

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)

Operatore: CASA SPA



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TAV. N°	TAVOLE DI PROGETTO STRUTTURALE:	SCALA:
DF-ST 00.5	TABULATI DI CALCOLO ANTE BLOCCO 1	-
		DATA: Giugno 2022
FI36-DF-ST-00.5-01		

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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 - Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione.

Relazione di calcolo

- 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				

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>				
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		

Relazione di calcolo

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		
40	TrvF T56789	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		
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	

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 elasstico	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
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	
9	Vano Scala sp.20	F	N	20.00		N	0.00	0.00	0.00	1	

Elenco tipi solai

Relazione di calcolo

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

Elenco solai

Simbologia

Nodi =Nodi del solaio
Ord. =Orditura
Sol. =Numero del solaio
Ts =Numero del tipo solaio

Sol.	Ts	Ord. <grad>	Nodi
300	1	90.00	321 322 385 -929 397 337 336 335
301	1	90.00	388 323 324 325 341 340 339 338 398 -933
308	1	90.00	301 -790 -791 -792 -793 -794 -795 -796 -797 302 -798 -799 -800 -801 -802 -803 -804 -805 303 -806 -807 -808 -809 -810 -811 -812 304 -813 -814 -815 -816 -817 -818 -819 -820 305 -821 -822 -823 -824 -825 -826 -827 -828 306 307 325 324 323 388 387 -921 -915 -907 -906 -905 -914 -920 386 385 322 321
500	1	90.00	521 522 585 -1703 597 537 536 535
501	1	90.00	588 523 524 525 541 540 539 538 598 -1707
508	1	90.00	501 -1564 -1565 -1566 -1567 -1568 -1569 -1570 -1571 502 -1572 -1573 -1574 -1575 -1576 -1577 -1578 -1579 503 -1580 -1581 -1582 -1583 -1584 -1585 -1586 504 -1587 -1588 -1589 -1590 -1591 -1592 -1593 -1594 505 -1595 -1596 -1597 -1598 -1599 -1600 -1601 -1602 506 507 525 524 523 588 587 -1695 -1689 -1681 -1680 -1679 -1688 -1694 586 585 522 521
700	1	90.00	721 722 785 -2468 797 737 736 735
701	1	90.00	788 723 724 725 741 740 739 738 798 -2472
708	1	90.00	701 -2329 -2330 -2331 -2332 -2333 -2334 -2335 -2336 702 -2337 -2338 -2339 -2340 -2341 -2342 -2343 -2344 703 -2345 -2346 -2347 -2348 -2349 -2350 -2351 704 -2352 -2353 -2354 -2355 -2356 -2357 -2358 -2359 705 -2360 -2361 -2362 -2363 -2364 -2365 -2366 -2367 706 707 725 724 723 788 787 -2460 -2454 -2446 -2445 -2444 -2453 -2459 786 785 722 721
900	1	90.00	921 922 985 -3233 997 937 936 935
901	1	90.00	988 923 924 925 941 940 939 938 998 -3237
908	1	90.00	901 -3094 -3095 -3096 -3097 -3098 -3099 -3100 -3101 902 -3102 -3103 -3104 -3105 -3106 -3107 -3108 -3109 903 -3110 -3111 -3112 -3113 -3114 -3115 -3116 904 -3117 -3118 -3119 -3120 -3121 -3122 -3123 -3124 905 -3125 -3126 -3127 -3128 -3129 -3130 -3131 -3132 906 907 925 924 923 988 987 -3225 -3219 -3211 -3210 -3209 -3218 -3224 986 985 922 921
1100	1	90.00	1121 1122 1185 -3998 1197 1137 1136 1135
1101	1	90.00	1101 -3859 -3860 -3861 -3862 -3863 -3864 -3865 -3866 1102 -3867 -3868 -3869 -3870 -3871 -3872 -3873 -3874 1103 -3875 -3876 -3877 -3878 -3879 -3880 -3881 1104 -3882 -3883 -3884 -3885 -3886 -3887 -3888 -3889 1105 -3890 -3891 -3892 -3893 -3894 -3895 -3896 -3897 1106 1107 1125 1124 1123 1188 1187 -3990 -3984 -3976 -3975 -3974 -3983 -3989 1186 1185 1122 1121
1102	1	90.00	1188 1123 1124 1125 1141 1140 1139 1138 1198 -4002
1300	1	90.00	1301 -4624 -4625 -4626 -4627 -4628 -4629 -4630 -4631 1302 -4632 -4633 -4634 -4635 -4636 -4637 -4638 -4639 1303 -4640 -4641 -4642 -4643 -4644 -4645 -4646 1304 -4647 -4648 -4649 -4650 -4651 -4652 -4653 -4654 1305 -4655 -4656 -4657 -4658 -4659 -4660 -4661 -4662 1306 1307 1325 1324 1323 1388 1387 -4755 -4749 -4741 -4740 -4739 -4748 -4754 1386 1385 1322 1321
1301	1	90.00	1321 1322 1385 -4763 1397 1337 1336 1335
1302	1	90.00	1388 1323 1324 1325 1341 1340 1339 1338 1398 -4767
1500	1	90.00	1501 -5389 -5390 -5391 -5392 -5393 -5394 -5395 -5396 1502 -5397 -5398 -5399 -5400 -5401 -5402 -5403 -5404 1503 -5405 -5406 -5407 -5408 -5409 -5410 -5411 1504 -5412 -5413 -5414 -5415 -5416 -5417 -5418 -5419 1505 -5420 -5421 -5422 -5423 -5424 -5425 -5426 -5427 1506 1507 1525 1524 1523 1588 1587 -5520 -5514 -5506 -5505 -5504 -5513 -5519 1586 1585 1522 1521
1501	1	90.00	1521 1522 1585 -5529 1597 1537 1536 1535
1502	1	90.00	1588 1523 1524 1525 1541 1540 1539 1538 1598 -5533
1700	1	90.00	1701 -6155 -6156 -6157 -6158 -6159 -6160 -6161 -6162 1702 -6163 -6164 -6165 -6166 -6167 -6168 -6169 -6170 1703 -6171 -6172 -6173 -6174 -6175 -6176 -6177 1704 -6178 -6179 -6180 -6181 -6182 -6183 -6184 -6185 1705 -6186 -6187 -6188 -6189 -6190 -6191 -6192 -6193 1706 1707 1725 1724 1723 1788 1787 -6286 -6280 -6272 -6271 -6270 -6279 -6285 1786 1785 1722 1721
1701	1	90.00	1721 1722 1785 -6294 1797 1737 1736 1735
1702	1	90.00	1788 1723 1724 1725 1741 1740 1739 1738 1798 -6298
1900	2	90.00	1988 1923 1924 1925 1941 1940 1939 1938 1998 -7063
1901	2	90.00	1921 1922 1985 -7059 1997 1937 1936 1935
1902	2	90.00	1901 -6920 -6921 -6922 -6923 -6924 -6925 -6926 -6927 1902 -6928 -6929 -6930 -6931 -6932 -6933 -6934 -6935 1903 -6936 -6937 -6938 -6939 -6940 -6941 -6942 1904 -6943 -6944 -6945 -6946 -6947 -6948 -6949

Relazione di calcolo

			-6950	1905	-6951	-6952	-6953	-6954	-6955	-6956	-6957	-6958	1906	1907	1925	1924	1923	1988	1987	-7051
			-7045	-7037	-7036	-7035	-7044	-7050	1986	1985	1922	1921								
2200	3	0.00	-150	-151	-152	-153	-154	-175	38	-7141	-7137	-7142	37	-171						
2201	3	0.00	3	4	58	-102	-120	-137	-154	-153	-152	-151	-150	-133	-116	-98	57			
2210	3	0.00	6	7	25	24														
2211	3	0.00	24	25	41	40														
2212	3	0.00	23	24	40	39														
2213	3	0.00	5	6	24	23														
2214	3	0.00	2	3	57	-98	-116	-133	-150	-149	62	22								
2215	3	0.00	22	62	-149	-150	-171	37	36											
2216	3	0.00	1	2	22	21														
2217	3	0.00	21	22	36	35														
2218	3	0.00	4	5	23	63	-155	-154	-137	-120	-102	58								
2219	3	0.00	-154	-155	63	23	39	38	-175											

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	NV		1
2	Tamponatura Balconi	170.00	AP	AL	NV		1

Carichi

Elenco tipi CCE

Simbologia

γ_{max} = Coeff. γ_{max}
 $\gamma_{min.}$ = Coeff. $\gamma_{min.}$
 Ψ_0 = Coeff. Ψ_0
 $\Psi_{0,s}$ = Coeff. Ψ_0 sismico (D.M. 96)
 Ψ_1 = Coeff. Ψ_1
 Ψ_2 = Coeff. Ψ_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	$\gamma_{min.}$	γ_{max}	Ψ_0	Ψ_1	Ψ_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

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

Relazione di calcolo

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
40	TrvF T56789	10200.000000	Calcestruzzo	2500.00	2550.00
42	TrvF T233*	12480.000000	Calcestruzzo	2500.00	3120.00
46	Trv 30x40 CP	1200.000000	Calcestruzzo	2500.00	300.00
47	Trv 30x55 CPR	1650.000000	Calcestruzzo	2500.00	412.50

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	-1679	-1680	S	508	QPS	ZG	0.00	433.55	0.79	433.55
0	-2444	-2445	S	708	QPS	ZG	0.00	433.55	0.79	433.55
0	-3209	-3210	S	908	QPS	ZG	0.00	433.55	0.79	433.55
0	-3974	-3975	S	1101	QPS	ZG	0.00	433.55	0.79	433.55
0	-4739	-4740	S	1300	QPS	ZG	0.00	433.55	0.79	433.55
0	-5504	-5505	S	1500	QPS	ZG	0.00	433.55	0.79	433.55
0	-6270	-6271	S	1700	QPS	ZG	0.00	433.55	0.79	433.55
0	-7035	-7036	S	1902	QPS	ZG	0.00	433.55	0.79	433.55
3001	355	-293	--	M	ZG	0.00	550.00	0.36	550.00	
3001	-294	-295	--	M	ZG	0.00	550.00	0.36	550.00	
3001	-296	-297	--	M	ZG	0.00	550.00	0.36	550.00	
3001	-298	-299	--	M	ZG	0.00	550.00	0.36	550.00	
3001	-300	356	--	M	ZG	0.00	550.00	0.36	550.00	
3003	-790	-791	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-792	-793	S	308	QPS	ZG	0.00	638.25	0.36	638.25

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1680	-1681	S	508	QPS	ZG	0.00	433.55	0.79	433.55
0	-2445	-2446	S	708	QPS	ZG	0.00	433.55	0.79	433.55
0	-3210	-3211	S	908	QPS	ZG	0.00	433.55	0.79	433.55
0	-3975	-3976	S	1101	QPS	ZG	0.00	433.55	0.79	433.55
0	-4740	-4741	S	1300	QPS	ZG	0.00	433.55	0.79	433.55
0	-5505	-5506	S	1500	QPS	ZG	0.00	433.55	0.79	433.55
0	-6271	-6272	S	1700	QPS	ZG	0.00	433.55	0.79	433.55
0	-7036	-7037	S	1902	QPS	ZG	0.00	433.55	0.79	433.55
3001	-293	-294	--	M	ZG	0.00	550.00	0.36	550.00	
3001	-295	-296	--	M	ZG	0.00	550.00	0.36	550.00	
3001	-297	-298	--	M	ZG	0.00	550.00	0.36	550.00	
3001	-299	-300	--	M	ZG	0.00	550.00	0.36	550.00	
3003	301	-790	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-791	-792	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-793	-794	S	308	QPS	ZG	0.00	638.25	0.36	638.25

Relazione di calcolo

3003	-794	-795	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-795	-796	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-796	-797	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-797	302	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	302	-798	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-798	-799	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-799	-800	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-800	-801	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-801	-802	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-802	-803	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-803	-804	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-804	-805	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-805	303	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	303	-806	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-806	-807	S	308	QPS	ZG	0.00	638.25	0.31	638.25	3003	-806	-807	S	308	QPS	ZG	0.31	433.55	0.36	433.55
3003	-807	-808	S	308	QPS	ZG	0.00	433.55	0.36	433.55	3003	-808	-809	S	308	QPS	ZG	0.00	433.55	0.36	433.55
3003	-809	-810	S	308	QPS	ZG	0.00	433.55	0.36	433.55	3003	-810	-811	S	308	QPS	ZG	0.00	433.55	0.36	433.55
3003	-811	-812	S	308	QPS	ZG	0.00	433.55	0.07	433.55	3003	-811	-812	S	308	QPS	ZG	0.07	638.25	0.36	638.25
3003	-812	304	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	304	-813	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-813	-814	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-814	-815	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-815	-816	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-816	-817	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-817	-818	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-818	-819	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-819	-820	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-820	305	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	305	-821	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-821	-822	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-822	-823	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-823	-824	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-824	-825	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-825	-826	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-826	-827	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	-827	-828	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-828	306	S	308	QPS	ZG	0.00	638.25	0.36	638.25	3003	306	307	S	308	QPS	ZG	0.00	638.25	3.25	638.25
3006	-905	-906	S	308	QPS	ZG	0.00	433.55	0.79	433.55	3006	-906	-907	S	308	QPS	ZG	0.00	433.55	0.79	433.55
3007	321	322	S	300	QPS	ZG	0.00	594.55	3.23	594.55	3007	321	322	S	308	QPS	ZG	0.00	638.25	3.23	638.25
3007	322	385	S	300	QPS	ZG	0.00	594.55	3.23	594.55	3007	322	385	S	308	QPS	ZG	0.00	638.25	3.23	638.25
3007	385	386	S	308	QPS	ZG	0.00	638.25	0.67	638.25	3007	387	388	S	308	QPS	ZG	0.00	638.25	0.65	638.25
3007	388	323	S	301	QPS	ZG	0.00	594.55	3.25	594.55	3007	388	323	S	308	QPS	ZG	0.00	638.25	3.25	638.25
3007	323	324	S	301	QPS	ZG	0.00	594.55	3.25	594.55	3007	323	324	S	308	QPS	ZG	0.00	638.25	3.25	638.25
3007	324	325	S	301	QPS	ZG	0.00	594.55	3.25	594.55	3007	324	325	S	308	QPS	ZG	0.00	638.25	3.25	638.25
3009	335	336	S	300	QPS	ZG	0.00	594.55	3.23	594.55	3009	336	337	S	300	QPS	ZG	0.00	594.55	3.23	594.55
3009	338	339	S	301	QPS	ZG	0.00	594.55	3.25	594.55	3009	339	340	S	301	QPS	ZG	0.00	594.55	3.25	594.55
3009	340	341	S	301	QPS	ZG	0.00	594.55	3.25	594.55	3044	357	-301	--	M	ZG	0.00	1500.00	0.36	1500.00	
3044	-301	-302	--	M	ZG	0.00	1500.00	0.36	1500.00	3044	-302	-303	--	M	ZG	0.00	1500.00	0.36	1500.00		
3044	-303	-304	--	M	ZG	0.00	1500.00	0.36	1500.00	3044	-304	-305	--	M	ZG	0.00	1500.00	0.36	1500.00		
3044	-305	-306	--	M	ZG	0.00	1500.00	0.36	1500.00	3044	-306	-307	--	M	ZG	0.00	1500.00	0.36	1500.00		
3044	-307	358	--	M	ZG	0.00	1500.00	0.36	1500.00	3087	359	-308	--	M	ZG	0.00	550.00	0.36	550.00		
3087	-308	-309	--	M	ZG	0.00	550.00	0.36	550.00	3087	-309	-310	--	M	ZG	0.00	550.00	0.36	550.00		
3087	-310	-311	--	M	ZG	0.00	550.00	0.36	550.00	3087	-311	-312	--	M	ZG	0.00	550.00	0.36	550.00		
3087	-312	-313	--	M	ZG	0.00	550.00	0.36	550.00	3087	-313	-314	--	M	ZG	0.00	550.00	0.36	550.00		
3087	-314	-315	--	M	ZG	0.00	550.00	0.36	550.00	3087	-315	360	--	M	ZG	0.00	550.00	0.36	550.00		
5001	555	-1067	--	M	ZG	0.00	550.00	0.36	550.00	5001	-1067	-1068	--	M	ZG	0.00	550.00	0.36	550.00		
5001	-1068	-1069	--	M	ZG	0.00	550.00	0.36	550.00	5001	-1069	-1070	--	M	ZG	0.00	550.00	0.36	550.00		
5001	-1070	-1071	--	M	ZG	0.00	550.00	0.36	550.00	5001	-1071	-1072	--	M	ZG	0.00	550.00	0.36	550.00		
5001	-1072	-1073	--	M	ZG	0.00	550.00	0.36	550.00	5001	-1073	-1074	--	M	ZG	0.00	550.00	0.36	550.00		
5001	-1074	556	--	M	ZG	0.00	550.00	0.36	550.00	5003	501	-1564	S	508	QPS	ZG	0.00	638.25	0.36	638.25	
5003	-1564	-1565	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1565	-1566	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1566	-1567	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1567	-1568	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1568	-1569	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1569	-1570	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1570	-1571	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1571	502	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	502	-1572	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1572	-1573	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1573	-1574	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1574	-1575	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1575	-1576	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1576	-1577	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1577	-1578	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1578	-1579	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1579	503	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	503	-1580	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1580	-1581	S	508	QPS	ZG	0.00	638.25	0.31	638.25	5003	-1580	-1581	S	508	QPS	ZG	0.31	433.55	0.36	433.55

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5003	-1581	-1582	S	508	QPS	ZG	0.00	433.55	0.36	433.55	5003	-1582	-1583	S	508	QPS	ZG	0.00	433.55	0.36	433.55
5003	-1583	-1584	S	508	QPS	ZG	0.00	433.55	0.36	433.55	5003	-1584	-1585	S	508	QPS	ZG	0.00	433.55	0.36	433.55
5003	-1585	-1586	S	508	QPS	ZG	0.00	433.55	0.07	433.55	5003	-1585	-1586	S	508	QPS	ZG	0.07	638.25	0.36	638.25
5003	-1586	504	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	504	-1587	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1587	-1588	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1588	-1589	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1589	-1590	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1590	-1591	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1591	-1592	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1592	-1593	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1593	-1594	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1594	505	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	505	-1595	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1595	-1596	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1596	-1597	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1597	-1598	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1598	-1599	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1599	-1600	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1600	-1601	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	-1601	-1602	S	508	QPS	ZG	0.00	638.25	0.36	638.25
5003	-1602	506	S	508	QPS	ZG	0.00	638.25	0.36	638.25	5003	506	507	S	508	QPS	ZG	0.00	638.25	3.25	638.25
5007	521	522	S	500	QPS	ZG	0.00	594.55	3.23	594.55	5007	521	522	S	508	QPS	ZG	0.00	638.25	3.23	638.25
5007	522	585	S	500	QPS	ZG	0.00	594.55	3.23	594.55	5007	522	585	S	508	QPS	ZG	0.00	638.25	3.23	638.25
5007	585	586	S	508	QPS	ZG	0.00	638.25	0.67	638.25	5007	587	588	S	508	QPS	ZG	0.00	638.25	0.65	638.25
5007	588	523	S	501	QPS	ZG	0.00	594.55	3.25	594.55	5007	588	523	S	508	QPS	ZG	0.00	638.25	3.25	638.25
5007	523	524	S	501	QPS	ZG	0.00	594.55	3.25	594.55	5007	523	524	S	508	QPS	ZG	0.00	638.25	3.25	638.25
5007	524	525	S	501	QPS	ZG	0.00	594.55	3.25	594.55	5007	524	525	S	508	QPS	ZG	0.00	638.25	3.25	638.25
5009	535	536	S	500	QPS	ZG	0.00	594.55	3.23	594.55	5009	536	537	S	500	QPS	ZG	0.00	594.55	3.23	594.55
5009	538	539	S	501	QPS	ZG	0.00	594.55	3.25	594.55	5009	539	540	S	501	QPS	ZG	0.00	594.55	3.25	594.55
5009	540	541	S	501	QPS	ZG	0.00	594.55	3.25	594.55	5044	557	-1075	---	M	ZG	0.00	1500.00	0.36	1500.00	
5044	-1075	-1076	---	M	ZG	0.00	1500.00	0.36	1500.00	5044	-1076	-1077	---	M	ZG	0.00	1500.00	0.36	1500.00		
5044	-1077	-1078	---	M	ZG	0.00	1500.00	0.36	1500.00	5044	-1078	-1079	---	M	ZG	0.00	1500.00	0.36	1500.00		
5044	-1079	-1080	---	M	ZG	0.00	1500.00	0.36	1500.00	5044	-1080	-1081	---	M	ZG	0.00	1500.00	0.36	1500.00		
5044	-1081	558	---	M	ZG	0.00	1500.00	0.36	1500.00	5087	559	-1082	---	M	ZG	0.00	550.00	0.36	550.00		
5087	-1082	-1083	---	M	ZG	0.00	550.00	0.36	550.00	5087	-1083	-1084	---	M	ZG	0.00	550.00	0.36	550.00		
5087	-1084	-1085	---	M	ZG	0.00	550.00	0.36	550.00	5087	-1085	-1086	---	M	ZG	0.00	550.00	0.36	550.00		
5087	-1086	-1087	---	M	ZG	0.00	550.00	0.36	550.00	5087	-1087	-1088	---	M	ZG	0.00	550.00	0.36	550.00		
5087	-1088	-1089	---	M	ZG	0.00	550.00	0.36	550.00	5087	-1089	560	---	M	ZG	0.00	550.00	0.36	550.00		
7001	755	-1832	---	M	ZG	0.00	550.00	0.36	550.00	7001	-1832	-1833	---	M	ZG	0.00	550.00	0.36	550.00		
7001	-1833	-1834	---	M	ZG	0.00	550.00	0.36	550.00	7001	-1834	-1835	---	M	ZG	0.00	550.00	0.36	550.00		
7001	-1835	-1836	---	M	ZG	0.00	550.00	0.36	550.00	7001	-1836	-1837	---	M	ZG	0.00	550.00	0.36	550.00		
7001	-1837	-1838	---	M	ZG	0.00	550.00	0.36	550.00	7001	-1838	-1839	---	M	ZG	0.00	550.00	0.36	550.00		
7001	-1839	756	---	M	ZG	0.00	550.00	0.36	550.00	7003	701	-2329	S	708	QPS	ZG	0.00	638.25	0.36	638.25	
7003	-2329	-2330	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2330	-2331	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2331	-2332	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2332	-2333	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2333	-2334	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2334	-2335	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2335	-2336	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2336	702	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	702	-2337	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2337	-2338	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2338	-2339	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2339	-2340	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2340	-2341	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2341	-2342	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2342	-2343	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2343	-2344	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2344	703	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	703	-2345	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2345	-2346	S	708	QPS	ZG	0.00	638.25	0.31	638.25	7003	-2345	-2346	S	708	QPS	ZG	0.31	433.55	0.36	433.55
7003	-2346	-2347	S	708	QPS	ZG	0.00	433.55	0.36	433.55	7003	-2347	-2348	S	708	QPS	ZG	0.00	433.55	0.36	433.55
7003	-2348	-2349	S	708	QPS	ZG	0.00	433.55	0.36	433.55	7003	-2349	-2350	S	708	QPS	ZG	0.00	433.55	0.36	433.55
7003	-2350	-2351	S	708	QPS	ZG	0.00	433.55	0.07	433.55	7003	-2350	-2351	S	708	QPS	ZG	0.07	638.25	0.36	638.25
7003	-2351	704	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	704	-2352	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2352	-2353	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2353	-2354	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2354	-2355	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2355	-2356	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2356	-2357	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2357	-2358	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2358	-2359	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2359	705	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	705	-2360	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2360	-2361	S	708	QPS	ZG	0.00	638.25	0.36	638.25

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7003	-2361	-2362	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2362	-2363	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2363	-2364	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2364	-2365	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2365	-2366	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	-2366	-2367	S	708	QPS	ZG	0.00	638.25	0.36	638.25
7003	-2367	706	S	708	QPS	ZG	0.00	638.25	0.36	638.25	7003	706	707	S	708	QPS	ZG	0.00	638.25	3.25	638.25
7007	721	722	S	700	QPS	ZG	0.00	594.55	3.23	594.55	7007	721	722	S	708	QPS	ZG	0.00	638.25	3.23	638.25
7007	722	785	S	700	QPS	ZG	0.00	594.55	3.23	594.55	7007	722	785	S	708	QPS	ZG	0.00	638.25	3.23	638.25
7007	785	786	S	708	QPS	ZG	0.00	638.25	0.67	638.25	7007	787	788	S	708	QPS	ZG	0.00	638.25	0.65	638.25
7007	788	723	S	701	QPS	ZG	0.00	594.55	3.25	594.55	7007	788	723	S	708	QPS	ZG	0.00	638.25	3.25	638.25
7007	723	724	S	701	QPS	ZG	0.00	594.55	3.25	594.55	7007	723	724	S	708	QPS	ZG	0.00	638.25	3.25	638.25
7007	724	725	S	701	QPS	ZG	0.00	594.55	3.25	594.55	7007	724	725	S	708	QPS	ZG	0.00	638.25	3.25	638.25
7009	735	736	S	700	QPS	ZG	0.00	594.55	3.23	594.55	7009	736	737	S	700	QPS	ZG	0.00	594.55	3.23	594.55
7009	738	739	S	701	QPS	ZG	0.00	594.55	3.25	594.55	7009	739	740	S	701	QPS	ZG	0.00	594.55	3.25	594.55
7009	740	741	S	701	QPS	ZG	0.00	594.55	3.25	594.55	7044	757	-1840	---	M	ZG	0.00	1500.00	0.36	1500.00	
7044	-1840	-1841	---	M	ZG	0.00	1500.00	0.36	1500.00	7044	-1841	-1842	---	M	ZG	0.00	1500.00	0.36	1500.00		
7044	-1842	-1843	---	M	ZG	0.00	1500.00	0.36	1500.00	7044	-1843	-1844	---	M	ZG	0.00	1500.00	0.36	1500.00		
7044	-1844	-1845	---	M	ZG	0.00	1500.00	0.36	1500.00	7044	-1845	-1846	---	M	ZG	0.00	1500.00	0.36	1500.00		
7044	-1846	758	---	M	ZG	0.00	1500.00	0.36	1500.00	7087	759	-1847	---	M	ZG	0.00	550.00	0.36	550.00		
7087	-1847	-1848	---	M	ZG	0.00	550.00	0.36	550.00	7087	-1848	-1849	---	M	ZG	0.00	550.00	0.36	550.00		
7087	-1849	-1850	---	M	ZG	0.00	550.00	0.36	550.00	7087	-1850	-1851	---	M	ZG	0.00	550.00	0.36	550.00		
7087	-1851	-1852	---	M	ZG	0.00	550.00	0.36	550.00	7087	-1852	-1853	---	M	ZG	0.00	550.00	0.36	550.00		
7087	-1853	-1854	---	M	ZG	0.00	550.00	0.36	550.00	7087	-1854	760	---	M	ZG	0.00	550.00	0.36	550.00		
9001	955	-2597	---	M	ZG	0.00	550.00	0.36	550.00	9001	-2597	-2598	---	M	ZG	0.00	550.00	0.36	550.00		
9001	-2598	-2599	---	M	ZG	0.00	550.00	0.36	550.00	9001	-2599	-2600	---	M	ZG	0.00	550.00	0.36	550.00		
9001	-2600	-2601	---	M	ZG	0.00	550.00	0.36	550.00	9001	-2601	-2602	---	M	ZG	0.00	550.00	0.36	550.00		
9001	-2602	-2603	---	M	ZG	0.00	550.00	0.36	550.00	9001	-2603	-2604	---	M	ZG	0.00	550.00	0.36	550.00		
9001	-2604	956	---	M	ZG	0.00	550.00	0.36	550.00	9003	901	-3094	S	908	QPS	ZG	0.00	638.25	0.36	638.25	
9003	-3094	-3095	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3095	-3096	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3096	-3097	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3097	-3098	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3098	-3099	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3099	-3100	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3100	-3101	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3101	902	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	902	-3102	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3102	-3103	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3103	-3104	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3104	-3105	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3105	-3106	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3106	-3107	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3107	-3108	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3108	-3109	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3109	903	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	903	-3110	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3110	-3111	S	908	QPS	ZG	0.00	638.25	0.31	638.25	9003	-3110	-3111	S	908	QPS	ZG	0.31	433.55	0.36	433.55
9003	-3111	-3112	S	908	QPS	ZG	0.00	433.55	0.36	433.55	9003	-3112	-3113	S	908	QPS	ZG	0.00	433.55	0.36	433.55
9003	-3113	-3114	S	908	QPS	ZG	0.00	433.55	0.36	433.55	9003	-3114	-3115	S	908	QPS	ZG	0.00	433.55	0.36	433.55
9003	-3115	-3116	S	908	QPS	ZG	0.00	433.55	0.07	433.55	9003	-3115	-3116	S	908	QPS	ZG	0.07	638.25	0.36	638.25
9003	-3116	904	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	904	-3117	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3117	-3118	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3118	-3119	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3119	-3120	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3120	-3121	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3121	-3122	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3122	-3123	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3123	-3124	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3124	905	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	905	-3125	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3125	-3126	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3126	-3127	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3127	-3128	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3128	-3129	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3129	-3130	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3130	-3131	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	-3131	-3132	S	908	QPS	ZG	0.00	638.25	0.36	638.25
9003	-3132	906	S	908	QPS	ZG	0.00	638.25	0.36	638.25	9003	906	907	S	908	QPS	ZG	0.00	638.25	3.25	638.25
9007	921	922	S	900	QPS	ZG	0.00	594.55	3.23	594.55	9007	921	922	S	908	QPS	ZG	0.00	638.25	3.23	638.25
9007	922	985	S	900	QPS	ZG	0.00	594.55	3.23	594.55	9007	922	985	S	908	QPS	ZG	0.00	638.25	3.23	638.25
9007	985	986	S	908	QPS	ZG	0.00	638.25	0.67	638.25	9007	987	988	S	908	QPS	ZG	0.00	638.25	0.65	638.25
9007	988	923	S	901	QPS	ZG	0.00	594.55	3.25	594.55	9007	988	923	S	908	QPS	ZG	0.00	638.25	3.25	638.25
9007	923	924	S	901	QPS	ZG	0.00	594.55	3.25	594.55	9007	923	924	S	908	QPS	ZG	0.00	638.25	3.25	638.25

