50	6634.02	14541.10	6634.02	0.30	0.63	432.45	2.45	16355.40	16355.40	16355.40	29.672	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	223.58	2.50	6634.02	14687.40	6634.02	0.30	0.63	432.45	2.47	16451.10	16451.10	16451.10	29.672	
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	223.58	2.50	6634.02	14988.70	6634.02	0.30	0.63	432.45	2.50	16646.40	16646.40	16646.40	29.672	
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	101.32	2.50	6634.02	21365.60	6634.02	0.30	0.63	335.62	2.50	16677.60	23696.40	16677.60	49.692	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	101.32	2.50	6634.02	21511.90	6634.02	0.30	0.63	335.62	2.50	16677.60	23858.70	16677.60	49.692	
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	101.32	2.50	6634.02	21813.10	6634.02	0.30	0.63	335.62	2.50	16677.60	24192.80	16677.60	49.692	
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	2.47	2.50	6634.02	28119.00	6634.02	0.30	0.63	256.29	2.50	16677.60	31186.60	16677.60	65.074	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	2.47	2.50	6634.02	28265.30	6634.02	0.30	0.63	256.29	2.50	16677.60	31348.90	16677.60	65.074	
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	2.47	2.50	6634.02	28566.60	6634.02	0.30	0.63	256.29	2.50	16677.60	31683.00	16677.60	65.074	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	78.68	2.50	5312.50	23238.10	5312.50	0.25	0.63	95.64	2.50	16677.60	26820.30	16677.60	67.519	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	78.68	2.50	5312.50	23355.20	5312.50	0.25	0.63	95.64	2.50	16677.60	26955.60	16677.60	67.519	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	78.68	2.50	5312.50	23596.50	5312.50	0.25	0.63	95.64	2.50	16677.60	27234.00	16677.60	67.519	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	180.47	2.50	5312.50	25601.70	5312.50	0.25	0.63	97.38	2.50	16677.60	29548.40	16677.60	29.438	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	180.47	2.50	5312.50	25601.70	5312.50	0.25	0.63	97.38	2.50	16677.60	29548.40	16677.60	29.438	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	180.47	2.50	5312.50	25601.70	5312.50	0.25	0.63	97.38	2.50	16677.60	29548.40	16677.60	29.438	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	182.28	2.50	5312.50	25601.70	5312.50	0.25	0.63	346.52	2.50	16677.60	29548.40	16677.60	29.145	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	182.28	2.50	5312.50	25601.70	5312.50	0.25	0.63	346.52	2.50	16677.60	29548.40	16677.60	29.145	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	182.28	2.50	5312.50	25601.70	5312.50	0.25	0.63	346.52	2.50	16677.60	29548.40	16677.60	29.145	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	270.18	2.50	5312.50	24145.90	5312.50	0.25	0.63	743.53	2.50	16677.60	27868.10	16677.60	19.663	
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	270.18	2.50	5312.50	24099.00	5312.50	0.25	0.63	743.53	2.50	16677.60	27814.00	16677.60	19.663	
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	270.18	2.50	5312.50	24002.50	5312.50	0.25	0.63	743.53	2.50	16677.60	27702.70	16677.60	19.663	

Pilastrata n. 34

Nodi: 34 334 534 734 934 1134 1334 1534 1734 1934

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
2R		40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
23R		30.00	50.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
24R		25.00	50.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
24R		25.00	50.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	2	0.00	-161579.00	-570.24	-3231.59	-1180.64	-3231.59	-451641.00	-20296.00	-19680.10	248.91	2.37	2.795
0.00	1(e)	SLU	1	2	0.00	-161579.00	-570.24	-3231.59	-1180.64	-3231.59	-451641.00	-20296.00	-19680.10	248.91	2.37	2.795
3.26	1(e)	SLU	1	2	326.00	-158698.00	1819.63	3173.95	2580.77	3173.95	-451641.00	20291.20	19633.30	68.91	2.42	2.846
9.50	1(e)	SLU	4	23	0.00	-104271.00	-432.56	-2085.41	-1929.05	-2085.41	-260510.00	-8696.96	-8995.43	247.50	1.78	2.498
9.50	1(e)	SLU	4	23	0.00	-104271.00	-432.56	-2085.41	-1929.05	-2085.41	-260510.00	-8696.96	-8995.43	247.50	1.78	2.498
12.26	1(e)	SLU	4	23	276.00	-102925.00	493.88	2058.50	1832.29	2058.50	-260510.00	8689.64	8994.80	67.50	1.82	2.531
12.50	1(e)	SLU	5	23	0.00	-85795.50	-440.27	-1715.91	-2018.57	-2018.57	-260510.00	-8060.70	-9161.56	248.91	2.27	3.036
12.50	1(e)	SLU	5	23	0.00	-85795.50	-440.27	-1715.91	-2018.57	-2018.57	-260510.00	-8060.70	-9161.56	248.91	2.27	3.036
15.26	1(e)	SLU	5	23	276.00	-84450.00	571.47	1689.00	2051.27	2051.27	-260510.00	7520.68	9422.42	70.31	2.32	3.085
18.50	1(e)	SLU	7	24	0.00	-49365.40	711.62	987.31	-1754.52	-1754.52	-49365.40	3634.78	-6496.21	280.19	3.28	3.698
18.50	1(e)	SLU	7	24	0.00	-49365.40	711.62	987.31	-1754.52	-1754.52	-49365.40	3634.78	-6496.21	280.19	3.28	3.698
21.26	1	SLU	7	24	276.00	-48244.10	986.31	1697.42	-1697.42	-1697.42	-48244.10	3781.71	6416.68	79.45	3.33	3.794
21.50	1	SLU	8	24	0.00	-31345.20	1816.98	1816.98	-1642.97	-1642.97	-31345.20	5653.63	-5008.62	286.17	4.09	3.083
21.50	1	SLU	8	24	0.00	-31345.20	1816.98	1816.98	-1642.97	-1642.97	-31345.20	5653.63	-5008.62	286.17	4.09	3.083
24.26	1	SLU	8	24	276.00	-30223.90	874.08	874.08	1479.12	1479.12	-30223.90	3147.92	5531.52	82.27	5.15	3.704
24.50	1	SLU	9	24	0.00	-13110.70	3493.72	3493.72	-2322.04	-2322.04	-13110.70	5765.94	-3842.31	288.28	5.48	1.652
24.50	1	SLU	9	24	0.00	-13110.70	3493.72	3493.72	-2322.04	-2322.04	-13110.70	5765.94	-3842.31	288.28	5.48	1.652
27.26	1	SLU	9	24	276.00	-11989.50	-4061.94	-4061.94	3065.89	3065.89	-11989.50	-5080.11	3902.05	104.06	6.06	1.259

Dati per verifiche di stabilità

Xg	El	l <sub>0</sub>	λ	λ*
$\langle m \rangle$		$\langle m \rangle$		
---	2	3.00	34.64	31.09
---	3	3.00	34.64	33.35
---	6	3.00	41.57	41.15

Xg	El	l <sub>0</sub>	λ	λ*
$\langle m \rangle$		$\langle m \rangle$		
---	2	3.00	34.64	31.09
---	3	3.00	34.64	33.35

Xg	El	l <sub>0</sub>	λ	λ*
$\langle m \rangle$		$\langle m \rangle$		
---	2	3.00	34.64	31.09
---	6	3.00	41.57	41.15

Xg	El	l <sub>0</sub>	λ	λ*
$\langle m \rangle$		$\langle m \rangle$		
---	3	3.00	34.64	33.35
---	6	3.00	41.57	41.15



Relazione di calcolo

3.50	1(e)	SLU	2	23	0.00	-141212.00	9.89	2824.24	-1719.82	-2824.24	-274919.00	7717.13	-8106.50	289.69	1.13	1.947
6.26	1(e)	SLU	2	23	276.00	-139866.00	1202.12	2797.33	1817.01	2797.33	-274919.00	7750.82	8145.75	70.31	1.16	1.966
6.50	1(e)	SLU	3	23	0.00	-122743.00	90.37	2454.86	-2015.34	-2454.86	-274919.00	8480.14	-8429.60	290.39	1.48	2.240
6.50	1(e)	SLU	3	23	0.00	-122743.00	90.37	2454.86	-2015.34	-2454.86	-260510.00	7643.30	-7959.83	292.50	1.39	2.122
9.26	1(e)	SLU	3	23	276.00	-121397.00	513.26	2427.95	1894.84	2427.95	-260510.00	7666.43	7993.49	67.50	1.41	2.146
15.50	1(e)	SLU	6	24	0.00	-67394.90	-300.81	-1347.90	-1495.04	-1495.04	-224296.00	-5484.70	-5884.56	255.23	2.31	3.328
15.50	1(e)	SLU	6	24	0.00	-67394.90	-300.81	-1347.90	-1495.04	-1495.04	-214164.00	-5017.89	-5357.29	255.23	2.32	3.178
18.26	1(e)	SLU	6	24	276.00	-66273.70	1027.96	1325.47	1568.54	1568.54	-214164.00	4749.23	5427.97	75.94	2.37	3.232

Stato limite d'esercizio - Verifiche tensionali

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.00	2	SLE R	1	2	0.00	-113775.00	-838.84	-394.36	0.00	16.09	43.68	638.25
0.00	4	SLE Q	1	2	0.00	-101968.00	-662.96	-476.38	0.00	16.09	39.05	571.47
0.00	2	SLE R	1	2	0.00	-113775.00	-838.84	-394.36	0.00	16.09	43.68	638.25
0.00	4	SLE Q	1	2	0.00	-101968.00	-662.96	-476.38	0.00	16.09	39.05	571.47
3.26	2	SLE R	1	2	326.00	-111558.00	1839.26	1297.92	0.00	16.09	50.42	716.70
3.26	4	SLE Q	1	2	326.00	-99751.10	1468.11	1258.71	0.00	16.09	44.49	634.43
3.50	2	SLE R	2	23	0.00	-99355.90	-1229.02	65.89	0.00	8.04	76.47	1076.68
3.50	4	SLE Q	2	23	0.00	-88759.50	-972.10	11.16	0.00	8.04	66.48	942.33
3.50	2	SLE R	2	23	0.00	-99355.90	-1229.02	65.89	0.00	16.09	71.48	1005.25
3.50	4	SLE Q	2	23	0.00	-88759.50	-972.10	11.16	0.00	16.09	62.12	879.52
6.26	2	SLE R	2	23	276.00	-98320.90	1300.40	845.78	0.00	16.09	76.74	1066.06
6.26	4	SLE Q	2	23	276.00	-87724.50	1017.05	827.97	0.00	16.09	67.31	940.14
6.50	2	SLE R	3	23	0.00	-86379.10	-1445.34	137.90	0.00	16.09	66.96	924.51
6.50	4	SLE Q	3	23	0.00	-76996.30	-1113.92	69.94	0.00	16.09	57.36	799.45
6.50	2	SLE R	3	23	0.00	-86379.10	-1445.34	137.90	0.00	12.06	68.80	951.95
6.50	4	SLE Q	3	23	0.00	-76996.30	-1113.92	69.94	0.00	12.06	58.97	823.63
9.26	2	SLE R	3	23	276.00	-85344.10	1360.82	326.64	0.00	12.06	68.53	948.67
9.26	4	SLE Q	3	23	276.00	-75961.30	1039.51	352.90	0.00	12.06	59.47	829.46
9.50	2	SLE R	4	23	0.00	-73392.00	-1388.12	-253.02	0.00	12.06	61.22	839.03
9.50	4	SLE Q	4	23	0.00	-65259.50	-1046.46	-280.49	0.00	12.06	52.68	728.69
9.50	2	SLE R	4	23	0.00	-73392.00	-1388.12	-253.02	0.00	12.06	61.22	839.03
9.50	4	SLE Q	4	23	0.00	-65259.50	-1046.46	-280.49	0.00	12.06	52.68	728.69
12.26	2	SLE R	4	23	276.00	-72357.00	1320.03	309.17	0.00	12.06	60.21	826.52
12.26	4	SLE Q	4	23	276.00	-64224.50	987.26	332.30	0.00	12.06	51.75	716.86
12.50	2	SLE R	5	23	0.00	-60397.10	-1455.53	-258.01	0.00	12.06	54.29	731.40
12.50	4	SLE Q	5	23	0.00	-53545.00	-1080.86	-283.34	0.00	12.06	46.12	628.43
12.50	2	SLE R	5	23	0.00	-60397.10	-1455.53	-258.01	0.00	12.06	54.29	731.40
12.50	4	SLE Q	5	23	0.00	-53545.00	-1080.86	-283.34	0.00	12.06	46.12	628.43
15.26	2	SLE R	5	23	276.00	-59362.10	1479.68	361.89	0.00	12.06	54.67	733.73
15.26	4	SLE Q	5	23	276.00	-52510.00	1094.63	381.40	0.00	12.06	46.34	629.05
15.50	2	SLE R	6	24	0.00	-47455.20	-1078.93	-158.30	0.00	12.06	52.16	678.84
15.50	4	SLE Q	6	24	0.00	-41879.00	-794.18	-186.52	0.00	12.06	43.81	579.39
15.50	2	SLE R	6	24	0.00	-47455.20	-1078.93	-158.30	0.00	9.24	53.79	702.21
15.50	4	SLE Q	6	24	0.00	-41879.00	-794.18	-186.52	0.00	9.24	45.18	599.11
18.26	2	SLE R	6	24	276.00	-46592.70	1132.40	697.47	0.00	9.24	58.58	756.69
18.26	4	SLE Q	6	24	276.00	-41016.50	831.07	660.48	0.00	9.24	49.15	644.25
18.50	2	SLE R	7	24	0.00	-34793.50	-1266.03	586.89	0.00	9.24	51.43	639.41
18.50	4	SLE Q	7	24	0.00	-30477.10	-925.26	452.27	0.00	9.24	41.41	524.21
18.50	2	SLE R	7	24	0.00	-34793.50	-1266.03	586.89	0.00	9.24	51.43	639.41
18.50	4	SLE Q	7	24	0.00	-30477.10	-925.26	452.27	0.00	9.24	41.41	524.21
21.26	2	SLE R	7	24	276.00	-33931.00	1224.73	664.85	0.00	9.24	50.77	631.50
21.26	4	SLE Q	7	24	276.00	-29614.60	892.47	619.34	0.00	9.24	41.64	526.73
21.50	2	SLE R	8	24	0.00	-22137.30	-1188.32	1396.74	1.54	7.70	51.64	608.86
21.50	4	SLE Q	8	24	0.00	-19094.10	-861.84	1135.08	1.54	7.70	39.52	476.79
21.50	2	SLE R	8	24	0.00	-22137.30	-1188.32	1396.74	1.54	7.70	51.64	608.86
21.50	4	SLE Q	8	24	0.00	-19094.10	-861.84	1135.08	1.54	7.70	39.52	476.79
24.26	2	SLE R	8	24	276.00	-21274.80	1073.68	578.41	1.54	7.70	39.31	470.27
24.26	4	SLE Q	8	24	276.00	-18231.60	777.39	517.79	0.00	9.24	30.90	377.36
24.50	2	SLE R	9	24	0.00	-9335.46	-1657.32	2621.91	6.16	3.08	103.18	1849.97
24.50	4	SLE Q	9	24	0.00	-7604.59	-1203.83	2130.53	6.16	3.08	78.14	1355.87
24.50	2	SLE R	9	24	0.00	-9335.46	-1657.32	2621.91	6.16	3.08	103.18	1849.97
24.50	4	SLE Q	9	24	0.00	-7604.59	-1203.83	2130.53	6.16	3.08	78.14	1355.87
27.26	2	SLE R	9	24	276.00	-8472.96	2170.64	-3005.57	6.16	3.08	131.86	2667.38
27.26	4	SLE Q	9	24	276.00	-6742.09	1580.27	-2541.52	6.16	3.08	102.36	2034.02

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.50	4	SLE Q	9	24	0.00	-7604.59	2130.53	-1203.83	39.00	204.00	0.50	14.00	170.62	1.54	101.85	1355.87	0.43	0.12
24.50	3	SLE F	9	24	0.00	-8047.73	2270.85	-1327.19	39.00	204.00	0.50	14.00	172.05	1.54	103.41	1495.68	0.44	0.13
24.50	4	SLE Q	9	24	0.00	-7604.59	2130.53	-1203.83	39.00	204.00	0.50	14.00	170.62	1.54	101.85	1355.87	0.43	0.12
24.50	3	SLE F	9	24	0.00	-8047.73	2270.85	-1327.19	39.00	204.00	0.50	14.00	172.05	1.54	103.41	1495.68	0.44	0.13
27.26	4	SLE Q	9	24	276.00	-6742.09	-2541.52	1580.27	39.00	204.00	0.50	14.00	182.09	1.54	114.45	2034.02	0.73	0.23
27.26	3	SLE F	9	24	276.00	-7185.22	-2674.22	1736.04	39.00	204.00	0.50	14.00	183.74	1.54	116.27	2205.93	0.68	0.21

Stato limite ultimo - Verifiche a taglio

X0 <mm>	X1 <mm>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <mm>	d <sub>y</sub> <mm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <mm>	d <sub>z</sub> <mm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
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Relazione di calcolo

0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	1153.81	2.50	12369.40	34411.80	12369.40	0.40	0.63	733.09	2.50	22236.70	36389.90	22236.70	10.720
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	1153.81	2.50	12369.40	34616.40	12369.40	0.40	0.63	733.09	2.50	22236.70	36606.30	22236.70	10.720
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	1153.81	2.50	12369.40	35188.20	12369.40	0.40	0.63	733.09	2.50	22236.70	37210.90	22236.70	10.720
3.50	4.00	ø6/15	2	21	SLU	0.50	0.25	1281.46	1.00	2653.61	1714.17	1714.17	0.30	0.45	431.96	1.00	4768.04	1848.03	1848.03	1.338
4.00	5.76	ø6/15	2	21	SLU	0.50	0.25	1281.46	1.00	2653.61	1828.89	1828.89	0.30	0.45	431.96	1.00	4768.04	1971.70	1971.70	1.427
5.76	6.26	ø6/15	2	21	SLU	0.50	0.25	1281.46	1.00	2653.61	2232.68	2232.68	0.30	0.45	431.96	1.00	4768.04	2407.03	2407.03	1.742
6.50	7.00	ø6/15	2	21	SLU	0.50	0.25	1416.73	2.50	6634.02	7176.64	6634.02	0.30	0.45	153.22	1.93	9178.69	9178.69	9178.69	4.683
7.00	8.76	ø6/15	2	21	SLU	0.50	0.25	1416.73	2.50	6634.02	7255.75	6634.02	0.30	0.45	153.22	1.94	9242.71	9242.71	9242.71	4.683
8.76	9.26	ø6/15	2	21	SLU	0.50	0.25	1416.73	2.50	6634.02	7534.23	6634.02	0.30	0.45	153.22	1.99	9464.62	9464.62	9464.62	4.683
9.50	10.00	ø6/15	2	21	SLU	0.50	0.25	1362.80	2.50	6634.02	13172.20	6634.02	0.30	0.45	335.67	2.50	11920.10	14200.70	11920.10	4.868
10.00	11.76	ø6/15	2	21	SLU	0.50	0.25	1362.80	2.50	6634.02	13251.30	6634.02	0.30	0.45	335.67	2.50	11920.10	14286.00	11920.10	4.868
11.76	12.26	ø6/15	2	21	SLU	0.50	0.25	1362.80	2.50	6634.02	13529.80	6634.02	0.30	0.45	335.67	2.50	11920.10	14586.30	11920.10	4.868
12.50	13.00	ø6/15	2	21	SLU	0.50	0.25	1474.58	2.50	6634.02	19168.60	6634.02	0.30	0.45	366.57	2.50	11920.10	20665.50	11920.10	4.499
13.00	14.76	ø6/15	2	21	SLU	0.50	0.25	1474.58	2.50	6634.02	19247.70	6634.02	0.30	0.45	366.57	2.50	11920.10	20750.70	11920.10	4.499
14.76	15.26	ø6/15	2	21	SLU	0.50	0.25	1474.58	2.50	6634.02	19526.20	6634.02	0.30	0.45	366.57	2.50	11920.10	21051.00	11920.10	4.499
15.50	16.00	ø6/15	2	21	SLU	0.50	0.20	1109.99	2.50	5312.50	16629.40	5312.50	0.25	0.45	481.44	2.50	11920.10	18656.30	11920.10	4.786
16.00	17.76	ø6/15	2	21	SLU	0.50	0.20	1109.99	2.50	5312.50	16692.70	5312.50	0.25	0.45	481.44	2.50	11920.10	18727.40	11920.10	4.786
17.76	18.26	ø6/15	2	21	SLU	0.50	0.20	1109.99	2.50	5312.50	16915.70	5312.50	0.25	0.45	481.44	2.50	11920.10	18977.60	11920.10	4.786
18.50	19.00	ø6/15	2	21	SLU	0.50	0.20	1250.70	2.50	5312.50	18824.80	5312.50	0.25	0.45	99.53	2.50	11920.10	21119.40	11920.10	4.248
19.00	20.76	ø6/15	2	21	SLU	0.50	0.20	1250.70	2.50	5312.50	18824.80	5312.50	0.25	0.45	99.53	2.50	11920.10	21119.40	11920.10	4.248
20.76	21.26	ø6/15	2	21	SLU	0.50	0.20	1250.70	2.50	5312.50	18824.80	5312.50	0.25	0.45	99.53	2.50	11920.10	21119.40	11920.10	4.248
21.50	22.00	ø6/15	2	21	SLU	0.50	0.20	1131.19	2.50	5312.50	18824.80	5312.50	0.25	0.45	341.63	2.50	11920.10	21119.40	11920.10	4.696
22.00	23.76	ø6/15	2	21	SLU	0.50	0.20	1131.19	2.50	5312.50	18824.80	5312.50	0.25	0.45	341.63	2.50	11920.10	21119.40	11920.10	4.696
23.76	24.26	ø6/15	2	21	SLU	0.50	0.20	1131.19	2.50	5312.50	18824.80	5312.50	0.25	0.45	341.63	2.50	11920.10	21119.40	11920.10	4.696
24.50	25.00	ø6/15	2	21	SLU	0.50	0.20	1952.15	2.50	5312.50	16695.50	5312.50	0.25	0.45	2737.56	2.50	11920.10	18730.50	11920.10	2.721
25.00	26.76	ø6/15	2	21	SLU	0.50	0.20	1952.15	2.50	5312.50	16670.20	5312.50	0.25	0.45	2737.56	2.50	11920.10	18702.10	11920.10	2.721
26.76	27.26	ø6/15	2	21	SLU	0.50	0.20	1952.15	2.50	5312.50	16581.00	5312.50	0.25	0.45	2737.56	2.50	11920.10	18602.00	11920.10	2.721

Pilastrata n. 41

Nodi: 41 341 541 741 941 1141 1341 1541 1741 1941

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
49	R	25.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
9	R	25.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>x</sub>	Sic.
12.50	1(e)	SLU	5	9	0.00	-39601.60	-193.76	-792.03	1335.85	1335.85	-39601.60	-2716.14	4541.12	105.47	2.68	3.407
12.50	1(e)	SLU	5	9	0.00	-39601.60	-193.76	-792.03	1335.85	1335.85	-39601.60	-2716.14	4541.12	105.47	2.68	3.407
15.26	1(e)	SLU	5	9	276.00	-38816.70	225.07	776.34	-1321.38	-1321.38	-38816.70	2714.79	-4526.84	285.47	2.72	3.444
15.50	1(e)	SLU	6	9	0.00	-31495.60	-127.21	-629.91	1341.60	1341.60	-31495.60	-2179.34	4602.28	102.66	3.22	3.436
15.50	1(e)	SLU	6	9	0.00	-31495.60	-127.21	629.91	1341.60	1341.60	-31495.60	1994.14	4295.29	74.53	3.38	3.195
18.26	1(e)	SLU	6	9	276.00	-30710.70	244.04	614.21	-1335.14	-1335.14	-30710.70	1985.89	-4272.60	285.47	3.44	3.206
18.50	1(e)	SLU	7	9	0.00	-23373.90	83.98	-467.48	1438.42	1438.42	-23373.90	-1319.99	4000.30	98.44	5.19	2.785
18.50	1(e)	SLU	7	9	0.00	-23373.90	83.98	-467.48	1438.42	1438.42	-23373.90	-1319.99	4000.30	98.44	5.19	2.785
21.26	1(e)	SLU	7	9	276.00	-22589.00	182.70	451.78	-1414.98	-1414.98	-22589.00	1327.53	-3944.37	278.44	5.31	2.802
21.50	1	SLU	8	9	0.00	-15305.10	403.87	403.87	1472.12	1472.12	-15305.10	991.60	3433.49	84.38	7.22	2.341
21.50	1	SLU	8	9	0.00	-15305.10	403.87	403.87	1472.12	1472.12	-15305.10	991.60	3433.49	84.38	7.22	2.341
24.26	1(e)	SLU	8	9	276.00	-14520.30	-43.91	290.40	-1374.18	-1374.18	-14520.30	754.13	-3380.09	274.22	7.75	2.466
24.50	1	SLU	9	9	0.00	-7267.29	661.14	661.14	1795.92	1795.92	-7267.29	979.05	2787.81	85.08	9.44	1.544
24.50	1	SLU	9	9	0.00	-7267.29	661.14	661.14	1795.92	1795.92	-7267.29	979.05	2787.81	85.08	9.44	1.544
27.26	1	SLU	9	9	276.00	-6482.41	-625.58	-625.58	-2052.42	-2052.42	-6482.41	-827.10	-2722.16	265.78	9.88	1.326

Dati per verifiche di stabilità

Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*	Xg <m>	El	l <sub>0</sub> <m>	λ	λ*
---	1	3.50	48.50	39.76	---	1	3.50	48.50	39.76	---	1	3.50	48.50	39.76	---	2	3.00	41.57	35.38
---	2	3.00	41.57	35.38	---	2	3.00	41.57	35.38	---	3	3.00	41.57	37.85	---	3	3.00	41.57	37.85
---	3	3.00	41.57	37.85	---	4	3.00	41.57	40.94	---	4	3.00	41.57	40.94	---	4	3.00	41.57	40.94

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy, s <daNm>	MRdz, s <daNm>	α <grad>	ε <sub>y</sub>	Sic.
0.00	1(e)	SLU	1	49	0.00	-72234.80	-259.36	-1444.70	654.08	1444.70	-225197.00	-5384.17	5312.08	104.06	2.18	3.118
0.00	1(e)	SLU	1	49	0.00	-72234.80	-259.36	-1444.70	654.08	1444.70	-225197.00	-5384.17	5312.08	104.06	2.18	3.118
3.26	1(e)	SLU	1	49	326.00	-70910.50	617.03	1418.21	-1134.89	-1418.21	-225197.00	5400.46	-5311.65	284.06	2.22	3.176
3.50	1(e)	SLU	2	9	0.00	-63670.80	-237.77	-1273.42	1205.39	1273.42	-170876.00	-3944.60	3967.67	116.72	1.65	2.684
3.50	1(e)	SLU	2	9	0.00	-63670.80	-237.77	-1273.42	1205.39	1273.42	-159844.00	-3463.67	3534.29	113.91	1.55	2.510
6.26	1(e)	SLU	2	9	276.00	-62885.90	385.15	1257.72	-1156.44	-1257.72	-159844.00	3470.99	-3537.78	293.91	1.58	2.542
6.50	1(e)	SLU	3	9	0.00	-55680.30	-241.55	-1113.61	1250.98	1250.98	-159844.00	-3319.89	3617.83	112.50	1.85	2.871
6.50	1(e)	SLU	3	9	0.00	-55680.30	-241.55	-1113.61	1250.98	1250.98	-159844.00	-3319.89	3617.83	112.50	1.85	2.871
9.26	1(e)	SLU	3	9	276.00	-54895.40	294.82	1097.91	-1226.89	-1226.89	-159844.00	3325.28	-3615.52	292.50	1.88	2.912
9.50	1(e)	SLU	4	9	0.00	-47652.60	-208.50	-953.05	1297.13	1297.13	-47652.60	-2759.25	3765.89	108.28	2.24	2.900
9.50	1(e)	SLU	4	9	0.00	-47652.60	-208.50	-953.05	1297.13	1297.13	-47652.60	-2759.25	3765.89	108.28	2.24	2.900
12.26	1(e)	SLU	4	9	276.00	-46867.70	235.98	937.35	-1264.98	-1264.98	-46867.70	2763.70	-3758.23	288.28	2.28	2.963



Relazione di calcolo

0.004	SLE Q	1	49	0.00	-46224.10	397.22	-182.48	0.00	12.31	40.38	564.65
3.262	SLE R	1	49	326.00	-50502.40	-792.66	472.91	0.00	12.31	52.35	700.86
3.264	SLE Q	1	49	326.00	-45205.40	-689.32	459.34	0.00	12.31	46.80	627.57
3.502	SLE R	2	9	0.00	-45367.80	839.71	-179.66	0.00	12.31	64.97	856.62
3.504	SLE Q	2	9	0.00	-40606.40	729.46	-183.85	0.00	12.31	58.00	765.86
3.502	SLE R	2	9	0.00	-45367.80	839.71	-179.66	0.00	9.24	68.01	896.19
3.504	SLE Q	2	9	0.00	-40606.40	729.46	-183.85	0.00	9.24	60.69	801.00
6.262	SLE R	2	9	276.00	-44764.00	-805.03	294.70	0.00	9.24	68.36	899.05
6.264	SLE Q	2	9	276.00	-40002.70	-698.38	287.50	0.00	9.24	60.95	802.73
6.502	SLE R	3	9	0.00	-39662.80	869.68	-185.84	0.00	9.24	63.20	819.74
6.504	SLE Q	3	9	0.00	-35445.30	750.64	-192.71	0.00	9.24	56.25	731.03
6.502	SLE R	3	9	0.00	-39662.80	869.68	-185.84	0.00	9.24	63.20	819.74
6.504	SLE Q	3	9	0.00	-35445.30	750.64	-192.71	0.00	9.24	56.25	731.03
9.262	SLE R	3	9	276.00	-39059.10	-852.56	228.01	0.00	9.24	62.85	814.11
9.264	SLE Q	3	9	276.00	-34841.60	-735.24	228.17	0.00	9.24	55.83	724.64
9.502	SLE R	4	9	0.00	-33936.70	900.26	-161.16	0.00	9.24	57.91	737.80
9.504	SLE Q	4	9	0.00	-30273.90	773.81	-166.47	0.00	9.24	51.30	655.32
9.502	SLE R	4	9	0.00	-33936.70	900.26	-161.16	0.00	9.24	57.91	737.80
9.504	SLE Q	4	9	0.00	-30273.90	773.81	-166.47	0.00	9.24	51.30	655.32
12.262	SLE R	4	9	276.00	-33332.90	-877.58	184.04	0.00	9.24	57.12	727.57
12.264	SLE Q	4	9	276.00	-29670.10	-753.54	186.62	0.00	9.24	50.53	645.18
12.502	SLE R	5	9	0.00	-28197.90	926.02	-150.60	0.00	9.24	52.71	657.00
12.504	SLE Q	5	9	0.00	-25098.10	794.19	-154.59	0.00	9.24	46.51	581.38
12.502	SLE R	5	9	0.00	-28197.90	926.02	-150.60	0.00	9.24	52.71	657.00
12.504	SLE Q	5	9	0.00	-25098.10	794.19	-154.59	0.00	9.24	46.51	581.38
15.262	SLE R	5	9	276.00	-27594.10	-916.12	175.62	0.00	9.24	52.27	650.09
15.264	SLE Q	5	9	276.00	-24494.40	-785.49	176.84	0.00	9.24	46.05	574.27
15.502	SLE R	6	9	0.00	-22423.40	928.24	-101.73	0.00	9.24	46.35	563.96
15.504	SLE Q	6	9	0.00	-19895.40	794.03	-109.06	0.00	9.24	40.67	496.62
15.502	SLE R	6	9	0.00	-22423.40	928.24	-101.73	0.00	6.16	47.49	580.82
15.504	SLE Q	6	9	0.00	-19895.40	794.03	-109.06	0.00	6.16	41.72	511.95
18.262	SLE R	6	9	276.00	-21819.60	-924.27	189.02	0.00	6.16	48.29	587.23
18.264	SLE Q	6	9	276.00	-19291.60	-790.79	184.90	0.00	6.16	42.33	516.20
18.502	SLE R	7	9	0.00	-16641.40	995.77	53.03	1.54	4.62	43.91	507.95
18.504	SLE Q	7	9	0.00	-14689.30	851.07	25.46	0.00	6.16	37.38	435.60
18.502	SLE R	7	9	0.00	-16641.40	995.77	53.03	1.54	4.62	43.91	507.95
18.504	SLE Q	7	9	0.00	-14689.30	851.07	25.46	0.00	6.16	37.38	435.60
21.262	SLE R	7	9	276.00	-16037.60	-979.55	143.61	1.54	4.62	44.94	516.36
21.264	SLE Q	7	9	276.00	-14085.60	-835.57	142.14	1.54	4.62	38.90	449.50
21.502	SLE R	8	9	0.00	-10901.80	1019.32	287.70	3.08	3.08	51.87	523.65
21.504	SLE Q	8	9	0.00	-9521.27	874.28	224.46	3.08	3.08	43.69	443.73
21.502	SLE R	8	9	0.00	-10901.80	1019.32	287.70	3.08	3.08	51.87	523.65
21.504	SLE Q	8	9	0.00	-9521.27	874.28	224.46	3.08	3.08	43.69	443.73
24.262	SLE R	8	9	276.00	-10298.10	-950.87	-25.23	3.08	3.08	41.53	417.19
24.264	SLE Q	8	9	276.00	-8917.52	-822.00	-6.30	3.08	3.08	35.47	356.21
24.502	SLE R	9	9	0.00	-5188.87	1247.59	470.79	3.08	3.08	77.95	1620.06
24.504	SLE Q	9	9	0.00	-4382.77	1035.00	368.80	3.08	3.08	63.74	1319.97
24.502	SLE R	9	9	0.00	-5188.87	1247.59	470.79	3.08	3.08	77.95	1620.06
24.504	SLE Q	9	9	0.00	-4382.77	1035.00	368.80	3.08	3.08	63.74	1319.97
27.262	SLE R	9	9	276.00	-4585.12	-1426.23	-441.88	3.08	3.08	86.69	2017.63
27.264	SLE Q	9	9	276.00	-3779.02	-1143.24	-338.82	3.08	3.08	68.78	1592.22

Stato limite d'esercizio - Verifiche a fessurazione

Xg	CC	TCC	El	Sez.	X	N	My	Mz	C	S	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
<mm>					<cm>	<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
24.504	SLE Q	9	9	0.00	-4382.77	368.80	1035.00	39.00	258.00	0.50	14.00	208.45	1.54	143.44	1319.97	0.38	0.14	
24.503	SLE F	9	9	0.00	-4587.90	398.12	1092.56	39.00	258.00	0.50	14.00	207.64	1.54	142.54	1404.20	0.41	0.14	
24.504	SLE Q	9	9	0.00	-4382.77	368.80	1035.00	39.00	258.00	0.50	14.00	208.45	1.54	143.44	1319.97	0.38	0.14	
24.503	SLE F	9	9	0.00	-4587.90	398.12	1092.56	39.00	258.00	0.50	14.00	207.64	1.54	142.54	1404.20	0.41	0.14	
27.264	SLE Q	9	9	276.00	-3779.02	-338.82	-1143.24	39.00	258.00	0.50	14.00	223.82	1.54	160.33	1592.22	0.46	0.18	
27.263	SLE F	9	9	276.00	-3984.15	-368.50	-1217.25	39.00	258.00	0.50	14.00	223.20	1.54	159.66	1705.85	0.50	0.19	

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<mm>	<mm>						<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.54	ø8/20	2	21	SLU	0.50	0.20	548.76	2.50	7083.33	15119.80	7083.33	0.25	0.45	268.83	2.50	15893.50	16962.80	15893.50	12.908	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.20	548.76	2.50	7083.33	15188.60	7083.33	0.25	0.45	268.83	2.50	15893.50	17040.00	15893.50	12.908	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.20	548.76	2.50	7083.33	15464.00	7083.33	0.25	0.45	268.83	2.50	15893.50	17348.90	15893.50	12.908	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.20	855.73	2.50	5312.50	6496.02	5312.50	0.25	0.30	225.69	2.31	7348.26	7348.26	7348.26	6.208	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.20	855.73	2.50	5312.50	6536.81	5312.50	0.25	0.30	225.69	2.32	7375.62	7375.62	7375.62	6.208	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.20	855.73	2.50	5312.50	6700.01	5312.50	0.25	0.30	225.69	2.35	7484.03	7484.03	7484.03	6.208	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.20	897.78	2.50	5312.50	8988.23	5312.50	0.25	0.30	194.33	2.50	7955.54	9614.28	7955.54	5.917	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.20	897.78	2.50	5312.50	9029.03	5312.50	0.25	0.30	194.34	2.50	7955.54	9657.92	7955.54	5.917	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.20	897.78	2.50	5312.50	9192.23	5312.50	0.25	0.30	194.34	2.50	7955.54	9832.49	7955.54	5.917	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.20	928.30	2.50	5312.50	11492.00	5312.50	0.25	0.30	161.04	2.50	7955.54	12292.50	7955.54	5.723	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.20	928.30	2.50	5312.50	11532.80	5312.50	0.25	0.30	161.04	2.50	7955.54	12336.10	7955.54	5.723	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.20	928.30	2.50	5312.50	11696.00	5312.50	0.25	0.30	161.04	2.50	7955.54	12510.70	7955.54	5.723	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.20	962.76	2.50	5312.50	13177.40	5312.50	0.25	0.30	151.75	2.50	7955.54	14095.20	7955.54	5.518	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.20	962.76	2.50	5312.50	13177.40	5312.50	0.25	0.30	151.75	2.50	7955.54	14095.20	7955.54	5.518	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.20	962.76	2.50	5312.50	13177.40	5312.50	0.25	0.30	151.75	2.50	7955.54	14095.20	7955.54	5.518	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.20	969.83	2.50	5312.50	13177.40	5312.50	0.25	0.30	134.51	2.50	7955.54	14095.20	7955.54	5.478	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.20	969.83	2.50	5312.50	13177.40	5312.50	0.25	0.30	134.51	2.50	7955.54	14095.20	7955.54	5.478	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.20	969.83	2.50	5312.50	13177.40	5312.50	0.25	0.30	134.51	2.50	7955.54	14095.20	7955.54	5.478	



Relazione di calcolo

18.50	18.96	ø6/15	2	21	SLU	0.35	0.20	1033.84	2.50	5312.50	13177.40	5312.50	0.25	0.30	35.77	2.50	7955.54	14095.20	7955.54	5.139
18.96	20.80	ø6/15	2	21	SLU	0.35	0.20	1033.84	2.50	5312.50	13177.40	5312.50	0.25	0.30	35.77	2.50	7955.54	14095.20	7955.54	5.139
20.80	21.26	ø6/15	2	21	SLU	0.35	0.20	1033.84	2.50	5312.50	13177.40	5312.50	0.25	0.30	35.77	2.50	7955.54	14095.20	7955.54	5.139
21.50	21.96	ø6/15	2	21	SLU	0.35	0.20	1031.27	2.50	5312.50	12451.30	5312.50	0.25	0.30	162.24	2.50	7955.54	13318.60	7955.54	5.151
21.96	23.80	ø6/15	2	21	SLU	0.35	0.20	1031.27	2.50	5312.50	12435.00	5312.50	0.25	0.30	162.24	2.50	7955.54	13301.10	7955.54	5.151
23.80	24.26	ø6/15	2	21	SLU	0.35	0.20	1031.27	2.50	5312.50	12369.70	5312.50	0.25	0.30	162.24	2.50	7955.54	13231.30	7955.54	5.151
24.50	24.96	ø6/15	2	21	SLU	0.35	0.20	1394.32	2.50	5312.50	11448.50	5312.50	0.25	0.30	466.20	2.50	7955.54	12246.00	7955.54	3.810
24.96	26.80	ø6/15	2	21	SLU	0.35	0.20	1394.32	2.50	5312.50	11432.20	5312.50	0.25	0.30	466.20	2.50	7955.54	12228.50	7955.54	3.810
26.80	27.26	ø6/15	2	21	SLU	0.35	0.20	1394.32	2.50	5312.50	11366.90	5312.50	0.25	0.30	466.20	2.50	7955.54	12158.70	7955.54	3.810

Pilastrata n. 42

Nodi: 42 342 542 742 942 1142 1342 1542 1742 1942

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
1R		40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>y</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-136242.00	130.42	2724.84	122.13	2724.84	-333837.00	13248.50	13203.00	56.25	1.96	2.450
0.00	1(e)	SLU	1	1	0.00	-136242.00	130.42	2724.84	122.13	2724.84	-333837.00	13248.50	13203.00	56.25	1.96	2.450
3.26	1(e)	SLU	1	1	326.00	-134123.00	198.81	2682.46	22.70	2682.46	-333837.00	13243.90	13200.50	56.25	2.00	2.489
3.50	1(e)	SLU	2	10	0.00	-119645.00	134.87	2392.90	-582.33	-2392.90	-246925.00	8108.25	-8194.19	322.03	1.38	2.064
3.50	1(e)	SLU	2	10	0.00	-119645.00	134.87	2392.90	-582.33	-2392.90	-235893.00	7524.42	-7663.65	319.22	1.28	1.972
6.26	1(e)	SLU	2	10	276.00	-118389.00	110.79	2367.78	425.58	2367.78	-235893.00	7554.99	7688.87	40.78	1.31	1.993
6.50	1(e)	SLU	3	10	0.00	-104160.00	55.37	2083.20	-203.49	-2083.20	-235893.00	7812.41	-7909.43	319.22	1.63	2.265
6.50	1(e)	SLU	3	10	0.00	-104160.00	55.37	2083.20	-203.49	-2083.20	-235893.00	7812.41	-7909.43	319.22	1.63	2.265
9.26	1(e)	SLU	3	10	276.00	-102904.00	54.70	2058.08	228.52	2058.08	-235893.00	7829.65	7924.23	40.78	1.65	2.292
9.50	1(e)	SLU	4	10	0.00	-88743.00	16.52	1774.86	-253.08	-1774.86	-235893.00	7864.40	-7900.46	319.22	2.01	2.658
9.50	1(e)	SLU	4	10	0.00	-88743.00	16.52	1774.86	-253.08	-1774.86	-235893.00	7864.40	-7900.46	319.22	2.01	2.658
12.26	1(e)	SLU	4	10	276.00	-87487.20	35.10	1749.74	212.46	1749.74	-235893.00	7860.27	7890.04	40.78	2.05	2.696
12.50	1(e)	SLU	5	10	0.00	-73411.00	4.83	1468.22	-232.32	-1468.22	-235893.00	7740.80	-7690.05	319.22	2.47	3.213
12.50	1(e)	SLU	5	10	0.00	-73411.00	4.83	1468.22	-232.32	-1468.22	-235893.00	7740.80	-7690.05	319.22	2.47	3.213
15.26	1(e)	SLU	5	10	276.00	-72155.20	48.78	1443.10	181.92	1443.10	-235893.00	7723.99	7665.28	40.78	2.51	3.269
15.50	1(e)	SLU	6	7	0.00	-58194.30	31.80	1163.89	-204.53	-1163.89	-185194.00	5410.85	-5260.62	303.75	2.24	3.182
15.50	1(e)	SLU	6	7	0.00	-58194.30	31.80	1163.89	-204.53	-1163.89	-174161.00	4932.33	-4984.58	306.56	2.19	2.993
18.26	1(e)	SLU	6	7	276.00	-57252.50	90.31	1145.05	164.37	1145.05	-174161.00	4922.13	4969.93	53.44	2.23	3.042
18.50	1(e)	SLU	7	7	0.00	-43441.50	111.18	868.83	-150.03	-868.83	-174161.00	4704.75	-4631.76	306.56	2.92	4.009
18.50	1(e)	SLU	7	7	0.00	-43441.50	111.18	868.83	-150.03	-868.83	-174161.00	4704.75	-4631.76	306.56	2.92	4.009
21.26	1(e)	SLU	7	7	276.00	-42499.70	146.50	849.99	136.12	849.99	-174161.00	4685.08	4603.39	53.44	2.97	4.098
21.50	1(e)	SLU	8	7	0.00	-28781.40	227.91	575.63	-42.71	-575.63	-174161.00	4167.61	-4244.96	305.16	3.89	6.051
21.50	1(e)	SLU	8	7	0.00	-28781.40	227.91	575.63	-42.71	-575.63	-174161.00	4167.61	-4244.96	305.16	3.89	6.051
24.26	1(e)	SLU	8	7	276.00	-27839.60	99.23	556.79	15.12	556.79	-174161.00	4137.08	4208.87	54.84	3.97	6.256
24.50	1(e)	SLU	9	7	0.00	-14277.70	234.24	285.55	-21.86	-285.55	-174161.00	3595.92	-3649.64	303.75	5.33	12.198
24.50	1(e)	SLU	9	7	0.00	-14277.70	234.24	285.55	-21.86	-285.55	-174161.00	3595.92	-3649.64	303.75	5.33	12.198
27.26	1(e)	SLU	9	7	276.00	-13335.90	-141.60	-266.72	124.76	266.72	-174161.00	-3581.08	3574.93	123.75	5.45	13.060

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
0.00	2	SLE R	1	1	0.00	-96171.70	85.87	110.52	0.00	12.31	45.18	674.05
0.00	4	SLE Q	1	1	0.00	-84754.70	70.81	98.42	0.00	12.31	39.79	593.72
0.00	2	SLE R	1	1	0.00	-96171.70	85.87	110.52	0.00	12.31	45.18	674.05
0.00	4	SLE Q	1	1	0.00	-84754.70	70.81	98.42	0.00	12.31	39.79	593.72
3.26	2	SLE R	1	1	326.00	-94541.70	16.09	154.50	0.00	12.31	44.20	660.32
3.26	4	SLE Q	1	1	326.00	-83124.70	19.66	139.91	0.00	12.31	38.92	581.26
3.50	2	SLE R	2	10	0.00	-84407.30	-412.91	105.29	0.00	12.31	58.13	854.67
3.50	4	SLE Q	2	10	0.00	-74227.90	-365.52	91.87	0.00	12.31	51.14	751.77
3.50	2	SLE R	2	10	0.00	-84407.30	-412.91	105.29	0.00	9.24	59.93	880.93
3.50	4	SLE Q	2	10	0.00	-74227.90	-365.52	91.87	0.00	9.24	52.72	774.88
6.26	2	SLE R	2	10	276.00	-83441.30	303.04	86.08	0.00	9.24	58.05	857.11
6.26	4	SLE Q	2	10	276.00	-73261.90	270.62	79.30	0.00	9.24	51.05	753.48
6.50	2	SLE R	3	10	0.00	-73481.90	-149.59	43.48	0.00	9.24	49.65	738.05
6.50	4	SLE Q	3	10	0.00	-64518.30	-146.56	36.49	0.00	9.24	43.72	649.51
6.50	2	SLE R	3	10	0.00	-73481.90	-149.59	43.48	0.00	9.24	49.65	738.05
6.50	4	SLE Q	3	10	0.00	-64518.30	-146.56	36.49	0.00	9.24	43.72	649.51
9.26	2	SLE R	3	10	276.00	-72515.90	167.48	43.88	0.00	9.24	49.20	730.66
9.26	4	SLE Q	3	10	276.00	-63552.30	161.28	42.52	0.00	9.24	43.30	642.42
9.50	2	SLE R	4	10	0.00	-62602.00	-186.79	14.25	0.00	9.24	42.63	632.69
9.50	4	SLE Q	4	10	0.00	-54845.70	-183.18	11.82	0.00	9.24	37.53	556.38
9.50	2	SLE R	4	10	0.00	-62602.00	-186.79	14.25	0.00	9.24	42.63	632.69
9.50	4	SLE Q	4	10	0.00	-54845.70	-183.18	11.82	0.00	9.24	37.53	556.38
12.26	2	SLE R	4	10	276.00	-61636.00	158.18	29.02	0.00	9.24	41.88	621.82
12.26	4	SLE Q	4	10	276.00	-53879.70	158.36	29.36	0.00	9.24	36.85	546.26
12.50	2	SLE R	5	10	0.00	-51779.90	-175.13	5.21	0.00	9.24	35.39	524.83
12.50	4	SLE Q	5	10	0.00	-45221.00	-176.94	4.34	0.00	9.24	31.13	460.98
12.50	2	SLE R	5	10	0.00	-51779.90	-175.13	5.21	0.00	9.24	35.39	524.83
12.50	4	SLE Q	5	10	0.00	-45221.00	-176.94	4.34	0.00	9.24	31.13	460.98
15.26	2	SLE R	5	10	276.00	-50813.90	140.37	38.39	0.00	9.24	34.78	515.43



Relazione di calcolo

15.26	4	SLE Q	5	10	276.00	-44255.00	148.93	37.11	0.00	9.24	30.58	452.28
15.50	2	SLE R	6	7	0.00	-41036.90	-153.58	24.16	0.00	9.24	37.45	548.49
15.50	4	SLE Q	6	7	0.00	-35662.00	-151.31	20.75	0.00	9.24	32.84	479.75
15.50	2	SLE R	6	7	0.00	-41036.90	-153.58	24.16	0.00	6.16	38.86	569.66
15.50	4	SLE Q	6	7	0.00	-35662.00	-151.31	20.75	0.00	6.16	34.07	498.14
18.26	2	SLE R	6	7	276.00	-40312.40	125.94	68.29	0.00	6.16	38.39	562.25
18.26	4	SLE Q	6	7	276.00	-34937.50	129.27	61.30	0.00	6.16	33.64	491.16
18.50	2	SLE R	7	7	0.00	-30640.90	-117.82	81.81	0.00	6.16	29.98	435.96
18.50	4	SLE Q	7	7	0.00	-26432.70	-123.11	69.12	0.00	6.16	26.21	379.63
18.50	2	SLE R	7	7	0.00	-30640.90	-117.82	81.81	0.00	6.16	29.98	435.96
18.50	4	SLE Q	7	7	0.00	-26432.70	-123.11	69.12	0.00	6.16	26.21	379.63
21.26	2	SLE R	7	7	276.00	-29916.40	107.70	108.89	0.00	6.16	29.56	428.95
21.26	4	SLE Q	7	7	276.00	-25708.20	113.14	93.91	0.00	6.16	25.76	372.28
21.50	2	SLE R	8	7	0.00	-20309.60	-42.41	166.66	0.00	6.16	20.88	300.45
21.50	4	SLE Q	8	7	0.00	-17259.80	-65.01	139.34	0.00	6.16	18.20	260.06
21.50	2	SLE R	8	7	0.00	-20309.60	-42.41	166.66	0.00	6.16	20.88	300.45
21.50	4	SLE Q	8	7	0.00	-17259.80	-65.01	139.34	0.00	6.16	18.20	260.06
24.26	2	SLE R	8	7	276.00	-19585.10	23.25	73.77	0.00	6.16	18.59	272.90
24.26	4	SLE Q	8	7	276.00	-16535.30	52.82	63.94	0.00	6.16	16.28	236.50
24.50	2	SLE R	9	7	0.00	-10087.40	-25.20	171.20	0.00	6.16	11.70	163.91
24.50	4	SLE Q	9	7	0.00	-8168.22	-35.50	144.10	0.00	6.16	9.81	136.25
24.50	2	SLE R	9	7	0.00	-10087.40	-25.20	171.20	0.00	6.16	11.70	163.91
24.50	4	SLE Q	9	7	0.00	-8168.22	-35.50	144.10	0.00	6.16	9.81	136.25
27.26	2	SLE R	9	7	276.00	-9362.90	98.90	-101.03	0.00	6.16	11.31	156.28
27.26	4	SLE Q	9	7	276.00	-7443.72	85.83	-79.85	0.00	6.16	9.11	125.44

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <m>	d <sub>y</sub> <m>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <m>	d <sub>z</sub> <m>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	30.50	2.50	12369.40	19368.20	12369.40	0.40	0.45	20.98	2.50	15893.50	19908.90	15893.50	>100	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	30.50	2.50	12369.40	19488.40	12369.40	0.40	0.45	20.98	2.50	15893.50	20032.50	15893.50	>100	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	30.50	2.50	12369.40	19969.30	12369.40	0.40	0.45	20.98	2.50	15893.50	20526.80	15893.50	>100	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	365.19	1.77	6572.84	6572.84	6572.84	0.40	0.30	8.72	1.93	6144.58	6144.58	6144.58	17.999	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	365.19	1.79	6630.92	6630.92	6630.92	0.40	0.30	8.72	1.95	6196.80	6196.80	6196.80	18.158	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	365.19	1.85	6858.27	6858.27	6858.27	0.40	0.30	8.72	2.01	6401.39	6401.39	6401.39	18.780	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	156.52	2.50	9277.05	10565.40	9277.05	0.40	0.30	0.24	2.50	7955.54	10354.70	7955.54	59.270	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	156.52	2.50	9277.05	10636.70	9277.05	0.40	0.30	0.24	2.50	7955.54	10424.50	7955.54	59.270	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	156.52	2.50	9277.05	10921.70	9277.05	0.40	0.30	0.24	2.50	7955.54	10703.80	7955.54	59.270	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	168.67	2.50	9277.05	15813.50	9277.05	0.40	0.30	6.73	2.50	7955.54	15498.10	7955.54	55.001	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	168.67	2.50	9277.05	15884.70	9277.05	0.40	0.30	6.73	2.50	7955.54	15567.90	7955.54	55.001	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	168.67	2.50	9277.05	16169.70	9277.05	0.40	0.30	6.73	2.50	7955.54	15847.20	7955.54	55.001	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	150.09	2.50	9277.05	21032.60	9277.05	0.40	0.30	15.92	2.50	7955.54	20613.20	7955.54	61.811	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	150.09	2.50	9277.05	21103.90	9277.05	0.40	0.30	15.92	2.50	7955.54	20683.00	7955.54	61.811	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	150.09	2.50	9277.05	21388.90	9277.05	0.40	0.30	15.92	2.50	7955.54	20962.30	7955.54	61.811	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	133.66	2.50	6634.02	14022.50	6634.02	0.30	0.30	21.20	2.50	7955.54	14413.60	7955.54	49.633	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	133.66	2.50	6634.02	14073.50	6634.02	0.30	0.30	21.20	2.50	7955.54	14466.00	7955.54	49.633	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	133.66	2.50	6634.02	14277.30	6634.02	0.30	0.30	21.20	2.50	7955.54	14675.50	7955.54	49.633	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	103.68	2.50	6634.02	16455.30	6634.02	0.30	0.30	12.80	2.50	7955.54	16914.20	7955.54	63.988	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	103.68	2.50	6634.02	16455.30	6634.02	0.30	0.30	12.80	2.50	7955.54	16914.20	7955.54	63.988	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	103.68	2.50	6634.02	16455.30	6634.02	0.30	0.30	12.80	2.50	7955.54	16914.20	7955.54	63.988	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	20.95	2.50	6634.02	16455.30	6634.02	0.30	0.30	46.62	2.50	7955.54	16914.20	7955.54	>100	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	20.95	2.50	6634.02	16455.30	6634.02	0.30	0.30	46.62	2.50	7955.54	16914.20	7955.54	>100	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	20.95	2.50	6634.02	16455.30	6634.02	0.30	0.30	46.62	2.50	7955.54	16914.20	7955.54	>100	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	53.12	2.50	6634.02	15017.90	6634.02	0.30	0.30	136.17	2.50	7955.54	15436.70	7955.54	58.422	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	53.12	2.50	6634.02	14997.50	6634.02	0.30	0.30	136.17	2.50	7955.54	15415.80	7955.54	58.422	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	53.12	2.50	6634.02	14916.00	6634.02	0.30	0.30	136.17	2.50	7955.54	15332.00	7955.54	58.422	

Pilastrata n. 43

Nodi: 43 343 543 743 943 1143 1343 1543 1743 1943

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1	R	40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>y</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-131730.00	394.56	2634.60	212.66	2634.60	-333837.00	13237.60	13195.70	56.25	2.05	2.534
0.00	1(e)	SLU	1	1	0.00	-131730.00	394.56	2634.60	212.66	2634.60	-333837.00	13237.60	13195.70	56.25	2.05	2.534
3.26	1(e)	SLU	1	1	326.00	-129611.00	146.55	2592.22	-142.38	-2592.22	-333837.00	13228.90	-13182.70	303.75	2.09	2.576
3.50	1(e)	SLU	2	10	0.00	-116105.00	170.20	2322.10	-471.80	-2322.10	-246925.00	8185.69	-8255.53	322.03	1.45	2.127
3.50	1(e)	SLU	2	10	0.00	-116105.00	170.20	2322.10	-471.80	-2322.10	-235893.00	7609.83	-7734.03	319.22	1.36	2.032
6.26	1(e)	SLU	2	10	276.00	-114849.00	27.16	2296.99	386.91	2296.99	-235893.00	7638.42	7756.95	40.78	1.39	2.054
6.50	1(e)	SLU	3	10	0.00	-101403.00	65.66	2028.06	-240.42	-2028.06	-235893.00	7849.85	-7941.52	319.22	1.69	2.326
6.50	1(e)	SLU	3	10	0.00	-101403.00	65.66	2028.06	-240.42	-2028.06	-235893.00	7849.85	-7941.52	319.22	1.69	2.326
9.26	1(e)	SLU	3	10	276.00	-100147.00	13.61	2002.95	288.55	2002.95	-235893.00	7864.12	7952.84	40.78	1.72	2.355
9.50	1(e)	SLU	4	10	0.00	-86761.20	23.35	1735.22	-376.03	-1735.22	-235893.00	7855.81	-7881.50	319.22	2.07	2.719
9.50	1(e)	SLU	4	10	0.00	-86761.20	23.35	1735.22	-376.03	-1735.22	-235893.00	7855.81	-7881.50	319.22	2.07	2.719
12.26	1(e)	SLU	4	10	276.00	-85505.40	7.58	1710.11	359.33	1710.11	-235893.00	7848.05	7866.77	40.78	2.11	2.759
12.50	1(e)	SLU	5	10	0.00	-72148.30	4.85	1442.96	-430.12	-1442.96	-235893.00	7723.84	-7665.08	319.22	2.51	3.270
12.50	1(e)	SLU	5	10	0.00	-72148.30	4.85	1442.96	-430.12	-1442.96	-235893.00	7723.84	-7665.08	319.22	2.51	3.270
15.26	1(e)	SLU	5	10	276.00	-70892.40	12.01	1417.85	391.54	1417.85	-235893.00	7706.76	7640.11	40.78	2.55	3.327
15.50	1(e)	SLU	6	7	0.00	-57410.80	-5.65	-1148.22	-350.35	-1148.22	-185194.00	-5409.19	-5247.96	236.25	2.27	3.226
15.50	1(e)	SLU	6	7	0.00	-57410.80	-5.65	-1148.22	-350.35	-1148.22	-174161.00	-4923.85	-4972.40	233.44	2.22	3.034



Relazione di calcolo

18.26	1(e)	SLU	6	7	276.00	-56469.00	26.84	1129.38	341.80	1129.38	-174161.00	4913.03	4956.26	53.44	2.26	3.084
18.50	1(e)	SLU	7	7	0.00	-42898.90	9.09	857.98	-389.23	-857.98	-174161.00	4693.42	-4615.40	306.56	2.95	4.060
18.50	1(e)	SLU	7	7	0.00	-42898.90	9.09	857.98	-389.23	-857.98	-174161.00	4693.42	-4615.40	306.56	2.95	4.060
21.26	1(e)	SLU	7	7	276.00	-41957.10	53.91	839.14	384.34	839.14	-174161.00	4673.78	4587.10	53.44	3.00	4.151
21.50	1(e)	SLU	8	7	0.00	-28406.30	21.89	568.12	-380.82	-568.12	-174161.00	4155.48	-4230.63	305.16	3.92	6.131
21.50	1(e)	SLU	8	7	0.00	-28406.30	21.89	568.12	-380.82	-568.12	-174161.00	4155.48	-4230.63	305.16	3.92	6.131
24.26	1(e)	SLU	8	7	276.00	-27464.40	62.91	549.29	392.26	549.29	-174161.00	4124.84	4194.39	54.84	4.00	6.341
24.50	1(e)	SLU	9	7	0.00	-13895.00	56.61	277.90	-334.81	-334.81	-13895.00	3152.36	-3795.71	296.72	5.80	11.339
24.50	1(e)	SLU	9	7	0.00	-13895.00	56.61	277.90	-334.81	-334.81	-13895.00	3152.36	-3795.71	296.72	5.80	11.339
27.26	1(e)	SLU	9	7	276.00	-12953.20	40.72	259.06	334.98	334.98	-12953.20	2875.95	3808.20	67.50	6.34	11.269

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>s</sub> <daN/cmq>
0.00	2	SLE R	1	1	0.00	-92898.80	149.79	304.60	0.00	12.31	45.13	669.03
0.00	4	SLE Q	1	1	0.00	-81446.30	125.96	272.48	0.00	12.31	39.56	586.49
0.00	2	SLE R	1	1	0.00	-92898.80	149.79	304.60	0.00	12.31	45.13	669.03
0.00	4	SLE Q	1	1	0.00	-81446.30	125.96	272.48	0.00	12.31	39.56	586.49
3.26	2	SLE R	1	1	326.00	-91268.80	-100.33	113.43	0.00	12.31	43.04	641.69
3.26	4	SLE Q	1	1	326.00	-79816.30	-80.70	98.40	0.00	12.31	37.59	560.58
3.50	2	SLE R	2	10	0.00	-81818.20	-334.28	128.85	0.00	12.31	56.03	824.64
3.50	4	SLE Q	2	10	0.00	-71529.60	-301.17	106.69	0.00	12.31	49.01	721.18
3.50	2	SLE R	2	10	0.00	-81818.20	-334.28	128.85	0.00	9.24	57.74	849.73
3.50	4	SLE Q	2	10	0.00	-71529.60	-301.17	106.69	0.00	9.24	50.50	743.17
6.26	2	SLE R	2	10	276.00	-80852.20	274.31	26.49	0.00	9.24	55.46	821.74
6.26	4	SLE Q	2	10	276.00	-70563.60	252.20	32.18	0.00	9.24	48.62	719.64
6.50	2	SLE R	3	10	0.00	-71448.00	-172.84	50.62	0.00	9.24	48.63	721.62
6.50	4	SLE Q	3	10	0.00	-62336.40	-177.56	40.96	0.00	9.24	42.65	632.19
6.50	2	SLE R	3	10	0.00	-71448.00	-172.84	50.62	0.00	9.24	48.63	721.62
6.50	4	SLE Q	3	10	0.00	-62336.40	-177.56	40.96	0.00	9.24	42.65	632.19
9.26	2	SLE R	3	10	276.00	-70482.00	206.59	14.91	0.00	9.24	47.95	711.78
9.26	4	SLE Q	3	10	276.00	-61370.40	206.82	20.42	0.00	9.24	42.09	623.62
9.50	2	SLE R	4	10	0.00	-61120.90	-269.33	18.41	0.00	9.24	42.50	627.87
9.50	4	SLE Q	4	10	0.00	-53189.60	-268.93	11.60	0.00	9.24	37.27	549.71
9.50	2	SLE R	4	10	0.00	-61120.90	-269.33	18.41	0.00	9.24	42.50	627.87
9.50	4	SLE Q	4	10	0.00	-53189.60	-268.93	11.60	0.00	9.24	37.27	549.71
12.26	2	SLE R	4	10	276.00	-60154.90	257.44	10.17	0.00	9.24	41.67	616.18
12.26	4	SLE Q	4	10	276.00	-52223.60	259.12	16.51	0.00	9.24	36.60	539.78
12.50	2	SLE R	5	10	0.00	-50814.70	-308.75	4.60	0.00	9.24	36.04	530.15
12.50	4	SLE Q	5	10	0.00	-44068.30	-310.36	-0.16	0.00	9.24	31.62	464.04
12.50	2	SLE R	5	10	0.00	-50814.70	-308.75	4.60	0.00	9.24	36.04	530.15
12.50	4	SLE Q	5	10	0.00	-44068.30	-310.36	-0.16	0.00	9.24	31.62	464.04
15.26	2	SLE R	5	10	276.00	-49848.70	281.42	12.98	0.00	9.24	35.24	518.68
15.26	4	SLE Q	5	10	276.00	-43102.30	289.32	19.31	0.00	9.24	30.99	454.52
15.50	2	SLE R	6	7	0.00	-40421.60	-251.92	-3.88	0.00	9.24	38.32	555.00
15.50	4	SLE Q	6	7	0.00	-34872.40	-247.03	-8.04	0.00	9.24	33.62	484.73
15.50	2	SLE R	6	7	0.00	-40421.60	-251.92	-3.88	0.00	6.16	39.70	575.66
15.50	4	SLE Q	6	7	0.00	-34872.40	-247.03	-8.04	0.00	6.16	34.82	502.59
18.26	2	SLE R	6	7	276.00	-39697.10	245.89	22.95	0.00	6.16	39.23	568.10
18.26	4	SLE Q	6	7	276.00	-34147.90	245.12	26.61	0.00	6.16	34.42	495.68
18.50	2	SLE R	7	7	0.00	-30211.00	-280.31	5.93	0.00	6.16	31.27	446.90
18.50	4	SLE Q	7	7	0.00	-25875.40	-279.27	-1.51	0.00	6.16	27.39	389.10
18.50	2	SLE R	7	7	0.00	-30211.00	-280.31	5.93	0.00	6.16	31.27	446.90
18.50	4	SLE Q	7	7	0.00	-25875.40	-279.27	-1.51	0.00	6.16	27.39	389.10
21.26	2	SLE R	7	7	276.00	-29486.50	276.66	42.32	0.00	6.16	31.09	442.50
21.26	4	SLE Q	7	7	276.00	-25150.90	275.45	42.67	0.00	6.16	27.28	385.41
21.50	2	SLE R	8	7	0.00	-20013.70	-274.24	14.72	0.00	6.16	22.37	313.33
21.50	4	SLE Q	8	7	0.00	-16890.70	-275.18	5.12	0.00	6.16	19.51	270.97
21.50	2	SLE R	8	7	0.00	-20013.70	-274.24	14.72	0.00	6.16	22.37	313.33
21.50	4	SLE Q	8	7	0.00	-16890.70	-275.18	5.12	0.00	6.16	19.51	270.97
24.26	2	SLE R	8	7	276.00	-19289.20	282.60	49.30	0.00	6.16	22.37	310.74
24.26	4	SLE Q	8	7	276.00	-16166.20	279.80	50.31	0.00	6.16	19.60	269.40
24.50	2	SLE R	9	7	0.00	-9803.34	-238.30	40.93	0.00	6.16	13.19	177.08
24.50	4	SLE Q	9	7	0.00	-7899.91	-247.00	30.61	0.00	6.16	11.53	151.99
24.50	2	SLE R	9	7	0.00	-9803.34	-238.30	40.93	0.00	6.16	13.19	177.08
24.50	4	SLE Q	9	7	0.00	-7899.91	-247.00	30.61	0.00	6.16	11.53	151.99
27.26	2	SLE R	9	7	276.00	-9078.84	239.12	33.83	0.00	6.16	12.47	166.59
27.26	4	SLE Q	9	7	276.00	-7175.40	258.72	41.97	0.00	6.16	11.25	146.33