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9007	924	925	S	901	QPS	ZG	0.00	594.55	3.25	594.55
9009	935	936	S	900	QPS	ZG	0.00	594.55	3.23	594.55
9009	938	939	S	901	QPS	ZG	0.00	594.55	3.25	594.55
9009	940	941	S	901	QPS	ZG	0.00	594.55	3.25	594.55
9044	-2605	-2606	-	--	M	ZG	0.00	1500.00	0.36	1500.00
9044	-2607	-2608	-	--	M	ZG	0.00	1500.00	0.36	1500.00
9044	-2609	-2610	-	--	M	ZG	0.00	1500.00	0.36	1500.00
9044	-2611	958	-	--	M	ZG	0.00	1500.00	0.36	1500.00
9087	-2612	-2613	-	--	M	ZG	0.00	550.00	0.36	550.00
9087	-2614	-2615	-	--	M	ZG	0.00	550.00	0.36	550.00
9087	-2616	-2617	-	--	M	ZG	0.00	550.00	0.36	550.00
9087	-2618	-2619	-	--	M	ZG	0.00	550.00	0.36	550.00
11001	1155	-3362	-	--	M	ZG	0.00	550.00	0.36	550.00
11001	-3363	-3364	-	--	M	ZG	0.00	550.00	0.36	550.00
11001	-3365	-3366	-	--	M	ZG	0.00	550.00	0.36	550.00
11001	-3367	-3368	-	--	M	ZG	0.00	550.00	0.36	550.00
11001	-3369	1156	-	--	M	ZG	0.00	550.00	0.36	550.00
11003	-3859	-3860	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3861	-3862	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3863	-3864	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3865	-3866	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	1102	-3867	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3868	-3869	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3870	-3871	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3872	-3873	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3874	1103	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3875	-3876	S	1101	QPS	ZG	0.00	638.25	0.31	638.25
11003	-3876	-3877	S	1101	QPS	ZG	0.00	433.55	0.36	433.55
11003	-3878	-3879	S	1101	QPS	ZG	0.00	433.55	0.36	433.55
11003	-3880	-3881	S	1101	QPS	ZG	0.00	433.55	0.07	433.55
11003	-3881	1104	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3882	-3883	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3884	-3885	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3886	-3887	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3888	-3889	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	1105	-3890	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3891	-3892	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3893	-3894	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3895	-3896	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3897	1106	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11007	1121	1122	S	1100	QPS	ZG	0.00	594.55	3.23	594.55
11007	1122	1185	S	1100	QPS	ZG	0.00	594.55	3.23	594.55
11007	1185	1186	S	1101	QPS	ZG	0.00	638.25	0.67	638.25
11007	1188	1123	S	1101	QPS	ZG	0.00	638.25	3.25	638.25
11007	1123	1124	S	1101	QPS	ZG	0.00	638.25	3.25	638.25
11007	1124	1125	S	1101	QPS	ZG	0.00	638.25	3.25	638.25
11009	1135	1136	S	1100	QPS	ZG	0.00	594.55	3.23	594.55
11009	1138	1139	S	1102	QPS	ZG	0.00	594.55	3.25	594.55
11009	1140	1141	S	1102	QPS	ZG	0.00	594.55	3.25	594.55
11044	-3370	-3371	-	--	M	ZG	0.00	1500.00	0.36	1500.00
11044	-3372	-3373	-	--	M	ZG	0.00	1500.00	0.36	1500.00
11044	-3374	-3375	-	--	M	ZG	0.00	1500.00	0.36	1500.00
11044	-3376	1158	-	--	M	ZG	0.00	1500.00	0.36	1500.00
11087	-3377	-3378	-	--	M	ZG	0.00	550.00	0.36	550.00

9007	924	925	S	908	QPS	ZG	0.00	638.25	3.25	638.25
9009	936	937	S	900	QPS	ZG	0.00	594.55	3.23	594.55
9009	939	940	S	901	QPS	ZG	0.00	594.55	3.25	594.55
9044	957	-2605	-	---	M	ZG	0.00	1500.00	0.36	1500.00
9044	-2606	-2607	-	---	M	ZG	0.00	1500.00	0.36	1500.00
9044	-2608	-2609	-	---	M	ZG	0.00	1500.00	0.36	1500.00
9044	-2610	-2611	-	---	M	ZG	0.00	1500.00	0.36	1500.00
9087	959	-2612	-	---	M	ZG	0.00	550.00	0.36	550.00
9087	-2613	-2614	-	---	M	ZG	0.00	550.00	0.36	550.00
9087	-2615	-2616	-	---	M	ZG	0.00	550.00	0.36	550.00
9087	-2617	-2618	-	---	M	ZG	0.00	550.00	0.36	550.00
9087	-2619	960	-	---	M	ZG	0.00	550.00	0.36	550.00
11001	-3362	-3363	-	---	M	ZG	0.00	550.00	0.36	550.00
11001	-3364	-3365	-	---	M	ZG	0.00	550.00	0.36	550.00
11001	-3366	-3367	-	---	M	ZG	0.00	550.00	0.36	550.00
11001	-3368	-3369	-	---	M	ZG	0.00	550.00	0.36	550.00
11003	1101	-3859	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3860	-3861	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3862	-3863	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3864	-3865	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3866	1102	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3867	-3868	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3869	-3870	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3871	-3872	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3873	-3874	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	1103	-3875	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3875	-3876	S	1101	QPS	ZG	0.31	433.55	0.36	433.55
11003	-3877	-3878	S	1101	QPS	ZG	0.00	433.55	0.36	433.55
11003	-3879	-3880	S	1101	QPS	ZG	0.00	433.55	0.36	433.55
11003	-3880	-3881	S	1101	QPS	ZG	0.07	638.25	0.36	638.25
11003	1104	-3882	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3883	-3884	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3885	-3886	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3887	-3888	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3889	1105	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3890	-3891	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3892	-3893	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3894	-3895	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	-3896	-3897	S	1101	QPS	ZG	0.00	638.25	0.36	638.25
11003	1106	1107	S	1101	QPS	ZG	0.00	638.25	3.25	638.25
11007	1121	1122	S	1101	QPS	ZG	0.00	638.25	3.23	638.25
11007	1122	1185	S	1101	QPS	ZG	0.00	638.25	3.23	638.25
11007	1187	1188	S	1101	QPS	ZG	0.00	638.25	0.65	638.25
11007	1188	1123	S	1102	QPS	ZG	0.00	594.55	3.25	594.55
11007	1123	1124	S	1102	QPS	ZG	0.00	594.55	3.25	594.55
11007	1124	1125	S	1102	QPS	ZG	0.00	594.55	3.25	594.55
11009	1136	1137	S	1100	QPS	ZG	0.00	594.55	3.23	594.55
11009	1139	1140	S	1102	QPS	ZG	0.00	594.55	3.25	594.55
11044	1157	-3370	-	---	M	ZG	0.00	1500.00	0.36	1500.00
11044	-3371	-3372	-	---	M	ZG	0.00	1500.00	0.36	1500.00
11044	-3373	-3374	-	---	M	ZG	0.00	1500.00	0.36	1500.00
11044	-3375	-3376	-	---	M	ZG	0.00	1500.00	0.36	1500.00
11087	1159	-3377	-	---	M	ZG	0.00	550.00	0.36	550.00
11087	-3378	-3379	-	---	M	ZG	0.00	550.00	0.36	550.00

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11087	-3379	-3380	--	M	ZG	0.00	550.00	0.36	550.00	11087	-3380	-3381	---	M	ZG	0.00	550.00	0.36	550.00
11087	-3381	-3382	--	M	ZG	0.00	550.00	0.36	550.00	11087	-3382	-3383	---	M	ZG	0.00	550.00	0.36	550.00
11087	-3383	-3384	---	M	ZG	0.00	550.00	0.36	550.00	11087	-3384	1160	---	M	ZG	0.00	550.00	0.36	550.00
13001	1355	-4127	--	M	ZG	0.00	550.00	0.36	550.00	13001	-4127	-4128	---	M	ZG	0.00	550.00	0.36	550.00
13001	-4128	-4129	--	M	ZG	0.00	550.00	0.36	550.00	13001	-4129	-4130	---	M	ZG	0.00	550.00	0.36	550.00
13001	-4130	-4131	--	M	ZG	0.00	550.00	0.36	550.00	13001	-4131	-4132	---	M	ZG	0.00	550.00	0.36	550.00
13001	-4132	-4133	--	M	ZG	0.00	550.00	0.36	550.00	13001	-4133	-4134	---	M	ZG	0.00	550.00	0.36	550.00
13001	-4134	1356	---	M	ZG	0.00	550.00	0.36	550.00	13003	1301	-4624	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4624	-4625	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4625	-4626	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4626	-4627	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4627	-4628	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4628	-4629	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4629	-4630	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4630	-4631	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4631	1302	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	1302	-4632	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4632	-4633	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4633	-4634	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4634	-4635	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4635	-4636	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4636	-4637	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4637	-4638	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4638	-4639	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4639	1303	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	1303	-4640	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4640	-4641	S1300	QPS	ZG	0.00	638.25	0.31	638.25	13003	-4640	-4641	S1300	QPS	ZG	0.31	433.55	0.36	433.55
13003	-4641	-4642	S1300	QPS	ZG	0.00	433.55	0.36	433.55	13003	-4642	-4643	S1300	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4643	-4644	S1300	QPS	ZG	0.00	433.55	0.36	433.55	13003	-4644	-4645	S1300	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4645	-4646	S1300	QPS	ZG	0.00	433.55	0.07	433.55	13003	-4645	-4646	S1300	QPS	ZG	0.07	638.25	0.36	638.25
13003	-4646	1304	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	1304	-4647	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4647	-4648	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4648	-4649	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4649	-4650	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4650	-4651	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4651	-4652	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4652	-4653	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4653	-4654	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4654	1305	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	1305	-4655	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4655	-4656	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4656	-4657	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4657	-4658	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4658	-4659	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4659	-4660	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4660	-4661	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	-4661	-4662	S1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4662	1306	S1300	QPS	ZG	0.00	638.25	0.36	638.25	13003	1306	1307	S1300	QPS	ZG	0.00	638.25	3.25	638.25
13007	1321	1322	S1300	QPS	ZG	0.00	638.25	3.23	638.25	13007	1321	1322	S1301	QPS	ZG	0.00	594.55	3.23	594.55
13007	1322	1385	S1300	QPS	ZG	0.00	638.25	3.23	638.25	13007	1322	1385	S1301	QPS	ZG	0.00	594.55	3.23	594.55
13007	1385	1386	S1300	QPS	ZG	0.00	638.25	0.67	638.25	13007	1387	1388	S1300	QPS	ZG	0.00	638.25	0.65	638.25
13007	1388	1323	S1300	QPS	ZG	0.00	638.25	3.25	638.25	13007	1388	1323	S1302	QPS	ZG	0.00	594.55	3.25	594.55
13007	1323	1324	S1300	QPS	ZG	0.00	638.25	3.25	638.25	13007	1323	1324	S1302	QPS	ZG	0.00	594.55	3.25	594.55
13007	1324	1325	S1300	QPS	ZG	0.00	638.25	3.25	638.25	13007	1324	1325	S1302	QPS	ZG	0.00	594.55	3.25	594.55
13009	1335	1336	S1301	QPS	ZG	0.00	594.55	3.23	594.55	13009	1336	1337	S1301	QPS	ZG	0.00	594.55	3.23	594.55
13009	1338	1339	S1302	QPS	ZG	0.00	594.55	3.25	594.55	13009	1339	1340	S1302	QPS	ZG	0.00	594.55	3.25	594.55
13009	1340	1341	S1302	QPS	ZG	0.00	594.55	3.25	594.55	13044	1357	-4135	---	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4135	-4136	--	M	ZG	0.00	1500.00	0.36	1500.00	13044	-4136	-4137	---	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4137	-4138	--	M	ZG	0.00	1500.00	0.36	1500.00	13044	-4138	-4139	---	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4139	-4140	--	M	ZG	0.00	1500.00	0.36	1500.00	13044	-4140	-4141	---	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4141	1358	--	M	ZG	0.00	1500.00	0.36	1500.00	13087	1359	-4142	---	M	ZG	0.00	550.00	0.36	550.00
13087	-4142	-4143	--	M	ZG	0.00	550.00	0.36	550.00	13087	-4143	-4144	---	M	ZG	0.00	550.00	0.36	550.00
13087	-4144	-4145	--	M	ZG	0.00	550.00	0.36	550.00	13087	-4145	-4146	---	M	ZG	0.00	550.00	0.36	550.00
13087	-4146	-4147	--	M	ZG	0.00	550.00	0.36	550.00	13087	-4147	-4148	---	M	ZG	0.00	550.00	0.36	550.00
13087	-4148	-4149	--	M	ZG	0.00	550.00	0.36	550.00	13087	-4149	1360	---	M	ZG	0.00	550.00	0.36	550.00
15001	1555	-4892	--	M	ZG	0.00	550.00	0.36	550.00	15001	-4892	-4893	---	M	ZG	0.00	550.00	0.36	550.00
15001	-4893	-4894	--	M	ZG	0.00	550.00	0.36	550.00	15001	-4894	-4895	---	M	ZG	0.00	550.00	0.36	550.00
15001	-4895	-4896	--	M	ZG	0.00	550.00	0.36	550.00	15001	-4896	-4897	---	M	ZG	0.00	550.00	0.36	550.00
15001	-4897	-4898	--	M	ZG	0.00	550.00	0.36	550.00	15001	-4898	-4899	---	M	ZG	0.00	550.00	0.36	550.00
15001	-4899	1556	--	M	ZG	0.00	550.00	0.36	550.00	15003	1501	-5389	S1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5389	-5390	S1500	QPS	ZG	0.00	638.25	0.36	638.25	15003	-5390	-5391	S1500	QPS	ZG	0.00	638.25	0.36	638.25

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15003	-5391	-5392	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5393	-5394	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5395	-5396	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	1502	-5397	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5398	-5399	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5400	-5401	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5402	-5403	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5404	1503	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5405	-5406	S	1500	QPS	ZG	0.00	638.25	0.31	638.25
15003	-5406	-5407	S	1500	QPS	ZG	0.00	433.55	0.36	433.55
15003	-5408	-5409	S	1500	QPS	ZG	0.00	433.55	0.36	433.55
15003	-5410	-5411	S	1500	QPS	ZG	0.00	433.55	0.07	433.55
15003	-5411	1504	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5412	-5413	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5414	-5415	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5416	-5417	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5418	-5419	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	1505	-5420	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5421	-5422	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5423	-5424	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5425	-5426	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5427	1506	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15007	1521	1522	S	1501	QPS	ZG	0.00	594.55	3.23	594.55
15007	1522	1585	S	1501	QPS	ZG	0.00	594.55	3.23	594.55
15007	1585	1586	S	1500	QPS	ZG	0.00	638.25	0.67	638.25
15007	1588	1523	S	1502	QPS	ZG	0.00	594.55	3.25	594.55
15007	1523	1524	S	1502	QPS	ZG	0.00	594.55	3.25	594.55
15007	1524	1525	S	1502	QPS	ZG	0.00	594.55	3.25	594.55
15009	1535	1536	S	1501	QPS	ZG	0.00	594.55	3.23	594.55
15009	1538	1539	S	1502	QPS	ZG	0.00	594.55	3.25	594.55
15009	1540	1541	S	1502	QPS	ZG	0.00	594.55	3.25	594.55
15044	-4900	-4901	--	M	ZG	0.00	1500.00	0.36	1500.00	
15044	-4902	-4903	--	M	ZG	0.00	1500.00	0.36	1500.00	
15044	-4904	-4905	--	M	ZG	0.00	1500.00	0.36	1500.00	
15044	-4906	1558	--	M	ZG	0.00	1500.00	0.36	1500.00	
15087	-4907	-4908	--	M	ZG	0.00	550.00	0.36	550.00	
15087	-4909	-4910	--	M	ZG	0.00	550.00	0.36	550.00	
15087	-4911	-4912	--	M	ZG	0.00	550.00	0.36	550.00	
15087	-4913	-4914	--	M	ZG	0.00	550.00	0.36	550.00	
17001	1755	-5658	--	M	ZG	0.00	550.00	0.36	550.00	
17001	-5659	-5660	--	M	ZG	0.00	550.00	0.36	550.00	
17001	-5661	-5662	--	M	ZG	0.00	550.00	0.36	550.00	
17001	-5663	-5664	--	M	ZG	0.00	550.00	0.36	550.00	
17001	-5665	1756	--	M	ZG	0.00	550.00	0.36	550.00	
17003	-6155	-6156	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6157	-6158	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6159	-6160	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6161	-6162	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	1702	-6163	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6164	-6165	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6166	-6167	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6168	-6169	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6170	1703	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6171	-6172	S	1700	QPS	ZG	0.00	638.25	0.31	638.25

15003	-5392	-5393	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5394	-5395	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5396	1502	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5397	-5398	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5399	-5400	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5401	-5402	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5403	-5404	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	1503	-5405	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5405	-5406	S	1500	QPS	ZG	0.31	433.55	0.36	433.55
15003	-5407	-5408	S	1500	QPS	ZG	0.00	433.55	0.36	433.55
15003	-5409	-5410	S	1500	QPS	ZG	0.00	433.55	0.36	433.55
15003	-5410	-5411	S	1500	QPS	ZG	0.07	638.25	0.36	638.25
15003	1504	-5412	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5413	-5414	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5415	-5416	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5417	-5418	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5419	1505	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5420	-5421	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5422	-5423	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5424	-5425	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5426	-5427	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	1506	1507	S	1500	QPS	ZG	0.00	638.25	3.25	638.25
15007	1521	1522	S	1500	QPS	ZG	0.00	638.25	3.23	638.25
15007	1522	1585	S	1500	QPS	ZG	0.00	638.25	3.23	638.25
15007	1587	1588	S	1500	QPS	ZG	0.00	638.25	0.65	638.25
15007	1588	1523	S	1500	QPS	ZG	0.00	638.25	3.25	638.25
15007	1523	1524	S	1500	QPS	ZG	0.00	638.25	3.25	638.25
15007	1524	1525	S	1500	QPS	ZG	0.00	638.25	3.25	638.25
15009	1536	1537	S	1501	QPS	ZG	0.00	594.55	3.23	594.55
15009	1539	1540	S	1502	QPS	ZG	0.00	594.55	3.25	594.55
15044	1557	-4900	--	M	ZG	0.00	1500.00	0.36	1500.00	
15044	-4901	-4902	--	M	ZG	0.00	1500.00	0.36	1500.00	
15044	-4903	-4904	--	M	ZG	0.00	1500.00	0.36	1500.00	
15044	-4905	-4906	--	M	ZG	0.00	1500.00	0.36	1500.00	
15087	1559	-4907	--	M	ZG	0.00	550.00	0.36	550.00	
15087	-4908	-4909	--	M	ZG	0.00	550.00	0.36	550.00	
15087	-4910	-4911	--	M	ZG	0.00	550.00	0.36	550.00	
15087	-4912	-4913	--	M	ZG	0.00	550.00	0.36	550.00	
15087	-4914	1560	--	M	ZG	0.00	550.00	0.36	550.00	
17001	-5658	-5659	--	M	ZG	0.00	550.00	0.36	550.00	
17001	-5660	-5661	--	M	ZG	0.00	550.00	0.36	550.00	
17001	-5662	-5663	--	M	ZG	0.00	550.00	0.36	550.00	
17001	-5664	-5665	--	M	ZG	0.00	550.00	0.36	550.00	
17003	1701	-6155	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6156	-6157	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6158	-6159	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6160	-6161	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6162	1702	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6163	-6164	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6165	-6166	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6167	-6168	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6169	-6170	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	1703	-6171	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6171	-6172	S	1700	QPS	ZG	0.31	433.55	0.36	433.55

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17003	-6172	-6173	S	1700	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6174	-6175	S	1700	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6176	-6177	S	1700	QPS	ZG	0.00	433.55	0.07	433.55
17003	-6177	1704	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6178	-6179	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6180	-6181	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6182	-6183	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6184	-6185	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	1705	-6186	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6187	-6188	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6189	-6190	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6191	-6192	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6193	1706	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17007	1721	1722	S	1700	QPS	ZG	0.00	638.25	3.23	638.25
17007	1722	1785	S	1700	QPS	ZG	0.00	638.25	3.23	638.25
17007	1785	1786	S	1700	QPS	ZG	0.00	638.25	0.67	638.25
17007	1788	1723	S	1700	QPS	ZG	0.00	638.25	3.25	638.25
17007	1723	1724	S	1700	QPS	ZG	0.00	638.25	3.25	638.25
17007	1724	1725	S	1700	QPS	ZG	0.00	638.25	3.25	638.25
17009	1735	1736	S	1701	QPS	ZG	0.00	594.55	3.23	594.55
17009	1738	1739	S	1702	QPS	ZG	0.00	594.55	3.25	594.55
17009	1740	1741	S	1702	QPS	ZG	0.00	594.55	3.25	594.55
17044	-5666	-5667	-	--	M	ZG	0.00	1500.00	0.36	1500.00
17044	-5668	-5669	-	--	M	ZG	0.00	1500.00	0.36	1500.00
17044	-5670	-5671	-	--	M	ZG	0.00	1500.00	0.36	1500.00
17044	-5672	1758	-	--	M	ZG	0.00	1500.00	0.36	1500.00
17087	-5673	-5674	-	--	M	ZG	0.00	550.00	0.36	550.00
17087	-5675	-5676	-	--	M	ZG	0.00	550.00	0.36	550.00
17087	-5677	-5678	-	--	M	ZG	0.00	550.00	0.36	550.00
17087	-5679	-5680	-	--	M	ZG	0.00	550.00	0.36	550.00
19001	1955	-6423	-	--	M	ZG	0.00	550.00	0.36	550.00
19001	-6424	-6425	-	--	M	ZG	0.00	550.00	0.36	550.00
19001	-6426	-6427	-	--	M	ZG	0.00	550.00	0.36	550.00
19001	-6428	-6429	-	--	M	ZG	0.00	550.00	0.36	550.00
19001	-6430	1956	-	--	M	ZG	0.00	550.00	0.36	550.00
19003	-6920	-6921	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6922	-6923	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6924	-6925	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6926	-6927	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	1902	-6928	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6929	-6930	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6931	-6932	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6933	-6934	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6935	1903	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6936	-6937	S	1902	QPS	ZG	0.00	638.25	0.31	638.25
19003	-6937	-6938	S	1902	QPS	ZG	0.00	433.55	0.36	433.55
19003	-6939	-6940	S	1902	QPS	ZG	0.00	433.55	0.36	433.55
19003	-6941	-6942	S	1902	QPS	ZG	0.00	433.55	0.07	433.55
19003	-6942	1904	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6943	-6944	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6945	-6946	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6947	-6948	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6949	-6950	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	1905	-6951	S	1902	QPS	ZG	0.00	638.25	0.36	638.25

17003	-6173	-6174	S	1700	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6175	-6176	S	1700	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6176	-6177	S	1700	QPS	ZG	0.07	638.25	0.36	638.25
17003	1704	-6178	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6179	-6180	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6181	-6182	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6183	-6184	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6185	1705	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6186	-6187	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6188	-6189	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6190	-6191	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6192	-6193	S	1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	1706	1707	S	1700	QPS	ZG	0.00	638.25	3.25	638.25
17007	1721	1722	S	1701	QPS	ZG	0.00	594.55	3.23	594.55
17007	1722	1785	S	1701	QPS	ZG	0.00	594.55	3.23	594.55
17007	1787	1788	S	1700	QPS	ZG	0.00	638.25	0.65	638.25
17007	1788	1723	S	1702	QPS	ZG	0.00	594.55	3.25	594.55
17007	1723	1724	S	1702	QPS	ZG	0.00	594.55	3.25	594.55
17007	1724	1725	S	1702	QPS	ZG	0.00	594.55	3.25	594.55
17009	1736	1737	S	1701	QPS	ZG	0.00	594.55	3.23	594.55
17009	1739	1740	S	1702	QPS	ZG	0.00	594.55	3.25	594.55
17044	1757	-5666	-	--	M	ZG	0.00	1500.00	0.36	1500.00
17044	-5667	-5668	-	--	M	ZG	0.00	1500.00	0.36	1500.00
17044	-5669	-5670	-	--	M	ZG	0.00	1500.00	0.36	1500.00
17044	-5671	-5672	-	--	M	ZG	0.00	1500.00	0.36	1500.00
17087	1759	-5673	-	--	M	ZG	0.00	550.00	0.36	550.00
17087	-5674	-5675	-	--	M	ZG	0.00	550.00	0.36	550.00
17087	-5676	-5677	-	--	M	ZG	0.00	550.00	0.36	550.00
17087	-5678	-5679	-	--	M	ZG	0.00	550.00	0.36	550.00
17087	-5680	1760	-	--	M	ZG	0.00	550.00	0.36	550.00
19001	-6423	-6424	-	--	M	ZG	0.00	550.00	0.36	550.00
19001	-6425	-6426	-	--	M	ZG	0.00	550.00	0.36	550.00
19001	-6427	-6428	-	--	M	ZG	0.00	550.00	0.36	550.00
19001	-6429	-6430	-	--	M	ZG	0.00	550.00	0.36	550.00
19003	1901	-6920	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6921	-6922	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6923	-6924	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6925	-6926	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6927	1902	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6928	-6929	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6930	-6931	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6932	-6933	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6934	-6935	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	1903	-6936	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6936	-6937	S	1902	QPS	ZG	0.31	433.55	0.36	433.55
19003	-6938	-6939	S	1902	QPS	ZG	0.00	433.55	0.36	433.55
19003	-6940	-6941	S	1902	QPS	ZG	0.00	433.55	0.36	433.55
19003	-6941	-6942	S	1902	QPS	ZG	0.07	638.25	0.36	638.25
19003	1904	-6943	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6944	-6945	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6946	-6947	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6948	-6949	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6950	1905	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6951	-6952	S	1902	QPS	ZG	0.00	638.25	0.36	638.25

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19003	-6952	-6953	S	1902	QPS	ZG	0.00	638.25	0.36	638.25	19003	-6953	-6954	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6954	-6955	S	1902	QPS	ZG	0.00	638.25	0.36	638.25	19003	-6955	-6956	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6956	-6957	S	1902	QPS	ZG	0.00	638.25	0.36	638.25	19003	-6957	-6958	S	1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6958	1906	S	1902	QPS	ZG	0.00	638.25	0.36	638.25	19003	1906	1907	S	1902	QPS	ZG	0.00	638.25	3.25	638.25
19007	1921	1922	S	1901	QPS	ZG	0.00	594.55	3.23	594.55	19007	1921	1922	S	1902	QPS	ZG	0.00	638.25	3.23	638.25
19007	1922	1985	S	1901	QPS	ZG	0.00	594.55	3.23	594.55	19007	1922	1985	S	1902	QPS	ZG	0.00	638.25	3.23	638.25
19007	1985	1986	S	1902	QPS	ZG	0.00	638.25	0.67	638.25	19007	1987	1988	S	1902	QPS	ZG	0.00	638.25	0.65	638.25
19007	1988	1923	S	1900	QPS	ZG	0.00	594.55	3.25	594.55	19007	1988	1923	S	1902	QPS	ZG	0.00	638.25	3.25	638.25
19007	1923	1924	S	1900	QPS	ZG	0.00	594.55	3.25	594.55	19007	1923	1924	S	1902	QPS	ZG	0.00	638.25	3.25	638.25
19007	1924	1925	S	1900	QPS	ZG	0.00	594.55	3.25	594.55	19007	1924	1925	S	1902	QPS	ZG	0.00	638.25	3.25	638.25
19009	1935	1936	S	1901	QPS	ZG	0.00	594.55	3.23	594.55	19009	1936	1937	S	1901	QPS	ZG	0.00	594.55	3.23	594.55
19009	1938	1939	S	1900	QPS	ZG	0.00	594.55	3.25	594.55	19009	1939	1940	S	1900	QPS	ZG	0.00	594.55	3.25	594.55
19009	1940	1941	S	1900	QPS	ZG	0.00	594.55	3.25	594.55	19044	1957	-6431	---	M	ZG	0.00	550.00	0.36	550.00	
19044	-6431	-6432	---	M	ZG	0.00	550.00	0.36	550.00	19044	-6432	-6433	---	M	ZG	0.00	550.00	0.36	550.00		
19044	-6433	-6434	---	M	ZG	0.00	550.00	0.36	550.00	19044	-6434	-6435	---	M	ZG	0.00	550.00	0.36	550.00		
19044	-6435	-6436	---	M	ZG	0.00	550.00	0.36	550.00	19044	-6436	-6437	---	M	ZG	0.00	550.00	0.36	550.00		
19044	-6437	1958	---	M	ZG	0.00	550.00	0.36	550.00	19087	1959	-6438	---	M	ZG	0.00	550.00	0.36	550.00		
19087	-6438	-6439	---	M	ZG	0.00	550.00	0.36	550.00	19087	-6439	-6440	---	M	ZG	0.00	550.00	0.36	550.00		
19087	-6440	-6441	---	M	ZG	0.00	550.00	0.36	550.00	19087	-6441	-6442	---	M	ZG	0.00	550.00	0.36	550.00		
19087	-6442	-6443	---	M	ZG	0.00	550.00	0.36	550.00	19087	-6443	-6444	---	M	ZG	0.00	550.00	0.36	550.00		
19087	-6444	-6445	---	M	ZG	0.00	550.00	0.36	550.00	19087	-6445	1960	---	M	ZG	0.00	550.00	0.36	550.00		
22010	1	21	S	2216	QPS	ZG	0.00	323.00	5.55	323.00	22010	21	35	S	2217	QPS	ZG	0.00	323.00	5.17	323.00
22011	2	22	S	2214	QPS	ZG	0.00	323.00	5.55	323.00	22011	2	22	S	2216	QPS	ZG	0.00	323.00	5.55	323.00
22011	22	36	S	2215	QPS	ZG	0.00	323.00	5.17	323.00	22011	22	36	S	2217	QPS	ZG	0.00	323.00	5.17	323.00
22012	3	57	S	2201	QPS	ZG	0.00	290.00	2.66	290.00	22012	3	57	S	2214	QPS	ZG	0.00	323.00	2.66	323.00
22012	57	-98	S	2201	QPS	ZG	0.00	290.00	1.11	290.00	22012	57	-98	S	2214	QPS	ZG	0.00	323.00	1.11	323.00
22012	-98	-116	S	2201	QPS	ZG	0.00	290.00	0.59	290.00	22012	-98	-116	S	2214	QPS	ZG	0.00	323.00	0.59	323.00
22012	-116	-133	S	2201	QPS	ZG	0.00	290.00	0.59	290.00	22012	-116	-133	S	2214	QPS	ZG	0.00	323.00	0.59	323.00
22012	-133	-150	S	2201	QPS	ZG	0.00	290.00	0.59	290.00	22012	-133	-150	S	2214	QPS	ZG	0.00	323.00	0.59	323.00
22012	-150	-171	S	2200	QPS	ZG	0.00	290.00	1.11	290.00	22012	-150	-171	S	2215	QPS	ZG	0.00	323.00	1.11	323.00
22012	-171	37	S	2200	QPS	ZG	0.00	290.00	4.06	290.00	22012	-171	37	S	2215	QPS	ZG	0.00	323.00	4.06	323.00
22017	4	58	S	2201	QPS	ZG	0.00	290.00	2.66	290.00	22017	4	58	S	2218	QPS	ZG	0.00	325.00	2.66	325.00
22017	58	-102	S	2201	QPS	ZG	0.00	290.00	1.11	290.00	22017	58	-102	S	2218	QPS	ZG	0.00	325.00	1.11	325.00
22017	-102	-120	S	2201	QPS	ZG	0.00	290.00	0.59	290.00	22017	-102	-120	S	2218	QPS	ZG	0.00	325.00	0.59	325.00
22017	-120	-137	S	2201	QPS	ZG	0.00	290.00	0.59	290.00	22017	-120	-137	S	2218	QPS	ZG	0.00	325.00	0.59	325.00
22017	-137	-154	S	2201	QPS	ZG	0.00	290.00	0.59	290.00	22017	-137	-154	S	2218	QPS	ZG	0.00	325.00	0.59	325.00
22017	-154	-175	S	2200	QPS	ZG	0.00	290.00	1.11	290.00	22017	-154	-175	S	2219	QPS	ZG	0.00	325.00	1.11	325.00
22017	-175	38	S	2200	QPS	ZG	0.00	290.00	4.06	290.00	22017	-175	38	S	2219	QPS	ZG	0.00	325.00	4.06	325.00
22018	5	23	S	2213	QPS	ZG	0.00	325.00	5.55	325.00	22018	5	23	S	2218	QPS	ZG	0.00	325.00	5.55	325.00
22018	23	39	S	2212	QPS	ZG	0.00	325.00	5.17	325.00	22018	23	39	S	2219	QPS	ZG	0.00	325.00	5.17	325.00
22019	6	24	S	2210	QPS	ZG	0.00	325.00	5.55	325.00	22019	6	24	S	2213	QPS	ZG	0.00	325.00	5.55	325.00
22019	24	40	S	2211	QPS	ZG	0.00	325.00	5.17	325.00	22019	24	40	S	2212	QPS	ZG	0.00	325.00	5.17	325.00
22020	7	25	S	2210	QPS	ZG	0.00	325.00	5.55	325.00	22020	25	41	S	2211	QPS	ZG	0.00	325.00	5.17	325.00

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>	Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1679	-1680	S	508	QPN	ZG	0.00	358.15	0.79	358.15	0	-1680	-1681	S	508	QPN	ZG	0.00	358.15	0.79	358.15
0	-2444	-2445	S	708	QPN	ZG	0.00	358.15	0.79	358.15	0	-2445	-2446	S	708	QPN	ZG	0.00	358.15	0.79	358.15
0	437	-1034	T	222	QPN	ZG	0.00	450.00	1.45	450.00	0	-1034	438	T	222	QPN	ZG	0.00	450.00	1.45	450.00
0	-3209	-3210	S	908	QPN	ZG	0.00	358.15	0.79	358.15	0	-3210	-3211	S	908	QPN	ZG	0.00	358.15	0.79	358.15
0	637	-1799	T	422	QPN	ZG	0.00	450.00	1.45	450.00	0	-1799	638	T	422	QPN	ZG	0.00	450.00	1.45	450.00
0	-3974	-3975	S	1101	QPN	ZG	0.00	358.15	0.79	358.15	0	-3975	-3976	S	1101	QPN	ZG	0.00	358.15	0.79	358.15
0	837	-2564	T	622	QPN	ZG	0.00	450.00	1.45	450.00	0	-2564	838	T	622	QPN	ZG	0.00	450.00	1.45	450.00

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0	-4739	-4740	S1300	QPN	ZG	0.00	358.15	0.79	358.15	0	-4740	-4741	S1300	QPN	ZG	0.00	358.15	0.79	358.15
0	1037	-3329	T822	QPN	ZG	0.00	450.00	1.45	450.00	0	-3329	1038	T822	QPN	ZG	0.00	450.00	1.45	450.00
0	-5504	-5505	S1500	QPN	ZG	0.00	358.15	0.79	358.15	0	-5505	-5506	S1500	QPN	ZG	0.00	358.15	0.79	358.15
0	1237	-4094	T1022	QPN	ZG	0.00	450.00	1.45	450.00	0	-4094	1238	T1022	QPN	ZG	0.00	450.00	1.45	450.00
0	-6270	-6271	S1700	QPN	ZG	0.00	358.15	0.79	358.15	0	-6271	-6272	S1700	QPN	ZG	0.00	358.15	0.79	358.15
0	1437	-4859	T1222	QPN	ZG	0.00	450.00	1.45	450.00	0	-4859	1438	T1222	QPN	ZG	0.00	450.00	1.45	450.00
0	-7035	-7036	S1902	QPN	ZG	0.00	754.00	0.79	754.00	0	-7036	-7037	S1902	QPN	ZG	0.00	754.00	0.79	754.00
0	1637	-5625	T1422	QPN	ZG	0.00	450.00	1.45	450.00	0	-5625	1638	T1422	QPN	ZG	0.00	450.00	1.45	450.00
0	1837	-6390	T1622	QPN	ZG	0.00	450.00	1.45	450.00	3003	301	-790	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	301	-790	T101	QPN	ZG	0.00	900.00	0.36	900.00	3003	-790	-791	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-790	-791	T101	QPN	ZG	0.00	900.00	0.36	900.00	3003	-791	-792	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-791	-792	T101	QPN	ZG	0.00	900.00	0.36	900.00	3003	-792	-793	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-792	-793	T101	QPN	ZG	0.00	900.00	0.36	900.00	3003	-793	-794	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-793	-794	T101	QPN	ZG	0.00	900.00	0.36	900.00	3003	-794	-795	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-794	-795	T101	QPN	ZG	0.00	900.00	0.36	900.00	3003	-795	-796	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-795	-796	T101	QPN	ZG	0.00	900.00	0.36	900.00	3003	-796	-797	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-796	-797	T101	QPN	ZG	0.00	900.00	0.36	900.00	3003	-797	302	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-797	302	T101	QPN	ZG	0.00	900.00	0.36	900.00	3003	302	-798	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	302	-798	T102	QPN	ZG	0.00	900.00	0.36	900.00	3003	-798	-799	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-798	-799	T102	QPN	ZG	0.00	900.00	0.36	900.00	3003	-799	-800	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-799	-800	T102	QPN	ZG	0.00	900.00	0.36	900.00	3003	-800	-801	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-800	-801	T102	QPN	ZG	0.00	900.00	0.36	900.00	3003	-801	-802	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-801	-802	T102	QPN	ZG	0.00	900.00	0.36	900.00	3003	-802	-803	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-802	-803	T102	QPN	ZG	0.00	900.00	0.36	900.00	3003	-803	-804	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-803	-804	T102	QPN	ZG	0.00	900.00	0.36	900.00	3003	-804	-805	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-804	-805	T102	QPN	ZG	0.00	900.00	0.36	900.00	3003	-805	303	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-805	303	T102	QPN	ZG	0.00	900.00	0.36	900.00	3003	303	-806	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	303	-806	T103	QPN	ZG	0.00	900.00	0.36	900.00	3003	-806	-807	S308	QPN	ZG	0.00	527.25	0.31	527.25
3003	-806	-807	T103	QPN	ZG	0.00	900.00	0.36	900.00	3003	-806	-807	S308	QPN	ZG	0.31	358.15	0.36	358.15
3003	-807	-808	S308	QPN	ZG	0.00	358.15	0.36	358.15	3003	-807	-808	T103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-808	-809	S308	QPN	ZG	0.00	358.15	0.36	358.15	3003	-808	-809	T103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-809	-810	S308	QPN	ZG	0.00	358.15	0.36	358.15	3003	-809	-810	T103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-810	-811	S308	QPN	ZG	0.00	358.15	0.36	358.15	3003	-810	-811	T103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-811	-812	S308	QPN	ZG	0.00	358.15	0.07	358.15	3003	-811	-812	T103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-811	-812	S308	QPN	ZG	0.07	527.25	0.36	527.25	3003	-812	304	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-812	304	T103	QPN	ZG	0.00	900.00	0.36	900.00	3003	304	-813	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	304	-813	T104	QPN	ZG	0.00	900.00	0.36	900.00	3003	-813	-814	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-813	-814	T104	QPN	ZG	0.00	900.00	0.36	900.00	3003	-814	-815	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-814	-815	T104	QPN	ZG	0.00	900.00	0.36	900.00	3003	-815	-816	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-815	-816	T104	QPN	ZG	0.00	900.00	0.36	900.00	3003	-816	-817	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-816	-817	T104	QPN	ZG	0.00	900.00	0.36	900.00	3003	-817	-818	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-817	-818	T104	QPN	ZG	0.00	900.00	0.36	900.00	3003	-818	-819	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-818	-819	T104	QPN	ZG	0.00	900.00	0.36	900.00	3003	-819	-820	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-819	-820	T104	QPN	ZG	0.00	900.00	0.36	900.00	3003	-820	305	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-820	305	T104	QPN	ZG	0.00	900.00	0.36	900.00	3003	305	-821	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	305	-821	T105	QPN	ZG	0.00	900.00	0.36	900.00	3003	-821	-822	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-821	-822	T105	QPN	ZG	0.00	900.00	0.36	900.00	3003	-822	-823	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-822	-823	T105	QPN	ZG	0.00	900.00	0.36	900.00	3003	-823	-824	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-823	-824	T105	QPN	ZG	0.00	900.00	0.36	900.00	3003	-824	-825	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-824	-825	T105	QPN	ZG	0.00	900.00	0.36	900.00	3003	-825	-826	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-825	-826	T105	QPN	ZG	0.00	900.00	0.36	900.00	3003	-826	-827	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-826	-827	T105	QPN	ZG	0.00	900.00	0.36	900.00	3003	-827	-828	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-827	-828	T105	QPN	ZG	0.00	900.00	0.36	900.00	3003	-828	306	S308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-828	306	T105	QPN	ZG	0.00	900.00	0.36	900.00	3003	306	307	S308	QPN	ZG	0.00	527.25	3.25	527.25

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3003	306	307	T	106	QPN	ZG	0.00	900.00	3.25	900.00	3006	-905	-906	S	308	QPN	ZG	0.00	358.15	0.79	358.15
3006	-906	-907	S	308	QPN	ZG	0.00	358.15	0.79	358.15	3007	321	322	S	300	QPN	ZG	0.00	491.15	3.23	491.15
3007	321	322	S	308	QPN	ZG	0.00	527.25	3.23	527.25	3007	322	385	S	300	QPN	ZG	0.00	491.15	3.23	491.15
3007	322	385	S	308	QPN	ZG	0.00	527.25	3.23	527.25	3007	385	386	S	308	QPN	ZG	0.00	527.25	0.67	527.25
3007	387	388	S	308	QPN	ZG	0.00	527.25	0.65	527.25	3007	388	323	S	301	QPN	ZG	0.00	491.15	3.25	491.15
3007	388	323	S	308	QPN	ZG	0.00	527.25	3.25	527.25	3007	323	324	S	301	QPN	ZG	0.00	491.15	3.25	491.15
3007	323	324	S	308	QPN	ZG	0.00	527.25	3.25	527.25	3007	324	325	S	301	QPN	ZG	0.00	491.15	3.25	491.15
3007	324	325	S	308	QPN	ZG	0.00	527.25	3.25	527.25	3009	335	336	S	300	QPN	ZG	0.00	491.15	3.23	491.15
3009	335	336	T	120	QPN	ZG	0.00	900.00	3.23	900.00	3009	336	337	S	300	QPN	ZG	0.00	491.15	3.23	491.15
3009	336	337	T	121	QPN	ZG	0.00	900.00	3.23	900.00	3009	337	-953	T	122	QPN	ZG	0.00	450.00	0.72	450.00
3009	-953	-954	T	122	QPN	ZG	0.00	450.00	0.72	450.00	3009	-954	-955	T	122	QPN	ZG	0.00	450.00	0.72	450.00
3009	-955	338	T	122	QPN	ZG	0.00	450.00	0.72	450.00	3009	338	339	S	301	QPN	ZG	0.00	491.15	3.25	491.15
3009	338	339	T	123	QPN	ZG	0.00	900.00	3.25	900.00	3009	339	340	S	301	QPN	ZG	0.00	491.15	3.25	491.15
3009	339	340	T	124	QPN	ZG	0.00	900.00	3.25	900.00	3009	340	341	S	301	QPN	ZG	0.00	491.15	3.25	491.15
3009	340	341	T	125	QPN	ZG	0.00	900.00	3.25	900.00	3010	301	321	T	139	QPN	ZG	0.00	900.00	5.55	900.00
3010	321	335	T	140	QPN	ZG	0.00	900.00	5.17	900.00	3013	-438	357	T	141	QPN	ZG	0.00	510.00	0.40	510.00
3013	-525	-438	T	141	QPN	ZG	0.00	510.00	0.40	510.00	3013	374	-525	T	141	QPN	ZG	0.00	510.00	0.40	510.00
3013	374	-733	T	141	QPN	ZG	0.00	510.00	0.35	510.00	3013	-733	303	T	141	QPN	ZG	0.00	510.00	0.35	510.00
3016	358	-439	T	142	QPN	ZG	0.00	510.00	0.40	510.00	3016	-439	-526	T	142	QPN	ZG	0.00	510.00	0.40	510.00
3016	-526	375	T	142	QPN	ZG	0.00	510.00	0.40	510.00	3016	375	-734	T	142	QPN	ZG	0.00	510.00	0.35	510.00
3016	-734	304	T	142	QPN	ZG	0.00	510.00	0.35	510.00	5003	501	-1564	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	501	-1564	T	201	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1564	-1565	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1564	-1565	T	201	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1565	-1566	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1565	-1566	T	201	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1566	-1567	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1566	-1567	T	201	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1567	-1568	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1567	-1568	T	201	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1568	-1569	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1568	-1569	T	201	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1569	-1570	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1569	-1570	T	201	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1570	-1571	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1570	-1571	T	201	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1571	502	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1571	502	T	201	QPN	ZG	0.00	900.00	0.36	900.00	5003	502	-1572	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	502	-1572	T	202	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1572	-1573	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1572	-1573	T	202	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1573	-1574	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1573	-1574	T	202	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1574	-1575	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1574	-1575	T	202	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1575	-1576	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1575	-1576	T	202	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1576	-1577	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1576	-1577	T	202	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1577	-1578	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1577	-1578	T	202	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1578	-1579	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1578	-1579	T	202	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1579	503	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1579	503	T	202	QPN	ZG	0.00	900.00	0.36	900.00	5003	503	-1580	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	503	-1580	T	203	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1580	-1581	S	508	QPN	ZG	0.00	527.25	0.31	527.25
5003	-1580	-1581	T	203	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1580	-1581	S	508	QPN	ZG	0.31	358.15	0.36	358.15
5003	-1581	-1582	S	508	QPN	ZG	0.00	358.15	0.36	358.15	5003	-1581	-1582	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1582	-1583	S	508	QPN	ZG	0.00	358.15	0.36	358.15	5003	-1582	-1583	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1583	-1584	S	508	QPN	ZG	0.00	358.15	0.36	358.15	5003	-1583	-1584	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1584	-1585	S	508	QPN	ZG	0.00	358.15	0.36	358.15	5003	-1584	-1585	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1585	-1586	S	508	QPN	ZG	0.00	358.15	0.07	358.15	5003	-1585	-1586	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1585	-1586	S	508	QPN	ZG	0.07	527.25	0.36	527.25	5003	-1586	504	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1586	504	T	203	QPN	ZG	0.00	900.00	0.36	900.00	5003	504	-1587	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	504	-1587	T	204	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1587	-1588	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1587	-1588	T	204	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1588	-1589	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1588	-1589	T	204	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1589	-1590	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1589	-1590	T	204	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1590	-1591	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1590	-1591	T	204	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1591	-1592	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1591	-1592	T	204	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1592	-1593	S	508	QPN	ZG	0.00	527.25	0.36	527.25

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5003	-1592	-1593	T	204	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1593	-1594	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1593	-1594	T	204	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1594	505	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1594	505	T	204	QPN	ZG	0.00	900.00	0.36	900.00	5003	505	-1595	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	505	-1595	T	205	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1595	-1596	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1595	-1596	T	205	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1596	-1597	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1596	-1597	T	205	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1597	-1598	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1597	-1598	T	205	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1598	-1599	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1598	-1599	T	205	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1599	-1600	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1599	-1600	T	205	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1600	-1601	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1600	-1601	T	205	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1601	-1602	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1601	-1602	T	205	QPN	ZG	0.00	900.00	0.36	900.00	5003	-1602	506	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1602	506	T	205	QPN	ZG	0.00	900.00	0.36	900.00	5003	506	507	S	508	QPN	ZG	0.00	527.25	3.25	527.25
5003	506	507	T	206	QPN	ZG	0.00	900.00	3.25	900.00	5007	521	522	S	500	QPN	ZG	0.00	491.15	3.23	491.15
5007	521	522	S	508	QPN	ZG	0.00	527.25	3.23	527.25	5007	522	585	S	500	QPN	ZG	0.00	491.15	3.23	491.15
5007	522	585	S	508	QPN	ZG	0.00	527.25	3.23	527.25	5007	585	586	S	508	QPN	ZG	0.00	527.25	0.67	527.25
5007	587	588	S	508	QPN	ZG	0.00	527.25	0.65	527.25	5007	588	523	S	501	QPN	ZG	0.00	491.15	3.25	491.15
5007	588	523	S	508	QPN	ZG	0.00	527.25	3.25	527.25	5007	523	524	S	501	QPN	ZG	0.00	491.15	3.25	491.15
5007	523	524	S	508	QPN	ZG	0.00	527.25	3.25	527.25	5007	524	525	S	501	QPN	ZG	0.00	491.15	3.25	491.15
5007	524	525	S	508	QPN	ZG	0.00	527.25	3.25	527.25	5009	535	536	S	500	QPN	ZG	0.00	491.15	3.23	491.15
5009	535	536	T	220	QPN	ZG	0.00	900.00	3.23	900.00	5009	536	537	S	500	QPN	ZG	0.00	491.15	3.23	491.15
5009	536	537	T	221	QPN	ZG	0.00	900.00	3.23	900.00	5009	537	538	T	322	QPN	ZG	0.00	450.00	2.90	450.00
5009	538	539	S	501	QPN	ZG	0.00	491.15	3.25	491.15	5009	538	539	T	223	QPN	ZG	0.00	900.00	3.25	900.00
5009	539	540	S	501	QPN	ZG	0.00	491.15	3.25	491.15	5009	539	540	T	224	QPN	ZG	0.00	900.00	3.25	900.00
5009	540	541	S	501	QPN	ZG	0.00	491.15	3.25	491.15	5009	540	541	T	225	QPN	ZG	0.00	900.00	3.25	900.00
5010	501	521	T	239	QPN	ZG	0.00	900.00	5.55	900.00	5010	521	535	T	240	QPN	ZG	0.00	900.00	5.17	900.00
5013	-1212	557	T	241	QPN	ZG	0.00	510.00	0.40	510.00	5013	-1299	-1212	T	241	QPN	ZG	0.00	510.00	0.40	510.00
5013	574	-1299	T	241	QPN	ZG	0.00	510.00	0.40	510.00	5013	574	-1507	T	241	QPN	ZG	0.00	510.00	0.35	510.00
5013	-1507	503	T	241	QPN	ZG	0.00	510.00	0.35	510.00	5016	558	-1213	T	242	QPN	ZG	0.00	510.00	0.40	510.00
5016	-1213	-1300	T	242	QPN	ZG	0.00	510.00	0.40	510.00	5016	-1300	575	T	242	QPN	ZG	0.00	510.00	0.40	510.00
5016	575	-1508	T	242	QPN	ZG	0.00	510.00	0.35	510.00	5016	-1508	504	T	242	QPN	ZG	0.00	510.00	0.35	510.00
7003	701	-2329	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	701	-2329	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2329	-2330	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2329	-2330	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2330	-2331	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2330	-2331	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2331	-2332	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2331	-2332	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2332	-2333	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2332	-2333	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2333	-2334	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2333	-2334	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2334	-2335	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2334	-2335	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2335	-2336	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2335	-2336	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2336	702	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2336	702	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	702	-2337	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	702	-2337	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2337	-2338	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2337	-2338	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2338	-2339	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2338	-2339	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2339	-2340	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2339	-2340	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2340	-2341	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2340	-2341	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2341	-2342	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2341	-2342	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2342	-2343	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2342	-2343	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2343	-2344	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2343	-2344	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2344	703	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2344	703	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	703	-2345	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	703	-2345	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2345	-2346	S	708	QPN	ZG	0.00	527.25	0.31	527.25	7003	-2345	-2346	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2345	-2346	S	708	QPN	ZG	0.31	358.15	0.36	358.15	7003	-2346	-2347	S	708	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2346	-2347	T	303	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2347	-2348	S	708	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2347	-2348	T	303	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2348	-2349	S	708	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2348	-2349	T	303	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2349	-2350	S	708	QPN	ZG	0.00	358.15	0.36	358.15

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7003	-2349	-2350	T	303	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2350	-2351	S	708	QPN	ZG	0.00	358.15	0.07	358.15
7003	-2350	-2351	T	303	QPN	ZG	0.00	900.00	0.36	900.00	7003	-2350	-2351	S	708	QPN	ZG	0.07	527.25	0.36	527.25
7003	-2351	704	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2351	704	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	704	-2352	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	704	-2352	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2352	-2353	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2352	-2353	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2353	-2354	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2353	-2354	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2354	-2355	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2354	-2355	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2355	-2356	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2355	-2356	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2356	-2357	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2356	-2357	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2357	-2358	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2357	-2358	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2358	-2359	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2358	-2359	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2359	705	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2359	705	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	705	-2360	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	705	-2360	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2360	-2361	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2360	-2361	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2361	-2362	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2361	-2362	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2362	-2363	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2362	-2363	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2363	-2364	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2363	-2364	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2364	-2365	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2364	-2365	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2365	-2366	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2365	-2366	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2366	-2367	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2366	-2367	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2367	706	S	708	QPN	ZG	0.00	527.25	0.36	527.25	7003	-2367	706	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	706	707	S	708	QPN	ZG	0.00	527.25	3.25	527.25	7003	706	707	T	306	QPN	ZG	0.00	900.00	3.25	900.00
7007	721	722	S	700	QPN	ZG	0.00	491.15	3.23	491.15	7007	721	722	S	708	QPN	ZG	0.00	527.25	3.23	527.25
7007	722	785	S	700	QPN	ZG	0.00	491.15	3.23	491.15	7007	722	785	S	708	QPN	ZG	0.00	527.25	3.23	527.25
7007	785	786	S	708	QPN	ZG	0.00	527.25	0.67	527.25	7007	787	788	S	708	QPN	ZG	0.00	527.25	0.65	527.25
7007	788	723	S	701	QPN	ZG	0.00	491.15	3.25	491.15	7007	788	723	S	708	QPN	ZG	0.00	527.25	3.25	527.25
7007	723	724	S	701	QPN	ZG	0.00	491.15	3.25	491.15	7007	723	724	S	708	QPN	ZG	0.00	527.25	3.25	527.25
7007	724	725	S	701	QPN	ZG	0.00	491.15	3.25	491.15	7007	724	725	S	708	QPN	ZG	0.00	527.25	3.25	527.25
7009	735	736	S	700	QPN	ZG	0.00	491.15	3.23	491.15	7009	735	736	T	320	QPN	ZG	0.00	900.00	3.23	900.00
7009	736	737	S	700	QPN	ZG	0.00	491.15	3.23	491.15	7009	736	737	T	321	QPN	ZG	0.00	900.00	3.23	900.00
7009	737	738	T	522	QPN	ZG	0.00	450.00	2.90	450.00	7009	738	739	S	701	QPN	ZG	0.00	491.15	3.25	491.15
7009	738	739	T	323	QPN	ZG	0.00	900.00	3.25	900.00	7009	739	740	S	701	QPN	ZG	0.00	491.15	3.25	491.15
7009	739	740	T	324	QPN	ZG	0.00	900.00	3.25	900.00	7009	740	741	S	701	QPN	ZG	0.00	491.15	3.25	491.15
7009	740	741	T	325	QPN	ZG	0.00	900.00	3.25	900.00	7010	701	721	T	339	QPN	ZG	0.00	900.00	5.55	900.00
7010	721	735	T	340	QPN	ZG	0.00	900.00	5.17	900.00	7013	-1977	757	T	341	QPN	ZG	0.00	510.00	0.40	510.00
7013	-2064	-1977	T	341	QPN	ZG	0.00	510.00	0.40	510.00	7013	774	-2064	T	341	QPN	ZG	0.00	510.00	0.40	510.00
7013	774	-2272	T	341	QPN	ZG	0.00	510.00	0.35	510.00	7013	-2272	703	T	341	QPN	ZG	0.00	510.00	0.35	510.00
7016	758	-1978	T	342	QPN	ZG	0.00	510.00	0.40	510.00	7016	-1978	-2065	T	342	QPN	ZG	0.00	510.00	0.40	510.00
7016	-2065	775	T	342	QPN	ZG	0.00	510.00	0.40	510.00	7016	775	-2273	T	342	QPN	ZG	0.00	510.00	0.35	510.00
7016	-2273	704	T	342	QPN	ZG	0.00	510.00	0.35	510.00	9003	901	-3094	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	901	-3094	T	401	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3094	-3095	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3094	-3095	T	401	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3095	-3096	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3095	-3096	T	401	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3096	-3097	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3096	-3097	T	401	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3097	-3098	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3097	-3098	T	401	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3098	-3099	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3098	-3099	T	401	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3099	-3100	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3099	-3100	T	401	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3100	-3101	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3100	-3101	T	401	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3101	902	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3101	902	T	401	QPN	ZG	0.00	900.00	0.36	900.00	9003	902	-3102	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	902	-3102	T	402	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3102	-3103	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3102	-3103	T	402	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3103	-3104	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3103	-3104	T	402	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3104	-3105	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3104	-3105	T	402	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3105	-3106	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3105	-3106	T	402	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3106	-3107	S	908	QPN	ZG	0.00	527.25	0.36	527.25