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <cm>	d <sub>y</sub> <cm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <cm>	d <sub>z</sub> <cm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	108.91	2.50	12369.40	20904.10	12369.40	0.40	0.45	76.07	2.50	15893.50	21487.80	15893.50	>100	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	108.91	2.50	12369.40	21024.30	12369.40	0.40	0.45	76.07	2.50	15893.50	21611.40	15893.50	>100	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	108.91	2.50	12369.40	21505.20	12369.40	0.40	0.45	76.07	2.50	15893.50	22105.70	15893.50	>100	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	311.13	2.02	7494.62	7494.61	7494.61	0.40	0.30	51.83	2.19	6975.24	6975.24	6975.24	24.088	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	311.13	2.03	7545.59	7545.59	7545.59	0.40	0.30	51.83	2.21	7021.28	7021.28	7021.28	24.252	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	311.13	2.09	7746.15	7746.15	7746.15	0.40	0.30	51.83	2.26	7202.49	7202.49	7202.49	24.897	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	191.65	2.50	9277.05	11503.80	9277.05	0.40	0.30	18.86	2.50	7955.54	11274.40	7955.54	48.405	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	191.66	2.50	9277.05	11575.10	9277.05	0.40	0.30	18.86	2.50	7955.54	11344.20	7955.54	48.405	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	191.66	2.50	9277.05	11860.10	9277.05	0.40	0.30	18.86	2.50	7955.54	11623.50	7955.54	48.405	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	266.43	2.50	9277.05	16488.10	9277.05	0.40	0.30	5.71	2.50	7955.54	16159.30	7955.54	34.819	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	266.43	2.50	9277.05	16559.40	9277.05	0.40	0.30	5.71	2.50	7955.54	16229.10	7955.54	34.819	



Relazione di calcolo

11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	266.43	2.50	9277.05	16844.30	9277.05	0.40	0.30	5.71	2.50	7955.54	16508.40	7955.54	34.819
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	297.70	2.50	9277.05	21462.50	9277.05	0.40	0.30	2.59	2.50	7955.54	21034.40	7955.54	31.162
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	297.70	2.50	9277.05	21533.70	9277.05	0.40	0.30	2.59	2.50	7955.54	21104.30	7955.54	31.162
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	297.70	2.50	9277.05	21818.70	9277.05	0.40	0.30	2.59	2.50	7955.54	21383.60	7955.54	31.162
15.50	15.96	ø6/15	2	21	SLU	0.35	0.35	250.78	2.50	6634.02	14276.80	6634.02	0.30	0.30	11.77	2.50	7955.54	14675.00	7955.54	26.454
15.96	17.80	ø6/15	2	21	SLU	0.35	0.35	250.78	2.50	6634.02	14327.80	6634.02	0.30	0.30	11.77	2.50	7955.54	14727.40	7955.54	26.454
17.80	18.26	ø6/15	2	21	SLU	0.35	0.35	250.78	2.50	6634.02	14531.60	6634.02	0.30	0.30	11.77	2.50	7955.54	14936.90	7955.54	26.454
18.50	18.96	ø6/15	2	21	SLU	0.35	0.35	280.28	2.50	6634.02	16455.30	6634.02	0.30	0.30	16.24	2.50	7955.54	16914.20	7955.54	23.669
18.96	20.80	ø6/15	2	21	SLU	0.35	0.35	280.28	2.50	6634.02	16455.30	6634.02	0.30	0.30	16.24	2.50	7955.54	16914.20	7955.54	23.669
20.80	21.26	ø6/15	2	21	SLU	0.35	0.35	280.28	2.50	6634.02	16455.30	6634.02	0.30	0.30	16.24	2.50	7955.54	16914.20	7955.54	23.669
21.50	21.96	ø6/15	2	21	SLU	0.35	0.35	280.10	2.50	6634.02	16455.30	6634.02	0.30	0.30	14.86	2.50	7955.54	16914.20	7955.54	23.684
21.96	23.80	ø6/15	2	21	SLU	0.35	0.35	280.10	2.50	6634.02	16455.30	6634.02	0.30	0.30	14.86	2.50	7955.54	16914.20	7955.54	23.684
23.80	24.26	ø6/15	2	21	SLU	0.35	0.35	280.10	2.50	6634.02	16455.30	6634.02	0.30	0.30	14.86	2.50	7955.54	16914.20	7955.54	23.684
24.50	24.96	ø6/15	2	21	SLU	0.35	0.35	242.68	2.50	6634.02	14968.20	6634.02	0.30	0.30	5.76	2.50	7955.54	15386.60	7955.54	27.337
24.96	26.80	ø6/15	2	21	SLU	0.35	0.35	242.68	2.50	6634.02	14947.80	6634.02	0.30	0.30	5.76	2.50	7955.54	15364.70	7955.54	27.337
26.80	27.26	ø6/15	2	21	SLU	0.35	0.35	242.68	2.50	6634.02	14866.30	6634.02	0.30	0.30	5.76	2.50	7955.54	15280.90	7955.54	27.337

Pilastrata n. 44

Nodi: 44 -7162 244 -7157 344 444 544 644 744 844 944 1044 1144 1244 1344 1444 1544 1644 1744 1844 1944

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
1	R	40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
1	R	40.00	50.00	3.00	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-59439.60	485.82	1188.79	80.31	1188.79	-333837.00	11510.80	11295.40	57.66	4.01	5.616
0.00	1(e)	SLU	1	1	0.00	-59439.60	485.82	1188.79	80.31	1188.79	-333837.00	11510.80	11295.40	57.66	4.01	5.616
1.00	1(e)	SLU	1	1	100.00	-58789.60	967.48	1175.79	-111.10	-1175.79	-333837.00	11479.80	-11256.30	302.34	4.04	5.679
1.00	1(e)	SLU	2	1	0.00	-66682.90	1035.65	1333.66	-249.59	-1333.66	-333837.00	11844.50	-11723.00	302.34	3.72	5.006
1.35	1(e)	SLU	2	1	35.00	-66455.40	1241.34	1329.11	-78.02	-1329.11	-333837.00	11835.10	-11710.00	302.34	3.73	5.023
2.00	1(e)	SLU	3	1	0.00	-75417.90	-1011.19	-1508.36	-52.77	-1508.36	-333837.00	-12185.30	-12208.10	237.66	3.41	4.426
2.00	1(e)	SLU	3	1	0.00	-75417.90	-1011.19	-1508.36	-52.77	-1508.36	-333837.00	-12185.30	-12208.10	237.66	3.41	4.426
2.75	1(e)	SLU	3	1	75.00	-74930.40	-826.24	-1498.61	1193.62	1498.61	-333837.00	-12168.20	12182.00	122.34	3.43	4.455
2.75	1(e)	SLU	4	1	0.00	-96418.20	-729.84	-1928.36	864.58	1928.36	-333837.00	-12987.50	12660.00	123.75	2.81	3.462
3.26	1(e)	SLU	4	1	51.00	-96086.70	-535.71	-1921.73	2216.50	2216.50	-333837.00	-11939.70	13379.40	120.94	2.84	3.474
3.50	1(e)	SLU	5	10	0.00	-118423.00	-985.21	-2368.45	-2151.05	-2368.45	-246925.00	-8136.76	-8216.85	217.97	1.40	2.085
3.50	1(e)	SLU	5	10	0.00	-118423.00	-985.21	-2368.45	-2151.05	-2368.45	-235893.00	-7554.17	-7688.20	220.78	1.31	1.992
4.35	1(e)	SLU	5	10	85.00	-118036.00	1216.98	2360.72	-1098.46	-2360.72	-235893.00	7563.51	-7695.86	319.22	1.32	1.998
5.00	1(e)	SLU	6	10	0.00	-111834.00	-564.50	-2236.69	740.03	2236.69	-235893.00	-7694.53	7805.18	139.22	1.45	2.109
5.00	1(e)	SLU	6	10	0.00	-111834.00	-564.50	-2236.69	740.03	2236.69	-235893.00	-7694.53	7805.18	139.22	1.45	2.109
6.26	1(e)	SLU	6	10	126.00	-111261.00	-707.82	-2225.22	1724.03	2225.22	-235893.00	-7704.36	7814.14	139.22	1.47	2.120
6.50	1(e)	SLU	7	10	0.00	-102373.00	-1381.25	-2047.47	-1412.24	-2047.47	-235893.00	-7836.85	-7930.40	220.78	1.67	2.304
6.50	1(e)	SLU	7	10	0.00	-102373.00	-1381.25	-2047.47	-1412.24	-2047.47	-235893.00	-7836.85	-7930.40	220.78	1.67	2.304
7.35	1(e)	SLU	7	10	85.00	-101987.00	1073.89	2039.73	-1005.22	-2039.73	-235893.00	7842.02	-7934.81	319.22	1.67	2.313
8.00	1(e)	SLU	8	10	0.00	-96395.60	260.43	1927.91	390.76	1927.91	-235893.00	7877.70	7951.39	40.78	1.81	2.447
8.00	1(e)	SLU	8	10	0.00	-96395.60	260.43	1927.91	390.76	1927.91	-235893.00	7877.70	7951.39	40.78	1.81	2.447
9.26	1(e)	SLU	8	10	126.00	-95822.30	-1034.15	-1916.45	1754.42	1916.45	-235893.00	-7878.20	7949.30	139.22	1.83	2.462
9.50	1(e)	SLU	9	10	0.00	-86929.60	-1807.04	-1807.04	-1394.07	-1738.59	-235893.00	-8121.55	-7598.97	219.38	2.06	2.714
9.50	1(e)	SLU	9	10	0.00	-86929.60	-1807.04	-1807.04	-1394.07	-1738.59	-235893.00	-8121.55	-7598.97	219.38	2.06	2.714
10.35	1(e)	SLU	9	10	85.00	-86542.80	896.65	1730.86	-1003.20	-1730.86	-235893.00	7854.46	-7878.94	319.22	2.08	2.726
11.00	1(e)	SLU	10	10	0.00	-81343.20	733.07	1626.86	367.22	1626.86	-235893.00	7820.75	7816.70	40.78	2.22	2.900
11.00	1(e)	SLU	10	10	0.00	-81343.20	733.07	1626.86	367.22	1626.86	-235893.00	7820.75	7816.70	40.78	2.22	2.900
12.26	1(e)	SLU	10	10	126.00	-80769.90	-1212.43	-1615.40	1790.12	1790.12	-235893.00	-7550.84	8090.72	137.81	2.24	2.921
12.50	1	SLU	11	10	0.00	-71845.90	-2041.30	-2041.30	-1454.90	-1454.90	-235893.00	-8946.85	-6292.42	213.75	2.54	3.283
12.50	1	SLU	11	10	0.00	-71845.90	-2041.30	-2041.30	-1454.90	-1454.90	-235893.00	-8946.85	-6292.42	213.75	2.54	3.283
13.35	1(e)	SLU	11	10	85.00	-71459.20	801.23	1429.18	-1056.35	-1429.18	-235893.00	7714.47	-7651.37	319.22	2.53	3.301
14.00	1(e)	SLU	12	10	0.00	-66457.00	965.37	1329.14	277.48	1329.14	-235893.00	7643.42	7548.72	40.78	2.70	3.550
14.00	1(e)	SLU	12	10	0.00	-66457.00	965.37	1329.14	277.48	1329.14	-235893.00	7643.42	7548.72	40.78	2.70	3.550
15.26	1(e)	SLU	12	10	126.00	-65883.70	-1232.53	-1317.67	2155.05	2155.05	-235893.00	-5684.56	9364.68	127.97	2.80	3.580
15.50	1(e)	SLU	13	7	0.00	-57085.20	-2068.43	-2068.43	-717.70	-1141.70	-185194.00	-7112.40	-4012.06	225.00	2.29	3.244
15.50	1(e)	SLU	13	7	0.00	-57085.20	-2068.43	-2068.43	-717.70	-1141.70	-174161.00	-6522.45	-3552.87	220.78	2.28	3.051
16.35	1(e)	SLU	13	7	85.00	-56795.20	675.28	1135.90	-698.65	-1135.90	-174161.00	4917.14	-4962.80	306.56	2.25	3.066
17.00	1(e)	SLU	14	7	0.00	-51948.60	942.58	1038.97	95.64	1038.97	-174161.00	4853.15	4860.39	53.44	2.47	3.353
17.00	1(e)	SLU	14	7	0.00	-51948.60	942.58	1038.97	95.64	1038.97	-174161.00	4853.15	4860.39	53.44	2.47	3.353
18.26	1	SLU	14	7	126.00	-51518.60	-1213.47	-1213.47	1565.14	1565.14	-174161.00	-4079.65	5406.43	120.94	2.53	3.381
18.50	1	SLU	15	7	0.00	-42865.80	-2071.84	-2071.84	-1166.27	-1166.27	-42865.80	-6077.46	-3402.89	220.78	3.01	2.930
18.50	1	SLU	15	7	0.00	-42865.80	-2071.84	-2071.84	-1166.27	-1166.27	-42865.80	-6077.46	-3402.89	220.78	3.01	2.930
19.35	1(e)	SLU	15	7	85.00	-42575.80	657.12	851.51	-804.20	-851.51	-174161.00	4686.66	-4605.69	306.56	2.97	4.091
20.00	1(e)	SLU	16	7	0.00	-37657.20	783.24	783.24	186.63	753.14	-174161.00	4570.45	4448.92	53.44	3.27	4.625
20.00	1(e)	SLU	16	7	0.00	-37657.20	783.24	783.24	186.63	753.14	-174161.00	4570.45	4448.92	53.44	3.27	4.625
21.26	1	SLU	16	7	126.00	-37227.20	-1084.81	-1084.81	1587.23	1587.23	-37227.20	-3528.04	5185.69	118.12	3.40	3.622
21.50	1	SLU	17	7	0.00	-28560.00	-1969.04	-1969.04	-1194.29	-1194.29	-28560.00	-5337.22	-3250.84	222.19	3.95	5.714
21.50	1	SLU	17	7	0.00	-28560.00	-1969.04	-1969.04	-1194.29	-1194.29	-28560.00	-5337.22	-3250.84	222.19	3.95	5.714
22.35	1	SLU	17	7	85.00	-28269.90	647.19	647.19	-790.86	-790.86	-28269.90	3703.16	-4566.57	300.94	3.99	5.753
23.00	1(e)	SLU	18	7	0.00	-23015.30	216.67	460.31	220.04	460.31	-174161.00	3975.33	4019.65	54.84	4.37	5.567
23.00	1(e)	SLU	18	7	0.00	-23015.30	216.67	460.31	220.04	460.31	-174161.00	3975.33	4019.65	54.84	4.37	5.567
24.26	1	SLU	18	7	126.00	-22585.30	-813.77	-813.77	1575.08	1575.08	-22585.30	-2549.96	4774.59	109.69	5.22	3.053
24.50	1	SLU	19	7	0.00	-13909.00	-1731.67	-1731.67	-1173.39	-1173.39	-13909.00	-4345.64	-2926.83	222.19	5.52	2.505
24.50	1	SLU	19	7	0.00	-13909.00	-1731.67	-1731.67	-1173.39	-1173.39	-13909.00	-4345.64	-2926.83	222.19	5.52	2.505
25.35	1	SLU	19	7	85.00	-13619.00	783.47	783.47	-851.94	-851.94	-13619.00	3418.93	-3670.05	300.94	5.47	4.334
26.00	1(e)	SLU	20	7	0.00	-7592.54	-624.75	-624.75	83.77	-151.85	-7592.54	-4219.06	-959.72	188.44	12.48	6.730
26.00	1(e)	SLU	20	7	0.00	-7592.54	-624.75	-624.75	83.77	-151.85	-7592.54	-4219.06	-959.72	188.44	12.48	6.730
27.26	1	SLU	20	7	126.00	-7162.56	434.36	434.36	2261.61	2261.61	-7162.56	686.80	3525.60	86.84	13.42	1.560



# Relazione di calcolo

0.004	SLE Q	1	1	0.00	-35868.10	49.69	366.75	0.00	12.31	18.68	273.76
1.002	SLE R	1	1	100.00	-41466.50	-78.15	721.25	0.00	12.31	23.30	337.26
1.004	SLE Q	1	1	100.00	-35368.10	-65.21	613.86	0.00	12.31	19.86	287.46
1.002	SLE R	2	1	0.00	-47018.10	-175.58	765.63	0.00	12.31	26.73	385.75
1.004	SLE Q	2	1	0.00	-40088.20	-149.74	636.11	0.00	12.31	22.70	327.82
1.352	SLE R	2	1	35.00	-46843.10	-54.81	913.19	0.00	12.31	26.62	384.76
1.354	SLE Q	2	1	35.00	-39913.20	-44.18	747.75	0.00	12.31	22.51	325.69
2.002	SLE R	3	1	0.00	-53067.10	-35.84	-715.28	0.00	12.31	28.30	413.26
2.004	SLE Q	3	1	0.00	-45182.60	-38.85	-519.72	0.00	12.31	23.68	346.74
2.002	SLE R	3	1	0.00	-53067.10	-35.84	-715.28	0.00	12.31	28.30	413.26
2.004	SLE Q	3	1	0.00	-45182.60	-38.85	-519.72	0.00	12.31	23.68	346.74
2.752	SLE R	3	1	75.00	-52692.10	838.30	-585.93	0.00	12.31	32.80	464.23
2.754	SLE Q	3	1	75.00	-44807.60	711.51	-435.28	0.00	12.31	27.55	390.60
2.752	SLE R	4	1	0.00	-67794.10	606.95	-518.61	0.00	12.31	37.82	545.73
2.754	SLE Q	4	1	0.00	-57626.10	514.23	-390.10	0.00	12.31	31.87	460.48
3.262	SLE R	4	1	51.00	-67539.10	1550.97	-383.07	0.00	12.31	43.29	608.04
3.264	SLE Q	4	1	51.00	-57371.10	1348.00	-301.68	0.00	12.31	36.85	517.33
3.502	SLE R	5	10	0.00	-83243.80	-1512.81	-711.55	0.00	12.31	73.81	1030.08
3.504	SLE Q	5	10	0.00	-70464.90	-1310.00	-590.63	0.00	12.31	62.63	873.68
3.502	SLE R	5	10	0.00	-83243.80	-1512.81	-711.55	0.00	9.24	76.11	1062.09
3.504	SLE Q	5	10	0.00	-70464.90	-1310.00	-590.63	0.00	9.24	64.59	900.94
4.352	SLE R	5	10	85.00	-82946.30	-770.82	860.43	0.00	9.24	70.38	994.37
4.354	SLE Q	5	10	85.00	-70167.40	-651.68	627.66	0.00	9.24	58.47	829.45
5.002	SLE R	6	10	0.00	-78605.60	517.40	-322.18	0.00	9.24	59.45	861.23
5.004	SLE Q	6	10	0.00	-66837.50	415.21	-20.24	0.00	9.24	47.64	699.98
5.002	SLE R	6	10	0.00	-78605.60	517.40	-322.18	0.00	9.24	59.45	861.23
5.004	SLE Q	6	10	0.00	-66837.50	415.21	-20.24	0.00	9.24	47.64	699.98
6.262	SLE R	6	10	126.00	-78164.60	1210.79	-520.96	0.00	9.24	67.91	956.90
6.264	SLE Q	6	10	126.00	-66396.50	1046.36	-461.83	0.00	9.24	58.06	817.06
6.502	SLE R	7	10	0.00	-71930.80	-993.68	-1018.70	0.00	9.24	67.02	930.11
6.504	SLE Q	7	10	0.00	-60784.80	-864.35	-904.68	0.00	9.24	57.34	793.82
6.502	SLE R	7	10	0.00	-71930.80	-993.68	-1018.70	0.00	9.24	67.02	930.11
6.504	SLE Q	7	10	0.00	-60784.80	-864.35	-904.68	0.00	9.24	57.34	793.82
7.352	SLE R	7	10	85.00	-71633.30	-704.62	746.27	0.00	9.24	61.18	863.43
7.354	SLE Q	7	10	85.00	-60487.30	-593.12	504.82	0.00	9.24	50.32	714.26
8.002	SLE R	8	10	0.00	-67743.20	272.21	280.25	0.00	9.24	49.60	723.28
8.004	SLE Q	8	10	0.00	-57570.50	204.52	516.94	0.00	9.24	44.83	644.20
8.002	SLE R	8	10	0.00	-67743.20	272.21	280.25	0.00	9.24	49.60	723.28
8.004	SLE Q	8	10	0.00	-57570.50	204.52	516.94	0.00	9.24	44.83	644.20
9.262	SLE R	8	10	126.00	-67302.20	1233.14	-760.09	0.00	9.24	63.58	881.35
9.264	SLE Q	8	10	126.00	-57129.50	1075.01	-673.50	0.00	9.24	54.54	754.57
9.502	SLE R	9	10	0.00	-61064.80	-982.31	-1330.93	0.00	9.24	63.14	859.31
9.504	SLE Q	9	10	0.00	-51504.10	-863.66	-1182.18	0.00	9.24	54.22	735.62
9.502	SLE R	9	10	0.00	-61064.80	-982.31	-1330.93	0.00	9.24	63.14	859.31
9.504	SLE Q	9	10	0.00	-51504.10	-863.66	-1182.18	0.00	9.24	54.22	735.62
10.352	SLE R	9	10	85.00	-60767.30	-703.56	616.15	0.00	9.24	52.74	742.21
10.354	SLE Q	9	10	85.00	-51206.60	-594.95	388.95	0.00	9.24	43.09	610.48
11.002	SLE R	10	10	0.00	-57165.80	255.27	627.65	0.00	9.24	46.22	658.78
11.004	SLE Q	10	10	0.00	-48551.30	189.75	830.33	0.00	9.24	42.13	591.17
11.002	SLE R	10	10	0.00	-57165.80	255.27	627.65	0.00	9.24	46.22	658.78
11.004	SLE Q	10	10	0.00	-48551.30	189.75	830.33	0.00	9.24	42.13	591.17
12.262	SLE R	10	10	126.00	-56724.80	1259.29	-892.27	0.00	9.24	58.35	796.53
12.264	SLE Q	10	10	126.00	-48110.30	1105.62	-793.43	0.00	9.24	50.24	684.00
12.502	SLE R	11	10	0.00	-50465.10	-1026.16	-1504.66	0.00	9.24	58.51	781.08
12.504	SLE Q	11	10	0.00	-42457.50	-907.05	-1340.44	0.00	9.24	50.43	670.67
12.502	SLE R	11	10	0.00	-50465.10	-1026.16	-1504.66	0.00	9.24	58.51	781.08
12.504	SLE Q	11	10	0.00	-42457.50	-907.05	-1340.44	0.00	9.24	50.43	670.67
13.352	SLE R	11	10	85.00	-50167.60	-741.13	545.57	0.00	9.24	45.47	634.80
13.354	SLE Q	11	10	85.00	-42160.00	-628.19	325.61	0.00	9.24	36.86	518.58
14.002	SLE R	12	10	0.00	-46712.50	191.79	800.19	0.00	9.24	40.64	569.96
14.004	SLE Q	12	10	0.00	-39636.90	137.00	989.00	0.00	9.24	37.50	516.92
14.002	SLE R	12	10	0.00	-46712.50	191.79	800.19	0.00	9.24	40.64	569.96
14.004	SLE Q	12	10	0.00	-39636.90	137.00	989.00	0.00	9.24	37.50	516.92
15.262	SLE R	12	10	126.00	-46271.50	1515.99	-905.23	0.00	9.24	54.16	724.56
15.264	SLE Q	12	10	126.00	-39195.90	1326.09	-796.49	0.00	9.24	46.59	621.87
15.502	SLE R	13	7	0.00	-40101.00	-509.89	-1520.61	0.00	9.24	62.79	821.64
15.504	SLE Q	13	7	0.00	-33623.50	-460.46	-1340.11	0.00	9.24	54.08	704.39
15.502	SLE R	13	7	0.00	-40101.00	-509.89	-1520.61	0.00	6.16	65.44	856.27
15.504	SLE Q	13	7	0.00	-33623.50	-460.46	-1340.11	0.00	6.16	56.35	734.03
16.352	SLE R	13	7	85.00	-39877.90	-489.73	457.18	0.00	6.16	49.71	681.90
16.354	SLE Q	13	7	85.00	-33400.40	-411.54	263.99	0.00	6.16	39.96	552.60
17.002	SLE R	14	7	0.00	-36532.30	63.61	772.19	0.00	6.16	44.08	612.79
17.004	SLE Q	14	7	0.00	-30963.90	27.05	935.58	0.00	6.16	40.92	559.05
17.002	SLE R	14	7	0.00	-36532.30	63.61	772.19	0.00	6.16	44.08	612.79
17.004	SLE Q	14	7	0.00	-30963.90	27.05	935.58	0.00	6.16	40.92	559.05
18.262	SLE R	14	7	126.00	-36201.50	1102.89	-894.98	0.00	6.16	63.11	810.54
18.264	SLE Q	14	7	126.00	-30633.20	970.98	-799.87	0.00	6.16	54.65	699.23
18.502	SLE R	15	7	0.00	-30135.60	-825.74	-1525.47	0.00	6.16	62.61	786.44
18.504	SLE Q	15	7	0.00	-25153.30	-734.28	-1352.09	1.54	4.62	54.45	679.67



Relazione di calcolo

18.50	2	SLE R	15	7	0.00	-30135.60	-825.74	-1525.47	0.00	6.16	62.61	786.44
18.50	4	SLE Q	15	7	0.00	-25153.30	-734.28	-1352.09	1.54	4.62	54.45	679.67
19.35	2	SLE R	15	7	85.00	-29912.50	-563.51	442.86	0.00	6.16	42.03	561.76
19.35	4	SLE Q	15	7	85.00	-24930.10	-476.03	249.34	0.00	6.16	33.43	450.40
20.00	2	SLE R	16	7	0.00	-26515.10	127.58	655.02	0.00	6.16	34.72	474.01
20.00	4	SLE Q	16	7	0.00	-22454.40	82.27	840.58	0.00	6.16	33.05	442.02
20.00	2	SLE R	16	7	0.00	-26515.10	127.58	655.02	0.00	6.16	34.72	474.01
20.00	4	SLE Q	16	7	0.00	-22454.40	82.27	840.58	0.00	6.16	33.05	442.02
21.26	2	SLE R	16	7	126.00	-26184.40	1118.61	-801.24	0.00	6.16	53.61	670.25
21.26	4	SLE Q	16	7	126.00	-22123.60	985.50	-721.10	1.54	4.62	46.79	582.09
21.50	2	SLE R	17	7	0.00	-20108.50	-846.14	-1451.01	1.54	4.62	56.70	679.92
21.50	4	SLE Q	17	7	0.00	-16632.60	-754.08	-1290.08	1.54	4.62	50.43	598.10
21.50	2	SLE R	17	7	0.00	-20108.50	-846.14	-1451.01	1.54	4.62	56.70	679.92
21.50	4	SLE Q	17	7	0.00	-16632.60	-754.08	-1290.08	1.54	4.62	50.43	598.10
22.35	2	SLE R	17	7	85.00	-19885.30	-553.32	435.15	0.00	6.16	32.97	427.08
22.35	4	SLE Q	17	7	85.00	-16409.50	-468.23	242.35	0.00	6.16	25.74	336.05
23.00	2	SLE R	18	7	0.00	-16244.80	152.17	242.85	0.00	6.16	20.26	278.40
23.00	4	SLE Q	18	7	0.00	-13731.30	102.86	495.43	0.00	6.16	20.83	276.61
23.00	2	SLE R	18	7	0.00	-16244.80	152.17	242.85	0.00	6.16	20.26	278.40
23.00	4	SLE Q	18	7	0.00	-13731.30	102.86	495.43	0.00	6.16	20.83	276.61
24.26	2	SLE R	18	7	126.00	-15914.10	1108.68	-604.68	1.54	4.62	44.69	530.20
24.26	4	SLE Q	18	7	126.00	-13400.50	978.54	-557.83	1.54	4.62	39.97	469.82
24.50	2	SLE R	19	7	0.00	-9832.24	-831.85	-1280.28	3.08	3.08	58.46	662.40
24.50	4	SLE Q	19	7	0.00	-7902.57	-742.16	-1150.70	3.08	3.08	54.03	690.73
24.50	2	SLE R	19	7	0.00	-9832.24	-831.85	-1280.28	3.08	3.08	58.46	662.40
24.50	4	SLE Q	19	7	0.00	-7902.57	-742.16	-1150.70	3.08	3.08	54.03	690.73
25.35	2	SLE R	19	7	85.00	-9609.11	-594.06	533.27	1.54	4.62	28.53	337.53
25.35	4	SLE Q	19	7	85.00	-7679.44	-492.42	325.62	1.54	4.62	21.11	251.85
26.00	2	SLE R	20	7	0.00	-5400.50	64.92	-371.30	1.54	4.62	11.26	142.25
26.00	4	SLE Q	20	7	0.00	-4506.90	53.87	-34.53	0.00	6.16	5.35	74.10
26.00	2	SLE R	20	7	0.00	-5400.50	64.92	-371.30	1.54	4.62	11.26	142.25
26.00	4	SLE Q	20	7	0.00	-4506.90	53.87	-34.53	0.00	6.16	5.35	74.10
27.26	2	SLE R	20	7	126.00	-5069.75	1581.42	317.16	3.08	3.08	64.20	1577.51
27.26	4	SLE Q	20	7	126.00	-4176.15	1308.95	266.04	3.08	3.08	53.28	1310.49

Stato limite d'esercizio - Verifiche a fessurazione

Xg	CC	TCC	El	Sez.	X	N	My	Mz	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	Wk
<mm>					<cm>	<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
24.50	4	SLE Q	19	7	0.00	-7902.57	-1150.70	-742.16	39.00	208.00	0.50	14.00	140.19	1.54	68.39	690.73	0.20	0.05
24.50	3	SLE F	19	7	0.00	-8423.61	-1188.48	-767.84	39.00	208.00	0.50	14.00	138.56	1.54	66.59	685.25	0.20	0.05
24.50	4	SLE Q	19	7	0.00	-7902.57	-1150.70	-742.16	39.00	208.00	0.50	14.00	140.19	1.54	68.39	690.73	0.20	0.05
24.50	3	SLE F	19	7	0.00	-8423.61	-1188.48	-767.84	39.00	208.00	0.50	14.00	138.56	1.54	66.59	685.25	0.20	0.05
27.26	4	SLE Q	20	7	126.00	-4176.15	266.04	1308.95	39.00	258.00	0.50	14.00	258.59	1.54	198.57	1310.49	0.38	0.17
27.26	3	SLE F	20	7	126.00	-4403.49	279.76	1377.24	39.00	258.00	0.50	14.00	258.54	1.54	198.51	1377.32	0.40	0.18

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<mm>	<mm>						<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	
0.00	1.35	ø8/20	2	21	SLU	0.50	0.35	490.19	2.50	12369.40	32873.20	12369.40	0.40	0.45	587.68	2.50	15893.50	33791.00	15893.50	25.234	
2.00	3.26	ø8/20	2	21	SLU	0.50	0.35	2650.82	2.50	12369.40	32873.20	12369.40	0.40	0.45	380.65	2.50	15893.50	33791.00	15893.50	4.666	
3.50	4.35	ø6/15	2	21	SLU	0.35	0.35	1238.34	1.86	6905.04	6905.04	6905.04	0.40	0.30	2590.81	2.02	6443.51	6443.51	6443.51	2.487	
5.00	5.45	ø6/15	2	21	SLU	0.35	0.35	780.95	2.28	8474.34	8474.34	8474.34	0.40	0.30	113.74	2.47	7861.48	7861.48	7861.48	10.851	
5.45	5.81	ø6/15	2	21	SLU	0.35	0.35	780.95	2.30	8518.48	8518.48	8518.48	0.40	0.30	113.74	2.48	7901.47	7901.47	7901.47	10.908	
5.81	6.26	ø6/15	2	21	SLU	0.35	0.35	780.95	2.31	8553.63	8553.63	8553.63	0.40	0.30	113.74	2.49	7933.32	7933.32	7933.32	10.953	
6.50	7.35	ø6/15	2	21	SLU	0.35	0.35	478.85	2.50	9277.05	11173.50	9277.05	0.40	0.30	2888.40	2.50	7955.54	10950.70	7955.54	2.754	
8.00	8.45	ø6/15	2	21	SLU	0.35	0.35	1082.27	2.50	9277.05	13208.50	9277.05	0.40	0.30	1027.44	2.50	7955.54	12945.00	7955.54	7.743	
8.45	8.81	ø6/15	2	21	SLU	0.35	0.35	1082.27	2.50	9277.05	13278.10	9277.05	0.40	0.30	1027.45	2.50	7955.54	13013.30	7955.54	7.743	
8.81	9.26	ø6/15	2	21	SLU	0.35	0.35	1082.27	2.50	9277.05	13333.90	9277.05	0.40	0.30	1027.45	2.50	7955.54	13068.00	7955.54	7.743	
9.50	10.35	ø6/15	2	21	SLU	0.35	0.35	459.85	2.50	9277.05	16430.80	9277.05	0.40	0.30	3180.81	2.50	7955.54	16103.10	7955.54	2.501	
11.00	11.45	ø6/15	2	21	SLU	0.35	0.35	1129.29	2.50	9277.05	18332.40	9277.05	0.40	0.30	1544.05	2.50	7955.54	17966.80	7955.54	5.152	
11.45	11.81	ø6/15	2	21	SLU	0.35	0.35	1129.29	2.50	9277.05	18402.10	9277.05	0.40	0.30	1544.05	2.50	7955.54	18035.10	7955.54	5.152	
11.81	12.26	ø6/15	2	21	SLU	0.35	0.35	1129.29	2.50	9277.05	18457.90	9277.05	0.40	0.30	1544.05	2.50	7955.54	18089.80	7955.54	5.152	
12.50	13.35	ø6/15	2	21	SLU	0.35	0.35	468.88	2.50	9277.05	21565.40	9277.05	0.40	0.30	3344.15	2.50	7955.54	21135.30	7955.54	2.379	
14.00	14.45	ø6/15	2	21	SLU	0.35	0.35	1490.13	2.50	9277.05	23011.20	9277.05	0.40	0.30	1744.37	2.50	7955.54	22552.30	7955.54	4.561	
14.45	14.81	ø6/15	2	21	SLU	0.35	0.35	1490.13	2.50	9277.05	23011.20	9277.05	0.40	0.30	1744.37	2.50	7955.54	22552.30	7955.54	4.561	
14.81	15.26	ø6/15	2	21	SLU	0.35	0.35	1490.13	2.50	9277.05	23011.20	9277.05	0.40	0.30	1744.37	2.50	7955.54	22552.30	7955.54	4.561	
15.50	16.35	ø6/15	2	21	SLU	0.35	0.25	22.41	2.50	6634.02	14382.50	6634.02	0.30	0.30	3227.90	2.50	7955.54	14783.60	7955.54	2.465	
17.00	17.45	ø6/15	2	21	SLU	0.35	0.25	1166.27	2.50	6634.02	16049.70	6634.02	0.30	0.30	1711.15	2.50	7955.54	16497.30	7955.54	4.649	
17.45	17.81	ø6/15	2	21	SLU	0.35	0.25	1166.27	2.50	6634.02	16099.60	6634.02	0.30	0.30	1711.15	2.50	7955.54	16548.60	7955.54	4.649	
17.81	18.26	ø6/15	2	21	SLU	0.35	0.25	1166.27	2.50	6634.02	16139.40	6634.02	0.30	0.30	1711.15	2.50	7955.54	16589.50	7955.54	4.649	
18.50	19.35	ø6/15	2	21	SLU	0.35	0.25	425.97	2.50	6634.02	16455.30	6634.02	0.30	0.30	3210.54	2.50	7955.54	16914.20	7955.54	2.478	
20.00	20.45	ø6/15	2	21	SLU	0.35	0.25	1111.59	2.50	6634.02	16455.30	6634.02	0.30	0.30	1482.58	2.50	7955.54	16914.20	7955.54	5.366	
20.45	20.81	ø6/15	2	21	SLU	0.35	0.25	1111.59	2.50	6634.02	16455.30	6634.02	0.30	0.30	1482.58	2.50	7955.54	16914.20	7955.54	5.366	
20.81	21.26	ø6/15	2	21	SLU	0.35	0.25	1111.59	2.50	6634.02	16455.30	6634.02	0.30	0.30	1482.58	2.50	7955.54	16914.20	7955.54	5.366	
21.50	22.35	ø6/15	2	21	SLU	0.35	0.25	474.63	2.50	6634.02	16455.30	6634.02	0.30	0.30	3077.93	2.50	7955.54	16914.20	7955.54	2.585	
23.00	23.45	ø6/15	2	21	SLU	0.35	0.25	1075.42	2.50	6634.02	16152.30	6634.02	0.30	0.30	817.81	2.50	7955.54	16602.70	7955.54	6.169	
23.45	23.81	ø6/15	2	21	SLU	0.35	0.25	1075.42	2.50	6634.02	16132.30	6634.02	0.30	0.30	817.81	2.50	7955.54	16582.20	7955.54	6.169	
23.81	24.26	ø6/15	2	21	SLU	0.35	0.25	1075.42	2.50	6634.02	16116.40	6634.02	0.30	0.30	817.81	2.50	7955.54	16565.80	7955.54	6.169	
24.50	25.35	ø6/15	2	21	SLU	0.35	0.25	378.18	2.50	6634.02	14970.00	6634.02	0.30	0.30	2958.98	2.50	7955.54	15387.50	7955.54	2.689	
26.00	26.45	ø6/15	2	21	SLU	0.35	0.25	1728.45	2.50	6634.02	14150.00	6634.02	0.30	0.30	840.56	2.50	7955.54	14544.60	7955.54	3.838	
26.45	26.81	ø6/15	2	21	SLU	0.35	0.25	1728.45	2.50	6634.02	14130.00	6634.02	0.30	0.30	840.56	2.50	7955.54	14524.10	7955.54	3.838	
26.81	27.26	ø6/15	2	21	SLU	0.35	0.25	1728.45	2.50	6634.02	14114.10	6634.02	0.30	0.30	840.56	2.50	7955.54	14507.70	7955.54	3.838	



Relazione di calcolo

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
1R		40.00	50.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
1R		40.00	50.00	3.00	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.001	(e)	SLU	1	1	0.00	-59725.00	1.33	1194.50	21.04	1194.50	-333837.00	11524.50	11312.50	57.66	4.00	5.590
0.001	(e)	SLU	1	1	0.00	-59725.00	1.33	1194.50	21.04	1194.50	-333837.00	11524.50	11312.50	57.66	4.00	5.590
1.001	(e)	SLU	1	1	100.00	-59075.00	1123.64	1181.50	75.57	1181.50	-333837.00	11493.50	11273.40	57.66	4.03	5.651
1.001	(e)	SLU	2	1	0.00	-67948.60	1430.52	1430.52	264.84	1358.97	-333837.00	12322.60	11511.90	56.25	3.66	4.913
1.351	(e)	SLU	2	1	35.00	-67721.10	1972.89	1972.89	59.43	1354.42	-333837.00	14537.40	9786.30	47.81	3.67	4.930
2.001	(e)	SLU	3	1	0.00	-75592.40	-1492.70	-1511.85	100.82	1511.85	-333837.00	-12191.40	12217.30	122.34	3.40	4.416
2.001	(e)	SLU	3	1	0.00	-75592.40	-1492.70	-1511.85	100.82	1511.85	-333837.00	-12191.40	12217.30	122.34	3.40	4.416
2.751	(e)	SLU	3	1	75.00	-75104.90	-883.11	-1502.10	-1189.79	-1502.10	-333837.00	-12174.30	-12191.30	237.66	3.42	4.445
2.751	(e)	SLU	4	1	0.00	-97369.50	-654.17	-1947.39	-822.18	-1947.39	-333837.00	-12998.40	-12684.60	236.25	2.79	3.429
3.261	(e)	SLU	4	1	51.00	-97038.00	-59.45	-1940.76	-2336.72	-2336.72	-333837.00	-11405.40	-13755.90	240.47	2.83	3.440
3.501	(e)	SLU	5	10	0.00	-120226.00	-5.75	-2404.51	1905.64	2404.51	-246925.00	-8094.34	8183.13	142.03	1.36	2.054
3.501	(e)	SLU	5	10	0.00	-120226.00	-5.75	-2404.51	1905.64	2404.51	-235893.00	-7510.20	7651.94	139.22	1.27	1.962
4.351	(e)	SLU	5	10	85.00	-119839.00	1062.49	2396.78	985.91	2396.78	-235893.00	7519.69	7659.76	40.78	1.28	1.968
5.001	(e)	SLU	6	10	0.00	-112744.00	-2391.59	-2391.59	-780.69	-2254.88	-235893.00	-7917.68	-7520.22	219.38	1.43	2.092
5.001	(e)	SLU	6	10	0.00	-112744.00	-2391.59	-2391.59	-780.69	-2254.88	-235893.00	-7917.68	-7520.22	219.38	1.43	2.092
6.261	(e)	SLU	6	10	126.00	-112170.00	667.83	2243.41	-1613.44	-2243.41	-235893.00	7688.76	-7799.90	319.22	1.45	2.103
6.501	(e)	SLU	7	10	0.00	-103501.00	768.38	2070.02	1276.26	2070.02	-235893.00	7821.49	7917.21	40.78	1.64	2.279
6.501	(e)	SLU	7	10	0.00	-103501.00	768.38	2070.02	1276.26	2070.02	-235893.00	7821.49	7917.21	40.78	1.64	2.279
7.351	(e)	SLU	7	10	85.00	-103114.00	724.32	2062.29	961.49	2062.29	-235893.00	7826.77	7921.74	40.78	1.65	2.288
8.001	(e)	SLU	8	10	0.00	-96849.00	-2493.83	-2493.83	-398.78	-1936.98	-235893.00	-8926.45	-6784.27	215.16	1.80	2.436
8.001	(e)	SLU	8	10	0.00	-96849.00	-2493.83	-2493.83	-398.78	-1936.98	-235893.00	-8926.45	-6784.27	215.16	1.80	2.436
9.261	(e)	SLU	8	10	126.00	-96275.70	979.77	1925.51	-1649.94	-1925.51	-235893.00	7877.79	-7950.91	319.22	1.81	2.450
9.501	(e)	SLU	9	10	0.00	-87586.10	1162.43	1751.72	1224.02	1751.72	-235893.00	7860.85	7891.15	40.78	2.04	2.693
9.501	(e)	SLU	9	10	0.00	-87586.10	1162.43	1751.72	1224.02	1751.72	-235893.00	7860.85	7891.15	40.78	2.04	2.693
10.351	(e)	SLU	9	10	85.00	-87199.40	466.66	1743.99	943.86	1743.99	-235893.00	7858.52	7886.65	40.78	2.06	2.705
11.001	(e)	SLU	10	10	0.00	-81436.10	-2576.40	-2576.40	-393.56	-1628.72	-235893.00	-9341.22	-6094.01	212.34	2.24	2.897
11.001	(e)	SLU	10	10	0.00	-81436.10	-2576.40	-2576.40	-393.56	-1628.72	-235893.00	-9341.22	-6094.01	212.34	2.24	2.897
12.261	(e)	SLU	10	10	126.00	-80862.80	1164.94	1617.26	-1675.43	-1675.43	-235893.00	7551.63	-8092.29	317.81	2.24	2.917
12.501	(e)	SLU	11	10	0.00	-72137.40	1393.48	1442.75	1228.42	1442.75	-235893.00	7723.73	7664.88	40.78	2.51	3.270
12.501	(e)	SLU	11	10	0.00	-72137.40	1393.48	1442.75	1228.42	1442.75	-235893.00	7723.73	7664.88	40.78	2.51	3.270
13.351	(e)	SLU	11	10	85.00	-71750.60	333.84	1435.01	972.62	1435.01	-235893.00	7718.48	7657.19	40.78	2.52	3.288
14.001	(e)	SLU	12	10	0.00	-66242.50	-2619.27	-2619.27	-355.12	-1324.85	-235893.00	-9743.29	-5118.92	208.12	2.79	3.561
14.001	(e)	SLU	12	10	0.00	-66242.50	-2619.27	-2619.27	-355.12	-1324.85	-235893.00	-9743.29	-5118.92	208.12	2.79	3.561
15.261	(e)	SLU	12	10	126.00	-65669.20	1206.31	1313.38	-2053.78	-2053.78	-235893.00	5928.79	-9145.91	309.38	2.79	3.592
15.501	(e)	SLU	13	7	0.00	-57060.10	1412.87	1412.87	335.01	1141.20	-185194.00	6068.88	4798.14	52.03	2.27	3.246
15.501	(e)	SLU	13	7	0.00	-57060.10	1412.87	1412.87	335.01	1141.20	-174161.00	5491.81	4494.44	49.22	2.24	3.052
16.351	(e)	SLU	13	7	85.00	-56770.10	202.91	1135.40	645.27	1135.40	-174161.00	4916.87	4962.41	53.44	2.25	3.068
17.001	(e)	SLU	14	7	0.00	-51438.00	-2450.79	-2450.79	-218.93	1028.76	-51438.00	-6940.88	2914.03	144.84	2.62	2.832
17.001	(e)	SLU	14	7	0.00	-51438.00	-2450.79	-2450.79	-218.93	1028.76	-51438.00	-6940.88	2914.03	144.84	2.62	2.832
18.261		SLU	14	7	126.00	-51008.00	1354.92	1354.92	-1302.24	-1302.24	-174161.00	5022.71	-4693.42	307.97	2.51	3.414
18.501	(e)	SLU	15	7	0.00	-42554.30	1526.84	1526.84	784.16	851.09	-42554.30	6065.41	3398.52	40.78	3.03	3.977
18.501	(e)	SLU	15	7	0.00	-42554.30	1526.84	1526.84	784.16	851.09	-42554.30	6065.41	3398.52	40.78	3.03	3.977
19.351	(e)	SLU	15	7	85.00	-42264.20	86.52	845.28	788.02	845.28	-174161.00	4680.17	4596.33	53.44	2.98	4.121
20.001	(e)	SLU	16	7	0.00	-37148.20	-2463.44	-2463.44	-282.88	742.97	-37148.20	-6979.17	2101.83	151.88	3.68	2.833
20.001	(e)	SLU	16	7	0.00	-37148.20	-2463.44	-2463.44	-282.88	742.97	-37148.20	-6979.17	2101.83	151.88	3.68	2.833
21.261		SLU	16	7	126.00	-36718.30	1478.56	1478.56	-1314.55	-1314.55	-36718.30	4844.12	-4174.69	309.38	3.31	3.232
21.501		SLU	17	7	0.00	-28232.70	1518.41	1518.41	819.94	819.94	-28232.70	5575.59	3009.73	39.38	4.02	3.672
21.501		SLU	17	7	0.00	-28232.70	1518.41	1518.41	819.94	819.94	-28232.70	5575.59	3009.73	39.38	4.02	3.672
22.351	(e)	SLU	17	7	85.00	-27942.70	41.87	558.85	809.42	809.42	-27942.70	3365.52	4795.48	61.88	4.08	5.956
23.001	(e)	SLU	18	7	0.00	-22900.10	-2436.73	-2436.73	-204.53	458.00	-22900.10	-6092.59	1056.08	168.75	7.49	2.494
23.001	(e)	SLU	18	7	0.00	-22900.10	-2436.73	-2436.73	-204.53	458.00	-22900.10	-6092.59	1056.08	168.75	7.49	2.494
24.261		SLU	18	7	126.00	-22470.10	1292.04	1292.04	-1420.68	-1420.68	-22470.10	3821.20	-4102.71	303.75	4.43	2.920
24.501		SLU	19	7	0.00	-13925.40	950.10	950.10	759.51	759.51	-13925.40	4103.07	3267.56	49.22	5.26	4.312
24.501		SLU	19	7	0.00	-13925.40	950.10	950.10	759.51	759.51	-13925.40	4103.07	3267.56	49.22	5.26	4.312
25.351		SLU	19	7	85.00	-13635.40	440.74	440.74	951.37	951.37	-13635.40	1958.59	4082.56	77.34	7.79	4.319
26.001		SLU	20	7	0.00	-7497.29	-2238.62	-2238.62	160.51	160.51	-7497.29	-4234.75	355.77	177.19	15.65	1.893
26.001		SLU	20	7	0.00	-7497.29	-2238.62	-2238.62	160.51	160.51	-7497.29	-4234.75	355.77	177.19	15.65	1.893
27.261		SLU	20	7	126.00	-7067.31	743.47	743.47	-2184.05	-2184.05	-7067.31	1189.64	-3479.17	276.33	11.58	1.594

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez .	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>	
0.002		SLE	R	1	1	0.00	-42081.00	14.11	75.20	0.00	12.31	19.75	294.86
0.004		SLE	Q	1	1	0.00	-35697.30	12.96	190.71	0.00	12.31	17.43	258.39
0.002		SLE	R	1	1	0.00	-42081.00	14.11	75.20	0.00	12.31	19.75	294.86
0.004		SLE	Q	1	1	0.00	-35697.30	12.96	190.71	0.00	12.31	17.43	258.39
1.002		SLE	R	1	1	100.00	-41581.00	54.23	829.43	0.00	12.31	23.77	343.18
1.004		SLE	Q	1	1	100.00	-35197.30	47.46	692.76	0.00	12.31	20.08	290.01
1.002		SLE	R	2	1	0.00	-47811.20	186.73	1028.09	0.00	12.31	28.55	408.99
1.004		SLE	Q	2	1	0.00	-40471.60	160.29	810.46	0.00	12.31	23.87	342.52
1.352		SLE	R	2	1	35.00	-47636.20	42.66	1394.43	0.00	12.31	29.44	420.31
1.354		SLE	Q	2	1	35.00	-40296.60	36.89	1059.52	0.00	12.31	24.28	347.87
2.002		SLE	R	3	1	0.00	-53140.90	69.24	-1043.78	0.00	12.31	30.29	437.53
2.004		SLE	Q	3	1	0.00	-45171.50	65.06	-735.52	0.00	12.31	24.99	362.61
2.002		SLE	R	3	1	0.00	-53140.90	69.24	-1043.78	0.00	12.31	30.29	437.53
2.004		SLE	Q	3	1	0.00	-45171.50	65.06	-735.52	0.00	12.31	24.99	362.61
2.752		SLE	R	3	1	75.00	-52765.90	-834.97	-596.18	0.00	12.31	32.87	465.14
2.754		SLE	Q	3	1	75.00	-44796.50	-707.39	-376.01	0.00	12.31	27.21	386.38
2.752		SLE	R	4	1	0.00	-68399.50	-577.05	-432.56	0.00	12.31	37.44	542.03
2.754		SLE	Q	4	1	0.00	-58042.20	-488.78	-252.76	0.00	12.31	31.16	452.51
3.262		SLE	R	4	1	51.00	-68144.50	-1638.28	8.36	0.00	12.31	42.17	594.76
3.264		SLE	Q	4	1	51.00	-57787.20	-1427.30	111.93	0.00	12.31	36.57	514.06



# Relazione di calcolo

3.50	2	SLE R	5	10	0.00	-84423.50	1334.90	51.82	0.00	12.31	65.98	945.61
3.50	4	SLE Q	5	10	0.00	-71327.80	1150.70	146.41	0.00	12.31	57.04	813.30
3.50	2	SLE R	5	10	0.00	-84423.50	1334.90	51.82	0.00	9.24	68.22	976.97
3.50	4	SLE Q	5	10	0.00	-71327.80	1150.70	146.41	0.00	9.24	58.94	839.92
4.35	2	SLE R	5	10	85.00	-84126.00	690.02	726.60	0.00	9.24	68.96	981.32
4.35	4	SLE Q	5	10	85.00	-71030.30	578.44	477.75	0.00	9.24	56.75	812.27
5.00	2	SLE R	6	10	0.00	-79170.20	-547.50	-1693.05	0.00	9.24	74.56	1029.89
5.00	4	SLE Q	6	10	0.00	-67225.00	-449.59	-1265.69	0.00	9.24	61.35	852.76
5.00	2	SLE R	6	10	0.00	-79170.20	-547.50	-1693.05	0.00	9.24	74.56	1029.89
5.00	4	SLE Q	6	10	0.00	-67225.00	-449.59	-1265.69	0.00	9.24	61.35	852.76
6.26	2	SLE R	6	10	126.00	-78729.20	-1132.22	523.81	0.00	9.24	67.55	954.03
6.26	4	SLE Q	6	10	126.00	-66784.00	-976.55	510.76	0.00	9.24	58.16	818.81
6.50	2	SLE R	7	10	0.00	-72647.70	894.97	602.35	0.00	9.24	62.15	877.62
6.50	4	SLE Q	7	10	0.00	-61299.30	773.68	589.25	0.00	9.24	53.47	752.02
6.50	2	SLE R	7	10	0.00	-72647.70	894.97	602.35	0.00	9.24	62.15	877.62
6.50	4	SLE Q	7	10	0.00	-61299.30	773.68	589.25	0.00	9.24	53.47	752.02
7.35	2	SLE R	7	10	85.00	-72350.20	674.27	473.96	0.00	9.24	58.49	835.31
7.35	4	SLE Q	7	10	85.00	-61001.80	566.74	238.41	0.00	9.24	47.60	685.30
8.00	2	SLE R	8	10	0.00	-67996.00	-278.78	-1769.62	0.00	9.24	65.53	900.11
8.00	4	SLE Q	8	10	0.00	-57716.80	-217.18	-1337.35	0.00	9.24	53.70	742.68
8.00	2	SLE R	8	10	0.00	-67996.00	-278.78	-1769.62	0.00	9.24	65.53	900.11
8.00	4	SLE Q	8	10	0.00	-57716.80	-217.18	-1337.35	0.00	9.24	53.70	742.68
9.26	2	SLE R	8	10	126.00	-67555.00	-1158.92	751.10	0.00	9.24	62.94	874.55
9.26	4	SLE Q	8	10	126.00	-57275.80	-1006.85	712.78	0.00	9.24	54.40	753.02
9.50	2	SLE R	9	10	0.00	-61457.80	858.81	889.94	0.00	9.24	57.56	798.05
9.50	4	SLE Q	9	10	0.00	-51766.20	748.93	845.09	0.00	9.24	49.74	686.17
9.50	2	SLE R	9	10	0.00	-61457.80	858.81	889.94	0.00	9.24	57.56	798.05
9.50	4	SLE Q	9	10	0.00	-51766.20	748.93	845.09	0.00	9.24	49.74	686.17
10.35	2	SLE R	9	10	85.00	-61160.30	662.21	285.70	0.00	9.24	49.11	702.93
10.35	4	SLE Q	9	10	85.00	-51468.70	559.60	73.22	0.00	9.24	39.59	572.31
11.00	2	SLE R	10	10	0.00	-57172.20	-275.35	-1830.00	0.00	9.24	59.10	801.25
11.00	4	SLE Q	10	10	0.00	-48506.90	-214.02	-1389.64	0.00	9.24	48.23	658.63
11.00	2	SLE R	10	10	0.00	-57172.20	-275.35	-1830.00	0.00	9.24	59.10	801.25
11.00	4	SLE Q	10	10	0.00	-48506.90	-214.02	-1389.64	0.00	9.24	48.23	658.63
12.26	2	SLE R	10	10	126.00	-56731.20	-1177.53	885.74	0.00	9.24	57.50	786.78
12.26	4	SLE Q	10	10	126.00	-48065.90	-1028.35	832.15	0.00	9.24	49.88	679.53
12.50	2	SLE R	11	10	0.00	-50607.30	862.40	1058.56	0.00	9.24	52.32	712.32
12.50	4	SLE Q	11	10	0.00	-42523.90	758.71	994.89	0.00	9.24	45.40	614.61
12.50	2	SLE R	11	10	0.00	-50607.30	862.40	1058.56	0.00	9.24	52.32	712.32
12.50	4	SLE Q	11	10	0.00	-42523.90	758.71	994.89	0.00	9.24	45.40	614.61
13.35	2	SLE R	11	10	85.00	-50309.80	682.61	187.29	0.00	9.24	41.22	587.93
13.35	4	SLE Q	11	10	85.00	-42226.40	579.22	-16.11	0.00	9.24	33.17	477.71
14.00	2	SLE R	12	10	0.00	-46509.30	-248.93	-1862.21	0.00	9.24	52.25	698.12
14.00	4	SLE Q	12	10	0.00	-39435.00	-192.85	-1419.15	0.00	9.24	42.44	571.28
14.00	2	SLE R	12	10	0.00	-46509.30	-248.93	-1862.21	0.00	9.24	52.25	698.12
14.00	4	SLE Q	12	10	0.00	-39435.00	-192.85	-1419.15	0.00	9.24	42.44	571.28
15.26	2	SLE R	12	10	126.00	-46068.30	-1444.09	916.14	0.00	9.24	53.45	715.89
15.26	4	SLE Q	12	10	126.00	-38994.00	-1258.34	865.78	0.00	9.24	46.54	620.47
15.50	2	SLE R	13	7	0.00	-40025.80	233.20	1073.15	0.00	9.24	52.04	705.58
15.50	4	SLE Q	13	7	0.00	-33523.00	213.45	1016.39	0.00	9.24	45.47	611.60
15.50	2	SLE R	13	7	0.00	-40025.80	233.20	1073.15	0.00	6.16	54.30	736.00
15.50	4	SLE Q	13	7	0.00	-33523.00	213.45	1016.39	0.00	6.16	47.47	638.18
16.35	2	SLE R	13	7	85.00	-39802.70	452.89	98.62	0.00	6.16	43.91	617.82
16.35	4	SLE Q	13	7	85.00	-33299.90	381.62	-71.71	0.00	6.16	36.62	515.66
17.00	2	SLE R	14	7	0.00	-36126.80	-153.37	-1744.03	0.00	6.16	59.12	776.69
17.00	4	SLE Q	14	7	0.00	-30606.70	-110.74	-1333.63	0.00	6.16	47.71	631.91
17.00	2	SLE R	14	7	0.00	-36126.80	-153.37	-1744.03	0.00	6.16	59.12	776.69
17.00	4	SLE Q	14	7	0.00	-30606.70	-110.74	-1333.63	0.00	6.16	47.71	631.91
18.26	2	SLE R	14	7	126.00	-35796.00	-914.75	1018.50	0.00	6.16	61.34	791.64
18.26	4	SLE Q	14	7	126.00	-30275.90	-801.83	939.02	0.00	6.16	53.46	686.76
18.50	2	SLE R	15	7	0.00	-29865.30	548.51	1151.50	0.00	6.16	51.86	670.38
18.50	4	SLE Q	15	7	0.00	-24905.30	488.42	1074.84	0.00	6.16	45.41	582.67
18.50	2	SLE R	15	7	0.00	-29865.30	548.51	1151.50	0.00	6.16	51.86	670.38
18.50	4	SLE Q	15	7	0.00	-24905.30	488.42	1074.84	0.00	6.16	45.41	582.67
19.35	2	SLE R	15	7	85.00	-29642.20	553.53	12.30	0.00	6.16	35.48	488.47
19.35	4	SLE Q	15	7	85.00	-24682.20	469.52	-150.65	0.00	6.16	31.69	430.42
20.00	2	SLE R	16	7	0.00	-26122.00	-197.87	-1753.52	0.00	6.16	51.56	657.64
20.00	4	SLE Q	16	7	0.00	-22122.20	-148.38	-1342.76	0.00	6.16	41.09	528.98
20.00	2	SLE R	16	7	0.00	-26122.00	-197.87	-1753.52	0.00	6.16	51.56	657.64
20.00	4	SLE Q	16	7	0.00	-22122.20	-148.38	-1342.76	0.00	6.16	41.09	528.98
21.26	2	SLE R	16	7	126.00	-25791.20	-923.50	1108.59	1.54	4.62	54.54	681.03
21.26	4	SLE Q	16	7	126.00	-21791.40	-812.26	1016.23	1.54	4.62	48.05	596.40
21.50	2	SLE R	17	7	0.00	-19837.70	573.50	1145.07	1.54	4.62	44.19	549.60
21.50	4	SLE Q	17	7	0.00	-16398.30	510.91	1069.49	1.54	4.62	39.60	486.66
21.50	2	SLE R	17	7	0.00	-19837.70	573.50	1145.07	1.54	4.62	44.19	549.60
21.50	4	SLE Q	17	7	0.00	-16398.30	510.91	1069.49	1.54	4.62	39.60	486.66
22.35	2	SLE R	17	7	85.00	-19614.50	568.88	-21.40	0.00	6.16	27.09	360.94
22.35	4	SLE Q	17	7	85.00	-16175.20	483.29	-179.36	0.00	6.16	24.89	325.67
23.00	2	SLE R	18	7	0.00	-16149.70	-140.59	-1733.47	3.08	3.08	46.07	550.60