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9003	-3106	-3107	T	402	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3107	-3108	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3107	-3108	T	402	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3108	-3109	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3108	-3109	T	402	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3109	903	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3109	903	T	402	QPN	ZG	0.00	900.00	0.36	900.00	9003	903	-3110	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	903	-3110	T	403	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3110	-3111	S	908	QPN	ZG	0.00	527.25	0.31	527.25
9003	-3110	-3111	T	403	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3110	-3111	S	908	QPN	ZG	0.31	358.15	0.36	358.15
9003	-3111	-3112	S	908	QPN	ZG	0.00	358.15	0.36	358.15	9003	-3111	-3112	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3112	-3113	S	908	QPN	ZG	0.00	358.15	0.36	358.15	9003	-3112	-3113	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3113	-3114	S	908	QPN	ZG	0.00	358.15	0.36	358.15	9003	-3113	-3114	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3114	-3115	S	908	QPN	ZG	0.00	358.15	0.36	358.15	9003	-3114	-3115	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3115	-3116	S	908	QPN	ZG	0.00	358.15	0.07	358.15	9003	-3115	-3116	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3115	-3116	S	908	QPN	ZG	0.07	527.25	0.36	527.25	9003	-3116	904	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3116	904	T	403	QPN	ZG	0.00	900.00	0.36	900.00	9003	904	-3117	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	904	-3117	T	404	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3117	-3118	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3117	-3118	T	404	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3118	-3119	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3118	-3119	T	404	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3119	-3120	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3119	-3120	T	404	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3120	-3121	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3120	-3121	T	404	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3121	-3122	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3121	-3122	T	404	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3122	-3123	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3122	-3123	T	404	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3123	-3124	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3123	-3124	T	404	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3124	905	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3124	905	T	404	QPN	ZG	0.00	900.00	0.36	900.00	9003	905	-3125	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	905	-3125	T	405	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3125	-3126	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3125	-3126	T	405	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3126	-3127	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3126	-3127	T	405	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3127	-3128	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3127	-3128	T	405	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3128	-3129	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3128	-3129	T	405	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3129	-3130	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3129	-3130	T	405	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3130	-3131	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3130	-3131	T	405	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3131	-3132	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3131	-3132	T	405	QPN	ZG	0.00	900.00	0.36	900.00	9003	-3132	906	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3132	906	T	405	QPN	ZG	0.00	900.00	0.36	900.00	9003	906	907	S	908	QPN	ZG	0.00	527.25	3.25	527.25
9003	906	907	T	406	QPN	ZG	0.00	900.00	3.25	900.00	9007	921	922	S	900	QPN	ZG	0.00	491.15	3.23	491.15
9007	921	922	S	908	QPN	ZG	0.00	527.25	3.23	527.25	9007	922	985	S	900	QPN	ZG	0.00	491.15	3.23	491.15
9007	922	985	S	908	QPN	ZG	0.00	527.25	3.23	527.25	9007	985	986	S	908	QPN	ZG	0.00	527.25	0.67	527.25
9007	987	988	S	908	QPN	ZG	0.00	527.25	0.65	527.25	9007	988	923	S	901	QPN	ZG	0.00	491.15	3.25	491.15
9007	988	923	S	908	QPN	ZG	0.00	527.25	3.25	527.25	9007	923	924	S	901	QPN	ZG	0.00	491.15	3.25	491.15
9007	923	924	S	908	QPN	ZG	0.00	527.25	3.25	527.25	9007	924	925	S	901	QPN	ZG	0.00	491.15	3.25	491.15
9007	924	925	S	908	QPN	ZG	0.00	527.25	3.25	527.25	9009	935	936	S	900	QPN	ZG	0.00	491.15	3.23	491.15
9009	935	936	T	420	QPN	ZG	0.00	900.00	3.23	900.00	9009	936	937	S	900	QPN	ZG	0.00	491.15	3.23	491.15
9009	936	937	T	421	QPN	ZG	0.00	900.00	3.23	900.00	9009	937	938	T	722	QPN	ZG	0.00	450.00	2.90	450.00
9009	938	939	S	901	QPN	ZG	0.00	491.15	3.25	491.15	9009	938	939	T	423	QPN	ZG	0.00	900.00	3.25	900.00
9009	939	940	S	901	QPN	ZG	0.00	491.15	3.25	491.15	9009	939	940	T	424	QPN	ZG	0.00	900.00	3.25	900.00
9009	940	941	S	901	QPN	ZG	0.00	491.15	3.25	491.15	9009	940	941	T	425	QPN	ZG	0.00	900.00	3.25	900.00
9010	901	921	T	439	QPN	ZG	0.00	900.00	5.55	900.00	9010	921	935	T	440	QPN	ZG	0.00	900.00	5.17	900.00
9013	-2742	957	T	441	QPN	ZG	0.00	510.00	0.40	510.00	9013	-2829	-2742	T	441	QPN	ZG	0.00	510.00	0.40	510.00
9013	974	-2829	T	441	QPN	ZG	0.00	510.00	0.40	510.00	9013	974	-3037	T	441	QPN	ZG	0.00	510.00	0.35	510.00
9013	-3037	903	T	441	QPN	ZG	0.00	510.00	0.35	510.00	9016	958	-2743	T	442	QPN	ZG	0.00	510.00	0.40	510.00
9016	-2743	-2830	T	442	QPN	ZG	0.00	510.00	0.40	510.00	9016	-2830	975	T	442	QPN	ZG	0.00	510.00	0.40	510.00
9016	975	-3038	T	442	QPN	ZG	0.00	510.00	0.35	510.00	9016	-3038	904	T	442	QPN	ZG	0.00	510.00	0.35	510.00
11003	1101	-3859	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	1101	-3859	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3859	-3860	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3859	-3860	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3860	-3861	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3860	-3861	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3861	-3862	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3861	-3862	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3862	-3863	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3862	-3863	T	501	QPN	ZG	0.00	900.00	0.36	900.00

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11003	-3863	-3864	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3863	-3864	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3864	-3865	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3864	-3865	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3865	-3866	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3865	-3866	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3866	1102	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3866	1102	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	1102	-3867	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	1102	-3867	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3867	-3868	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3867	-3868	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3868	-3869	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3868	-3869	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3869	-3870	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3869	-3870	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3870	-3871	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3870	-3871	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3871	-3872	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3871	-3872	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3872	-3873	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3872	-3873	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3873	-3874	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3873	-3874	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3874	1103	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3874	1103	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	1103	-3875	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	1103	-3875	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3875	-3876	S	1101	QPN	ZG	0.00	527.25	0.31	527.25	11003	-3875	-3876	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3875	-3876	S	1101	QPN	ZG	0.31	358.15	0.36	358.15	11003	-3876	-3877	S	1101	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3876	-3877	T	503	QPN	ZG	0.00	900.00	0.36	900.00	11003	-3877	-3878	S	1101	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3877	-3878	T	503	QPN	ZG	0.00	900.00	0.36	900.00	11003	-3878	-3879	S	1101	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3878	-3879	T	503	QPN	ZG	0.00	900.00	0.36	900.00	11003	-3879	-3880	S	1101	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3879	-3880	T	503	QPN	ZG	0.00	900.00	0.36	900.00	11003	-3880	-3881	S	1101	QPN	ZG	0.00	358.15	0.07	358.15
11003	-3880	-3881	T	503	QPN	ZG	0.00	900.00	0.36	900.00	11003	-3880	-3881	S	1101	QPN	ZG	0.07	527.25	0.36	527.25
11003	-3881	1104	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3881	1104	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	1104	-3882	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	1104	-3882	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3882	-3883	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3882	-3883	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3883	-3884	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3883	-3884	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3884	-3885	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3884	-3885	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3885	-3886	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3885	-3886	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3886	-3887	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3886	-3887	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3887	-3888	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3887	-3888	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3888	-3889	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3888	-3889	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3889	1105	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3889	1105	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	1105	-3890	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	1105	-3890	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3890	-3891	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3890	-3891	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3891	-3892	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3891	-3892	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3892	-3893	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3892	-3893	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3893	-3894	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3893	-3894	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3894	-3895	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3894	-3895	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3895	-3896	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3895	-3896	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3896	-3897	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3896	-3897	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3897	1106	S	1101	QPN	ZG	0.00	527.25	0.36	527.25	11003	-3897	1106	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	1106	1107	S	1101	QPN	ZG	0.00	527.25	3.25	527.25	11003	1106	1107	T	506	QPN	ZG	0.00	900.00	3.25	900.00
11007	1121	1122	S	1100	QPN	ZG	0.00	491.15	3.23	491.15	11007	1121	1122	S	1101	QPN	ZG	0.00	527.25	3.23	527.25
11007	1122	1185	S	1100	QPN	ZG	0.00	491.15	3.23	491.15	11007	1122	1185	S	1101	QPN	ZG	0.00	527.25	3.23	527.25
11007	1185	1186	S	1101	QPN	ZG	0.00	527.25	0.67	527.25	11007	1187	1188	S	1101	QPN	ZG	0.00	527.25	0.65	527.25
11007	1188	1123	S	1101	QPN	ZG	0.00	527.25	3.25	527.25	11007	1188	1123	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
11007	1123	1124	S	1101	QPN	ZG	0.00	527.25	3.25	527.25	11007	1123	1124	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
11007	1124	1125	S	1101	QPN	ZG	0.00	527.25	3.25	527.25	11007	1124	1125	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
11009	1135	1136	S	1100	QPN	ZG	0.00	491.15	3.23	491.15	11009	1135	1136	T	520	QPN	ZG	0.00	900.00	3.23	900.00
11009	1136	1137	S	1100	QPN	ZG	0.00	491.15	3.23	491.15	11009	1136	1137	T	521	QPN	ZG	0.00	900.00	3.23	900.00
11009	1137	1138	T	922	QPN	ZG	0.00	450.00	2.90	450.00	11009	1138	1139	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
11009	1138	1139	T	523	QPN	ZG	0.00	900.00	3.25	900.00	11009	1139	1140	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
11009	1139	1140	T	524	QPN	ZG	0.00	900.00	3.25	900.00	11009	1140	1141	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
11009	1140	1141	T	525	QPN	ZG	0.00	900.00	3.25	900.00	11010	1101	1121	T	539	QPN	ZG	0.00	900.00	5.55	900.00
11010	1121	1135	T	540	QPN	ZG	0.00	900.00	5.17	900.00	11013	-3507	1157	T	541	QPN	ZG	0.00	510.00	0.40	510.00

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11013	-3594	-3507	T	541	QPN	ZG	0.00	510.00	0.40	510.00	11013	1174	-3594	T	541	QPN	ZG	0.00	510.00	0.40	510.00
11013	1174	-3802	T	541	QPN	ZG	0.00	510.00	0.35	510.00	11013	-3802	-1103	T	541	QPN	ZG	0.00	510.00	0.35	510.00
11016	1158	-3508	T	542	QPN	ZG	0.00	510.00	0.40	510.00	11016	-3508	-3595	T	542	QPN	ZG	0.00	510.00	0.40	510.00
11016	-3595	1175	T	542	QPN	ZG	0.00	510.00	0.40	510.00	11016	1175	-3803	T	542	QPN	ZG	0.00	510.00	0.35	510.00
11016	-3803	1104	T	542	QPN	ZG	0.00	510.00	0.35	510.00	13003	1301	-4624	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	1301	-4624	T	601	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4624	-4625	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4624	-4625	T	601	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4625	-4626	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4625	-4626	T	601	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4626	-4627	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4626	-4627	T	601	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4627	-4628	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4627	-4628	T	601	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4628	-4629	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4628	-4629	T	601	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4629	-4630	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4629	-4630	T	601	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4630	-4631	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4630	-4631	T	601	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4631	1302	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4631	1302	T	601	QPN	ZG	0.00	900.00	0.36	900.00	13003	1302	-4632	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	1302	-4632	T	602	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4632	-4633	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4632	-4633	T	602	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4633	-4634	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4633	-4634	T	602	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4634	-4635	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4634	-4635	T	602	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4635	-4636	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4635	-4636	T	602	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4636	-4637	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4636	-4637	T	602	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4637	-4638	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4637	-4638	T	602	QPN	ZG	0.00	900.00	0.36	900.00	13003	-4638	-4639	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4638	-4639	T	602																	

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13007	1388	1323	S	1302	QPN	ZG	0.00	491.15	3.25	491.15	13007	1323	1324	S	1300	QPN	ZG	0.00	527.25	3.25	527.25
13007	1323	1324	S	1302	QPN	ZG	0.00	491.15	3.25	491.15	13007	1324	1325	S	1300	QPN	ZG	0.00	527.25	3.25	527.25
13007	1324	1325	S	1302	QPN	ZG	0.00	491.15	3.25	491.15	13009	1335	1336	S	1301	QPN	ZG	0.00	491.15	3.23	491.15
13009	1335	1336	T	620	QPN	ZG	0.00	900.00	3.23	900.00	13009	1336	1337	S	1301	QPN	ZG	0.00	491.15	3.23	491.15
13009	1336	1337	T	621	QPN	ZG	0.00	900.00	3.23	900.00	13009	1337	1338	T	1122	QPN	ZG	0.00	450.00	2.90	450.00
13009	1338	1339	S	1302	QPN	ZG	0.00	491.15	3.25	491.15	13009	1338	1339	T	623	QPN	ZG	0.00	900.00	3.25	900.00
13009	1339	1340	S	1302	QPN	ZG	0.00	491.15	3.25	491.15	13009	1339	1340	T	624	QPN	ZG	0.00	900.00	3.25	900.00
13009	1340	1341	S	1302	QPN	ZG	0.00	491.15	3.25	491.15	13009	1340	1341	T	625	QPN	ZG	0.00	900.00	3.25	900.00
13010	1301	1321	T	639	QPN	ZG	0.00	900.00	5.55	900.00	13010	1321	1335	T	640	QPN	ZG	0.00	900.00	5.17	900.00
13013	-4272	1357	T	641	QPN	ZG	0.00	510.00	0.40	510.00	13013	-4359	-4272	T	641	QPN	ZG	0.00	510.00	0.40	510.00
13013	1374	-4359	T	641	QPN	ZG	0.00	510.00	0.40	510.00	13013	1374	-4567	T	641	QPN	ZG	0.00	510.00	0.35	510.00
13013	-4567	1303	T	641	QPN	ZG	0.00	510.00	0.35	510.00	13016	1358	-4273	T	642	QPN	ZG	0.00	510.00	0.40	510.00
13016	-4273	-4360	T	642	QPN	ZG	0.00	510.00	0.40	510.00	13016	-4360	1375	T	642	QPN	ZG	0.00	510.00	0.40	510.00
13016	1375	-4568	T	642	QPN	ZG	0.00	510.00	0.35	510.00	13016	-4568	1304	T	642	QPN	ZG	0.00	510.00	0.35	510.00
15003	1501	-5389	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	1501	-5389	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5389	-5390	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5389	-5390	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5390	-5391	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5390	-5391	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5391	-5392	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5391	-5392	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5392	-5393	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5392	-5393	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5393	-5394	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5393	-5394	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5394	-5395	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5394	-5395	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5395	-5396	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5395	-5396	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5396	1502	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5396	1502	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	1502	-5397	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	1502	-5397	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5397	-5398	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5397	-5398	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5398	-5399	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5398	-5399	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5399	-5400	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5399	-5400	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5400	-5401	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5400	-5401	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5401	-5402	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5401	-5402	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5402	-5403	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5402	-5403	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5403	-5404	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5403	-5404	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5404	1503	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5404	1503	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	1503	-5405	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	1503	-5405	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5405	-5406	S	1500	QPN	ZG	0.00	527.25	0.31	527.25	15003	-5405	-5406	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5406	-5406	S	1500	QPN	ZG	0.31	358.15	0.36	358.15	15003	-5406	-5407	S	1500	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5406	-5407	T	703	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5407	-5408	S	1500	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5407	-5408	T	703	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5408	-5409	S	1500	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5408	-5409	T	703	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5409	-5410	S	1500	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5409	-5410	T	703	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5410	-5411	S	1500	QPN	ZG	0.00	358.15	0.07	358.15
15003	-5410	-5411	T	703	QPN	ZG	0.00	900.00	0.36	900.00	15003	-5410	-5411	S	1500	QPN	ZG	0.07	527.25	0.36	527.25
15003	-5411	1504	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5411	1504	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	1504	-5412	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	1504	-5412	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5412	-5413	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5412	-5413	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5413	-5414	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5413	-5414	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5414	-5415	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5414	-5415	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5415	-5416	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5415	-5416	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5416	-5417	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5416	-5417	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5417	-5418	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5417	-5418	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5418	-5419	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5418	-5419	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5419	1505	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5419	1505	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	1505	-5420	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	1505	-5420	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5420	-5421	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5420	-5421	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5421	-5422	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5421	-5422	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5422	-5423	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5422	-5423	T	705	QPN	ZG	0.00	900.00	0.36	900.00

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15003	-5423	-5424	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5423	-5424	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5424	-5425	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5424	-5425	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5425	-5426	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5425	-5426	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5426	-5427	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5426	-5427	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5427	1506	S	1500	QPN	ZG	0.00	527.25	0.36	527.25	15003	-5427	1506	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	1506	1507	S	1500	QPN	ZG	0.00	527.25	3.25	527.25	15003	1506	1507	T	706	QPN	ZG	0.00	900.00	3.25	900.00
15007	1521	1522	S	1501	QPN	ZG	0.00	491.15	3.23	491.15	15007	1521	1522	S	1500	QPN	ZG	0.00	527.25	3.23	527.25
15007	1522	1585	S	1501	QPN	ZG	0.00	491.15	3.23	491.15	15007	1522	1585	S	1500	QPN	ZG	0.00	527.25	3.23	527.25
15007	1585	1586	S	1500	QPN	ZG	0.00	527.25	0.67	527.25	15007	1587	1588	S	1500	QPN	ZG	0.00	527.25	0.65	527.25
15007	1588	1523	S	1502	QPN	ZG	0.00	491.15	3.25	491.15	15007	1588	1523	S	1500	QPN	ZG	0.00	527.25	3.25	527.25
15007	1523	1524	S	1502	QPN	ZG	0.00	491.15	3.25	491.15	15007	1523	1524	S	1500	QPN	ZG	0.00	527.25	3.25	527.25
15007	1524	1525	S	1502	QPN	ZG	0.00	491.15	3.25	491.15	15007	1524	1525	S	1500	QPN	ZG	0.00	527.25	3.25	527.25
15009	1535	1536	S	1501	QPN	ZG	0.00	491.15	3.23	491.15	15009	1535	1536	T	720	QPN	ZG	0.00	900.00	3.23	900.00
15009	1536	1537	S	1501	QPN	ZG	0.00	491.15	3.23	491.15	15009	1536	1537	T	721	QPN	ZG	0.00	900.00	3.23	900.00
15009	1537	1538	T	1322	QPN	ZG	0.00	450.00	2.90	450.00	15009	1538	1539	S	1502	QPN	ZG	0.00	491.15	3.25	491.15
15009	1538	1539	T	723	QPN	ZG	0.00	900.00	3.25	900.00	15009	1539	1540	S	1502	QPN	ZG	0.00	491.15	3.25	491.15
15009	1539	1540	T	724	QPN	ZG	0.00	900.00	3.25	900.00	15009	1540	1541	S	1502	QPN	ZG	0.00	491.15	3.25	491.15
15009	1540	1541	T	725	QPN	ZG	0.00	900.00	3.25	900.00	15010	1501	1521	T	739	QPN	ZG	0.00	900.00	5.55	900.00
15010	1521	1535	T	740	QPN	ZG	0.00	900.00	5.17	900.00	15013	-5037	1557	T	741	QPN	ZG	0.00	510.00	0.40	510.00
15013	-5124	-5037	T	741	QPN	ZG	0.00	510.00	0.40	510.00	15013	1574	-5124	T	741	QPN	ZG	0.00	510.00	0.40	510.00
15013	1574	-5332	T	741	QPN	ZG	0.00	510.00	0.35	510.00	15013	-5332	1503	T	741	QPN	ZG	0.00	510.00	0.35	510.00
15016	1558	-5038	T	742	QPN	ZG	0.00	510.00	0.40	510.00	15016	-5038	-5125	T	742	QPN	ZG	0.00	510.00	0.40	510.00
15016	-5125	1575	T	742	QPN	ZG	0.00	510.00	0.40	510.00	15016	1575	-5333	T	742	QPN	ZG	0.00	510.00	0.35	510.00
15016	-5333	1504	T	742	QPN	ZG	0.00	510.00	0.35	510.00	17003	1701	-6155	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	1701	-6155	T	801	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6155	-6156	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6155	-6156	T	801	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6156	-6157	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6156	-6157	T	801	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6157	-6158	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6157	-6158	T	801	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6158	-6159	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6158	-6159	T	801	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6159	-6160	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6159	-6160	T	801	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6160	-6161	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6160	-6161	T	801	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6161	-6162	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6161	-6162	T	801	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6162	1702	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6162	1702	T	801	QPN	ZG	0.00	900.00	0.36	900.00	17003	1702	-6163	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	1702	-6163	T	802	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6163	-6164	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6163	-6164	T	802	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6164	-6165	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6164	-6165	T	802	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6165	-6166	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6165	-6166	T	802	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6166	-6167	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6166	-6167	T	802	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6167	-6168	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6167	-6168	T	802	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6168	-6169	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6168	-6169	T	802	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6169	-6170	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6169	-6170	T	802	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6170	1703	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6170	1703	T	802	QPN	ZG	0.00	900.00	0.36	900.00	17003	1703	-6171	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	1703	-6171	T	803	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6171	-6172	S	1700	QPN	ZG	0.00	527.25	0.31	527.25
17003	-6171	-6172	T	803	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6171	-6172	S	1700	QPN	ZG	0.31	358.15	0.36	358.15
17003	-6172	-6173	S	1700	QPN	ZG	0.00	358.15	0.36	358.15	17003	-6172	-6173	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6173	-6174	S	1700	QPN	ZG	0.00	358.15	0.36	358.15	17003	-6173	-6174	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6174	-6175	S	1700	QPN	ZG	0.00	358.15	0.36	358.15	17003	-6174	-6175	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6175	-6176	S	1700	QPN	ZG	0.00	358.15	0.36	358.15	17003	-6175	-6176	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6176	-6177	S	1700	QPN	ZG	0.00	358.15	0.07	358.15	17003	-6176	-6177	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6176	-6177	S	1700	QPN	ZG	0.07	527.25	0.36	527.25	17003	-6177	1704	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6177	1704	T	803	QPN	ZG	0.00	900.00	0.36	900.00	17003	1704	-6178	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	1704	-6178	T	804	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6178	-6179	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6178	-6179	T	804	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6179	-6180	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6179	-6180	T	804	QPN	ZG	0.00	900.00	0.36	900.00	17003	-6180	-6181	S	1700	QPN	ZG	0.00	527.25	0.36	527.25

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17003	-6180	-6181	T	804	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6181	-6182	T	804	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6182	-6183	T	804	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6183	-6184	T	804	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6184	-6185	T	804	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6185	1705	T	804	QPN	ZG	0.00	900.00	0.36	900.00
17003	1705	-6186	T	805	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6186	-6187	T	805	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6187	-6188	T	805	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6188	-6189	T	805	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6189	-6190	T	805	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6190	-6191	T	805	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6191	-6192	T	805	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6192	-6193	T	805	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6193	1706	T	805	QPN	ZG	0.00	900.00	0.36	900.00
17003	1706	1707	T	806	QPN	ZG	0.00	900.00	3.25	900.00
17007	1721	1722	S	1701	QPN	ZG	0.00	491.15	3.23	491.15
17007	1722	1785	S	1701	QPN	ZG	0.00	491.15	3.23	491.15
17007	1787	1788	S	1700	QPN	ZG	0.00	527.25	0.65	527.25
17007	1788	1723	S	1702	QPN	ZG	0.00	491.15	3.25	491.15
17007	1723	1724	S	1702	QPN	ZG	0.00	491.15	3.25	491.15
17007	1724	1725	S	1702	QPN	ZG	0.00	491.15	3.25	491.15
17009	1735	1736	T	820	QPN	ZG	0.00	900.00	3.23	900.00
17009	1736	1737	T	821	QPN	ZG	0.00	900.00	3.23	900.00
17009	1738	1739	S	1702	QPN	ZG	0.00	491.15	3.25	491.15
17009	1739	1740	S	1702	QPN	ZG	0.00	491.15	3.25	491.15
17009	1740	1741	S	1702	QPN	ZG	0.00	491.15	3.25	491.15
17010	1701	1721	T	839	QPN	ZG	0.00	900.00	5.55	900.00
17013	-5803	1757	T	841	QPN	ZG	0.00	510.00	0.40	510.00
17013	1774	-5890	T	841	QPN	ZG	0.00	510.00	0.40	510.00
17013	-6098	1703	T	841	QPN	ZG	0.00	510.00	0.35	510.00
17016	-5804	-5891	T	842	QPN	ZG	0.00	510.00	0.40	510.00
17016	1775	-6099	T	842	QPN	ZG	0.00	510.00	0.35	510.00
18009	-6390	1838	T	1622	QPN	ZG	0.00	450.00	1.45	450.00
19003	-6920	-6921	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6922	-6923	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6924	-6925	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6926	-6927	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1902	-6928	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6929	-6930	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6931	-6932	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6933	-6934	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6935	1903	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6936	-6937	S	1902	QPN	ZG	0.00	1110.00	0.31	1110.00
19003	-6937	-6938	S	1902	QPN	ZG	0.00	754.00	0.36	754.00
19003	-6939	-6940	S	1902	QPN	ZG	0.00	754.00	0.36	754.00
19003	-6941	-6942	S	1902	QPN	ZG	0.00	754.00	0.07	754.00
19003	-6942	1904	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6943	-6944	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6945	-6946	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6947	-6948	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6949	-6950	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1905	-6951	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6952	-6953	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00

17003	-6181	-6182	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6182	-6183	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6183	-6184	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6184	-6185	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6185	1705	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	1705	-6186	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6186	-6187	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6187	-6188	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6188	-6189	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6189	-6190	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6190	-6191	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6191	-6192	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6192	-6193	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6193	1706	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	1706	1707	S	1700	QPN	ZG	0.00	527.25	3.25	527.25
17007	1721	1722	S	1700	QPN	ZG	0.00	527.25	3.23	527.25
17007	1722	1785	S	1700	QPN	ZG	0.00	527.25	3.23	527.25
17007	1785	1786	S	1700	QPN	ZG	0.00	527.25	0.67	527.25
17007	1788	1723	S	1700	QPN	ZG	0.00	527.25	3.25	527.25
17007	1723	1724	S	1700	QPN	ZG	0.00	527.25	3.25	527.25
17007	1724	1725	S	1700	QPN	ZG	0.00	527.25	3.25	527.25
17009	1735	1736	S	1701	QPN	ZG	0.00	491.15	3.23	491.15
17009	1736	1737	S	1701	QPN	ZG	0.00	491.15	3.23	491.15
17009	1737	1738	T	1522	QPN	ZG	0.00	450.00	2.90	450.00
17009	1738	1739	T	823	QPN	ZG	0.00	900.00	3.25	900.00
17009	1739	1740	T	824	QPN	ZG	0.00	900.00	3.25	900.00
17009	1740	1741	T	825	QPN	ZG	0.00	900.00	3.25	900.00
17010	1721	1735	T	840	QPN	ZG	0.00	900.00	5.17	900.00
17013	-5890	-5803	T	841	QPN	ZG	0.00	510.00	0.40	510.00
17013	1774	-6098	T	841	QPN	ZG	0.00	510.00	0.35	510.00
17016	1758	-5804	T	842	QPN	ZG	0.00	510.00	0.40	510.00
17016	-5891	1775	T	842	QPN	ZG	0.00	510.00	0.40	510.00
17016	-6099	1704	T	842	QPN	ZG	0.00	510.00	0.35	510.00
19003	1901	-6920	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6921	-6922	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6923	-6924	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6925	-6926	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6927	1902	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6928	-6929	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6930	-6931	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6932	-6933	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6934	-6935	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1903	-6936	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6936	-6937	S	1902	QPN	ZG	0.31	754.00	0.36	754.00
19003	-6938	-6939	S	1902	QPN	ZG	0.00	754.00	0.36	754.00
19003	-6940	-6941	S	1902	QPN	ZG	0.00	754.00	0.36	754.00
19003	-6941	-6942	S	1902	QPN	ZG	0.07	1110.00	0.36	1110.00
19003	1904	-6943	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6944	-6945	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6946	-6947	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6948	-6949	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6950	1905	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6951	-6952	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6953	-6954	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00

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19003	-6954	-6955	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6956	-6957	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6958	1906	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19007	1921	1922	S	1901	QPN	ZG	0.00	1034.00	3.23	1034.00
19007	1922	1985	S	1901	QPN	ZG	0.00	1034.00	3.23	1034.00
19007	1985	1986	S	1902	QPN	ZG	0.00	1110.00	0.67	1110.00
19007	1988	1923	S	1900	QPN	ZG	0.00	1034.00	3.25	1034.00
19007	1923	1924	S	1900	QPN	ZG	0.00	1034.00	3.25	1034.00
19007	1924	1925	S	1900	QPN	ZG	0.00	1034.00	3.25	1034.00
19009	1935	1936	S	1901	QPN	ZG	0.00	1034.00	3.23	1034.00
19009	1938	1939	S	1900	QPN	ZG	0.00	1034.00	3.25	1034.00
19009	1940	1941	S	1900	QPN	ZG	0.00	1034.00	3.25	1034.00
22010	21	35	S	2217	QPN	ZG	0.00	323.00	5.17	323.00
22011	2	22	S	2216	QPN	ZG	0.00	323.00	5.55	323.00
22011	22	36	S	2217	QPN	ZG	0.00	323.00	5.17	323.00
22012	3	57	S	2214	QPN	ZG	0.00	323.00	2.66	323.00
22012	57	-98	S	2214	QPN	ZG	0.00	323.00	1.11	323.00
22012	-98	-116	S	2214	QPN	ZG	0.00	323.00	0.59	323.00
22012	-116	-133	S	2214	QPN	ZG	0.00	323.00	0.59	323.00
22012	-133	-150	S	2214	QPN	ZG	0.00	323.00	0.59	323.00
22012	-150	-171	S	2215	QPN	ZG	0.00	323.00	1.11	323.00
22012	-171	37	S	2215	QPN	ZG	0.00	323.00	4.06	323.00
22017	4	58	S	2218	QPN	ZG	0.00	325.00	2.66	325.00
22017	58	-102	S	2218	QPN	ZG	0.00	325.00	1.11	325.00
22017	-102	-120	S	2218	QPN	ZG	0.00	325.00	0.59	325.00
22017	-120	-137	S	2218	QPN	ZG	0.00	325.00	0.59	325.00
22017	-137	-154	S	2218	QPN	ZG	0.00	325.00	0.59	325.00
22017	-154	-175	S	2219	QPN	ZG	0.00	325.00	1.11	325.00
22017	-175	38	S	2219	QPN	ZG	0.00	325.00	4.06	325.00
22018	5	23	S	2218	QPN	ZG	0.00	325.00	5.55	325.00
22018	23	39	S	2219	QPN	ZG	0.00	325.00	5.17	325.00
22019	6	24	S	2213	QPN	ZG	0.00	325.00	5.55	325.00
22019	24	40	S	2212	QPN	ZG	0.00	325.00	5.17	325.00
22020	25	41	S	2211	QPN	ZG	0.00	325.00	5.17	325.00

19003	-6955	-6956	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	-6957	-6958	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00
19003	1906	1907	S	1902	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1921	1922	S	1902	QPN	ZG	0.00	1110.00	3.23	1110.00
19007	1922	1985	S	1902	QPN	ZG	0.00	1110.00	3.23	1110.00
19007	1987	1988	S	1902	QPN	ZG	0.00	1110.00	0.65	1110.00
19007	1988	1923	S	1902	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1923	1924	S	1902	QPN	ZG	0.00	1110.00	3.25	1110.00
19007	1924	1925	S	1902	QPN	ZG	0.00	1110.00	3.25	1110.00
19009	1936	1937	S	1901	QPN	ZG	0.00	1034.00	3.23	1034.00
19009	1939	1940	S	1900	QPN	ZG	0.00	1034.00	3.25	1034.00
22010	1	21	S	2216	QPN	ZG	0.00	323.00	5.55	323.00
22011	2	22	S	2214	QPN	ZG	0.00	323.00	5.55	323.00
22011	22	36	S	2215	QPN	ZG	0.00	323.00	5.17	323.00
22012	3	57	S	2201	QPN	ZG	0.00	290.00	2.66	290.00
22012	57	-98	S	2201	QPN	ZG	0.00	290.00	1.11	290.00
22012	-98	-116	S	2201	QPN	ZG	0.00	290.00	0.59	290.00
22012	-116	-133	S	2201	QPN	ZG	0.00	290.00	0.59	290.00
22012	-133	-150	S	2201	QPN	ZG	0.00	290.00	0.59	290.00
22012	-150	-171	S	2200	QPN	ZG	0.00	290.00	1.11	290.00
22012	-171	37	S	2200	QPN	ZG	0.00	290.00	4.06	290.00
22017	4	58	S	2201	QPN	ZG	0.00	290.00	2.66	290.00
22017	58	-102	S	2201	QPN	ZG	0.00	290.00	1.11	290.00
22017	-102	-120	S	2201	QPN	ZG	0.00	290.00	0.59	290.00
22017	-120	-137	S	2201	QPN	ZG	0.00	290.00	0.59	290.00
22017	-137	-154	S	2201	QPN	ZG	0.00	290.00	0.59	290.00
22017	-154	-175	S	2200	QPN	ZG	0.00	290.00	1.11	290.00
22017	-175	38	S	2200	QPN	ZG	0.00	290.00	4.06	290.00
22018	5	23	S	2213	QPN	ZG	0.00	325.00	5.55	325.00
22018	23	39	S	2212	QPN	ZG	0.00	325.00	5.17	325.00
22019	6	24	S	2210	QPN	ZG	0.00	325.00	5.55	325.00
22019	24	40	S	2211	QPN	ZG	0.00	325.00	5.17	325.00
22020	7	25	S	2210	QPN	ZG	0.00	325.00	5.55	325.00

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	-1679	-1680	S	508	QA	ZG	0.00	377.00	0.79	377.00
0	-2444	-2445	S	708	QA	ZG	0.00	377.00	0.79	377.00
0	-3209	-3210	S	908	QA	ZG	0.00	377.00	0.79	377.00
0	-3974	-3975	S	1101	QA	ZG	0.00	377.00	0.79	377.00
0	-4739	-4740	S	1300	QA	ZG	0.00	377.00	0.79	377.00
0	-5504	-5505	S	1500	QA	ZG	0.00	377.00	0.79	377.00
0	-6270	-6271	S	1700	QA	ZG	0.00	377.00	0.79	377.00
0	-7035	-7036	S	1902	QA	ZG	0.00	377.00	0.79	377.00
3003	301	-790	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-791	-792	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-793	-794	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-795	-796	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-797	302	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-798	-799	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-800	-801	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-802	-803	S	308	QA	ZG	0.00	555.00	0.36	555.00

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1680	-1681	S	508	QA	ZG	0.00	377.00	0.79	377.00
0	-2445	-2446	S	708	QA	ZG	0.00	377.00	0.79	377.00
0	-3210	-3211	S	908	QA	ZG	0.00	377.00	0.79	377.00
0	-3975	-3976	S	1101	QA	ZG	0.00	377.00	0.79	377.00
0	-4740	-4741	S	1300	QA	ZG	0.00	377.00	0.79	377.00
0	-5505	-5506	S	1500	QA	ZG	0.00	377.00	0.79	377.00
0	-6271	-6272	S	1700	QA	ZG	0.00	377.00	0.79	377.00
0	-7036	-7037	S	1902	QA	ZG	0.00	377.00	0.79	377.00
3003	-790	-791	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-792	-793	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-794	-795	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-796	-797	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	302	-798	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-799	-800	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-801	-802	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-803	-804	S	308	QA	ZG	0.00	555.00	0.36	555.00

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3003	-804	-805	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-805	303	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	303	-806	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-806	-807	S	308	QA	ZG	0.00	555.00	0.31	555.00
3003	-806	-807	S	308	QA	ZG	0.31	377.00	0.36	377.00	3003	-807	-808	S	308	QA	ZG	0.00	377.00	0.36	377.00
3003	-808	-809	S	308	QA	ZG	0.00	377.00	0.36	377.00	3003	-809	-810	S	308	QA	ZG	0.00	377.00	0.36	377.00
3003	-810	-811	S	308	QA	ZG	0.00	377.00	0.36	377.00	3003	-811	-812	S	308	QA	ZG	0.00	377.00	0.07	377.00
3003	-811	-812	S	308	QA	ZG	0.07	555.00	0.36	555.00	3003	-812	304	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	304	-813	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-813	-814	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-814	-815	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-815	-816	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-816	-817	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-817	-818	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-818	-819	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-819	-820	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-820	305	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	305	-821	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-821	-822	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-822	-823	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-823	-824	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-824	-825	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-825	-826	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-826	-827	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	-827	-828	S	308	QA	ZG	0.00	555.00	0.36	555.00	3003	-828	306	S	308	QA	ZG	0.00	555.00	0.36	555.00
3003	306	307	S	308	QA	ZG	0.00	555.00	3.25	555.00	3006	-905	-906	S	308	QA	ZG	0.00	377.00	0.79	377.00
3006	-906	-907	S	308	QA	ZG	0.00	377.00	0.79	377.00	3007	321	322	S	300	QA	ZG	0.00	517.00	3.23	517.00
3007	321	322	S	308	QA	ZG	2.87	555.00	3.23	555.00	3007	321	322	S	308	QA	ZG	2.15	555.00	2.87	555.00
3007	321	322	S	308	QA	ZG	1.79	555.00	2.15	555.00	3007	321	322	S	308	QA	ZG	1.44	555.00	1.79	555.00
3007	321	322	S	308	QA	ZG	0.72	555.00	1.44	555.00	3007	321	322	S	308	QA	ZG	0.36	555.00	0.72	555.00
3007	321	322	S	308	QA	ZG	0.00	555.00	0.36	555.00	3007	322	385	S	300	QA	ZG	0.00	517.00	3.23	517.00
3007	322	385	S	308	QA	ZG	0.36	555.00	3.23	555.00	3007	322	385	S	308	QA	ZG	0.00	555.00	0.36	555.00
3007	385	386	S	308	QA	ZG	0.00	555.00	0.67	555.00	3007	387	388	S	308	QA	ZG	0.00	555.00	0.65	555.00
3007	388	323	S	301	QA	ZG	0.00	517.00	3.25	517.00	3007	388	323	S	308	QA	ZG	0.00	555.00	3.25	555.00
3007	323	324	S	301	QA	ZG	0.00	517.00	3.25	517.00	3007	323	324	S	308	QA	ZG	0.00	555.00	3.25	555.00
3007	324	325	S	301	QA	ZG	0.00	517.00	3.25	517.00	3007	324	325	S	308	QA	ZG	0.00	555.00	3.25	555.00
3009	335	336	S	300	QA	ZG	0.00	517.00	3.23	517.00	3009	336	337	S	300	QA	ZG	0.00	517.00	3.23	517.00
3009	338	339	S	301	QA	ZG	0.00	517.00	3.25	517.00	3009	339	340	S	301	QA	ZG	0.00	517.00	3.25	517.00
3009	340	341	S	301	QA	ZG	0.00	517.00	3.25	517.00	5003	501	-1564	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1564	-1565	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1565	-1566	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1566	-1567	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1567	-1568	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1568	-1569	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1569	-1570	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1570	-1571	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1571	502	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	502	-1572	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1572	-1573	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1573	-1574	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1574	-1575	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1575	-1576	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1576	-1577	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1577	-1578	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1578	-1579	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1579	503	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	503	-1580	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1580	-1581	S	508	QA	ZG	0.00	555.00	0.31	555.00	5003	-1580	-1581	S	508	QA	ZG	0.31	377.00	0.36	377.00
5003	-1581	-1582	S	508	QA	ZG	0.00	377.00	0.36	377.00	5003	-1582	-1583	S	508	QA	ZG	0.00	377.00	0.36	377.00
5003	-1583	-1584	S	508	QA	ZG	0.00	377.00	0.36	377.00	5003	-1584	-1585	S	508	QA	ZG	0.00	377.00	0.36	377.00
5003	-1585	-1586	S	508	QA	ZG	0.00	377.00	0.07	377.00	5003	-1585	-1586	S	508	QA	ZG	0.07	555.00	0.36	555.00
5003	-1586	504	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	504	-1587	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1587	-1588	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1588	-1589	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1589	-1590	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1590	-1591	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1591	-1592	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1592	-1593	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1593	-1594	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1594	505	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	505	-1595	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1595	-1596	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1596	-1597	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1597	-1598	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1598	-1599	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1599	-1600	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1600	-1601	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	-1601	-1602	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1602	506	S	508	QA	ZG	0.00	555.00	0.36	555.00	5003	506	507	S	508	QA	ZG	0.00	555.00	3.25	555.00
5007	521	522	S	500	QA	ZG	0.00	517.00	3.23	517.00	5007	521	522	S	508	QA	ZG	2.87	555.00	3.23	555.00
5007	521	522	S	508	QA	ZG	2.15	555.00	2.87	555.00	5007	521	522	S	508	QA	ZG	1.79	555.00	2.15	555.00

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5007	521	522	S	508	QA	ZG	1.44	555.00	1.79	555.00	5007	521	522	S	508	QA	ZG	0.72	555.00	1.44	555.00
5007	521	522	S	508	QA	ZG	0.36	555.00	0.72	555.00	5007	521	522	S	508	QA	ZG	0.00	555.00	0.36	555.00
5007	522	585	S	500	QA	ZG	0.00	517.00	3.23	517.00	5007	522	585	S	508	QA	ZG	0.36	555.00	3.23	555.00
5007	522	585	S	508	QA	ZG	0.00	555.00	0.36	555.00	5007	585	586	S	508	QA	ZG	0.00	555.00	0.67	555.00
5007	587	588	S	508	QA	ZG	0.00	555.00	0.65	555.00	5007	588	523	S	501	QA	ZG	0.00	517.00	3.25	517.00
5007	588	523	S	508	QA	ZG	0.00	555.00	3.25	555.00	5007	523	524	S	501	QA	ZG	0.00	517.00	3.25	517.00
5007	523	524	S	508	QA	ZG	0.00	555.00	3.25	555.00	5007	524	525	S	501	QA	ZG	0.00	517.00	3.25	517.00
5007	524	525	S	508	QA	ZG	0.00	555.00	3.25	555.00	5009	535	536	S	500	QA	ZG	0.00	517.00	3.23	517.00
5009	536	537	S	500	QA	ZG	0.00	517.00	3.23	517.00	5009	538	539	S	501	QA	ZG	0.00	517.00	3.25	517.00
5009	539	540	S	501	QA	ZG	0.00	517.00	3.25	517.00	5009	540	541	S	501	QA	ZG	0.00	517.00	3.25	517.00
7003	701	-2329	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2329	-2330	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2330	-2331	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2331	-2332	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2332	-2333	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2333	-2334	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2334	-2335	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2335	-2336	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2336	702	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	702	-2337	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2337	-2338	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2338	-2339	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2339	-2340	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2340	-2341	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2341	-2342	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2342	-2343	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2343	-2344	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2344	703	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	703	-2345	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2345	-2346	S	708	QA	ZG	0.00	555.00	0.31	555.00
7003	-2345	-2346	S	708	QA	ZG	0.31	377.00	0.36	377.00	7003	-2346	-2347	S	708	QA	ZG	0.00	377.00	0.36	377.00
7003	-2347	-2348	S	708	QA	ZG	0.00	377.00	0.36	377.00	7003	-2348	-2349	S	708	QA	ZG	0.00	377.00	0.36	377.00
7003	-2349	-2350	S	708	QA	ZG	0.00	377.00	0.36	377.00	7003	-2350	-2351	S	708	QA	ZG	0.00	377.00	0.07	377.00
7003	-2350	-2351	S	708	QA	ZG	0.07	555.00	0.36	555.00	7003	-2351	704	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	704	-2352	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2352	-2353	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2353	-2354	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2354	-2355	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2355	-2356	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2356	-2357	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2357	-2358	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2358	-2359	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2359	705	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	705	-2360	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2360	-2361	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2361	-2362	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2362	-2363	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2363	-2364	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2364	-2365	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2365	-2366	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	-2366	-2367	S	708	QA	ZG	0.00	555.00	0.36	555.00	7003	-2367	706	S	708	QA	ZG	0.00	555.00	0.36	555.00
7003	706	707	S	708	QA	ZG	0.00	555.00	3.25	555.00	7007	721	722	S	700	QA	ZG	0.00	517.00	3.23	517.00
7007	721	722	S	708	QA	ZG	2.87	555.00	3.23	555.00	7007	721	722	S	708	QA	ZG	2.15	555.00	2.87	555.00
7007	721	722	S	708	QA	ZG	1.79	555.00	2.15	555.00	7007	721	722	S	708	QA	ZG	1.44	555.00	1.79	555.00
7007	721	722	S	708	QA	ZG	0.72	555.00	1.44	555.00	7007	721	722	S	708	QA	ZG	0.36	555.00	0.72	555.00
7007	721	722	S	708	QA	ZG	0.00	555.00	0.36	555.00	7007	722	785	S	700	QA	ZG	0.00	517.00	3.23	517.00
7007	722	785	S	708	QA	ZG	0.36	555.00	3.23	555.00	7007	722	785	S	708	QA	ZG	0.00	555.00	0.36	555.00
7007	785	786	S	708	QA	ZG	0.00	555.00	0.67	555.00	7007	787	788	S	708	QA	ZG	0.00	555.00	0.65	555.00
7007	788	723	S	701	QA	ZG	0.00	517.00	3.25	517.00	7007	788	723	S	708	QA	ZG	0.00	555.00	3.25	555.00
7007	723	724	S	701	QA	ZG	0.00	517.00	3.25	517.00	7007	723	724	S	708	QA	ZG	0.00	555.00	3.25	555.00
7007	724	725	S	701	QA	ZG	0.00	517.00	3.25	517.00	7007	724	725	S	708	QA	ZG	0.00	555.00	3.25	555.00
7009	735	736	S	700	QA	ZG	0.00	517.00	3.23	517.00	7009	736	737	S	700	QA	ZG	0.00	517.00	3.23	517.00
7009	738	739	S	701	QA	ZG	0.00	517.00	3.25	517.00	7009	739	740	S	701	QA	ZG	0.00	517.00	3.25	517.00
7009	740	741	S	701	QA	ZG	0.00	517.00	3.25	517.00	9003	901	-3094	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3094	-3095	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3095	-3096	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3096	-3097	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3097	-3098	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3098	-3099	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3099	-3100	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3100	-3101	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3101	902	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	902	-3102	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3102	-3103	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3103	-3104	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3104	-3105	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3105	-3106	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3106	-3107	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3107	-3108	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3108	-3109	S	908	QA	ZG	0.00	555.00	0.36	555.00

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9003	-3109	903	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	903	-3110	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3110	-3111	S	908	QA	ZG	0.00	555.00	0.31	555.00	9003	-3110	-3111	S	908	QA	ZG	0.31	377.00	0.36	377.00
9003	-3111	-3112	S	908	QA	ZG	0.00	377.00	0.36	377.00	9003	-3112	-3113	S	908	QA	ZG	0.00	377.00	0.36	377.00
9003	-3113	-3114	S	908	QA	ZG	0.00	377.00	0.36	377.00	9003	-3114	-3115	S	908	QA	ZG	0.00	377.00	0.36	377.00
9003	-3115	-3116	S	908	QA	ZG	0.00	377.00	0.07	377.00	9003	-3115	-3116	S	908	QA	ZG	0.07	555.00	0.36	555.00
9003	-3116	904	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	904	-3117	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3117	-3118	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3118	-3119	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3119	-3120	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3120	-3121	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3121	-3122	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3122	-3123	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3123	-3124	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3124	905	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	905	-3125	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3125	-3126	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3126	-3127	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3127	-3128	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3128	-3129	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3129	-3130	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3130	-3131	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	-3131	-3132	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3132	906	S	908	QA	ZG	0.00	555.00	0.36	555.00	9003	906	907	S	908	QA	ZG	0.00	555.00	3.25	555.00
9007	921	922	S	900	QA	ZG	0.00	517.00	3.23	517.00	9007	921	922	S	908	QA	ZG	2.87	555.00	3.23	555.00
9007	921	922	S	908	QA	ZG	2.15	555.00	2.87	555.00	9007	921	922	S	908	QA	ZG	1.79	555.00	2.15	555.00
9007	921	922	S	908	QA	ZG	1.44	555.00	1.79	555.00	9007	921	922	S	908	QA	ZG	0.72	555.00	1.44	555.00
9007	921	922	S	908	QA	ZG	0.36	555.00	0.72	555.00	9007	921	922	S	908	QA	ZG	0.00	555.00	0.36	555.00
9007	922	985	S	900	QA	ZG	0.00	517.00	3.23	517.00	9007	922	985	S	908	QA	ZG	0.36	555.00	3.23	555.00
9007	922	985	S	908	QA	ZG	0.00	555.00	0.36	555.00	9007	985	986	S	908	QA	ZG	0.00	555.00	0.67	555.00
9007	987	988	S	908	QA	ZG	0.00	555.00	0.65	555.00	9007	988	923	S	901	QA	ZG	0.00	517.00	3.25	517.00
9007	988	923	S	908	QA	ZG	0.00	555.00	3.25	555.00	9007	923	924	S	901	QA	ZG	0.00	517.00	3.25	517.00
9007	923	924	S	908	QA	ZG	0.00	555.00	3.25	555.00	9007	924	925	S	901	QA	ZG	0.00	517.00	3.25	517.00
9007	924	925	S	908	QA	ZG	0.00	555.00	3.25	555.00	9009	935	936	S	900	QA	ZG	0.00	517.00	3.23	517.00
9009	936	937	S	900	QA	ZG	0.00	517.00	3.23	517.00	9009	938	939	S	901	QA	ZG	0.00	517.00	3.25	517.00
9009	939	940	S	901	QA	ZG	0.00	517.00	3.25	517.00	9009	940	941	S	901	QA	ZG	0.00	517.00	3.25	517.00
11003	1101	-3859	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3859	-3860	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3860	-3861	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3861	-3862	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3862	-3863	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3863	-3864	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3864	-3865	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3865	-3866	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3866	1102	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	1102	-3867	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3867	-3868	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3868	-3869	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3869	-3870	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3870	-3871	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3871	-3872	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3872	-3873	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3873	-3874	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3874	1103	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	1103	-3875	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3875	-3876	S	1101	QA	ZG	0.00	555.00	0.31	555.00
11003	-3875	-3876	S	1101	QA	ZG	0.31	377.00	0.36	377.00	11003	-3876	-3877	S	1101	QA	ZG	0.00	377.00	0.36	377.00
11003	-3877	-3878	S	1101	QA	ZG	0.00	377.00	0.36	377.00	11003	-3878	-3879	S	1101	QA	ZG	0.00	377.00	0.36	377.00
11003	-3879	-3880	S	1101	QA	ZG	0.00	377.00	0.36	377.00	11003	-3880	-3881	S	1101	QA	ZG	0.00	377.00	0.07	377.00
11003	-3880	-3881	S	1101	QA	ZG	0.07	555.00	0.36	555.00	11003	-3881	1104	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	1104	-3882	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3882	-3883	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3883	-3884	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3884	-3885	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3885	-3886	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3886	-3887	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3887	-3888	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3888	-3889	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3889	1105	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	1105	-3890	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3890	-3891	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3891	-3892	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3892	-3893	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3893	-3894	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3894	-3895	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3895	-3896	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3896	-3897	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11003	-3897	1106	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	1106	1107	S	1101	QA	ZG	0.00	555.00	3.25	555.00	11007	1121	1122	S	1100	QA	ZG	0.00	517.00	3.23	517.00
11007	1121	1122	S	1101	QA	ZG	2.87	555.00	3.23	555.00	11007	1121	1122	S	1101	QA	ZG	2.15	555.00	2.87	555.00
11007	1121	1122	S	1101	QA	ZG	1.79	555.00	2.15	555.00	11007	1121	1122	S	1101	QA	ZG	1.44	555.00	1.79	555.00
11007	1121	1122	S	1101	QA	ZG	0.72	555.00	1.44	555.00	11007	1121	1122	S	1101	QA	ZG	0.36	555.00	0.72	555.00

Relazione di calcolo

11007	1121	1122	S	1101	QA	ZG	0.00	555.00	0.36	555.00	11007	1122	1185	S	1100	QA	ZG	0.00	517.00	3.23	517.00
11007	1122	1185	S	1101	QA	ZG	0.36	555.00	3.23	555.00	11007	1122	1185	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11007	1185	1186	S	1101	QA	ZG	0.00	555.00	0.67	555.00	11007	1187	1188	S	1101	QA	ZG	0.00	555.00	0.65	555.00
11007	1188	1123	S	1101	QA	ZG	0.00	555.00	3.25	555.00	11007	1188	1123	S	1102	QA	ZG	0.00	517.00	3.25	517.00
11007	1123	1124	S	1101	QA	ZG	0.00	555.00	3.25	555.00	11007	1123	1124	S	1102	QA	ZG	0.00	517.00	3.25	517.00
11007	1124	1125	S	1101	QA	ZG	0.00	555.00	3.25	555.00	11007	1124	1125	S	1102	QA	ZG	0.00	517.00	3.25	517.00
11009	1135	1136	S	1100	QA	ZG	0.00	517.00	3.23	517.00	11009	1136	1137	S	1100	QA	ZG	0.00	517.00	3.23	517.00
11009	1138	1139	S	1102	QA	ZG	0.00	517.00	3.25	517.00	11009	1139	1140	S	1102	QA	ZG	0.00	517.00	3.25	517.00
11009	1140	1141	S	1102	QA	ZG	0.00	517.00	3.25	517.00	13003	1301	-4624	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4624	-4625	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4625	-4626	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4626	-4627	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4627	-4628	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4628	-4629	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4629	-4630	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4630	-4631	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4631	1302	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	1302	-4632	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4632	-4633	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4633	-4634	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4634	-4635	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4635	-4636	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4636	-4637	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4637	-4638	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4638	-4639	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4639	1303	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	1303	-4640	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4640	-4641	S	1300	QA	ZG	0.00	555.00	0.31	555.00	13003	-4640	-4641	S	1300	QA	ZG	0.31	377.00	0.36	377.00
13003	-4641	-4642	S	1300	QA	ZG	0.00	377.00	0.36	377.00	13003	-4642	-4643	S	1300	QA	ZG	0.00	377.00	0.36	377.00
13003	-4643	-4644	S	1300	QA	ZG	0.00	377.00	0.36	377.00	13003	-4644	-4645	S	1300	QA	ZG	0.00	377.00	0.36	377.00
13003	-4645	-4646	S	1300	QA	ZG	0.00	377.00	0.07	377.00	13003	-4645	-4646	S	1300	QA	ZG	0.07	555.00	0.36	555.00
13003	-4646	1304	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	1304	-4647	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4647	-4648	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4648	-4649	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4649	-4650	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4650	-4651	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4651	-4652	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4652	-4653	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4653	-4654	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4654	1305	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	1305	-4655	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4655	-4656	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4656	-4657	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4657	-4658	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4658	-4659	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4659	-4660	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4660	-4661	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	-4661	-4662	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4662	1306	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13003	1306	1307	S	1300	QA	ZG	0.00	555.00	3.25	555.00
13007	1321	1322	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13007	1321	1322	S	1301	QA	ZG	0.00	517.00	3.23	517.00
13007	1321	1322	S	1300	QA	ZG	2.87	555.00	3.23	555.00	13007	1321	1322	S	1300	QA	ZG	2.15	555.00	2.87	555.00
13007	1321	1322	S	1300	QA	ZG	1.79	555.00	2.15	555.00	13007	1321	1322	S	1300	QA	ZG	1.44	555.00	1.79	555.00
13007	1321	1322	S	1300	QA	ZG	0.72	555.00	1.44	555.00	13007	1321	1322	S	1300	QA	ZG	0.36	555.00	0.72	555.00
13007	1322	1385	S	1300	QA	ZG	0.00	555.00	0.36	555.00	13007	1322	1385	S	1301	QA	ZG	0.00	517.00	3.23	517.00
13007	1322	1385	S	1300	QA	ZG	0.36	555.00	3.23	555.00	13007	1385	1386	S	1300	QA	ZG	0.00	555.00	0.67	555.00
13007	1387	1388	S	1300	QA	ZG	0.00	555.00	0.65	555.00	13007	1388	1323	S	1300	QA	ZG	0.00	555.00	3.25	555.00
13007	1388	1323	S	1302	QA	ZG	0.00	517.00	3.25	517.00	13007	1323	1324	S	1300	QA	ZG	0.00	555.00	3.25	555.00
13007	1323	1324	S	1302	QA	ZG	0.00	517.00	3.25	517.00	13007	1324	1325	S	1300	QA	ZG	0.00	555.00	3.25	555.00
13007	1324	1325	S	1302	QA	ZG	0.00	517.00	3.25	517.00	13009	1335	1336	S	1301	QA	ZG	0.00	517.00	3.23	517.00
13009	1336	1337	S	1301	QA	ZG	0.00	517.00	3.23	517.00	13009	1338	1339	S	1302	QA	ZG	0.00	517.00	3.25	517.00
13009	1339	1340	S	1302	QA	ZG	0.00	517.00	3.25	517.00	13009	1340	1341	S	1302	QA	ZG	0.00	517.00	3.25	517.00
15003	1501	-5389	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	-5389	-5390	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5390	-5391	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	-5391	-5392	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5392	-5393	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	-5393	-5394	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5394	-5395	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	-5395	-5396	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5396	1502	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	1502	-5397	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5397	-5398	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	-5398	-5399	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5399	-5400	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	-5400	-5401	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5401	-5402	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	-5402	-5403	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5403	-5404	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	-5404	1503	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	1503	-5405	S	1500	QA	ZG	0.00	555.00	0.36	555.00	15003	-5405	-5406	S	1500	QA	ZG	0.00	555.00	0.31	555.00