Relazione di calcolo

23.00	4	SLE Q	18	7	0.00	-13664.30	-99.24	-1324.32	3.08	3.08	35.00	427.04
23.00	2	SLE R	18	7	0.00	-16149.70	-140.59	-1733.47	3.08	3.08	46.07	550.60
23.00	4	SLE Q	18	7	0.00	-13664.30	-99.24	-1324.32	3.08	3.08	35.00	427.04
24.26	2	SLE R	18	7	126.00	-15819.00	-999.58	979.17	1.54	4.62	49.94	585.79
24.26	4	SLE Q	18	7	126.00	-13333.50	-877.13	915.21	1.54	4.62	45.34	526.22
24.50	2	SLE R	19	7	0.00	-9823.13	531.00	741.73	1.54	4.62	31.67	371.60
24.50	4	SLE Q	19	7	0.00	-7902.47	479.11	744.82	1.54	4.62	31.09	354.21
24.50	2	SLE R	19	7	0.00	-9823.13	531.00	741.73	1.54	4.62	31.67	371.60
24.50	4	SLE Q	19	7	0.00	-7902.47	479.11	744.82	1.54	4.62	31.09	354.21
25.35	2	SLE R	19	7	85.00	-9600.00	669.58	257.16	1.54	4.62	24.81	297.19
25.35	4	SLE Q	19	7	85.00	-7679.34	569.42	38.10	3.08	3.08	17.62	212.73
26.00	2	SLE R	20	7	0.00	-5340.51	118.09	-1597.27	3.08	3.08	48.16	1124.63
26.00	4	SLE Q	20	7	0.00	-4471.59	85.91	-1222.09	3.08	3.08	36.43	804.02
26.00	2	SLE R	20	7	0.00	-5340.51	118.09	-1597.27	3.08	3.08	48.16	1124.63
26.00	4	SLE Q	20	7	0.00	-4471.59	85.91	-1222.09	3.08	3.08	36.43	804.02
27.26	2	SLE R	20	7	126.00	-5009.76	-1531.56	550.93	3.08	3.08	70.74	1633.18
27.26	4	SLE Q	20	7	126.00	-4140.84	-1264.42	485.06	3.08	3.08	59.47	1363.53

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
26.00	4	SLE Q	20	7	0.00	-4471.59	-1222.09	85.91	39.00	208.00	0.50	14.00	171.50	3.08	205.63	804.02	0.23	0.07
26.00	3	SLE F	20	7	0.00	-4693.04	-1330.48	91.95	39.00	208.00	0.50	14.00	172.64	3.08	208.13	899.11	0.26	0.08
26.00	4	SLE Q	20	7	0.00	-4471.59	-1222.09	85.91	39.00	208.00	0.50	14.00	171.50	3.08	205.63	804.02	0.23	0.07
26.00	3	SLE F	20	7	0.00	-4693.04	-1330.48	91.95	39.00	208.00	0.50	14.00	172.64	3.08	208.13	899.11	0.26	0.08
27.26	4	SLE Q	20	7	126.00	-4140.84	485.06	-1264.42	39.00	258.00	0.50	14.00	220.61	1.54	156.81	1363.53	0.40	0.15
27.26	3	SLE F	20	7	126.00	-4362.29	504.21	-1331.39	39.00	258.00	0.50	14.00	221.60	1.54	157.90	1431.93	0.42	0.16

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>ry</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>rz</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<mm>	<mm>					<mm>	<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	
0.00	1.35	ø6/15	2	21	SLU	0.50	0.35	586.89	2.50	9277.05	32873.20	9277.05	0.40	0.45	1549.64	2.50	11920.10	33791.00	11920.10	7.692	
2.00	3.26	ø6/15	2	21	SLU	0.50	0.35	2969.69	2.50	9277.05	32713.60	9277.05	0.40	0.45	1166.11	2.50	11920.10	33627.00	11920.10	3.124	
3.50	4.35	ø6/15	2	21	SLU	0.35	0.35	1082.03	1.73	6408.99	6408.99	6408.99	0.40	0.30	1256.75	1.88	5997.35	5997.35	5997.35	4.772	
5.00	5.45	ø6/15	2	21	SLU	0.35	0.35	660.91	2.23	8275.44	8275.44	8275.44	0.40	0.30	2428.11	2.41	7681.34	7681.34	7681.34	3.164	
5.45	5.81	ø6/15	2	21	SLU	0.35	0.35	660.91	2.24	8320.64	8320.64	8320.64	0.40	0.30	2428.11	2.43	7722.27	7722.27	7722.27	3.180	
5.81	6.26	ø6/15	2	21	SLU	0.35	0.35	660.91	2.25	8356.62	8356.62	8356.62	0.40	0.30	2428.11	2.44	7754.85	7754.85	7754.85	3.194	
6.50	7.35	ø6/15	2	21	SLU	0.35	0.35	370.32	2.50	9277.05	10789.70	9277.05	0.40	0.30	51.85	2.50	7955.54	10574.50	7955.54	25.051	
8.00	8.45	ø6/15	2	21	SLU	0.35	0.35	992.99	2.50	9277.05	13054.10	9277.05	0.40	0.30	2756.82	2.50	7955.54	12793.80	7955.54	2.886	
8.45	8.81	ø6/15	2	21	SLU	0.35	0.35	992.99	2.50	9277.05	13123.80	9277.05	0.40	0.30	2756.82	2.50	7955.54	12862.10	7955.54	2.886	
8.81	9.26	ø6/15	2	21	SLU	0.35	0.35	992.99	2.50	9277.05	13179.60	9277.05	0.40	0.30	2756.82	2.50	7955.54	12916.70	7955.54	2.886	
9.50	10.35	ø6/15	2	21	SLU	0.35	0.35	329.60	2.50	9277.05	16207.30	9277.05	0.40	0.30	818.56	2.50	7955.54	15884.00	7955.54	9.719	
11.00	11.45	ø6/15	2	21	SLU	0.35	0.35	1017.35	2.50	9277.05	18300.80	9277.05	0.40	0.30	2969.32	2.50	7955.54	17935.80	7955.54	2.679	
11.45	11.81	ø6/15	2	21	SLU	0.35	0.35	1017.35	2.50	9277.05	18370.50	9277.05	0.40	0.30	2969.32	2.50	7955.54	18004.10	7955.54	2.679	
11.81	12.26	ø6/15	2	21	SLU	0.35	0.35	1017.35	2.50	9277.05	18426.30	9277.05	0.40	0.30	2969.32	2.50	7955.54	18058.80	7955.54	2.679	
12.50	13.35	ø6/15	2	21	SLU	0.35	0.35	300.94	2.50	9277.05	21466.20	9277.05	0.40	0.30	1246.64	2.50	7955.54	21038.10	7955.54	6.382	
14.00	14.45	ø6/15	2	21	SLU	0.35	0.35	1348.14	2.50	9277.05	23011.20	9277.05	0.40	0.30	3036.17	2.50	7955.54	22552.30	7955.54	2.620	
14.45	14.81	ø6/15	2	21	SLU	0.35	0.35	1348.15	2.50	9277.05	23011.20	9277.05	0.40	0.30	3036.17	2.50	7955.54	22552.30	7955.54	2.620	
14.81	15.26	ø6/15	2	21	SLU	0.35	0.35	1348.15	2.50	9277.05	23011.20	9277.05	0.40	0.30	3036.17	2.50	7955.54	22552.30	7955.54	2.620	
15.50	16.35	ø6/15	2	21	SLU	0.35	0.25	365.01	2.50	6634.02	14390.70	6634.02	0.30	0.30	1423.49	2.50	7955.54	14792.00	7955.54	5.589	
17.00	17.45	ø6/15	2	21	SLU	0.35	0.25	859.77	2.50	6634.02	16215.40	6634.02	0.30	0.30	3020.40	2.50	7955.54	16667.70	7955.54	2.634	
17.45	17.81	ø6/15	2	21	SLU	0.35	0.25	859.77	2.50	6634.02	16265.30	6634.02	0.30	0.30	3020.40	2.50	7955.54	16718.90	7955.54	2.634	
17.81	18.26	ø6/15	2	21	SLU	0.35	0.25	859.77	2.50	6634.02	16305.20	6634.02	0.30	0.30	3020.41	2.50	7955.54	16759.90	7955.54	2.634	
18.50	19.35	ø6/15	2	21	SLU	0.35	0.25	4.54	2.50	6634.02	16455.30	6634.02	0.30	0.30	1694.50	2.50	7955.54	16914.20	7955.54	4.695	
20.00	20.45	ø6/15	2	21	SLU	0.35	0.25	818.78	2.50	6634.02	16455.30	6634.02	0.30	0.30	3128.58	2.50	7955.54	16914.20	7955.54	2.543	
20.45	20.81	ø6/15	2	21	SLU	0.35	0.25	818.78	2.50	6634.02	16455.30	6634.02	0.30	0.30	3128.58	2.50	7955.54	16914.20	7955.54	2.543	
20.81	21.26	ø6/15	2	21	SLU	0.35	0.25	818.78	2.50	6634.02	16455.30	6634.02	0.30	0.30	3128.58	2.50	7955.54	16914.20	7955.54	2.543	
21.50	22.35	ø6/15	2	21	SLU	0.35	0.25	12.37	2.50	6634.02	16455.30	6634.02	0.30	0.30	1737.10	2.50	7955.54	16914.20	7955.54	4.580	
23.00	23.45	ø6/15	2	21	SLU	0.35	0.25	965.20	2.50	6634.02	16137.30	6634.02	0.30	0.30	2959.34	2.50	7955.54	16587.30	7955.54	2.688	
23.45	23.81	ø6/15	2	21	SLU	0.35	0.25	965.20	2.50	6634.02	16117.40	6634.02	0.30	0.30	2959.34	2.50	7955.54	16566.90	7955.54	2.688	
23.81	24.26	ø6/15	2	21	SLU	0.35	0.25	965.20	2.50	6634.02	16101.40	6634.02	0.30	0.30	2959.35	2.50	7955.54	16550.50	7955.54	2.688	
24.50	25.35	ø6/15	2	21	SLU	0.35	0.25	225.72	2.50	6634.02	14972.20	6634.02	0.30	0.30	599.24	2.50	7955.54	15389.70	7955.54	13.276	
26.00	26.45	ø6/15	2	21	SLU	0.35	0.25	1860.76	2.50	6634.02	14137.60	6634.02	0.30	0.30	2366.74	2.50	7955.54	14531.90	7955.54	3.361	
26.45	26.81	ø6/15	2	21	SLU	0.35	0.25	1860.76	2.50	6634.02	14117.70	6634.02	0.30	0.30	2366.74	2.50	7955.54	14511.40	7955.54	3.361	
26.81	27.26	ø6/15	2	21	SLU	0.35	0.25	1860.76	2.50	6634.02	14101.70	6634.02	0.30	0.30	2366.75	2.50	7955.54	14495.00	7955.54	3.361	

Pilastrata n. 46

Nodi: 46 346 546 746 946 1146 1346 1546 1746 1946

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1	R	40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.	
0.00	1	(e)	SLU	1	1	0.00	-131982.00	432.45	2639.65	-59.13	-2639.65	-333837.00	13238.50	-13197.00	303.75	2.04	2.529
0.00	1	(e)	SLU	1	1	0.00	-131982.00	432.45	2639.65	-59.13	-2639.65	-333837.00	13238.50	-13197.00	303.75	2.04	2.529
3.26	1	(e)	SLU	1	1	326.00	-129863.00	226.40	2597.27	-52.36	-2597.27	-333837.00	13230.00	-13184.20	303.75	2.08	2.571
3.50	1	(e)	SLU	2	10	0.00	-116351.00	203.60	2327.02	294.14	2327.02	-246592.00	8180.51	8251.38	37.97	1.44	2.122
3.50	1	(e)	SLU	2	10	0.00	-116351.00	203.60	2327.02	294.14	2327.02	-246592.00	7603.99	7729.21	40.78	1.36	2.027
6.26	1	(e)	SLU	2	10	276.00	-115095.00	59.16	2301.90	-285.91	-2301.90	-235893.00	7633.12	-7752.79	319.22	1.38	2.050
6.50	1	(e)	SLU	3	10	0.00	-101633.00	91.07	2032.67	155.36	2032.67	-235893.00	7846.82	7938.89	40.78	1.68	2.321
6.50	1	(e)	SLU	3	10	0.00	-101633.00	91.07	2032.67	155.36	2032.67	-235893.00	7846.82	7938.89	40.78	1.68	2.321
9.26	1	(e)	SLU	3	10	276.00	-100378.00	1.57	2007.55	-214.95	-2007.55	-235893.00	7861.51	-7950.72	319.22	1.71	2.350
9.50	1	(e)	SLU	4	10	0.00	-86950.30	37.23	1739.01	247.95	1739.01	-235893.00	7857.02	7883.73	40.78	2.06	2.713
9.50	1	(e)	SLU	4	10	0.00	-86950.30	37.23	1739.01	247.95	1739.01	-235893.00	7857.02	7883.73	40.78	2.06	2.713



Relazione di calcolo

12.26	1(e)	SLU	4	10	276.00	-85694.50	-25.81	-1713.89	-267.55	-1713.89	-235893.00	-7849.25	-7868.97	220.78	2.10	2.753
12.50	1(e)	SLU	5	10	0.00	-72289.20	10.82	1445.78	234.42	1445.78	-235893.00	7725.81	7667.90	40.78	2.50	3.263
12.50	1(e)	SLU	5	10	0.00	-72289.20	10.82	1445.78	234.42	1445.78	-235893.00	7725.81	7667.90	40.78	2.50	3.263
15.26	1(e)	SLU	5	10	276.00	-71033.40	-10.48	-1420.67	-273.38	-1420.67	-235893.00	-7708.71	-7642.89	220.78	2.55	3.321
15.50	1(e)	SLU	6	7	0.00	-57502.10	30.92	1150.04	24.07	1150.04	-185194.00	5409.43	5249.47	56.25	2.27	3.221
15.50	1(e)	SLU	6	7	0.00	-57502.10	30.92	1150.04	24.07	1150.04	-174161.00	4924.84	4973.83	53.44	2.22	3.029
18.26	1(e)	SLU	6	7	276.00	-56560.30	92.36	1131.21	-53.01	-1131.21	-174161.00	4914.22	-4958.16	306.56	2.26	3.079
18.50	1(e)	SLU	7	7	0.00	-42939.80	161.04	858.80	52.88	858.80	-174161.00	4694.27	4616.63	53.44	2.95	4.056
18.50	1(e)	SLU	7	7	0.00	-42939.80	161.04	858.80	52.88	858.80	-174161.00	4694.27	4616.63	53.44	2.95	4.056
21.26	1(e)	SLU	7	7	276.00	-41998.00	184.53	839.96	-59.30	-839.96	-174161.00	4674.63	-4588.32	306.56	3.00	4.147
21.50	1(e)	SLU	8	7	0.00	-28407.70	341.27	568.15	85.57	568.15	-174161.00	4155.53	4230.68	54.84	3.92	6.131
21.50	1(e)	SLU	8	7	0.00	-28407.70	341.27	568.15	85.57	568.15	-174161.00	4155.53	4230.68	54.84	3.92	6.131
24.26	1(e)	SLU	8	7	276.00	-27465.80	163.85	549.32	-69.59	-549.32	-174161.00	4124.89	-4194.45	305.16	4.00	6.341
24.50	1(e)	SLU	9	7	0.00	-13892.90	477.11	477.11	206.93	277.86	-13892.90	4496.12	2665.87	36.56	5.84	9.467
24.50	1(e)	SLU	9	7	0.00	-13892.90	477.11	477.11	206.93	277.86	-13892.90	4496.12	2665.87	36.56	5.84	9.467
27.26	1(e)	SLU	9	7	276.00	-12951.00	-364.73	-364.73	-200.62	-259.02	-12951.00	-4169.81	-3043.00	225.00	5.54	11.539

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ <sub>c</sub>	σ <sub>t</sub>
<m>					<m>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	1	0.00	-93112.90	-39.40	332.97	0.00	12.31	44.64	663.82
0.00	4	SLE Q	1	1	0.00	-81693.90	-24.66	302.39	0.00	12.31	39.15	582.31
0.00	2	SLE R	1	1	0.00	-93112.90	-39.40	332.97	0.00	12.31	44.64	663.82
0.00	4	SLE Q	1	1	0.00	-81693.90	-24.66	302.39	0.00	12.31	39.15	582.31
3.26	2	SLE R	1	1	326.00	-91482.90	-39.84	172.53	0.00	12.31	43.05	642.31
3.26	4	SLE Q	1	1	326.00	-80063.90	-47.26	153.63	0.00	12.31	37.77	563.26
3.50	2	SLE R	2	10	0.00	-82026.80	208.20	152.49	0.00	12.31	55.27	816.10
3.50	4	SLE Q	2	10	0.00	-71772.10	192.15	127.36	0.00	12.31	48.38	714.42
3.50	2	SLE R	2	10	0.00	-82026.80	208.20	152.49	0.00	9.24	56.92	840.55
3.50	4	SLE Q	2	10	0.00	-71772.10	192.15	127.36	0.00	9.24	49.83	735.87
6.26	2	SLE R	2	10	276.00	-81060.80	-204.07	49.99	0.00	9.24	55.17	818.73
6.26	4	SLE Q	2	10	276.00	-70806.10	-195.46	52.95	0.00	9.24	48.45	718.14
6.50	2	SLE R	3	10	0.00	-71643.00	113.51	68.41	0.00	9.24	48.38	719.03
6.50	4	SLE Q	3	10	0.00	-62563.60	123.98	54.34	0.00	9.24	42.43	630.03
6.50	2	SLE R	3	10	0.00	-71643.00	113.51	68.41	0.00	9.24	48.38	719.03
6.50	4	SLE Q	3	10	0.00	-62563.60	123.98	54.34	0.00	9.24	42.43	630.03
9.26	2	SLE R	3	10	276.00	-70677.00	-156.24	6.86	0.00	9.24	47.51	707.17
9.26	4	SLE Q	3	10	276.00	-61597.60	-164.33	14.21	0.00	9.24	41.76	620.40
9.50	2	SLE R	4	10	0.00	-61283.40	180.39	28.40	0.00	9.24	41.86	620.77
9.50	4	SLE Q	4	10	0.00	-53384.20	190.01	19.62	0.00	9.24	36.73	543.80
9.50	2	SLE R	4	10	0.00	-61283.40	180.39	28.40	0.00	9.24	41.86	620.77
9.50	4	SLE Q	4	10	0.00	-53384.20	190.01	19.62	0.00	9.24	36.73	543.80
12.26	2	SLE R	4	10	276.00	-60317.40	-194.73	-13.74	0.00	9.24	41.22	611.23
12.26	4	SLE Q	4	10	276.00	-52418.20	-204.24	-3.97	0.00	9.24	36.07	534.13
12.50	2	SLE R	5	10	0.00	-50939.40	172.55	8.48	0.00	9.24	34.85	516.73
12.50	4	SLE Q	5	10	0.00	-44224.50	193.44	2.28	0.00	9.24	30.62	452.86
12.50	2	SLE R	5	10	0.00	-50939.40	172.55	8.48	0.00	9.24	34.85	516.73
12.50	4	SLE Q	5	10	0.00	-44224.50	193.44	2.28	0.00	9.24	30.62	452.86
15.26	2	SLE R	5	10	276.00	-49973.40	-201.32	-2.83	0.00	9.24	34.44	509.84
15.26	4	SLE Q	5	10	276.00	-43258.50	-221.94	5.99	0.00	9.24	30.31	447.03
15.50	2	SLE R	6	7	0.00	-40507.00	20.80	23.04	0.00	9.24	34.74	518.30
15.50	4	SLE Q	6	7	0.00	-34987.70	47.28	16.04	0.00	9.24	30.45	452.26
15.50	2	SLE R	6	7	0.00	-40507.00	20.80	23.04	0.00	6.16	36.14	539.18
15.50	4	SLE Q	6	7	0.00	-34987.70	47.28	16.04	0.00	6.16	31.66	470.26
18.26	2	SLE R	6	7	276.00	-39782.50	-42.35	72.24	0.00	6.16	36.57	541.22
18.26	4	SLE Q	6	7	276.00	-34263.20	-70.11	69.75	0.00	6.16	32.17	473.24
18.50	2	SLE R	7	7	0.00	-30255.00	42.93	117.80	0.00	6.16	28.89	423.42
18.50	4	SLE Q	7	7	0.00	-25945.10	77.97	95.99	0.00	6.16	25.40	369.54
18.50	2	SLE R	7	7	0.00	-30255.00	42.93	117.80	0.00	6.16	28.89	423.42
18.50	4	SLE Q	7	7	0.00	-25945.10	77.97	95.99	0.00	6.16	25.40	369.54
21.26	2	SLE R	7	7	276.00	-29530.50	-47.45	139.54	0.00	6.16	28.64	418.13
21.26	4	SLE Q	7	7	276.00	-25220.60	-81.00	124.35	0.00	6.16	25.22	365.04
21.50	2	SLE R	8	7	0.00	-20024.20	66.13	250.07	0.00	6.16	22.22	314.04
21.50	4	SLE Q	8	7	0.00	-16921.50	98.04	206.63	0.00	6.16	19.42	272.05
21.50	2	SLE R	8	7	0.00	-20024.20	66.13	250.07	0.00	6.16	22.22	314.04
21.50	4	SLE Q	8	7	0.00	-16921.50	98.04	206.63	0.00	6.16	19.42	272.05
24.26	2	SLE R	8	7	276.00	-19299.70	-54.01	122.53	0.00	6.16	19.56	282.26
24.26	4	SLE Q	8	7	276.00	-16197.00	-84.87	104.31	0.00	6.16	17.10	244.07
24.50	2	SLE R	9	7	0.00	-9805.23	156.86	346.03	0.00	6.16	16.18	210.96
24.50	4	SLE Q	9	7	0.00	-7907.55	188.62	278.33	0.00	6.16	14.09	180.94
24.50	2	SLE R	9	7	0.00	-9805.23	156.86	346.03	0.00	6.16	16.18	210.96
24.50	4	SLE Q	9	7	0.00	-7907.55	188.62	278.33	0.00	6.16	14.09	180.94
27.26	2	SLE R	9	7	276.00	-9080.73	-153.90	-266.58	0.00	6.16	14.36	188.38
27.26	4	SLE Q	9	7	276.00	-7183.05	-194.27	-223.04	0.00	6.16	12.76	163.69

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<m>	<m>						<m>	<m>	<daN>		<daN>	<daN>	<daN>	<m>	<m>	<daN>		<daN>	<daN>	<daN>	
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	2.07	2.50	12369.40	20818.20	12369.40	0.40	0.45	63.21	2.50	15893.50	21399.50	15893.50	>100	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	2.07	2.50	12369.40	20938.40	12369.40	0.40	0.45	63.21	2.50	15893.50	21523.10	15893.50	>100	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	2.07	2.50	12369.40	21419.30	12369.40	0.40	0.45	63.20	2.50	15893.50	22017.40	15893.50	>100	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	210.16	2.00	7434.28	7434.28	7434.28	0.40	0.30	52.34	2.17	6920.76	6920.76	6920.76	35.374	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	210.16	2.02	7485.67	7485.67	7485.67	0.40	0.30	52.34	2.19	6967.17	6967.17	6967.17	35.619	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	210.16	2.07	7687.79	7687.80	7687.79	0.40	0.30	52.34	2.25	7149.75	7149.75	7149.75	36.580	



Relazione di calcolo

6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	134.17	2.50	9277.05	11425.40	9277.05	0.40	0.30	32.43	2.50	7955.54	11197.60	7955.54	69.143
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	134.17	2.50	9277.05	11496.70	9277.05	0.40	0.30	32.43	2.50	7955.54	11267.40	7955.54	69.143
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	134.17	2.50	9277.05	11781.70	9277.05	0.40	0.30	32.43	2.50	7955.54	11546.70	7955.54	69.143
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	186.78	2.50	9277.05	16423.70	9277.05	0.40	0.30	22.84	2.50	7955.54	16096.20	7955.54	49.670
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	186.78	2.50	9277.05	16495.00	9277.05	0.40	0.30	22.84	2.50	7955.54	16166.00	7955.54	49.670
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	186.78	2.50	9277.05	16780.00	9277.05	0.40	0.30	22.84	2.50	7955.54	16445.30	7955.54	49.670
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	183.99	2.50	9277.05	21414.50	9277.05	0.40	0.30	7.72	2.50	7955.54	20987.40	7955.54	50.423
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	183.99	2.50	9277.05	21485.70	9277.05	0.40	0.30	7.72	2.50	7955.54	21057.20	7955.54	50.423
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	183.99	2.50	9277.05	21770.70	9277.05	0.40	0.30	7.72	2.50	7955.54	21336.60	7955.54	50.423
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	27.93	2.50	6634.02	14247.20	6634.02	0.30	0.30	22.26	2.50	7955.54	14644.50	7955.54	>100
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	27.93	2.50	6634.02	14298.20	6634.02	0.30	0.30	22.26	2.50	7955.54	14696.90	7955.54	>100
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	27.93	2.50	6634.02	14502.00	6634.02	0.30	0.30	22.26	2.50	7955.54	14906.40	7955.54	>100
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	40.64	2.50	6634.02	16455.30	6634.02	0.30	0.30	8.51	2.50	7955.54	16914.20	7955.54	>100
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	40.64	2.50	6634.02	16455.30	6634.02	0.30	0.30	8.51	2.50	7955.54	16914.20	7955.54	>100
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	40.64	2.50	6634.02	16455.30	6634.02	0.30	0.30	8.51	2.50	7955.54	16914.20	7955.54	>100
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	56.22	2.50	6634.02	16455.30	6634.02	0.30	0.30	64.28	2.50	7955.54	16914.20	7955.54	>100
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	56.22	2.50	6634.02	16455.30	6634.02	0.30	0.30	64.28	2.50	7955.54	16914.20	7955.54	>100
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	56.22	2.50	6634.02	16455.30	6634.02	0.30	0.30	64.28	2.50	7955.54	16914.20	7955.54	>100
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	147.66	2.50	6634.02	14967.90	6634.02	0.30	0.30	305.01	2.50	7955.54	15385.40	7955.54	26.082
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	147.66	2.50	6634.02	14947.50	6634.02	0.30	0.30	305.01	2.50	7955.54	15364.40	7955.54	26.082
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	147.66	2.50	6634.02	14866.00	6634.02	0.30	0.30	305.01	2.50	7955.54	15280.60	7955.54	26.082

Pilastrata n. 47

Nodi: 47 347 547 747 947 1147 1347 1547 1747 1947

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm<sup>q>cmq>	Fctm <daN/cm<sup>q>cmq>	Fcd <daN/cm<sup>q>cmq>	Fcd (Tag) <daN/cm<sup>q>cmq>	Fctd <daN/cm<sup>q>cmq>	Fym <daN/cm<sup>q>cmq>	Fyd <daN/cm<sup>q>cmq>	Fyd (Tag) <daN/cm<sup>q>cmq>
1R		40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-139180.00	-130.47	-2783.61	-62.87	-2783.61	-333837.00	-13254.50	-13201.50	236.25	1.91	2.399
0.00	1(e)	SLU	1	1	0.00	-139180.00	-130.47	-2783.61	-62.87	-2783.61	-333837.00	-13254.50	-13201.50	236.25	1.91	2.399
3.26	1(e)	SLU	1	1	326.00	-137061.00	731.02	2741.23	5.98	2741.23	-333837.00	13250.30	13203.70	56.25	1.95	2.436
3.50	1(e)	SLU	2	10	0.00	-122218.00	-95.69	-2444.36	91.47	2444.36	-246925.00	-8045.71	8140.94	142.03	1.32	2.020
3.50	1(e)	SLU	2	10	0.00	-122218.00	-95.69	-2444.36	91.47	2444.36	-235893.00	-7460.55	7610.82	139.22	1.23	1.930
6.26	1(e)	SLU	2	10	276.00	-120962.00	421.04	2419.24	-88.65	-2419.24	-235893.00	7492.07	-7636.97	319.22	1.26	1.950
6.50	1(e)	SLU	3	10	0.00	-106343.00	-134.38	-2126.85	-20.06	-2126.85	-235893.00	-7781.99	-7883.25	220.78	1.58	2.218
6.50	1(e)	SLU	3	10	0.00	-106343.00	-134.38	-2126.85	-20.06	-2126.85	-235893.00	-7781.99	-7883.25	220.78	1.58	2.218
9.26	1(e)	SLU	3	10	276.00	-105087.00	256.83	2101.74	-10.90	-2101.74	-235893.00	7799.57	-7898.35	319.22	1.60	2.245
9.50	1(e)	SLU	4	10	0.00	-90546.20	-192.98	-1810.92	-15.58	-1810.92	-235893.00	-7869.61	-7914.66	220.78	1.97	2.605
9.50	1(e)	SLU	4	10	0.00	-90546.20	-192.98	-1810.92	-15.58	-1810.92	-235893.00	-7869.61	-7914.66	220.78	1.97	2.605
12.26	1(e)	SLU	4	10	276.00	-89290.40	215.60	1785.81	-2.53	-1785.81	-235893.00	7866.01	-7904.76	319.22	2.00	2.642
12.50	1(e)	SLU	5	10	0.00	-74797.30	-214.21	-1495.95	-54.69	-1495.95	-235893.00	-7756.60	-7714.07	220.78	2.42	3.154
12.50	1(e)	SLU	5	10	0.00	-74797.30	-214.21	-1495.95	-54.69	-1495.95	-235893.00	-7756.60	-7714.07	220.78	2.42	3.154
15.26	1(e)	SLU	5	10	276.00	-73541.50	254.52	1470.83	16.45	1470.83	-235893.00	7742.61	7692.64	40.78	2.46	3.208
15.50	1(e)	SLU	6	7	0.00	-59074.40	-134.82	-1181.49	-132.83	-1181.49	-185194.00	-5412.66	-5274.77	236.25	2.21	3.135
15.50	1(e)	SLU	6	7	0.00	-59074.40	-134.82	-1181.49	-132.83	-1181.49	-174161.00	-4941.78	-4998.16	233.44	2.15	2.948
18.26	1(e)	SLU	6	7	276.00	-58132.50	339.18	1162.65	112.38	1162.65	-174161.00	4931.66	4983.62	53.44	2.19	2.996
18.50	1(e)	SLU	7	7	0.00	-43788.00	214.04	875.76	-138.14	-875.76	-174161.00	4711.99	-4642.20	306.56	2.90	3.977
18.50	1(e)	SLU	7	7	0.00	-43788.00	214.04	875.76	-138.14	-875.76	-174161.00	4711.99	-4642.20	306.56	2.90	3.977
21.26	1(e)	SLU	7	7	276.00	-42846.10	303.54	856.92	132.70	856.92	-174161.00	4692.31	4613.81	53.44	2.95	4.065
21.50	1(e)	SLU	8	7	0.00	-28723.50	774.96	774.96	-124.25	-574.47	-174161.00	4836.48	-3696.85	312.19	3.89	6.063
21.50	1(e)	SLU	8	7	0.00	-28723.50	774.96	774.96	-124.25	-574.47	-174161.00	4836.48	-3696.85	312.19	3.89	6.063
24.26	1(e)	SLU	8	7	276.00	-27781.60	12.54	555.63	134.06	555.63	-174161.00	4135.19	4206.63	54.84	3.98	6.269
24.50	1(e)	SLU	9	7	0.00	-13985.70	1417.20	1417.20	-21.00	279.71	-13985.70	5031.05	1012.38	9.84	9.98	3.553
24.50	1(e)	SLU	9	7	0.00	-13985.70	1417.20	1417.20	-21.00	279.71	-13985.70	5031.05	1012.38	9.84	9.98	3.553
27.26	1(e)	SLU	9	7	276.00	-13043.90	-1281.76	-1281.76	44.30	260.88	-13043.90	-4910.16	1021.62	170.16	10.26	3.834

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cm>	σ <sub>r</sub> <daN/cm>
0.00	2	SLE R	1	1	0.00	-98549.60	-42.71	-92.54	0.00	12.31	45.88	685.89
0.00	4	SLE Q	1	1	0.00	-87304.10	-31.63	-97.44	0.00	12.31	40.69	608.14
0.00	2	SLE R	1	1	0.00	-98549.60	-42.71	-92.54	0.00	12.31	45.88	685.89
0.00	4	SLE Q	1	1	0.00	-87304.10	-31.63	-97.44	0.00	12.31	40.69	608.14
3.26	2	SLE R	1	1	326.00	-96919.60	2.42	560.26	0.00	12.31	47.33	701.77
3.26	4	SLE Q	1	1	326.00	-85674.10	-3.60	535.94	0.00	12.31	42.06	623.08
3.50	2	SLE R	2	10	0.00	-86464.40	63.31	-74.90	0.00	12.31	55.93	833.81
3.50	4	SLE Q	2	10	0.00	-76410.20	54.06	-90.51	0.00	12.31	49.66	739.49
3.50	2	SLE R	2	10	0.00	-86464.40	63.31	-74.90	0.00	9.24	57.60	858.73
3.50	4	SLE Q	2	10	0.00	-76410.20	54.06	-90.51	0.00	9.24	51.14	761.50
6.26	2	SLE R	2	10	276.00	-85498.40	-62.14	324.41	0.00	9.24	59.59	878.27
6.26	4	SLE Q	2	10	276.00	-75444.20	-55.38	312.23	0.00	9.24	52.86	778.08
6.50	2	SLE R	3	10	0.00	-75212.00	-14.98	-106.44	0.00	9.24	50.15	747.35
6.50	4	SLE Q	3	10	0.00	-66344.20	-13.85	-118.90	0.00	9.24	44.51	662.22
6.50	2	SLE R	3	10	0.00	-75212.00	-14.98	-106.44	0.00	9.24	50.15	747.35
6.50	4	SLE Q	3	10	0.00	-66344.20	-13.85	-118.90	0.00	9.24	44.51	662.22
9.26	2	SLE R	3	10	276.00	-74246.00	-7.08	202.69	0.00	9.24	50.46	748.27
9.26	4	SLE Q	3	10	276.00	-65378.20	-6.60	202.87	0.00	9.24	44.70	661.79
9.50	2	SLE R	4	10	0.00	-64020.20	-12.01	-148.57	0.00	9.24	43.29	642.82
9.50	4	SLE Q	4	10	0.00	-56341.80	-11.37	-148.23	0.00	9.24	38.29	567.84
9.50	2	SLE R	4	10	0.00	-64020.20	-12.01	-148.57	0.00	9.24	43.29	642.82
9.50	4	SLE Q	4	10	0.00	-56341.80	-11.37	-148.23	0.00	9.24	38.29	567.84
12.26	2	SLE R	4	10	276.00	-63054.20	-1.05	170.74	0.00	9.24	42.79	634.77



Relazione di calcolo

12.264	SLE Q	4	10	276.00	-55375.80	-0.80	169.44	0.00	9.24	37.79	559.73
12.502	SLE R	5	10	0.00	-52865.30	-40.00	-164.13	0.00	9.24	36.47	538.98
12.504	SLE Q	5	10	0.00	-46381.20	-34.82	-157.63	0.00	9.24	32.14	474.43
12.502	SLE R	5	10	0.00	-52865.30	-40.00	-164.13	0.00	9.24	36.47	538.98
12.504	SLE Q	5	10	0.00	-46381.20	-34.82	-157.63	0.00	9.24	32.14	474.43
15.262	SLE R	5	10	276.00	-51899.30	12.56	198.84	0.00	9.24	35.95	530.56
15.264	SLE Q	5	10	276.00	-45415.20	10.64	190.82	0.00	9.24	31.63	466.20
15.502	SLE R	6	7	0.00	-41730.20	-95.84	-104.00	0.00	9.24	38.13	558.96
15.504	SLE Q	6	7	0.00	-36442.20	-83.04	-98.72	0.00	9.24	33.39	489.18
15.502	SLE R	6	7	0.00	-41730.20	-95.84	-104.00	0.00	6.16	39.63	581.21
15.504	SLE Q	6	7	0.00	-36442.20	-83.04	-98.72	0.00	6.16	34.71	508.69
18.262	SLE R	6	7	276.00	-41005.70	81.15	258.50	0.00	6.16	40.96	593.51
18.264	SLE Q	6	7	276.00	-35717.70	70.53	234.34	0.00	6.16	35.80	518.39
18.502	SLE R	7	7	0.00	-30928.40	-100.04	151.92	0.00	6.16	30.93	447.68
18.504	SLE Q	7	7	0.00	-26829.30	-86.32	122.56	0.00	6.16	26.70	386.81
18.502	SLE R	7	7	0.00	-30928.40	-100.04	151.92	0.00	6.16	30.93	447.68
18.504	SLE Q	7	7	0.00	-26829.30	-86.32	122.56	0.00	6.16	26.70	386.81
21.262	SLE R	7	7	276.00	-30203.90	96.03	231.21	0.00	6.16	31.36	449.99
21.264	SLE Q	7	7	276.00	-26104.80	82.78	204.19	0.00	6.16	27.17	389.56
21.502	SLE R	8	7	0.00	-20291.30	-89.94	564.69	0.00	6.16	27.35	371.41
21.504	SLE Q	8	7	0.00	-17362.40	-76.51	472.20	0.00	6.16	23.23	315.98
21.502	SLE R	8	7	0.00	-20291.30	-89.94	564.69	0.00	6.16	27.35	371.41
21.504	SLE Q	8	7	0.00	-17362.40	-76.51	472.20	0.00	6.16	23.23	315.98
24.262	SLE R	8	7	276.00	-19566.80	97.08	14.03	0.00	6.16	18.97	276.21
24.264	SLE Q	8	7	276.00	-16637.90	82.52	11.34	0.00	6.16	16.12	234.76
24.502	SLE R	9	7	0.00	-9895.45	-14.32	1031.96	3.08	3.08	25.76	312.44
24.504	SLE Q	9	7	0.00	-8102.24	-10.17	851.49	3.08	3.08	21.21	256.95
24.502	SLE R	9	7	0.00	-9895.45	-14.32	1031.96	3.08	3.08	25.76	312.44
24.504	SLE Q	9	7	0.00	-8102.24	-10.17	851.49	3.08	3.08	21.21	256.95
27.262	SLE R	9	7	276.00	-9170.95	31.36	-931.36	3.08	3.08	23.69	288.12
27.264	SLE Q	9	7	276.00	-7377.74	26.08	-770.08	3.08	3.08	19.58	236.84

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<m>	<m>						<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	21.12	2.50	12369.40	18368.00	12369.40	0.40	0.45	264.26	2.50	15893.50	18880.80	15893.50	60.143	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	21.12	2.50	12369.40	18488.20	12369.40	0.40	0.45	264.26	2.50	15893.50	19004.40	15893.50	60.143	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	21.12	2.50	12369.40	18969.10	12369.40	0.40	0.45	264.26	2.50	15893.50	19498.70	15893.50	60.143	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	65.26	1.57	5811.80	5811.80	5811.80	0.40	0.30	187.22	1.72	5462.09	5462.09	5462.09	29.175	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	65.26	1.58	5877.39	5877.39	5877.39	0.40	0.30	187.22	1.73	5520.76	5520.76	5520.76	29.488	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	65.26	1.65	6132.75	6132.75	6132.75	0.40	0.30	187.22	1.81	5749.47	5749.47	5749.47	30.710	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	3.32	2.50	9277.05	9822.37	9277.05	0.40	0.30	141.74	2.50	7955.54	9626.48	7955.54	56.127	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	3.32	2.50	9277.05	9893.61	9277.05	0.40	0.30	141.74	2.50	7955.54	9696.31	7955.54	56.127	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	3.32	2.50	9277.05	10178.60	9277.05	0.40	0.30	141.74	2.50	7955.54	9975.62	7955.54	56.127	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	4.73	2.50	9277.05	15199.60	9277.05	0.40	0.30	148.04	2.50	7955.54	14896.50	7955.54	53.740	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	4.73	2.50	9277.05	15270.90	9277.05	0.40	0.30	148.04	2.50	7955.54	14966.30	7955.54	53.740	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	4.73	2.50	9277.05	15555.90	9277.05	0.40	0.30	148.04	2.50	7955.54	15245.60	7955.54	53.740	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	25.78	2.50	9277.05	20560.70	9277.05	0.40	0.30	169.83	2.50	7955.54	20150.60	7955.54	46.844	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	25.78	2.50	9277.05	20631.90	9277.05	0.40	0.30	169.83	2.50	7955.54	20220.50	7955.54	46.844	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	25.78	2.50	9277.05	20916.90	9277.05	0.40	0.30	169.83	2.50	7955.54	20499.80	7955.54	46.844	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	88.84	2.50	6634.02	13736.90	6634.02	0.30	0.30	171.74	2.50	7955.54	14120.00	7955.54	46.323	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	88.84	2.50	6634.02	13787.90	6634.02	0.30	0.30	171.74	2.50	7955.54	14172.40	7955.54	46.323	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	88.84	2.50	6634.02	13991.70	6634.02	0.30	0.30	171.74	2.50	7955.54	14381.90	7955.54	46.323	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	98.13	2.50	6634.02	16455.30	6634.02	0.30	0.30	32.43	2.50	7955.54	16914.20	7955.54	67.605	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	98.13	2.50	6634.02	16455.30	6634.02	0.30	0.30	32.43	2.50	7955.54	16914.20	7955.54	67.605	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	98.13	2.50	6634.02	16455.30	6634.02	0.30	0.30	32.43	2.50	7955.54	16914.20	7955.54	67.605	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	93.59	2.50	6634.02	16455.30	6634.02	0.30	0.30	276.24	2.50	7955.54	16914.20	7955.54	28.799	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	93.59	2.50	6634.02	16455.30	6634.02	0.30	0.30	276.24	2.50	7955.54	16914.20	7955.54	28.799	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	93.59	2.50	6634.02	16455.30	6634.02	0.30	0.30	276.24	2.50	7955.54	16914.20	7955.54	28.799	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	23.66	2.50	6634.02	14980.00	6634.02	0.30	0.30	977.88	2.50	7955.54	15397.80	7955.54	8.135	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	23.66	2.50	6634.02	14959.60	6634.02	0.30	0.30	977.88	2.50	7955.54	15376.80	7955.54	8.135	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	23.66	2.50	6634.02	14878.10	6634.02	0.30	0.30	977.88	2.50	7955.54	15293.00	7955.54	8.135	

Pilastrata n. 48

Nodi: 148 348 548 748 948 1148 1348 1548 1748 1948

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
1	R	40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>x</sub>	Sic.
0.00	1 (e)	SLU	1	1	0.00	-133306.00	412.24	2666.11	129.17	2666.11	-333837.00	13242.00	13199.40	56.25	2.02	2.504
0.00	1 (e)	SLU	1	1	0.00	-133306.00	412.24	2666.11	129.17	2666.11	-333837.00	13242.00	13199.40	56.25	2.02	2.504
3.26	1 (e)	SLU	1	1	326.00	-131187.00	219.18	2623.73	-64.37	-2623.73	-333837.00	13235.40	-13192.30	303.75	2.06	2.545
3.50	1 (e)	SLU	2	10	0.00	-117543.00	164.19	2350.85	-9.05	-2350.85	-246925.00	8155.48	-8231.59	322.03	1.42	2.101
3.50	1 (e)	SLU	2	10	0.00	-117543.00	164.19	2350.85	-9.05	-2350.85	-235893.00	7575.42	-7705.62	319.22	1.33	2.007
6.26	1 (e)	SLU	2	10	276.00	-116287.00	137.32	2325.74	-10.10	-2325.74	-235893.00	7605.51	-7730.42	319.22	1.36	2.029
6.50	1 (e)	SLU	3	10	0.00	-102660.00	97.77	2053.21	-41.38	-2053.21	-235893.00	7832.92	-7926.97	319.22	1.66	2.298
6.50	1 (e)	SLU	3	10	0.00	-102660.00	97.77	2053.21	-41.38	-2053.21	-235893.00	7832.92	-7926.97	319.22	1.66	2.298
9.26	1 (e)	SLU	3	10	276.00	-101405.00	40.80	2028.09	28.79	2028.09	-235893.00	7849.89	7941.52	40.78	1.69	2.326
9.50	1 (e)	SLU	4	10	0.00	-87738.70	19.68	1754.77	-82.54	-1754.77	-235893.00	7861.38	-7892.42	319.22	2.04	2.689



Relazione di calcolo

9.50	1(e)	SLU	4	10	0.00	-87738.70	19.68	1754.77	-82.54	-1754.77	-235893.00	7861.38	-7892.42	319.22	2.04	2.689
12.26	1(e)	SLU	4	10	276.00	-86482.90	14.77	1729.66	64.10	1729.66	-235893.00	7854.16	7878.26	40.78	2.08	2.728
12.50	1(e)	SLU	5	10	0.00	-72797.00	3.20	1455.94	-125.92	-1455.94	-235893.00	7732.60	-7677.90	319.22	2.49	3.240
12.50	1(e)	SLU	5	10	0.00	-72797.00	3.20	1455.94	-125.92	-1455.94	-235893.00	7732.60	-7677.90	319.22	2.49	3.240
15.26	1(e)	SLU	5	10	276.00	-71541.20	53.86	1430.82	92.58	1430.82	-235893.00	7715.66	7653.03	40.78	2.53	3.297
15.50	1(e)	SLU	6	7	0.00	-57837.50	54.21	1156.75	-183.71	-1156.75	-185194.00	5410.06	-5254.84	303.75	2.25	3.202
15.50	1(e)	SLU	6	7	0.00	-57837.50	54.21	1156.75	-183.71	-1156.75	-174161.00	4928.48	-4979.04	306.56	2.20	3.011
18.26	1(e)	SLU	6	7	276.00	-56895.70	195.41	1137.91	166.94	1137.91	-174161.00	4918.25	4964.36	53.44	2.24	3.061
18.50	1(e)	SLU	7	7	0.00	-43204.70	251.93	864.09	-195.80	-864.09	-174161.00	4699.80	-4624.61	306.56	2.93	4.031
18.50	1(e)	SLU	7	7	0.00	-43204.70	251.93	864.09	-195.80	-864.09	-174161.00	4699.80	-4624.61	306.56	2.93	4.031
21.26	1(e)	SLU	7	7	276.00	-42262.80	335.51	845.26	188.46	845.26	-174161.00	4680.15	4596.27	53.44	2.98	4.121
21.50	1(e)	SLU	8	7	0.00	-28567.40	505.43	571.35	-185.76	-571.35	-174161.00	4160.70	-4236.79	305.16	3.91	6.097
21.50	1(e)	SLU	8	7	0.00	-28567.40	505.43	571.35	-185.76	-571.35	-174161.00	4160.70	-4236.79	305.16	3.91	6.097
24.26	1(e)	SLU	8	7	276.00	-27625.50	257.04	552.51	195.63	552.51	-174161.00	4130.10	4200.61	54.84	3.99	6.304
24.50	1(e)	SLU	9	7	0.00	-13925.10	528.00	528.00	-74.00	-278.50	-13925.10	4632.83	-2394.82	329.06	6.25	8.736
24.50	1(e)	SLU	9	7	0.00	-13925.10	528.00	528.00	-74.00	-278.50	-13925.10	4632.83	-2394.82	329.06	6.25	8.736
27.26	1(e)	SLU	9	7	276.00	-12983.20	-295.13	-295.13	98.42	259.66	-12983.20	-3834.86	3423.85	127.97	5.36	13.078

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>s</sub> <daN/cmq>
0.00	2	SLE R	1	1	0.00	-94074.10	91.44	306.49	0.00	12.31	45.29	672.72
0.00	4	SLE Q	1	1	0.00	-82881.40	81.72	274.72	0.00	12.31	39.93	593.08
0.00	2	SLE R	1	1	0.00	-94074.10	91.44	306.49	0.00	12.31	45.29	672.72
0.00	4	SLE Q	1	1	0.00	-82881.40	81.72	274.72	0.00	12.31	39.93	593.08
3.26	2	SLE R	1	1	326.00	-92444.10	-45.70	168.44	0.00	12.31	43.51	649.10
3.26	4	SLE Q	1	1	326.00	-81251.40	-41.51	151.88	0.00	12.31	38.27	570.86
3.50	2	SLE R	2	10	0.00	-82895.30	-9.45	126.64	0.00	12.31	53.73	800.39
3.50	4	SLE Q	2	10	0.00	-72869.10	-12.89	112.20	0.00	12.31	47.28	704.17
3.50	2	SLE R	2	10	0.00	-82895.30	-9.45	126.64	0.00	9.24	55.30	824.00
3.50	4	SLE Q	2	10	0.00	-72869.10	-12.89	112.20	0.00	9.24	48.67	724.94
6.26	2	SLE R	2	10	276.00	-81929.30	-4.20	105.77	0.00	9.24	54.41	811.56
6.26	4	SLE Q	2	10	276.00	-71903.10	0.04	94.85	0.00	9.24	47.73	712.08
6.50	2	SLE R	3	10	0.00	-72394.60	-34.00	75.43	0.00	9.24	48.18	718.37
6.50	4	SLE Q	3	10	0.00	-63535.30	-38.92	65.69	0.00	9.24	42.36	631.41
6.50	2	SLE R	3	10	0.00	-72394.60	-34.00	75.43	0.00	9.24	48.18	718.37
6.50	4	SLE Q	3	10	0.00	-63535.30	-38.92	65.69	0.00	9.24	42.36	631.41
9.26	2	SLE R	3	10	276.00	-71428.60	25.16	33.83	0.00	9.24	47.02	703.12
9.26	4	SLE Q	3	10	276.00	-62569.30	30.47	32.82	0.00	9.24	41.31	617.22
9.50	2	SLE R	4	10	0.00	-61865.10	-64.37	17.36	0.00	9.24	41.01	612.31
9.50	4	SLE Q	4	10	0.00	-54174.90	-67.93	16.49	0.00	9.24	36.04	537.62
9.50	2	SLE R	4	10	0.00	-61865.10	-64.37	17.36	0.00	9.24	41.01	612.31
9.50	4	SLE Q	4	10	0.00	-54174.90	-67.93	16.49	0.00	9.24	36.04	537.62
12.26	2	SLE R	4	10	276.00	-60899.10	51.24	14.14	0.00	9.24	40.22	601.06
12.26	4	SLE Q	4	10	276.00	-53208.90	56.08	15.56	0.00	9.24	35.29	526.78
12.50	2	SLE R	5	10	0.00	-51320.80	-96.80	4.79	0.00	9.24	34.34	511.63
12.50	4	SLE Q	5	10	0.00	-44800.00	-98.60	6.00	0.00	9.24	30.13	448.40
12.50	2	SLE R	5	10	0.00	-51320.80	-96.80	4.79	0.00	9.24	34.34	511.63
12.50	4	SLE Q	5	10	0.00	-44800.00	-98.60	6.00	0.00	9.24	30.13	448.40
15.26	2	SLE R	5	10	276.00	-50354.80	73.32	42.46	0.00	9.24	33.88	504.00
15.26	4	SLE Q	5	10	276.00	-43834.00	79.10	39.61	0.00	9.24	29.67	440.74
15.50	2	SLE R	6	7	0.00	-40763.50	-136.00	41.85	0.00	9.24	37.16	544.58
15.50	4	SLE Q	6	7	0.00	-35412.80	-127.04	38.07	0.00	9.24	32.45	474.92
15.50	2	SLE R	6	7	0.00	-40763.50	-136.00	41.85	0.00	6.16	38.58	565.77
15.50	4	SLE Q	6	7	0.00	-35412.80	-127.04	38.07	0.00	6.16	33.69	493.34
18.26	2	SLE R	6	7	276.00	-40039.00	124.42	145.99	0.00	6.16	39.24	570.66
18.26	4	SLE Q	6	7	276.00	-34688.30	118.18	126.66	0.00	6.16	34.17	496.25
18.50	2	SLE R	7	7	0.00	-30457.70	-146.40	186.60	0.00	6.16	31.80	455.13
18.50	4	SLE Q	7	7	0.00	-26276.80	-138.66	160.87	0.00	6.16	27.64	394.81
18.50	2	SLE R	7	7	0.00	-30457.70	-146.40	186.60	0.00	6.16	31.80	455.13
18.50	4	SLE Q	7	7	0.00	-26276.80	-138.66	160.87	0.00	6.16	27.64	394.81
21.26	2	SLE R	7	7	276.00	-29733.20	140.95	248.22	0.00	6.16	31.95	454.39
21.26	4	SLE Q	7	7	276.00	-25552.30	133.88	210.28	0.00	6.16	27.63	392.25
21.50	2	SLE R	8	7	0.00	-20148.60	-139.30	372.23	0.00	6.16	25.31	347.82
21.50	4	SLE Q	8	7	0.00	-17136.90	-132.42	315.54	0.00	6.16	21.75	298.12
21.50	2	SLE R	8	7	0.00	-20148.60	-139.30	372.23	0.00	6.16	25.31	347.82
21.50	4	SLE Q	8	7	0.00	-17136.90	-132.42	315.54	0.00	6.16	21.75	298.12
24.26	2	SLE R	8	7	276.00	-19424.10	146.33	189.38	0.00	6.16	22.18	310.68
24.26	4	SLE Q	8	7	276.00	-16412.40	138.19	156.58	0.00	6.16	18.94	264.52
24.50	2	SLE R	9	7	0.00	-9835.80	-58.76	387.56	0.00	6.16	15.14	200.67
24.50	4	SLE Q	9	7	0.00	-7992.74	-64.81	323.83	0.00	6.16	12.72	167.47
24.50	2	SLE R	9	7	0.00	-9835.80	-58.76	387.56	0.00	6.16	15.14	200.67
24.50	4	SLE Q	9	7	0.00	-7992.74	-64.81	323.83	0.00	6.16	12.72	167.47
27.26	2	SLE R	9	7	276.00	-9111.30	77.12	-215.50	0.00	6.16	12.36	167.22
27.26	4	SLE Q	9	7	276.00	-7268.24	82.36	-180.87	0.00	6.16	10.34	138.47

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <cm>	d <sub>y</sub> <cm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRed <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <cm>	d <sub>z</sub> <cm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRed <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	59.37	2.50	12369.40	20367.80	12369.40	0.40	0.45	59.22	2.50	15893.50	20936.50	15893.50	>100	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	59.37	2.50	12369.40	20488.00	12369.40	0.40	0.45	59.22	2.50	15893.50	21060.00	15893.50	>100	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	59.37	2.50	12369.40	20968.90	12369.40	0.40	0.45	59.22	2.50	15893.50	21554.40	15893.50	>100	



Relazione di calcolo

3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	0.38	1.92	7134.68	7134.68	7134.68	0.40	0.30	9.74	2.09	6650.45	6650.45	6650.45	>100
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	0.38	1.94	7188.21	7188.21	7188.21	0.40	0.30	9.74	2.11	6698.72	6698.72	6698.72	>100
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	0.38	1.99	7398.46	7398.46	7398.46	0.40	0.30	9.74	2.16	6888.43	6888.43	6888.43	>100
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	25.42	2.50	9277.05	11075.90	9277.05	0.40	0.30	20.64	2.50	7955.54	10855.00	7955.54	>100
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	25.42	2.50	9277.05	11147.10	9277.05	0.40	0.30	20.64	2.50	7955.54	10924.80	7955.54	>100
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	25.42	2.50	9277.05	11432.10	9277.05	0.40	0.30	20.64	2.50	7955.54	11204.10	7955.54	>100
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	53.13	2.50	9277.05	16155.30	9277.05	0.40	0.30	1.78	2.50	7955.54	15833.20	7955.54	>100
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	53.13	2.50	9277.05	16226.60	9277.05	0.40	0.30	1.78	2.50	7955.54	15903.00	7955.54	>100
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	53.13	2.50	9277.05	16511.60	9277.05	0.40	0.30	1.78	2.50	7955.54	16182.30	7955.54	>100
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	79.17	2.50	9277.05	21241.60	9277.05	0.40	0.30	18.36	2.50	7955.54	20818.00	7955.54	>100
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	79.17	2.50	9277.05	21312.90	9277.05	0.40	0.30	18.36	2.50	7955.54	20887.80	7955.54	>100
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	79.17	2.50	9277.05	21597.90	9277.05	0.40	0.30	18.36	2.50	7955.54	21167.10	7955.54	>100
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	127.05	2.50	6634.02	14138.40	6634.02	0.30	0.30	51.16	2.50	7955.54	14532.70	7955.54	52.216
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	127.05	2.50	6634.02	14189.30	6634.02	0.30	0.30	51.16	2.50	7955.54	14585.00	7955.54	52.216
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	127.05	2.50	6634.02	14393.10	6634.02	0.30	0.30	51.16	2.50	7955.54	14794.50	7955.54	52.216
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	139.22	2.50	6634.02	16455.30	6634.02	0.30	0.30	30.29	2.50	7955.54	16914.20	7955.54	47.650
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	139.22	2.50	6634.02	16455.30	6634.02	0.30	0.30	30.29	2.50	7955.54	16914.20	7955.54	47.650
20.80	21.80	ø6/15	2	21	SLU	0.35	0.25	139.22	2.50	6634.02	16455.30	6634.02	0.30	0.30	30.29	2.50	7955.54	16914.20	7955.54	47.650
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	138.18	2.50	6634.02	16455.30	6634.02	0.30	0.30	90.00	2.50	7955.54	16914.20	7955.54	48.009
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	138.18	2.50	6634.02	16455.30	6634.02	0.30	0.30	90.00	2.50	7955.54	16914.20	7955.54	48.009
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	138.18	2.50	6634.02	16455.30	6634.02	0.30	0.30	90.00	2.50	7955.54	16914.20	7955.54	48.009
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	62.47	2.50	6634.02	14972.10	6634.02	0.30	0.30	298.24	2.50	7955.54	15389.70	7955.54	26.675
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	62.47	2.50	6634.02	14951.70	6634.02	0.30	0.30	298.24	2.50	7955.54	15368.70	7955.54	26.675
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	62.47	2.50	6634.02	14870.20	6634.02	0.30	0.30	298.24	2.50	7955.54	15284.90	7955.54	26.675

Pilastrata n. 49

Nodi: 149 349 549 749 949 1149 1349 1549 1749 1949

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1R	40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R	40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-132316.00	429.43	2646.32	-47.78	-2646.32	-333837.00	13239.50	-13198.00	303.75	2.03	2.523
0.00	1(e)	SLU	1	1	0.00	-132316.00	429.43	2646.32	-47.78	-2646.32	-333837.00	13239.50	-13198.00	303.75	2.03	2.523
3.26	1(e)	SLU	1	1	326.00	-130197.00	211.69	2603.94	19.61	2603.94	-333837.00	13231.40	13186.30	56.25	2.08	2.564
3.50	1(e)	SLU	2	10	0.00	-116576.00	188.08	2331.53	-118.00	-2331.53	-246925.00	8175.83	-8247.67	322.03	1.44	2.118
3.50	1(e)	SLU	2	10	0.00	-116576.00	188.08	2331.53	-118.00	-2331.53	-235893.00	7598.60	-7724.73	319.22	1.35	2.023
6.26	1(e)	SLU	2	10	276.00	-115321.00	70.47	2306.41	92.53	2306.41	-235893.00	7628.28	7749.10	40.78	1.38	2.046
6.50	1(e)	SLU	3	10	0.00	-101751.00	63.33	2035.02	-86.30	-2035.02	-235893.00	7845.20	-7937.49	319.22	1.68	2.318
6.50	1(e)	SLU	3	10	0.00	-101751.00	63.33	2035.02	-86.30	-2035.02	-235893.00	7845.20	-7937.49	319.22	1.68	2.318
9.26	1(e)	SLU	3	10	276.00	-100495.00	25.40	2009.90	72.05	2009.90	-235893.00	7860.24	7949.74	40.78	1.71	2.347
9.50	1(e)	SLU	4	10	0.00	-86917.50	15.57	1738.35	-127.98	-1738.35	-235893.00	7856.78	-7883.30	319.22	2.06	2.714
9.50	1(e)	SLU	4	10	0.00	-86917.50	15.57	1738.35	-127.98	-1738.35	-235893.00	7856.78	-7883.30	319.22	2.06	2.714
12.26	1(e)	SLU	4	10	276.00	-85661.70	9.63	1713.23	98.53	1713.23	-235893.00	7849.05	7868.58	40.78	2.10	2.754
12.50	1(e)	SLU	5	10	0.00	-72080.20	2.45	1441.60	-146.49	-1441.60	-235893.00	7722.93	-7663.69	319.22	2.51	3.273
12.50	1(e)	SLU	5	10	0.00	-72080.20	2.45	1441.60	-146.49	-1441.60	-235893.00	7722.93	-7663.69	319.22	2.51	3.273
15.26	1(e)	SLU	5	10	276.00	-70824.40	44.22	1416.49	107.90	1416.49	-235893.00	7705.84	7638.71	40.78	2.55	3.331
15.50	1(e)	SLU	6	7	0.00	-57240.30	47.00	1144.80	-192.85	-1144.80	-185194.00	5408.78	-5245.16	303.75	2.28	3.235
15.50	1(e)	SLU	6	7	0.00	-57240.30	47.00	1144.80	-192.85	-1144.80	-174161.00	4922.00	-4969.74	306.56	2.23	3.043
18.26	1(e)	SLU	6	7	276.00	-56298.40	138.49	1125.97	168.94	1125.97	-174161.00	4910.82	4952.70	53.44	2.27	3.094
18.50	1(e)	SLU	7	7	0.00	-42736.90	157.03	854.74	-193.45	-854.74	-174161.00	4690.03	-4610.52	306.56	2.96	4.075
18.50	1(e)	SLU	7	7	0.00	-42736.90	157.03	854.74	-193.45	-854.74	-174161.00	4690.03	-4610.52	306.56	2.96	4.075
21.26	1(e)	SLU	7	7	276.00	-41795.10	246.13	835.90	180.88	835.90	-174161.00	4670.41	4582.24	53.44	3.01	4.167
21.50	1(e)	SLU	8	7	0.00	-28230.10	261.90	564.60	-184.64	-564.60	-174161.00	4149.77	-4223.87	305.16	3.94	6.169
21.50	1(e)	SLU	8	7	0.00	-28230.10	261.90	564.60	-184.64	-564.60	-174161.00	4149.77	-4223.87	305.16	3.94	6.169
24.26	1(e)	SLU	8	7	276.00	-27288.20	204.10	545.76	191.58	545.76	-174161.00	4119.08	4187.57	54.84	4.02	6.382
24.50	1(e)	SLU	9	7	0.00	-13730.40	162.32	274.61	-75.09	-274.61	-174161.00	3586.98	-3606.54	303.75	5.40	12.684
24.50	1(e)	SLU	9	7	0.00	-13730.40	162.32	274.61	-75.09	-274.61	-174161.00	3586.98	-3606.54	303.75	5.40	12.684
27.26	1(e)	SLU	9	7	276.00	-12788.60	32.41	255.77	109.18	255.77	-174161.00	3575.38	3528.91	56.25	5.54	13.618

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez .	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cm>	AfC <cm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
0.00	2	SLE R	1	1	0.00	-93265.00	-34.10	321.21	0.00	12.31	44.61	663.70
0.00	4	SLE Q	1	1	0.00	-81994.50	-30.49	288.66	0.00	12.31	39.26	583.94
0.00	2	SLE R	1	1	0.00	-93265.00	-34.10	321.21	0.00	12.31	44.61	663.70
0.00	4	SLE Q	1	1	0.00	-81994.50	-30.49	288.66	0.00	12.31	39.26	583.94
3.26	2	SLE R	1	1	326.00	-91635.00	15.24	160.62	0.00	12.31	42.89	640.69
3.26	4	SLE Q	1	1	326.00	-80364.50	16.02	140.96	0.00	12.31	37.63	562.10
3.50	2	SLE R	2	10	0.00	-82113.00	-87.56	143.18	0.00	12.31	54.12	803.13
3.50	4	SLE Q	2	10	0.00	-72021.10	-83.32	125.51	0.00	12.31	47.53	705.11
3.50	2	SLE R	2	10	0.00	-82113.00	-87.56	143.18	0.00	9.24	55.72	826.95
3.50	4	SLE Q	2	10	0.00	-72021.10	-83.32	125.51	0.00	9.24	48.93	726.03
6.26	2	SLE R	2	10	276.00	-81147.00	68.64	56.24	0.00	9.24	53.99	805.30
6.26	4	SLE Q	2	10	276.00	-71055.10	64.85	51.30	0.00	9.24	47.35	705.91
6.50	2	SLE R	3	10	0.00	-71663.30	-65.47	50.61	0.00	9.24	47.74	711.83
6.50	4	SLE Q	3	10	0.00	-62748.50	-67.54	45.71	0.00	9.24	41.91	624.57
6.50	2	SLE R	3	10	0.00	-71663.30	-65.47	50.61	0.00	9.24	47.74	711.83
6.50	4	SLE Q	3	10	0.00	-62748.50	-67.54	45.71	0.00	9.24	41.91	624.57
9.26	2	SLE R	3	10	276.00	-70697.30	55.07	22.18	0.00	9.24	46.71	697.95
9.26	4	SLE Q	3	10	276.00	-61782.50	56.93	21.95	0.00	9.24	40.93	611.21