15003	-5405	-5406	S	1500	QA	ZG	0.31	377.00	0.36	377.00
15003	-5407	-5408	S	1500	QA	ZG	0.00	377.00	0.36	377.00
15003	-5409	-5410	S	1500	QA	ZG	0.00	377.00	0.36	377.00
15003	-5410	-5411	S	1500	QA	ZG	0.07	555.00	0.36	555.00
15003	1504	-5412	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5413	-5414	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5415	-5416	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5417	-5418	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5419	1505	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5420	-5421	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5422	-5423	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5424	-5425	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5426	-5427	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	1506	1507	S	1500	QA	ZG	0.00	555.00	3.25	555.00
15007	1521	1522	S	1500	QA	ZG	2.87	555.00	3.23	555.00
15007	1521	1522	S	1500	QA	ZG	1.79	555.00	2.15	555.00
15007	1521	1522	S	1500	QA	ZG	0.72	555.00	1.44	555.00
15007	1521	1522	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15007	1522	1585	S	1500	QA	ZG	0.36	555.00	3.23	555.00
15007	1585	1586	S	1500	QA	ZG	0.00	555.00	0.67	555.00
15007	1588	1523	S	1502	QA	ZG	0.00	517.00	3.25	517.00
15007	1523	1524	S	1502	QA	ZG	0.00	517.00	3.25	517.00
15007	1524	1525	S	1502	QA	ZG	0.00	517.00	3.25	517.00
15009	1535	1536	S	1501	QA	ZG	0.00	517.00	3.23	517.00
15009	1538	1539	S	1502	QA	ZG	0.00	517.00	3.25	517.00
15009	1540	1541	S	1502	QA	ZG	0.00	517.00	3.25	517.00
17003	-6155	-6156	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6157	-6158	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6159	-6160	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6161	-6162	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	1702	-6163	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6164	-6165	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6166	-6167	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6168	-6169	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6170	1703	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6171	-6172	S	1700	QA	ZG	0.00	555.00	0.31	555.00
17003	-6172	-6173	S	1700	QA	ZG	0.00	377.00	0.36	377.00
17003	-6174	-6175	S	1700	QA	ZG	0.00	377.00	0.36	377.00
17003	-6176	-6177	S	1700	QA	ZG	0.00	377.00	0.07	377.00
17003	-6177	1704	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6178	-6179	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6180	-6181	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6182	-6183	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6184	-6185	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	1705	-6186	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6187	-6188	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6189	-6190	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6191	-6192	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6193	1706	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17007	1721	1722	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17007	1721	1722	S	1700	QA	ZG	2.87	555.00	3.23	555.00
17007	1721	1722	S	1700	QA	ZG	1.79	555.00	2.15	555.00
17007	1721	1722	S	1700	QA	ZG	0.72	555.00	1.44	555.00
17007	1722	1785	S	1700	QA	ZG	0.00	555.00	0.36	555.00

15003	-5406	-5407	S	1500	QA	ZG	0.00	377.00	0.36	377.00
15003	-5408	-5409	S	1500	QA	ZG	0.00	377.00	0.36	377.00
15003	-5410	-5411	S	1500	QA	ZG	0.00	377.00	0.07	377.00
15003	-5411	1504	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5412	-5413	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5414	-5415	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5416	-5417	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5418	-5419	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	1505	-5420	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5421	-5422	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5423	-5424	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5425	-5426	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5427	1506	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15007	1521	1522	S	1501	QA	ZG	0.00	517.00	3.23	517.00
15007	1521	1522	S	1500	QA	ZG	2.15	555.00	2.87	555.00
15007	1521	1522	S	1500	QA	ZG	1.44	555.00	1.79	555.00
15007	1521	1522	S	1500	QA	ZG	0.36	555.00	0.72	555.00
15007	1522	1585	S	1501	QA	ZG	0.00	517.00	3.23	517.00
15007	1522	1585	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15007	1587	1588	S	1500	QA	ZG	0.00	555.00	0.65	555.00
15007	1588	1523	S	1500	QA	ZG	0.00	555.00	3.25	555.00
15007	1523	1524	S	1500	QA	ZG	0.00	555.00	3.25	555.00
15007	1524	1525	S	1500	QA	ZG	0.00	555.00	3.25	555.00
15009	1536	1537	S	1501	QA	ZG	0.00	517.00	3.23	517.00
15009	1539	1540	S	1502	QA	ZG	0.00	517.00	3.25	517.00
17003	1701	-6155	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6156	-6157	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6158	-6159	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6160	-6161	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6162	1702	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6163	-6164	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6165	-6166	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6167	-6168	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6169	-6170	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	1703	-6171	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6171	-6172	S	1700	QA	ZG	0.31	377.00	0.36	377.00
17003	-6173	-6174	S	1700	QA	ZG	0.00	377.00	0.36	377.00
17003	-6175	-6176	S	1700	QA	ZG	0.00	377.00	0.36	377.00
17003	-6176	-6177	S	1700	QA	ZG	0.07	555.00	0.36	555.00
17003	1704	-6178	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6179	-6180	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6181	-6182	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6183	-6184	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6185	1705	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6186	-6187	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6188	-6189	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6190	-6191	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	-6192	-6193	S	1700	QA	ZG	0.00	555.00	0.36	555.00
17003	1706	1707	S	1700	QA	ZG	0.00	555.00	3.25	555.00
17007	1721	1722	S	1701	QA	ZG	0.00	517.00	3.23	517.00
17007	1721	1722	S	1700	QA	ZG	2.15	555.00	2.87	555.00
17007	1721	1722	S	1700	QA	ZG	1.44	555.00	1.79	555.00
17007	1721	1722	S	1700	QA	ZG	0.36	555.00	0.72	555.00
17007	1722	1785	S	1701	QA	ZG	0.00	517.00	3.23	517.00

Relazione di calcolo

17007	1722	1785	S	1700	QA	ZG	0.36	555.00	3.23	555.00	17007	1785	1786	S	1700	QA	ZG	0.00	555.00	0.67	555.00
17007	1787	1788	S	1700	QA	ZG	0.00	555.00	0.65	555.00	17007	1788	1723	S	1700	QA	ZG	0.00	555.00	3.25	555.00
17007	1788	1723	S	1702	QA	ZG	0.00	517.00	3.25	517.00	17007	1723	1724	S	1700	QA	ZG	0.00	555.00	3.25	555.00
17007	1723	1724	S	1702	QA	ZG	0.00	517.00	3.25	517.00	17007	1724	1725	S	1700	QA	ZG	0.00	555.00	3.25	555.00
17007	1724	1725	S	1702	QA	ZG	0.00	517.00	3.25	517.00	17009	1735	1736	S	1701	QA	ZG	0.00	517.00	3.23	517.00
17009	1736	1737	S	1701	QA	ZG	0.00	517.00	3.23	517.00	17009	1738	1739	S	1702	QA	ZG	0.00	517.00	3.25	517.00
17009	1739	1740	S	1702	QA	ZG	0.00	517.00	3.25	517.00	17009	1740	1741	S	1702	QA	ZG	0.00	517.00	3.25	517.00
19003	1901	-6920	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6920	-6921	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6921	-6922	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6922	-6923	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6923	-6924	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6924	-6925	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6925	-6926	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6926	-6927	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6927	1902	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	1902	-6928	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6928	-6929	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6929	-6930	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6930	-6931	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6931	-6932	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6932	-6933	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6933	-6934	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6934	-6935	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6935	1903	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	1903	-6936	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6936	-6937	S	1902	QA	ZG	0.00	555.00	0.31	555.00
19003	-6936	-6937	S	1902	QA	ZG	0.31	377.00	0.36	377.00	19003	-6937	-6938	S	1902	QA	ZG	0.00	377.00	0.36	377.00
19003	-6938	-6939	S	1902	QA	ZG	0.00	377.00	0.36	377.00	19003	-6939	-6940	S	1902	QA	ZG	0.00	377.00	0.36	377.00
19003	-6940	-6941	S	1902	QA	ZG	0.00	377.00	0.36	377.00	19003	-6941	-6942	S	1902	QA	ZG	0.00	377.00	0.07	377.00
19003	-6941	-6942	S	1902	QA	ZG	0.07	555.00	0.36	555.00	19003	-6942	1904	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	1904	-6943	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6943	-6944	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6944	-6945	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6945	-6946	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6946	-6947	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6947	-6948	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6948	-6949	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6949	-6950	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6950	1905	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	1905	-6951	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6951	-6952	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6952	-6953	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6953	-6954	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6954	-6955	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6955	-6956	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6956	-6957	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	-6957	-6958	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19003	-6958	1906	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19003	1906	1907	S	1902	QA	ZG	0.00	555.00	3.25	555.00	19007	1921	1922	S	1901	QA	ZG	0.00	517.00	3.23	517.00
19007	1921	1922	S	1902	QA	ZG	2.87	555.00	3.23	555.00	19007	1921	1922	S	1902	QA	ZG	2.15	555.00	2.87	555.00
19007	1921	1922	S	1902	QA	ZG	1.79	555.00	2.15	555.00	19007	1921	1922	S	1902	QA	ZG	1.44	555.00	1.79	555.00
19007	1921	1922	S	1902	QA	ZG	0.72	555.00	1.44	555.00	19007	1921	1922	S	1902	QA	ZG	0.36	555.00	0.72	555.00
19007	1921	1922	S	1902	QA	ZG	0.00	555.00	0.36	555.00	19007	1922	1985	S	1901	QA	ZG	0.00	517.00	3.23	517.00
19007	1922	1985	S	1902	QA	ZG	0.36	555.00	3.23	555.00	19007	1922	1985	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19007	1985	1986	S	1902	QA	ZG	0.00	555.00	0.67	555.00	19007	1987	1988	S	1902	QA	ZG	0.00	555.00	0.65	555.00
19007	1988	1923	S	1900	QA	ZG	0.00	517.00	3.25	517.00	19007	1988	1923	S	1902	QA	ZG	0.00	555.00	3.25	555.00
19007	1923	1924	S	1900	QA	ZG	0.00	517.00	3.25	517.00	19007	1923	1924	S	1902	QA	ZG	0.00	555.00	3.25	555.00
19007	1924	1925	S	1900	QA	ZG	0.00	517.00	3.25	517.00	19007	1924	1925	S	1902	QA	ZG	0.00	555.00	3.25	555.00
19009	1935	1936	S	1901	QA	ZG	0.00	517.00	3.23	517.00	19009	1936	1937	S	1901	QA	ZG	0.00	517.00	3.23	517.00
19009	1938	1939	S	1900	QA	ZG	0.00	517.00	3.25	517.00	19009	1939	1940	S	1900	QA	ZG	0.00	517.00	3.25	517.00
19009	1940	1941	S	1900	QA	ZG	0.00	517.00	3.25	517.00	22010	1	21	S	2216	QA	ZG	0.00	323.00	5.55	323.00
22010	21	35	S	2217	QA	ZG	0.00	323.00	5.17	323.00	22011	2	22	S	2214	QA	ZG	0.00	323.00	5.55	323.00
22011	2	22	S	2216	QA	ZG	0.00	323.00	5.55	323.00	22011	22	36	S	2215	QA	ZG	0.00	323.00	5.17	323.00
22011	22	36	S	2217	QA	ZG	0.00	323.00	5.17	323.00	22012	3	57	S	2201	QA	ZG	0.00	290.00	2.66	290.00
22012	3	57	S	2214	QA	ZG	0.00	323.00	2.66	323.00	22012	57	-98	S	2201	QA	ZG	0.00	290.00	1.11	290.00
22012	57	-98	S	2214	QA	ZG	0.00	323.00	1.11	323.00	22012	-98	-116	S	2201	QA	ZG	0.00	290.00	0.59	290.00
22012	-98	-116	S	2214	QA	ZG	0.00	323.00	0.59	323.00	22012	-116	-133	S	2201	QA	ZG	0.00	290.00	0.59	290.00
22012	-116	-133	S	2214	QA	ZG	0.00	323.00	0.59	323.00	22012	-133	-150	S	2201	QA	ZG	0.00	290.00	0.59	290.00
22012	-133	-150	S	2214	QA	ZG	0.00	323.00	0.59	323.00	22012	-150	-171	S	2200	QA	ZG	0.00	290.00	1.11	290.00
22012	-150	-171	S	2215	QA	ZG	0.00	323.00	1.11	323.00	22012	-171	37	S	2200	QA	ZG	0.00	290.00	4.06	290.00
22012	-171	37	S	2215	QA	ZG	0.00	323.00	4.06	323.00	22017	4	58	S	2201	QA	ZG	0.00	290.00	2.66	290.00
22017	4	58	S	2218	QA	ZG	0.00	325.00	2.66	325.00	22017	58	-102	S	2201	QA	ZG	0.00	290.00	1.11	290.00

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22017	58	-102	S	2218	QA	ZG	0.00	325.00	1.11	325.00
22017	-102	-120	S	2218	QA	ZG	0.00	325.00	0.59	325.00
22017	-120	-137	S	2218	QA	ZG	0.00	325.00	0.59	325.00
22017	-137	-154	S	2218	QA	ZG	0.00	325.00	0.59	325.00
22017	-154	-175	S	2219	QA	ZG	0.00	325.00	1.11	325.00
22017	-175	38	S	2219	QA	ZG	0.00	325.00	4.06	325.00
22018	5	23	S	2218	QA	ZG	0.00	325.00	5.55	325.00
22018	23	39	S	2219	QA	ZG	0.00	325.00	5.17	325.00
22019	6	24	S	2213	QA	ZG	0.00	325.00	5.55	325.00
22019	24	40	S	2212	QA	ZG	0.00	325.00	5.17	325.00
22020	25	41	S	2211	QA	ZG	0.00	325.00	5.17	325.00

22017	-102	-120	S	2201	QA	ZG	0.00	290.00	0.59	290.00
22017	-120	-137	S	2201	QA	ZG	0.00	290.00	0.59	290.00
22017	-137	-154	S	2201	QA	ZG	0.00	290.00	0.59	290.00
22017	-154	-175	S	2200	QA	ZG	0.00	290.00	1.11	290.00
22017	-175	38	S	2200	QA	ZG	0.00	290.00	4.06	290.00
22018	5	23	S	2213	QA	ZG	0.00	325.00	5.55	325.00
22018	23	39	S	2212	QA	ZG	0.00	325.00	5.17	325.00
22019	6	24	S	2210	QA	ZG	0.00	325.00	5.55	325.00
22019	24	40	S	2211	QA	ZG	0.00	325.00	5.17	325.00
22020	7	25	S	2210	QA	ZG	0.00	325.00	5.55	325.00

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>
0	-7035	-7036	S	1902	QA2	ZG	0.00	150.80	0.79	150.80
19003	1901	-6920	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6921	-6922	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6923	-6924	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6925	-6926	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6927	1902	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6928	-6929	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6930	-6931	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6932	-6933	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6934	-6935	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	1903	-6936	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6936	-6937	S	1902	QA2	ZG	0.31	150.80	0.36	150.80
19003	-6938	-6939	S	1902	QA2	ZG	0.00	150.80	0.36	150.80
19003	-6940	-6941	S	1902	QA2	ZG	0.00	150.80	0.36	150.80
19003	-6941	-6942	S	1902	QA2	ZG	0.07	222.00	0.36	222.00
19003	1904	-6943	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6944	-6945	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6946	-6947	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6948	-6949	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6950	1905	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6951	-6952	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6953	-6954	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6955	-6956	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6957	-6958	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	1906	1907	S	1902	QA2	ZG	0.00	222.00	3.25	222.00
19007	1921	1922	S	1902	QA2	ZG	2.87	222.00	3.23	222.00
19007	1921	1922	S	1902	QA2	ZG	1.79	222.00	2.15	222.00
19007	1921	1922	S	1902	QA2	ZG	0.72	222.00	1.44	222.00
19007	1921	1922	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19007	1922	1985	S	1902	QA2	ZG	0.36	222.00	3.23	222.00
19007	1985	1986	S	1902	QA2	ZG	0.00	222.00	0.67	222.00
19007	1988	1923	S	1900	QA2	ZG	0.00	206.80	3.25	206.80
19007	1923	1924	S	1900	QA2	ZG	0.00	206.80	3.25	206.80
19007	1924	1925	S	1900	QA2	ZG	0.00	206.80	3.25	206.80
19009	1935	1936	S	1901	QA2	ZG	0.00	206.80	3.23	206.80
19009	1938	1939	S	1900	QA2	ZG	0.00	206.80	3.25	206.80
19009	1940	1941	S	1900	QA2	ZG	0.00	206.80	3.25	206.80

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-7036	-7037	S	1902	QA2	ZG	0.00	150.80	0.79	150.80
19003	-6920	-6921	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6922	-6923	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6924	-6925	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6926	-6927	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	1902	-6928	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6929	-6930	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6931	-6932	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6933	-6934	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6935	1903	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6936	-6937	S	1902	QA2	ZG	0.00	222.00	0.31	222.00
19003	-6937	-6938	S	1902	QA2	ZG	0.00	150.80	0.36	150.80
19003	-6939	-6940	S	1902	QA2	ZG	0.00	150.80	0.36	150.80
19003	-6941	-6942	S	1902	QA2	ZG	0.00	150.80	0.07	150.80
19003	-6942	1904	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6943	-6944	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6945	-6946	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6947	-6948	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6949	-6950	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	1905	-6951	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6952	-6953	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6954	-6955	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6956	-6957	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19003	-6958	1906	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19007	1921	1922	S	1901	QA2	ZG	0.00	206.80	3.23	206.80
19007	1921	1922	S	1902	QA2	ZG	2.15	222.00	2.87	222.00
19007	1921	1922	S	1902	QA2	ZG	1.44	222.00	1.79	222.00
19007	1921	1922	S	1902	QA2	ZG	0.36	222.00	0.72	222.00
19007	1922	1985	S	1901	QA2	ZG	0.00	206.80	3.23	206.80
19007	1922	1985	S	1902	QA2	ZG	0.00	222.00	0.36	222.00
19007	1987	1988	S	1902	QA2	ZG	0.00	222.00	0.65	222.00
19007	1988	1923	S	1902	QA2	ZG	0.00	222.00	3.25	222.00
19007	1923	1924	S	1902	QA2	ZG	0.00	222.00	3.25	222.00
19007	1924	1925	S	1902	QA2	ZG	0.00	222.00	3.25	222.00
19009	1936	1937	S	1901	QA2	ZG	0.00	206.80	3.23	206.80
19009	1939	1940	S	1900	QA2	ZG	0.00	206.80	3.25	206.80

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

Relazione di calcolo

Asta	N1	N2	E	N	T	DC	Xi	Qi	Xf	Qf
							<m>	<daN/m>	<m>	<daN/m>
3060	398	254	--	--	M	ZG	0.00	351.00	2.44	351.00
5060	598	454	--	--	M	ZG	0.00	351.00	2.44	351.00
7060	798	654	--	--	M	ZG	0.00	351.00	2.44	351.00
9060	998	854	--	--	M	ZG	0.00	351.00	2.44	351.00
11060	1198	1054	--	--	M	ZG	0.00	351.00	2.44	351.00
13060	1398	1254	--	--	M	ZG	0.00	351.00	2.44	351.00
15060	1598	1454	--	--	M	ZG	0.00	351.00	2.44	351.00
17060	1798	1654	--	--	M	ZG	0.00	351.00	2.44	351.00
19060	1998	1854	--	--	M	ZG	0.00	351.00	2.44	351.00

Asta	N1	N2	E	N	T	DC	Xi	Qi	Xf	Qf
							<m>	<daN/m>	<m>	<daN/m>
4012	397	453	--	--	M	ZG	0.00	351.00	2.44	351.00
6012	597	653	--	--	M	ZG	0.00	351.00	2.44	351.00
8012	797	853	--	--	M	ZG	0.00	351.00	2.44	351.00
10012	997	1053	--	--	M	ZG	0.00	351.00	2.44	351.00
12012	1197	1253	--	--	M	ZG	0.00	351.00	2.44	351.00
14012	1397	1453	--	--	M	ZG	0.00	351.00	2.44	351.00
16012	1597	1653	--	--	M	ZG	0.00	351.00	2.44	351.00
18012	1797	1853	--	--	M	ZG	0.00	351.00	2.44	351.00

Condizione di carico n. 6: scale variabile

Carichi distribuiti

Asta	N1	N2	E	N	T	DC	Xi	Qi	Xf	Qf
							<m>	<daN/m>	<m>	<daN/m>
3060	398	254	--	--	M	ZG	0.00	468.00	2.44	468.00
5060	598	454	--	--	M	ZG	0.00	468.00	2.44	468.00
7060	798	654	--	--	M	ZG	0.00	468.00	2.44	468.00
9060	998	854	--	--	M	ZG	0.00	468.00	2.44	468.00
11060	1198	1054	--	--	M	ZG	0.00	468.00	2.44	468.00
13060	1398	1254	--	--	M	ZG	0.00	468.00	2.44	468.00
15060	1598	1454	--	--	M	ZG	0.00	468.00	2.44	468.00
17060	1798	1654	--	--	M	ZG	0.00	468.00	2.44	468.00
19060	1998	1854	--	--	M	ZG	0.00	468.00	2.44	468.00

Asta	N1	N2	E	N	T	DC	Xi	Qi	Xf	Qf
							<m>	<daN/m>	<m>	<daN/m>
4012	397	453	--	--	M	ZG	0.00	468.00	2.44	468.00
6012	597	653	--	--	M	ZG	0.00	468.00	2.44	468.00
8012	797	853	--	--	M	ZG	0.00	468.00	2.44	468.00
10012	997	1053	--	--	M	ZG	0.00	468.00	2.44	468.00
12012	1197	1253	--	--	M	ZG	0.00	468.00	2.44	468.00
14012	1397	1453	--	--	M	ZG	0.00	468.00	2.44	468.00
16012	1597	1653	--	--	M	ZG	0.00	468.00	2.44	468.00
18012	1797	1853	--	--	M	ZG	0.00	468.00	2.44	468.00

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.	Mat.	P	PQ
		<cm>		<daN/mc>	<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
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	Qy	Qz
							<daN/mq>	<daN/mq>	<daN/mq>
2289	--	--	--	--	M	G	0.00	0.00	90.00
2295	--	--	--	--	M	G	0.00	0.00	90.00
2301	--	--	--	--	M	G	0.00	0.00	90.00
2307	--	--	--	--	M	G	0.00	0.00	90.00

Bid.	N1	N2	N3	N4	T	DC	Qx	Qy	Qz
							<daN/mq>	<daN/mq>	<daN/mq>
2292	--	--	--	--	M	G	0.00	0.00	90.00
2298	--	--	--	--	M	G	0.00	0.00	90.00
2304	--	--	--	--	M	G	0.00	0.00	90.00
2310	--	--	--	--	M	G	0.00	0.00	90.00

Relazione di calcolo

2313	--	--	--	--	--	MG	0.00	0.00	90.00
------	----	----	----	----	----	----	------	------	-------

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

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2289	--	--	--	--	MG	0.00	0.00	400.00
2295	--	--	--	--	MG	0.00	0.00	400.00
2301	--	--	--	--	MG	0.00	0.00	400.00
2307	--	--	--	--	MG	0.00	0.00	400.00
2313	--	--	--	--	MG	0.00	0.00	400.00

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2292	--	--	--	--	MG	0.00	0.00	400.00
2298	--	--	--	--	MG	0.00	0.00	400.00
2304	--	--	--	--	MG	0.00	0.00	400.00
2310	--	--	--	--	MG	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>
2317	--	--	--	--	MG	0.00	0.00	125.00
2321	--	--	--	--	MG	0.00	0.00	125.00
2327	--	--	--	--	MG	0.00	0.00	125.00
2333	--	--	--	--	MG	0.00	0.00	125.00
2339	--	--	--	--	MG	0.00	0.00	125.00
2345	--	--	--	--	MG	0.00	0.00	125.00
2349	--	--	--	--	MG	0.00	0.00	125.00
2351	--	--	--	--	MG	0.00	0.00	125.00
2353	--	--	--	--	MG	0.00	0.00	125.00

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2318	--	--	--	--	MG	0.00	0.00	125.00
2324	--	--	--	--	MG	0.00	0.00	125.00
2330	--	--	--	--	MG	0.00	0.00	125.00
2336	--	--	--	--	MG	0.00	0.00	125.00
2342	--	--	--	--	MG	0.00	0.00	125.00
2348	--	--	--	--	MG	0.00	0.00	125.00
2350	--	--	--	--	MG	0.00	0.00	125.00
2352	--	--	--	--	MG	0.00	0.00	125.00
2354	--	--	--	--	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>
2317	--	--	--	--	MG	0.00	0.00	400.00
2321	--	--	--	--	MG	0.00	0.00	400.00
2327	--	--	--	--	MG	0.00	0.00	400.00
2333	--	--	--	--	MG	0.00	0.00	400.00
2339	--	--	--	--	MG	0.00	0.00	400.00
2345	--	--	--	--	MG	0.00	0.00	400.00
2349	--	--	--	--	MG	0.00	0.00	400.00
2351	--	--	--	--	MG	0.00	0.00	400.00
2353	--	--	--	--	MG	0.00	0.00	400.00

Bid.	N1	N2	N3	N4	TDC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2318	--	--	--	--	MG	0.00	0.00	400.00
2324	--	--	--	--	MG	0.00	0.00	400.00
2330	--	--	--	--	MG	0.00	0.00	400.00
2336	--	--	--	--	MG	0.00	0.00	400.00
2342	--	--	--	--	MG	0.00	0.00	400.00
2348	--	--	--	--	MG	0.00	0.00	400.00
2350	--	--	--	--	MG	0.00	0.00	400.00
2352	--	--	--	--	MG	0.00	0.00	400.00
2354	--	--	--	--	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
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%

Relazione di calcolo

- 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: Si
- Check sequenza di Sturm: Si
- Analisi non lineare con Newton modificato: No
- Usa formulazione secante per buckling: No
- Trascura buckling torsionale: No

Dati struttura

- Edificio esistente: Si
- 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
- 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	γ_{max}	γ_{max}	γ_{max}	γ_{max}	γ_{max}	γ_{max}
2	Amb. 1 (SLE R)	SLE R	1	1	1	1	1	1
3	Amb. 1 (SLE F)	SLE F	1	1	Ψ_1	Ψ_1	1	Ψ_1
4	Amb. 1 (SLE Q)	SLE Q	1	1	Ψ_2	Ψ_2	1	Ψ_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

Relazione di calcolo

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 <daN>	CC	TCC	Fy <daN>	CC	TCC	Fz <daN>	CC	TCC	Mx <daNm>	CC	TCC	My <daNm>	CC	TCC	Mz <daNm>
-7142	Max	4	SLE Q	-140.00	4	SLE Q	-2.93	1	SLU	42386.80	2	SLE R	-16.72	4	SLE Q	-135.27	4	SLE Q	-7.27
-7142	Min	1	SLU	-233.90	1	SLU	-35.93	4	SLE Q	26055.80	4	SLE Q	-27.49	1	SLU	-211.87	1	SLU	-14.91
-7141	Max	1	SLU	587.98	4	SLE Q	-146.56	1	SLU	43745.70	1	SLU	105.81	1	SLU	208.67	4	SLE Q	-4.77
-7141	Min	4	SLE Q	357.47	1	SLU	-301.46	4	SLE Q	26812.20	4	SLE Q	39.92	4	SLE Q	134.29	1	SLU	-7.03
-7137	Max	1	SLU	197.95	4	SLE Q	27.01	1	SLU	41867.00	1	SLU	-13.68	4	SLE Q	-3.53	4	SLE Q	-6.42
-7137	Min	4	SLE Q	121.14	2	SLE R	15.47	4	SLE Q	25746.40	4	SLE Q	-26.18	1	SLU	-6.90	1	SLU	-11.62
-176	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
-176	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
-175	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	8731.67	1	SLU	3705.02	1	SLU	0.00	1	SLU	0.00
-175	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	5164.24	4	SLE Q	2128.14	1	SLU	0.00	1	SLU	0.00
-174	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
-174	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
-173	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
-173	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
-172	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
-172	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
-171	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	8710.12	1	SLU	3695.00	1	SLU	0.00	1	SLU	0.00
-171	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	5152.72	4	SLE Q	2122.78	1	SLU	0.00	1	SLU	0.00
-170	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
-170	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
-155	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	542.51	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-155	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	417.32	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-154	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	3881.14	1	SLU	233.27	1	SLU	0.00	1	SLU	0.00
-154	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	2457.69	4	SLE Q	133.99	1	SLU	0.00	1	SLU	0.00
-153	Max	4	SLE Q	-1593.74	4	SLE Q	-861.28	1	SLU	43829.10	1	SLU	90.45	4	SLE Q	-80.69	4	SLE Q	-2.16
-153	Min	1	SLU	-2637.59	1	SLU	-1526.19	4	SLE Q	26757.10	4	SLE Q	36.32	1	SLU	-133.65	1	SLU	-4.23
-152	Max	4	SLE Q	-260.89	4	SLE Q	-88.20	1	SLU	48693.30	1	SLU	13.98	4	SLE Q	-22.93	4	SLE Q	-2.45
-152	Min	1	SLU	-437.37	1	SLU	-168.11	4	SLE Q	29709.40	4	SLE Q	7.11	1	SLU	-38.29	1	SLU	-4.10
-151	Max	1	SLU	2304.94	4	SLE Q	-1133.55	1	SLU	42727.60	1	SLU	245.50	1	SLU	134.72	1	SLU	2.24
-151	Min	4	SLE Q	1396.79	1	SLU	-1988.34	4	SLE Q	26099.30	4	SLE Q	128.33	4	SLE Q	81.67	1	SLU	0.97
-150	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	3873.82	1	SLU	232.64	1	SLU	0.00	1	SLU	0.00
-150	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	2453.77	4	SLE Q	133.65	1	SLU	0.00	1	SLU	0.00
-149	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
-149	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
-138	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
-138	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
-137	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2703.90	4	SLE Q	-0.00	1	SLU	0.00	1	SLU	0.00
-137	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	1712.22	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00
-136	Max	4	SLE Q	-92.88	1	SLU	1886.83	1	SLU	37501.30	4	SLE Q	-65.23	4	SLE Q	-33.51	1	SLU	0.35
-136	Min	1	SLU	-171.15	4	SLE Q	1101.36	4	SLE Q	22880.80	1	SLU	-121.30	4	SLE Q	-59.01	1	SLU	0.11
-135	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
-135	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
-134	Max	1	SLU	151.71	1	SLU	2258.55	1	SLU	36982.80	4	SLE Q	-98.41	1	SLU	46.58	1	SLU	1.29
-134	Min	4	SLE Q	81.41	4	SLE Q	1327.01	4	SLE Q	22572.10	1	SLU	-176.83	4	SLE Q	26.09	1	SLU	0.86
-133	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2698.80	4	SLE Q	-0.00	1	SLU	0.00	1	SLU	0.00
-133	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	1709.49	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00
-132	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
-132	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
-121	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
-121	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
-120	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2703.90	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-120	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	1712.22	4	SLE Q	0.00	1	SLU	0.00	1	SLU	0.00
-119	Max	4	SLE Q	-45.37	1	SLU	2052.64	1	SLU	39508.20	2	SLE R	-39.28	4	SLE Q	-23.38	4	SLE Q	-2.52
-119	Min	1	SLU	-63.03	4	SLE Q	1287.11	4	SLE Q	24142.60	1	SLU	-51.21	1	SLU	-35.23	1	SLU	-4.37

Relazione di calcolo

-118	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
-118	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
-117	Max	1	SLU	35.02	1	SLU	1984.69	1	SLU	39002.80	1	SLU	-7.36	1	SLU	21.16	1	SLU	3.91
-117	Min	2	SLE R	27.38	4	SLE Q	1252.43	4	SLE Q	23842.10	4	SLE Q	-14.17	4	SLE Q	14.82	1	SLU	2.23
-116	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2698.80	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-116	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	1709.49	4	SLE Q	0.00	1	SLU	0.00	1	SLU	0.00
-115	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
-115	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
-103	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	542.51	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-103	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	417.32	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00
-102	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	3881.14	4	SLE Q	-133.99	1	SLU	0.00	1	SLU	0.00
-102	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	2457.69	1	SLU	-233.27	1	SLU	0.00	1	SLU	0.00
-101	Max	4	SLE Q	-1408.79	1	SLU	3686.81	1	SLU	50480.60	4	SLE Q	-162.42	4	SLE Q	-43.13	4	SLE Q	-0.76
-101	Min	1	SLU	-2315.58	4	SLE Q	2220.35	4	SLE Q	30937.60	1	SLU	-285.54	1	SLU	-70.12	1	SLU	-1.90
-100	Max	4	SLE Q	-236.46	1	SLU	283.73	1	SLU	53753.90	4	SLE Q	-80.17	4	SLE Q	-15.19	1	SLU	1.89
-100	Min	1	SLU	-386.37	4	SLE Q	176.94	4	SLE Q	32940.10	1	SLU	-129.17	4	SLE Q	-24.86	1	SLU	1.11
-99	Max	1	SLU	1826.79	1	SLU	4002.71	1	SLU	49401.40	4	SLE Q	-228.84	1	SLU	26.82	1	SLU	2.65
-99	Min	4	SLE Q	1110.29	4	SLE Q	2412.20	4	SLE Q	30292.30	1	SLU	-396.36	4	SLE Q	16.73	1	SLU	1.19
-98	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	3873.82	4	SLE Q	-133.65	1	SLU	0.00	1	SLU	0.00
-98	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	2453.77	1	SLU	-232.64	1	SLU	0.00	1	SLU	0.00
-97	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
-97	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
-89	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
-89	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
-88	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
-88	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
-87	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
-87	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
-86	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
-86	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
-85	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
-85	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
1	Max	1	SLU	1159.90	4	SLE Q	-275.65	1	SLU	181792.00	1	SLU	5389.78	2	SLE R	-442.56	4	SLE Q	-1.12
1	Min	4	SLE Q	691.64	1	SLU	-545.50	4	SLE Q	114754.00	4	SLE Q	3103.49	4	SLE Q	-597.53	1	SLU	-1.62
2	Max	4	SLE Q	-131.68	4	SLE Q	-1131.21	1	SLU	231237.00	1	SLU	10695.30	4	SLE Q	-162.56	4	SLE Q	-1.12
2	Min	1	SLU	-224.97	1	SLU	-1831.06	4	SLE Q	143129.00	4	SLE Q	6132.09	1	SLU	-276.49	1	SLU	-1.62
3	Max	1	SLU	102.88	4	SLE Q	-1970.55	1	SLU	239548.00	1	SLU	6230.34	1	SLU	693.16	4	SLE Q	-1.12
3	Min	4	SLE Q	82.31	1	SLU	-2950.51	4	SLE Q	151051.00	4	SLE Q	3883.75	4	SLE Q	539.67	1	SLU	-1.63
4	Max	4	SLE Q	-104.14	4	SLE Q	-1977.92	1	SLU	240045.00	1	SLU	6255.40	4	SLE Q	-618.05	4	SLE Q	-1.12
4	Min	1	SLU	-136.15	1	SLU	-2961.23	4	SLE Q	151337.00	4	SLE Q	3899.71	1	SLU	-808.05	1	SLU	-1.63
5	Max	1	SLU	150.31	4	SLE Q	-1184.80	1	SLU	234971.00	1	SLU	10846.40	1	SLU	152.31	4	SLE Q	-1.12
5	Min	4	SLE Q	81.32	1	SLU	-1909.12	4	SLE Q	145040.00	4	SLE Q	6228.63	4	SLE Q	80.81	1	SLU	-1.62
6	Max	4	SLE Q	-184.77	4	SLE Q	-885.63	1	SLU	217949.00	1	SLU	10318.30	4	SLE Q	-334.35	4	SLE Q	-1.12
6	Min	1	SLU	-335.26	1	SLU	-1437.57	4	SLE Q	135270.00	4	SLE Q	5893.83	1	SLU	-546.98	1	SLU	-1.62
7	Max	4	SLE Q	-318.01	1	SLU	230.84	1	SLU	94309.60	1	SLU	4612.70	1	SLU	2390.73	4	SLE Q	-0.38
7	Min	1	SLU	-520.41	4	SLE Q	173.84	4	SLE Q	60689.20	4	SLE Q	2657.52	2	SLE R	1879.48	1	SLU	-0.56
21	Max	1	SLU	1155.45	2	SLE R	-121.00	1	SLU	180820.00	4	SLE Q	-1399.56	2	SLE R	-757.23	4	SLE Q	-1.95
21	Min	4	SLE Q	656.45	1	SLU	-199.10	4	SLE Q	115230.00	1	SLU	-2430.63	4	SLE Q	-945.99	1	SLU	-2.84
22	Max	1	SLU	330.13	1	SLU	474.17	1	SLU	223051.00	4	SLE Q	-2818.28	1	SLU	2545.93	4	SLE Q	-1.95
22	Min	4	SLE Q	182.97	4	SLE Q	283.21	4	SLE Q	133851.00	1	SLU	-4927.13	4	SLE Q	1880.73	1	SLU	-2.84
23	Max	4	SLE Q	-233.54	1	SLU	417.85	1	SLU	215828.00	4	SLE Q	-2762.98	4	SLE Q	-2246.88	4	SLE Q	-1.95
23	Min	1	SLU	-404.78	4	SLE Q	246.27	4	SLE Q	128722.00	1	SLU	-4848.69	1	SLU	-3040.49	1	SLU	-2.84
24	Max	1	SLU	102.68	1	SLU	369.66	1	SLU	219444.00	4	SLE Q	-2726.63	2	SLE R	-63.23	4	SLE Q	-1.95
24	Min	4	SLE Q	67.67	4	SLE Q	221.55	4	SLE Q	131882.00	1	SLU	-4782.32	1	SLU	-78.35	1	SLU	-2.84
25	Max	4	SLE Q	-342.93	1	SLU	182.94	1	SLU	134448.00	4	SLE Q	-1555.15	1	SLU	2965.26	4	SLE Q	-0.58
25	Min	1	SLU	-603.03	4	SLE Q	94.33	4	SLE Q	84626.80	1	SLU	-2669.14	2	SLE R	2324.01	1	SLU	-0.85
35	Max	1	SLU	739.22	2	SLE R	-605.76	1	SLU	119048.00	4	SLE Q	-2453.78	2	SLE R	-333.44	4	SLE Q	-1.13
35	Min	4	SLE Q	450.17	1	SLU	-897.00	4	SLE Q	77321.00	1	SLU	-4353.32	4	SLE Q	-408.47	1	SLU	-1.65
36	Max	4	SLE Q	-70.82	1	SLU	88.88	1	SLU	147005.00	4	SLE Q	-5385.11	4	SLE Q	-85.22	4	SLE Q	-1.13
36	Min	1	SLU	-109.36	4	SLE Q	52.97	4	SLE Q	91916.00	1	SLU	-9530.49	1	SLU	-133.01	1	SLU	-1.65
37	Max	1	SLU	1844.81	4	SLE Q	139.82	1	SLU	93836.10	4	SLE Q	-3273.39	1	SLU	1977.36	4	SLE Q	-12.91
37	Min	4	SLE Q	1130.61	1	SLU	35.30	4	SLE Q	57728.10	1	SLU	-5511.05	4	SLE Q	1515.99	1	SLU	-27.55
38	Max	4	SLE Q	-1087.77	4	SLE Q	-572.77	1	SLU	98747.20	4	SLE Q	-2776.70	4	SLE Q	-1539.29	4	SLE Q	-31.32
38	Min	1	SLU	-1791.36	1	SLU	-1265.83	4	SLE Q	60455.30	1	SLU	-4608.48	1	SLU	-2014.14	1	SLU	-52.33
39	Max	1	SLU	43.77	1	SLU	116.84	1	SLU	147682.00	4	SLE Q	-5422.21	1	SLU	41.65	4	SLE Q	-1.12
39	Min	4	SLE Q	26.92	4	SLE Q	71.17	4	SLE Q	91834.20	1	SLU	-9597.32	4	SLE Q	26.26	1	SLU	-1.63
40	Max	1	SLU	144.23	1	SLU	99.09	1	SLU	151588.00	4	SLE Q	-5403.49	1	SLU	60.03	4	SLE Q	-1.12
40	Min	4	SLE Q	94.09	4	SLE Q	57.82	4	SLE Q	94698.70	1	SLU	-9571.98	4	SLE Q	28.87	1	SLU	-1.63
41	Max	4	SLE Q	-307.75	2	SLE R	-133.85	1	SLU	82930.30	4	SLE Q	-2956.75	1	SLU	1410.06	4	SLE Q	-0.38
41	Min	1	SLU	-507.47	1	SLU	-170.17	4	SLE Q	53308.30	1	SLU	-5122.01	2	SLE R	1126.51	1	SLU	-0.56
55	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2817.72	1	SLU	0.00	2	SLE R	-614.12	1	SLU	0.00
55	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	2167.48	1	SLU	0.00	1	SLU	-798.35	1	SLU	0.00
57	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	6108.96	4	SLE Q	-588.56	1	SLU	0.00	1	SLU	0.00
57	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	3658.35	1	SLU	-1024.47	1	SLU	0.00	1	SLU	0.00
58	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	6123.45	4	SLE Q	-590.04	1	SLU	0.00	1	SLU	0.00
58	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	3666.10	1	SLU	-1027.25	1	SLU	0.00	1	SLU	0.00
61	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	3447.57	1	SLU	0.00	2	SLE R	-751.39	1	SLU	0.00
61	Min	1	SLU	0.00															

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63	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	2308.79	1	SLU	0.00	1	SLU	-740.35	1	SLU	0.00
67	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	1878.49	1	SLU	0.00	2	SLE R	-409.41	1	SLU	0.00
67	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	1444.99	1	SLU	0.00	1	SLU	-532.24	1	SLU	0.00

Verifiche e armature travi

Simbologia

Δ_{sm}	=Distanza media tra le fessure
Φ_{eq}	=Diametro equivalente delle barre
ϵ_{sm}	=Deformazione unitaria media dell'armatura (*1000)
σ_c	=Tensione nel calcestruzzo
σ_f inf	=Tensione nel ferro - inferiore
σ_f sup	=Tensione nel ferro - superiore
σ_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 ₂	=Coefficiente per distribuzione deformazioni
Lung.	=Lunghezza del tratto di progettazione
MRdy	=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
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. 10012

Nodi: 997 1053 -3320 1037

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	-1996.54	-13043.50	6.533

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ_f sup	σ_f inf	σ_c
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Relazione di calcolo

<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.32	2	SLE R	3	52.50	6.16	3.08	-1429.09	418.00	-162.24	13.15
3.32	4	SLE Q	3	52.50	6.16	3.08	-941.66	275.43	-106.91	8.67

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-941.66	28.00	31.33	0.50	14.00	87.83	6.16	140.00	275.43	0.08	0.01
4	3.32	3	SLE F	3	16	52.50	-1080.93	28.00	31.33	0.50	14.00	87.83	6.16	140.00	316.16	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	1210.91	2.50	7619.38	26714.30	7619.38	6.292
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1210.91	2.50	7619.38	26714.30	7619.38	6.292
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2772.94	2.50	15238.80	26714.30	15238.80	5.496

Travata n. 11001

Nodi: 1155 -3362 -3363 -3364 -3365 -3366 -3367 -3368 -3369 1156

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	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	33.41	1506.47	45.084
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	150.66	1506.47	9.999
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	35.10	1506.47	42.922

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _ε sup	σ _ε inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	24.62	-15.42	65.29	2.74
0.00	4	SLE Q	1	0.00	3.08	3.08	21.53	-13.49	57.09	2.40
1.44	2	SLE R	5	0.00	3.08	3.08	109.38	-68.54	290.10	12.18
1.44	4	SLE Q	5	0.00	3.08	3.08	90.97	-57.00	241.27	10.13
3.23	2	SLE R	9	35.89	3.08	3.08	25.74	-16.13	68.27	2.87
3.23	4	SLE Q	9	35.89	3.08	3.08	22.13	-13.87	58.70	2.46

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cm^q>		<mm>
3	0.00	4	SLE Q	1	19	0.00	21.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.09	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	22.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.44	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	90.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	241.27	0.07	0.01
8	1.44	3	SLE F	5	19	0.00	96.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	255.21	0.07	0.01
11	3.23	4	SLE Q	9	19	35.89	22.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	58.70	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	23.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.42	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	185.06	2.50	7185.75	7873.13	7185.75	38.829
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	80.55	2.50	7185.75	7873.13	7185.75	89.205
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	201.19	2.50	7185.75	7873.13	7185.75	35.715

Travata n. 11002

Nodi: 1173 -3680 -3681 -3682 -3683 -3684 -3685 -3686 -3687 1174

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	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	-121.53	-1506.47	12.396
1.79	1	SLU	5	35.89	3.08	3.08	3.08	3.08	94.83	1506.47	15.886
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-115.80	-1506.47	13.010

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 _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-87.42	231.84	-54.77	9.73
0.00	4	SLE Q	1	0.00	3.08	3.08	-80.75	214.17	-50.60	8.99
1.79	2	SLE R	5	35.89	3.08	3.08	66.05	-41.39	175.18	7.35
1.79	4	SLE Q	5	35.89	3.08	3.08	57.12	-35.79	151.48	6.36
3.23	2	SLE R	9	35.89	3.08	3.08	-82.23	218.09	-51.52	9.15
3.23	4	SLE Q	9	35.89	3.08	3.08	-60.22	159.70	-37.73	6.70

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-80.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	214.17	0.06	0.01
4	0.00	3	SLE F	1	19	0.00	-82.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	219.35	0.06	0.01
7	1.79	4	SLE Q	5	19	35.89	57.12	28.00	134.00	0.50	14.00	93.58	3.08	82.65	151.48	0.04	0.01
8	1.79	3	SLE F	5	19	35.89	59.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	158.24	0.05	0.01
11	3.23	4	SLE Q	9	19	35.89	-60.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	159.70	0.05	0.01
12	3.23	3	SLE F	9	19	35.89	-66.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	176.36	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	642.14	2.50	7185.75	7873.13	7185.75	11.190
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	642.14	2.50	7185.75	7873.13	7185.75	11.190
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	274.67	2.50	7185.75	7873.13	7185.75	26.161

Travata n. 11011

Nodi: 1156 -3506 -3593 1173 -3801 1102

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.
1.90	1	SLU	5	35.43	3.08	3.08	3.08	3.08	-627.46	-1506.47	2.401

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-461.49	1223.94	-289.16	51.37
1.90	4	SLE Q	5	35.43	3.08	3.08	-385.98	1023.67	-241.84	42.97

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	35.43	-385.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1023.67	0.31	0.05
4	1.90	3	SLE F	5	19	35.43	-407.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1080.89	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	666.42	2.50	7185.75	7873.13	7185.75	10.783
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	683.39	2.50	7185.75	7873.13	7185.75	10.515

Travata n. 11012

Nodi: 1185 -3998 1197 1137

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.
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-424.12	-2142.71	5.052

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-309.53	563.85	-151.21	19.90

Relazione di calcolo

4.824	SLE Q	3	332.00	3.08	3.08	-240.32	437.77	-117.40	15.45
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Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q	3	18	332.00	-240.32	28.00	114.00	0.50	14.00	102.12	3.08	101.43		437.77	0.13	0.02
4	4.823	SLE F	3	18	332.00	-260.06	28.00	114.00	0.50	14.00	102.12	3.08	101.43		473.73	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	2554.01	2.50	7619.38	26714.30	7619.38	2.983
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	435.79	2.50	5079.58	10017.90	5079.58	11.656
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	464.57	2.50	5079.58	10017.90	5079.58	10.934

Travata n. 11013

Nodi: 1157 -3507 -3594 1174 -3802 1103

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	-8346.71	-9551.64	1.144	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.41	6.03	4.02	-6164.78	2412.74	-671.05	61.47	
1.904	SLE Q	5	35.41	6.03	4.02	-5604.39	2193.41	-610.05	55.88	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	30	35.41	-5604.39	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2193.41	0.90	0.19
4	1.903	SLE F	5	30	35.41	-5764.50	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2256.08	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	4066.78	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	5559.13	2.50	10241.80	20904.00	10241.80	1.842

Travata n. 11016

Nodi: 1158 -3508 -3595 1175 -3803 1104

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	-8346.90	-9551.64	1.144	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	E1	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	35.43	6.03	4.02	-6164.62	2412.67	-671.03	61.47	
1.904	SLE Q	5	35.43	6.03	4.02	-5605.20	2193.73	-610.14	55.89	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	30	35.43	-5605.20	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2193.73	0.91	0.19
4	1.903	SLE F	5	30	35.43	-5765.04	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2256.29	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>	

Relazione di calcolo

1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4077.14	2.50	10241.80	20904.00	10241.80	2.512
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5553.18	2.50	10241.80	20904.00	10241.80	1.844

Travata n. 11017

Nodi: 1188 -4002 1198 1138

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.
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-348.61	-2142.71	6.146

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
4.822	SLE R	3	332.00	3.08	3.08	-254.88	464.29	-124.51	16.38	
4.824	SLE Q	3	332.00	3.08	3.08	-198.19	361.03	-96.82	12.74	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	4.824	SLE Q	3	18	332.00	-198.19	28.00	114.00	0.50	14.00	102.12	3.08	101.43	361.03	0.11	0.02	
4	4.823	SLE F	3	18	332.00	-214.41	28.00	114.00	0.50	14.00	102.12	3.08	101.43	390.57	0.11	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	2053.24	2.50	7619.38	26714.30	7619.38	3.711
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	375.09	2.50	5079.58	10017.90	5079.58	13.542
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	403.87	2.50	5079.58	10017.90	5079.58	12.577

Travata n. 11018

Nodi: 1159 -3509 -3596 1176 -3804 1105

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	35.44	3.08	3.08	3.08	3.08	3.08	-647.06	-1506.47	2.328

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
1.902	SLE R	5	35.44	3.08	3.08	-474.78	1259.18	-297.48	52.85	
1.904	SLE Q	5	35.44	3.08	3.08	-399.15	1058.61	-250.10	44.43	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	19	35.44	-399.15	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1058.61	0.33	0.05	
4	1.903	SLE F	5	19	35.44	-420.76	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1115.91	0.33	0.05	

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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	682.91	2.50	7185.75	7873.13	7185.75	10.522
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	699.87	2.50	7185.75	7873.13	7185.75	10.267

Travata n. 11019

Nodi: 1160 -3439 -3530 -3614 -3729 1106

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

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>	
1.90	1	SLU	5	38.00	3.08	3.08	3.08	3.08	-782.78	-1506.47	1.925

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	38.00	3.08	3.08	-577.95	1532.82	-362.13	64.34
1.90	4	SLE Q	5	38.00	3.08	3.08	-484.87	1285.95	-303.81	53.98

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	38.00	-484.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1285.95	0.44	0.07
4	1.90	3	SLE F	5	19	38.00	-511.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1356.46	0.40	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	335.41	2.50	7185.75	7873.13	7185.75
1	SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	352.37	2.50	7185.75	7873.13	7185.75

Travata n. 11044

Nodi: 1157 -3370 -3371 -3372 -3373 -3374 -3375 -3376 1158

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	-185.12	-1506.47	8.138
1.27	1	SLU	4	18.12	3.08	3.08	3.08	3.08	223.29	1506.47	6.747
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-185.01	-1506.47	8.143

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-140.69	373.14	-88.15	15.66
0.00	4	SLE Q	1	0.00	3.08	3.08	-132.33	350.96	-82.91	14.73
1.27	2	SLE R	4	18.12	3.08	3.08	168.01	-105.27	445.59	18.70
1.27	4	SLE Q	4	18.12	3.08	3.08	153.85	-96.40	408.04	17.13
2.90	2	SLE R	8	36.25	3.08	3.08	-140.65	373.02	-88.13	15.66
2.90	4	SLE Q	8	36.25	3.08	3.08	-132.17	350.54	-82.81	14.71

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-132.33	28.00	134.00	0.50	14.00	93.58	3.08	82.65	350.96	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-134.72	28.00	134.00	0.50	14.00	93.58	3.08	82.65	357.29	0.10	0.02
7	1.27	4	SLE Q	4	19	18.12	153.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	408.04	0.12	0.02
8	1.27	3	SLE F	4	19	18.12	157.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	418.78	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-132.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	350.54	0.10	0.02
12	2.90	3	SLE F	8	19	36.25	-134.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	356.95	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	876.33	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	576.61	2.50	7185.75	7873.13	7185.75
1	SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	875.11	2.50	7185.75	7873.13	7185.75

Travata n. 11045

Nodi: 1175 -3688 -3689 -3690 -3691 -3692 -3693 -3694 -3695 1176

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

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>	
0.001	SLU	1	1	0.00	3.08	3.08	3.08	3.08	-122.03	-1506.47	12.345
1.441	SLU	5	1	0.00	3.08	3.08	3.08	3.08	90.74	1506.47	16.602
3.251	SLU	9	1	36.11	3.08	3.08	3.08	3.08	-155.08	-1506.47	9.714

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	-86.63	229.76	-54.28	9.64
0.004	SLE	Q	1	0.00	3.08	3.08	-63.73	169.02	-39.93	7.09
1.442	SLE	R	5	0.00	3.08	3.08	63.14	-39.56	167.46	7.03
1.444	SLE	Q	5	0.00	3.08	3.08	54.86	-34.37	145.50	6.11
3.252	SLE	R	9	36.11	3.08	3.08	-111.37	295.37	-69.78	12.40
3.254	SLE	Q	9	36.11	3.08	3.08	-99.97	265.14	-62.64	11.13

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.004	SLE	Q	1	19	0.00	-63.73	28.00	134.00	0.50	14.00	93.58	3.08	82.65	169.02	0.05	0.01
4	0.003	SLE	F	1	19	0.00	-70.26	28.00	134.00	0.50	14.00	93.58	3.08	82.65	186.33	0.05	0.01
7	1.444	SLE	Q	5	19	0.00	54.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	145.50	0.04	0.01
8	1.443	SLE	F	5	19	0.00	57.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	151.78	0.04	0.01
11	3.254	SLE	Q	9	19	36.11	-99.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	265.14	0.08	0.01
12	3.253	SLE	F	9	19	36.11	-103.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	273.81	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	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	268.12	2.50	7185.75	7873.13	7185.75	26.801
1	SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	636.13	2.50	7185.75	7873.13	7185.75	11.296
1	SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	636.13	2.50	7185.75	7873.13	7185.75	11.296

Travata n. 11060

Nodi: 1198 1054 -3322 1038

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>	
3.321	SLU	3	3	52.50	3.08	3.08	3.08	3.08	-2401.30	-6639.53	2.765

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.322	SLE	R	3	52.50	3.08	3.08	-1722.01	981.40	-228.14	20.08
3.324	SLE	Q	3	52.50	3.08	3.08	-1174.76	669.51	-155.64	13.70