Relazione di calcolo

9.50	2	SLE R	4	10	0.00	-61207.50	-95.32	14.68	0.00	9.24	40.85	609.01
9.50	4	SLE Q	4	10	0.00	-53470.30	-94.70	14.83	0.00	9.24	35.82	533.52
9.50	2	SLE R	4	10	0.00	-61207.50	-95.32	14.68	0.00	9.24	40.85	609.01
9.50	4	SLE Q	4	10	0.00	-53470.30	-94.70	14.83	0.00	9.24	35.82	533.52
12.26	2	SLE R	4	10	276.00	-60241.50	74.09	10.06	0.00	9.24	39.97	596.70
12.26	4	SLE Q	4	10	276.00	-52504.30	75.25	11.42	0.00	9.24	34.97	521.55
12.50	2	SLE R	5	10	0.00	-50748.40	-109.39	4.59	0.00	9.24	34.08	507.42
12.50	4	SLE Q	5	10	0.00	-44189.20	-108.71	6.29	0.00	9.24	29.83	443.60
12.50	2	SLE R	5	10	0.00	-50748.40	-109.39	4.59	0.00	9.24	34.08	507.42
12.50	4	SLE Q	5	10	0.00	-44189.20	-108.71	6.29	0.00	9.24	29.83	443.60
15.26	2	SLE R	5	10	276.00	-49782.40	81.88	35.04	0.00	9.24	33.51	498.50
15.26	4	SLE Q	5	10	276.00	-43223.20	85.31	32.33	0.00	9.24	29.25	434.62
15.50	2	SLE R	6	7	0.00	-40287.50	-140.97	36.83	0.00	9.24	36.77	538.70
15.50	4	SLE Q	6	7	0.00	-34906.80	-130.20	33.27	0.00	9.24	32.02	468.37
15.50	2	SLE R	6	7	0.00	-40287.50	-140.97	36.83	0.00	6.16	38.18	559.60
15.50	4	SLE Q	6	7	0.00	-34906.80	-130.20	33.27	0.00	6.16	33.23	486.49
18.26	2	SLE R	6	7	276.00	-39563.00	123.99	103.77	0.00	6.16	38.21	557.67
18.26	4	SLE Q	6	7	276.00	-34182.30	116.06	89.85	0.00	6.16	33.17	483.43
18.50	2	SLE R	7	7	0.00	-30086.20	-142.58	117.05	0.00	6.16	30.42	438.60
18.50	4	SLE Q	7	7	0.00	-25883.80	-133.27	100.17	0.00	6.16	26.34	379.12
18.50	2	SLE R	7	7	0.00	-30086.20	-142.58	117.05	0.00	6.16	30.42	438.60
18.50	4	SLE Q	7	7	0.00	-25883.80	-133.27	100.17	0.00	6.16	26.34	379.12
21.26	2	SLE R	7	7	276.00	-29361.70	133.32	182.27	0.00	6.16	30.56	437.75
21.26	4	SLE Q	7	7	276.00	-25159.30	124.95	155.05	0.00	6.16	26.35	376.81
21.50	2	SLE R	8	7	0.00	-19882.10	-136.27	193.49	0.00	6.16	22.47	315.57
21.50	4	SLE Q	8	7	0.00	-16858.80	-127.64	163.36	0.00	6.16	19.25	269.60
21.50	2	SLE R	8	7	0.00	-19882.10	-136.27	193.49	0.00	6.16	22.47	315.57
21.50	4	SLE Q	8	7	0.00	-16858.80	-127.64	163.36	0.00	6.16	19.25	269.60
24.26	2	SLE R	8	7	276.00	-19157.60	141.19	151.40	0.00	6.16	21.32	300.28
24.26	4	SLE Q	8	7	276.00	-16134.30	131.73	129.49	0.00	6.16	18.20	255.46
24.50	2	SLE R	9	7	0.00	-9683.17	-57.20	120.79	0.00	6.16	11.17	156.27
24.50	4	SLE Q	9	7	0.00	-7839.58	-60.73	104.28	0.00	6.16	9.38	130.08
24.50	2	SLE R	9	7	0.00	-9683.17	-57.20	120.79	0.00	6.16	11.17	156.27
24.50	4	SLE Q	9	7	0.00	-7839.58	-60.73	104.28	0.00	6.16	9.38	130.08
27.26	2	SLE R	9	7	276.00	-8958.67	82.12	24.14	0.00	6.16	9.58	135.88
27.26	4	SLE Q	9	7	276.00	-7115.08	81.76	20.30	0.00	6.16	7.90	111.00

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <cm>	d <sub>y</sub> <mm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <mm>	d <sub>z</sub> <mm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	20.67	2.50	12369.40	20704.70	12369.40	0.40	0.45	66.79	2.50	15893.50	21282.80	15893.50	>100	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	20.67	2.50	12369.40	20825.00	12369.40	0.40	0.45	66.79	2.50	15893.50	21406.40	15893.50	>100	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	20.67	2.50	12369.40	21305.80	12369.40	0.40	0.45	66.79	2.50	15893.50	21900.70	15893.50	>100	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	76.28	1.99	7378.58	7378.58	7378.58	0.40	0.30	42.61	2.16	6870.48	6870.48	6870.48	96.728	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	76.28	2.00	7430.35	7430.35	7430.35	0.40	0.30	42.61	2.17	6917.21	6917.21	6917.21	97.406	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	76.28	2.06	7633.94	7633.94	7633.94	0.40	0.30	42.61	2.23	7101.09	7101.09	7101.09	>100	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	57.37	2.50	9277.05	11385.40	9277.05	0.40	0.30	13.74	2.50	7955.54	11158.40	7955.54	>100	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	57.37	2.50	9277.05	11456.70	9277.05	0.40	0.30	13.74	2.50	7955.54	11228.20	7955.54	>100	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	57.37	2.50	9277.05	11741.70	9277.05	0.40	0.30	13.74	2.50	7955.54	11507.50	7955.54	>100	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	82.07	2.50	9277.05	16434.90	9277.05	0.40	0.30	2.15	2.50	7955.54	16107.10	7955.54	>100	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	82.07	2.50	9277.05	16506.10	9277.05	0.40	0.30	2.15	2.50	7955.54	16176.90	7955.54	>100	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	82.07	2.50	9277.05	16791.10	9277.05	0.40	0.30	2.15	2.50	7955.54	16456.20	7955.54	>100	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	92.17	2.50	9277.05	21485.60	9277.05	0.40	0.30	15.13	2.50	7955.54	21057.20	7955.54	>100	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	92.17	2.50	9277.05	21556.90	9277.05	0.40	0.30	15.13	2.50	7955.54	21127.00	7955.54	>100	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	92.17	2.50	9277.05	21841.90	9277.05	0.40	0.30	15.13	2.50	7955.54	21406.30	7955.54	>100	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	131.08	2.50	6634.02	14332.20	6634.02	0.30	0.30	33.15	2.50	7955.54	14731.90	7955.54	50.609	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	131.08	2.50	6634.02	14383.20	6634.02	0.30	0.30	33.15	2.50	7955.54	14784.30	7955.54	50.609	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	131.08	2.50	6634.02	14587.00	6634.02	0.30	0.30	33.15	2.50	7955.54	14993.80	7955.54	50.609	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	135.62	2.50	6634.02	16455.30	6634.02	0.30	0.30	32.28	2.50	7955.54	16914.20	7955.54	48.914	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	135.62	2.50	6634.02	16455.30	6634.02	0.30	0.30	32.28	2.50	7955.54	16914.20	7955.54	48.914	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	135.62	2.50	6634.02	16455.30	6634.02	0.30	0.30	32.28	2.50	7955.54	16914.20	7955.54	48.914	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	136.31	2.50	6634.02	16455.30	6634.02	0.30	0.30	20.94	2.50	7955.54	16914.20	7955.54	48.667	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	136.31	2.50	6634.02	16455.30	6634.02	0.30	0.30	20.94	2.50	7955.54	16914.20	7955.54	48.667	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	136.31	2.50	6634.02	16455.30	6634.02	0.30	0.30	20.94	2.50	7955.54	16914.20	7955.54	48.667	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	66.77	2.50	6634.02	14946.80	6634.02	0.30	0.30	47.07	2.50	7955.54	15363.70	7955.54	99.364	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	66.77	2.50	6634.02	14926.50	6634.02	0.30	0.30	47.07	2.50	7955.54	15342.70	7955.54	99.364	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	66.77	2.50	6634.02	14844.90	6634.02	0.30	0.30	47.07	2.50	7955.54	15258.90	7955.54	99.364	

Pilastrata n. 50

Nodi: 150 350 550 750 950 1150 1350 1550 1750 1950

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>y</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-131163.00	629.71	2623.26	46.10	2623.26	-333837.00	13235.40	13192.20	56.25	2.06	2.545
0.00	1(e)	SLU	1	1	0.00	-131163.00	629.71	2623.26	46.10	2623.26	-333837.00	13235.40	13192.20	56.25	2.06	2.545
3.26	1(e)	SLU	1	1	326.00	-129044.00	185.40	2580.89	-27.24	-2580.89	-333837.00	13226.60	-13179.20	303.75	2.10	2.587
3.50	1(e)	SLU	2	10	0.00	-115540.00	144.70	2310.80	-233.74	-2310.80	-246925.00	8197.48	-8264.77	322.03	1.46	2.137



Relazione di calcolo

3.50	1(e)	SLU	2	10	0.00	-115540.00	144.70	2310.80	-233.74	-2310.80	-235893.00	7623.27	-7745.07	319.22	1.37	2.042
6.26	1(e)	SLU	2	10	276.00	-114284.00	-2.89	-2285.69	186.33	2285.69	-235893.00	-7650.51	7766.18	139.22	1.40	2.064
6.50	1(e)	SLU	3	10	0.00	-100878.00	52.65	2017.57	-128.02	-2017.57	-235893.00	7855.89	-7946.29	319.22	1.70	2.338
6.50	1(e)	SLU	3	10	0.00	-100878.00	52.65	2017.57	-128.02	-2017.57	-235893.00	7855.89	-7946.29	319.22	1.70	2.338
9.26	1(e)	SLU	3	10	276.00	-99622.60	-0.69	-1992.45	144.30	1992.45	-235893.00	-7869.90	7957.33	139.22	1.73	2.368
9.50	1(e)	SLU	4	10	0.00	-86271.80	20.12	1725.44	-253.17	-1725.44	-235893.00	7852.80	-7875.72	319.22	2.08	2.734
9.50	1(e)	SLU	4	10	0.00	-86271.80	20.12	1725.44	-253.17	-1725.44	-235893.00	7852.80	-7875.72	319.22	2.08	2.734
12.26	1(e)	SLU	4	10	276.00	-85016.00	-8.44	-1700.32	225.26	1700.32	-235893.00	-7844.92	7860.87	139.22	2.12	2.775
12.50	1(e)	SLU	5	10	0.00	-71707.00	3.29	1434.14	-263.59	-1434.14	-235893.00	7717.87	-7656.27	319.22	2.52	3.290
12.50	1(e)	SLU	5	10	0.00	-71707.00	3.29	1434.14	-263.59	-1434.14	-235893.00	7717.87	-7656.27	319.22	2.52	3.290
15.26	1(e)	SLU	5	10	276.00	-70451.20	3.30	1409.02	205.89	1409.02	-235893.00	7700.70	7631.23	40.78	2.57	3.348
15.50	1(e)	SLU	6	7	0.00	-57036.40	14.23	1140.73	-238.70	-1140.73	-185194.00	5408.33	-5241.85	303.75	2.28	3.247
15.50	1(e)	SLU	6	7	0.00	-57036.40	14.23	1140.73	-238.70	-1140.73	-185194.00	5408.33	-5241.85	303.75	2.28	3.247
18.26	1(e)	SLU	6	7	276.00	-56094.50	33.25	1121.89	208.38	1121.89	-174161.00	4908.16	4948.43	53.44	2.28	3.105
18.50	1(e)	SLU	7	7	0.00	-42622.50	68.65	852.45	-233.41	-852.45	-174161.00	4687.65	-4607.08	306.56	2.96	4.086
18.50	1(e)	SLU	7	7	0.00	-42622.50	68.65	852.45	-233.41	-852.45	-174161.00	4687.65	-4607.08	306.56	2.96	4.086
21.26	1(e)	SLU	7	7	276.00	-41680.60	54.63	833.61	224.87	833.61	-174161.00	4668.03	4578.81	53.44	3.02	4.178
21.50	1(e)	SLU	8	7	0.00	-28233.00	109.12	564.66	-251.82	-564.66	-174161.00	4149.87	-4223.99	305.16	3.94	6.169
21.50	1(e)	SLU	8	7	0.00	-28233.00	109.12	564.66	-251.82	-564.66	-174161.00	4149.87	-4223.99	305.16	3.94	6.169
24.26	1(e)	SLU	8	7	276.00	-27291.10	39.31	545.82	265.08	545.82	-174161.00	4119.18	4187.69	54.84	4.02	6.382
24.50	1(e)	SLU	9	7	0.00	-13840.10	151.96	276.80	-111.14	-276.80	-174161.00	3588.80	-3615.18	303.75	5.38	12.584
24.50	1(e)	SLU	9	7	0.00	-13840.10	151.96	276.80	-111.14	-276.80	-174161.00	3588.80	-3615.18	303.75	5.38	12.584
27.26	1(e)	SLU	9	7	276.00	-12898.20	-50.23	-257.96	116.77	257.96	-174161.00	-3576.57	3538.13	123.75	5.52	13.503

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cm²>	σ <sub>t</sub> <daN/cm²>
0.00	2	SLE R	1	1	0.00	-92427.20	35.21	470.18	0.00	12.31	45.02	667.64
0.00	4	SLE Q	1	1	0.00	-80906.20	29.06	402.33	0.00	12.31	39.35	583.69
0.00	2	SLE R	1	1	0.00	-92427.20	35.21	470.18	0.00	12.31	45.02	667.64
0.00	4	SLE Q	1	1	0.00	-80906.20	29.06	402.33	0.00	12.31	39.35	583.69
3.26	2	SLE R	1	1	326.00	-90797.20	-22.71	138.33	0.00	12.31	42.44	634.08
3.26	4	SLE Q	1	1	326.00	-79276.20	-18.44	117.26	0.00	12.31	37.03	553.28
3.50	2	SLE R	2	10	0.00	-81357.70	-163.62	108.14	0.00	12.31	53.97	799.90
3.50	4	SLE Q	2	10	0.00	-71014.30	-149.65	89.41	0.00	12.31	47.12	698.35
3.50	2	SLE R	2	10	0.00	-81357.70	-163.62	108.14	0.00	9.24	55.59	823.92
3.50	4	SLE Q	2	10	0.00	-71014.30	-149.65	89.41	0.00	9.24	48.53	719.35
6.26	2	SLE R	2	10	276.00	-80391.70	129.68	4.50	0.00	9.24	53.54	798.66
6.26	4	SLE Q	2	10	276.00	-70048.30	122.49	14.13	0.00	9.24	46.85	698.15
6.50	2	SLE R	3	10	0.00	-71025.00	-89.58	41.13	0.00	9.24	47.46	707.17
6.50	4	SLE Q	3	10	0.00	-61868.40	-100.38	33.17	0.00	9.24	41.52	618.17
6.50	2	SLE R	3	10	0.00	-71025.00	-89.58	41.13	0.00	9.24	47.46	707.17
6.50	4	SLE Q	3	10	0.00	-61868.40	-100.38	33.17	0.00	9.24	41.52	618.17
9.26	2	SLE R	3	10	276.00	-70059.00	100.80	4.38	0.00	9.24	46.55	694.71
9.26	4	SLE Q	3	10	276.00	-60902.40	109.48	11.38	0.00	9.24	40.75	607.22
9.50	2	SLE R	4	10	0.00	-60731.50	-177.87	16.24	0.00	9.24	41.35	613.69
9.50	4	SLE Q	4	10	0.00	-52766.10	-183.22	9.74	0.00	9.24	36.16	535.87
9.50	2	SLE R	4	10	0.00	-60731.50	-177.87	16.24	0.00	9.24	41.35	613.69
9.50	4	SLE Q	4	10	0.00	-52766.10	-183.22	9.74	0.00	9.24	36.16	535.87
12.26	2	SLE R	4	10	276.00	-59765.50	158.06	-1.66	0.00	9.24	40.38	600.38
12.26	4	SLE Q	4	10	276.00	-51800.10	165.66	6.35	0.00	9.24	35.32	524.11
12.50	2	SLE R	5	10	0.00	-50467.40	-185.71	3.73	0.00	9.24	34.62	513.03
12.50	4	SLE Q	5	10	0.00	-43697.00	-197.96	-0.70	0.00	9.24	30.31	448.03
12.50	2	SLE R	5	10	0.00	-50467.40	-185.71	3.73	0.00	9.24	34.62	513.03
12.50	4	SLE Q	5	10	0.00	-43697.00	-197.96	-0.70	0.00	9.24	30.31	448.03
15.26	2	SLE R	5	10	276.00	-49501.40	144.51	6.77	0.00	9.24	33.63	499.41
15.26	4	SLE Q	5	10	276.00	-42731.00	163.80	13.88	0.00	9.24	29.49	436.37
15.50	2	SLE R	6	7	0.00	-40129.40	-169.49	11.26	0.00	9.24	36.78	537.92
15.50	4	SLE Q	6	7	0.00	-34563.50	-170.43	4.97	0.00	9.24	32.03	466.91
15.50	2	SLE R	6	7	0.00	-40129.40	-169.49	11.26	0.00	6.16	38.15	558.50
15.50	4	SLE Q	6	7	0.00	-34563.50	-170.43	4.97	0.00	6.16	33.21	484.59
18.26	2	SLE R	6	7	276.00	-39404.90	147.71	27.99	0.00	6.16	37.39	547.80
18.26	4	SLE Q	6	7	276.00	-33839.00	154.54	30.50	0.00	6.16	32.67	476.31
18.50	2	SLE R	7	7	0.00	-29995.10	-165.89	50.28	0.00	6.16	29.78	430.96
18.50	4	SLE Q	7	7	0.00	-25644.00	-176.08	36.21	0.00	6.16	25.94	373.39
18.50	2	SLE R	7	7	0.00	-29995.10	-165.89	50.28	0.00	6.16	29.78	430.96
18.50	4	SLE Q	7	7	0.00	-25644.00	-176.08	36.21	0.00	6.16	25.94	373.39
21.26	2	SLE R	7	7	276.00	-29270.60	159.67	43.32	0.00	6.16	28.94	419.25
21.26	4	SLE Q	7	7	276.00	-24919.50	169.43	43.38	0.00	6.16	25.30	363.84
21.50	2	SLE R	8	7	0.00	-19877.80	-178.65	79.55	0.00	6.16	21.56	304.98
21.50	4	SLE Q	8	7	0.00	-16740.60	-185.07	60.76	0.00	6.16	18.65	261.94
21.50	2	SLE R	8	7	0.00	-19877.80	-178.65	79.55	0.00	6.16	21.56	304.98
21.50	4	SLE Q	8	7	0.00	-16740.60	-185.07	60.76	0.00	6.16	18.65	261.94
24.26	2	SLE R	8	7	276.00	-19153.30	188.32	32.38	0.00	6.16	20.41	289.71
24.26	4	SLE Q	8	7	276.00	-16016.10	190.20	35.72	0.00	6.16	17.75	249.38
24.50	2	SLE R	9	7	0.00	-9757.64	-76.80	111.38	0.00	6.16	11.43	159.21
24.50	4	SLE Q	9	7	0.00	-7836.20	-109.21	90.63	0.00	6.16	10.00	136.40
24.50	2	SLE R	9	7	0.00	-9757.64	-76.80	111.38	0.00	6.16	11.43	159.21
24.50	4	SLE Q	9	7	0.00	-7836.20	-109.21	90.63	0.00	6.16	10.00	136.40
27.26	2	SLE R	9	7	276.00	-9033.14	81.13	-32.59	0.00	6.16	9.74	138.02
27.26	4	SLE Q	9	7	276.00	-7111.70	121.89	-14.56	0.00	6.16	8.49	117.11



Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub>	d <sub>y</sub>	Vsdu <sub>y</sub>	ctgθ <sub>y</sub>	VRsd <sub>y</sub>	VRcd <sub>y</sub>	Vrd <sub>y</sub>	bw <sub>z</sub>	d <sub>z</sub>	Vsdu <sub>z</sub>	ctgθ <sub>z</sub>	VRsd <sub>z</sub>	VRcd <sub>z</sub>	Vrd <sub>z</sub>	Sic.
<cm>	<cm>						<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	22.50	2.50	12369.40	21097.10	12369.40	0.40	0.45	136.29	2.50	15893.50	21686.10	15893.50	>100	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	22.50	2.50	12369.40	21217.30	12369.40	0.40	0.45	136.29	2.50	15893.50	21809.70	15893.50	>100	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	22.50	2.50	12369.40	21698.20	12369.40	0.40	0.45	136.29	2.50	15893.50	22304.00	15893.50	>100	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	152.20	2.06	7631.43	7631.43	7631.43	0.40	0.30	53.47	2.23	7098.82	7098.82	7098.82	50.14	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	152.20	2.07	7681.50	7681.50	7681.50	0.40	0.30	53.47	2.25	7144.07	7144.06	7144.06	50.470	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	152.20	2.12	7878.60	7878.60	7878.60	0.40	0.30	53.47	2.30	7322.24	7322.24	7322.24	51.765	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	98.67	2.50	9277.05	11682.50	9277.05	0.40	0.30	19.33	2.50	7955.54	11449.50	7955.54	94.025	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	98.67	2.50	9277.05	11753.70	9277.05	0.40	0.30	19.33	2.50	7955.54	11519.30	7955.54	94.024	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	98.67	2.50	9277.05	12038.70	9277.05	0.40	0.30	19.33	2.50	7955.54	11798.60	7955.54	94.024	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	173.34	2.50	9277.05	16654.70	9277.05	0.40	0.30	10.35	2.50	7955.54	16322.50	7955.54	53.519	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	173.34	2.50	9277.05	16725.90	9277.05	0.40	0.30	10.35	2.50	7955.54	16392.30	7955.54	53.519	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	173.34	2.50	9277.05	17010.90	9277.05	0.40	0.30	10.35	2.50	7955.54	16671.70	7955.54	53.519	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	170.10	2.50	9277.05	21612.70	9277.05	0.40	0.30	0.00	2.50	7955.54	21181.60	7955.54	54.539	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	170.10	2.50	9277.05	21683.90	9277.05	0.40	0.30	0.00	2.50	7955.54	21251.50	7955.54	54.539	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	170.10	2.50	9277.05	21968.90	9277.05	0.40	0.30	0.00	2.50	7955.54	21530.80	7955.54	54.539	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	161.99	2.50	6634.02	14398.40	6634.02	0.30	0.30	6.89	2.50	7955.54	14799.90	7955.54	40.953	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	161.99	2.50	6634.02	14449.30	6634.02	0.30	0.30	6.89	2.50	7955.54	14852.30	7955.54	40.953	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	161.99	2.50	6634.02	14653.10	6634.02	0.30	0.30	6.89	2.50	7955.54	15061.80	7955.54	40.953	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	166.04	2.50	6634.02	16455.30	6634.02	0.30	0.30	5.08	2.50	7955.54	16914.20	7955.54	39.953	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	166.04	2.50	6634.02	16455.30	6634.02	0.30	0.30	5.08	2.50	7955.54	16914.20	7955.54	39.953	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	166.04	2.50	6634.02	16455.30	6634.02	0.30	0.30	5.08	2.50	7955.54	16914.20	7955.54	39.953	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	187.28	2.50	6634.02	16455.30	6634.02	0.30	0.30	25.29	2.50	7955.54	16914.20	7955.54	35.422	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	187.28	2.50	6634.02	16455.30	6634.02	0.30	0.30	25.29	2.50	7955.54	16914.20	7955.54	35.422	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	187.28	2.50	6634.02	16455.30	6634.02	0.30	0.30	25.29	2.50	7955.54	16914.20	7955.54	35.422	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	82.57	2.50	6634.02	14961.10	6634.02	0.30	0.30	73.26	2.50	7955.54	15378.30	7955.54	80.340	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	82.57	2.50	6634.02	14940.70	6634.02	0.30	0.30	73.26	2.50	7955.54	15357.40	7955.54	80.340	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	82.57	2.50	6634.02	14859.20	6634.02	0.30	0.30	73.26	2.50	7955.54	15273.60	7955.54	80.340	

Pilastrata n. 51

Nodi: 151 -7152 251 -7147 351 451 551 651 751 851 951 1051 1151 1251 1351 1451 1551 1651 1751 1851 1951

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
1R		40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
1R		40.00	50.00	3.00	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-59669.50	1145.95	1193.39	-27.43	-1193.39	-333837.00	11521.80	-11309.10	302.34	4.00	5.595
0.00	1(e)	SLU	1	1	0.00	-59669.50	1145.95	1193.39	-27.43	-1193.39	-333837.00	11521.80	-11309.10	302.34	4.00	5.595
1.00	1(e)	SLU	1	1	100.00	-59019.50	1468.56	1468.56	-108.58	-1180.39	-333837.00	12609.40	-10471.60	306.56	4.01	5.656
1.00	1(e)	SLU	2	1	0.00	-66842.80	1420.12	1420.12	-242.01	-1336.86	-333837.00	12274.00	-11452.00	303.75	3.70	4.994
1.35	1(e)	SLU	2	1	35.00	-66615.30	1574.58	1574.58	-80.29	-1332.31	-333837.00	13037.10	-10872.50	306.56	3.70	5.011
2.00	1(e)	SLU	3	1	0.00	-76425.30	-678.41	-1528.51	-118.78	-1528.51	-333837.00	-12210.10	-12259.30	237.66	3.38	4.368
2.00	1(e)	SLU	3	1	0.00	-76425.30	-678.41	-1528.51	-118.78	-1528.51	-333837.00	-12210.10	-12259.30	237.66	3.38	4.368
2.75	1(e)	SLU	3	1	75.00	-75937.80	-654.80	-1518.76	1190.98	1518.76	-333837.00	-12201.70	12235.30	122.34	3.39	4.396
2.75	1(e)	SLU	4	1	0.00	-98465.80	-626.00	-1969.31	822.78	1969.31	-333837.00	-13010.50	12712.10	123.75	2.76	3.390
3.26	1(e)	SLU	4	1	51.00	-98134.30	-580.26	-1962.68	2443.64	2443.64	-333837.00	-11411.70	13786.10	119.53	2.80	3.402
3.50	1(e)	SLU	5	10	0.00	-121172.00	-1083.32	-2423.45	-2034.65	-2423.45	-246925.00	-8071.51	-8164.90	217.97	1.35	2.038
3.50	1(e)	SLU	5	10	0.00	-121172.00	-1083.32	-2423.45	-2034.65	-2423.45	-235893.00	-7486.88	-7632.73	220.78	1.25	1.947
4.35	1(e)	SLU	5	10	85.00	-120786.00	1103.54	2415.71	-1030.30	-2415.71	-235893.00	7496.42	-7640.55	319.22	1.26	1.953
5.00	1(e)	SLU	6	10	0.00	-114289.00	-1159.49	-2285.78	748.83	2285.78	-235893.00	-7650.41	7766.10	139.22	1.40	2.064
5.00	1(e)	SLU	6	10	0.00	-114289.00	-1159.49	-2285.78	748.83	2285.78	-235893.00	-7650.41	7766.10	139.22	1.40	2.064
6.26	1(e)	SLU	6	10	126.00	-113716.00	-480.77	-2274.32	1701.06	2274.32	-235893.00	-7661.90	7775.42	139.22	1.41	2.074
6.50	1(e)	SLU	7	10	0.00	-104776.00	-1079.75	-2095.53	-1471.45	-2095.53	-235893.00	-7803.93	-7902.12	220.78	1.61	2.251
6.50	1(e)	SLU	7	10	0.00	-104776.00	-1079.75	-2095.53	-1471.45	-2095.53	-235893.00	-7803.93	-7902.12	220.78	1.61	2.251
7.35	1(e)	SLU	7	10	85.00	-104390.00	1161.13	2087.79	-1013.19	-2087.79	-235893.00	7809.24	-7906.66	319.22	1.62	2.260
8.00	1(e)	SLU	8	10	0.00	-98531.20	-256.84	-1970.62	358.83	1970.62	-235893.00	-7875.28	7958.63	139.22	1.76	2.394
8.00	1(e)	SLU	8	10	0.00	-98531.20	-256.84	-1970.62	358.83	1970.62	-235893.00	-7875.28	7958.63	139.22	1.76	2.394
9.26	1(e)	SLU	8	10	126.00	-97957.90	-817.20	-1959.16	1756.20	1959.16	-235893.00	-7875.97	7956.70	139.22	1.77	2.408
9.50	1(e)	SLU	9	10	0.00	-89015.10	-1515.88	-1780.30	-1466.75	-1780.30	-235893.00	-7865.26	-7902.64	220.78	2.01	2.650
9.50	1(e)	SLU	9	10	0.00	-89015.10	-1515.88	-1780.30	-1466.75	-1780.30	-235893.00	-7865.26	-7902.64	220.78	2.01	2.650
10.35	1(e)	SLU	9	10	85.00	-88628.30	967.56	1772.57	-994.49	-1772.57	-235893.00	7864.07	-7899.52	319.22	2.02	2.662
11.00	1(e)	SLU	10	10	0.00	-83171.90	187.21	1663.44	344.55	1663.44	-235893.00	7833.02	7838.86	40.78	2.17	2.836
11.00	1(e)	SLU	10	10	0.00	-83171.90	187.21	1663.44	344.55	1663.44	-235893.00	7833.02	7838.86	40.78	2.17	2.836
12.26	1(e)	SLU	10	10	126.00	-82598.60	-977.17	-1651.97	1817.90	1817.90	-235893.00	-7562.93	8115.90	137.81	2.19	2.856
12.50	1	SLU	11	10	0.00	-73632.50	-1723.72	-1723.72	-1492.44	-1492.44	-235893.00	-8252.86	-7148.64	217.97	2.46	3.204
12.50	1	SLU	11	10	0.00	-73632.50	-1723.72	-1723.72	-1492.44	-1492.44	-235893.00	-8252.86	-7148.64	217.97	2.46	3.204
13.35	1(e)	SLU	11	10	85.00	-73245.70	875.04	1464.91	-1039.98	-1464.91	-235893.00	7738.61	-7686.75	319.22	2.47	3.221
14.00	1(e)	SLU	12	10	0.00	-67943.40	354.09	1358.87	243.22	1358.87	-235893.00	7665.56	7580.53	40.78	2.65	3.472
14.00	1(e)	SLU	12	10	0.00	-67943.40	354.09	1358.87	243.22	1358.87	-235893.00	7665.56	7580.53	40.78	2.65	3.472
15.26	1(e)	SLU	12	10	126.00	-67370.10	-993.00	-1347.40	2173.06	2173.06	-235893.00	-5690.59	9415.82	127.97	2.74	3.501
15.50	1(e)	SLU	13	7	0.00	-58519.80	-1754.62	-1754.62	-765.29	-1170.40	-185194.00	-6721.69	-4341.07	227.81	2.22	3.165
15.50	1(e)	SLU	13	7	0.00	-58519.80	-1754.62	-1754.62	-765.29	-1170.40	-174161.00	-6064.36	-4035.91	225.00	2.19	2.976
16.35	1(e)	SLU	13	7	85.00	-58229.70	749.49	1164.59	-681.74	-1164.59	-174161.00	4932.73	-4985.09	306.56	2.19	2.991
17.00	1(e)	SLU	14	7	0.00	-53102.20	356.31	1062.04	56.54	1062.04	-174161.00	4868.68	4885.09	53.44	2.42	3.280
17.00	1(e)	SLU	14	7	0.00	-53102.20	356.31	1062.04	56.54	1062.04	-174161.00	4868.68	4885.09	53.44	2.42	3.280
18.26	1(e)	SLU	14	7	126.00	-52672.30	-942.36	-1053.45	1597.32	1597.32	-174161.00	-3695.72	5710.31	118.12	2.50	3.307
18.50	1	SLU	15	7	0.00	-43957.30	-1742.14	-1742.14	-1204.23	-1204.23	-43957.30	-5674.88	-3840.84	225.00	2.90	3.236
18.50	1	SLU	15	7	0.00	-43957.30	-1742.14	-1742.14	-1204.23	-1204.23	-43957.30	-5674.88	-3840.84	225.00	2.90	3.236
19.35	1(e)	SLU	15	7	85.00	-43667.20	742.53	873.34	-789.20	-873.34	-174161.00	4709.48	-4638.52	306.56	2.91	3.988
20.00	1(e)	SLU	16	7	0.00	-38438.30	195.72	768.76	148.34	768.76	-174161.00	4590.64	4474.76	53.44	3.22	4.531
20.00	1(e)	SLU	16	7	0.00	-38438.30	195.72	768.76	148.34	768.76	-174161.00	4590.64	4474.76	53.44	3.22	4.531
21.26	1	SLU	16	7	126.00	-38008.30	-810.78	-810.78	1609.85	1609.85	-38008.30	-2847.77	5666.75	113.20	3.46	3.519
21.50	1	SLU	17	7	0.00	-29283.90	-1655.56	-1655.56	-1244.48	-1244.48	-29283.90	-4858.43	-3714.66	227.81	3.85	2.953
21.50	1	SLU	17	7	0.00	-29283.90	-1655.56	-1655.56	-1244.48	-1244.48	-29283.90	-4858.43	-3714.66	227.81	3.85	2.953
22.35	1	SLU	17	7	85.00	-28993.80	742.80	742.80	-789.98	-789.98	-28993.80	4027.36	-4364.25	303.75	3.89	5.477
23.00	1(e)	SLU	18	7	0.00	-23448.10	-300.83	-468.96	155.48	468.96	-174161.00	-3990.81	4036.53	125.16	4.33	7.428
23.00	1(e)	SLU	18	7	0.00	-23448.10	-300.83	-468.96	155.48	468.96	-174161.00	-3990.81	4036.53	125.16	4.33	7.428
24.26	1	SLU	18	7	126.00	-23018.10	-563.37	-563.37	1676.29	1676.29	-23018.10	-1669.53	5048.09	101.25	6.39	3.000



Relazione di calcolo

24.50	1	SLU	19	7	0.00	-14290.80	-1461.27	-1461.27	-1070.95	-1070.95	-14290.80	-4295.16	-3065.84	225.00	5.34	2.913
24.50	1	SLU	19	7	0.00	-14290.80	-1461.27	-1461.27	-1070.95	-1070.95	-14290.80	-4295.16	-3065.84	225.00	5.34	2.913
25.35	1	SLU	19	7	85.00	-14000.80	875.02	875.02	-844.83	-844.83	-14000.80	3763.41	-3551.50	306.56	5.25	4.254
26.00	1(e)	SLU	20	7	0.00	-7702.54	-1041.40	-1041.40	5.46	-154.05	-7702.54	-4254.59	-687.89	185.62	13.89	4.094
26.00	1(e)	SLU	20	7	0.00	-7702.54	-1041.40	-1041.40	5.46	-154.05	-7702.54	-4254.59	-687.89	185.62	13.89	4.094
27.26	1	SLU	20	7	126.00	-7272.56	516.65	516.65	2260.27	2260.27	-7272.56	817.83	3520.48	85.78	12.53	1.559

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ <sub>c</sub>	σ <sub>ε</sub>	
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>	
0.00	2	SLE	R	1	1	0.00	-42190.80	-16.12	843.77	0.00	12.31	23.87	345.35
0.00	4	SLE	Q	1	1	0.00	-36123.70	-19.91	712.56	0.00	12.31	20.42	295.52
0.00	2	SLE	R	1	1	0.00	-42190.80	-16.12	843.77	0.00	12.31	23.87	345.35
0.00	4	SLE	Q	1	1	0.00	-36123.70	-19.91	712.56	0.00	12.31	20.42	295.52
1.00	2	SLE	R	1	1	100.00	-41690.80	-76.91	1072.56	0.00	12.31	25.25	361.37
1.00	4	SLE	Q	1	1	100.00	-35623.70	-61.82	883.03	0.00	12.31	21.37	306.32
1.00	2	SLE	R	2	1	0.00	-47194.20	-170.83	1035.61	0.00	12.31	28.20	404.01
1.00	4	SLE	Q	2	1	0.00	-40305.90	-143.70	847.50	0.00	12.31	23.88	342.49
1.35	2	SLE	R	2	1	35.00	-47019.20	-56.65	1146.66	0.00	12.31	27.94	401.17
1.35	4	SLE	Q	2	1	35.00	-40130.90	-44.94	932.90	0.00	12.31	23.59	339.18
2.00	2	SLE	R	3	1	0.00	-53835.00	-81.58	-488.15	0.00	12.31	27.76	407.41
2.00	4	SLE	Q	3	1	0.00	-45827.20	-74.46	-373.27	0.00	12.31	23.44	344.47
2.00	2	SLE	R	3	1	0.00	-53835.00	-81.58	-488.15	0.00	12.31	27.76	407.41
2.00	4	SLE	Q	3	1	0.00	-45827.20	-74.46	-373.27	0.00	12.31	23.44	344.47
2.75	2	SLE	R	3	1	75.00	-53460.00	837.20	-469.48	0.00	12.31	32.53	461.90
2.75	4	SLE	Q	3	1	75.00	-45452.20	710.07	-361.87	0.00	12.31	27.45	390.18
2.75	2	SLE	R	4	1	0.00	-69307.50	578.09	-449.29	0.00	12.31	37.95	549.42
2.75	4	SLE	Q	4	1	0.00	-58886.70	489.55	-350.17	0.00	12.31	32.07	464.65
3.26	2	SLE	R	4	1	51.00	-69052.50	1709.85	-417.02	0.00	12.31	45.22	632.88
3.26	4	SLE	Q	4	1	51.00	-58631.70	1484.10	-332.73	0.00	12.31	38.50	538.48
3.50	2	SLE	R	5	10	0.00	-85277.50	-1431.89	-782.26	0.00	12.31	75.11	1049.06
3.50	4	SLE	Q	5	10	0.00	-72148.40	-1240.83	-646.03	0.00	12.31	63.64	888.80
3.50	2	SLE	R	5	10	0.00	-85277.50	-1431.89	-782.26	0.00	9.24	77.41	1081.20
3.50	4	SLE	Q	5	10	0.00	-72148.40	-1240.83	-646.03	0.00	9.24	65.60	916.15
4.35	2	SLE	R	5	10	85.00	-84980.00	-723.20	778.85	0.00	9.24	70.38	999.41
4.35	4	SLE	Q	5	10	85.00	-71850.90	-613.09	565.00	0.00	9.24	58.54	834.28
5.00	2	SLE	R	6	10	0.00	-80422.80	524.59	-754.26	0.00	9.24	65.26	930.12
5.00	4	SLE	Q	6	10	0.00	-68341.30	421.47	-371.78	0.00	9.24	52.38	756.32
5.00	2	SLE	R	6	10	0.00	-80422.80	524.59	-754.26	0.00	9.24	65.26	930.12
5.00	4	SLE	Q	6	10	0.00	-68341.30	421.47	-371.78	0.00	9.24	52.38	756.32
6.26	2	SLE	R	6	10	126.00	-79981.80	1192.69	-356.28	0.00	9.24	67.18	953.41
6.26	4	SLE	Q	6	10	126.00	-67900.30	1034.10	-328.00	0.00	9.24	57.51	814.76
6.50	2	SLE	R	7	10	0.00	-73712.80	-1034.40	-799.49	0.00	9.24	66.26	926.43
6.50	4	SLE	Q	7	10	0.00	-62263.50	-901.44	-726.93	0.00	9.24	56.78	791.62
6.50	2	SLE	R	7	10	0.00	-73712.80	-1034.40	-799.49	0.00	9.24	66.26	926.43
6.50	4	SLE	Q	7	10	0.00	-62263.50	-901.44	-726.93	0.00	9.24	56.78	791.62
7.35	2	SLE	R	7	10	85.00	-73415.30	-709.64	809.50	0.00	9.24	63.06	888.73
7.35	4	SLE	Q	7	10	85.00	-61966.00	-599.82	556.60	0.00	9.24	51.90	735.46
8.00	2	SLE	R	8	10	0.00	-69323.40	250.66	-102.54	0.00	9.24	48.54	715.58
8.00	4	SLE	Q	8	10	0.00	-58879.30	187.02	198.77	0.00	9.24	42.16	617.93
8.00	2	SLE	R	8	10	0.00	-69323.40	250.66	-102.54	0.00	9.24	48.54	715.58
8.00	4	SLE	Q	8	10	0.00	-58879.30	187.02	198.77	0.00	9.24	42.16	617.93
9.26	2	SLE	R	8	10	126.00	-68882.40	1231.75	-600.00	0.00	9.24	62.91	877.94
9.26	4	SLE	Q	8	10	126.00	-58438.30	1077.17	-541.01	0.00	9.24	54.02	752.12
9.50	2	SLE	R	9	10	0.00	-62611.60	-1031.96	-1115.95	0.00	9.24	62.36	854.83
9.50	4	SLE	Q	9	10	0.00	-52789.90	-907.70	-1004.80	0.00	9.24	53.61	732.35
9.50	2	SLE	R	9	10	0.00	-62611.60	-1031.96	-1115.95	0.00	9.24	62.36	854.83
9.50	4	SLE	Q	9	10	0.00	-52789.90	-907.70	-1004.80	0.00	9.24	53.61	732.35
10.35	2	SLE	R	9	10	85.00	-62314.10	-696.52	669.01	0.00	9.24	54.23	762.67
10.35	4	SLE	Q	9	10	85.00	-52492.40	-591.14	433.34	0.00	9.24	44.36	627.77
11.00	2	SLE	R	10	10	0.00	-58515.30	240.35	221.03	0.00	9.24	42.67	622.88
11.00	4	SLE	Q	10	10	0.00	-49668.40	177.69	488.87	0.00	9.24	39.14	560.92
11.00	2	SLE	R	10	10	0.00	-58515.30	240.35	221.03	0.00	9.24	42.67	622.88
11.00	4	SLE	Q	10	10	0.00	-49668.40	177.69	488.87	0.00	9.24	39.14	560.92
12.26	2	SLE	R	10	10	126.00	-58074.30	1275.52	-717.52	0.00	9.24	57.54	791.12
12.26	4	SLE	Q	10	10	126.00	-49227.40	1121.74	-647.16	0.00	9.24	49.58	679.63
12.50	2	SLE	R	11	10	0.00	-51787.50	-1050.63	-1268.93	0.00	9.24	57.11	769.20
12.50	4	SLE	Q	11	10	0.00	-43557.60	-930.99	-1143.86	0.00	9.24	49.30	661.13
12.50	2	SLE	R	11	10	0.00	-51787.50	-1050.63	-1268.93	0.00	9.24	57.11	769.20
12.50	4	SLE	Q	11	10	0.00	-43557.60	-930.99	-1143.86	0.00	9.24	49.30	661.13
13.35	2	SLE	R	11	10	85.00	-51490.00	-728.59	601.25	0.00	9.24	46.79	652.79
13.35	4	SLE	Q	11	10	85.00	-43260.10	-619.79	373.05	0.00	9.24	37.99	533.90
14.00	2	SLE	R	12	10	0.00	-47805.20	168.59	345.35	0.00	9.24	36.33	525.01
14.00	4	SLE	Q	12	10	0.00	-40540.70	117.78	605.83	0.00	9.24	33.87	478.93
14.00	2	SLE	R	12	10	0.00	-47805.20	168.59	345.35	0.00	9.24	36.33	525.01
14.00	4	SLE	Q	12	10	0.00	-40540.70	117.78	605.83	0.00	9.24	33.87	478.93
15.26	2	SLE	R	12	10	126.00	-47364.20	1524.92	-727.48	0.00	9.24	53.08	715.48
15.26	4	SLE	Q	12	10	126.00	-40099.70	1338.87	-647.09	0.00	9.24	45.72	614.68
15.50	2	SLE	R	13	7	0.00	-41159.50	-541.97	-1288.09	0.00	9.24	61.10	806.10
15.50	4	SLE	Q	13	7	0.00	-34504.40	-486.87	-1145.50	0.00	9.24	52.65	691.24



Relazione di calcolo

15.50	2	SLE R	13	7	0.00	-41159.50	-541.97	-1288.09	0.00	6.16	63.58	839.10
15.50	4	SLE Q	13	7	0.00	-34504.40	-486.87	-1145.50	0.00	6.16	54.79	719.51
16.35	2	SLE R	13	7	85.00	-40936.30	-477.29	513.14	0.00	6.16	51.23	702.44
16.35	4	SLE Q	13	7	85.00	-34281.30	-401.92	311.83	0.00	6.16	41.26	570.02
17.00	2	SLE R	14	7	0.00	-37375.70	36.89	337.40	0.00	6.16	38.16	550.52
17.00	4	SLE Q	14	7	0.00	-31658.70	5.43	567.98	0.00	6.16	35.92	506.33
17.00	2	SLE R	14	7	0.00	-37375.70	36.89	337.40	0.00	6.16	38.16	550.52
17.00	4	SLE Q	14	7	0.00	-31658.70	5.43	567.98	0.00	6.16	35.92	506.33
18.26	2	SLE R	14	7	126.00	-37044.90	1122.83	-694.39	0.00	6.16	61.32	793.44
18.26	4	SLE Q	14	7	126.00	-31327.90	989.10	-630.63	0.00	6.16	53.15	684.80
18.50	2	SLE R	15	7	0.00	-30937.20	-849.94	-1282.06	0.00	6.16	59.87	759.20
18.50	4	SLE Q	15	7	0.00	-25819.20	-756.77	-1147.63	0.00	6.16	52.02	655.60
18.50	2	SLE R	15	7	0.00	-30937.20	-849.94	-1282.06	0.00	6.16	59.87	759.20
18.50	4	SLE Q	15	7	0.00	-25819.20	-756.77	-1147.63	0.00	6.16	52.02	655.60
19.35	2	SLE R	15	7	85.00	-30714.10	-552.46	506.93	0.00	6.16	43.46	580.45
19.35	4	SLE Q	15	7	85.00	-25596.10	-468.26	304.19	0.00	6.16	34.66	466.44
20.00	2	SLE R	16	7	0.00	-27081.20	100.91	221.16	0.00	6.16	28.57	408.25
20.00	4	SLE Q	16	7	0.00	-22917.20	60.27	473.15	0.00	6.16	27.84	386.22
20.00	2	SLE R	16	7	0.00	-27081.20	100.91	221.16	0.00	6.16	28.57	408.25
20.00	4	SLE Q	16	7	0.00	-22917.20	60.27	473.15	0.00	6.16	27.84	386.22
21.26	2	SLE R	16	7	126.00	-26750.50	1132.29	-599.24	0.00	6.16	51.20	645.72
21.26	4	SLE Q	16	7	126.00	-22586.50	1000.11	-550.41	0.00	6.16	44.70	560.88
21.50	2	SLE R	17	7	0.00	-20636.50	-877.82	-1220.76	1.54	4.62	52.69	640.26
21.50	4	SLE Q	17	7	0.00	-17070.40	-779.82	-1096.53	1.54	4.62	46.70	561.66
21.50	2	SLE R	17	7	0.00	-20636.50	-877.82	-1220.76	1.54	4.62	52.69	640.26
21.50	4	SLE Q	17	7	0.00	-17070.40	-779.82	-1096.53	1.54	4.62	46.70	561.66
22.35	2	SLE R	17	7	85.00	-20413.40	-552.66	506.43	0.00	6.16	34.44	445.15
22.35	4	SLE Q	17	7	85.00	-16847.30	-468.55	303.48	0.00	6.16	27.00	351.50
23.00	2	SLE R	18	7	0.00	-16552.30	106.06	-137.74	0.00	6.16	18.25	257.74
23.00	4	SLE Q	18	7	0.00	-13977.20	65.55	173.05	0.00	6.16	15.81	222.38
23.00	2	SLE R	18	7	0.00	-16552.30	106.06	-137.74	0.00	6.16	18.25	257.74
23.00	4	SLE Q	18	7	0.00	-13977.20	65.55	173.05	0.00	6.16	15.81	222.38
24.26	2	SLE R	18	7	126.00	-16221.60	1178.85	-421.11	1.54	4.62	42.94	511.75
24.26	4	SLE Q	18	7	126.00	-13646.40	1035.73	-402.68	1.54	4.62	38.34	452.70
24.50	2	SLE R	19	7	0.00	-10106.20	-754.24	-1083.35	3.08	3.08	48.61	536.63
24.50	4	SLE Q	19	7	0.00	-8126.95	-683.76	-985.18	3.08	3.08	45.69	492.22
24.50	2	SLE R	19	7	0.00	-10106.20	-754.24	-1083.35	3.08	3.08	48.61	536.63
24.50	4	SLE Q	19	7	0.00	-8126.95	-683.76	-985.18	3.08	3.08	45.69	492.22
25.35	2	SLE R	19	7	85.00	-9883.03	-589.34	601.48	1.54	4.62	29.95	353.67
25.35	4	SLE Q	19	7	85.00	-7903.82	-491.19	383.20	1.54	4.62	22.32	265.68
26.00	2	SLE R	20	7	0.00	-5475.25	5.09	-674.02	3.08	3.08	16.83	196.63
26.00	4	SLE Q	20	7	0.00	-4561.93	3.60	-286.56	0.00	6.16	8.15	105.79
26.00	2	SLE R	20	7	0.00	-5475.25	5.09	-674.02	3.08	3.08	16.83	196.63
26.00	4	SLE Q	20	7	0.00	-4561.93	3.60	-286.56	0.00	6.16	8.15	105.79
27.26	2	SLE R	20	7	126.00	-5144.50	1580.03	378.02	3.08	3.08	66.26	1592.93
27.26	4	SLE Q	20	7	126.00	-4231.18	1310.09	317.49	3.08	3.08	55.11	1328.07

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.50	4	SLE Q	19	7	0.00	-8126.95	-985.18	-683.76	39.00	208.00	0.50	14.00	131.13	1.54	58.42	487.49	0.14	0.03
24.50	3	SLE F	19	7	0.00	-8661.52	-1014.06	-704.15	39.00	0.00	0.50	14.00	129.17	1.54	56.26	475.27	0.14	0.03
24.50	4	SLE Q	19	7	0.00	-8126.95	-985.18	-683.76	39.00	208.00	0.50	14.00	131.13	1.54	58.42	487.49	0.14	0.03
24.50	3	SLE F	19	7	0.00	-8661.52	-1014.06	-704.15	39.00	0.00	0.50	14.00	129.17	1.54	56.26	475.27	0.14	0.03
27.26	4	SLE Q	20	7	126.00	-4231.18	317.49	1310.09	39.00	258.00	0.50	14.00	250.11	1.54	189.25	1328.07	0.39	0.16
27.26	3	SLE F	20	7	126.00	-4463.71	333.89	1377.69	39.00	258.00	0.50	14.00	249.99	1.54	189.11	1394.41	0.41	0.17

Stato limite ultimo - Verifiche a taglio

X0 <mm>	X1 <mm>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <mm>	d <sub>y</sub> <mm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <mm>	d <sub>z</sub> <mm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	1.35	ø8/20	2	21	SLU	0.50	0.35	462.06	2.50	12369.40	32873.20	12369.40	0.40	0.45	441.34	2.50	15893.50	33791.00	15893.50	26.770	
2.00	3.26	ø8/20	2	21	SLU	0.50	0.35	3178.14	2.50	12369.40	32340.50	12369.40	0.40	0.45	89.70	2.50	15893.50	33243.40	15893.50	3.892	
3.50	4.35	ø6/15	2	21	SLU	0.35	0.35	1181.59	1.65	6132.41	6132.41	6132.41	0.40	0.30	2572.78	1.81	5749.16	5749.16	5749.16	2.235	
5.00	5.45	ø6/15	2	21	SLU	0.35	0.35	755.74	2.14	7926.02	7926.02	7926.02	0.40	0.30	538.66	2.31	7365.12	7365.12	7365.12	10.488	
5.45	5.81	ø6/15	2	21	SLU	0.35	0.35	755.74	2.15	7973.19	7973.19	7973.19	0.40	0.30	538.66	2.33	7407.79	7407.79	7407.79	10.550	
5.81	6.26	ø6/15	2	21	SLU	0.35	0.35	755.74	2.16	8010.73	8010.73	8010.73	0.40	0.30	538.66	2.34	7441.75	7441.75	7441.75	10.600	
6.50	7.35	ø6/15	2	21	SLU	0.35	0.35	539.14	2.50	9277.05	10355.50	9277.05	0.40	0.30	2636.33	2.50	7955.54	10149.00	7955.54	3.018	
8.00	8.45	ø6/15	2	21	SLU	0.35	0.35	1109.03	2.50	9277.05	12481.50	9277.05	0.40	0.30	444.73	2.50	7955.54	12232.60	7955.54	8.365	
8.45	8.81	ø6/15	2	21	SLU	0.35	0.35	1109.03	2.50	9277.05	12551.20	9277.05	0.40	0.30	444.73	2.50	7955.54	12300.90	7955.54	8.365	
8.81	9.26	ø6/15	2	21	SLU	0.35	0.35	1109.03	2.50	9277.05	12606.90	9277.05	0.40	0.30	444.73	2.50	7955.54	12355.50	7955.54	8.365	
9.50	10.35	ø6/15	2	21	SLU	0.35	0.35	555.61	2.50	9277.05	15720.80	9277.05	0.40	0.30	2921.69	2.50	7955.54	15407.30	7955.54	2.723	
11.00	11.45	ø6/15	2	21	SLU	0.35	0.35	1169.33	2.50	9277.05	17709.90	9277.05	0.40	0.30	924.11	2.50	7955.54	17356.70	7955.54	7.934	
11.45	11.81	ø6/15	2	21	SLU	0.35	0.35	1169.33	2.50	9277.05	17779.60	9277.05	0.40	0.30	924.11	2.50	7955.54	17425.00	7955.54	7.934	
11.81	12.26	ø6/15	2	21	SLU	0.35	0.35	1169.33	2.50	9277.05	17835.40	9277.05	0.40	0.30	924.11	2.50	7955.54	17479.70	7955.54	7.934	
12.50	13.35	ø6/15	2	21	SLU	0.35	0.35	532.31	2.50	9277.05	20957.20	9277.05	0.40	0.30	3057.36	2.50	7955.54	20539.30	7955.54	2.602	
14.00	14.45	ø6/15	2	21	SLU	0.35	0.35	1531.62	2.50	9277.05	22893.80	9277.05	0.40	0.30	1069.12	2.50	7955.54	22437.30	7955.54	6.057	
14.45	14.81	ø6/15	2	21	SLU	0.35	0.35	1531.62	2.50	9277.05	22963.50	9277.05	0.40	0.30	1069.12	2.50	7955.54	22505.60	7955.54	6.057	
14.81	15.26	ø6/15	2	21	SLU	0.35	0.35	1531.62	2.50	9277.05	23011.20	9277.05	0.40	0.30	1069.12	2.50	7955.54	22552.30	7955.54	6.057	
15.50	16.35	ø6/15	2	21	SLU	0.35	0.25	98.29	2.50	6634.02	13916.90	6634.02	0.30	0.30	2946.02	2.50	7955.54	14305.00	7955.54	2.700	
17.00	17.45	ø6/15	2	21	SLU	0.35	0.25	1222.84	2.50	6634.02	15675.30	6634.02	0.30	0.30	1030.69	2.50	7955.54	16112.40	7955.54	5.425	
17.45	17.81	ø6/15	2	21	SLU	0.35	0.25	1222.84	2.50	6634.02	15725.10	6634.02	0.30	0.30	1030.69	2.50	7955.54	16163.70	7955.54	5.425	
17.81	18.26	ø6/15	2	21	SLU	0.35	0.25	1222.84	2.50	6634.02	15765.00	6634.02	0.30	0.30	1030.69	2.50	7955.54	16204.70	7955.54	5.425	
18.50	19.35	ø6/15	2	21	SLU	0.35	0.25	488.27	2.50	6634.02	16455.30	6634.02	0.30	0.30	2923.14	2.50	7955.54	16914.20	7955.54	2.722	
20.00	20.45	ø6/15	2	21	SLU	0.35	0.25	1159.93	2.50	6634.02	16455.30	6634.02	0.30	0.30	798.81	2.50	7955.54	16914.20	7955.54	5.719	
20.45	20.81	ø6/15	2	21	SLU	0.35	0.25	1159.93	2.50	6634.02	16455.30	6634.02	0.30	0.30	798.81	2.50	7955.54	16914.20	7955.54	5.719	



Relazione di calcolo

20.81	21.26	ø6/15	2	21	SLU	0.35	0.25	1159.93	2.50	6634.02	16455.30	6634.02	0.30	0.30	798.81	2.50	7955.54	16914.20	7955.54	5.719
21.50	22.35	ø6/15	2	21	SLU	0.35	0.25	534.71	2.50	6634.02	16455.30	6634.02	0.30	0.30	2821.59	2.50	7955.54	16914.20	7955.54	2.820
23.00	23.45	ø6/15	2	21	SLU	0.35	0.25	1206.99	2.50	6634.02	16208.50	6634.02	0.30	0.30	208.37	2.50	7955.54	16660.50	7955.54	5.496
23.45	23.81	ø6/15	2	21	SLU	0.35	0.25	1206.99	2.50	6634.02	16188.50	6634.02	0.30	0.30	208.37	2.50	7955.54	16640.00	7955.54	5.496
23.81	24.26	ø6/15	2	21	SLU	0.35	0.25	1206.99	2.50	6634.02	16172.60	6634.02	0.30	0.30	208.37	2.50	7955.54	16623.60	7955.54	5.496
24.50	25.35	ø6/15	2	21	SLU	0.35	0.25	266.02	2.50	6634.02	15019.60	6634.02	0.30	0.30	2748.58	2.50	7955.54	15438.50	7955.54	2.894
26.00	26.45	ø6/15	2	21	SLU	0.35	0.25	1789.53	2.50	6634.02	14164.30	6634.02	0.30	0.30	1236.55	2.50	7955.54	14559.30	7955.54	3.707
26.45	26.81	ø6/15	2	21	SLU	0.35	0.25	1789.53	2.50	6634.02	14144.30	6634.02	0.30	0.30	1236.55	2.50	7955.54	14538.80	7955.54	3.707
26.81	27.26	ø6/15	2	21	SLU	0.35	0.25	1789.53	2.50	6634.02	14128.40	6634.02	0.30	0.30	1236.56	2.50	7955.54	14522.40	7955.54	3.707

Pilastrata n. 52

Nodi: 152 -7148 252 -7143 352 452 552 652 752 852 952 1052 1152 1252 1352 1452 1552 1652 1752 1852 1952

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1R		40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
1R		40.00	50.00	3.00	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-64985.10	1101.79	1299.70	-199.11	-1299.70	-333837.00	11774.20	-11625.80	302.34	3.78	5.137
0.00	1(e)	SLU	1	1	0.00	-64985.10	1101.79	1299.70	-199.11	-1299.70	-333837.00	11774.20	-11625.80	302.34	3.78	5.137
1.00	1(e)	SLU	1	1	100.00	-64335.10	1763.13	1763.13	109.46	1286.70	-333837.00	13628.30	10201.00	50.62	3.79	5.189
1.00	1(e)	SLU	2	1	0.00	-71327.90	1823.36	1823.36	217.09	1426.56	-333837.00	13667.20	10814.10	52.03	3.52	4.680
1.35	1(e)	SLU	2	1	35.00	-71100.40	2171.43	2171.43	50.56	1422.01	-333837.00	14749.70	9916.09	47.81	3.55	4.695
2.00	1(e)	SLU	3	1	0.00	-78063.50	-1516.76	-1561.27	74.06	1561.27	-333837.00	-12237.40	12339.70	122.34	3.32	4.276
2.00	1(e)	SLU	3	1	0.00	-78063.50	-1516.76	-1561.27	74.06	1561.27	-333837.00	-12237.40	12339.70	122.34	3.32	4.276
2.75	1(e)	SLU	3	1	75.00	-77576.00	-948.00	-1551.52	-1225.80	-1551.52	-333837.00	-12229.40	-12315.80	237.66	3.34	4.303
2.75	1(e)	SLU	4	1	0.00	-99524.40	-748.80	-1990.49	-883.68	-1990.49	-333837.00	-13021.00	-12736.10	236.25	2.74	3.354
3.26	1(e)	SLU	4	1	51.00	-99192.90	-231.94	-1983.86	-2264.18	-2264.18	-333837.00	-11961.50	-13461.10	239.06	2.76	3.366
3.50	1(e)	SLU	5	10	0.00	-122307.00	-241.94	-2446.15	2111.88	2446.15	-246925.00	-8043.49	8138.83	142.03	1.32	2.019
3.50	1(e)	SLU	5	10	0.00	-122307.00	-241.94	-2446.15	2111.88	2446.15	-235893.00	-7458.11	7608.71	139.22	1.23	1.929
4.35	1(e)	SLU	5	10	85.00	-121921.00	1066.86	2438.41	1039.28	2438.41	-235893.00	7468.34	7617.46	40.78	1.23	1.935
5.00	1(e)	SLU	6	10	0.00	-114794.00	-2391.83	-2391.83	-708.65	-2295.88	-235893.00	-7872.06	-7489.68	219.38	1.39	2.055
5.00	1(e)	SLU	6	10	0.00	-114794.00	-2391.83	-2391.83	-708.65	-2295.88	-235893.00	-7872.06	-7489.68	219.38	1.39	2.055
6.26	1(e)	SLU	6	10	126.00	-114221.00	534.08	2284.42	-1704.96	-2284.42	-235893.00	7651.87	-7767.22	319.22	1.40	2.065
6.50	1(e)	SLU	7	10	0.00	-105523.00	562.96	2110.46	1317.22	2110.46	-235893.00	7793.52	7893.17	40.78	1.59	2.235
6.50	1(e)	SLU	7	10	0.00	-105523.00	562.96	2110.46	1317.22	2110.46	-235893.00	7793.52	7893.17	40.78	1.59	2.235
7.35	1(e)	SLU	7	10	85.00	-105136.00	825.33	2102.73	928.26	2102.73	-235893.00	7798.92	7897.81	40.78	1.60	2.244
8.00	1(e)	SLU	8	10	0.00	-98783.60	-2432.14	-2432.14	-363.47	-1975.67	-235893.00	-8667.17	-7098.14	216.56	1.75	2.388
8.00	1(e)	SLU	8	10	0.00	-98783.60	-2432.14	-2432.14	-363.47	-1975.67	-235893.00	-8667.17	-7098.14	216.56	1.75	2.388
9.26	1(e)	SLU	8	10	126.00	-98210.30	809.30	1964.21	-1698.60	-1964.21	-235893.00	7875.68	-7957.55	319.22	1.77	2.402
9.50	1(e)	SLU	9	10	0.00	-89516.80	883.13	1790.33	1233.33	1790.33	-235893.00	7866.71	7906.60	40.78	1.99	2.635
9.50	1(e)	SLU	9	10	0.00	-89516.80	883.13	1790.33	1233.33	1790.33	-235893.00	7866.71	7906.60	40.78	1.99	2.635
10.35	1(e)	SLU	9	10	85.00	-89130.00	589.66	1782.60	915.83	1782.60	-235893.00	7865.59	7903.55	40.78	2.00	2.647
11.00	1(e)	SLU	10	10	0.00	-83209.00	-2498.60	-2498.60	-339.86	-1664.18	-235893.00	-9364.74	-6107.61	212.34	2.18	2.835
11.00	1(e)	SLU	10	10	0.00	-83209.00	-2498.60	-2498.60	-339.86	-1664.18	-235893.00	-9364.74	-6107.61	212.34	2.18	2.835
12.26	1(e)	SLU	10	10	126.00	-82635.70	956.71	1652.71	-1687.84	-1687.84	-235893.00	7829.42	-7832.32	319.22	2.19	2.855
12.50	1(e)	SLU	11	10	0.00	-73910.90	1055.85	1478.22	1253.26	1478.22	-235893.00	7747.21	7699.53	40.78	2.45	3.192
12.50	1(e)	SLU	11	10	0.00	-73910.90	1055.85	1478.22	1253.26	1478.22	-235893.00	7747.21	7699.53	40.78	2.45	3.192
13.35	1(e)	SLU	11	10	85.00	-73524.10	489.25	1470.48	961.79	1470.48	-235893.00	7742.37	7692.30	40.78	2.46	3.208
14.00	1(e)	SLU	12	10	0.00	-67797.80	-2526.27	-2526.27	-267.66	-1355.96	-235893.00	-9778.98	-5131.48	208.12	2.74	3.479
14.00	1(e)	SLU	12	10	0.00	-67797.80	-2526.27	-2526.27	-267.66	-1355.96	-235893.00	-9778.98	-5131.48	208.12	2.74	3.479
15.26	1(e)	SLU	12	10	126.00	-67224.50	962.20	1344.49	-2111.81	-2111.81	-235893.00	5936.36	-9198.67	309.38	2.73	3.509
15.50	1(e)	SLU	13	7	0.00	-58604.20	1019.65	1172.08	307.32	1172.08	-185194.00	5411.72	5267.18	56.25	2.22	3.160
15.50	1(e)	SLU	13	7	0.00	-58604.20	1019.65	1172.08	307.32	1172.08	-174161.00	4936.76	4990.88	53.44	2.17	2.972
16.35	1(e)	SLU	13	7	85.00	-58314.20	373.20	1166.28	620.18	1166.28	-174161.00	4933.64	4986.40	53.44	2.18	2.987
17.00	1(e)	SLU	14	7	0.00	-52698.50	-2352.74	-2352.74	-147.85	1053.97	-52698.50	-6840.18	3072.27	143.44	2.53	2.909
17.00	1(e)	SLU	14	7	0.00	-52698.50	-2352.74	-2352.74	-147.85	1053.97	-52698.50	-6840.18	3072.27	143.44	2.53	2.909
18.26	1	SLU	14	7	126.00	-52268.60	1079.90	1079.90	-1326.05	-1326.05	-174161.00	4282.60	-5291.69	302.34	2.49	3.332
18.50	1(e)	SLU	15	7	0.00	-43780.10	1052.37	1052.37	795.58	875.60	-174161.00	5201.23	4240.10	49.22	2.89	3.978
18.50	1(e)	SLU	15	7	0.00	-43780.10	1052.37	1052.37	795.58	875.60	-174161.00	5201.23	4240.10	49.22	2.89	3.978
19.35	1(e)	SLU	15	7	85.00	-43490.10	307.82	869.80	771.59	869.80	-174161.00	4705.78	4633.17	53.44	2.92	4.005
20.00	1(e)	SLU	16	7	0.00	-37986.00	-2358.36	-2358.36	-218.23	759.72	-37986.00	-6953.43	2213.67	150.47	3.55	2.945
20.00	1(e)	SLU	16	7	0.00	-37986.00	-2358.36	-2358.36	-218.23	759.72	-37986.00	-6953.43	2213.67	150.47	3.55	2.945
21.26	1	SLU	16	7	126.00	-37556.00	1148.53	1148.53	-1359.61	-1359.61	-37556.00	4075.71	-4817.55	302.34	3.31	3.546
21.50	1	SLU	17	7	0.00	-29031.80	940.30	940.30	788.31	788.31	-29031.80	4585.40	3923.49	50.62	3.86	4.918
21.50	1	SLU	17	7	0.00	-29031.80	940.30	940.30	788.31	788.31	-29031.80	4585.40	3923.49	50.62	3.86	4.918
22.35	1(e)	SLU	17	7	85.00	-28741.70	316.05	574.84	791.38	791.38	-28741.70	3382.37	4830.17	61.88	4.01	6.029
23.00	1(e)	SLU	18	7	0.00	-23161.60	-2341.61	-2341.61	-165.34	463.23	-23161.60	-6069.38	1255.98	165.94	6.86	2.597
23.00	1(e)	SLU	18	7	0.00	-23161.60	-2341.61	-2341.61	-165.34	463.23	-23161.60	-6069.38	1255.98	165.94	6.86	2.597
24.26	1	SLU	18	7	126.00	-22731.60	979.43	979.43	-1390.26	-1390.26	-22731.60	3169.93	-4545.92	296.72	4.63	3.259
24.50	1	SLU	19	7	0.00	-14127.90	371.14	371.14	888.61	888.61	-14127.90	1775.05	4160.74	78.75	8.03	4.697
24.50	1	SLU	19	7	0.00	-14127.90	371.14	371.14	888.61	888.61	-14127.90	1775.05	4160.74	78.75	8.03	4.697
25.35	1	SLU	19	7	85.00	-13837.80	702.00	702.00	920.13	920.13	-13837.80	2871.14	3892.26	67.50	6.18	4.179
26.00	1	SLU	20	7	0.00	-7568.94	-2167.79	-2167.79	249.56	249.56	-7568.94	-4251.95	546.79	175.78	14.81	1.965
26.00	1	SLU	20	7	0.00	-7568.94	-2167.79	-2167.79	249.56	249.56	-7568.94	-4251.95	546.79	175.78	14.81	1.965
27.26	1	SLU	20	7	126.00	-7138.96	759.18	759.18	-2247.06	-2247.06	-7138.96	1188.77	-3487.00	276.33	11.56	1.555



# Relazione di calcolo

1.352	SLE R	2	1	35.00	-50074.80	36.51	1531.16	0.00	12.31	31.23	445.40
1.354	SLE Q	2	1	35.00	-42380.70	29.28	1161.08	0.00	12.31	25.71	368.14
2.002	SLE R	3	1	0.00	-54947.60	49.74	-1065.86	0.00	12.31	31.10	449.86
2.004	SLE Q	3	1	0.00	-46707.70	47.09	-764.80	0.00	12.31	25.72	373.66
2.002	SLE R	3	1	0.00	-54947.60	49.74	-1065.86	0.00	12.31	31.10	449.86
2.004	SLE Q	3	1	0.00	-46707.70	47.09	-764.80	0.00	12.31	25.72	373.66
2.752	SLE R	3	1	75.00	-54572.60	-861.03	-645.17	0.00	12.31	34.13	482.71
2.754	SLE Q	3	1	75.00	-46332.70	-728.82	-418.17	0.00	12.31	28.28	401.30
2.752	SLE R	4	1	0.00	-70002.60	-620.79	-502.74	0.00	12.31	38.84	560.94
2.754	SLE Q	4	1	0.00	-59395.00	-526.05	-310.99	0.00	12.31	32.34	468.43
3.262	SLE R	4	1	51.00	-69747.60	-1586.42	-116.64	0.00	12.31	43.13	608.75
3.264	SLE Q	4	1	51.00	-59140.00	-1386.86	15.86	0.00	12.31	36.41	514.03
3.502	SLE R	5	10	0.00	-86006.90	1481.41	-118.61	0.00	12.31	69.02	983.80
3.504	SLE Q	5	10	0.00	-72644.70	1275.92	16.33	0.00	12.31	57.64	823.77
3.502	SLE R	5	10	0.00	-86006.90	1481.41	-118.61	0.00	9.24	71.36	1016.42
3.504	SLE Q	5	10	0.00	-72644.70	1275.92	16.33	0.00	9.24	59.62	851.46
4.352	SLE R	5	10	85.00	-85709.40	727.35	732.20	0.00	9.24	70.40	1001.54
4.354	SLE Q	5	10	85.00	-72347.20	611.68	483.25	0.00	9.24	57.98	829.43
5.002	SLE R	6	10	0.00	-80723.80	-499.02	-1693.50	0.00	9.24	75.11	1039.72
5.004	SLE Q	6	10	0.00	-68520.10	-410.02	-1268.45	0.00	9.24	61.84	861.33
5.002	SLE R	6	10	0.00	-80723.80	-499.02	-1693.50	0.00	9.24	75.11	1039.72
5.004	SLE Q	6	10	0.00	-68520.10	-410.02	-1268.45	0.00	9.24	61.84	861.33
6.262	SLE R	6	10	126.00	-80282.80	-1194.12	422.58	0.00	9.24	68.09	964.24
6.264	SLE Q	6	10	126.00	-68079.10	-1034.69	429.64	0.00	9.24	58.70	828.42
6.502	SLE R	7	10	0.00	-74182.50	922.81	448.20	0.00	9.24	61.79	877.70
6.504	SLE Q	7	10	0.00	-62578.40	801.50	463.21	0.00	9.24	53.24	752.88
6.502	SLE R	7	10	0.00	-74182.50	922.81	448.20	0.00	9.24	61.79	877.70
6.504	SLE Q	7	10	0.00	-62578.40	801.50	463.21	0.00	9.24	53.24	752.88
7.352	SLE R	7	10	85.00	-73885.00	650.17	550.40	0.00	9.24	60.06	856.52
7.354	SLE Q	7	10	85.00	-62280.90	549.27	300.61	0.00	9.24	48.92	703.09
8.002	SLE R	8	10	0.00	-69456.40	-255.20	-1725.03	0.00	9.24	65.78	906.54
8.004	SLE Q	8	10	0.00	-58933.10	-199.20	-1303.24	0.00	9.24	53.96	748.57
8.002	SLE R	8	10	0.00	-69456.40	-255.20	-1725.03	0.00	9.24	65.78	906.54
8.004	SLE Q	8	10	0.00	-58933.10	-199.20	-1303.24	0.00	9.24	53.96	748.57
9.262	SLE R	8	10	126.00	-69015.40	-1189.97	622.53	0.00	9.24	62.83	877.24
9.264	SLE Q	8	10	126.00	-58492.10	-1038.43	608.70	0.00	9.24	54.39	756.24
9.502	SLE R	9	10	0.00	-62917.60	863.45	680.42	0.00	9.24	56.35	788.37
9.504	SLE Q	9	10	0.00	-52981.80	757.60	671.13	0.00	9.24	48.78	678.70
9.502	SLE R	9	10	0.00	-62917.60	863.45	680.42	0.00	9.24	56.35	788.37
9.504	SLE Q	9	10	0.00	-52981.80	757.60	671.13	0.00	9.24	48.78	678.70
10.352	SLE R	9	10	85.00	-62620.10	641.50	379.27	0.00	9.24	50.85	725.78
10.354	SLE Q	9	10	85.00	-52684.30	545.24	150.65	0.00	9.24	41.06	591.60
11.002	SLE R	10	10	0.00	-58504.50	-238.40	-1773.28	0.00	9.24	59.01	803.53
11.004	SLE Q	10	10	0.00	-49613.30	-184.62	-1344.93	0.00	9.24	48.20	660.95
11.002	SLE R	10	10	0.00	-58504.50	-238.40	-1773.28	0.00	9.24	59.01	803.53
11.004	SLE Q	10	10	0.00	-49613.30	-184.62	-1344.93	0.00	9.24	48.20	660.95
12.262	SLE R	10	10	126.00	-58063.50	-1182.64	729.02	0.00	9.24	56.77	782.07
12.264	SLE Q	10	10	126.00	-49172.30	-1039.06	703.20	0.00	9.24	49.34	676.47
12.502	SLE R	11	10	0.00	-51943.30	877.00	805.75	0.00	9.24	50.67	697.49
12.504	SLE Q	11	10	0.00	-43632.90	774.25	783.06	0.00	9.24	44.04	602.44
12.502	SLE R	11	10	0.00	-51943.30	877.00	805.75	0.00	9.24	50.67	697.49
12.504	SLE Q	11	10	0.00	-43632.90	774.25	783.06	0.00	9.24	44.04	602.44
13.352	SLE R	11	10	85.00	-51645.80	673.77	305.14	0.00	9.24	43.25	613.72
13.354	SLE Q	11	10	85.00	-43335.40	574.95	82.46	0.00	9.24	34.55	495.79
14.002	SLE R	12	10	0.00	-47672.40	-187.85	-1794.21	0.00	9.24	51.70	694.76
14.004	SLE Q	12	10	0.00	-40394.70	-142.42	-1364.60	0.00	9.24	42.01	568.69
14.002	SLE R	12	10	0.00	-47672.40	-187.85	-1794.21	0.00	9.24	51.70	694.76
14.004	SLE Q	12	10	0.00	-40394.70	-142.42	-1364.60	0.00	9.24	42.01	568.69
15.262	SLE R	12	10	126.00	-47231.40	-1480.66	732.82	0.00	9.24	52.62	709.90
15.264	SLE Q	12	10	126.00	-39953.70	-1294.94	713.93	0.00	9.24	45.91	616.18
15.502	SLE R	13	7	0.00	-41184.00	212.01	779.56	0.00	9.24	48.71	672.85
15.504	SLE Q	13	7	0.00	-34478.80	198.65	769.50	0.00	9.24	42.71	584.38
15.502	SLE R	13	7	0.00	-41184.00	212.01	779.56	0.00	6.16	50.77	701.12
15.504	SLE Q	13	7	0.00	-34478.80	198.65	769.50	0.00	6.16	44.53	609.14
16.352	SLE R	13	7	85.00	-40960.80	434.51	227.14	0.00	6.16	46.44	650.09
16.354	SLE Q	13	7	85.00	-34255.60	368.73	36.25	0.00	6.16	36.74	520.34
17.002	SLE R	14	7	0.00	-37064.80	-104.03	-1672.20	0.00	6.16	58.08	768.99
17.004	SLE Q	14	7	0.00	-31373.70	-68.97	-1275.41	0.00	6.16	46.84	625.45
17.002	SLE R	14	7	0.00	-37064.80	-104.03	-1672.20	0.00	6.16	58.08	768.99
17.004	SLE Q	14	7	0.00	-31373.70	-68.97	-1275.41	0.00	6.16	46.84	625.45
18.262	SLE R	14	7	126.00	-36734.10	-928.56	812.70	0.00	6.16	59.46	773.89
18.264	SLE Q	14	7	126.00	-31042.90	-818.99	767.95	0.00	6.16	51.98	672.83
18.502	SLE R	15	7	0.00	-30780.80	554.17	799.08	0.00	6.16	47.72	627.75
18.504	SLE Q	15	7	0.00	-25655.50	494.90	777.10	0.00	6.16	41.92	546.57
18.502	SLE R	15	7	0.00	-30780.80	554.17	799.08	0.00	6.16	47.72	627.75
18.504	SLE Q	15	7	0.00	-25655.50	494.90	777.10	0.00	6.16	41.92	546.57
19.352	SLE R	15	7	85.00	-30557.70	541.03	178.35	0.00	6.16	38.44	524.51
19.354	SLE Q	15	7	85.00	-25432.40	461.34	-10.63	0.00	6.16	30.21	416.72
20.002	SLE R	16	7	0.00	-26740.60	-153.44	-1676.77	0.00	6.16	50.02	643.59



Relazione di calcolo

20.00	4	SLE Q	16	7	0.00	-22617.10	-111.16	-1280.32	0.00	6.16	39.96	518.66
20.00	2	SLE R	16	7	0.00	-26740.60	-153.44	-1676.77	0.00	6.16	50.02	643.59
20.00	4	SLE Q	16	7	0.00	-22617.10	-111.16	-1280.32	0.00	6.16	39.96	518.66
21.26	2	SLE R	16	7	126.00	-26409.80	-951.69	862.80	0.00	6.16	51.66	651.58
21.26	4	SLE Q	16	7	126.00	-22286.40	-840.15	810.86	0.00	6.16	45.56	570.96
21.50	2	SLE R	17	7	0.00	-20431.50	548.68	717.49	0.00	6.16	37.41	478.10
21.50	4	SLE Q	17	7	0.00	-16873.30	495.13	707.30	0.00	6.16	33.35	421.30
21.50	2	SLE R	17	7	0.00	-20431.50	548.68	717.49	0.00	6.16	37.41	478.10
21.50	4	SLE Q	17	7	0.00	-16873.30	495.13	707.30	0.00	6.16	33.35	421.30
22.35	2	SLE R	17	7	85.00	-20208.40	555.20	183.21	0.00	6.16	29.69	391.88
22.35	4	SLE Q	17	7	85.00	-16650.20	474.67	-6.02	0.00	6.16	22.68	303.02
23.00	2	SLE R	18	7	0.00	-16337.80	-115.33	-1664.54	3.08	3.08	43.72	528.82
23.00	4	SLE Q	18	7	0.00	-13791.80	-77.39	-1268.15	3.08	3.08	33.26	410.28
23.00	2	SLE R	18	7	0.00	-16337.80	-115.33	-1664.54	3.08	3.08	43.72	528.82
23.00	4	SLE Q	18	7	0.00	-13791.80	-77.39	-1268.15	3.08	3.08	33.26	410.28
24.26	2	SLE R	18	7	126.00	-16007.00	-973.26	745.25	1.54	4.62	43.98	525.58
24.26	4	SLE Q	18	7	126.00	-13461.00	-861.13	718.31	1.54	4.62	40.14	474.11
24.50	2	SLE R	19	7	0.00	-9972.56	620.44	313.19	1.54	4.62	24.74	299.26
24.50	4	SLE Q	19	7	0.00	-8001.06	554.42	377.98	1.54	4.62	23.98	282.36
24.50	2	SLE R	19	7	0.00	-9972.56	620.44	313.19	1.54	4.62	24.74	299.26
24.50	4	SLE Q	19	7	0.00	-8001.06	554.42	377.98	1.54	4.62	23.98	282.36
25.35	2	SLE R	19	7	85.00	-9749.43	645.64	453.76	1.54	4.62	28.22	334.19
25.35	4	SLE Q	19	7	85.00	-7777.93	541.92	208.56	1.54	4.62	20.09	240.68
26.00	2	SLE R	20	7	0.00	-5388.19	177.84	-1546.20	3.08	3.08	49.08	1088.40
26.00	4	SLE Q	20	7	0.00	-4512.69	146.57	-1183.04	3.08	3.08	37.67	782.92
26.00	2	SLE R	20	7	0.00	-5388.19	177.84	-1546.20	3.08	3.08	49.08	1088.40
26.00	4	SLE Q	20	7	0.00	-4512.69	146.57	-1183.04	3.08	3.08	37.67	782.92
27.26	2	SLE R	20	7	126.00	-5057.44	-1570.77	563.31	3.08	3.08	72.58	1686.82
27.26	4	SLE Q	20	7	126.00	-4181.94	-1296.55	493.93	3.08	3.08	60.93	1406.50

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>2</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
26.00	4	SLE Q	20	7	0.00	-4512.69	-1183.04	146.57	39.00	208.00	0.50	14.00	245.42	1.54	184.09	782.92	0.23	0.10
26.00	3	SLE F	20	7	0.00	-4735.95	-1287.90	152.38	39.00	208.00	0.50	14.00	163.66	3.08	188.39	873.54	0.25	0.07
26.00	4	SLE Q	20	7	0.00	-4512.69	-1183.04	146.57	39.00	208.00	0.50	14.00	245.42	1.54	184.09	782.92	0.23	0.10
26.00	3	SLE F	20	7	0.00	-4735.95	-1287.90	152.38	39.00	208.00	0.50	14.00	163.66	3.08	188.39	873.54	0.25	0.07
27.26	4	SLE Q	20	7	126.00	-4181.94	493.93	-1296.55	39.00	258.00	0.50	14.00	221.78	1.54	158.10	1406.50	0.41	0.15
27.26	3	SLE F	20	7	126.00	-4405.20	514.07	-1365.27	39.00	258.00	0.50	14.00	222.67	1.54	159.08	1477.57	0.43	0.16

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	Bw <sub>y</sub> <mm>	d <sub>y</sub> <mm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <mm>	d <sub>z</sub> <mm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	1.35	ø8/20	2	21	SLU	0.50	0.35	475.80	2.50	12369.40	32873.20	12369.40	0.40	0.45	994.48	2.50	15893.50	33791.00	15893.50	15.982	
2.00	3.26	ø8/20	2	21	SLU	0.50	0.35	2706.85	2.50	12369.40	31980.10	12369.40	0.40	0.45	1013.46	2.50	15893.50	32873.00	15893.50	4.570	
3.50	4.35	ø6/15	2	21	SLU	0.35	0.35	1261.88	1.56	5783.53	5783.53	5783.53	0.40	0.30	1539.77	1.71	5436.82	5436.82	5436.82	3.531	
5.00	5.45	ø6/15	2	21	SLU	0.35	0.35	790.72	2.10	7808.45	7808.45	7808.45	0.40	0.30	2322.15	2.28	7258.81	7258.81	7258.81	3.126	
5.45	5.81	ø6/15	2	21	SLU	0.35	0.35	790.72	2.12	7856.33	7856.33	7856.33	0.40	0.30	2322.15	2.29	7302.10	7302.10	7302.10	3.145	
5.81	6.26	ø6/15	2	21	SLU	0.35	0.35	790.72	2.13	7894.43	7894.43	7894.43	0.40	0.30	2322.15	2.31	7336.55	7336.55	7336.55	3.159	
6.50	7.35	ø6/15	2	21	SLU	0.35	0.35	457.60	2.50	9277.05	10101.40	9277.05	0.40	0.30	308.67	2.50	7955.54	9899.90	7955.54	20.273	
8.00	8.45	ø6/15	2	21	SLU	0.35	0.35	1059.63	2.50	9277.05	12395.50	9277.05	0.40	0.30	2572.57	2.50	7955.54	12148.30	7955.54	3.092	
8.45	8.81	ø6/15	2	21	SLU	0.35	0.35	1059.63	2.50	9277.05	12465.20	9277.05	0.40	0.30	2572.57	2.50	7955.54	12216.60	7955.54	3.092	
8.81	9.26	ø6/15	2	21	SLU	0.35	0.35	1059.63	2.50	9277.05	12521.00	9277.05	0.40	0.30	2572.57	2.50	7955.54	12271.30	7955.54	3.092	
9.50	10.35	ø6/15	2	21	SLU	0.35	0.35	373.52	2.50	9277.05	15550.10	9277.05	0.40	0.30	345.26	2.50	7955.54	15239.90	7955.54	23.042	
11.00	11.45	ø6/15	2	21	SLU	0.35	0.35	1069.83	2.50	9277.05	17697.30	9277.05	0.40	0.30	2742.30	2.50	7955.54	17344.30	7955.54	2.901	
11.45	11.81	ø6/15	2	21	SLU	0.35	0.35	1069.83	2.50	9277.05	17767.00	9277.05	0.40	0.30	2742.30	2.50	7955.54	17412.60	7955.54	2.901	
11.81	12.26	ø6/15	2	21	SLU	0.35	0.35	1069.83	2.50	9277.05	17822.70	9277.05	0.40	0.30	2742.31	2.50	7955.54	17467.30	7955.54	2.901	
12.50	13.35	ø6/15	2	21	SLU	0.35	0.35	342.91	2.50	9277.05	20862.50	9277.05	0.40	0.30	666.60	2.50	7955.54	20446.40	7955.54	11.935	
14.00	14.45	ø6/15	2	21	SLU	0.35	0.35	1463.61	2.50	9277.05	22943.40	9277.05	0.40	0.30	2768.63	2.50	7955.54	22485.80	7955.54	2.873	
14.45	14.81	ø6/15	2	21	SLU	0.35	0.35	1463.61	2.50	9277.05	23011.20	9277.05	0.40	0.30	2768.63	2.50	7955.54	22552.30	7955.54	2.873	
14.81	15.26	ø6/15	2	21	SLU	0.35	0.35	1463.61	2.50	9277.05	23011.20	9277.05	0.40	0.30	2768.63	2.50	7955.54	22552.30	7955.54	2.873	
15.50	16.35	ø6/15	2	21	SLU	0.35	0.25	368.06	2.50	6634.02	13889.50	6634.02	0.30	0.30	760.53	2.50	7955.54	14276.90	7955.54	10.461	
17.00	17.45	ø6/15	2	21	SLU	0.35	0.25	935.08	2.50	6634.02	15806.30	6634.02	0.30	0.30	2724.32	2.50	7955.54	16247.10	7955.54	2.920	
17.45	17.81	ø6/15	2	21	SLU	0.35	0.25	935.08	2.50	6634.02	15856.20	6634.02	0.30	0.30	2724.32	2.50	7955.54	16298.40	7955.54	2.920	
17.81	18.26	ø6/15	2	21	SLU	0.35	0.25	935.08	2.50	6634.02	15896.00	6634.02	0.30	0.30	2724.32	2.50	7955.54	16339.30	7955.54	2.920	
18.50	19.35	ø6/15	2	21	SLU	0.35	0.25	28.23	2.50	6634.02	16455.30	6634.02	0.30	0.30	875.95	2.50	7955.54	16914.20	7955.54	9.082	
20.00	20.45	ø6/15	2	21	SLU	0.35	0.25	905.86	2.50	6634.02	16455.30	6634.02	0.30	0.30	2783.24	2.50	7955.54	16914.20	7955.54	2.858	
20.45	20.81	ø6/15	2	21	SLU	0.35	0.25	905.86	2.50	6634.02	16455.30	6634.02	0.30	0.30	2783.24	2.50	7955.54	16914.20	7955.54	2.858	
20.81	21.26	ø6/15	2	21	SLU	0.35	0.25	905.86	2.50	6634.02	16455.30	6634.02	0.30	0.30	2783.25	2.50	7955.54	16914.20	7955.54	2.858	
21.50	22.35	ø6/15	2	21	SLU	0.35	0.25	3.62	2.50	6634.02	16455.30	6634.02	0.30	0.30	734.42	2.50	7955.54	16914.20	7955.54	10.832	
23.00	23.45	ø6/15	2	21	SLU	0.35	0.25	972.16	2.50	6634.02	16171.30	6634.02	0.30	0.30	2635.75	2.50	7955.54	16622.30	7955.54	3.018	
23.45	23.81	ø6/15	2	21	SLU	0.35	0.25	972.16	2.50	6634.02	16151.30	6634.02	0.30	0.30	2635.75	2.50	7955.54	16601.80	7955.54	3.018	
23.81	24.26	ø6/15	2	21	SLU	0.35	0.25	972.16	2.50	6634.02	16135.40	6634.02	0.30	0.30	2635.75	2.50	7955.54	16585.40	7955.54	3.018	
24.50	25.35	ø6/15	2	21	SLU	0.35	0.25	37.08	2.50	6634.02	14998.40	6634.02	0.30	0.30	389.24	2.50	7955.54	15416.70	7955.54	20.439	
26.00	26.45	ø6/15	2	21	SLU	0.35	0.25	1981.44	2.50	6634.02	14146.90	6634.02	0.30	0.30	2322.99	2.50	7955.54	14541.40	7955.54	3.348	
26.45	26.81	ø6/15	2	21	SLU	0.35	0.25	1981.45	2.50	6634.02	14127.00	6634.02	0.30	0.30	2322.99	2.50	7955.54	14520.90	7955.54	3.348	
26.81	27.26	ø6/15	2	21	SLU	0.35	0.25	1981.45	2.50	6634.02	14111.00	6634.02	0.30	0.30	2322.99	2.50	7955.54	14504.60	7955.54	3.348	



## Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-130465.00	850.89	2609.29	-481.34	-2609.29	-333837.00	13232.40	-13187.90	303.75	2.07	2.559
0.00	1(e)	SLU	1	1	0.00	-130465.00	850.89	2609.29	-481.34	-2609.29	-333837.00	13232.40	-13187.90	303.75	2.07	2.559
3.26	1(e)	SLU	1	1	326.00	-128346.00	298.83	2566.91	280.01	2566.91	-333837.00	13223.70	13174.80	56.25	2.11	2.601
3.50	1(e)	SLU	2	10	0.00	-114721.00	169.87	2294.42	264.20	2294.42	-246925.00	8214.43	8278.16	37.97	1.48	2.152
3.50	1(e)	SLU	2	10	0.00	-114721.00	169.87	2294.42	264.20	2294.42	-235893.00	7641.17	7759.02	40.78	1.39	2.056
6.26	1(e)	SLU	2	10	276.00	-113465.00	145.85	2269.31	-142.23	-2269.31	-235893.00	7666.28	-7779.40	319.22	1.42	2.079
6.50	1(e)	SLU	3	10	0.00	-100082.00	47.53	2001.64	-199.02	-2001.64	-235893.00	7864.80	-7953.32	319.22	1.72	2.357
6.50	1(e)	SLU	3	10	0.00	-100082.00	47.53	2001.64	-199.02	-2001.64	-235893.00	7864.80	-7953.32	319.22	1.72	2.357
9.26	1(e)	SLU	3	10	276.00	-98826.30	65.53	1976.53	127.83	1976.53	-235893.00	7874.96	7959.66	40.78	1.75	2.387
9.50	1(e)	SLU	4	10	0.00	-85625.40	-46.79	-1712.51	-218.13	-1712.51	-235893.00	-7848.82	-7868.15	220.78	2.10	2.755
9.50	1(e)	SLU	4	10	0.00	-85625.40	-46.79	-1712.51	-218.13	-1712.51	-235893.00	-7848.82	-7868.15	220.78	2.10	2.755
12.26	1(e)	SLU	4	10	276.00	-84369.60	37.90	1687.39	219.17	1687.39	-235893.00	7840.83	7853.23	40.78	2.14	2.796
12.50	1(e)	SLU	5	10	0.00	-71324.20	-72.66	-1426.48	-291.34	-1426.48	-235893.00	-7712.70	-7648.70	220.78	2.54	3.307
12.50	1(e)	SLU	5	10	0.00	-71324.20	-72.66	-1426.48	-291.34	-1426.48	-235893.00	-7712.70	-7648.70	220.78	2.54	3.307
15.26	1(e)	SLU	5	10	276.00	-70068.40	67.82	1401.37	271.70	1401.37	-235893.00	7695.40	7623.54	40.78	2.58	3.367
15.50	1(e)	SLU	6	7	0.00	-56799.30	-54.72	-1135.99	-316.36	-1135.99	-185194.00	-5407.88	-5238.04	236.25	2.29	3.260
15.50	1(e)	SLU	6	7	0.00	-56799.30	-54.72	-1135.99	-316.36	-1135.99	-174161.00	-4917.19	-4962.85	233.44	2.25	3.066
18.26	1(e)	SLU	6	7	276.00	-55857.40	193.30	1117.15	308.90	1117.15	-174161.00	4905.07	4943.47	53.44	2.29	3.118
18.50	1(e)	SLU	7	7	0.00	-42380.20	52.54	847.61	-345.02	-847.61	-174161.00	4682.60	-4599.80	306.56	2.98	4.109
18.50	1(e)	SLU	7	7	0.00	-42380.20	52.54	847.61	-345.02	-847.61	-174161.00	4682.60	-4599.80	306.56	2.98	4.109
21.26	1(e)	SLU	7	7	276.00	-41438.40	295.23	828.77	340.24	828.77	-174161.00	4662.53	4570.88	53.44	3.03	4.203
21.50	1(e)	SLU	8	7	0.00	-28091.00	199.65	561.82	-417.58	-561.82	-174161.00	4145.26	-4218.54	305.16	3.95	6.200
21.50	1(e)	SLU	8	7	0.00	-28091.00	199.65	561.82	-417.58	-561.82	-174161.00	4145.26	-4218.54	305.16	3.95	6.200
24.26	1(e)	SLU	8	7	276.00	-27149.20	326.93	542.98	448.82	542.98	-174161.00	4114.53	4182.19	54.84	4.03	6.415
24.50	1(e)	SLU	9	7	0.00	-13964.00	237.24	279.28	-223.75	-279.28	-174161.00	3590.84	-3624.93	303.75	5.37	12.472
24.50	1(e)	SLU	9	7	0.00	-13964.00	237.24	279.28	-223.75	-279.28	-174161.00	3590.84	-3624.93	303.75	5.37	12.472
27.26	1(e)	SLU	9	7	276.00	-13022.20	-233.00	-260.44	217.20	260.44	-174161.00	-3577.88	3548.55	123.75	5.50	13.374

## Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
0.00	2	SLE	R	1	1	0.00	-91940.50	-337.42	633.74	0.00	12.31	698.16
0.00	4	SLE	Q	1	1	0.00	-80907.00	-271.87	559.07	0.00	12.31	612.53
0.00	2	SLE	R	1	1	0.00	-91940.50	-337.42	633.74	0.00	12.31	698.16
0.00	4	SLE	Q	1	1	0.00	-80907.00	-271.87	559.07	0.00	12.31	612.53
3.26	2	SLE	R	1	1	326.00	-90310.50	196.77	218.83	0.00	12.31	649.35
3.26	4	SLE	Q	1	1	326.00	-79277.00	146.60	195.46	0.00	12.31	568.22
3.50	2	SLE	R	2	10	0.00	-80780.70	181.83	131.02	0.00	12.31	799.03
3.50	4	SLE	Q	2	10	0.00	-70914.70	177.93	104.27	0.00	12.31	702.11
3.50	2	SLE	R	2	10	0.00	-80780.70	181.83	131.02	0.00	9.24	822.98
3.50	4	SLE	Q	2	10	0.00	-70914.70	177.93	104.27	0.00	9.24	723.24
6.26	2	SLE	R	2	10	276.00	-79814.70	-96.81	108.91	0.00	9.24	801.57
6.26	4	SLE	Q	2	10	276.00	-69948.70	-114.81	114.43	0.00	9.24	708.02
6.50	2	SLE	R	3	10	0.00	-70460.20	-144.84	43.30	0.00	9.24	708.04
6.50	4	SLE	Q	3	10	0.00	-61744.50	-82.05	29.17	0.00	9.24	614.47
6.50	2	SLE	R	3	10	0.00	-70460.20	-144.84	43.30	0.00	9.24	708.04
6.50	4	SLE	Q	3	10	0.00	-61744.50	-82.05	29.17	0.00	9.24	614.47
9.26	2	SLE	R	3	10	276.00	-69494.20	94.59	48.27	0.00	9.24	693.64
9.26	4	SLE	Q	3	10	276.00	-60778.50	33.66	56.89	0.00	9.24	602.92
9.50	2	SLE	R	4	10	0.00	-60270.40	-159.17	-27.77	0.00	9.24	608.47
9.50	4	SLE	Q	4	10	0.00	-52686.80	-79.55	-36.02	0.00	9.24	526.68
9.50	2	SLE	R	4	10	0.00	-60270.40	-159.17	-27.77	0.00	9.24	608.47
9.50	4	SLE	Q	4	10	0.00	-52686.80	-79.55	-36.02	0.00	9.24	526.68
12.26	2	SLE	R	4	10	276.00	-59304.40	159.60	26.90	0.00	9.24	599.00
12.26	4	SLE	Q	4	10	276.00	-51720.80	76.95	37.52	0.00	9.24	517.15
12.50	2	SLE	R	5	10	0.00	-50191.90	-212.00	-47.76	0.00	9.24	518.39
12.50	4	SLE	Q	5	10	0.00	-43724.30	-110.56	-53.79	0.00	9.24	444.81
12.50	2	SLE	R	5	10	0.00	-50191.90	-212.00	-47.76	0.00	9.24	518.39
12.50	4	SLE	Q	5	10	0.00	-43724.30	-110.56	-53.79	0.00	9.24	444.81
15.26	2	SLE	R	5	10	276.00	-49225.90	197.96	48.20	0.00	9.24	507.47
15.26	4	SLE	Q	5	10	276.00	-42758.30	92.47	57.51	0.00	9.24	433.82
15.50	2	SLE	R	6	7	0.00	-39956.70	-228.51	-34.07	0.00	9.24	549.51
15.50	4	SLE	Q	6	7	0.00	-34624.10	-146.25	-41.45	0.00	9.24	468.84
15.50	2	SLE	R	6	7	0.00	-39956.70	-228.51	-34.07	0.00	6.16	570.21
15.50	4	SLE	Q	6	7	0.00	-34624.10	-146.25	-41.45	0.00	6.16	486.89
18.26	2	SLE	R	6	7	276.00	-39232.20	223.38	138.84	0.00	6.16	576.34
18.26	4	SLE	Q	6	7	276.00	-33899.60	135.08	136.65	0.00	6.16	490.44
18.50	2	SLE	R	7	7	0.00	-29819.80	-250.26	44.83	0.00	6.16	442.63
18.50	4	SLE	Q	7	7	0.00	-25643.70	-149.03	23.69	0.00	6.16	366.66
18.50	2	SLE	R	7	7	0.00	-29819.80	-250.26	44.83	0.00	6.16	442.63
18.50	4	SLE	Q	7	7	0.00	-25643.70	-149.03	23.69	0.00	6.16	366.66
21.26	2	SLE	R	7	7	276.00	-29095.30	246.57	213.41	0.00	6.16	459.08
21.26	4	SLE	Q	7	7	276.00	-24919.20	147.90	197.42	0.00	6.16	384.38
21.50	2	SLE	R	8	7	0.00	-19774.50	-301.43	151.57	0.00	6.16	336.57
21.50	4	SLE	Q	8	7	0.00	-16741.00	-184.82	114.05	0.00	6.16	270.32
21.50	2	SLE	R	8	7	0.00	-19774.50	-301.43	151.57	0.00	6.16	336.57
21.50	4	SLE	Q	8	7	0.00	-16741.00	-184.82	114.05	0.00	6.16	270.32
24.26	2	SLE	R	8	7	276.00	-19050.00	323.60	234.04	0.00	6.16	343.98
24.26	4	SLE	Q	8	7	276.00	-16016.50	203.57	210.28	0.00	6.16	279.29
24.50	2	SLE	R	9	7	0.00	-9843.32	-162.26	178.49	0.00	6.16	185.96
24.50	4	SLE	Q	9	7	0.00	-7921.82	-64.31	124.01	0.00	6.16	134.90
24.50	2	SLE	R	9	7	0.00	-9843.32	-162.26	178.49	0.00	6.16	185.96



Relazione di calcolo

24.50	4	SLE Q	9	7	0.00	-7921.82	-64.31	124.01	0.00	6.16	9.79	134.90
27.26	2	SLE R	9	7	276.00	-9118.82	157.80	-167.31	0.00	6.16	13.04	173.89
27.26	4	SLE Q	9	7	276.00	-7197.32	58.48	-143.76	0.00	6.16	9.34	127.48

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <m>	d <sub>y</sub> <m>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <m>	d <sub>z</sub> <m>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	233.54	2.50	12369.40	21334.90	12369.40	0.40	0.45	169.34	2.50	15893.50	21930.60	15893.50	52.964	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	233.54	2.50	12369.40	21455.10	12369.40	0.40	0.45	169.34	2.50	15893.50	22054.20	15893.50	52.964	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	233.54	2.50	12369.40	21936.00	12369.40	0.40	0.45	169.34	2.50	15893.50	22548.50	15893.50	52.964	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	147.26	2.11	7825.54	7825.54	7825.54	0.40	0.30	8.70	2.29	7274.26	7274.26	7274.26	53.142	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	147.26	2.12	7874.38	7874.38	7874.38	0.40	0.30	8.70	2.30	7318.42	7318.42	7318.42	53.474	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	147.26	2.17	8066.77	8066.77	8066.77	0.40	0.30	8.70	2.35	7492.45	7492.45	7492.45	54.780	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	118.42	2.50	9277.05	11953.50	9277.05	0.40	0.30	6.52	2.50	7955.54	11715.10	7955.54	78.338	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	118.42	2.50	9277.05	12024.80	9277.05	0.40	0.30	6.52	2.50	7955.54	11785.00	7955.54	78.338	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	118.42	2.50	9277.05	12309.80	9277.05	0.40	0.30	6.52	2.50	7955.54	12064.30	7955.54	78.338	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	158.44	2.50	9277.05	16874.70	9277.05	0.40	0.30	30.69	2.50	7955.54	16538.20	7955.54	58.552	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	158.44	2.50	9277.05	16946.00	9277.05	0.40	0.30	30.69	2.50	7955.54	16608.00	7955.54	58.552	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	158.44	2.50	9277.05	17231.00	9277.05	0.40	0.30	30.69	2.50	7955.54	16887.30	7955.54	58.552	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	204.00	2.50	9277.05	21743.00	9277.05	0.40	0.30	50.90	2.50	7955.54	21309.30	7955.54	45.475	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	204.00	2.50	9277.05	21814.20	9277.05	0.40	0.30	50.90	2.50	7955.54	21379.20	7955.54	45.475	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	204.00	2.50	9277.05	22099.20	9277.05	0.40	0.30	50.90	2.50	7955.54	21658.50	7955.54	45.475	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	226.54	2.50	6634.02	14475.30	6634.02	0.30	0.30	89.86	2.50	7955.54	14879.00	7955.54	29.283	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	226.54	2.50	6634.02	14526.30	6634.02	0.30	0.30	89.86	2.50	7955.54	14931.40	7955.54	29.283	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	226.54	2.50	6634.02	14730.10	6634.02	0.30	0.30	89.86	2.50	7955.54	15140.90	7955.54	29.283	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	248.28	2.50	6634.02	16455.30	6634.02	0.30	0.30	87.93	2.50	7955.54	16914.20	7955.54	26.720	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	248.28	2.50	6634.02	16455.30	6634.02	0.30	0.30	87.93	2.50	7955.54	16914.20	7955.54	26.720	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	248.28	2.50	6634.02	16455.30	6634.02	0.30	0.30	87.93	2.50	7955.54	16914.20	7955.54	26.720	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	313.92	2.50	6634.02	16455.30	6634.02	0.30	0.30	46.12	2.50	7955.54	16914.20	7955.54	21.133	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	313.92	2.50	6634.02	16455.30	6634.02	0.30	0.30	46.12	2.50	7955.54	16914.20	7955.54	21.133	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	313.92	2.50	6634.02	16455.30	6634.02	0.30	0.30	46.12	2.50	7955.54	16914.20	7955.54	21.133	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	159.76	2.50	6634.02	14977.20	6634.02	0.30	0.30	170.38	2.50	7955.54	15394.90	7955.54	41.524	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	159.76	2.50	6634.02	14956.80	6634.02	0.30	0.30	170.38	2.50	7955.54	15373.90	7955.54	41.524	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	159.76	2.50	6634.02	14875.30	6634.02	0.30	0.30	170.38	2.50	7955.54	15290.10	7955.54	41.524	

Pilastrata n. 54

Nodi: 54 354 554 754 954 1154 1354 1554 1754 1954

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
1R		40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7R		30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε <sub>r</sub>	Sic.
0.00	1(e)	SLU	1	1	0.00	-107253.00	-1188.59	-2145.06	-1243.42	-2145.06	-333837.00	-13092.90	-12904.50	236.25	2.56	3.113
0.00	1(e)	SLU	1	1	0.00	-107253.00	-1188.59	-2145.06	-1243.42	-2145.06	-333837.00	-13092.90	-12904.50	236.25	2.56	3.113
3.26	1(e)	SLU	1	1	326.00	-105134.00	2523.01	2523.01	1935.84	2102.68	-333837.00	14127.10	12087.40	53.44	2.60	3.175
3.50	1(e)	SLU	2	10	0.00	-93937.70	-1254.51	-1878.75	-1733.31	-1878.75	-246925.00	-8407.09	-8446.76	217.97	1.94	2.629
3.50	1(e)	SLU	2	10	0.00	-93937.70	-1254.51	-1878.75	-1733.31	-1878.75	-235893.00	-7878.26	-7940.54	220.78	1.87	2.511
6.26	1(e)	SLU	2	10	276.00	-92681.90	1911.17	1911.17	1710.19	1853.64	-235893.00	8138.87	7646.40	39.38	1.91	2.545
6.50	1(e)	SLU	3	10	0.00	-81530.70	-1467.38	-1630.61	-2065.02	-2065.02	-235893.00	-7022.78	-8637.85	225.00	2.23	2.893
6.50	1(e)	SLU	3	10	0.00	-81530.70	-1467.38	-1630.61	-2065.02	-2065.02	-235893.00	-7022.78	-8637.85	225.00	2.23	2.893
9.26	1	SLU	3	10	276.00	-80274.90	1651.38	1651.38	1947.61	1947.61	-235893.00	7280.18	8353.26	43.59	2.26	2.939
9.50	1	SLU	4	10	0.00	-68950.20	-1625.85	-1625.85	-2089.74	-2089.74	-235893.00	-6686.51	-8590.75	226.41	2.63	3.421
9.50	1	SLU	4	10	0.00	-68950.20	-1625.85	-1625.85	-2089.74	-2089.74	-235893.00	-6686.51	-8590.75	226.41	2.63	3.421
12.26	1	SLU	4	10	276.00	-67694.40	1600.62	1600.62	1994.16	1994.16	-235893.00	6676.49	8551.69	46.41	2.68	3.485
12.50	1	SLU	5	10	0.00	-56219.10	-1691.92	-1691.92	-2262.88	-2262.88	-56219.10	-6335.97	-8375.51	227.81	3.11	3.717
12.50	1	SLU	5	10	0.00	-56219.10	-1691.92	-1691.92	-2262.88	-2262.88	-56219.10	-6335.97	-8375.51	227.81	3.11	3.717
15.26	1	SLU	5	10	276.00	-54963.30	1772.59	1772.59	2337.00	2337.00	-54963.30	6322.70	8325.98	47.81	3.17	3.564
15.50	1	SLU	6	7	0.00	-43578.00	-1447.62	-1447.62	-1573.99	-1573.99	-43578.00	-4933.05	-5210.12	239.06	2.88	3.365
15.50	1	SLU	6	7	0.00	-43578.00	-1447.62	-1447.62	-1573.99	-1573.99	-43578.00	-4354.64	-4897.85	236.25	2.93	3.055
18.26	1	SLU	6	7	276.00	-42636.10	1780.60	1780.60	1741.67	1741.67	-42636.10	4687.96	4607.46	53.44	2.96	2.639
18.50	1	SLU	7	7	0.00	-31451.20	-1141.24	-1141.24	-2005.80	-2005.80	-31451.20	-3064.24	-5201.26	244.69	3.88	2.616
18.50	1	SLU	7	7	0.00	-31451.20	-1141.24	-1141.24	-2005.80	-2005.80	-31451.20	-3064.24	-5201.26	244.69	3.88	2.616
21.26	1	SLU	7	7	276.00	-30509.40	1755.55	1755.55	1925.85	1925.85	-30509.40	4069.15	4423.78	56.25	3.78	2.307
21.50	1	SLU	8	7	0.00	-19373.60	-632.76	-632.76	-1944.59	-1944.59	-19373.60	-1523.94	-4719.23	260.16	7.33	2.425
21.50	1	SLU	8	7	0.00	-19373.60	-632.76	-632.76	-1944.59	-1944.59	-19373.60	-1523.94	-4719.23	260.16	7.33	2.425
24.26	1	SLU	8	7	276.00	-18431.80	1762.82	1762.82	1832.37	1832.37	-18431.80	3678.22	3937.66	56.25	4.81	2.119
24.50	1	SLU	9	7	0.00	-7482.20	364.23	364.23	-2211.96	-2211.96	-7482.20	603.04	-3557.03	272.81	13.54	1.609
24.50	1	SLU	9	7	0.00	-7482.20	364.23	364.23	-2211.96	-2211.96	-7482.20	603.04	-3557.03	272.81	13.54	1.609
27.26	1	SLU	9	7	276.00	-6540.35	-1135.77	-1135.77	2707.52	2707.52	-6540.35	-1389.75	3405.29	97.73	10.99	1.253



Relazione di calcolo

6.50	2	SLE R	3	10	0.00	-57149.50	-1450.90	-968.11	0.00	9.24	61.27	830.74
6.50	4	SLE Q	3	10	0.00	-52365.10	-1245.78	-992.73	0.00	9.24	56.45	764.24
6.50	2	SLE R	3	10	0.00	-57149.50	-1450.90	-968.11	0.00	9.24	61.27	830.74
6.50	4	SLE Q	3	10	0.00	-52365.10	-1245.78	-992.73	0.00	9.24	56.45	764.24
9.26	2	SLE R	3	10	276.00	-56183.50	1368.37	1116.96	0.00	9.24	61.42	829.53
9.26	4	SLE Q	3	10	276.00	-51399.10	1170.97	1123.61	0.00	9.24	56.48	761.80
9.50	2	SLE R	4	10	0.00	-48331.80	-1469.49	-1089.59	0.00	9.24	56.99	760.99
9.50	4	SLE Q	4	10	0.00	-44193.80	-1253.39	-1098.05	0.00	9.24	52.32	697.70
9.50	2	SLE R	4	10	0.00	-48331.80	-1469.49	-1089.59	0.00	9.24	56.99	760.99
9.50	4	SLE Q	4	10	0.00	-44193.80	-1253.39	-1098.05	0.00	9.24	52.32	697.70
12.26	2	SLE R	4	10	276.00	-47365.80	1402.42	1079.16	0.00	9.24	55.61	742.93
12.26	4	SLE Q	4	10	276.00	-43227.80	1192.12	1085.70	0.00	9.24	50.98	680.06
12.50	2	SLE R	5	10	0.00	-39407.50	-1592.34	-1135.11	0.00	9.24	52.86	692.94
12.50	4	SLE Q	5	10	0.00	-35941.20	-1352.83	-1140.86	0.00	9.24	48.37	633.30
12.50	2	SLE R	5	10	0.00	-39407.50	-1592.34	-1135.11	0.00	9.24	52.86	692.94
12.50	4	SLE Q	5	10	0.00	-35941.20	-1352.83	-1140.86	0.00	9.24	48.37	633.30
15.26	2	SLE R	5	10	276.00	-38441.50	1643.80	1196.35	0.00	9.24	53.40	696.68
15.26	4	SLE Q	5	10	276.00	-34975.20	1394.64	1199.04	0.00	9.24	48.79	635.63
15.50	2	SLE R	6	7	0.00	-30546.40	-1109.04	-966.48	0.00	9.24	57.59	725.56
15.50	4	SLE Q	6	7	0.00	-27746.10	-938.86	-974.42	0.00	9.24	52.45	661.41
15.50	2	SLE R	6	7	0.00	-30546.40	-1109.04	-966.48	0.00	6.16	59.42	749.95
15.50	4	SLE Q	6	7	0.00	-27746.10	-938.86	-974.42	0.00	6.16	54.20	684.51
18.26	2	SLE R	6	7	276.00	-29821.90	1226.61	1210.86	1.54	4.62	65.02	806.90
18.26	4	SLE Q	6	7	276.00	-27021.60	1038.02	1192.46	1.54	4.62	59.05	733.44
18.50	2	SLE R	7	7	0.00	-22070.70	-1413.25	-734.77	1.54	4.62	56.56	680.72
18.50	4	SLE Q	7	7	0.00	-19922.00	-1193.42	-786.02	1.54	4.62	51.40	619.35
18.50	2	SLE R	7	7	0.00	-22070.70	-1413.25	-734.77	1.54	4.62	56.56	680.72
18.50	4	SLE Q	7	7	0.00	-19922.00	-1193.42	-786.02	1.54	4.62	51.40	619.35
21.26	2	SLE R	7	7	276.00	-21346.20	1356.94	1193.29	1.54	4.62	64.64	762.12
21.26	4	SLE Q	7	7	276.00	-19197.50	1142.75	1169.51	1.54	4.62	58.15	686.70
21.50	2	SLE R	8	7	0.00	-13634.60	-1370.25	-358.01	3.08	3.08	48.37	540.09
21.50	4	SLE Q	8	7	0.00	-12137.00	-1157.67	-473.55	3.08	3.08	44.50	500.12
21.50	2	SLE R	8	7	0.00	-13634.60	-1370.25	-358.01	3.08	3.08	48.37	540.09
21.50	4	SLE Q	8	7	0.00	-12137.00	-1157.67	-473.55	3.08	3.08	44.50	500.12
24.26	2	SLE R	8	7	276.00	-12910.10	1291.42	1178.92	3.08	3.08	68.17	736.07
24.26	4	SLE Q	8	7	276.00	-11412.50	1101.20	1171.30	3.08	3.08	62.66	674.97
24.50	2	SLE R	9	7	0.00	-5336.52	-1557.45	341.47	3.08	3.08	63.97	1514.37
24.50	4	SLE Q	9	7	0.00	-4482.43	-1273.98	142.26	3.08	3.08	47.40	1159.09
24.50	2	SLE R	9	7	0.00	-5336.52	-1557.45	341.47	3.08	3.08	63.97	1514.37
24.50	4	SLE Q	9	7	0.00	-4482.43	-1273.98	142.26	3.08	3.08	47.40	1159.09
27.26	2	SLE R	9	7	276.00	-4612.02	1908.37	-843.82	3.08	3.08	95.65	2384.64
27.26	4	SLE Q	9	7	276.00	-3757.93	1511.51	-671.35	3.08	3.08	75.75	1873.17

Stato limite d'esercizio - Verifiche a fessurazione

Xg <mm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
24.26	4	SLE Q	8	7	276.00	-11412.50	1171.30	1101.20	39.00	0.00	0.50	14.00	129.66	1.54	56.80	647.42	0.19	0.04
24.26	3	SLE F	8	7	276.00	-11812.40	1173.31	1156.14	39.00	0.00	0.50	14.00	129.55	1.54	56.68	659.52	0.19	0.04
24.50	4	SLE Q	9	7	0.00	-4482.43	142.26	-1273.98	39.00	258.00	0.50	14.00	176.00	3.08	215.53	1159.09	0.34	0.10
24.50	3	SLE F	9	7	0.00	-4700.48	199.33	-1351.17	39.00	258.00	0.50	14.00	172.46	3.08	207.73	1258.64	0.37	0.11
24.50	4	SLE Q	9	7	0.00	-4482.43	142.26	-1273.98	39.00	258.00	0.50	14.00	176.00	3.08	215.53	1159.09	0.34	0.10
24.50	3	SLE F	9	7	0.00	-4700.48	199.33	-1351.17	39.00	258.00	0.50	14.00	172.46	3.08	207.73	1258.64	0.37	0.11
27.26	4	SLE Q	9	7	276.00	-3757.93	-671.35	1511.51	39.00	258.00	0.50	14.00	217.92	1.54	153.85	1873.17	0.57	0.21
27.26	3	SLE F	9	7	276.00	-3975.98	-720.98	1616.12	39.00	258.00	0.50	14.00	217.83	1.54	153.75	2011.55	0.59	0.22

Stato limite ultimo - Verifiche a taglio

X0 <mm>	X1 <mm>	Staff.	Br <sub>y</sub>	Br <sub>z</sub>	CC	TCC	bw <sub>y</sub> <mm>	d <sub>y</sub> <mm>	Vsdu <sub>y</sub> <daN>	ctgθ <sub>y</sub>	VRsd <sub>y</sub> <daN>	VRcd <sub>y</sub> <daN>	Vrd <sub>y</sub> <daN>	bw <sub>z</sub> <mm>	d <sub>z</sub> <mm>	Vsdu <sub>z</sub> <daN>	ctgθ <sub>z</sub>	VRsd <sub>z</sub> <daN>	VRcd <sub>z</sub> <daN>	Vrd <sub>z</sub> <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	975.23	2.50	12369.40	29236.40	12369.40	0.40	0.45	1138.53	2.50	15893.50	30052.70	15893.50	12.684	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	975.23	2.50	12369.40	29356.60	12369.40	0.40	0.45	1138.53	2.50	15893.50	30176.20	15893.50	12.684	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	975.23	2.50	12369.40	29837.50	12369.40	0.40	0.45	1138.53	2.50	15893.50	30670.50	15893.50	12.684	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	1247.64	2.50	9277.05	14045.10	9277.05	0.40	0.30	1146.98	2.50	7955.54	13765.00	7955.54	6.936	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	1247.64	2.50	9277.05	14116.40	9277.05	0.40	0.30	1146.98	2.50	7955.54	13834.90	7955.54	6.936	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	1247.64	2.50	9277.05	14401.40	9277.05	0.40	0.30	1146.98	2.50	7955.54	14114.20	7955.54	6.936	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	1453.85	2.50	9277.05	18268.60	9277.05	0.40	0.30	1129.98	2.50	7955.54	17904.30	7955.54	6.381	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	1453.85	2.50	9277.05	18339.80	9277.05	0.40	0.30	1129.98	2.50	7955.54	17974.10	7955.54	6.381	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	1453.85	2.50	9277.05	18624.80	9277.05	0.40	0.30	1129.98	2.50	7955.54	18253.40	7955.54	6.381	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	1479.68	2.50	9277.05	22551.10	9277.05	0.40	0.30	1169.01	2.50	7955.54	22101.40	7955.54	6.270	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	1479.68	2.50	9277.05	22622.40	9277.05	0.40	0.30	1169.01	2.50	7955.54	22171.20	7955.54	6.270	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	1479.68	2.50	9277.05	22907.40	9277.05	0.40	0.30	1169.01	2.50	7955.54	22450.50	7955.54	6.270	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	1666.62	2.50	9277.05	23011.20	9277.05	0.40	0.30	1255.26	2.50	7955.54	22552.30	7955.54	5.566	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	1666.62	2.50	9277.05	23011.20	9277.05	0.40	0.30	1255.26	2.50	7955.54	22552.30	7955.54	5.566	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	1666.62	2.50	9277.05	23011.20	9277.05	0.40	0.30	1255.26	2.50	7955.54	22552.30	7955.54	5.566	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	1201.33	2.50	6634.02	16455.30	6634.02	0.30	0.30	1169.65	2.50	7955.54	16914.20	7955.54	5.522	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	1201.33	2.50	6634.02	16455.30	6634.02	0.30	0.30	1169.65	2.50	7955.54	16914.20	7955.54	5.522	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	1201.33	2.50	6634.02	16455.30	6634.02	0.30	0.30	1169.65	2.50	7955.54	16914.20	7955.54	5.522	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	1424.51	2.50	6634.02	16455.30	6634.02	0.30	0.30	1049.56	2.50	7955.54	16914.20	7955.54	4.657	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	1424.51	2.50	6634.02	16455.30	6634.02	0.30	0.30	1049.56	2.50	7955.54	16914.20	7955.54	4.657	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	1424.51	2.50	6634.02	16455.30	6634.02	0.30	0.30	1049.56	2.50	7955.54	16914.20	7955.54	4.657	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	1368.46	2.50	6634.02	15679.50	6634.02	0.30	0.30	867.96	2.50	7955.54	16116.80	7955.54	4.848	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	1368.46	2.50	6634.02	15659.10	6634.02	0.30	0.30	867.96	2.50	7955.54	16095.80	7955.54	4.848	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	1368.46	2.50	6634.02	15577.60	6634.02	0.30	0.30	867.97	2.50	7955.54	16012.00	7955.54	4.848	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	1782.42	2.50	6634.02	14135.60	6634.02	0.30	0.30	543.48	2.50	7955.54	14529.90	7955.54	3.722	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	1782.42	2.50	6634.02	14115.30	6634.02	0.30	0.30	543.48	2.50	7955.54	14508.90	7955.54	3.722	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	1782.42	2.50	6634.02	14033.70	6634.02	0.30	0.30	543.48	2.50	7955.54	14425.10	7955.54	3.722	



## Verifiche e armature nuclei

### Simbologia

$\Delta_{sm}$	= Distanza media tra le fessure
$\Phi_{eq}$	= Diametro equivalente delle barre
$\epsilon_{sm}$	= Deformazione unitaria media dell'armatura (*1000)
$\sigma_c$	= Tensione nel calcestruzzo
$\sigma_f$	= Tensione nel ferro
$\sigma_s$	= Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$	= Area di calcestruzzo efficace
$A_s$	= Area complessiva dei ferri nell'area di calcestruzzo efficace
CC	= Numero della combinazione delle condizioni di carico elementari
Cf	= Copriferro
Fcd	= Resistenza di calcolo a compressione del calcestruzzo
Fcd (Tag)	= Resistenza di calcolo a compressione del calcestruzzo per verifica a taglio
Fcm	= Resistenza media
Fctd	= Resistenza di calcolo a trazione del calcestruzzo
Fctm	= Resistenza media a trazione
Fyd	= Resistenza di calcolo dell'acciaio
Fyd (Tag)	= Resistenza di calcolo dell'acciaio per verifica a taglio
Fym	= Tensione media di snervamento
$K_2$	= Coefficiente per distribuzione deformazioni
Liv.	= Numero del livello
M'yd <sub>y,r</sub>	= Momento resistente massimo in campo sostanzialmente elastico (ridotto del 30%) intorno all'asse Y
M'yd <sub>z,r</sub>	= Momento resistente massimo in campo sostanzialmente elastico (ridotto del 30%) intorno all'asse Z
MRd <sub>y,r</sub>	= Momento resistente allo stato limite ultimo (ridotto del 30%) intorno all'asse Y
MRd <sub>z,r</sub>	= Momento resistente allo stato limite ultimo (ridotto del 30%) intorno all'asse Z
My	= Momento flettente intorno all'asse Y
Mz	= Momento flettente intorno all'asse Z
N	= Sforzo normale
Nu	= Sforzo normale ultimo
Par.	= Parete
Pos.	= Posizione (P=Piede, T=Testa)
Sic.	= Sicurezza
Spess.	= Spessore
TCC	= Tipo di combinazione di carico
	SLU = Stato limite ultimo
	SLE R = Stato limite d'esercizio, combinazione rara
	SLE F = Stato limite d'esercizio, combinazione frequente
	SLE Q = Stato limite d'esercizio, combinazione quasi permanente
VRcd	= Taglio ultimo lato calcestruzzo
VRsd	= Taglio ultimo lato armatura
Vsdu	= Taglio agente nella direzione del momento ultimo
Wk	= Ampiezza caratteristica delle fessure
c	= Ricoprimento dell'armatura
ctg $\theta$	= Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s	= Distanza massima tra le barre

### Numero del nucleo n. 304

Nodi: -15 -22 -29 -36

### Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

### Stato limite ultimo - Verifiche a flessione/presoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRd <sub>y,r</sub>	MRd <sub>z,r</sub>	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	1	SLU	-122231.00	-755.01	0.00	-429422.00	-5528.82	0.00	3.513
2	P	1	SLU	-123848.00	764.23	0.00	-429421.00	5555.76	0.00	3.467
3	P	1	SLU	-124934.00	-484.49	0.00	-429421.00	-5573.91	0.00	3.437
4	P	1	SLU	-123432.00	1207.92	0.00	-429421.00	5548.85	0.00	3.479
5	P	1	SLU	-111953.00	1595.75	0.00	-111953.00	5356.46	0.00	3.357
6	P	1	SLU	-109591.00	-618.28	0.00	-429421.00	-5311.29	0.00	3.918
7	P	1	SLU	-110011.00	462.48	0.00	-429421.00	5319.27	0.00	3.903

### Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	$\sigma_c$	$\sigma_f$
				<daN>	<daNm>	<daNm>	<daN/cm>	<daN/cm>
1	P	2	SLE R	-88658.20	-547.01	0.00	40.57	543.59
1	P	4	SLE Q	-75259.60	-465.51	0.00	34.46	461.57
2	P	2	SLE R	-89797.00	553.63	0.00	41.08	550.52
2	P	4	SLE Q	-76139.60	471.53	0.00	34.87	467.04
3	P	2	SLE R	-90551.40	-350.19	0.00	38.13	530.43
3	P	2	SLE R	-90551.40	0.00	-2623.98	35.77	534.60
3	P	4	SLE Q	-76693.80	-299.13	0.00	32.34	449.56
4	P	2	SLE R	-89438.20	874.05	0.00	46.03	586.63
4	P	4	SLE Q	-75673.20	750.12	0.00	39.11	497.60
5	P	2	SLE R	-81095.40	1154.33	0.00	47.46	574.87



Relazione di calcolo

5P	4	SLE Q	-68437.50	989.16	0.00	40.29	486.93
6P	2	SLE R	-79343.20	-448.61	0.00	35.66	481.61
6P	2	SLE R	-79343.20	0.00	-5450.26	35.15	523.37
6P	4	SLE Q	-66848.70	-385.36	0.00	30.16	406.65
7P	2	SLE R	-79629.20	0.00	-4521.09	34.13	508.72
7P	4	SLE Q	-67029.50	0.00	-4020.00	28.99	431.96

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1179.06	2.50	17295.40	45035.00	14.669	
2P	1	1078.02	2.50	17295.40	44420.30	16.044	
3P	1	1301.33	2.50	17295.40	44007.10	13.290	
4P	1	249.75	2.50	17295.40	44578.40	69.251	
5P	1	5298.16	2.50	17295.40	45760.00	3.264	
6T	1	6074.19	2.50	17295.40	45760.00	2.847	

Numero del nucleo n. 305

Nodi: 163 164 165 166 167 168

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
50.00	3.70	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-671298.00	5056.13	0.00	-9519900.00	126134.00	2162.70	14.181	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-478884.00	3694.27	0.00	8.00	118.45	
1T	2	SLE R	-420474.00	-3741.84	0.00	7.11	105.16	
1P	4	SLE Q	-424716.00	3329.36	0.00	7.10	105.18	

Definizione Pareti

Liv. 1 Par. 1/1 dal nodo 163 al nodo 166  
Par. 1/2 dal nodo 167 al nodo 168

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	Par.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1T	1/1	1	671.21	2.50	171145.00	795698.00	254.979	
1T	1/2	1	5204.79	2.50	56261.40	263127.00	10.809	

Numero del nucleo n. 307

Nodi: -106 -107 -108

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-131949.00	961.21	0.00	-381658.00	5201.41	0.00	2.892	
2P	1	SLU	-124698.00	-336.16	0.00	-381658.00	-5154.22	0.00	3.061	
3P	1	SLU	-118501.00	313.19	0.00	-381658.00	5069.11	0.00	3.221	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-96372.50	699.01	0.00	51.50	679.10	
1P	4	SLE Q	-81991.40	580.07	0.00	43.56	575.80	
2P	2	SLE R	-91081.60	-242.68	0.00	41.23	585.94	
2T	2	SLE R	-90597.70	247.79	0.00	41.12	583.68	
2P	4	SLE Q	-77490.00	-196.71	0.00	34.90	497.20	
3P	2	SLE R	-86540.40	228.30	0.00	39.13	556.42	



Relazione di calcolo

3	P	4	SLE Q	-73565.00	187.61	0.00	33.15	472.13
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Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	904.65	2.50	15313.10	30977.80	16.927
2	T	1	984.88	2.50	15313.10	33966.80	15.548

Numero del nucleo n. 309

Nodi: -106 -124 -141 -158

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-122835.00	-298.04	0.00	-429421.00	-5538.87	0.00	3.496
2	P	1	SLU	-121888.00	163.78	0.00	-429421.00	5523.02	0.00	3.523
3	P	1	SLU	-119757.00	-292.68	0.00	-429421.00	-5487.50	0.00	3.586

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1	P	2	SLE R	-89055.50	0.00	-10008.90	44.16	655.29
1	P	4	SLE Q	-75152.50	0.00	-8668.89	37.54	556.87
2	P	2	SLE R	-88335.40	0.00	-8365.65	41.91	622.75
2	P	4	SLE Q	-74449.30	0.00	-7282.10	35.61	528.89
3	P	2	SLE R	-86765.00	0.00	-6620.69	39.24	583.85
3	P	4	SLE Q	-73062.30	0.00	-5812.36	33.33	495.78

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	8697.17	2.50	17295.40	44805.30	1.989
2	P	1	8950.79	2.50	17295.40	45165.70	1.932

Numero del nucleo n. 310

Nodi: -108 -126 -143 -160

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-113451.00	172.66	0.00	-429421.00	5382.54	0.00	3.785
2	P	1	SLU	-114006.00	-182.44	0.00	-429421.00	-5391.71	0.00	3.767
3	P	1	SLU	-113786.00	264.20	0.00	-429421.00	5388.08	0.00	3.774

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1	P	2	SLE R	-82230.90	0.00	-9731.38	41.37	613.61
1	P	4	SLE Q	-69484.60	0.00	-8385.39	35.15	521.33
2	P	2	SLE R	-82600.90	0.00	-8179.24	39.63	588.54
2	P	4	SLE Q	-69701.80	0.00	-7083.79	33.66	499.81
3	P	2	SLE R	-82413.00	0.00	-6559.66	37.60	559.29
3	P	4	SLE Q	-69475.20	0.00	-5731.72	31.94	475.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	8136.54	2.50	17295.40	45760.00	2.126
2	P	1	8532.11	2.50	17295.40	45760.00	2.027



Numero del nucleo n. 311

Nodi: -17 -24 -31 -38

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-110883.00	-242.69	0.00	-429422.00	-5336.00	0.00	3.873
2	P	1	SLU	-108117.00	470.81	0.00	-429421.00	5283.04	0.00	3.972
3	P	1	SLU	-105342.00	-500.94	0.00	-429421.00	-5229.93	0.00	4.076
4	P	1	SLU	-105176.00	1148.11	0.00	-429421.00	5226.74	0.00	4.083
5	P	1	SLU	-121998.00	1707.97	0.00	-121998.00	5524.87	0.00	3.235
6	P	1	SLU	-122576.00	-651.22	0.00	-429421.00	-5534.55	0.00	3.503
7	P	1	SLU	-119668.00	859.84	0.00	-429421.00	5486.05	0.00	3.588

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cm²>	σf <daN/cm²>
1	P	2	SLE R	-80421.20	0.00	-2348.93	31.79	475.12
1	P	4	SLE Q	-68283.30	0.00	-1991.18	26.98	403.35
2	P	2	SLE R	-78382.40	341.11	0.00	33.61	463.66
2	P	2	SLE R	-78382.40	0.00	-2343.69	31.05	464.02
2	P	4	SLE Q	-66463.80	290.76	0.00	28.52	393.34
3	P	2	SLE R	-76340.00	-363.66	0.00	33.23	455.31
3	P	4	SLE Q	-64644.40	-308.70	0.00	28.15	385.65
4	P	2	SLE R	-76190.20	832.00	0.00	40.59	510.12
4	P	4	SLE Q	-64452.10	703.62	0.00	34.34	431.50
5	P	2	SLE R	-88385.20	1241.24	0.00	51.46	624.55
5	P	2	SLE R	-88385.20	0.00	-11931.90	46.25	685.20
5	P	4	SLE Q	-74667.80	1053.75	0.00	43.56	528.23
6	P	2	SLE R	-88774.60	0.00	-8795.11	42.59	632.61
6	P	4	SLE Q	-74929.30	0.00	-7590.38	36.15	536.86
7	P	2	SLE R	-86637.70	620.03	0.00	41.00	541.35
7	P	2	SLE R	-86637.70	0.00	-6712.63	39.30	584.76
7	P	4	SLE Q	-73060.90	520.59	0.00	34.54	456.24

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2685.31	2.50	17295.40	45760.00	6.441
2	P	1	2950.32	2.50	17295.40	45760.00	5.862
3	P	1	2685.60	2.50	17295.40	45760.00	6.440
4	P	1	3277.80	2.50	17295.40	45760.00	5.277
5	P	1	9482.76	2.50	17295.40	45123.70	1.824
6	P	1	9999.52	2.50	17295.40	44903.70	1.730

Numero del nucleo n. 312

Nodi: -15 -16 -17

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-113091.00	418.69	0.00	-381658.00	4993.04	0.00	3.375
2	P	1	SLU	-111668.00	-245.35	0.00	-381658.00	-4972.14	0.00	3.418
3	P	1	SLU	-110225.00	133.44	0.00	-381658.00	4948.00	0.00	3.463
4	P	1	SLU	-111188.00	-153.35	0.00	-381658.00	-4964.17	0.00	3.433
5	P	1	SLU	-124539.00	274.60	0.00	-381658.00	5152.45	0.00	3.065
6	P	1	SLU	-120831.00	-73.25	0.00	-381658.00	-5101.94	0.00	3.159
7	P	1	SLU	-115165.00	169.70	0.00	-381658.00	5022.15	0.00	3.314

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cm²>	σf <daN/cm²>
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Relazione di calcolo

1P	2SLE R	-82204.10	299.28	0.00	38.64	539.56
1P	4SLE Q	-69958.70	246.39	0.00	32.73	458.07
2P	2SLE R	-81226.90	-177.37	0.00	36.07	517.32
2P	2SLE R	-81226.90	0.00	-1994.14	35.97	537.46
2P	4SLE Q	-69127.20	-146.25	0.00	30.61	439.63
3P	2SLE R	-80234.60	0.00	-1930.40	35.47	530.03
3P	4SLE Q	-68280.90	0.00	-1632.28	30.17	450.83
4P	2SLE R	-80988.20	0.00	-4951.38	40.41	601.05
4P	4SLE Q	-68918.00	0.00	-4199.18	34.36	511.15
5P	2SLE R	-90714.10	0.00	4507.26	43.67	650.38
5P	4SLE Q	-77141.20	0.00	3830.21	37.13	553.01
6P	2SLE R	-88009.90	0.00	2853.65	40.03	597.58
6P	4SLE Q	-74816.10	0.00	2428.00	34.03	508.05
7P	2SLE R	-83867.80	124.35	0.00	36.19	526.28
7P	2SLE R	-83867.80	0.00	1404.12	36.13	540.53
7P	4SLE Q	-71205.60	104.19	0.00	30.70	446.64

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1759.53	2.50	15313.10	38131.10	8.703	
2P	1	477.40	2.50	15313.10	38671.10	32.076	
3P	1	1767.86	2.50	15313.10	39218.60	8.662	
4P	1	1848.66	2.50	15313.10	38853.00	8.283	
5P	1	273.18	2.50	15313.10	33788.60	56.054	
6P	1	2511.05	2.50	15313.10	35195.20	6.098	

Numero del nucleo n. 313

Nodi: -41 162 -40 -39

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
40.00	3.70	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	T	1	SLU	-99415.70	0.00	147191.00	-99415.70	0.00	139216.00	0.946

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1T	2	SLE R	-71126.30	0.00	105236.00	41.30	1546.41	
1T	4	SLE Q	-59129.80	0.00	87940.10	34.73	1317.91	

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
1T	4	SLE Q	-59129.80	0.00	87940.10	33.00	395.00	0.50	8.00	1744.06	1.01	717.00	1317.91	0.38	1.14	
1T	3	SLE F	-62508.20	0.00	92805.80	33.00	395.00	0.50	8.00	1741.92	1.01	716.12	1381.84	0.40	1.19	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	44503.90	2.50	56261.40	208956.00	1.264

Numero del nucleo n. 314

Nodi: 157 -2 156 -1 154 155 158

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
50.00	3.70	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-946439.00	-11515.60	0.00	-9280890.00	-165649.00	0.00	9.806	

Stato limite d'esercizio - Verifiche tensionali



Relazione di calcolo

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-680948.00	-8513.59	0.00	12.27	180.52
1	T	2	SLE R	-624023.00	0.00	182445.00	11.15	167.07
1	P	4	SLE Q	-596890.00	-7348.00	0.00	10.73	157.97

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	15954.70	2.50	222244.00	1091460.00	13.930

Numero del nucleo n. 315

Nodi: 160 -49 154 -3 -11 163

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
40.00	3.70	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	T	1	SLU	-323067.00	38538.50	0.00	-323067.00	54955.60	0.00	1.426

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	T	2	SLE R	-230657.00	27454.20	0.00	17.06	218.13
1	T	4	SLE Q	-195378.00	23062.90	0.00	14.29	183.10

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm <sup>2</sup> >	A <sub>c eff</sub> <cm <sup>2</sup> >	$\sigma_s$ <daN/cm <sup>2</sup> >	$\epsilon_{sm}$	W <sub>k</sub> <mm>
1	T	4	SLE Q	-195378.00	23062.90	0.00	33.00	394.44	0.50	8.00	363.89	14.07	5240.74	92.82	0.03	0.02
1	T	3	SLE F	-205299.00	24299.00	0.00	33.00	394.44	0.50	8.00	365.64	14.07	5271.65	98.98	0.03	0.02

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	T	1	7954.51	2.50	188237.00	690296.00	23.664

Numero del nucleo n. 316

Nodi: 162 -50 168

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
40.00	3.70	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	T	1	SLU	-157279.00	-21350.10	0.00	-157279.00	-26892.50	0.00	1.260

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	T	2	SLE R	-111927.00	-15152.90	0.00	20.76	256.08
1	T	4	SLE Q	-95047.40	-12684.90	0.00	17.22	213.43

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm <sup>2</sup> >	A <sub>c eff</sub> <cm <sup>2</sup> >	$\sigma_s$ <daN/cm <sup>2</sup> >	$\epsilon_{sm}$	W <sub>k</sub> <mm>
1	T	4	SLE Q	-95047.40	-12684.90	0.00	33.00	392.31	0.50	8.00	432.29	7.04	3222.11	181.83	0.05	0.04
1	T	3	SLE F	-99797.90	-13379.50	0.00	33.00	392.31	0.50	8.00	435.27	7.04	3248.33	195.69	0.06	0.04

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	8098.01	2.50	90444.70	335630.00	11.169



Numero del nucleo n. 317

Nodi: 158 -9 -18 -25 -32 -39

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
50.00	3.70	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	T		1SLU	-162282.00	-30455.20	0.00	-162282.00	-35639.10	0.00	1.170

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σc	σf
				<daN>	<daNm>	<daNm>	<daN/cm²>	<daN/cm²>
1	T		2SLE R	-116732.00	-21984.20	0.00	19.87	349.27
1	T		4SLE Q	-100943.00	-18809.40	0.00	16.81	284.55

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N	My	Mz	c	s	K₂	Φeq	Δsm	As	Ac eff	σs	εsm	Wk
				<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
1	T		4SLE Q	-100943.00	-18809.40	0.00	33.00	391.43	0.50	8.00	610.69	7.54	5133.58	284.55	0.08	0.09
1	T		3SLE F	-105416.00	-19707.90	0.00	33.00	391.43	0.50	8.00	610.69	7.54	5133.58	302.71	0.09	0.09

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
1	T		1 9383.82	2.50	97140.40	438073.00	10.352

Numero del nucleo n. 319

Nodi: -158 -159 -160

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P		1SLU	-78440.70	-213.59	0.00	-381658.00	-4346.61	0.00	4.866
2	P		1SLU	-83408.60	559.28	0.00	-381658.00	4453.04	0.00	4.576
3	P		1SLU	-89281.00	-508.77	0.00	-381658.00	-4573.12	0.00	4.275

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σc	σf
				<daN>	<daNm>	<daNm>	<daN/cm²>	<daN/cm²>
1	P		2SLE R	-56140.10	-150.49	0.00	25.43	361.28
1	P		2SLE R	-56140.10	0.00	-1227.31	24.63	368.15
1	P		4SLE Q	-46787.20	-111.67	0.00	20.95	299.25
2	T		2SLE R	-59239.10	-436.02	0.00	31.77	418.29
2	T		4SLE Q	-49232.80	-344.32	0.00	26.08	345.22
3	P		2SLE R	-63964.60	-364.83	0.00	32.42	437.49
3	P		4SLE Q	-53197.30	-285.15	0.00	26.63	361.40

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
1	P		1 1112.57	2.50	15313.10	40515.40	13.764
2	T		1 1216.37	2.50	15313.10	40515.40	12.589

Numero del nucleo n. 320

Nodi: -36 -37 -38

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
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Relazione di calcolo

<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-94416.40	-282.55	0.00	-381658.00	-4671.27	0.00	4.042
2	P	1	SLU	-94237.40	225.99	0.00	-381658.00	4667.91	0.00	4.050
3	P	1	SLU	-94616.90	-29.15	0.00	-381658.00	-4675.11	0.00	4.034
4	P	1	SLU	-92570.20	-352.32	0.00	-381658.00	-4635.98	0.00	4.123
5	P	1	SLU	-81702.40	524.89	0.00	-381658.00	4416.49	0.00	4.671
6	P	1	SLU	-84519.00	-42.90	0.00	-381658.00	-4476.82	0.00	4.516
7	P	1	SLU	-89997.60	-259.32	0.00	-381658.00	-4586.79	0.00	4.241

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>f</sub> <daN/cm>
1	P	2	SLE R	-68302.00	-208.06	0.00	31.38	442.88
1	P	2	SLE R	-68302.00	0.00	1686.17	30.26	452.15
1	P	4	SLE Q	-57812.90	-175.56	0.00	26.55	374.80
2	P	2	SLE R	-68062.40	163.31	0.00	30.49	435.44
2	P	4	SLE Q	-57467.00	134.77	0.00	25.68	367.24
3	P	2	SLE R	-68226.00	0.00	604.34	28.57	427.90
3	P	4	SLE Q	-57461.80	0.00	510.37	24.06	360.42
4	P	2	SLE R	-66618.60	-262.12	0.00	31.66	439.88
4	P	2	SLE R	-66618.60	0.00	-2977.71	31.56	470.32
4	P	4	SLE Q	-55920.80	-232.35	0.00	26.80	370.89
5	P	2	SLE R	-58698.30	392.81	0.00	30.78	409.22
5	P	4	SLE Q	-49039.30	351.72	0.00	26.14	345.03
6	T	2	SLE R	-60223.40	-220.52	0.00	28.33	395.46
6	P	2	SLE R	-60707.30	0.00	1766.39	27.30	407.76
6	T	4	SLE Q	-50149.80	-166.28	0.00	23.28	326.99
7	P	2	SLE R	-64642.40	-183.65	0.00	29.46	417.38
7	P	4	SLE Q	-53873.70	-136.69	0.00	24.26	345.66

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	5846.76	2.50	15313.10	40515.50	2.619
2	P	1	2523.85	2.50	15313.10	40515.50	6.067
3	P	1	6204.41	2.50	15313.10	40515.50	2.468
4	P	1	536.50	2.50	15313.10	40515.50	28.543
5	P	1	1590.25	2.50	15313.10	40515.50	9.629
6	T	1	3937.65	2.50	15313.10	40515.50	3.889

Numero del nucleo n. 388

Nodi: -224 -231 -237 -245

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-110011.00	462.48	0.00	-429421.00	5319.27	0.00	3.903
2	P	1	SLU	-112561.00	329.24	0.00	-429421.00	5367.69	0.00	3.815
3	P	1	SLU	-100788.00	765.77	0.00	-429421.00	5142.93	0.00	4.261

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>f</sub> <daN/cm>
1	P	2	SLE R	-79629.20	0.00	-4521.09	34.13	508.72
1	P	4	SLE Q	-67029.50	0.00	-4020.00	28.99	431.96
2	T	2	SLE R	-80881.90	-419.25	0.00	35.75	486.43
2	T	4	SLE Q	-67889.80	-329.92	0.00	29.66	405.69
3	P	2	SLE R	-73007.00	546.12	0.00	34.92	458.99
3	P	2	SLE R	-73007.00	0.00	-6668.32	34.34	510.40
3	P	4	SLE Q	-61554.10	441.74	0.00	29.15	384.76

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
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Relazione di calcolo

1P	1	7093.03	2.50	17295.40	45760.00	2.438
2P	1	4831.93	2.50	17295.40	45760.00	3.579

Numero del nucleo n. 396

Nodi: -221 -222 -223

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1P	1	SLU		-118501.00	313.19	0.00	-381658.00	5069.11	0.00	3.221
2P	1	SLU		-112956.00	-111.90	0.00	-381658.00	-4991.10	0.00	3.379
3P	1	SLU		-107802.00	57.89	0.00	-381658.00	4907.53	0.00	3.540

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1P	2	SLE	R	-86540.40	228.30	0.00	39.13	556.42
1P	4	SLE	Q	-73565.00	187.61	0.00	33.15	472.13
2T	2	SLE	R	-81981.10	197.65	0.00	36.74	524.62
2T	4	SLE	Q	-69547.10	158.29	0.00	31.00	443.79
3P	2	SLE	R	-78720.90	0.00	-535.92	32.71	490.17
3P	4	SLE	Q	-66817.80	37.46	0.00	27.74	411.05

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		990.98	2.50	15313.10	36078.90	15.453
2P	1		1006.90	2.50	15313.10	38182.30	15.208

Numero del nucleo n. 398

Nodi: -221 -229 -235 -242

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1P	1	SLU		-119757.00	-292.68	0.00	-429421.00	-5487.50	0.00	3.586
2P	1	SLU		-119287.00	741.97	0.00	-429421.00	5479.73	0.00	3.600
3P	1	SLU		-105811.00	679.89	0.00	-429421.00	5238.92	0.00	4.058

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1P	2	SLE	R	-86765.00	0.00	-6620.69	39.24	583.85
1P	4	SLE	Q	-73062.30	0.00	-5812.36	33.33	495.78
2T	2	SLE	R	-85829.50	-625.60	0.00	40.80	537.65
2T	4	SLE	Q	-72086.00	-507.20	0.00	33.97	449.39
3P	2	SLE	R	-76705.80	0.00	-7366.75	36.52	542.55
3P	4	SLE	Q	-64687.90	0.00	-6257.30	30.85	458.33

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		9933.24	2.50	17295.40	45760.00	1.741
2T	1		6877.80	2.50	17295.40	45760.00	2.515

Numero del nucleo n. 399

Nodi: -223 -230 -236 -244



Relazione di calcolo

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-113786.00	264.20	0.00	-429421.00	5388.08	0.00	3.774
2	P	1	SLU	-115530.00	-758.28	0.00	-429422.00	-5417.15	0.00	3.717
3	P	1	SLU	-104253.00	-652.93	0.00	-429421.00	-5209.16	0.00	4.119

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1	P	2	SLE R	-82413.00	0.00	-6559.66	37.60	559.29
1	P	4	SLE Q	-69475.20	0.00	-5731.72	31.94	475.01
2	T	2	SLE R	-83079.40	624.64	0.00	39.79	522.68
2	T	4	SLE Q	-69845.60	506.95	0.00	33.16	437.27
3	P	2	SLE R	-75527.80	0.00	-7251.27	35.96	534.18
3	P	4	SLE Q	-63744.00	0.00	-6206.03	30.45	452.34

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	9194.45	2.50	17295.40	45760.00	1.881
2	P	1	6842.72	2.50	17295.40	45760.00	2.528

Numero del nucleo n. 400

Nodi: -226 -232 -238 -247

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-119668.00	859.84	0.00	-429421.00	5486.05	0.00	3.588
2	P	1	SLU	-118932.00	-1146.71	0.00	-429421.00	-5473.75	0.00	3.611
3	P	1	SLU	-105989.00	-533.37	0.00	-429421.00	-5242.35	0.00	4.052

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1	P	2	SLE R	-86637.70	620.03	0.00	41.00	541.35
1	P	2	SLE R	-86637.70	0.00	-6712.63	39.30	584.76
1	P	4	SLE Q	-73060.90	520.59	0.00	34.54	456.24
2	P	2	SLE R	-86045.90	-822.66	0.00	43.99	562.22
2	T	2	SLE R	-85500.70	819.53	0.00	43.75	558.90
2	P	4	SLE Q	-72449.00	-678.27	0.00	36.81	471.67
3	P	2	SLE R	-76749.40	0.00	-7246.07	36.39	540.68
3	P	4	SLE Q	-64798.60	0.00	-6146.02	30.76	456.98

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	9789.84	2.50	17295.40	45760.00	1.767
2	P	1	7360.90	2.50	17295.40	45760.00	2.350

Numero del nucleo n. 401

Nodi: -224 -225 -226

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
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Relazione di calcolo

				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1P	1	SLU		-115165.00	169.70	0.00	-381658.00	5022.15	0.00	3.314
2P	1	SLU		-109916.00	-52.36	0.00	-381658.00	-4942.88	0.00	3.472
3P	1	SLU		-105082.00	9.60	0.00	-381658.00	4862.19	0.00	3.632

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm <sup>2</sup> >	σ <sub>t</sub> <daN/cm <sup>2</sup> >
1P	2	SLE	R	-83867.80	124.35	0.00	36.19	526.28
1P	2	SLE	R	-83867.80	0.00	1404.12	36.13	540.53
1P	4	SLE	Q	-71205.60	104.19	0.00	30.70	446.64
2T	2	SLE	R	-79535.80	174.53	0.00	35.33	506.67
2P	2	SLE	R	-80019.70	0.00	1400.54	34.57	517.07
2T	4	SLE	Q	-67360.10	140.29	0.00	29.79	428.10
3P	2	SLE	R	-76523.80	0.00	502.19	31.77	476.07
3P	4	SLE	Q	-64841.40	0.00	449.78	26.96	403.93

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		644.35	2.50	15313.10	37344.50	23.765
2P	1		1574.19	2.50	15313.10	39335.50	9.728

Numero del nucleo n. 404

Nodi: -242 -243 -244

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-89281.00	-508.77	0.00	-381658.00	-4573.12	0.00	4.275
2T	1	SLU		-90246.50	-2671.19	0.00	-90246.50	-4591.58	0.00	1.719
3P	1	SLU		-83101.10	2132.63	0.00	-83101.10	4446.47	0.00	2.085

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm <sup>2</sup> >	σ <sub>t</sub> <daN/cm <sup>2</sup> >
1P	2	SLE	R	-63964.60	-364.83	0.00	32.42	437.49
1P	4	SLE	Q	-53197.30	-285.15	0.00	26.63	361.40
2T	2	SLE	R	-64676.90	-1922.22	0.00	61.74	654.19
2T	4	SLE	Q	-53705.10	-1509.49	0.00	49.28	530.27
3P	2	SLE	R	-59571.70	1533.69	0.00	51.68	567.81
3P	4	SLE	Q	-49841.60	1194.66	0.00	41.52	462.71

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		1189.66	2.50	15313.10	40515.40	12.872
2P	1		1196.15	2.50	15313.10	40515.40	12.802

Numero del nucleo n. 405

Nodi: -245 -246 -247

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-89997.60	-259.32	0.00	-381658.00	-4586.79	0.00	4.241
2T	1	SLU		-90128.00	-2412.08	0.00	-90128.00	-4589.31	0.00	1.903
3P	1	SLU		-82773.10	2119.55	0.00	-82773.10	4439.48	0.00	2.095

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ <sub>c</sub>	σ <sub>t</sub>
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Relazione di calcolo

			<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
1P	2	SLE R	-64642.40	-183.65	0.00	29.46	417.38
1P	4	SLE Q	-53873.70	-136.69	0.00	24.26	345.66
2T	2	SLE R	-64742.60	-1736.09	0.00	57.59	627.03
2T	4	SLE Q	-53900.00	-1365.58	0.00	46.32	510.63
3P	2	SLE R	-59466.60	1523.38	0.00	51.44	565.73
3P	4	SLE Q	-49877.80	1188.03	0.00	41.41	462.02

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1166.61	2.50	15313.10	40515.50	13.126	
2P	1	4258.01	2.50	15313.10	40515.50	3.596	

Numero del nucleo n. 488

Nodi: -911 -918 -924 394

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-100788.00	765.77	0.00	-429421.00	5142.93	0.00	4.261	
2P	1	SLU	-102205.00	-262.66	0.00	-429421.00	-5170.04	0.00	4.202	
3P	1	SLU	-101614.00	-96.68	0.00	-429421.00	-5158.75	0.00	4.226	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-73007.00	546.12	0.00	34.92	458.99	
1P	2	SLE R	-73007.00	0.00	-6668.32	34.34	510.40	
1P	4	SLE Q	-61554.10	441.74	0.00	29.15	384.76	
2P	2	SLE R	-73995.20	0.00	-5189.95	32.91	489.96	
2P	4	SLE Q	-62304.60	0.00	-4377.49	27.72	412.68	
3P	2	SLE R	-73542.50	0.00	-2883.20	29.96	447.30	
3P	4	SLE Q	-61876.40	0.00	-2515.14	25.31	377.90	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	5256.05	2.50	17295.40	45760.00	3.291	
2P	1	7937.90	2.50	17295.40	45760.00	2.179	

Numero del nucleo n. 496

Nodi: -908 -909 -910

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-107802.00	57.89	0.00	-381658.00	4907.53	0.00	3.540	
2P	1	SLU	-102991.00	73.50	0.00	-381658.00	4827.26	0.00	3.706	
3P	1	SLU	-99562.80	26.06	0.00	-381658.00	4769.83	0.00	3.833	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-78720.90	0.00	-535.92	32.71	490.17	
1P	4	SLE Q	-66817.80	37.46	0.00	27.74	411.05	
2T	2	SLE R	-74782.30	137.10	0.00	32.74	472.77	
2T	4	SLE Q	-63382.70	111.25	0.00	27.66	400.04	
3P	2	SLE R	-72677.10	0.00	-344.74	29.97	449.23	
3P	4	SLE Q	-61582.80	0.00	-279.78	25.38	380.38	



Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1009.01	2.50	15313.10	40137.50	15.176
2	T	1	1011.36	2.50	15313.10	40515.40	15.141

Numero del nucleo n. 498

Nodi: -908 -916 -922 390

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-105811.00	679.89	0.00	-429421.00	5238.92	0.00	4.058
2	P	1	SLU	-106249.00	-206.19	0.00	-429421.00	-5247.32	0.00	4.042
3	P	1	SLU	-104592.00	-179.29	0.00	-429421.00	-5215.59	0.00	4.106

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-76705.80	0.00	-7366.75	36.52	542.55
1	P	4	SLE Q	-64687.90	0.00	-6257.30	30.85	458.33
2	P	2	SLE R	-76984.10	0.00	-5710.70	34.62	515.18
2	P	4	SLE Q	-64836.70	0.00	-4862.94	29.22	434.82
3	P	2	SLE R	-75756.70	0.00	-3244.05	31.19	465.54
3	P	4	SLE Q	-63757.10	0.00	-2859.97	26.41	394.07

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	5696.32	2.50	17295.40	45760.00	3.036
2	T	1	8238.00	2.50	17295.40	45760.00	2.099

Numero del nucleo n. 499

Nodi: -910 -917 -923 391

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-104253.00	-652.93	0.00	-429421.00	-5209.16	0.00	4.119
2	P	1	SLU	-105523.00	208.19	0.00	-429421.00	5233.47	0.00	4.069
3	P	1	SLU	-104607.00	188.99	0.00	-429421.00	5215.95	0.00	4.105

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-75527.80	0.00	-7251.27	35.96	534.18
1	P	4	SLE Q	-63744.00	0.00	-6206.03	30.45	452.34
2	P	2	SLE R	-76404.50	0.00	-5473.55	34.12	507.92
2	P	4	SLE Q	-64389.30	0.00	-4707.10	28.87	429.69
3	P	2	SLE R	-75717.30	0.00	-3382.31	31.34	467.74
3	P	4	SLE Q	-63772.70	0.00	-2997.41	26.58	396.55

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	6627.54	2.50	17295.40	45760.00	2.610
2	P	1	8749.56	2.50	17295.40	45760.00	1.977

Numero del nucleo n. 500



Relazione di calcolo

Nodi: -913 -919 -925 395

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-105989.00	-533.37	0.00	-429421.00	-5242.35	0.00	4.052
	2P	1	SLU	-106110.00	137.98	0.00	-429421.00	5244.61	0.00	4.047
	3P	1	SLU	-104228.00	262.66	0.00	-429421.00	5208.70	0.00	4.120

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>f</sub> <daN/cm<sup>q</sup>>
	1P	2	SLE R	-76749.40	0.00	-7246.07	36.39	540.68
	1P	4	SLE Q	-64798.60	0.00	-6146.02	30.76	456.98
	2P	2	SLE R	-76789.80	0.00	-5261.82	34.00	506.30
	2P	4	SLE Q	-64737.20	0.00	-4480.97	28.72	427.62
	3P	2	SLE R	-75399.10	0.00	-3068.56	30.85	460.55
	3P	4	SLE Q	-63523.60	0.00	-2687.77	26.11	389.80

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	7172.79	2.50	17295.40	45760.00	2.411
	2P	1	9043.51	2.50	17295.40	45760.00	1.912

Numero del nucleo n. 501

Nodi: -911 -912 -913

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-105082.00	9.60	0.00	-381658.00	4862.19	0.00	3.632
	2P	1	SLU	-100366.00	102.40	0.00	-381658.00	4783.59	0.00	3.803
	3P	1	SLU	-96854.00	3.97	0.00	-381658.00	4717.95	0.00	3.941

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>f</sub> <daN/cm<sup>q</sup>>
	1P	2	SLE R	-76523.80	0.00	502.19	31.77	476.07
	1P	4	SLE Q	-64841.40	0.00	449.78	26.96	403.93
	2T	2	SLE R	-72674.50	113.45	0.00	31.46	456.80
	2T	4	SLE Q	-61491.00	92.22	0.00	26.56	386.00
	3P	2	SLE R	-70529.40	0.00	132.34	28.78	431.51
	3P	4	SLE Q	-59676.30	0.00	127.09	24.37	365.44

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	281.51	2.50	15313.10	40515.50	54.396
	2P	1	751.14	2.50	15313.10	40515.50	20.387

Numero del nucleo n. 504

Nodi: 390 -927 391

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
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Relazione di calcolo

			<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1P	1	SLU	-83101.10	2132.63	0.00	-83101.10	4446.47	0.00	2.085
2P	1	SLU	-83911.30	-439.42	0.00	-381658.00	-4463.76	0.00	4.548
3P	1	SLU	-87618.60	-67.03	0.00	-381658.00	-4541.33	0.00	4.356

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1P	2	SLE	R	-59571.70	1533.69	0.00	51.68	567.81
1P	4	SLE	Q	-49841.60	1194.66	0.00	41.52	462.71
2P	2	SLE	R	-60176.60	-313.87	0.00	29.97	407.65
2P	4	SLE	Q	-50303.90	-238.50	0.00	24.63	337.58
3P	2	SLE	R	-62847.10	-47.72	0.00	26.31	388.30
3P	4	SLE	Q	-52450.60	-41.40	0.00	21.99	324.27

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P	1	164.85	2.50	15313.10	40515.40	92.892	
2T	1	222.75	2.50	15313.10	40515.40	68.746	

Numero del nucleo n. 505

Nodi: 394 -928 395

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-82773.10	2119.55	0.00	-82773.10	4439.48	0.00	2.095	
2P	1	SLU	-83658.30	-471.40	0.00	-381658.00	-4458.37	0.00	4.562	
3P	1	SLU	-87349.70	-34.42	0.00	-381658.00	-4536.24	0.00	4.369	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1P	2	SLE	R	-59466.60	1523.38	0.00	51.44	565.73
1P	4	SLE	Q	-49877.80	1188.03	0.00	41.41	462.02
2P	2	SLE	R	-60108.60	-337.31	0.00	30.36	410.37
2P	4	SLE	Q	-50360.30	-258.12	0.00	25.00	340.55
3P	2	SLE	R	-62747.90	0.00	698.66	26.49	396.68
3P	4	SLE	Q	-52467.70	0.00	594.69	22.17	331.92

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1204.26	2.50	15313.10	40515.50	12.716	
2T	1	1437.88	2.50	15313.10	40515.50	10.650	

Numero del nucleo n. 588

Nodi: -998 -1005 -1011 -1019

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-101614.00	-96.68	0.00	-429421.00	-5158.75	0.00	4.226	
2P	1	SLU	-103262.00	693.16	0.00	-429421.00	5190.21	0.00	4.159	
3P	1	SLU	-89774.40	784.70	0.00	-429421.00	4913.89	0.00	4.783	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1P	2	SLE	R	-73542.50	0.00	-2883.20	29.96	447.30



Relazione di calcolo

1P	4	SLE Q	-61876.40	0.00	-2515.14	25.31	377.90
2T	2	SLE R	-74218.90	-632.21	0.00	36.72	475.75
2T	4	SLE Q	-62260.50	-514.70	0.00	30.56	397.24
3P	2	SLE R	-65032.60	559.38	0.00	32.26	417.51
3P	2	SLE R	-65032.60	0.00	-5370.10	29.90	444.72
3P	4	SLE Q	-54817.40	453.55	0.00	26.91	349.79

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	8334.44	2.50	17295.40	45760.00	2.075	
2P	1	5517.30	2.50	17295.40	45760.00	3.135	

Numero del nucleo n. 596

Nodi: -995 -996 -997

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-99562.80	26.06	0.00	-381658.00	4769.83	0.00	3.833	
2P	1	SLU	-95016.50	64.89	0.00	-381658.00	4682.78	0.00	4.017	
3P	1	SLU	-91062.10	-85.49	0.00	-381658.00	-4607.13	0.00	4.191	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm²>	σ <sub>t</sub> <daN/cm²>
1P	2	SLE R	-72677.10	0.00	-344.74	29.97	449.23	
1P	4	SLE Q	-61582.80	0.00	-279.78	25.38	380.38	
2T	2	SLE R	-68933.40	159.54	0.00	30.77	440.23	
2T	4	SLE Q	-58322.40	129.81	0.00	25.94	371.77	
3P	2	SLE R	-66487.90	-60.33	0.00	28.01	412.11	
3P	4	SLE Q	-56313.40	-45.59	0.00	23.63	348.31	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1024.99	2.50	15313.10	40515.40	14.940	
2P	1	1044.24	2.50	15313.10	40515.40	14.664	

Numero del nucleo n. 598

Nodi: -995 -1003 -1009 -1016

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-104592.00	-179.29	0.00	-429421.00	-5215.59	0.00	4.106	
2P	1	SLU	-105439.00	716.11	0.00	-429421.00	5231.84	0.00	4.073	
3P	1	SLU	-91577.30	776.85	0.00	-429421.00	4952.50	0.00	4.689	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm²>	σ <sub>t</sub> <daN/cm²>
1P	2	SLE R	-75756.70	0.00	-3244.05	31.19	465.54	
1P	4	SLE Q	-63757.10	0.00	-2859.97	26.41	394.07	
2T	2	SLE R	-75852.00	-613.30	0.00	37.01	482.32	
2T	4	SLE Q	-63652.50	-499.02	0.00	30.81	402.89	
3P	2	SLE R	-66380.20	554.19	0.00	32.66	424.17	
3P	2	SLE R	-66380.20	0.00	-5580.40	30.64	455.66	
3P	4	SLE Q	-55960.50	449.25	0.00	27.25	355.45	

Stato limite ultimo - Verifiche a taglio



Relazione di calcolo

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	8416.19	2.50	17295.40	45760.00	2.055
	2P	1	5179.65	2.50	17295.40	45760.00	3.339

Numero del nucleo n. 599

Nodi: -997 -1004 -1010 -1018

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
	1P	1	SLU	-104607.00	188.99	0.00	-429421.00	5215.95	0.00	4.105
	2P	1	SLU	-106258.00	-701.18	0.00	-429421.00	-5247.50	0.00	4.041
	3P	1	SLU	-93405.80	-748.22	0.00	-429421.00	-4991.58	0.00	4.597

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>f</sub> <daN/cm>
	1P	2	SLE R	-75717.30	0.00	-3382.31	31.34	467.74
	1P	4	SLE Q	-63772.70	0.00	-2997.41	26.58	396.55
	2T	2	SLE R	-76400.70	593.69	0.00	36.90	482.95
	2T	4	SLE Q	-64177.10	482.11	0.00	30.73	403.71
	3P	2	SLE R	-67644.90	-534.95	0.00	32.82	428.71
	3P	2	SLE R	-67644.90	0.00	-6027.72	31.64	470.29
	3P	4	SLE Q	-57085.60	-433.43	0.00	27.41	359.65

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	8877.71	2.50	17295.40	45760.00	1.948
	2T	1	6110.84	2.50	17295.40	45760.00	2.830

Numero del nucleo n. 600

Nodi: -1000 -1006 -1012 -1021

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
	1P	1	SLU	-104228.00	262.66	0.00	-429421.00	5208.70	0.00	4.120
	2P	1	SLU	-105029.00	-683.33	0.00	-429421.00	-5224.00	0.00	4.089
	3P	1	SLU	-92182.90	-707.18	0.00	-429421.00	-4965.41	0.00	4.658

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>f</sub> <daN/cm>
	1P	2	SLE R	-75399.10	0.00	-3068.56	30.85	460.55
	1P	4	SLE Q	-63523.60	0.00	-2687.77	26.11	389.80
	2T	2	SLE R	-75461.10	539.34	0.00	35.70	471.43
	2T	4	SLE Q	-63401.70	435.91	0.00	29.72	394.04
	3P	2	SLE R	-66713.60	-505.14	0.00	32.01	420.14
	3P	2	SLE R	-66713.60	0.00	-5369.12	30.51	453.78
	3P	4	SLE Q	-56310.60	-409.32	0.00	26.75	352.60

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	8870.93	2.50	17295.40	45760.00	1.950
	2P	1	6112.47	2.50	17295.40	45760.00	2.830

Numero del nucleo n. 601



Nodi: -998 -999 -1000

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-96854.00	3.97	0.00	-381658.00	4717.95	0.00	3.941
2	P	1	SLU	-92299.30	73.31	0.00	-381658.00	4630.75	0.00	4.135
3	P	1	SLU	-88218.60	-93.67	0.00	-381658.00	-4552.77	0.00	4.326

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>ε</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-70529.40	0.00	132.34	28.78	431.51
1	P	4	SLE Q	-59676.30	0.00	127.09	24.37	365.44
2	T	2	SLE R	-66800.20	139.96	0.00	29.56	424.65
2	T	4	SLE Q	-56443.10	113.87	0.00	24.90	358.22
3	P	2	SLE R	-64279.40	-66.42	0.00	27.23	399.50
3	P	4	SLE Q	-54387.20	-50.77	0.00	22.94	337.29

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	3.11	2.50	15313.10	40515.50	*****
2	T	1	156.91	2.50	15313.10	40515.50	97.595

Numero del nucleo n. 604

Nodi: -1016 -1017 -1018

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-87618.60	-67.03	0.00	-381658.00	-4541.33	0.00	4.356
2	T	1	SLU	-86834.50	-2876.16	0.00	-86834.50	-4526.33	0.00	1.574
3	P	1	SLU	-78444.80	2681.54	0.00	-78444.80	4346.69	0.00	1.621

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>ε</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-62847.10	-47.72	0.00	26.31	388.30
1	P	4	SLE Q	-52450.60	-41.40	0.00	21.99	324.27
2	T	2	SLE R	-62284.10	-2072.65	0.00	65.08	664.01
2	T	4	SLE Q	-51883.20	-1652.94	0.00	52.27	541.72
3	P	2	SLE R	-56254.80	1933.86	0.00	60.49	609.37
3	P	4	SLE Q	-47168.00	1535.76	0.00	48.38	497.60

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	228.07	2.50	15313.10	40515.40	67.141
2	T	1	203.93	2.50	15313.10	40515.40	75.091

Numero del nucleo n. 605

Nodi: -1019 -1020 -1021

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94



Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P		1	SLU	-87349.70	-34.42	0.00	-381658.00	-4536.24	0.00	4.369
2T		1	SLU	-86623.40	-2681.07	0.00	-86623.40	-4521.81	0.00	1.687
3P		1	SLU	-78565.50	2498.99	0.00	-78565.50	4349.28	0.00	1.740

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1P		2	SLE R	-62747.90	0.00	698.66	26.49	396.68
1P		4	SLE Q	-52467.70	0.00	594.69	22.17	331.92
2T		2	SLE R	-62210.70	-1929.05	0.00	61.33	641.42
2T		4	SLE Q	-51910.50	-1538.35	0.00	49.45	524.39
3P		2	SLE R	-56404.60	1800.43	0.00	56.91	589.46
3P		4	SLE Q	-47351.80	1430.44	0.00	45.75	482.45

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P		1	1676.05	2.50	15313.10	40515.50	9.136
2T		1	1599.96	2.50	15313.10	40515.50	9.571

Numero del nucleo n. 688

Nodi: -1685 -1692 -1698 594

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P		1	SLU	-89774.40	784.70	0.00	-429421.00	4913.89	0.00	4.783
2P		1	SLU	-91181.70	-242.53	0.00	-429421.00	-4944.02	0.00	4.710
3P		1	SLU	-90077.80	-158.13	0.00	-429421.00	-4920.34	0.00	4.767

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1P		2	SLE R	-65032.60	559.38	0.00	32.26	417.51
1P		2	SLE R	-65032.60	0.00	-5370.10	29.90	444.72
1P		4	SLE Q	-54817.40	453.55	0.00	26.91	349.79
2P		2	SLE R	-66005.00	0.00	-3805.54	28.36	422.69
2P		4	SLE Q	-55538.60	0.00	-3189.92	23.85	355.45
3P		2	SLE R	-65177.80	-112.59	0.00	25.24	365.24
3P		2	SLE R	-65177.80	0.00	-1436.82	25.20	376.92
3P		4	SLE Q	-54796.30	0.00	-1263.10	21.25	317.85

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P		1	4306.73	2.50	17295.40	45760.00	4.016
2P		1	7172.53	2.50	17295.40	45760.00	2.411

Numero del nucleo n. 696

Nodi: -1682 -1683 -1684

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P		1	SLU	-91062.10	-85.49	0.00	-381658.00	-4607.13	0.00	4.191
2P		1	SLU	-86672.50	171.80	0.00	-381658.00	4522.91	0.00	4.403
3P		1	SLU	-83900.90	-61.40	0.00	-381658.00	-4463.54	0.00	4.549



Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-66487.90	-60.33	0.00	28.01	412.11
1	P	4	SLE Q	-56313.40	-45.59	0.00	23.63	348.31
2	P	2	SLE R	-63271.20	124.72	0.00	27.86	401.17
2	T	2	SLE R	-62856.50	113.17	0.00	27.48	397.10
2	P	4	SLE Q	-53566.30	99.27	0.00	23.47	338.79
3	P	2	SLE R	-61227.10	-43.40	0.00	25.58	377.87
3	P	4	SLE Q	-51767.10	-32.40	0.00	21.55	318.92

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1088.26	2.50	15313.10	40515.40	14.071
2	T	1	1116.39	2.50	15313.10	40515.40	13.717

Numero del nucleo n. 698

Nodi: -1682 -1690 -1696 590

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-91577.30	776.85	0.00	-429421.00	4952.50	0.00	4.689
2	P	1	SLU	-92655.00	-239.33	0.00	-429421.00	-4975.54	0.00	4.635
3	P	1	SLU	-91149.00	-185.51	0.00	-429421.00	-4943.31	0.00	4.711

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-66380.20	554.19	0.00	32.66	424.17
1	P	2	SLE R	-66380.20	0.00	-5580.40	30.64	455.66
1	P	4	SLE Q	-55960.50	449.25	0.00	27.25	355.45
2	P	2	SLE R	-67115.80	0.00	-4024.55	29.03	432.50
2	P	4	SLE Q	-56480.50	0.00	-3401.06	24.44	364.22
3	P	2	SLE R	-65997.10	-132.63	0.00	25.85	372.04
3	P	2	SLE R	-65997.10	0.00	-1602.09	25.69	384.23
3	P	4	SLE Q	-55493.70	0.00	-1425.90	21.70	324.45

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	3967.86	2.50	17295.40	45760.00	4.359
2	P	1	6949.33	2.50	17295.40	45760.00	2.489

Numero del nucleo n. 699

Nodi: -1684 -1691 -1697 591

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-93405.80	-748.22	0.00	-429421.00	-4991.58	0.00	4.597
2	P	1	SLU	-94603.50	253.98	0.00	-429421.00	5017.21	0.00	4.539
3	P	1	SLU	-93291.10	205.38	0.00	-429421.00	4989.16	0.00	4.603

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-67644.90	-534.95	0.00	32.82	428.71
1	P	2	SLE R	-67644.90	0.00	-6027.72	31.64	470.29
1	P	4	SLE Q	-57085.60	-433.43	0.00	27.41	359.65



Relazione di calcolo

2P	2SLE R	-68466.90	0.00	-4341.44	29.89	445.32
2P	4SLE Q	-57678.30	0.00	-3686.84	25.22	375.67
3P	2SLE R	-67491.80	0.00	-2156.66	26.90	401.96
3P	4SLE Q	-56815.40	0.00	-1904.75	22.75	339.94

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	6221.98	2.50	17295.40	45760.00	2.780	
2P	1	8869.03	2.50	17295.40	45760.00	1.950	

Numero del nucleo n. 700

Nodi: -1687 -1693 -1699 595

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-92182.90	-707.18	0.00	-429421.00	-4965.41	0.00	4.658	
2P	1	SLU	-92997.90	232.03	0.00	-429421.00	4982.92	0.00	4.618	
3P	1	SLU	-91373.00	224.22	0.00	-429421.00	4948.09	0.00	4.700	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-66713.60	-505.14	0.00	32.01	420.14	
1P	2	SLE R	-66713.60	0.00	-5369.12	30.51	453.78	
1P	4	SLE Q	-56310.60	-409.32	0.00	26.75	352.60	
2P	2	SLE R	-67255.10	0.00	-3614.74	28.58	426.11	
2P	4	SLE Q	-56661.50	0.00	-3059.34	24.09	359.24	
3P	2	SLE R	-66054.20	160.23	0.00	26.31	375.63	
3P	2	SLE R	-66054.20	0.00	-1553.85	25.65	383.69	
3P	4	SLE Q	-55605.50	131.43	0.00	22.09	315.80	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	6017.36	2.50	17295.40	45760.00	2.874	
2T	1	8349.28	2.50	17295.40	45760.00	2.071	

Numero del nucleo n. 701

Nodi: -1685 -1686 -1687

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-88218.60	-93.67	0.00	-381658.00	-4552.77	0.00	4.326	
2P	1	SLU	-83901.80	165.47	0.00	-381658.00	4463.54	0.00	4.549	
3P	1	SLU	-81077.90	-63.01	0.00	-381658.00	-4403.12	0.00	4.707	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-64279.40	-66.42	0.00	27.23	399.50	
1P	4	SLE Q	-54387.20	-50.77	0.00	22.94	337.29	
2P	2	SLE R	-61132.00	119.90	0.00	26.90	387.52	
2P	4	SLE Q	-51707.10	95.33	0.00	22.65	326.96	
3P	2	SLE R	-59063.60	-44.74	0.00	24.73	364.90	
3P	4	SLE Q	-49898.30	-33.79	0.00	20.82	307.74	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
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Relazione di calcolo

			<daN>		<daN>	<daN>	
1P	1	329.91	2.50	15313.10	40515.50	46.416	
2T	1	300.85	2.50	15313.10	40515.50	50.899	

Numero del nucleo n. 704

Nodi: 590 -1701 591

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	Nu&ltbr/><daN>	MRdy, r&ltbr/><daNm>	MRdz, r&ltbr/><daNm>	Sic.
1P	1	SLU		-78444.80	2681.54	0.00	-78444.80	4346.69	0.00	1.621
2P	1	SLU		-78265.80	-654.17	0.00	-381658.00	-4342.88	0.00	4.876
3P	1	SLU		-81562.60	7.90	0.00	-381658.00	4413.52	0.00	4.679

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1P	2	SLE	R	-56254.80	1933.86	0.00	60.49	609.37
1P	4	SLE	Q	-47168.00	1535.76	0.00	48.38	497.60
2P	2	SLE	R	-56149.90	-470.31	0.00	31.13	404.10
2P	4	SLE	Q	-47038.50	-370.15	0.00	25.65	335.34
3P	2	SLE	R	-58523.70	0.00	495.77	24.47	366.55
3P	4	SLE	Q	-48923.30	0.00	432.87	20.48	306.82

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu&ltbr/><daN>	ctgθ	VRsd&ltbr/><daN>	VRcd&ltbr/><daN>	Sic.
1P	1		961.53	2.50	15313.10	40515.40	15.926
2P	1		1034.36	2.50	15313.10	40515.40	14.804

Numero del nucleo n. 705

Nodi: 594 -1702 595

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	Nu&ltbr/><daN>	MRdy, r&ltbr/><daNm>	MRdz, r&ltbr/><daNm>	Sic.
1P	1	SLU		-78565.50	2498.99	0.00	-78565.50	4349.28	0.00	1.740
2P	1	SLU		-78366.70	-616.30	0.00	-381658.00	-4344.99	0.00	4.870
3P	1	SLU		-81626.20	7.99	0.00	-381658.00	4414.85	0.00	4.676

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1P	2	SLE	R	-56404.60	1800.43	0.00	56.91	589.46
1P	4	SLE	Q	-47351.80	1430.44	0.00	45.75	482.45
2P	2	SLE	R	-56274.10	-443.17	0.00	30.70	401.22
2P	4	SLE	Q	-47195.80	-349.57	0.00	25.35	333.54
3P	2	SLE	R	-58606.70	0.00	591.12	24.65	369.15
3P	4	SLE	Q	-49038.90	0.00	517.73	20.66	309.39

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu&ltbr/><daN>	ctgθ	VRsd&ltbr/><daN>	VRcd&ltbr/><daN>	Sic.
1P	1		1124.60	2.50	15313.10	40515.50	13.617
2T	1		1287.57	2.50	15313.10	40515.50	11.893

Numero del nucleo n. 788

Nodi: -1763 -1770 -1776 -1784



Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-90077.80	-158.13	0.00	-429421.00	-4920.35	0.00	4.767
2	P	1	SLU	-91595.70	770.17	0.00	-429421.00	4952.85	0.00	4.688
3	P	1	SLU	-77249.70	838.83	0.00	-77249.70	4634.54	0.00	5.525

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1	P	2	SLE R	-65177.80	-112.59	0.00	25.24	365.24
1	P	2	SLE R	-65177.80	0.00	-1436.82	25.20	376.92
1	P	4	SLE Q	-54796.30	0.00	-1263.10	21.25	317.85
2	T	2	SLE R	-65755.70	-673.55	0.00	34.33	434.97
2	T	4	SLE Q	-55097.80	-549.34	0.00	28.53	362.68
3	P	2	SLE R	-55951.50	597.90	0.00	29.60	373.06
3	P	2	SLE R	-55951.50	0.00	-4331.37	25.38	377.58
3	P	4	SLE Q	-47140.30	485.58	0.00	24.65	312.15

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	7494.70	2.50	17295.40	45760.00	2.308
2	P	1	4370.00	2.50	17295.40	45760.00	3.958

Numero del nucleo n. 796

Nodi: -1760 -1761 -1762

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-83900.90	-61.40	0.00	-381658.00	-4463.54	0.00	4.549
2	P	1	SLU	-79683.70	121.13	0.00	-381658.00	4373.25	0.00	4.790
3	P	1	SLU	-76296.30	-143.94	0.00	-381658.00	-4300.60	0.00	5.002

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1	P	2	SLE R	-61227.10	-43.40	0.00	25.58	377.87
1	P	4	SLE Q	-51767.10	-32.40	0.00	21.55	318.92
2	T	2	SLE R	-57720.90	150.73	0.00	26.07	370.92
2	T	4	SLE Q	-48715.80	123.32	0.00	21.93	312.53
3	P	2	SLE R	-55688.00	-102.91	0.00	24.40	352.17
3	P	4	SLE Q	-47071.90	-81.25	0.00	20.52	296.91

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1178.63	2.50	15313.10	40515.40	12.992
2	P	1	1232.47	2.50	15313.10	40515.40	12.425

Numero del nucleo n. 798

Nodi: -1760 -1768 -1774 -1781

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione



Relazione di calcolo

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-91149.00	-185.51	0.00	-429421.00	-4943.31	0.00	4.711
	2P	1	SLU	-92480.60	782.17	0.00	-429421.00	4971.79	0.00	4.643
	3P	1	SLU	-78130.80	847.35	0.00	-78130.80	4655.24	0.00	5.494

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
	1P	2	SLE R	-65997.10	-132.63	0.00	25.85	372.04
	1P	2	SLE R	-65997.10	0.00	-1602.09	25.69	384.23
	1P	4	SLE Q	-55493.70	0.00	-1425.90	21.70	324.45
	2T	2	SLE R	-66441.70	-663.33	0.00	34.42	437.46
	2T	4	SLE Q	-55683.00	-540.90	0.00	28.60	364.84
	3P	2	SLE R	-56621.90	604.65	0.00	29.95	377.48
	3P	2	SLE R	-56621.90	0.00	-4529.81	25.86	384.66
	3P	4	SLE Q	-47705.00	491.53	0.00	24.95	315.91

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	7137.96	2.50	17295.40	45760.00	2.423
	2P	1	3719.99	2.50	17295.40	45760.00	4.649

Numero del nucleo n. 799

Nodi: -1762 -1769 -1775 -1783

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-93291.10	205.38	0.00	-429421.00	4989.16	0.00	4.603
	2P	1	SLU	-94898.60	-744.49	0.00	-429421.00	-5023.59	0.00	4.525
	3P	1	SLU	-81018.80	-827.52	0.00	-429421.00	-4723.02	0.00	5.300

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
	1P	2	SLE R	-67491.80	0.00	-2156.66	26.90	401.96
	1P	4	SLE Q	-56815.40	0.00	-1904.75	22.75	339.94
	2T	2	SLE R	-68141.80	625.46	0.00	34.43	442.14
	2T	2	SLE R	-68141.80	0.00	4455.07	29.92	445.55
	2T	4	SLE Q	-57184.00	508.37	0.00	28.63	369.08
	3P	2	SLE R	-58647.70	-591.73	0.00	30.48	386.88
	3P	2	SLE R	-58647.70	0.00	-5450.60	27.70	411.65
	3P	4	SLE Q	-49477.40	-480.45	0.00	25.41	324.16

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	8894.45	2.50	17295.40	45760.00	1.945
	2T	1	5779.56	2.50	17295.40	45760.00	2.993

Numero del nucleo n. 800

Nodi: -1765 -1771 -1777 -1786

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-91373.00	224.22	0.00	-429421.00	4948.09	0.00	4.700
	2P	1	SLU	-92693.30	-712.59	0.00	-429421.00	-4976.32	0.00	4.633
	3P	1	SLU	-79233.70	-793.68	0.00	-429421.00	-4681.11	0.00	5.420



Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_t$ <daN/cmq>
	1P	2	SLE R	-66054.20	160.23	0.00	26.31	375.63
	1P	2	SLE R	-66054.20	0.00	-1553.85	25.65	383.69
	1P	4	SLE Q	-55605.50	131.43	0.00	22.09	315.80
	2T	2	SLE R	-66493.40	581.69	0.00	33.14	428.04
	2T	2	SLE R	-66493.40	0.00	4593.51	29.49	439.06
	2T	4	SLE Q	-55796.10	471.01	0.00	27.54	357.15
	3P	2	SLE R	-57312.60	-566.80	0.00	29.60	376.71
	3P	2	SLE R	-57312.60	0.00	-4747.50	26.37	392.19
	3P	4	SLE Q	-48348.70	-460.20	0.00	24.69	315.66

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	8237.83	2.50	17295.40	45760.00	2.100
	2P	1	5278.92	2.50	17295.40	45760.00	3.276

Numero del nucleo n. 801

Nodi: -1763 -1764 -1765

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
	1P	1	SLU	-81077.90	-63.01	0.00	-381658.00	-4403.12	0.00	4.707
	2P	1	SLU	-76950.90	110.95	0.00	-381658.00	4314.66	0.00	4.960
	3P	1	SLU	-73459.60	-138.91	0.00	-381658.00	-4239.83	0.00	5.195

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_t$ <daN/cmq>
	1P	2	SLE R	-59063.60	-44.74	0.00	24.73	364.90
	1P	4	SLE Q	-49898.30	-33.79	0.00	20.82	307.74
	2T	2	SLE R	-55636.70	134.97	0.00	24.95	356.14
	2T	4	SLE Q	-46919.60	110.33	0.00	20.98	299.88
	3P	2	SLE R	-53537.60	-99.23	0.00	23.46	338.61
	3P	4	SLE Q	-45228.30	-78.47	0.00	19.72	285.34

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	615.55	2.50	15313.10	40515.50	24.877
	2P	1	653.72	2.50	15313.10	40515.50	23.424

Numero del nucleo n. 804

Nodi: -1781 -1782 -1783

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
	1P	1	SLU	-81562.60	7.90	0.00	-381658.00	4413.52	0.00	4.679
	2T	1	SLU	-80008.30	-3130.34	0.00	-80008.30	-4380.18	0.00	1.399
	3P	1	SLU	-70796.30	3034.73	0.00	-70796.30	4177.83	0.00	1.377

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_t$ <daN/cmq>
	1P	2	SLE R	-58523.70	0.00	495.77	24.47	366.55
	1P	4	SLE Q	-48923.30	0.00	432.87	20.48	306.82



Relazione di calcolo

2T	2SLE R	-57407.40	-2258.99	0.00	70.44	666.10
2T	4SLE Q	-47888.80	-1820.36	0.00	56.70	545.84
3P	2SLE R	-50772.00	2190.92	0.00	68.93	617.62
3P	4SLE Q	-42615.90	1760.56	0.00	55.10	507.02

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1091.79	2.50	15313.10	40515.40	14.026	
2P	1	1047.23	2.50	15313.10	40515.40	14.623	

Numero del nucleo n. 805

Nodi: -1784 -1785 -1786

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1P	1	SLU	-81626.20	7.99	0.00	-381658.00	4414.85	0.00	4.676	
2T	1	SLU	-80082.50	-2918.15	0.00	-80082.50	-4381.77	0.00	1.502	
3P	1	SLU	-71177.40	2825.28	0.00	-71177.40	4186.85	0.00	1.482	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-58606.70	0.00	591.12	24.65	369.15	
1P	4	SLE Q	-49038.90	0.00	517.73	20.66	309.39	
2T	2	SLE R	-57488.40	-2100.98	0.00	65.46	642.19	
2T	4	SLE Q	-47997.50	-1691.61	0.00	52.80	526.42	
3P	2	SLE R	-51069.60	2035.91	0.00	63.53	596.55	
3P	4	SLE Q	-42888.40	1635.38	0.00	50.94	489.63	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1481.43	2.50	15313.10	40515.50	10.337	
2T	1	1365.61	2.50	15313.10	40515.50	11.213	

Numero del nucleo n. 888

Nodi: -2450 -2457 -2463 794

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1P	1	SLU	-77249.70	838.83	0.00	-77249.70	4634.54	0.00	5.525	
2P	1	SLU	-78653.90	-256.11	0.00	-429421.00	-4667.52	0.00	5.460	
3P	1	SLU	-77341.70	-177.60	0.00	-429421.00	-4636.69	0.00	5.552	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-55951.50	597.90	0.00	29.60	373.06	
1P	2	SLE R	-55951.50	0.00	-4331.37	25.38	377.58	
1P	4	SLE Q	-47140.30	485.58	0.00	24.65	312.15	
2P	2	SLE R	-56917.30	0.00	-2759.22	23.82	355.38	
2P	4	SLE Q	-47851.00	0.00	-2282.06	19.98	298.12	
3P	2	SLE R	-55936.80	-126.68	0.00	22.14	317.02	
3P	4	SLE Q	-46976.10	-102.63	0.00	18.53	265.79	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
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Relazione di calcolo

1P	1	3377.07	2.50	17295.40	45760.00	5.121
2T	1	6502.39	2.50	17295.40	45760.00	2.660

Numero del nucleo n. 896

Nodi: -2447 -2448 -2449

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-76296.30	-143.94	0.00	-381658.00	-4300.60	0.00	5.002
2	P	1	SLU	-72085.40	214.56	0.00	-381658.00	4208.05	0.00	5.295
3	P	1	SLU	-69591.30	-100.47	0.00	-381658.00	-4149.59	0.00	5.484

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-55688.00	-102.91	0.00	24.40	352.17
1	P	4	SLE Q	-47071.90	-81.25	0.00	20.52	296.91
2	P	2	SLE R	-52602.60	155.65	0.00	24.09	340.47
2	P	4	SLE Q	-44446.60	125.19	0.00	20.24	286.83
3	P	2	SLE R	-50763.10	-71.99	0.00	21.85	318.11
3	P	4	SLE Q	-42836.40	-56.89	0.00	18.37	267.92

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1329.51	2.50	15313.10	40515.40	11.518
2	P	1	1394.92	2.50	15313.10	40515.40	10.978

Numero del nucleo n. 898

Nodi: -2447 -2455 -2461 790

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-78130.80	847.35	0.00	-78130.80	4655.24	0.00	5.494
2	P	1	SLU	-79466.00	-265.98	0.00	-429421.00	-4686.62	0.00	5.404
3	P	1	SLU	-77959.20	-190.54	0.00	-429421.00	-4651.21	0.00	5.508

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-56621.90	604.65	0.00	29.95	377.48
1	P	2	SLE R	-56621.90	0.00	-4529.81	25.86	384.66
1	P	4	SLE Q	-47705.00	491.53	0.00	24.95	315.91
2	P	2	SLE R	-57540.90	0.00	-3033.26	24.38	363.53
2	P	4	SLE Q	-48376.30	0.00	-2527.81	20.47	305.24
3	P	2	SLE R	-56419.30	-136.22	0.00	22.46	320.76
3	P	4	SLE Q	-47385.20	-110.67	0.00	18.81	268.95

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2911.97	2.50	17295.40	45760.00	5.939
2	P	1	6244.14	2.50	17295.40	45760.00	2.770

Numero del nucleo n. 899

Nodi: -2449 -2456 -2462 791



Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-81018.80	-827.52	0.00	-429421.00	-4723.02	0.00	5.300
2	P	1	SLU	-82281.70	286.46	0.00	-429421.00	4752.61	0.00	5.219
3	P	1	SLU	-80850.20	214.40	0.00	-429421.00	4719.04	0.00	5.311

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1	P	2	SLE R	-58647.70	-591.73	0.00	30.48	386.88
1	P	2	SLE R	-58647.70	0.00	-5450.60	27.70	411.65
1	P	4	SLE Q	-49477.40	-480.45	0.00	25.41	324.16
2	P	2	SLE R	-59516.40	0.00	-3754.52	25.96	386.77
2	P	4	SLE Q	-50104.40	0.00	-3155.89	21.85	325.52
3	P	2	SLE R	-58455.30	153.33	0.00	23.47	333.78
3	P	2	SLE R	-58455.30	0.00	-1429.56	22.77	340.50
3	P	4	SLE Q	-49164.60	125.49	0.00	19.68	280.32

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	6298.65	2.50	17295.40	45760.00	2.746
2	P	1	9324.21	2.50	17295.40	45760.00	1.855

Numero del nucleo n. 900

Nodi: -2452 -2458 -2464 795

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-79233.70	-793.68	0.00	-429421.00	-4681.11	0.00	5.420
2	P	1	SLU	-80316.60	271.68	0.00	-429421.00	4706.58	0.00	5.347
3	P	1	SLU	-78809.00	218.69	0.00	-429421.00	4671.19	0.00	5.449

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1	P	2	SLE R	-57312.60	-566.80	0.00	29.60	376.71
1	P	2	SLE R	-57312.60	0.00	-4747.50	26.37	392.19
1	P	4	SLE Q	-48348.70	-460.20	0.00	24.69	315.66
2	P	2	SLE R	-58049.00	0.00	-3052.19	24.59	366.60
2	P	4	SLE Q	-48862.10	0.00	-2561.96	20.69	308.46
3	P	2	SLE R	-56934.20	156.10	0.00	22.96	325.90
3	P	4	SLE Q	-47876.10	127.84	0.00	19.25	273.64

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	5957.62	2.50	17295.40	45760.00	2.903
2	T	1	8737.56	2.50	17295.40	45760.00	1.979

Numero del nucleo n. 901

Nodi: -2450 -2451 -2452

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione



Relazione di calcolo

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-73459.60	-138.91	0.00	-381658.00	-4239.83	0.00	5.195
	2P	1	SLU	-69348.60	198.71	0.00	-381658.00	4143.83	0.00	5.503
	3P	1	SLU	-66795.70	-95.37	0.00	-381658.00	-4083.87	0.00	5.714

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_\epsilon$ <daN/cm <sup>2</sup> >
	1P	2	SLE R	-53537.60	-99.23	0.00	23.46	338.61
	1P	4	SLE Q	-45228.30	-78.47	0.00	19.72	285.34
	2P	2	SLE R	-50535.90	143.87	0.00	23.04	326.34
	2P	4	SLE Q	-42676.20	115.63	0.00	19.35	274.80
	3P	2	SLE R	-48661.70	-68.27	0.00	20.93	304.84
	3P	4	SLE Q	-41041.50	-54.07	0.00	17.59	256.63

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	904.01	2.50	15313.10	40515.50	16.939
	2P	1	967.94	2.50	15313.10	40515.50	15.820

Numero del nucleo n. 904

Nodi: 790 -2466 791

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-70796.30	3034.73	0.00	-70796.30	4177.83	0.00	1.377
	2P	1	SLU	-70115.80	-783.88	0.00	-70115.80	-4161.85	0.00	5.309
	3P	1	SLU	-73255.00	47.42	0.00	-381658.00	4235.45	0.00	5.210

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_\epsilon$ <daN/cm <sup>2</sup> >
	1P	2	SLE R	-50772.00	2190.92	0.00	68.93	617.62
	1P	4	SLE Q	-42615.90	1760.56	0.00	55.10	507.02
	2P	2	SLE R	-50305.70	-564.72	0.00	30.45	381.20
	2P	4	SLE Q	-42178.90	-451.95	0.00	25.14	316.74
	3P	2	SLE R	-52563.90	0.00	688.04	22.35	334.56
	3P	4	SLE Q	-43956.00	0.00	599.63	18.73	280.31

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	1332.93	2.50	15313.10	40515.40	11.488
	2P	1	1421.69	2.50	15313.10	40515.40	10.771

Numero del nucleo n. 905

Nodi: 794 -2467 795

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-71177.40	2825.28	0.00	-71177.40	4186.85	0.00	1.482
	2P	1	SLU	-70508.10	-734.47	0.00	-381658.00	-4171.08	0.00	5.413
	3P	1	SLU	-73587.70	41.55	0.00	-381658.00	4242.56	0.00	5.186

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_\epsilon$ <daN/cm <sup>2</sup> >
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Relazione di calcolo

1P	2	SLE R	-51069.60	2035.91	0.00	63.53	596.55
1P	4	SLE Q	-42888.40	1635.38	0.00	50.94	489.63
2P	2	SLE R	-50605.00	-528.45	0.00	29.92	378.17
2P	4	SLE Q	-42452.40	-423.15	0.00	24.74	314.55
3P	2	SLE R	-52810.50	0.00	592.92	22.30	333.97
3P	4	SLE Q	-44183.90	0.00	524.78	18.71	280.04

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1303.63	2.50	15313.10	40515.50	11.746	
2P	1	1450.87	2.50	15313.10	40515.50	10.555	

Numero del nucleo n. 988

Nodi: -2528 -2535 -2541 -2549

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1P	1	SLU	-77341.70	-177.60	0.00	-429421.00	-4636.69	0.00	5.552	
2T	1	SLU	-78283.40	-982.14	0.00	-78283.40	-4658.77	0.00	4.743	
3P	1	SLU	-64001.70	887.84	0.00	-64001.70	4319.53	0.00	4.865	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1P	2	SLE R	-55936.80	-126.68	0.00	22.14	317.02	
1P	4	SLE Q	-46976.10	-102.63	0.00	18.53	265.79	
2T	2	SLE R	-56534.20	-700.48	0.00	31.44	388.38	
2T	2	SLE R	-56534.20	0.00	5174.41	26.61	395.43	
2T	4	SLE Q	-47293.30	-571.67	0.00	26.07	323.20	
3P	2	SLE R	-46341.30	632.79	0.00	26.70	325.32	
3P	4	SLE Q	-39017.50	514.54	0.00	22.19	271.74	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	6733.71	2.50	17295.40	45760.00	2.568	
2P	1	3508.55	2.50	17295.40	45760.00	4.929	

Numero del nucleo n. 996

Nodi: -2525 -2526 -2527

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1P	1	SLU	-69591.30	-100.47	0.00	-381658.00	-4149.59	0.00	5.484	
2P	1	SLU	-65440.50	147.22	0.00	-381658.00	4052.02	0.00	5.832	
3P	1	SLU	-62271.50	-175.25	0.00	-381658.00	-3977.54	0.00	6.129	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1P	2	SLE R	-50763.10	-71.99	0.00	21.85	318.11	
1P	4	SLE Q	-42836.40	-56.89	0.00	18.37	267.92	
2T	2	SLE R	-47307.50	146.24	0.00	21.77	307.03	
2T	4	SLE Q	-39837.60	119.59	0.00	18.27	258.08	
3P	2	SLE R	-45436.30	-125.89	0.00	20.65	292.94	
3P	4	SLE Q	-38343.30	-101.23	0.00	17.34	246.54	

Stato limite ultimo - Verifiche a taglio



Relazione di calcolo

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	1504.28	2.50	15313.10	40515.40	10.180
	2P	1	1591.59	2.50	15313.10	40515.40	9.621

Numero del nucleo n. 998

Nodi: -2525 -2533 -2539 -2546

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-77959.20	-190.54	0.00	-429421.00	-4651.21	0.00	5.508
	2T	1	SLU	-78880.70	-977.72	0.00	-78880.70	-4672.82	0.00	4.779
	3P	1	SLU	-64661.20	898.52	0.00	-64661.20	4336.16	0.00	4.826

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
	1P	2	SLE R	-56419.30	-136.22	0.00	22.46	320.76
	1P	4	SLE Q	-47385.20	-110.67	0.00	18.81	268.95
	2T	2	SLE R	-57004.10	-698.85	0.00	31.58	390.73
	2T	4	SLE Q	-47692.40	-570.42	0.00	26.20	325.21
	3P	2	SLE R	-46843.50	641.15	0.00	27.01	329.02
	3P	4	SLE Q	-39435.30	521.74	0.00	22.45	274.85

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	6429.69	2.50	17295.40	45760.00	2.690
	2T	1	2941.79	2.50	17295.40	45760.00	5.879

Numero del nucleo n. 999

Nodi: -2527 -2534 -2540 -2548

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-80850.20	214.40	0.00	-429421.00	4719.04	0.00	5.311
	2P	1	SLU	-82567.20	-774.99	0.00	-429421.00	-4759.25	0.00	5.201
	3P	1	SLU	-68089.00	-883.56	0.00	-68089.00	-4419.16	0.00	5.002

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
	1P	2	SLE R	-58455.30	153.33	0.00	23.47	333.78
	1P	2	SLE R	-58455.30	0.00	-1429.56	22.77	340.50
	1P	4	SLE Q	-49164.60	125.49	0.00	19.68	280.32
	2T	2	SLE R	-59184.10	648.84	0.00	31.57	396.56
	2T	2	SLE R	-59184.10	0.00	5327.95	27.75	412.41
	2T	4	SLE Q	-49595.70	527.62	0.00	26.20	330.40
	3P	2	SLE R	-49261.90	-631.78	0.00	27.73	340.97
	3P	2	SLE R	-49261.90	0.00	-5075.95	23.87	354.45
	3P	4	SLE Q	-41532.90	-513.52	0.00	23.08	285.20

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	9241.23	2.50	17295.40	45760.00	1.872
	2P	1	5907.00	2.50	17295.40	45760.00	2.928

Numero del nucleo n. 1000



Nodi: -2530 -2536 -2542 -2551

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	Nu&ltbr/><daN>	MRdy, r&ltbr/><daNm>	MRdz, r&ltbr/><daNm>	Sic.
	1P	1	SLU	-78809.00	218.69	0.00	-429421.00	4671.19	0.00	5.449
	2P	1	SLU	-80407.80	-744.57	0.00	-429421.00	-4708.67	0.00	5.341
	3P	1	SLU	-66461.50	-839.55	0.00	-66461.50	-4380.90	0.00	5.218

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
	1P	2	SLE R	-56934.20	156.10	0.00	22.96	325.90
	1P	4	SLE Q	-47876.10	127.84	0.00	19.25	273.64
	2T	2	SLE R	-57574.20	617.18	0.00	30.49	384.11
	2T	2	SLE R	-57574.20	0.00	5481.12	27.35	406.39
	2T	4	SLE Q	-48232.80	501.02	0.00	25.29	319.88
	3P	2	SLE R	-48048.20	-599.12	0.00	26.78	330.54
	3P	2	SLE R	-48048.20	0.00	-4370.63	22.58	335.60
	3P	4	SLE Q	-40497.80	-485.98	0.00	22.27	276.34

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu&ltbr/><daN>	ctgθ	VRsd&ltbr/><daN>	VRcd&ltbr/><daN>	Sic.
	1P	1	8599.09	2.50	17295.40	45760.00	2.011
	2T	1	5505.06	2.50	17295.40	45760.00	3.142

Numero del nucleo n. 1001

Nodi: -2528 -2529 -2530

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	Nu&ltbr/><daN>	MRdy, r&ltbr/><daNm>	MRdz, r&ltbr/><daNm>	Sic.
	1P	1	SLU	-66795.70	-95.37	0.00	-381658.00	-4083.87	0.00	5.714
	2P	1	SLU	-62745.60	131.98	0.00	-381658.00	3988.66	0.00	6.083
	3P	1	SLU	-59465.00	-167.30	0.00	-381658.00	-3911.44	0.00	6.418

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
	1P	2	SLE R	-48661.70	-68.27	0.00	20.93	304.84
	1P	4	SLE Q	-41041.50	-54.07	0.00	17.59	256.63
	2T	2	SLE R	-45288.70	129.63	0.00	20.66	292.55
	2T	4	SLE Q	-38113.60	105.78	0.00	17.33	245.75
	3P	2	SLE R	-43341.10	-119.94	0.00	19.70	279.42
	3P	4	SLE Q	-36559.20	-96.55	0.00	16.53	235.07

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu&ltbr/><daN>	ctgθ	VRsd&ltbr/><daN>	VRcd&ltbr/><daN>	Sic.
	1P	1	1153.37	2.50	15313.10	40515.50	13.277
	2P	1	1232.61	2.50	15313.10	40515.50	12.423

Numero del nucleo n. 1004

Nodi: -2546 -2547 -2548

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>



Relazione di calcolo

14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
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Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-73255.00	47.42	0.00	-381658.00	4235.45	0.00	5.210
2	T	1	SLU	-71327.50	-3281.27	0.00	-71327.50	-4190.27	0.00	1.277
3	P	1	SLU	-61824.60	3239.30	0.00	-61824.60	3967.00	0.00	1.225

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-52563.90	0.00	688.04	22.35	334.56
1	P	4	SLE Q	-43956.00	0.00	599.63	18.73	280.31
2	T	2	SLE R	-51177.90	-2370.01	0.00	75.43	644.68
2	T	4	SLE Q	-42688.50	-1919.60	0.00	60.78	530.09
3	P	2	SLE R	-44320.50	2340.68	0.00	76.61	592.32
3	P	4	SLE Q	-37193.90	1893.75	0.00	61.47	489.42

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1530.63	2.50	15313.10	40515.40	10.004
2	P	1	1480.42	2.50	15313.10	40515.40	10.344

Numero del nucleo n. 1005

Nodi: -2549 -2550 -2551

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-73587.70	41.55	0.00	-381658.00	4242.56	0.00	5.186
2	T	1	SLU	-71657.50	-3044.34	0.00	-71657.50	-4198.08	0.00	1.379
3	P	1	SLU	-62509.90	2997.47	0.00	-62509.90	3983.15	0.00	1.329

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-52810.50	0.00	592.92	22.30	333.97
1	P	4	SLE Q	-44183.90	0.00	524.78	18.71	280.04
2	T	2	SLE R	-51418.10	-2193.43	0.00	68.90	621.84
2	T	4	SLE Q	-42909.90	-1774.79	0.00	55.56	510.82
3	P	2	SLE R	-44818.30	2161.17	0.00	69.33	575.49
3	P	4	SLE Q	-37620.40	1746.93	0.00	55.63	474.52

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1607.61	2.50	15313.10	40515.50	9.525
2	T	1	1493.34	2.50	15313.10	40515.50	10.254

Numero del nucleo n. 1088

Nodi: -3215 -3222 -3228 994

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-64001.70	887.84	0.00	-64001.70	4319.53	0.00	4.865
2	P	1	SLU	-65438.20	-269.18	0.00	-429421.00	-4355.58	0.00	6.562
3	P	1	SLU	-64037.80	-186.38	0.00	-429421.00	-4320.42	0.00	6.706



Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-46341.30	632.79	0.00	26.70	325.32
1	P	4	SLE Q	-39017.50	514.54	0.00	22.19	271.74
2	P	2	SLE R	-47326.50	-192.82	0.00	20.09	278.39
2	P	2	SLE R	-47326.50	0.00	-2001.40	19.45	290.39
2	P	4	SLE Q	-39742.20	-155.31	0.00	16.76	233.00
3	P	2	SLE R	-46280.90	-132.98	0.00	18.76	265.64
3	P	4	SLE Q	-38815.20	-107.76	0.00	15.68	222.34

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2852.66	2.50	17295.40	45760.00	6.063
2	T	1	6106.74	2.50	17295.40	45760.00	2.832

Numero del nucleo n. 1096

Nodi: -3212 -3213 -3214

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-62271.50	-175.25	0.00	-381658.00	-3977.54	0.00	6.129
2	P	1	SLU	-58052.00	236.96	0.00	-381658.00	3877.36	0.00	6.574
3	P	1	SLU	-55595.90	-123.07	0.00	-381658.00	-3815.67	0.00	6.865

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-45436.30	-125.89	0.00	20.65	292.94
1	P	4	SLE Q	-38343.30	-101.23	0.00	17.34	246.54
2	P	2	SLE R	-42347.20	171.90	0.00	20.22	280.32
2	P	4	SLE Q	-35722.20	139.38	0.00	16.96	235.71
3	P	2	SLE R	-40538.10	-88.68	0.00	18.00	258.20
3	P	4	SLE Q	-34145.40	-71.57	0.00	15.11	217.07

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1733.78	2.50	15313.10	40515.40	8.832
2	T	1	1830.67	2.50	15313.10	40515.40	8.365

Numero del nucleo n. 1098

Nodi: -3212 -3220 -3226 990

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-64661.20	898.52	0.00	-64661.20	4336.16	0.00	4.826
2	P	1	SLU	-66105.30	-283.54	0.00	-429421.00	-4372.38	0.00	6.496
3	P	1	SLU	-64546.70	-193.31	0.00	-429421.00	-4333.22	0.00	6.653

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-46843.50	641.15	0.00	27.01	329.02
1	P	4	SLE Q	-39435.30	521.74	0.00	22.45	274.85
2	P	2	SLE R	-47837.00	-203.37	0.00	20.44	282.40
2	P	2	SLE R	-47837.00	0.00	-2347.12	20.06	299.18
2	P	4	SLE Q	-40163.40	-164.13	0.00	17.05	236.32



Relazione di calcolo

3P	2	SLE R	-46675.30	-138.12	0.00	18.99	268.38
3P	4	SLE Q	-39136.20	-112.09	0.00	15.86	224.59

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	2403.23	2.50	17295.40	45760.00	7.197	
2P	1	5942.46	2.50	17295.40	45760.00	2.910	

Numero del nucleo n. 1099

Nodi: -3214 -3221 -3227 991

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-68089.00	-883.56	0.00	-68089.00	-4419.16	0.00	5.002	
2P	1	SLU	-69496.60	308.21	0.00	-429421.00	4452.31	0.00	6.179	
3P	1	SLU	-68066.60	221.41	0.00	-429421.00	4418.62	0.00	6.309	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm²>	σ <sub>t</sub> <daN/cm²>
1P	2	SLE R	-49261.90	-631.78	0.00	27.73	340.97	
1P	2	SLE R	-49261.90	0.00	-5075.95	23.87	354.45	
1P	4	SLE Q	-41532.90	-513.52	0.00	23.08	285.20	
2P	2	SLE R	-50235.30	0.00	-3355.33	22.14	329.70	
2P	4	SLE Q	-42245.10	0.00	-2804.92	18.60	276.97	
3P	2	SLE R	-49176.40	158.31	0.00	20.21	284.28	
3P	4	SLE Q	-41305.70	129.47	0.00	16.92	238.37	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	6618.42	2.50	17295.40	45760.00	2.613	
2P	1	9869.55	2.50	17295.40	45760.00	1.752	

Numero del nucleo n. 1100

Nodi: -3217 -3223 -3229 995

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-66461.50	-839.55	0.00	-66461.50	-4380.90	0.00	5.218	
2P	1	SLU	-67745.80	290.68	0.00	-429421.00	4411.08	0.00	6.339	
3P	1	SLU	-66286.90	221.62	0.00	-429421.00	4376.76	0.00	6.478	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm²>	σ <sub>t</sub> <daN/cm²>
1P	2	SLE R	-48048.20	-599.12	0.00	26.78	330.54	
1P	2	SLE R	-48048.20	0.00	-4370.63	22.58	335.60	
1P	4	SLE Q	-40497.80	-485.98	0.00	22.27	276.34	
2P	2	SLE R	-48929.90	208.11	0.00	20.91	288.87	
2P	2	SLE R	-48929.90	0.00	-2657.53	20.83	310.49	
2P	4	SLE Q	-41127.30	0.00	-2220.04	17.49	260.74	
3P	2	SLE R	-47850.50	158.14	0.00	19.73	277.10	
3P	4	SLE Q	-40165.80	129.30	0.00	16.50	232.19	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
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Relazione di calcolo

1P	1	6275.65	2.50	17295.40	45760.00	2.756
2P	1	9284.48	2.50	17295.40	45760.00	1.863

Numero del nucleo n. 1101

Nodi: -3215 -3216 -3217

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-59465.00	-167.30	0.00	-381658.00	-3911.44	0.00	6.418
2P	1	SLU		-55367.50	217.93	0.00	-381658.00	3809.94	0.00	6.893
3P	1	SLU		-52857.70	-116.11	0.00	-381658.00	-3746.65	0.00	7.220

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>ε</sub> <daN/cm<sup>q</sup>>
1P	2	SLE	R	-43341.10	-119.94	0.00	19.70	279.42
1P	4	SLE	Q	-36559.20	-96.55	0.00	16.53	235.07
2P	2	SLE	R	-40348.40	157.74	0.00	19.16	266.28
2P	4	SLE	Q	-34019.40	127.82	0.00	16.06	223.82
3P	2	SLE	R	-38504.90	-83.48	0.00	17.09	245.15
3P	4	SLE	Q	-32416.00	-67.49	0.00	14.34	206.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		1402.22	2.50	15313.10	40515.50	10.921
2P	1		1482.04	2.50	15313.10	40515.50	10.332

Numero del nucleo n. 1104

Nodi: 990 -3231 991

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-61824.60	3239.30	0.00	-61824.60	3967.00	0.00	1.225
2P	1	SLU		-60899.20	-859.20	0.00	-60899.20	-3945.29	0.00	4.592
3P	1	SLU		-64050.70	69.13	0.00	-381658.00	4019.45	0.00	5.959

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>ε</sub> <daN/cm<sup>q</sup>>
1P	2	SLE	R	-44320.50	2340.68	0.00	76.61	592.32
1P	4	SLE	Q	-37193.90	1893.75	0.00	61.47	489.42
2P	2	SLE	R	-43678.80	-620.01	0.00	28.75	348.32
2P	4	SLE	Q	-36610.90	-501.05	0.00	23.76	289.47
3P	2	SLE	R	-45944.40	0.00	820.07	19.87	297.24
3P	4	SLE	Q	-38390.10	0.00	711.61	16.64	248.94

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		1621.32	2.50	15313.10	40515.40	9.445
2T	1		1730.27	2.50	15313.10	40515.40	8.850

Numero del nucleo n. 1105

Nodi: 994 -3232 995



Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-62509.90	2997.47	0.00	-62509.90	3983.15	0.00	1.329
2	P	1	SLU	-61593.40	-798.52	0.00	-61593.40	-3961.59	0.00	4.961
3	P	1	SLU	-64669.30	58.23	0.00	-381658.00	4033.99	0.00	5.902

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>s</sub> <daN/cmq>
1	P	2	SLE R	-44818.30	2161.17	0.00	69.33	575.49
1	P	4	SLE Q	-37620.40	1746.93	0.00	55.63	474.52
2	P	2	SLE R	-44180.10	-575.10	0.00	28.15	345.37
2	P	4	SLE Q	-37042.10	-464.52	0.00	23.29	287.20
3	P	2	SLE R	-46384.60	0.00	699.33	19.86	297.26
3	P	4	SLE Q	-38769.90	0.00	613.97	16.65	249.10

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1560.78	2.50	15313.10	40515.50	9.811
2	P	1	1717.32	2.50	15313.10	40515.50	8.917

Numero del nucleo n. 1188

Nodi: -3293 -3300 -3306 -3314

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-64037.80	-186.38	0.00	-429421.00	-4320.42	0.00	6.706
2	T	1	SLU	-65037.40	-1016.75	0.00	-65037.40	-4345.52	0.00	4.274
3	P	1	SLU	-50452.90	923.62	0.00	-50452.90	3977.25	0.00	4.306

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>s</sub> <daN/cmq>
1	P	2	SLE R	-46280.90	-132.98	0.00	18.76	265.64
1	P	4	SLE Q	-38815.20	-107.76	0.00	15.68	222.34
2	T	2	SLE R	-46919.50	-724.98	0.00	28.37	339.39
2	T	2	SLE R	-46919.50	0.00	5761.16	23.86	353.75
2	T	4	SLE Q	-39171.70	-591.45	0.00	23.46	281.70
3	P	2	SLE R	-36515.80	657.98	0.00	23.56	275.27
3	P	4	SLE Q	-30733.10	534.05	0.00	19.52	229.33

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	6297.13	2.50	17295.40	45760.00	2.747
2	T	1	3012.28	2.50	17295.40	45760.00	5.742

Numero del nucleo n. 1196

Nodi: -3290 -3291 -3292

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
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Relazione di calcolo

1P	1SLU	-55595.90	-123.07	0.00	-381658.00	-3815.67	0.00	6.865
2P	1SLU	-51364.80	160.76	0.00	-381658.00	3709.02	0.00	7.430
3P	1SLU	-48194.10	-195.56	0.00	-381658.00	-3628.85	0.00	7.919

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1P	2	SLE	R	-40538.10	-88.68	0.00	18.00	258.20
1P	4	SLE	Q	-34145.40	-71.57	0.00	15.11	217.07
2T	2	SLE	R	-37025.40	140.25	0.00	17.50	243.75
2T	2	SLE	R	-37025.40	0.00	992.38	16.52	246.82
2T	4	SLE	Q	-31101.20	114.30	0.00	14.64	204.28
3P	2	SLE	R	-35151.90	-140.81	0.00	16.75	232.44
3P	4	SLE	Q	-29604.90	-114.20	0.00	14.03	195.17

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P	1		1982.74	2.50	15313.10	40515.40	7.723
2T	1		2100.69	2.50	15313.10	40124.40	7.290

Numero del nucleo n. 1198

Nodi: -3290 -3298 -3304 -3311

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-64546.70	-193.31	0.00	-429421.00	-4333.22	0.00	6.653
2T	1	SLU		-65517.90	-1018.27	0.00	-65517.90	-4357.61	0.00	4.279
3P	1	SLU		-50883.50	932.64	0.00	-50883.50	3988.07	0.00	4.276

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1P	2	SLE	R	-46675.30	-138.12	0.00	18.99	268.38
1P	4	SLE	Q	-39136.20	-112.09	0.00	15.86	224.59
2T	2	SLE	R	-47294.20	-727.55	0.00	28.54	341.72
2T	2	SLE	R	-47294.20	0.00	5321.74	23.46	348.11
2T	4	SLE	Q	-39472.60	-593.35	0.00	23.60	283.56
3P	2	SLE	R	-36841.60	665.19	0.00	23.79	277.88
3P	4	SLE	Q	-30989.60	540.90	0.00	19.72	231.53

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P	1		6147.57	2.50	17295.40	45760.00	2.813
2T	1		2624.46	2.50	17295.40	45760.00	6.590

Numero del nucleo n. 1199

Nodi: -3292 -3299 -3305 -3313

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-68066.60	221.41	0.00	-429421.00	4418.62	0.00	6.309
2T	1	SLU		-69355.80	930.50	0.00	-69355.80	4449.00	0.00	4.781
3P	1	SLU		-55140.60	-923.31	0.00	-55140.60	-4096.04	0.00	4.436

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
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Relazione di calcolo

1P	2SLE R	-49176.40	158.31	0.00	20.21	284.28
1P	4SLE Q	-41305.70	129.47	0.00	16.92	238.37
2T	2SLE R	-50035.50	664.36	0.00	28.53	349.01
2T	2SLE R	-50035.50	0.00	6037.65	25.31	375.39
2T	4SLE Q	-41844.10	540.22	0.00	23.61	290.05
3P	2SLE R	-39867.90	-660.11	0.00	24.80	293.62
3P	2SLE R	-39867.90	0.00	-4887.54	20.26	300.45
3P	4SLE Q	-33575.10	-536.46	0.00	20.58	244.96

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	9695.06	2.50	17295.40	45760.00	1.784	
2P	1	6255.72	2.50	17295.40	45760.00	2.765	

Numero del nucleo n. 1200

Nodi: -3295 -3301 -3307 -3316

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-66286.90	221.62	0.00	-429421.00	4376.76	0.00	6.478	
2T	1	SLU	-67458.80	908.01	0.00	-67458.80	4404.34	0.00	4.851	
3P	1	SLU	-53718.10	-854.41	0.00	-53718.10	-4060.04	0.00	4.752	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1P	2	SLE R	-47850.50	158.14	0.00	19.73	277.10	
1P	4	SLE Q	-40165.80	129.30	0.00	16.50	232.19	
2T	2	SLE R	-48620.30	647.42	0.00	27.75	339.36	
2T	2	SLE R	-48620.30	0.00	6308.63	25.13	372.48	
2T	4	SLE Q	-40624.70	525.73	0.00	22.94	281.74	
3P	2	SLE R	-38806.70	-609.16	0.00	23.61	281.84	
3P	4	SLE Q	-32653.70	-493.98	0.00	19.57	234.94	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	9134.14	2.50	17295.40	45760.00	1.893	
2T	1	5990.14	2.50	17295.40	45760.00	2.887	

Numero del nucleo n. 1201

Nodi: -3293 -3294 -3295

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-52857.70	-116.11	0.00	-381658.00	-3746.65	0.00	7.220	
2P	1	SLU	-48761.00	143.55	0.00	-381658.00	3643.18	0.00	7.827	
3P	1	SLU	-45507.60	-187.25	0.00	-381658.00	-3560.77	0.00	8.387	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1P	2	SLE R	-38504.90	-83.48	0.00	17.09	245.15	
1P	4	SLE Q	-32416.00	-67.49	0.00	14.34	206.01	
2T	2	SLE R	-35096.80	121.19	0.00	16.38	229.48	
2T	4	SLE Q	-29459.60	98.38	0.00	13.69	192.18	
3P	2	SLE R	-33165.90	-134.53	0.00	15.83	219.53	
3P	4	SLE Q	-27917.90	-109.24	0.00	13.26	184.26	



Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1	P	11619.19	2.50	15313.10	40432.70	9.457
	2	T	11702.31	2.50	15313.10	39729.30	8.995

Numero del nucleo n. 1204

Nodi: -3311 -3312 -3313

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
	1	P	1SLU	-64050.70	69.13	0.00	-381658.00	4019.45	0.00	5.959
	2	T	1SLU	-61974.30	-3356.39	0.00	-61974.30	-3970.57	0.00	1.183
	3	P	1SLU	-52548.90	3346.33	0.00	-52548.90	3738.87	0.00	1.117

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
	1	P	2SLE R	-45944.40	0.00	820.07	19.87	297.24
	1	P	4SLE Q	-38390.10	0.00	711.61	16.64	248.94
	2	T	2SLE R	-44451.10	-2423.74	0.00	79.92	601.77
	2	T	4SLE Q	-37031.50	-1963.79	0.00	64.34	495.75
	3	P	2SLE R	-37648.10	2418.47	0.00	82.81	867.21
	3	P	4SLE Q	-31576.70	1960.51	0.00	66.63	656.23

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1	P	11885.30	2.50	15313.10	40515.40	8.122
	2	T	11823.55	2.50	15313.10	40515.40	8.397

Numero del nucleo n. 1205

Nodi: -3314 -3315 -3316

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
	1	P	1SLU	-64669.30	58.23	0.00	-381658.00	4033.99	0.00	5.902
	2	T	1SLU	-62547.30	-3097.63	0.00	-62547.30	-3984.09	0.00	1.286
	3	P	1SLU	-53480.60	3069.55	0.00	-53480.60	3762.35	0.00	1.226

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
	1	P	2SLE R	-46384.60	0.00	699.33	19.86	297.26
	1	P	4SLE Q	-38769.90	0.00	613.97	16.65	249.10
	2	T	2SLE R	-44856.30	-2231.38	0.00	72.06	584.21
	2	T	4SLE Q	-37382.90	-1805.42	0.00	57.94	480.36
	3	P	2SLE R	-38315.60	2213.24	0.00	73.98	629.09
	3	P	4SLE Q	-32140.70	1791.20	0.00	59.37	464.64

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1	P	11848.36	2.50	15313.10	40515.50	8.285
	2	P	11730.41	2.50	15313.10	40515.50	8.849

Numero del nucleo n. 1288



Nodi: -3980 -3987 -3993 1194

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
	1P	1	SLU	-50452.90	923.62	0.00	-50452.90	3977.25	0.00	4.306
	2P	1	SLU	-52026.90	-273.18	0.00	-429421.00	-4017.13	0.00	8.254
	3P	1	SLU	-50719.00	-191.66	0.00	-429421.00	-3984.02	0.00	8.467

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ <sub>c</sub>	σ <sub>t</sub>
				<daN>	<daNm>	<daNm>	<daN/cm²>	<daN/cm²>
	1P	2	SLE R	-36515.80	657.98	0.00	23.56	275.27
	1P	4	SLE Q	-30733.10	534.05	0.00	19.52	229.33
	2P	2	SLE R	-37599.50	-195.50	0.00	16.63	226.20
	2T	2	SLE R	-37132.20	0.00	1863.97	15.62	232.96
	2P	4	SLE Q	-31529.60	-157.36	0.00	13.84	188.90
	3P	2	SLE R	-36621.60	-136.76	0.00	15.35	213.94
	3P	2	SLE R	-36621.60	0.00	1258.51	14.70	219.65
	3P	4	SLE Q	-30648.10	-111.15	0.00	12.79	178.66

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
	1P	1	2440.09	2.50	17295.40	44282.90	7.088
	2P	1	5738.73	2.50	17295.40	44522.40	3.014

Numero del nucleo n. 1296

Nodi: -3977 -3978 -3979

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
	1P	1	SLU	-48194.10	-195.56	0.00	-381658.00	-3628.85	0.00	7.919
	2P	1	SLU	-43840.30	250.48	0.00	-381658.00	3518.40	0.00	8.706
	3P	1	SLU	-41266.30	-139.03	0.00	-381658.00	-3451.73	0.00	9.249

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ <sub>c</sub>	σ <sub>t</sub>
				<daN>	<daNm>	<daNm>	<daN/cm²>	<daN/cm²>
	1P	2	SLE R	-35151.90	-140.81	0.00	16.75	232.44
	1P	4	SLE Q	-29604.90	-114.20	0.00	14.03	195.17
	2P	2	SLE R	-31963.20	181.68	0.00	16.19	218.53
	2T	2	SLE R	-31548.40	0.00	1155.13	14.55	217.12
	2P	4	SLE Q	-26895.90	147.95	0.00	13.53	183.22
	3P	2	SLE R	-30065.20	-100.40	0.00	13.97	196.13
	3P	4	SLE Q	-25239.00	-81.68	0.00	11.68	164.29

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
	1P	1	2285.84	2.50	15313.10	39725.10	6.699
	2P	1	2406.95	2.50	15313.10	39064.40	6.362

Numero del nucleo n. 1298

Nodi: -3977 -3985 -3991 1190

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
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Relazione di calcolo

<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-50883.50	932.64	0.00	-50883.50	3988.07	0.00	4.276
2	P	1	SLU	-52339.00	-292.41	0.00	-429421.00	-4025.05	0.00	8.205
3	P	1	SLU	-50681.90	-197.04	0.00	-429421.00	-3983.00	0.00	8.473

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>f</sub> <daN/cm>
1	P	2	SLE R	-36841.60	665.19	0.00	23.79	277.88
1	P	4	SLE Q	-30989.60	540.90	0.00	19.72	231.53
2	P	2	SLE R	-37841.00	-209.62	0.00	16.94	229.18
2	T	2	SLE R	-37373.80	0.00	1529.68	15.30	228.44
2	P	4	SLE Q	-31724.70	-169.13	0.00	14.10	191.35
3	P	2	SLE R	-36607.00	-140.75	0.00	15.40	214.34
3	P	2	SLE R	-36607.00	0.00	986.20	14.37	214.82
3	P	4	SLE Q	-30639.40	-114.31	0.00	12.84	178.98

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2105.01	2.50	17295.40	44348.40	8.216
2	T	1	5747.06	2.50	17295.40	44477.50	3.009

Numero del nucleo n. 1299

Nodi: -3979 -3986 -3992 1191

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-55140.60	-923.31	0.00	-55140.60	-4096.04	0.00	4.436
2	P	1	SLU	-56741.60	322.55	0.00	-429421.00	4136.48	0.00	7.568
3	P	1	SLU	-55418.10	229.14	0.00	-429421.00	4103.08	0.00	7.749

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>f</sub> <daN/cm>
1	P	2	SLE R	-39867.90	-660.11	0.00	24.80	293.62
1	P	2	SLE R	-39867.90	0.00	-4887.54	20.26	300.45
1	P	4	SLE Q	-33575.10	-536.46	0.00	20.58	244.96
2	P	2	SLE R	-40978.80	0.00	-3103.09	18.50	275.33
2	P	4	SLE Q	-34393.50	0.00	-2592.52	15.52	230.88
3	P	2	SLE R	-39998.10	163.79	0.00	16.99	235.38
3	P	4	SLE Q	-33516.40	133.87	0.00	14.18	196.84

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	7244.09	2.50	17295.40	44996.00	2.388
2	P	1	10603.50	2.50	17295.40	45239.60	1.631

Numero del nucleo n. 1300

Nodi: -3982 -3988 -3994 1195

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
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Relazione di calcolo

1P	1SLU	-53718.10	-854.41	0.00	-53718.10	-4060.04	0.00	4.752
2P	1SLU	-55034.40	298.26	0.00	-429421.00	4093.36	0.00	7.803
3P	1SLU	-53514.80	228.10	0.00	-429421.00	4054.86	0.00	8.024

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_t$ <daN/cm <sup>2</sup> >
1P	2	SLE	R	-38806.70	-609.16	0.00	23.61	281.84
1P	4	SLE	Q	-32653.70	-493.98	0.00	19.57	234.94
2T	2	SLE	R	-39240.70	0.00	3048.13	17.81	264.99
2T	4	SLE	Q	-32836.70	0.00	2536.80	14.89	221.50
3P	2	SLE	R	-38584.10	162.75	0.00	16.46	227.62
3P	4	SLE	Q	-32315.00	132.86	0.00	13.73	190.23

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P	1		6814.32	2.50	17295.40	44779.70	2.538
2T	1		9898.55	2.50	17295.40	44887.50	1.747

Numero del nucleo n. 1301

Nodi: -3980 -3981 -3982

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-45507.60	-187.25	0.00	-381658.00	-3560.77	0.00	8.387
2P	1	SLU		-41353.10	229.30	0.00	-381658.00	3453.99	0.00	9.229
3P	1	SLU		-38790.00	-131.32	0.00	-381658.00	-3386.08	0.00	9.839

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_t$ <daN/cm <sup>2</sup> >
1P	2	SLE	R	-33165.90	-134.53	0.00	15.83	219.53
1P	4	SLE	Q	-27917.90	-109.24	0.00	13.26	184.26
2P	2	SLE	R	-30128.30	165.94	0.00	15.16	205.27
2P	4	SLE	Q	-25336.50	135.01	0.00	12.67	172.02
3P	2	SLE	R	-28241.70	-94.61	0.00	13.13	184.27
3P	4	SLE	Q	-23691.60	-77.08	0.00	10.97	154.28

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P	1		1836.17	2.50	15313.10	39317.50	8.340
2P	1		1911.78	2.50	15313.10	38687.10	8.010

Numero del nucleo n. 1304

Nodi: 1190 -3996 1191

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-52548.90	3346.33	0.00	-52548.90	3738.87	0.00	1.117
2P	1	SLU		-51552.90	-901.16	0.00	-51552.90	-3713.72	0.00	4.121
3P	1	SLU		-54814.40	76.55	0.00	-381658.00	3795.94	0.00	6.963

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_t$ <daN/cm <sup>2</sup> >
1P	2	SLE	R	-37648.10	2418.47	0.00	82.81	867.21
1P	4	SLE	Q	-31576.70	1960.51	0.00	66.63	656.23



Relazione di calcolo

2P	2SLE R	-36962.50	-650.78	0.00	26.57	311.62
2P	4SLE Q	-30968.20	-527.61	0.00	21.95	258.73
3P	2SLE R	-39311.30	0.00	899.25	17.31	258.67
3P	4SLE Q	-32823.50	0.00	772.68	14.48	216.46

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1867.73	2.50	15313.10	40385.90	8.199	
2T	1	1987.05	2.50	15313.10	40152.90	7.706	

Numero del nucleo n. 1305

Nodi: 1194 -3997 1195

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-53480.60	3069.55	0.00	-53480.60	3762.35	0.00	1.226	
2P	1	SLU	-52451.60	-828.24	0.00	-52451.60	-3736.52	0.00	4.511	
3P	1	SLU	-55548.90	61.06	0.00	-381658.00	3814.41	0.00	6.871	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-38315.60	2213.24	0.00	73.98	629.09	
1P	4	SLE Q	-32140.70	1791.20	0.00	59.37	464.64	
2P	2	SLE R	-37604.20	-596.76	0.00	25.87	308.30	
2P	4	SLE Q	-31511.40	-483.05	0.00	21.38	256.07	
3P	2	SLE R	-39828.60	0.00	818.57	17.39	260.04	
3P	4	SLE Q	-33262.80	0.00	698.37	14.55	217.49	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	2145.48	2.50	15313.10	40515.50	7.137	
2P	1	2331.23	2.50	15313.10	40371.10	6.569	

Numero del nucleo n. 1388

Nodi: -4058 -4065 -4071 -4079

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-50719.00	-191.66	0.00	-429421.00	-3984.02	0.00	8.467	
2T	1	SLU	-51899.00	-1061.68	0.00	-51899.00	-4013.95	0.00	3.781	
3P	1	SLU	-37095.40	941.96	0.00	-37095.40	3624.69	0.00	3.848	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1P	2	SLE R	-36621.60	-136.76	0.00	15.35	213.94	
1P	2	SLE R	-36621.60	0.00	1258.51	14.70	219.65	
1P	4	SLE Q	-30648.10	-111.15	0.00	12.79	178.66	
2T	2	SLE R	-37389.60	-757.33	0.00	25.45	291.78	
2T	2	SLE R	-37389.60	0.00	6502.82	21.33	315.24	
2T	4	SLE Q	-31099.40	-618.22	0.00	20.98	241.30	
3P	2	SLE R	-26831.60	670.40	0.00	20.32	224.63	
3P	4	SLE Q	-22532.50	543.26	0.00	16.73	186.21	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
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Relazione di calcolo

			<daN>		<daN>	<daN>	
1P	1	5897.73	2.50	17295.40	44323.40	2.933	
2P	1	2620.36	2.50	17295.40	44595.30	6.600	

Numero del nucleo n. 1396

Nodi: -4055 -4056 -4057

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-41266.30	-139.03	0.00	-381658.00	-3451.73	0.00	9.249
2P	1	SLU		-36905.50	168.79	0.00	-381658.00	3336.05	0.00	10.341
3P	1	SLU		-33711.20	-215.22	0.00	-381658.00	-3250.80	0.00	11.321

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1P	2	SLE	R	-30065.20	-100.40	0.00	13.97	196.13
1P	4	SLE	Q	-25239.00	-81.68	0.00	11.68	164.29
2P	2	SLE	R	-26870.20	123.06	0.00	13.08	179.74
2T	2	SLE	R	-26455.40	0.00	1412.05	12.88	191.82
2P	4	SLE	Q	-22524.50	100.24	0.00	10.91	150.28
3P	2	SLE	R	-24562.40	-155.20	0.00	12.72	170.01
3P	4	SLE	Q	-20597.70	-126.63	0.00	10.60	142.10

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		2581.81	2.50	24500.90	38673.90	9.490
2P	1		2703.81	2.50	24500.90	38012.20	9.062

Numero del nucleo n. 1398

Nodi: -4055 -4063 -4069 -4076

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-50681.90	-197.04	0.00	-429421.00	-3983.00	0.00	8.473
2T	1	SLU		-51632.10	-1058.29	0.00	-51632.10	-4007.08	0.00	3.786
3P	1	SLU		-36630.20	962.48	0.00	-36630.20	3612.35	0.00	3.753

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1P	2	SLE	R	-36607.00	-140.75	0.00	15.40	214.34
1P	2	SLE	R	-36607.00	0.00	986.20	14.37	214.82
1P	4	SLE	Q	-30639.40	-114.31	0.00	12.84	178.98
2T	2	SLE	R	-37207.60	-756.15	0.00	25.36	290.66
2T	2	SLE	R	-37207.60	0.00	6203.84	20.90	309.04
2T	4	SLE	Q	-30958.70	-617.36	0.00	20.92	240.44
3P	2	SLE	R	-26493.30	686.18	0.00	20.49	224.84
3P	4	SLE	Q	-22263.10	557.39	0.00	16.88	186.53

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		5965.36	2.50	17295.40	44317.80	2.899
2P	1		2428.98	2.50	17295.40	44554.70	7.120

Numero del nucleo n. 1399



Nodi: -4057 -4064 -4070 -4078

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
	1P	1	SLU	-55418.10	229.14	0.00	-429421.00	4103.08	0.00	7.749
	2T	1	SLU	-56905.10	968.19	0.00	-56905.10	4140.62	0.00	4.277
	3P	1	SLU	-42379.60	-939.69	0.00	-42379.60	-3765.70	0.00	4.007

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σc	σf
				<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
	1P	2	SLE R	-39998.10	163.79	0.00	16.99	235.38
	1P	4	SLE Q	-33516.40	133.87	0.00	14.18	196.84
	2T	2	SLE R	-41000.70	691.15	0.00	25.70	303.42
	2T	2	SLE R	-41000.70	0.00	6813.54	23.00	340.15
	2T	4	SLE Q	-34171.40	562.13	0.00	21.20	251.23
	3P	2	SLE R	-30617.00	-670.97	0.00	21.64	244.96
	3P	2	SLE R	-30617.00	0.00	-4644.95	16.64	246.28
	3P	4	SLE Q	-25735.20	-543.39	0.00	17.87	203.46

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
	1P	1	10402.30	2.50	17295.40	45038.30	1.663
	2P	1	6873.53	2.50	17295.40	45356.90	2.516

Numero del nucleo n. 1400

Nodi: -4060 -4066 -4072 -4081

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
	1P	1	SLU	-53514.80	228.10	0.00	-429421.00	4054.86	0.00	8.024
	2T	1	SLU	-54680.70	950.53	0.00	-54680.70	4084.42	0.00	4.297
	3P	1	SLU	-40540.70	-862.81	0.00	-40540.70	-3716.75	0.00	4.308

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σc	σf
				<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
	1P	2	SLE R	-38584.10	162.75	0.00	16.46	227.62
	1P	4	SLE Q	-32315.00	132.86	0.00	13.73	190.23
	2T	2	SLE R	-39348.10	677.82	0.00	24.89	292.91
	2T	2	SLE R	-39348.10	0.00	7073.71	22.72	335.76
	2T	4	SLE Q	-32778.30	551.83	0.00	20.53	242.48
	3P	2	SLE R	-29252.40	-614.46	0.00	20.26	230.89
	3P	4	SLE Q	-24594.00	-495.06	0.00	16.69	191.56

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
	1P	1	9789.96	2.50	17295.40	44748.70	1.767
	2P	1	6576.93	2.50	17295.40	45018.50	2.630

Numero del nucleo n. 1401

Nodi: -4058 -4059 -4060

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
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Relazione di calcolo

<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1	P	1	SLU	-38790.00	-131.32	0.00	-381658.00	-3386.08	0.00	9.839
2	P	1	SLU	-34654.40	150.45	0.00	-381658.00	3276.00	0.00	11.013
3	P	1	SLU	-31446.80	-206.16	0.00	-381658.00	-3190.26	0.00	12.137

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1	P	2	SLE R	-28241.70	-94.61	0.00	13.13	184.27
1	P	4	SLE Q	-23691.60	-77.08	0.00	10.97	154.28
2	P	2	SLE R	-25216.60	109.45	0.00	12.17	167.87
2	T	2	SLE R	-24801.90	0.00	953.09	11.51	171.68
2	P	4	SLE Q	-21120.30	89.08	0.00	10.14	140.25
3	P	2	SLE R	-22901.00	-148.34	0.00	11.92	159.00
3	P	4	SLE Q	-19190.00	-121.17	0.00	9.93	132.81

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2021.50	2.50	15313.10	38298.20	7.575
2	P	1	2093.83	2.50	15313.10	37670.70	7.313

Numero del nucleo n. 1404

Nodi: -4076 -4077 -4078

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1	P	1	SLU	-54814.40	76.55	0.00	-381658.00	3795.94	0.00	6.963
2	T	1	SLU	-52690.70	-3392.00	0.00	-52690.70	-3742.46	0.00	1.103
3	P	1	SLU	-43483.50	3360.57	0.00	-43483.50	3509.35	0.00	1.044

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1	P	2	SLE R	-39311.30	0.00	899.25	17.31	258.67
1	P	4	SLE Q	-32823.50	0.00	772.68	14.48	216.46
2	T	2	SLE R	-37789.80	-2448.47	0.00	84.00	892.62
2	T	4	SLE Q	-31450.60	-1984.23	0.00	67.67	686.46
3	P	2	SLE R	-31146.90	2426.56	0.00	86.30	1188.91
3	P	4	SLE Q	-26127.20	1963.77	0.00	69.40	915.61

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2167.18	2.50	15313.10	40515.40	7.066
2	P	1	2096.78	2.50	15313.10	40489.20	7.303

Numero del nucleo n. 1405

Nodi: -4079 -4080 -4081

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1	P	1	SLU	-55548.90	61.06	0.00	-381658.00	3814.41	0.00	6.871
2	T	1	SLU	-53291.40	-3104.71	0.00	-53291.40	-3757.63	0.00	1.210



Relazione di calcolo

3P	1SLU	-44406.40	3048.23	0.00	-44406.40	3532.82	0.00	1.159
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Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1P	2	SLE	R	-39828.60	0.00	818.57	17.39	260.04
1P	4	SLE	Q	-33262.80	0.00	698.37	14.55	217.49
2T	2	SLE	R	-38208.50	-2235.63	0.00	74.95	655.50
2T	4	SLE	Q	-31806.20	-1808.20	0.00	60.21	493.95
3P	2	SLE	R	-31801.70	2195.64	0.00	76.34	897.25
3P	4	SLE	Q	-26674.40	1772.28	0.00	61.13	677.15

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		2438.49	2.50	15313.10	40515.50	6.280
2T	1		2302.17	2.50	15313.10	40498.50	6.652

Numero del nucleo n. 1488

Nodi: -4745 -4752 -4758 1394

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-37095.40	941.96	0.00	-37095.40	3624.69	0.00	3.848
2P	1	SLU		-38719.40	-271.29	0.00	-429421.00	-3668.13	0.00	11.091
3P	1	SLU		-37410.80	-202.42	0.00	-429421.00	-3633.18	0.00	11.479

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1P	2	SLE	R	-26831.60	670.40	0.00	20.32	224.63
1P	4	SLE	Q	-22532.50	543.26	0.00	16.73	186.21
2P	2	SLE	R	-27948.50	-193.83	0.00	13.13	173.90
2T	2	SLE	R	-27481.30	0.00	2444.54	12.85	190.98
2P	4	SLE	Q	-23353.50	-155.18	0.00	10.86	144.50
3P	2	SLE	R	-26968.30	0.00	2074.56	12.22	181.76
3P	4	SLE	Q	-22473.10	0.00	1775.67	10.24	152.28

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		1948.64	2.50	17295.40	42251.00	8.876
2T	1		5149.79	2.50	17295.40	42405.60	3.358

Numero del nucleo n. 1496

Nodi: -4742 -4743 -4744

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-33711.20	-215.22	0.00	-381658.00	-3250.80	0.00	11.321
2P	1	SLU		-29361.40	258.16	0.00	-29361.40	3134.42	0.00	12.141
3P	1	SLU		-26779.10	-153.23	0.00	-381658.00	-3065.01	0.00	14.252

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1P	2	SLE	R	-24562.40	-155.20	0.00	12.72	170.01
1P	4	SLE	Q	-20597.70	-126.63	0.00	10.60	142.10
2P	2	SLE	R	-21376.70	187.00	0.00	11.99	154.90



Relazione di calcolo

2T	2SLE R	-20962.00	0.00	1624.80	10.98	163.12
2P	4SLE Q	-17898.70	152.24	0.00	9.97	129.12
3P	2SLE R	-19473.30	-110.75	0.00	9.86	133.14
3P	4SLE Q	-16247.60	-90.50	0.00	8.20	110.83

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	2881.58	2.50	20417.40	37527.50	7.086	
2P	1	2983.31	2.50	20417.40	36867.50	6.844	

Numero del nucleo n. 1498

Nodi: -4742 -4750 -4756 1390

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-36630.20	962.48	0.00	-36630.20	3612.27	0.00	3.753	
2P	1	SLU	-38143.10	-292.25	0.00	-429421.00	-3652.71	0.00	11.258	
3P	1	SLU	-36467.90	-204.62	0.00	-429421.00	-3607.93	0.00	11.775	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>f</sub> <daN/cm>
1P	2	SLE R	-26493.30	686.18	0.00	20.49	224.84	
1P	4	SLE Q	-22263.10	557.39	0.00	16.88	186.53	
2P	2	SLE R	-27531.80	-209.21	0.00	13.22	173.48	
2T	2	SLE R	-27064.50	0.00	2259.24	12.47	185.50	
2P	4	SLE Q	-23028.50	-168.30	0.00	10.95	144.31	
3P	2	SLE R	-26283.70	0.00	2015.85	11.90	177.04	
3P	4	SLE Q	-21932.10	0.00	1722.56	9.98	148.44	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1590.02	2.50	17295.40	42180.20	10.877	
2P	1	5159.87	2.50	17295.40	42410.40	3.352	

Numero del nucleo n. 1499

Nodi: -4744 -4751 -4757 1391

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-42379.60	-939.69	0.00	-42379.60	-3765.70	0.00	4.007	
2P	1	SLU	-44135.30	326.63	0.00	-429421.00	3812.40	0.00	9.730	
3P	1	SLU	-42869.00	237.08	0.00	-429421.00	3778.71	0.00	10.017	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>f</sub> <daN/cm>
1P	2	SLE R	-30617.00	-670.97	0.00	21.64	244.96	
1P	2	SLE R	-30617.00	0.00	-4644.95	16.64	246.28	
1P	4	SLE Q	-25735.20	-543.39	0.00	17.87	203.46	
2T	2	SLE R	-31372.70	0.00	3213.15	15.18	225.39	
2T	4	SLE Q	-26179.40	0.00	2691.07	12.68	188.25	
3P	2	SLE R	-30901.20	169.53	0.00	13.81	186.96	
3P	4	SLE Q	-25802.80	138.68	0.00	11.48	155.77	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
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Relazione di calcolo

			<daN>		<daN>	<daN>	
1P	1	7715.30	2.50	17295.40	43054.80	2.242	
2P	1	11121.70	2.50	17295.40	43321.90	1.555	

Numero del nucleo n. 1500

Nodi: -4747 -4753 -4759 1395

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	Nu&ltbr/><daN>	MRdy, r&ltbr/><daNm>	MRdz, r&ltbr/><daNm>	Sic.
1P	1	SLU		-40540.70	-862.81	0.00	-40540.70	-3716.75	0.00	4.308
2P	1	SLU		-41987.80	294.33	0.00	-429421.00	3755.23	0.00	10.227
3P	1	SLU		-40511.30	234.17	0.00	-429421.00	3715.90	0.00	10.600

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1P	2	SLE	R	-29252.40	-614.46	0.00	20.26	230.89
1P	4	SLE	Q	-24594.00	-495.06	0.00	16.69	191.56
2T	2	SLE	R	-29781.60	0.00	3473.16	14.92	221.34
2T	4	SLE	Q	-24854.30	0.00	2907.37	12.46	184.87
3P	2	SLE	R	-29157.30	167.12	0.00	13.14	177.25
3P	4	SLE	Q	-24356.10	136.65	0.00	10.93	147.72

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu&ltbr/><daN>	ctgθ	VRsd&ltbr/><daN>	VRcd&ltbr/><daN>	Sic.
1P	1		6976.49	2.50	17295.40	42775.10	2.479
2P	1		10037.50	2.50	17295.40	42995.20	1.723

Numero del nucleo n. 1501

Nodi: -4745 -4746 -4747

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>	<daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	Nu&ltbr/><daN>	MRdy, r&ltbr/><daNm>	MRdz, r&ltbr/><daNm>	Sic.
1P	1	SLU		-31446.80	-206.16	0.00	-381658.00	-3190.26	0.00	12.137
2P	1	SLU		-27408.00	235.30	0.00	-27408.00	3081.97	0.00	13.098
3P	1	SLU		-24924.90	-144.10	0.00	-381658.00	-3015.09	0.00	15.312

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N&ltbr/><daN>	My&ltbr/><daNm>	Mz&ltbr/><daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1P	2	SLE	R	-22901.00	-148.34	0.00	11.92	159.00
1P	4	SLE	Q	-19190.00	-121.17	0.00	9.93	132.81
2P	2	SLE	R	-19946.90	170.04	0.00	11.11	143.95
2T	2	SLE	R	-19532.10	0.00	1035.66	9.50	141.47
2P	4	SLE	Q	-16686.90	138.28	0.00	9.23	119.89
3P	2	SLE	R	-18118.40	-103.90	0.00	9.19	124.00
3P	4	SLE	Q	-15102.00	-85.00	0.00	7.63	103.14

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu&ltbr/><daN>	ctgθ	VRsd&ltbr/><daN>	VRcd&ltbr/><daN>	Sic.
1P	1		2192.25	2.50	15313.10	37184.00	6.985
2P	1		2245.71	2.50	15313.10	36571.10	6.819

Numero del nucleo n. 1504

Nodi: 1390 -4761 1391



Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-43483.50	3360.57	0.00	-43483.50	3509.35	0.00	1.044
2	P	1	SLU	-42271.50	-913.45	0.00	-42271.50	-3478.34	0.00	3.808
3	P	1	SLU	-45502.10	74.90	0.00	-381658.00	3560.63	0.00	8.388

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1	P	2	SLE R	-31146.90	2426.56	0.00	86.30	1188.91
1	P	4	SLE Q	-26127.20	1963.77	0.00	69.40	915.61
2	P	2	SLE R	-30307.20	-659.10	0.00	24.03	272.29
2	P	4	SLE Q	-25385.30	-533.29	0.00	19.79	225.56
3	P	2	SLE R	-32633.40	0.00	950.12	14.68	219.21
3	P	4	SLE Q	-27212.80	0.00	815.71	12.28	183.31

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2313.11	2.50	15313.10	39010.30	6.620
2	T	1	2433.61	2.50	15313.10	38744.60	6.292

Numero del nucleo n. 1505

Nodi: 1394 -4762 1395

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-44406.40	3048.23	0.00	-44406.40	3532.82	0.00	1.159
2	P	1	SLU	-43080.90	-827.42	0.00	-43080.90	-3499.11	0.00	4.229
3	P	1	SLU	-46056.00	55.11	0.00	-381658.00	3574.71	0.00	8.287

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1	P	2	SLE R	-31801.70	2195.64	0.00	76.34	897.25
1	P	4	SLE Q	-26674.40	1772.28	0.00	61.13	677.15
2	P	2	SLE R	-30878.30	-595.52	0.00	23.13	267.26
2	P	4	SLE Q	-25864.90	-480.41	0.00	19.04	221.41
3	P	2	SLE R	-33014.60	0.00	761.61	14.54	217.38
3	P	4	SLE Q	-27531.70	0.00	657.84	12.16	181.78

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2384.60	2.50	15313.10	39150.40	6.422
2	P	1	2570.39	2.50	15313.10	38949.30	5.958

Numero del nucleo n. 1588

Nodi: -4823 -4830 -4836 -4844

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
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Relazione di calcolo

1	P	1	SLU	-37410.80	-202.42	0.00	-429421.00	-3633.18	0.00	11.479
2	T	1	SLU	-38755.70	-1109.67	0.00	-38755.70	-3669.07	0.00	3.306
3	P	1	SLU	-23894.30	931.04	0.00	-23894.30	3268.57	0.00	3.511

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1	P	2	SLE R	-26968.30	0.00	2074.56	12.22	181.76
1	P	4	SLE Q	-22473.10	0.00	1775.67	10.24	152.28
2	T	2	SLE R	-27853.00	-792.05	0.00	22.88	245.50
2	T	2	SLE R	-27853.00	0.00	7054.21	18.56	273.37
2	T	4	SLE Q	-23026.40	-647.41	0.00	18.77	201.99
3	P	2	SLE R	-17256.20	661.37	0.00	18.30	175.46
3	P	4	SLE Q	-14434.20	534.33	0.00	14.78	144.17

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	5248.26	2.50	17295.40	42299.00	3.295
2	P	1	2071.00	2.50	17295.40	42596.00	8.351

Numero del nucleo n. 1596

Nodi: -4820 -4821 -4822

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-26779.10	-153.23	0.00	-363646.00	-2589.81	0.00	13.579
2	T	1	SLU	-21965.50	0.00	2518.04	-21965.50	0.00	30267.40	12.020
3	P	1	SLU	-19468.50	-233.53	0.00	-19468.50	-2382.37	0.00	10.202

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1	P	2	SLE R	-19473.30	-110.75	0.00	10.16	137.23
1	P	4	SLE Q	-16247.60	-90.50	0.00	8.44	114.24
2	T	2	SLE R	-15928.70	0.00	1838.46	9.56	141.42
2	T	4	SLE Q	-13186.50	0.00	1554.03	7.96	117.80
3	P	2	SLE R	-14154.40	-168.51	0.00	8.99	111.80
3	P	4	SLE Q	-11791.60	-137.94	0.00	7.45	92.80

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	3090.91	2.50	20417.40	36475.70	6.606
2	P	1	3132.73	2.50	20417.40	35827.10	6.517

Numero del nucleo n. 1598

Nodi: -4820 -4828 -4834 -4841

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-36467.90	-204.62	0.00	-429421.00	-3607.93	0.00	11.775
2	T	1	SLU	-37545.40	-1095.41	0.00	-37545.40	-3636.76	0.00	3.320
3	P	1	SLU	-22434.40	972.93	0.00	-22434.40	3228.51	0.00	3.318

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1	P	2	SLE R	-26283.70	0.00	2015.85	11.90	177.04



Relazione di calcolo

1P	4	SLE Q	-21932.10	0.00	1722.56	9.98	148.44
2T	2	SLE R	-26975.80	-782.59	0.00	22.48	239.82
2T	2	SLE R	-26975.80	0.00	6971.90	18.14	267.19
2T	4	SLE Q	-22330.50	-639.27	0.00	18.43	197.39
3P	2	SLE R	-16190.60	693.35	0.00	19.36	174.27
3P	4	SLE Q	-13588.40	562.50	0.00	15.64	143.75

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	5306.45	2.50	17295.40	42155.50	3.259	
2P	1	1823.89	2.50	17295.40	42411.80	9.483	

Numero del nucleo n. 1599

Nodi: -4822 -4829 -4835 -4843

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1P	1	SLU	-42869.00	237.08	0.00	-429421.00	3778.71	0.00	10.017	
2T	1	SLU	-44410.80	1047.40	0.00	-44410.80	3819.65	0.00	3.647	
3P	1	SLU	-29446.10	-906.68	0.00	-29446.10	-3419.43	0.00	3.771	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1P	2	SLE R	-30901.20	169.53	0.00	13.81	186.96	
1P	4	SLE Q	-25802.80	138.68	0.00	11.48	155.77	
2T	2	SLE R	-31940.90	748.86	0.00	23.36	261.38	
2T	2	SLE R	-31940.90	0.00	7539.72	20.62	303.90	
2T	4	SLE Q	-26480.60	611.42	0.00	19.21	215.57	
3P	2	SLE R	-21240.90	-645.70	0.00	18.32	192.79	
3P	4	SLE Q	-17781.40	-519.99	0.00	14.90	158.63	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	11021.60	2.50	17295.40	43129.30	1.569	
2P	1	7518.15	2.50	17295.40	43456.20	2.300	

Numero del nucleo n. 1600

Nodi: -4825 -4831 -4837 -4846

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
1P	1	SLU	-40511.30	234.17	0.00	-429421.00	3715.90	0.00	10.600	
2T	1	SLU	-41725.50	1040.26	0.00	-41725.50	3748.22	0.00	3.603	
3P	1	SLU	-27163.80	-819.00	0.00	-27163.80	-3357.72	0.00	4.100	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1P	2	SLE R	-29157.30	167.12	0.00	13.14	177.25	
1P	4	SLE Q	-24356.10	136.65	0.00	10.93	147.72	
2T	2	SLE R	-29956.10	742.93	0.00	22.59	250.10	
2T	2	SLE R	-29956.10	0.00	7667.64	20.06	295.42	
2T	4	SLE Q	-24840.20	607.64	0.00	18.59	206.35	
3P	2	SLE R	-19562.30	-581.75	0.00	16.59	175.81	
3P	4	SLE Q	-16412.60	-465.50	0.00	13.46	144.50	



Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	10044.20	2.50	17295.40	42770.60	1.722
2	T	1	6861.77	2.50	17295.40	42955.30	2.521

Numero del nucleo n. 1601

Nodi: -4823 -4824 -4825

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-24924.90	-144.10	0.00	-381658.00	-3015.09	0.00	15.312
2	P	1	SLU	-20983.80	153.50	0.00	-381658.00	2907.81	0.00	18.188
3	P	1	SLU	-18001.10	-222.46	0.00	-18001.10	-2826.03	0.00	12.703

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-18118.40	-103.90	0.00	9.19	124.00
1	P	4	SLE Q	-15102.00	-85.00	0.00	7.63	103.14
2	P	2	SLE R	-15236.20	111.40	0.00	8.16	107.48
2	T	2	SLE R	-14821.50	0.00	1121.51	7.73	114.73
2	P	4	SLE Q	-12665.00	90.63	0.00	6.75	89.08
3	P	2	SLE R	-13086.90	-160.18	0.00	8.16	100.94
3	P	4	SLE Q	-10892.10	-131.23	0.00	6.75	83.73

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2290.67	2.50	20417.50	36194.30	8.913
2	P	1	2304.57	2.50	20417.50	35596.40	8.860

Numero del nucleo n. 1604

Nodi: -4841 -4842 -4843

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-45502.10	74.90	0.00	-381658.00	3560.63	0.00	8.388
2	T	1	SLU	-43110.10	-3318.44	0.00	-43110.10	-3499.87	0.00	1.055
3	P	1	SLU	-34075.10	3221.67	0.00	-34075.10	3260.55	0.00	1.012

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-32633.40	0.00	950.12	14.68	219.21
1	P	4	SLE Q	-27212.80	0.00	815.71	12.28	183.31
2	T	2	SLE R	-30918.20	-2395.36	0.00	85.11	1164.87
2	T	4	SLE Q	-25669.50	-1941.56	0.00	68.69	913.38
3	P	2	SLE R	-24393.70	2323.92	0.00	85.18	1427.32
3	P	4	SLE Q	-20420.60	1876.38	0.00	68.45	1112.79

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2538.96	2.50	15313.10	39316.60	6.031
2	T	1	2470.19	2.50	15313.10	38953.60	6.199

Numero del nucleo n. 1605



Nodi: -4844 -4845 -4846

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1	P	1 SLU	-46056.00	55.11	0.00	-381658.00	3574.71	0.00	8.287
	2	T	1 SLU	-43390.70	-2997.84	0.00	-43390.70	-3507.06	0.00	1.170
	3	P	1 SLU	-34649.40	2878.53	0.00	-34649.40	3275.96	0.00	1.138

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
	1	P	2 SLE R	-33014.60	0.00	761.61	14.54	217.38
	1	P	4 SLE Q	-27531.70	0.00	657.84	12.16	181.78
	2	T	2 SLE R	-31100.00	-2158.67	0.00	75.13	890.06
	2	T	4 SLE Q	-25818.20	-1745.16	0.00	60.41	687.62
	3	P	2 SLE R	-24790.60	2071.12	0.00	74.52	1107.76
	3	P	4 SLE Q	-20744.30	1666.20	0.00	59.57	849.40

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1	P	1 2605.02	2.50	15313.10	39400.70	5.878
	2	P	1 2494.20	2.50	15313.10	39078.10	6.139

Numero del nucleo n. 1688

Nodi: -5510 -5517 -5523 1594

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1	P	1 SLU	-23894.30	931.04	0.00	-23894.30	3268.57	0.00	3.511
	2	T	1 SLU	-24927.20	0.00	3860.43	-24927.20	0.00	46794.90	12.122
	3	P	1 SLU	-24317.80	0.00	3723.72	-24317.80	0.00	46562.30	12.504

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
	1	P	2 SLE R	-17256.20	661.37	0.00	18.30	175.46
	1	P	4 SLE Q	-14434.20	534.33	0.00	14.78	144.17
	2	T	2 SLE R	-17912.50	0.00	2743.81	9.77	144.54
	2	T	4 SLE Q	-14785.20	0.00	2232.65	8.02	118.75
	3	P	2 SLE R	-17460.90	0.00	2645.65	9.49	140.39
	3	P	4 SLE Q	-14417.90	0.00	2235.81	7.89	116.82

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1	P	1 1381.81	2.50	17295.40	40242.80	12.517
	2	P	1 4249.65	2.50	17295.40	40492.40	4.070

Numero del nucleo n. 1696

Nodi: -5507 -5508 -5509

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94



Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P		1	SLU	-19468.50	-233.53	0.00	-19468.50	-2382.37	0.00	10.202
2P		1	SLU	-15497.10	257.75	0.00	-15497.10	2269.28	0.00	8.804
3P		1	SLU	-13215.50	-159.88	0.00	-13215.50	-2204.59	0.00	13.789

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1P		2	SLE R	-14154.40	-168.51	0.00	8.99	111.80
1P		4	SLE Q	-11791.60	-137.94	0.00	7.45	92.80
2P		2	SLE R	-11249.80	186.30	0.00	8.10	96.02
2T		2	SLE R	-10835.10	0.00	1907.67	7.54	111.06
2P		4	SLE Q	-9350.49	151.42	0.00	6.67	79.34
3P		2	SLE R	-9572.44	-115.35	0.00	6.11	75.80
3P		4	SLE Q	-7912.95	-94.17	0.00	5.03	62.49

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P		1	3147.39	2.50	17500.70	35366.40	5.560
2P		1	3115.43	2.50	17500.70	34763.80	5.617

Numero del nucleo n. 1698

Nodi: -5507 -5515 -5521 1590

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P		1	SLU	-22434.40	972.93	0.00	-22434.40	3228.51	0.00	3.318
2P		1	SLU	-23969.70	-279.82	0.00	-23969.70	-3270.50	0.00	11.688
3P		1	SLU	-22347.50	0.00	3869.24	-22347.50	0.00	45804.00	11.838

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
1P		2	SLE R	-16190.60	693.35	0.00	19.36	174.27
1P		4	SLE Q	-13588.40	562.50	0.00	15.64	143.75
2P		2	SLE R	-17246.10	-199.91	0.00	9.37	116.84
2T		2	SLE R	-16778.80	0.00	2664.77	9.26	137.04
2P		4	SLE Q	-14368.80	-160.12	0.00	7.71	96.58
3P		2	SLE R	-16038.10	0.00	2773.23	9.13	134.94
3P		4	SLE Q	-13309.60	0.00	2356.51	7.64	112.94

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1P		1	790.20	2.50	17295.40	40020.70	21.887
2T		1	3994.36	2.50	17295.40	40161.90	4.330

Numero del nucleo n. 1699

Nodi: -5509 -5516 -5522 1591

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P		1	SLU	-29446.10	-906.68	0.00	-29446.10	-3419.43	0.00	3.771
2T		1	SLU	-30707.70	0.00	4726.71	-30707.70	0.00	48954.00	10.357
3P		1	SLU	-30088.80	237.28	0.00	-429421.00	3436.76	0.00	14.272



Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1	P	2	SLE R	-21240.90	-645.70	0.00	18.32	192.79
1	P	4	SLE Q	-17781.40	-519.99	0.00	14.90	158.63
2	T	2	SLE R	-22075.70	0.00	3383.03	12.04	178.16
2	T	4	SLE Q	-18286.50	0.00	2817.97	9.99	147.86
3	P	2	SLE R	-21630.00	169.74	0.00	10.47	136.93
3	P	4	SLE Q	-17925.20	138.79	0.00	8.65	113.25

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	7494.48	2.50	17295.40	41087.40	2.308
2	T	1	10842.50	2.50	17295.40	41279.30	1.595

Numero del nucleo n. 1700

Nodi: -5512 -5518 -5524 1595

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-27163.80	-819.00	0.00	-27163.80	-3357.72	0.00	4.100
2	T	1	SLU	-28050.20	0.00	4699.79	-28050.20	0.00	47980.20	10.209
3	P	1	SLU	-27189.80	236.20	0.00	-27189.80	3358.43	0.00	14.219

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1	P	2	SLE R	-19562.30	-581.75	0.00	16.59	175.81
1	P	4	SLE Q	-16412.60	-465.50	0.00	13.46	144.50
2	T	2	SLE R	-20127.40	0.00	3352.93	11.30	167.12
2	T	4	SLE Q	-16706.00	0.00	2793.19	9.39	138.89
3	P	2	SLE R	-19512.80	168.65	0.00	9.69	125.37
3	P	4	SLE Q	-16218.90	137.81	0.00	8.02	103.92

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	6323.10	2.50	17295.40	40740.20	2.735
2	T	1	9208.46	2.50	17295.40	40875.00	1.878

Numero del nucleo n. 1701

Nodi: -5510 -5511 -5512

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-18001.10	-222.46	0.00	-18001.10	-2826.03	0.00	12.703
2	P	1	SLU	-14436.00	233.19	0.00	-14436.00	2727.83	0.00	11.698
3	P	1	SLU	-12319.10	-149.01	0.00	-12319.10	-2669.32	0.00	17.914

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1	P	2	SLE R	-13086.90	-160.18	0.00	8.16	100.94
1	P	4	SLE Q	-10892.10	-131.23	0.00	6.75	83.73
2	P	2	SLE R	-10482.00	168.14	0.00	7.24	86.18
2	T	2	SLE R	-10067.30	0.00	1150.88	5.84	86.49
2	P	4	SLE Q	-8704.50	136.41	0.00	5.96	71.13
3	P	2	SLE R	-8925.88	-107.24	0.00	5.53	68.58



## Relazione di calcolo

3P	4SLE Q	-7371.87	-87.58	0.00	4.55	56.51
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### Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2280.01	2.50	17500.70	35143.80	7.676
2	T	1	2247.72	2.50	17500.70	34521.00	7.786

### Numero del nucleo n. 1704

Nodi: 1590 -5527 1591

### Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

### Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-34075.10	3221.67	0.00	-34075.10	3260.55	0.00	1.012
2	P	1	SLU	-32349.10	-873.37	0.00	-32349.10	-3214.44	0.00	3.681
3	P	1	SLU	-35186.00	54.93	0.00	-381658.00	3290.25	0.00	10.847

### Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1P	2	SLE R	-24393.70	2323.92	0.00	85.18	1427.32	
1P	4	SLE Q	-20420.60	1876.38	0.00	68.45	1112.79	
2P	2	SLE R	-23176.70	-629.28	0.00	20.78	225.59	
2P	4	SLE Q	-19345.00	-507.47	0.00	16.97	185.73	
3P	2	SLE R	-25211.10	0.00	909.69	11.61	173.21	
3P	4	SLE Q	-20906.30	0.00	773.07	9.66	144.05	

### Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	2513.38	2.50	15313.10	37582.70	6.093
	2P	1	2580.99	2.50	15313.10	37320.80	5.933

### Numero del nucleo n. 1705

Nodi: 1594 -5528 1595

### Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

### Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-34649.40	2878.53	0.00	-34649.40	3275.96	0.00	1.138	
2P	1	SLU	-32787.10	-773.71	0.00	-32787.10	-3226.21	0.00	4.170	
3P	1	SLU	-35295.50	31.35	0.00	-381658.00	3293.17	0.00	10.813	

### Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>f</sub> <daN/cmq>
1P	2	SLE R	-24790.60	2071.12	0.00	74.52	1107.76	
1P	4	SLE Q	-20744.30	1666.20	0.00	59.57	849.40	
2P	2	SLE R	-23475.60	-555.90	0.00	19.43	217.01	
2P	4	SLE Q	-19588.90	-446.16	0.00	15.89	178.69	
3P	2	SLE R	-25268.50	0.00	536.55	11.06	165.35	
3P	4	SLE Q	-20946.40	0.00	472.57	9.21	137.68	

### Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2506.73	2.50	15313.10	37669.90	6.109
2	T	1	2675.57	2.50	15313.10	37305.50	5.723



Numero del nucleo n. 1788

Nodi: -5589 -5596 -5602 -5610

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P		1SLU	-24317.80	0.00	3723.72	-24317.80	0.00	46562.30	12.504
	2T		1SLU	-25993.90	-1154.61	0.00	-25993.90	-3325.85	0.00	2.881
	3P		1SLU	-11312.20	877.87	0.00	-11312.20	2921.44	0.00	3.328

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
	1P		2SLE R	-17460.90	0.00	2645.65	9.49	140.39
	1P		4SLE Q	-14417.90	0.00	2235.81	7.89	116.82
	2T		2SLE R	-18584.60	-824.81	0.00	23.15	203.66
	2T		4SLE Q	-15177.60	-674.30	0.00	18.93	166.41
	3P		2SLE R	-8118.87	621.82	0.00	19.61	265.79
	3P		4SLE Q	-6714.54	500.49	0.00	15.71	205.85

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K<sub>2</sub>	Φ<sub>eq</sub>	Δ<sub>sm</sub> <mm>	A<sub>s</sub> <cm<sup>q</sup>>	A<sub>c</sub> eff <cm<sup>q</sup>>	σ<sub>s</sub> <daN/cm<sup>q</sup>>	ε<sub>sm</sub>	W<sub>k</sub> <mm>
	2T		4SLE Q	-15177.60	0.00	5693.10	31.00	70.00	0.50	8.00	145.39	1.01	104.80	22.90	0.01	0.00
	2T		3SLE F	-16107.70	0.00	6065.90	31.00	70.00	0.50	8.00	146.92	1.01	106.72	24.97	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 4185.26	2.50	17295.40	40307.20	4.132
	2T		1 1193.08	2.50	17295.40	40562.20	14.496

Numero del nucleo n. 1796

Nodi: -5586 -5587 -5588

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P		1SLU	-13215.50	-159.88	0.00	-13215.50	-2694.20	0.00	16.851
	2T		1SLU	-8927.75	0.00	2316.37	-8927.75	0.00	32433.70	14.002
	3P		1SLU	-6965.03	-238.31	0.00	-6965.03	-2520.62	0.00	10.577

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
	1P		2SLE R	-9572.44	-115.35	0.00	5.93	73.59
	1P		4SLE Q	-7912.95	-94.17	0.00	4.88	60.68
	2T		2SLE R	-6419.65	0.00	1689.01	5.19	76.16
	2T		4SLE Q	-5206.06	0.00	1411.07	4.27	62.68
	3P		2SLE R	-5048.31	-171.55	0.00	5.37	54.37
	3P		4SLE Q	-4178.14	-139.86	0.00	4.39	44.67

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 2944.59	2.50	15313.10	34417.60	5.200
	2P		1 2728.07	2.50	15313.10	33848.80	5.613

Numero del nucleo n. 1798



Relazione di calcolo

Nodi: -5586 -5594 -5600 -5607

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
	1P	1	SLU	-22347.50	0.00	3869.24	-22347.50	0.00	45804.00	11.838
	2T	1	SLU	-23780.10	-1103.70	0.00	-23780.10	-3265.42	0.00	2.959
	3P	1	SLU	-9175.71	982.92	0.00	-9175.71	2862.05	0.00	2.912

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σc	σf
				<daN>	<daNm>	<daNm>	<daN/cm²>	<daN/cm²>
	1P	2	SLE R	-16038.10	0.00	2773.23	9.13	134.94
	1P	4	SLE Q	-13309.60	0.00	2356.51	7.64	112.94
	2T	2	SLE R	-16995.60	-788.80	0.00	22.32	190.37
	2T	4	SLE Q	-13944.00	-644.83	0.00	18.23	155.92
	3P	2	SLE R	-6579.06	699.55	0.00	23.12	421.94
	3P	4	SLE Q	-5515.97	564.94	0.00	18.59	330.53

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N	My	Mz	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
				<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
	2T	4	SLE Q	-13944.00	0.00	5489.24	31.00	70.00	0.50	8.00	159.48	1.01	122.50	28.55	0.01	0.00
	2T	3	SLE F	-14778.40	0.00	5842.84	31.00	70.00	0.50	8.00	159.48	1.01	122.50	31.03	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
	1P	1	3864.84	2.50	17295.40	40007.50	4.475
	2P	1	471.25	2.50	17295.40	40317.90	36.701

Numero del nucleo n. 1799

Nodi: -5588 -5595 -5601 -5609

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
	1P	1	SLU	-30088.80	237.28	0.00	-429421.00	3436.76	0.00	14.272
	2T	1	SLU	-31439.90	1203.91	0.00	-31439.90	3473.01	0.00	2.885
	3P	1	SLU	-15845.00	-766.53	0.00	-15845.00	-3047.04	0.00	3.975

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σc	σf
				<daN>	<daNm>	<daNm>	<daN/cm²>	<daN/cm²>
	1P	2	SLE R	-21630.00	169.74	0.00	10.47	136.93
	1P	4	SLE Q	-17925.20	138.79	0.00	8.65	113.25
	2T	2	SLE R	-22524.30	863.80	0.00	23.90	229.09
	2T	4	SLE Q	-18468.70	709.25	0.00	19.63	187.98
	3P	2	SLE R	-11366.10	-542.88	0.00	15.45	129.06
	3P	4	SLE Q	-9390.09	-433.02	0.00	12.24	104.85

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N	My	Mz	c	s	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub>	A <sub>s</sub>	A <sub>c eff</sub>	σ <sub>s</sub>	ε <sub>sm</sub>	W <sub>k</sub>
				<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
	2T	4	SLE Q	-18468.70	0.00	6785.41	31.00	70.00	0.50	8.00	137.43	1.01	94.79	24.04	0.01	0.00
	2T	3	SLE F	-19584.20	0.00	7191.64	31.00	70.00	0.50	8.00	137.24	1.01	94.55	25.40	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
	1P	1	11134.20	2.50	17295.40	41185.10	1.553
	2T	1	7843.10	2.50	17295.40	41390.70	2.205



Numero del nucleo n. 1800

Nodi: -5591 -5597 -5603 -5612

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P		1SLU	-27189.80	236.20	0.00	-27189.80	3358.43	0.00	14.219
	2T		1SLU	-28321.10	1183.66	0.00	-28321.10	3389.08	0.00	2.863
	3P		1SLU	-13445.40	-720.23	0.00	-13445.40	-2980.72	0.00	4.139

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm²>	σ <sub>t</sub> <daN/cm²>
	1P		2SLE R	-19512.80	168.65	0.00	9.69	125.37
	1P		4SLE Q	-16218.90	137.81	0.00	8.02	103.92
	2T		2SLE R	-20252.60	847.91	0.00	23.61	215.50
	2T		4SLE Q	-16649.20	698.11	0.00	19.44	177.30
	3P		2SLE R	-9635.30	-508.43	0.00	14.79	114.32
	3P		4SLE Q	-8028.91	-400.41	0.00	11.50	92.98

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm²>	A <sub>c eff</sub> <cm²>	σ <sub>s</sub> <daN/cm²>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
	2T		4SLE Q	-16649.20	0.00	6364.92	31.00	70.00	0.50	8.00	152.77	1.01	114.06	28.49	0.01	0.00
	2T		3SLE F	-17640.60	0.00	6743.22	31.00	70.00	0.50	8.00	152.73	1.01	114.01	30.17	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 9517.31	2.50	17295.40	40744.10	1.817
	2P		1 6498.57	2.50	17295.40	41008.60	2.661

Numero del nucleo n. 1801

Nodi: -5589 -5590 -5591

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P		1SLU	-12319.10	-149.01	0.00	-12319.10	-2669.32	0.00	17.914
	2P		1SLU	-8955.54	147.39	0.00	-8955.54	2576.10	0.00	17.479
	3P		1SLU	-6468.85	-224.02	0.00	-6468.85	-2506.75	0.00	11.190

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm²>	σ <sub>t</sub> <daN/cm²>
	1P		2SLE R	-8925.88	-107.24	0.00	5.53	68.58
	1P		4SLE Q	-7371.87	-87.58	0.00	4.55	56.51
	2P		2SLE R	-6470.77	106.52	0.00	4.52	53.56
	2T		2SLE R	-6056.02	0.00	1040.95	4.05	59.69
	2P		4SLE Q	-5318.10	86.30	0.00	3.69	43.85
	3P		2SLE R	-4693.85	-160.91	0.00	5.03	50.78
	3P		4SLE Q	-3884.45	-131.14	0.00	4.11	41.70

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 2112.32	2.50	15313.10	34281.60	7.249
	2T		1 1968.41	2.50	15313.10	33689.40	7.779



Numero del nucleo n. 1804

Nodi: -5607 -5608 -5609

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1	P	1 SLU	-35186.00	54.93	0.00	-381658.00	3290.25	0.00	10.847
	2	T	1 SLU	-32103.60	-3116.85	0.00	-32103.60	-3207.88	0.00	1.029
	3	P	1 SLU	-23136.90	2899.89	0.00	-23136.90	2966.62	0.00	1.023

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
	1	P	2 SLE R	-25211.10	0.00	909.69	11.61	173.21
	1	P	4 SLE Q	-20906.30	0.00	773.07	9.66	144.05
	2	T	2 SLE R	-22984.00	-2250.42	0.00	82.77	1417.41
	2	T	4 SLE Q	-18907.20	-1819.73	0.00	66.79	1128.34
	3	P	2 SLE R	-16496.70	2087.26	0.00	78.78	1588.99
	3	P	4 SLE Q	-13666.50	1674.31	0.00	63.02	1249.42

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1	P	1 2385.80	2.50	15313.10	37751.30	6.418
	2	P	1 2354.18	2.50	15313.10	37365.40	6.505

Numero del nucleo n. 1805

Nodi: -5610 -5611 -5612

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1	P	1 SLU	-35295.50	31.35	0.00	-381658.00	3293.17	0.00	10.813
	2	T	1 SLU	-31804.30	-2769.01	0.00	-31804.30	-3199.85	0.00	1.156
	3	P	1 SLU	-23187.30	2566.11	0.00	-23187.30	2967.99	0.00	1.157

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
	1	P	2 SLE R	-25268.50	0.00	536.55	11.06	165.35
	1	P	4 SLE Q	-20946.40	0.00	472.57	9.21	137.68
	2	T	2 SLE R	-22746.80	-1994.19	0.00	72.27	1126.28
	2	T	4 SLE Q	-18697.00	-1606.41	0.00	58.05	887.32
	3	P	2 SLE R	-16515.50	1842.04	0.00	68.74	1289.46
	3	P	4 SLE Q	-13668.50	1470.40	0.00	54.67	1001.72

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1	P	1 2509.18	2.50	15313.10	37767.90	6.103
	2	P	1 2447.80	2.50	15313.10	37320.00	6.256

Numero del nucleo n. 1888

Nodi: -6276 -6283 -6289 1794

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94



Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
	1P	1	SLU	-11312.20	877.87	0.00	-11312.20	2921.44	0.00	3.328
	2T	1	SLU	-11826.00	0.00	3310.96	-11826.00	0.00	41635.10	12.575
	3P	1	SLU	-10372.30	-334.34	0.00	-10372.30	-2895.32	0.00	8.660

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
	1P	2	SLE R	-8118.87	621.82	0.00	19.61	265.79
	1P	4	SLE Q	-6714.54	500.49	0.00	15.71	205.85
	2T	2	SLE R	-8399.56	0.00	2344.01	5.86	86.22
	2T	4	SLE Q	-6770.92	0.00	1867.47	4.70	69.11
	3P	2	SLE R	-7335.32	-237.46	0.00	6.65	68.55
	3P	2	SLE R	-7335.32	0.00	2525.03	5.73	84.06
	3P	4	SLE Q	-5913.62	-191.43	0.00	5.36	55.26

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm <sup>2</sup> >	A <sub>c eff</sub> <cm <sup>2</sup> >	$\sigma_s$ <daN/cm <sup>2</sup> >	$\epsilon_{sm}$	W <sub>k</sub> <mm>
	3P	4	SLE Q	-5913.62	0.00	2097.50	31.00	70.00	0.50	8.00	124.12	1.01	78.06	5.79	0.00	0.00
	3P	3	SLE F	-6277.84	0.00	2205.79	31.00	70.00	0.50	8.00	120.60	1.01	73.64	5.64	0.00	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	1132.35	2.50	17295.40	38328.80	15.274
	2P	1	3486.01	2.50	17295.40	38499.40	4.961

Numero del nucleo n. 1896

Nodi: -6273 -6274 -6275

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
	1P	1	SLU	-6965.03	-238.31	0.00	-6965.03	-2520.62	0.00	10.577
	2P	1	SLU	-4096.61	258.55	0.00	-4096.61	2440.52	0.00	9.439
	3P	1	SLU	-3938.43	-190.48	0.00	-3938.43	-2436.13	0.00	12.789

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_f$ <daN/cm <sup>2</sup> >
	1P	2	SLE R	-5048.31	-171.55	0.00	5.37	54.37
	1P	4	SLE Q	-4178.14	-139.86	0.00	4.39	44.67
	2P	2	SLE R	-2964.77	185.51	0.00	6.32	63.10
	2P	4	SLE Q	-2462.11	149.04	0.00	5.04	47.24
	3P	2	SLE R	-2830.99	-136.78	0.00	4.39	36.38
	3P	4	SLE Q	-2324.62	-110.71	0.00	3.54	29.68

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cm <sup>2</sup> >	A <sub>c eff</sub> <cm <sup>2</sup> >	$\sigma_s$ <daN/cm <sup>2</sup> >	$\epsilon_{sm}$	W <sub>k</sub> <mm>
	2T	4	SLE Q	-2047.36	0.00	1062.09	31.00	94.38	0.50	8.00	205.49	1.01	180.32	25.90	0.01	0.00
	2T	3	SLE F	-2183.12	0.00	1117.22	31.00	94.38	0.50	8.00	202.75	1.01	176.87	26.33	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	2298.71	2.50	17500.70	33469.20	7.613
	2P	1	1903.45	2.50	17500.70	33033.90	9.194

Numero del nucleo n. 1898

Nodi: -6273 -6281 -6287 1790



Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	1	SLU	-9175.71	982.92	0.00	-9175.71	2862.05	0.00	2.912
2	P	1	SLU	-10808.60	-258.07	0.00	-10808.60	-2907.46	0.00	11.266
3	P	1	SLU	-8970.80	-332.85	0.00	-8970.80	-2856.32	0.00	8.581

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	$\sigma_c$	$\sigma_f$
				<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
1	P	2	SLE R	-6579.06	699.55	0.00	23.12	421.94
1	P	4	SLE Q	-5515.97	564.94	0.00	18.59	330.53
2	P	2	SLE R	-7697.02	-184.28	0.00	5.69	63.45
2	T	2	SLE R	-7229.77	0.00	2094.84	5.14	75.56
2	P	4	SLE Q	-6327.27	-146.96	0.00	4.60	51.61
3	P	2	SLE R	-6321.58	-236.49	0.00	6.54	63.48
3	P	2	SLE R	-6321.58	0.00	2846.20	6.02	87.97
3	P	4	SLE Q	-5106.81	-190.87	0.00	5.28	51.26

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N	My	Mz	c	s	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$	A <sub>s</sub>	A <sub>c eff</sub>	$\sigma_s$	$\epsilon_{sm}$	W <sub>k</sub>
				<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	P	4	SLE Q	-5106.81	0.00	2370.17	31.00	95.00	0.50	8.00	167.47	1.01	132.54	23.71	0.01	0.00
3	P	3	SLE F	-5414.78	0.00	2492.95	31.00	95.00	0.50	8.00	165.42	1.01	129.96	24.27	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
1	P	1	29.85	2.50	17295.40	38003.80	579.437
2	T	1	2665.06	2.50	17295.40	38159.80	6.490

Numero del nucleo n. 1899

Nodi: -6275 -6282 -6288 1791

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	1	SLU	-15845.00	-766.53	0.00	-15845.00	-3047.04	0.00	3.975
2	T	1	SLU	-16622.60	0.00	3927.89	-16622.60	0.00	43573.60	11.093
3	P	1	SLU	-14983.10	339.39	0.00	-14983.10	3023.29	0.00	8.908

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	$\sigma_c$	$\sigma_f$
				<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
1	P	2	SLE R	-11366.10	-542.88	0.00	15.45	129.06
1	P	4	SLE Q	-9390.09	-433.02	0.00	12.24	104.85
2	T	2	SLE R	-11860.00	0.00	2781.31	7.63	112.52
2	T	4	SLE Q	-9627.70	0.00	2213.94	6.14	90.58
3	P	2	SLE R	-10681.60	240.53	0.00	7.65	86.23
3	P	4	SLE Q	-8676.04	193.33	0.00	6.18	69.80

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
1	P	1	5512.89	2.50	17295.40	39018.30	3.137
2	P	1	8592.68	2.50	17295.40	39229.10	2.013

Numero del nucleo n. 1900

Nodi: -6278 -6284 -6290 1795



Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-13445.40	-720.23	0.00	-13445.40	-2980.72	0.00	4.139
2	T	1	SLU	-14394.30	0.00	3384.67	-14394.30	0.00	42695.70	12.614
3	P	1	SLU	-13179.60	335.50	0.00	-13179.60	2973.34	0.00	8.862

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1	P	2	SLE R	-9635.30	-508.43	0.00	14.79	114.32
1	P	4	SLE Q	-8028.91	-400.41	0.00	11.50	92.98
2	T	2	SLE R	-10245.00	0.00	2393.75	6.58	97.05
2	T	4	SLE Q	-8334.57	0.00	1911.09	5.31	78.32
3	P	2	SLE R	-9370.14	237.94	0.00	7.16	78.92
3	P	4	SLE Q	-7608.52	191.70	0.00	5.79	63.90

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	4260.45	2.50	17295.40	38653.30	4.060
2	P	1	6837.75	2.50	17295.40	38890.10	2.529

Numero del nucleo n. 1901

Nodi: -6276 -6277 -6278

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-6468.85	-224.02	0.00	-6468.85	-2506.75	0.00	11.190
2	P	1	SLU	-3908.34	234.00	0.00	-3908.34	2435.25	0.00	10.407
3	P	1	SLU	-3752.88	-172.73	0.00	-3752.88	-2430.84	0.00	14.073

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm>	σ <sub>t</sub> <daN/cm>
1	P	2	SLE R	-4693.85	-160.91	0.00	5.03	50.78
1	P	4	SLE Q	-3884.45	-131.14	0.00	4.11	41.70
2	P	2	SLE R	-2833.74	167.47	0.00	5.63	50.26
2	P	4	SLE Q	-2354.83	134.12	0.00	4.47	36.81
3	P	2	SLE R	-2698.27	-123.67	0.00	3.93	33.82
3	P	4	SLE Q	-2215.86	-99.84	0.00	3.16	27.54

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cm>	A <sub>c eff</sub> <cm>	σ <sub>s</sub> <daN/cm>	ε <sub>sm</sub>	W <sub>k</sub> <mm>
2	T	4	SLE Q	-1940.08	0.00	690.94	31.00	70.00	0.50	8.00	159.34	1.01	122.32	4.89	0.00	0.00
2	T	3	SLE F	-2069.34	0.00	724.84	31.00	70.00	0.50	8.00	153.50	1.01	114.99	4.74	0.00	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1659.13	2.50	17500.70	33393.90	10.548
2	P	1	1387.40	2.50	17500.70	33005.40	12.614

Numero del nucleo n. 1904

Nodi: 1790 -6292 1791

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
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Relazione di calcolo

14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
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Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-23136.90	2899.89	0.00	-23136.90	2966.62	0.00	1.023
2	P	1	SLU	-20694.20	-779.52	0.00	-20694.20	-2899.90	0.00	3.720
3	P	1	SLU	-22644.00	62.46	0.00	-381658.00	2953.19	0.00	16.855

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_t$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-16496.70	2087.26	0.00	78.78	1588.99
1	P	4	SLE Q	-13666.50	1674.31	0.00	63.02	1249.42
2	P	2	SLE R	-14737.10	-558.66	0.00	17.40	167.74
2	P	4	SLE Q	-12102.40	-445.42	0.00	13.87	135.68
3	P	2	SLE R	-16128.00	0.00	630.84	7.50	111.88
3	P	4	SLE Q	-13115.30	0.00	487.61	6.06	90.42

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2948.83	2.50	15313.10	35923.00	5.193
2	T	1	2997.26	2.50	15313.10	35470.60	5.109

Numero del nucleo n. 1905

Nodi: 1794 -6293 1795

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-23187.30	2566.11	0.00	-23187.30	2967.99	0.00	1.157
2	P	1	SLU	-20777.10	-677.23	0.00	-20777.10	-2902.17	0.00	4.285
3	P	1	SLU	-22522.60	33.06	0.00	-381658.00	2949.91	0.00	16.946

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cm <sup>2</sup> >	$\sigma_t$ <daN/cm <sup>2</sup> >
1	P	2	SLE R	-16515.50	1842.04	0.00	68.74	1289.46
1	P	4	SLE Q	-13668.50	1470.40	0.00	54.67	1001.72
2	P	2	SLE R	-14786.70	-483.56	0.00	15.22	156.32
2	P	4	SLE Q	-12137.60	-382.48	0.00	12.12	126.08
3	P	2	SLE R	-16031.80	20.53	0.00	6.86	100.17
3	P	4	SLE Q	-13030.40	11.62	0.00	5.49	80.74

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg $\theta$	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1345.18	2.50	15313.10	35930.70	11.384
2	P	1	1414.02	2.50	15313.10	35565.00	10.829

Numero del nucleo n. 1988

Nodi: -6354 -6361 -6367 -6375

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-10372.30	-334.34	0.00	-10372.30	-2895.32	0.00	8.660
2	T	1	SLU	-13508.80	-1482.46	0.00	-13508.80	-2982.43	0.00	2.012

Stato limite d'esercizio - Verifiche tensionali



Relazione di calcolo

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1P	2	SLE	R	-7335.32	-237.46	0.00	6.65	68.55
1P	2	SLE	R	-7335.32	0.00	2525.03	5.73	84.06
1P	4	SLE	Q	-5913.62	-191.43	0.00	5.36	55.26
2T	2	SLE	R	-9459.23	-1045.36	0.00	34.68	649.40
2T	4	SLE	Q	-7445.38	-836.94	0.00	27.82	526.46

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	$\Phi_{eq}$	$\Delta_{sm}$ <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	$\sigma_s$ <daN/cmq>	$\epsilon_{sm}$	Wk <mm>
1P	4	SLE	Q	-5913.62	0.00	2097.50	31.00	70.00	0.50	8.00	124.12	1.01	78.06	5.79	0.00	0.00
1P	3	SLE	F	-6277.84	0.00	2205.79	31.00	70.00	0.50	8.00	120.60	1.01	73.64	5.64	0.00	0.00
2T	4	SLE	Q	-7445.38	0.00	5823.49	31.00	95.00	0.50	8.00	206.47	1.51	272.33	205.32	0.06	0.02
2T	3	SLE	F	-7965.48	0.00	6234.25	31.00	95.00	0.50	8.00	206.54	1.51	272.45	220.03	0.06	0.02

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	3043.50	2.50	19766.10	38185.80	6.495	
2T	1	38.27	2.50	19766.10	38663.00	516.473	

Numero del nucleo n. 1996

Nodi: -6351 -6352 -6353

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-3938.43	-190.48	0.00	-3938.43	-1937.50	0.00	10.172	
2P	1	SLU	-2862.58	164.90	0.00	-2862.58	1906.26	0.00	11.560	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1P	2	SLE	R	-2830.99	-136.78	0.00	4.60	37.25
1P	4	SLE	Q	-2324.62	-110.71	0.00	3.71	30.40
2P	2	SLE	R	-1995.77	120.56	0.00	4.37	47.02
2T	2	SLE	R	-1581.02	104.84	0.00	3.92	50.33
2P	4	SLE	Q	-1574.51	99.20	0.00	3.65	42.70

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	1323.66	2.50	20417.40	33009.90	15.425
	2P	1	608.25	2.50	20417.40	32846.70	33.567

Numero del nucleo n. 1998

Nodi: -6351 -6359 -6365 -6372

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-8970.80	-332.85	0.00	-8970.80	-2856.32	0.00	8.581
2	T	1	SLU	-12811.90	-1485.05	0.00	-12811.90	-2963.15	0.00	1.995

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	$\sigma_c$ <daN/cmq>	$\sigma_f$ <daN/cmq>
1P	2	SLE	R	-6321.58	-236.49	0.00	6.54	63.48
1P	2	SLE	R	-6321.58	0.00	2846.20	6.02	87.97
1P	4	SLE	Q	-5106.81	-190.87	0.00	5.28	51.26



Relazione di calcolo

2T	2	SLE R	-8954.80	-1046.99	0.00	34.93	677.02
2T	4	SLE Q	-7037.59	-836.93	0.00	27.96	547.40

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
1P	4	SLE Q		-5106.81	0.00	2370.17	31.00	95.00	0.50	8.00	167.47	1.01	132.54	23.71	0.01	0.00
1P	3	SLE F		-5414.78	0.00	2492.95	31.00	95.00	0.50	8.00	165.42	1.01	129.96	24.27	0.01	0.00
2P	4	SLE Q		-7504.84	0.00	6290.11	31.00	95.00	0.50	8.00	175.19	2.01	284.47	246.87	0.07	0.02
2P	3	SLE F		-7998.14	0.00	6687.40	31.00	95.00	0.50	8.00	175.03	2.01	284.07	261.53	0.08	0.02

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		1900.02	2.50	17295.40	37972.60	9.103
2P	1		1560.43	2.50	17295.40	38649.40	11.084

Numero del nucleo n. 1999

Nodi: -6353 -6360 -6366 -6374

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-14983.10	339.39	0.00	-14983.10	3023.29	0.00	8.908
2T	1	SLU		-16754.50	1573.86	0.00	-16754.50	3072.17	0.00	1.952

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1P	2	SLE R		-10681.60	240.53	0.00	7.65	86.23
1P	4	SLE Q		-8676.04	193.33	0.00	6.18	69.80
2T	2	SLE R		-11832.30	1113.42	0.00	36.26	603.75
2T	4	SLE Q		-9405.58	892.15	0.00	29.08	487.46

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
2T	4	SLE Q		-9405.58	0.00	7956.87	31.00	95.00	0.50	8.00	175.79	2.01	285.99	316.54	0.09	0.03
2T	3	SLE F		-10046.40	0.00	8493.23	31.00	95.00	0.50	8.00	175.75	2.01	285.88	337.55	0.10	0.03

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		9841.18	2.50	17295.40	38887.20	1.757
2T	1		6271.10	2.50	17295.40	39156.70	2.758

Numero del nucleo n. 2000

Nodi: -6356 -6362 -6368 -6377

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-13179.60	335.50	0.00	-13179.60	2973.34	0.00	8.862
2T	1	SLU		-15521.80	1540.83	0.00	-15521.80	3038.10	0.00	1.972

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1P	2	SLE R		-9370.14	237.94	0.00	7.16	78.92
1P	4	SLE Q		-7608.52	191.70	0.00	5.79	63.90



Relazione di calcolo

2T	2	SLE R	-10933.00	1089.29	0.00	35.73	622.45
2T	4	SLE Q	-8656.18	871.02	0.00	28.60	502.01

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cmq>	ε <sub>sm</sub>	Wk <mm>
2T		4	SLE Q	-8656.18	0.00	7231.65	31.00	95.00	0.50	8.00	174.97	2.01	283.93	282.47	0.08	0.02
2T		3	SLE F	-9255.89	0.00	7728.16	31.00	95.00	0.50	8.00	174.94	2.01	283.84	301.61	0.09	0.03

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	7844.18	2.50	17295.40	38612.90	2.205
2P		1	4673.45	2.50	17295.40	39061.60	3.701

Numero del nucleo n. 2001

Nodi: -6354 -6355 -6356

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P		1	SLU	-3752.88	-172.73	0.00	-3752.88	-1932.09	0.00	11.186
2P		1	SLU	-2924.23	140.06	0.00	-2924.23	1908.02	0.00	13.623

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1P		2	SLE R	-2698.27	-123.67	0.00	4.10	34.70
1P		4	SLE Q	-2215.86	-99.84	0.00	3.29	28.27
2P		2	SLE R	-2042.18	102.23	0.00	3.48	27.25
2T		2	SLE R	-1627.43	87.07	0.00	3.03	24.15
2P		4	SLE Q	-1613.61	84.06	0.00	2.90	21.84

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	973.01	2.50	20417.50	32981.80	20.984
2P		1	457.95	2.50	20417.50	32856.10	44.585

Numero del nucleo n. 2004

Nodi: -6372 -6373 -6374

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P		1	SLU	-22644.00	62.46	0.00	-381658.00	2953.19	0.00	16.855
2T		1	SLU	-14060.10	-3407.87	0.00	-14060.10	-2717.48	0.00	0.797

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cmq>	σ <sub>t</sub> <daN/cmq>
1P		2	SLE R	-16128.00	0.00	630.84	7.50	111.88
1P		4	SLE Q	-13115.30	0.00	487.61	6.06	90.42
2T		2	SLE R	-10066.00	-2477.45	0.00	96.73	2456.84
2T		4	SLE Q	-8091.80	-2012.52	0.00	78.60	2001.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	2242.76	2.50	15313.10	35848.20	6.828



Relazione di calcolo

2	T	1	1970.67	2.50	15313.10	34545.70	7.771
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Numero del nucleo n. 2315

Nodi: 166 -7135 -7134 -7136 167

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
50.00	3.70	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-163209.00	-1590.27	0.00	-2132810.00	-31089.70	0.00	13.068

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-116480.00	-1024.26	0.00	8.79	130.00
1	T	2	SLE R	-103430.00	1077.44	0.00	7.94	117.17
1	P	4	SLE Q	-101054.00	-615.12	0.00	7.40	109.94

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	579.43	2.50	50446.70	239511.00	87.062

Numero del nucleo n. 30000

Nodi: 151 -7132 -7131 -7133 152

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
20.00	3.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-156887.00	205.95	0.00	-862444.00	9887.58	0.00	5.497
2	P	1	SLU	-140186.00	955.88	0.00	-862442.00	9152.51	0.00	6.152
3	P	1	SLU	-110974.00	-1277.11	0.00	-110974.00	-7779.11	0.00	6.091

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ<sub>c</sub> <daN/cm<sup>q</sup>>	σ<sub>t</sub> <daN/cm<sup>q</sup>>
1	P	2	SLE R	-110829.00	0.00	3004.85	19.86	297.50
1	P	4	SLE Q	-94550.10	202.38	0.00	17.07	250.80
2	T	2	SLE R	-97512.60	894.05	0.00	21.08	293.03
2	T	4	SLE Q	-82803.60	667.61	0.00	17.43	244.24
3	P	2	SLE R	-78228.70	-903.45	0.00	17.85	244.42
3	P	4	SLE Q	-66758.60	-664.89	0.00	14.70	203.26

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1824.90	2.50	37874.70	107367.00	20.754
2	P	1	2066.07	2.50	37874.70	107367.00	18.332

Numero del nucleo n. 31000

Nodi: 251 -7092 -262 -7096 252

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm<sup>q</sup>>	Fctm <daN/cm<sup>q</sup>>	Fcd <daN/cm<sup>q</sup>>	Fcd (Tag) <daN/cm<sup>q</sup>>	Fctd <daN/cm<sup>q</sup>>	Fym <daN/cm<sup>q</sup>>	Fyd <daN/cm<sup>q</sup>>	Fyd (Tag) <daN/cm<sup>q</sup>>
20.00	3.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
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Relazione di calcolo

			<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1P	1	SLU	-110974.00	-1277.11	0.00	-110974.00	-7779.11	0.00	6.091
2P	1	SLU	-65084.10	-561.45	0.00	-65084.10	-5433.11	0.00	9.677

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm <sup>2</sup> >	σ <sub>t</sub> <daN/cm <sup>2</sup> >
1P	2	SLE R		-78228.70	-903.45	0.00	17.85	244.42
1P	4	SLE Q		-66758.60	-664.89	0.00	14.70	203.26
2P	2	SLE R		-45863.70	-393.43	0.00	9.78	136.47
2P	4	SLE Q		-39174.30	-282.13	0.00	8.08	113.86

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		2147.65	2.50	37874.70	102912.00	17.635
2P	1		1689.56	2.50	37874.70	95874.20	22.417

Numero del nucleo n. 40000

Nodi: 44 -7140 -7138 -7139 45

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
20.00	3.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-159240.00	-621.21	0.00	-891415.00	-10061.00	0.00	5.598
2T	1	SLU		-138573.00	1645.34	0.00	-138573.00	9139.90	0.00	5.555
3P	1	SLU		-109656.00	-1561.88	0.00	-109656.00	-7757.48	0.00	4.967

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm <sup>2</sup> >	σ <sub>t</sub> <daN/cm <sup>2</sup> >
1P	2	SLE R		-112363.00	-396.00	0.00	20.38	295.82
1P	4	SLE Q		-95731.20	-208.18	0.00	16.73	245.76
2T	2	SLE R		-97580.80	1153.06	0.00	21.66	296.16
2T	4	SLE Q		-82736.80	835.52	0.00	17.67	244.21
3P	2	SLE R		-77218.80	-1103.77	0.00	18.08	243.64
3P	4	SLE Q		-65979.10	-806.88	0.00	14.78	201.57

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		1797.57	2.50	39196.20	111113.00	21.805
2P	1		1837.76	2.50	39196.20	110449.00	21.328

Numero del nucleo n. 41000

Nodi: 244 -7105 -261 -7100 245

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm <sup>2</sup> >	Fctm <daN/cm <sup>2</sup> >	Fcd <daN/cm <sup>2</sup> >	Fcd (Tag) <daN/cm <sup>2</sup> >	Fctd <daN/cm <sup>2</sup> >	Fym <daN/cm <sup>2</sup> >	Fyd <daN/cm <sup>2</sup> >	Fyd (Tag) <daN/cm <sup>2</sup> >
20.00	3.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-109656.00	-1561.88	0.00	-109656.00	-7757.48	0.00	4.967
2P	1	SLU		-64441.10	-641.81	0.00	-64441.10	-5426.22	0.00	8.455

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ <sub>c</sub> <daN/cm <sup>2</sup> >	σ <sub>t</sub> <daN/cm <sup>2</sup> >
1P	2	SLE R		-77218.80	-1103.77	0.00	18.08	243.64
1P	4	SLE Q		-65979.10	-806.88	0.00	14.78	201.57
2P	2	SLE R		-45358.20	-447.71	0.00	9.64	133.38
2P	4	SLE Q		-38789.80	-315.24	0.00	7.91	110.78



Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	1795.36	2.50	39196.20	105713.00	21.832
	2P	1	1535.46	2.50	39196.20	98776.60	25.527

Verifiche e armature solette/platee

Simbologia

$\Delta_{sm}$	=Distanza media tra le fessure
$\Phi_{eq}$	=Diametro equivalente delle barre
$\epsilon_{sm}$	=Deformazione unitaria media dell'armatura (*1000)
$\sigma_c$	=Tensione nel calcestruzzo
$\sigma_f$	=Tensione nel ferro
$\sigma_s$	=Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$	=Area di calcestruzzo efficace
$A_s$	=Area complessiva dei ferri nell'area di calcestruzzo efficace
AfE I	=Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfE S	=Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE St.	=Area di ferro effettiva della staffatura
CC	=Numero della combinazione delle condizioni di carico elementari
Cf inf	=Copriferro inferiore
Cf sup	=Copriferro superiore
DV	=Direzione di verifica XX = Verifica per momento Mxx YY = Verifica per momento Myy
Fcd	=Resistenza di calcolo a compressione del calcestruzzo
Fcd (Tag)	=Resistenza di calcolo a compressione del calcestruzzo per verifica a taglio
Fcm	=Resistenza media
Fctd	=Resistenza di calcolo a trazione del calcestruzzo
Fctm	=Resistenza media a trazione
Fyd	=Resistenza di calcolo dell'acciaio
Fyd (Tag)	=Resistenza di calcolo dell'acciaio per verifica a taglio
Fym	=Tensione media di snervamento
K <sub>2</sub>	=Coefficiente per distribuzione deformazioni
MRdy	=Momento resistente allo stato limite ultimo intorno all'asse Y
Mom	=Momento flettente
My	=Momento flettente intorno all'asse Y
Nodo	=Numero del nodo
Sic.	=Sicurezza
Spess.	=Spessore
TCC	=Tipo di combinazione di carico SLU = Stato limite ultimo SLE R = Stato limite d'esercizio, combinazione rara SLE F = Stato limite d'esercizio, combinazione frequente SLE Q = Stato limite d'esercizio, combinazione quasi permanente
VRcd	=Taglio ultimo lato calcestruzzo
VRsd	=Taglio ultimo lato armatura
Vrdu	=Taglio ultimo resistente
Vsdu	=Taglio agente nella direzione del momento ultimo
Wk	=Ampiezza caratteristica delle fessure
X	=Coordinata X del nodo
Y	=Coordinata Y del nodo
c	=Ricoprimento dell'armatura
s	=Distanza massima tra le barre

Armatura platea a quota -3.60

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
70.00	3.00	3.00	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	My	MRdy	Sic.
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daNm>	
-9	54.14	4.66	XX	1	SLU	15.71	15.71	32688.30	37122.40	1.136
-34	50.68	7.55	XX	1	SLU	15.71	15.71	-41519.40	-37122.40	0.894
-42	50.68	8.66	YY	1	SLU	15.71	15.71	33345.70	37122.40	1.113
-5	50.68	4.66	YY	1	SLU	15.71	15.71	-51571.00	-37122.40	0.720

Stato limite ultimo - Verifiche a taglio

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	AfE St.	Vsdu	VRcd	VRsd	Vrdu	Sic. T
	<m>	<m>				<cmq>	<cmq>	<cmq/m>	<daN>	<daN>	<daN>	<daN>	



Relazione di calcolo

-8	53.47	4.66	XX	1	SLU	15.71	15.71	78.54	106662.00	263750.00	147569.00	147569.00	1.38
-27	50.68	6.96	YY	1	SLU	15.71	15.71	78.54	113547.00	263750.00	147569.00	147569.00	1.30

Stato limite d'esercizio - Verifiche tensionali

Nodo	X <m>	Y <m>	DV	CC	TCC	A <sub>fE</sub> S <cmq>	A <sub>fE</sub> I <cmq>	Mom <daNm>	σ <sub>c</sub> <daN/cm <sup>2</sup> >	σ <sub>f</sub> <daN/cm <sup>2</sup> >
-9	54.14	4.66	XX	2	SLE R	15.71	15.71	23413.20	42.08	2378.47
-9	54.14	4.66	XX	4	SLE Q	15.71	15.71	20552.10	36.94	2087.82
-34	50.68	7.55	XX	2	SLE R	15.71	15.71	-29605.30	53.21	3007.50
-34	50.68	7.55	XX	4	SLE Q	15.71	15.71	-24906.90	44.76	2530.21
-42	50.68	8.66	YY	2	SLE R	15.71	15.71	23917.60	42.99	2429.71
-42	50.68	8.66	YY	4	SLE Q	15.71	15.71	20398.60	36.66	2072.22
-5	50.68	4.66	YY	2	SLE R	15.71	15.71	-36920.70	66.36	3750.65
-5	50.68	4.66	YY	4	SLE Q	15.71	15.71	-32194.70	57.86	3270.55

Stato limite d'esercizio - Verifiche a fessurazione

Nodo	X <m>	Y <m>	DV	CC	TCC	c <mm>	s <mm>	K <sub>2</sub>	Φ <sub>eq</sub>	Δ <sub>sm</sub> <mm>	A <sub>s</sub> <cmq>	A <sub>c eff</sub> <cmq>	σ <sub>s</sub> <daN/cm <sup>2</sup> >	ε <sub>sm</sub>	W <sub>k</sub> <mm>
-9	54.14	4.66	XX	4	SLE Q	20.00	200.00	0.50	20.00	419.62	18.85	904.51	2087.82	0.71	0.51
-9	54.14	4.66	XX	3	SLE F	20.00	200.00	0.50	20.00	419.62	18.85	904.51	2169.94	0.63	0.45
-34	50.68	7.55	XX	4	SLE Q	20.00	200.00	0.50	20.00	419.62	18.85	904.51	2530.21	0.93	0.66
-34	50.68	7.55	XX	3	SLE F	20.00	200.00	0.50	20.00	419.62	18.85	904.51	2664.39	0.84	0.60
-42	50.68	8.66	YY	4	SLE Q	20.00	200.00	0.50	20.00	419.62	18.85	904.51	2072.22	0.71	0.50
-42	50.68	8.66	YY	3	SLE F	20.00	200.00	0.50	20.00	419.62	18.85	904.51	2172.99	0.63	0.45
-5	50.68	4.66	YY	4	SLE Q	20.00	200.00	0.50	20.00	419.62	18.85	904.51	3270.55	1.29	0.92
-5	50.68	4.66	YY	3	SLE F	20.00	200.00	0.50	20.00	419.62	18.85	904.51	3406.02	1.20	0.86

Sintesi

Tipo di normativa: stati limite D.M. 18  
Tipo di calcolo: statico

Dati generali della struttura

- Sito di costruzione: firenze via accademia del cimento 14 LON. 11.22590 LAT. 43.79910  
Contenuto tra ID reticolo: 19836 19837 20058 20059
- Edificio esistente: Si
- Tipo di opera: Opera ordinaria
- Vita nominale V<sub>N</sub>: 50.00
- Classe d'uso: Classe II
- Coefficiente d'uso CU: 1.00
- Periodo di riferimento VR: 50.00

Condizioni di carico elementari

Simbologia

- CCE = Numero della condizione di carico elementare  
Comm. = Commento  
Dir. = Direzione del vento  
Jpx = Moltiplicatore del momento d'inerzia intorno all'asse X  
Jpy = Moltiplicatore del momento d'inerzia intorno all'asse Y  
Jpz = Moltiplicatore del momento d'inerzia intorno all'asse Z  
Mx = Moltiplicatore della massa in dir. X  
My = Moltiplicatore della massa in dir. Y  
Mz = Moltiplicatore della massa in dir. Z  
Sic. = Contributo alla sicurezza  
S = a sfavore  
Tipo = Tipologia di pressione vento  
M = Massimizzata  
E = Esterna  
I = Interna  
Tipo CCE = Tipo di CCE per calcolo agli stati limite  
Var. = Tipo di variabilità  
B = di base  
s = Coeff. di riduzione (T.A. o S.L. D.M. 96)

CCE	Comm.	Tipo CCE	Sic.	Var.	s	Dir. <grad>	Tipo	Mx	My	Mz	Jpx	Jpy	Jpz
1	Permanenti strutturali	20	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
2	Permanenti non strutturali	21	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
3	Variabili Civile Abitazione	22	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
4	Variabili neve	31	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
5	Scale perm non strutturale	21	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
6	scale variabile	22	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00

Elenco baricentri e masse impalcati

Simbologia



Relazione di calcolo

Imp. = Numero dell'impalcato  
Jpz = Massa rotazionale intorno all'asse Z  
Mo = Massa orizzontale  
X = Coordinata X  
Y = Coordinata Y  
Z = Coordinata Z

Imp.	X	Y	Z	Mo	Jpz	Imp.	X	Y	Z	Mo	Jpz
	<m>	<m>	<m>	<kg>	<kg*mq>		<m>	<m>	<m>	<kg>	<kg*mq>
2	41.35	12.16	2.00	20706.70	2632870.00	3	40.38	6.45	3.50	505534.00	85753700.00
4	41.42	10.42	5.00	25468.60	3375190.00	5	40.41	6.35	6.50	480511.00	82160400.00
6	41.42	10.42	8.00	25468.60	3375190.00	7	40.41	6.35	9.50	480511.00	82160400.00
8	41.42	10.42	11.00	25468.60	3375190.00	9	40.41	6.35	12.50	480511.00	82160400.00
10	41.42	10.42	14.00	25468.60	3375190.00	11	40.40	6.35	15.50	476164.00	81439800.00
12	41.42	10.37	17.00	24933.40	3304110.00	13	40.39	6.34	18.50	471817.00	80719000.00
14	41.42	10.37	20.00	24933.40	3304110.00	15	40.39	6.34	21.50	471817.00	80719000.00
16	41.42	10.37	23.00	24933.40	3304110.00	17	40.39	6.34	24.50	471817.00	80719000.00
18	41.30	10.39	26.00	25208.60	3334870.00	19	39.92	6.43	27.50	446080.00	72193900.00

Totali masse impalcati

Mo	Jpz
<kg>	<kg*mq>
4507350.00	757406000.00

Materiali

Cemento armato

Elenco dei criteri di progetto e delle loro principali caratteristiche meccaniche utilizzate:  
Nuclei: 1 Armatura orizzontale con risvolti di estremità  
Pilastri in c.a.: 1 Pilastri rettangolari poco armati  
Travi in c.a.: 1 travi principali

Calcestruzzo

Livello di conoscenza: LC2  
Fattore di confidenza: 1.20  
Tipo di calcestruzzo: C12/15  
Rck calcestruzzo (Rck calcestruzzo): 150.00 <daN/cm<sup>q</sup>>  
Resistenza media (Fcm): 204.50 <daN/cm<sup>q</sup>>  
Resistenza di calcolo a compressione del calcestruzzo (Fcd): 144.85 <daN/cm<sup>q</sup>>  
Resistenza di calcolo a compressione del calcestruzzo per verifica a taglio (Fcd (Tag)): 96.57 <daN/cm<sup>q</sup>>  
Resistenza media a trazione (Fctm): 16.12 <daN/cm<sup>q</sup>>  
Resistenza di calcolo a trazione del calcestruzzo (Fctd): 8.95 <daN/cm<sup>q</sup>>

Acciaio

Livello di conoscenza: LC2  
Fattore di confidenza: 1.20  
Tipo di acciaio: Fe B 44 k  
Tensione media di snervamento (Fym): 4300.00 <daN/cm<sup>q</sup>>  
Resistenza di calcolo dell'acciaio (Fyd): 3583.33 <daN/cm<sup>q</sup>>  
Resistenza di calcolo dell'acciaio per verifica a taglio (Fyd (Tag)): 3115.94 <daN/cm<sup>q</sup>>

Travi in c.a.: 2 cordoli di collegamento  
Travi in c.a.: 3 Travi scale

Calcestruzzo

Livello di conoscenza: LC2  
Fattore di confidenza: 1.20  
Tipo di calcestruzzo: C28/35  
Rck calcestruzzo (Rck calcestruzzo): 350.00 <daN/cm<sup>q</sup>>  
Resistenza media (Fcm): 370.50 <daN/cm<sup>q</sup>>  
Resistenza di calcolo a compressione del calcestruzzo (Fcd): 262.44 <daN/cm<sup>q</sup>>  
Resistenza di calcolo a compressione del calcestruzzo per verifica a taglio (Fcd (Tag)): 174.96 <daN/cm<sup>q</sup>>  
Resistenza media a trazione (Fctm): 28.35 <daN/cm<sup>q</sup>>  
Resistenza di calcolo a trazione del calcestruzzo (Fctd): 15.75 <daN/cm<sup>q</sup>>

Acciaio

Livello di conoscenza: LC2  
Fattore di confidenza: 1.20  
Tipo di acciaio: Fe B 44 k  
Tensione media di snervamento (Fym): 4300.00 <daN/cm<sup>q</sup>>  
Resistenza di calcolo dell'acciaio (Fyd): 3583.33 <daN/cm<sup>q</sup>>



## Relazione di calcolo

Resistenza di calcolo dell'acciaio per verifica a taglio (Fyd (Tag)): 3115.94 <daN/cm²>

Solette/Platee: 1

Calcestruzzo

Livello di conoscenza: LC2  
 Fattore di confidenza: 1.20  
 Tipo di calcestruzzo: C28/35  
 Rck calcestruzzo (Rck calcestruzzo): 350.00 <daN/cm²>  
 Resistenza media (Fcm): 370.50 <daN/cm²>  
 Resistenza di calcolo a compressione del calcestruzzo (Fcd): 262.44 <daN/cm²>  
 Resistenza di calcolo a compressione del calcestruzzo per verifica a taglio (Fcd (Tag)): 174.96 <daN/cm²>  
 Resistenza media a trazione (Fctm): 28.35 <daN/cm²>  
 Resistenza di calcolo a trazione del calcestruzzo (Fctd): 15.75 <daN/cm²>

Acciaio

Livello di conoscenza: LC2  
 Fattore di confidenza: 1.20  
 Tipo di acciaio: Fe B 44 k  
 Tensione media di snervamento (Fym): 4300.00 <daN/cm²>  
 Resistenza di calcolo dell'acciaio (Fyd): 3583.33 <daN/cm²>  
 Resistenza di calcolo dell'acciaio per verifica a taglio (Fyd (Tag)): 3115.94 <daN/cm²>

Carichi

### Simbologia

CCE =Numero della condizione di carico elementare  
 Comm.=Commento  
 Imp. =Numero dell'impalcato  
 Mq<sub>rot</sub> =Area solai  
 QA =Primo carico accidentale  
 QA2 =Secondo carico accidentale  
 QA3 =Terzo carico accidentale  
 Qpn =Carico permanente non strutturale  
 Qps =Carico permanente strutturale  
 Quota=Quota impalcato  
 Ts =Numero del tipo solaio

Imp.	Quota	Ts	Comm.	Mq <sub>rot</sub> <m²>	Qps <daN/m²>	CCE	Qpn <daN/m²>	CCE	QA <daN/m²>	CCE	QA2 <daN/m²>	CCE	QA3 <daN/m²>	CCE
1	0.00	3	Solaio SP	292.47	200.00	1	200.00	2	200.00	3	--	--	--	--
1	0.00	4	Solaio s100	1.19	500.00	1	--	--	200.00	2	--	--	--	--
0	-3.60	3	Solaio SP	152.31	200.00	1	200.00	2	200.00	3	--	--	--	--
1	0.00	4	Solaio s100	152.31	500.00	1	200.00	2	200.00	3	--	--	--	--
3	3.50	1	Solaio di piano sp.24	408.64	230.00	1	190.00	2	200.00	3	0.00	4	--	--
5	6.50	1	Solaio di piano sp.24	408.64	230.00	1	190.00	2	200.00	3	0.00	4	--	--
7	9.50	1	Solaio di piano sp.24	408.64	230.00	1	190.00	2	200.00	3	0.00	4	--	--
9	12.50	1	Solaio di piano sp.24	408.64	230.00	1	190.00	2	200.00	3	0.00	4	--	--
11	15.50	1	Solaio di piano sp.24	408.64	230.00	1	190.00	2	200.00	3	0.00	4	--	--
13	18.50	1	Solaio di piano sp.24	408.64	230.00	1	190.00	2	200.00	3	0.00	4	--	--
15	21.50	1	Solaio di piano sp.24	408.64	230.00	1	190.00	2	200.00	3	0.00	4	--	--
17	24.50	1	Solaio di piano sp.24	408.64	230.00	1	190.00	2	200.00	3	0.00	4	--	--
19	27.50	2	Solaio copertura	408.64	230.00	1	400.00	2	200.00	3	80.00	4	--	--

### Minimo coefficiente di sicurezza

#### Simbologia

CC =Numero della combinazione delle condizioni di carico elementari  
 Elem.=Elemento  
 Sic. =Sicurezza  
 TCC =Tipo di combinazione di carico  
     SLU = Stato limite ultimo  
     SLE R = Stato limite d'esercizio, combinazione rara  
     SLE F = Stato limite d'esercizio, combinazione frequente  
     SLE Q = Stato limite d'esercizio, combinazione quasi permanente  
 TV =Tipo di verifica  
     PRFL = Flessione e pressoflessione  
     TAG = Taglio o altre rotture fragili  
     NOD = Nodi in c.a. e collegamenti in acciaio  
     STAB = Stabilità  
     CP = Capacità portante  
     RNP = Resistenza nel piano  
     RFP = Resistenza fuori piano  
     CIN = Cinematismi  
     CON = Connessioni

#### Tabella elementi e minimo coefficiente di sicurezza

Elem.	CC	TCC	TV	Sic.
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Relazione di calcolo

Travata n. 19007	2	SLE R	PRFL	0.236
Pilastrata n. 20	4	SLE Q	PRFL	0.459
Pilastrata n. 10	1	SLU	TAG	0.476
Nucleo n. 2004	1	SLU	PRFL	0.797
Nucleo n. 313	1	SLU	TAG	1.264

Minimo coefficiente di sicurezza:0.236