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.324	SLE	Q	3	16	52.50	-1174.76	28.00	94.00	0.50	14.00	119.66	3.08	140.00	669.51	0.20	0.04
4	3.323	SLE	F	3	16	52.50	-1330.89	28.00	94.00	0.50	14.00	119.66	3.08	140.00	758.50	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	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1258.92	2.50	7619.38	26714.30	7619.38	6.052
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2018.11	2.50	7619.38	26714.30	7619.38	3.775
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	3247.77	2.50	15238.80	26714.30	15238.80	4.692

Travata n. 11087

Nodi: 1159 -3377 -3378 -3379 -3380 -3381 -3382 -3383 -3384 1160

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

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	29.35	1506.47	51.327
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	141.82	1506.47	10.622
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	33.86	1506.47	44.485

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ_{ϵ} sup	σ_{ϵ} inf	σ_c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	21.68	-13.58	57.50	2.41
0.00	4	SLE Q	1	0.00	3.08	3.08	18.69	-11.71	49.58	2.08
1.62	2	SLE R	5	18.06	3.08	3.08	103.15	-64.63	273.56	11.48
1.62	4	SLE Q	5	18.06	3.08	3.08	85.32	-53.46	226.29	9.50
3.25	2	SLE R	9	36.11	3.08	3.08	24.94	-15.63	66.15	2.78
3.25	4	SLE Q	9	36.11	3.08	3.08	21.65	-13.56	57.41	2.41

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ_{eq}	Δ_{sm}	A _s	A _{c eff}	σ_s	ϵ_{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	18.69	28.00	134.00	0.50	14.00	93.58	3.08	82.65	49.58	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	19.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.84	0.02	0.00
7	1.62	4	SLE Q	5	19	18.06	85.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	226.29	0.07	0.01
8	1.62	3	SLE F	5	19	18.06	90.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	239.78	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	21.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.41	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	22.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	59.91	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg θ	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	199.63	2.50	7185.75	7873.13	7185.75	35.995
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	78.99	2.50	7185.75	7873.13	7185.75	90.968
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	184.09	2.50	7185.75	7873.13	7185.75	39.033

Travata n. 12012

Nodi: 1197 1253 -4085 1237

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>	
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-1637.09	-13043.50	7.967

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ_{ϵ} sup	σ_{ϵ} inf	σ_c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.32	2	SLE R	3	52.50	6.16	3.08	-1174.11	343.42	-133.29	10.80
3.32	4	SLE Q	3	52.50	6.16	3.08	-759.05	222.02	-86.17	6.98

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ_{eq}	Δ_{sm}	A _s	A _{c eff}	σ_s	ϵ_{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-759.05	28.00	31.33	0.50	14.00	87.83	6.16	140.00	222.02	0.06	0.01
4	3.32	3	SLE F	3	16	52.50	-877.69	28.00	31.33	0.50	14.00	87.83	6.16	140.00	256.72	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctg θ	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	1350.89	2.50	7619.38	26714.30	7619.38	5.640
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1350.89	2.50	7619.38	26714.30	7619.38	5.640
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2469.14	2.50	15238.80	26714.30	15238.80	6.172

Travata n. 13001

Nodi: 1355 -4127 -4128 -4129 -4130 -4131 -4132 -4133 -4134 1356

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.
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Relazione di calcolo

<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	37.12	1506.47	40.587
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	162.76	1506.47	9.256
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	37.12	1506.47	40.580

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	27.27	-17.08	72.31	3.04
0.00	4	SLE Q	1	0.00	3.08	3.08	23.65	-14.82	62.73	2.63
1.44	2	SLE R	5	0.00	3.08	3.08	118.02	-73.95	313.01	13.14
1.44	4	SLE Q	5	0.00	3.08	3.08	97.88	-61.33	259.60	10.90
3.23	2	SLE R	9	35.89	3.08	3.08	27.18	-17.03	72.09	3.03
3.23	4	SLE Q	9	35.89	3.08	3.08	23.27	-14.58	61.73	2.59

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	23.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	62.73	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	24.69	28.00	134.00	0.50	14.00	93.58	3.08	82.65	65.47	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	97.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	259.60	0.08	0.01
8	1.44	3	SLE F	5	19	0.00	103.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	274.84	0.08	0.01
11	3.23	4	SLE Q	9	19	35.89	23.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.73	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	24.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	64.67	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	188.28	2.50	7185.75	7873.13	7185.75	38.165
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	80.80	2.50	7185.75	7873.13	7185.75	88.934
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	201.44	2.50	7185.75	7873.13	7185.75	35.672

Travata n. 13002

Nodi: 1373 -4445 -4446 -4447 -4448 -4449 -4450 -4451 -4452 1374

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	-121.23	-1506.47	12.426
1.79	1	SLU	5	35.89	3.08	3.08	3.08	3.08	96.40	1506.47	15.627
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-111.49	-1506.47	13.512

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-87.26	231.43	-54.68	9.71
0.00	4	SLE Q	1	0.00	3.08	3.08	-81.28	215.56	-50.93	9.05
1.79	2	SLE R	5	35.89	3.08	3.08	67.06	-42.01	177.84	7.46
1.79	4	SLE Q	5	35.89	3.08	3.08	57.97	-36.32	153.74	6.45
3.23	2	SLE R	9	35.89	3.08	3.08	-79.11	209.80	-49.57	8.81
3.23	4	SLE Q	9	35.89	3.08	3.08	-56.87	150.84	-35.64	6.33

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-81.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	215.56	0.06	0.01
4	0.00	3	SLE F	1	19	0.00	-83.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	220.28	0.06	0.01
7	1.79	4	SLE Q	5	19	35.89	57.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	153.74	0.04	0.01
8	1.79	3	SLE F	5	19	35.89	60.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	160.60	0.05	0.01
11	3.23	4	SLE Q	9	19	35.89	-56.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	150.84	0.04	0.01
12	3.23	3	SLE F	9	19	35.89	-63.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	167.64	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	635.87	2.50	7185.75	7873.13	7185.75	11.301
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	635.87	2.50	7185.75	7873.13	7185.75	11.301
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	290.14	2.50	7185.75	7873.13	7185.75	24.766

Travata n. 13011

Relazione di calcolo

Nodi: 1356 -4271 -4358 1373 -4566 1302

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	-630.84	-1506.47	2.388

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-464.03	1230.67	-290.75	51.66
1.90	4	SLE Q	5	35.43	3.08	3.08	-387.95	1028.91	-243.08	43.19

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.43	-387.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1028.91	0.32	0.05
4	1.90	3	SLE F	5	19	35.43	-409.69	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1086.55	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	674.70	2.50	7185.75	7873.13	7185.75	10.650
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	691.67	2.50	7185.75	7873.13	7185.75	10.389

Travata n. 13012

Nodi: 1385 -4763 1397 1337

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	-389.74	-2142.71	5.498

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-285.38	519.85	-139.41	18.34
4.82	4	SLE Q	3	332.00	3.08	3.08	-219.19	399.29	-107.08	14.09

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-219.19	28.00	114.00	0.50	14.00	102.12	3.08	101.43	399.29	0.12	0.02
4	4.82	3	SLE F	3	18	332.00	-238.08	28.00	114.00	0.50	14.00	102.12	3.08	101.43	433.69	0.13	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	2752.88	2.50	7619.38	26714.30	7619.38	2.768
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	418.29	2.50	5079.58	10017.90	5079.58	12.144
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	447.07	2.50	5079.58	10017.90	5079.58	11.362

Travata n. 13013

Nodi: 1357 -4272 -4359 1374 -4567 1303

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	-8319.87	-9551.64	1.148

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE	R	5	35.41	6.03	4.02	-6145.10	2405.04	-668.91	61.27
1.904	SLE	Q	5	35.41	6.03	4.02	-5584.65	2185.69	-607.90	55.69

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE	Q	5	30	35.41	-5584.65	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2185.69	0.90	0.19
4	1.903	SLE	F	5	30	35.41	-5744.78	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2248.36	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	4044.02	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	5520.01	2.50	10241.80	20904.00	10241.80	1.855

Travata n. 13016

Nodi: 1358 -4273 -4360 1375 -4568 1304

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	-8316.43	-9551.64	1.149

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE	R	5	35.43	6.03	4.02	-6142.31	2403.94	-668.60	61.25
1.904	SLE	Q	5	35.43	6.03	4.02	-5583.25	2185.14	-607.75	55.67

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE	Q	5	30	35.43	-5583.25	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2185.14	0.90	0.19
4	1.903	SLE	F	5	30	35.43	-5742.99	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2247.66	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	4055.60	2.50	10241.80	20904.00	10241.80	2.525
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5514.52	2.50	10241.80	20904.00	10241.80	1.857

Travata n. 13017

Nodi: 1388 -4767 1398 1338

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	-326.22	-2142.71	6.568

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE	R	3	332.00	3.08	3.08	-239.49	436.26	-117.00	15.39
4.824	SLE	Q	3	332.00	3.08	3.08	-182.50	332.45	-89.16	11.73

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE	Q	3	18	332.00	-182.50	28.00	114.00	0.50	14.00	102.12	3.08	101.43	332.45	0.10	0.02

Relazione di calcolo

4	4.82	3	SLE F	3	18	332.00	-198.82	28.00	114.00	0.50	14.00	102.12	3.08	101.43	362.18	0.11	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	1.50	1.50	ø6/32 2 br.	1.77	0.16	2406.34	2.50	7619.38	26714.30	7619.38	3.166
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	369.10	2.50	5079.58	10017.90	5079.58	13.762
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	397.88	2.50	5079.58	10017.90	5079.58	12.767

Travata n. 13018

Nodi: 1359 -4274 -4361 1376 -4569 1305

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	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-649.57	-1506.47	2.319

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
1.902	2	SLE R	5	35.44	3.08	3.08	-476.58	1263.96	-298.61	53.05
1.904	4	SLE Q	5	35.44	3.08	3.08	-400.79	1062.95	-251.12	44.62

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	1.904	4	SLE Q	5	19	35.44	-400.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1062.95	0.33	0.05
4	1.903	3	SLE F	5	19	35.44	-422.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1120.38	0.33	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	687.75	2.50	7185.75	7873.13	7185.75	10.448
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	704.72	2.50	7185.75	7873.13	7185.75	10.197

Travata n. 13019

Nodi: 1360 -4222 -4295 -4383 -4500 1306

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	1	SLU	5	38.00	3.08	3.08	3.08	3.08	-811.94	-1506.47	1.855

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
1.902	2	SLE R	5	38.00	3.08	3.08	-599.02	1588.68	-375.32	66.68
1.904	4	SLE Q	5	38.00	3.08	3.08	-501.74	1330.69	-314.38	55.85

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	1.904	4	SLE Q	5	19	38.00	-501.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1330.69	0.46	0.07
4	1.903	3	SLE F	5	19	38.00	-529.51	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1404.35	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	411.62	2.50	7185.75	7873.13	7185.75	17.457
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	428.58	2.50	7185.75	7873.13	7185.75	16.766

Travata n. 13044

Nodi: 1357 -4135 -4136 -4137 -4138 -4139 -4140 -4141 1358

Relazione di calcolo

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	-183.68	-1506.47	8.202
1.27	1	SLU	4	18.12	3.08	3.08	3.08	3.08	226.34	1506.47	6.656
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-182.96	-1506.47	8.234

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-139.49	369.96	-87.40	15.53
0.00	4	SLE Q	1	0.00	3.08	3.08	-130.97	347.36	-82.06	14.58
1.27	2	SLE R	4	18.12	3.08	3.08	170.47	-106.81	452.11	18.98
1.27	4	SLE Q	4	18.12	3.08	3.08	156.58	-98.11	415.27	17.43
2.90	2	SLE R	8	36.25	3.08	3.08	-139.03	368.73	-87.11	15.48
2.90	4	SLE Q	8	36.25	3.08	3.08	-130.40	345.85	-81.71	14.52

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-130.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	347.36	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-133.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	353.81	0.10	0.02
7	1.27	4	SLE Q	4	19	18.12	156.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	415.27	0.12	0.02
8	1.27	3	SLE F	4	19	18.12	160.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	425.81	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-130.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	345.85	0.10	0.02
12	2.90	3	SLE F	8	19	36.25	-132.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	352.38	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	877.18	2.50	7185.75	7873.13	7185.75	8.192
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	577.47	2.50	7185.75	7873.13	7185.75	12.444
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	875.07	2.50	7185.75	7873.13	7185.75	8.212

Travata n. 13045

Nodi: 1375 -4453 -4454 -4455 -4456 -4457 -4458 -4459 -4460 1376

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	-118.59	-1506.47	12.703
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	90.19	1506.47	16.703
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-155.82	-1506.47	9.668

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-84.09	223.03	-52.69	9.36
0.00	4	SLE Q	1	0.00	3.08	3.08	-61.05	161.91	-38.25	6.80
1.44	2	SLE R	5	0.00	3.08	3.08	62.63	-39.24	166.11	6.97
1.44	4	SLE Q	5	0.00	3.08	3.08	54.59	-34.20	144.78	6.08
3.25	2	SLE R	9	36.11	3.08	3.08	-111.95	296.90	-70.14	12.46
3.25	4	SLE Q	9	36.11	3.08	3.08	-100.88	267.54	-63.21	11.23

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-61.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	161.91	0.05	0.01
4	0.00	3	SLE F	1	19	0.00	-67.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	179.32	0.05	0.01
7	1.44	4	SLE Q	5	19	0.00	54.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	144.78	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	56.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	150.88	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	-100.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	267.54	0.08	0.01
12	3.25	3	SLE F	9	19	36.11	-104.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	275.96	0.08	0.01

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	281.09	2.50	7185.75	7873.13	7185.75	25.564
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	631.85	2.50	7185.75	7873.13	7185.75	11.373
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	631.85	2.50	7185.75	7873.13	7185.75	11.373

Travata n. 13060

Nodi: 1398 1254 -4087 1238

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.
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	-1723.26	-6639.53	3.853	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
3.322	SLE R	3	52.50	3.08	3.08	-1245.14	709.63	-164.96	14.52	
3.324	SLE Q	3	52.50	3.08	3.08	-801.21	456.62	-106.15	9.34	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	3.324	SLE Q	3	16	52.50	-801.21	28.00	94.00	0.50	14.00	119.66	3.08	140.00	456.62	0.13	0.03	
4	3.323	SLE F	3	16	52.50	-927.91	28.00	94.00	0.50	14.00	119.66	3.08	140.00	528.83	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	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1467.21	2.50	7619.38	26714.30	7619.38	5.193
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2226.40	2.50	7619.38	26714.30	7619.38	3.422
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2656.23	2.50	15238.80	26714.30	15238.80	5.737

Travata n. 13087

Nodi: 1359 -4142 -4143 -4144 -4145 -4146 -4147 -4148 -4149 1360

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	30.61	1506.47	49.213	
1.621	SLU	5	18.06	3.08	3.08	3.08	3.08	148.93	1506.47	10.115	
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	35.97	1506.47	41.876	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	22.59	-14.15	59.91	2.51	
0.004	SLE Q	1	0.00	3.08	3.08	19.34	-12.12	51.30	2.15	
1.622	SLE R	5	18.06	3.08	3.08	108.24	-67.82	287.08	12.05	
1.624	SLE Q	5	18.06	3.08	3.08	89.07	-55.81	236.22	9.91	
3.252	SLE R	9	36.11	3.08	3.08	26.45	-16.57	70.15	2.94	
3.254	SLE Q	9	36.11	3.08	3.08	22.78	-14.27	60.41	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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm ² >	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	19.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.30	0.01	0.00
4	0.003	SLE	F	1	19	0.00	20.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.75	0.02	0.00
7	1.624	SLE	Q	5	19	18.06	89.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	236.22	0.07	0.01
8	1.623	SLE	F	5	19	18.06	94.54	28.00	134.00	0.50	14.00	93.58	3.08	82.65	250.73	0.07	0.01
11	3.254	SLE	Q	9	19	36.11	22.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	60.41	0.02	0.00
12	3.253	SLE	F	9	19	36.11	23.82	28.00	134.00	0.50	14.00	93.58	3.08	82.65	63.19	0.02	0.00

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	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	199.79	2.50	7185.75	7873.13	7185.75	35.966
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	79.15	2.50	7185.75	7873.13	7185.75	90.786
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	185.92	2.50	7185.75	7873.13	7185.75	38.650

Travata n. 14012

Nodi: 1397 1453 -4850 1437

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	6.16	3.08	6.16	3.08	-1396.57	-13043.50	9.340	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
3.322	SLE R	3	52.50	6.16	3.08	-1005.87	294.21	-114.19	9.26	
3.324	SLE Q	3	52.50	6.16	3.08	-614.77	179.81	-69.79	5.66	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	3.324	SLE Q	3	16	52.50	-614.77	28.00	31.33	0.50	14.00	87.83	6.16	140.00	179.81	0.05	0.01	
4	3.323	SLE F	3	16	52.50	-726.65	28.00	31.33	0.50	14.00	87.83	6.16	140.00	212.54	0.06	0.01	

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	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1526.75	2.50	7619.38	26714.30	7619.38	4.991
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1526.75	2.50	7619.38	26714.30	7619.38	4.991
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2207.28	2.50	15238.80	26714.30	15238.80	6.904

Travata n. 15001

Nodi: 1555 -4892 -4893 -4894 -4895 -4896 -4897 -4898 -4899 1556

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	36.33	1506.47	41.469	
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	162.43	1506.47	9.274	
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	37.85	1506.47	39.800	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
0.002	SLE R	1	0.00	3.08	3.08	26.69	-16.73	70.80	2.97	
0.004	SLE Q	1	0.00	3.08	3.08	23.20	-14.53	61.52	2.58	
1.442	SLE R	5	0.00	3.08	3.08	117.77	-73.79	312.33	13.11	
1.444	SLE Q	5	0.00	3.08	3.08	97.59	-61.15	258.83	10.86	
3.232	SLE R	9	35.89	3.08	3.08	27.70	-17.35	73.46	3.08	
3.234	SLE Q	9	35.89	3.08	3.08	23.64	-14.81	62.70	2.63	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	23.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.52	0.02	0.00
4	0.003	SLE	F	1	19	0.00	24.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	64.18	0.02	0.00
7	1.444	SLE	Q	5	19	0.00	97.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	258.83	0.08	0.01
8	1.443	SLE	F	5	19	0.00	103.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	274.08	0.08	0.01
11	3.234	SLE	Q	9	19	35.89	23.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	62.70	0.02	0.00
12	3.233	SLE	F	9	19	35.89	24.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	65.75	0.02	0.00

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.
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Relazione di calcolo

1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	187.41	2.50	7185.75	7873.13	7185.75	38.343
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	81.99	2.50	7185.75	7873.13	7185.75	87.643
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	202.63	2.50	7185.75	7873.13	7185.75	35.462

Travata n. 15002

Nodi: 1573 -5210 -5211 -5212 -5213 -5214 -5215 -5216 -5217 1574

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	-110.89	-1506.47	13.585
1.79	1	SLU	5	35.89	3.08	3.08	3.08	3.08	97.80	1506.47	15.403
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-114.32	-1506.47	13.178

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-79.96	212.08	-50.10	8.90
0.00	4	SLE Q	1	0.00	3.08	3.08	-75.65	200.65	-47.40	8.42
1.79	2	SLE R	5	35.89	3.08	3.08	68.09	-42.66	180.59	7.58
1.79	4	SLE Q	5	35.89	3.08	3.08	58.71	-36.79	155.71	6.54
3.23	2	SLE R	9	35.89	3.08	3.08	-81.01	214.86	-50.76	9.02
3.23	4	SLE Q	9	35.89	3.08	3.08	-58.39	154.87	-36.59	6.50

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-75.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	200.65	0.06	0.01
4	0.00	3	SLE F	1	19	0.00	-76.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	204.14	0.06	0.01
7	1.79	4	SLE Q	5	19	35.89	58.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.71	0.05	0.01
8	1.79	3	SLE F	5	19	35.89	61.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	162.78	0.05	0.01
11	3.23	4	SLE Q	9	19	35.89	-58.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	154.87	0.05	0.01
12	3.23	3	SLE F	9	19	35.89	-64.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	171.95	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	647.18	2.50	7185.75	7873.13	7185.75	11.103
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	647.18	2.50	7185.75	7873.13	7185.75	11.103
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	281.30	2.50	7185.75	7873.13	7185.75	25.545

Travata n. 15011

Nodi: 1556 -5036 -5123 1573 -5331 1502

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	-630.35	-1506.47	2.390

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-463.61	1229.56	-290.48	51.61
1.90	4	SLE Q	5	35.43	3.08	3.08	-387.58	1027.93	-242.85	43.15

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.43	-387.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1027.93	0.32	0.05
4	1.90	3	SLE F	5	19	35.43	-409.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1085.53	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	675.00	2.50	7185.75	7873.13	7185.75	10.646

Relazione di calcolo

1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	691.97	2.50	7185.75	7873.13	7185.75	10.385
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Travata n. 15012

Nodi: 1585 -5529 1597 1537

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.
4.821	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-342.22	-2142.71	6.261

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
4.822	2	SLE R	3	332.00	3.08	3.08	-251.97	459.00	-123.09	16.20
4.824	4	SLE Q	3	332.00	3.08	3.08	-190.70	347.38	-93.16	12.26

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	4.824	SLE Q	3	18	332.00	-190.70	28.00	114.00	0.50	14.00	102.12	3.08	101.43	347.38	0.10	0.02	
4	4.823	SLE F	3	18	332.00	-208.19	28.00	114.00	0.50	14.00	102.12	3.08	101.43	379.25	0.11	0.02	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <cm>	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	2898.45	2.50	7619.38	26714.30	7619.38	2.629
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	394.06	2.50	5079.58	10017.90	5079.58	12.890
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	422.84	2.50	5079.58	10017.90	5079.58	12.013

Travata n. 15013

Nodi: 1557 -5037 -5124 1574 -5332 1503

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 <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	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-8333.27	-9551.64	1.146

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.902	2	SLE R	5	35.41	6.03	4.02	-6155.11	2408.95	-670.00	61.37
1.904	4	SLE Q	5	35.41	6.03	4.02	-5595.04	2189.76	-609.03	55.79

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE	Q	5	30	35.41	-5595.04	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2189.76	0.90	0.19
4	1.903	SLE	F	5	30	35.41	-5755.07	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2252.39	0.85	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <cm>	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	4058.53	2.50	10241.80	20904.00	10241.80	2.524
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5541.11	2.50	10241.80	20904.00	10241.80	1.848

Travata n. 15016

Nodi: 1558 -5038 -5125 1575 -5333 1504

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

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>	
1.901	1	SLU	5	35.43	6.03	4.02	6.03	4.02	-8332.51	-9551.64	1.146

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	2	SLE R	5	35.43	6.03	4.02	-6153.90	2408.48	-669.86	61.36
1.904	4	SLE Q	5	35.43	6.03	4.02	-5595.52	2189.94	-609.08	55.79

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	30	35.43	-5595.52	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2189.94	0.90	0.19	
4	1.903	SLE F	5	30	35.43	-5755.07	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2252.39	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	4066.54	2.50	10241.80	20904.00	10241.80	2.519
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5530.87	2.50	10241.80	20904.00	10241.80	1.852

Travata n. 15017

Nodi: 1588 -5533 1598 1538

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	-317.14	-2142.71	6.756

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	2	SLE R	3	332.00	3.08	3.08	-232.96	424.36	-113.81	14.97
4.824	4	SLE Q	3	332.00	3.08	3.08	-176.86	322.17	-86.40	11.37

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q	3	18	332.00	-176.86	28.00	114.00	0.50	14.00	102.12	3.08	101.43	322.17	0.09	0.02	
4	4.823	SLE F	3	18	332.00	-192.94	28.00	114.00	0.50	14.00	102.12	3.08	101.43	351.47	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	2718.12	2.50	7619.38	26714.30	7619.38	2.803
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	369.07	2.50	5079.58	10017.90	5079.58	13.763
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	397.86	2.50	5079.58	10017.90	5079.58	12.767

Travata n. 15018

Nodi: 1559 -5039 -5126 1576 -5334 1505

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	35.44	3.08	3.08	3.08	3.08	-649.07	-1506.47	2.321

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	2	SLE R	5	35.44	3.08	3.08	-476.18	1262.89	-298.36	53.01

Relazione di calcolo

1.90	4	SLE Q	5	35.44	3.08	3.08	-400.35	1061.78	-250.85	44.57
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Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.44	-400.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1061.78	0.33	0.05
4	1.90	3	SLE F	5	19	35.44	-422.01	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1119.23	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	687.73	2.50	7185.75	7873.13	7185.75	10.448
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	704.70	2.50	7185.75	7873.13	7185.75	10.197

Travata n. 15019

Nodi: 1560 -4992 -5060 -5148 -5262 1506

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	38.00	3.08	3.08	3.08	3.08	-811.55	-1506.47	1.856

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _r sup	σ _r inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	38.00	3.08	3.08	-598.66	1587.72	-375.10	66.64
1.90	4	SLE Q	5	38.00	3.08	3.08	-501.31	1329.54	-314.10	55.81

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	38.00	-501.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1329.54	0.46	0.07
4	1.90	3	SLE F	5	19	38.00	-529.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1403.25	0.41	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	410.20	2.50	7185.75	7873.13	7185.75	17.518
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	427.17	2.50	7185.75	7873.13	7185.75	16.822

Travata n. 15044

Nodi: 1557 -4900 -4901 -4902 -4903 -4904 -4905 -4906 1558

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	-183.78	-1506.47	8.197
1.27	1	SLU	4	18.12	3.08	3.08	3.08	3.08	225.51	1506.47	6.680
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-183.79	-1506.47	8.197

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _r sup	σ _r inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-139.58	370.19	-87.46	15.54
0.00	4	SLE Q	1	0.00	3.08	3.08	-130.96	347.32	-82.05	14.58
1.27	2	SLE R	4	18.12	3.08	3.08	169.88	-106.44	450.55	18.91
1.27	4	SLE Q	4	18.12	3.08	3.08	156.16	-97.85	414.17	17.38
2.90	2	SLE R	8	36.25	3.08	3.08	-139.59	370.23	-87.47	15.54
2.90	4	SLE Q	8	36.25	3.08	3.08	-130.86	347.07	-82.00	14.57

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-130.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	347.32	0.10	0.02

Relazione di calcolo

4	0.00	3	SLE F	1	19	0.00	-133.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	353.84	0.10	0.02
7	1.27	4	SLE Q	4	19	18.12	156.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	414.17	0.12	0.02
8	1.27	3	SLE F	4	19	18.12	160.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	424.59	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-130.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	347.07	0.10	0.02
12	2.90	3	SLE F	8	19	36.25	-133.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	353.67	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	876.39	2.50	7185.75	7873.13	7185.75	8.199
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	576.67	2.50	7185.75	7873.13	7185.75	12.461
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	875.49	2.50	7185.75	7873.13	7185.75	8.208

Travata n. 15045

Nodi: 1575 -5218 -5219 -5220 -5221 -5222 -5223 -5224 -5225 1576

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	-120.51	-1506.47	12.501
1.441	SLU	5		0.00	3.08	3.08	3.08	3.08	90.63	1506.47	16.622
3.251	SLU	9		36.11	3.08	3.08	3.08	3.08	-151.63	-1506.47	9.935

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
0.002	SLE R	1		0.00	3.08	3.08	-85.41	226.52	-53.52	9.51
0.004	SLE Q	1		0.00	3.08	3.08	-61.92	164.22	-38.80	6.89
1.442	SLE R	5		0.00	3.08	3.08	62.96	-39.45	166.98	7.01
1.444	SLE Q	5		0.00	3.08	3.08	54.80	-34.33	145.33	6.10
3.252	SLE R	9		36.11	3.08	3.08	-109.00	289.07	-68.29	12.13
3.254	SLE Q	9		36.11	3.08	3.08	-98.80	262.04	-61.91	11.00

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-61.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	164.22	0.05	0.01
4	0.003	SLE	F	1	19	0.00	-68.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	181.96	0.05	0.01
7	1.444	SLE	Q	5	19	0.00	54.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	145.33	0.04	0.01
8	1.443	SLE	F	5	19	0.00	57.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	151.52	0.04	0.01
11	3.254	SLE	Q	9	19	36.11	-98.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	262.04	0.08	0.01
12	3.253	SLE	F	9	19	36.11	-101.73	28.00	134.00	0.50	14.00	93.58	3.08	82.65	269.81	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	276.26	2.50	7185.75	7873.13	7185.75	26.011
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	637.11	2.50	7185.75	7873.13	7185.75	11.279
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	637.11	2.50	7185.75	7873.13	7185.75	11.279

Travata n. 15060

Nodi: 1598 1454 -4852 1438

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.
3.321	SLU	3		52.50	3.08	3.08	3.08	3.08	-1316.84	-6639.53	5.042

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
3.322	SLE R	3		52.50	3.08	3.08	-958.37	546.19	-126.97	11.17
3.324	SLE Q	3		52.50	3.08	3.08	-559.23	318.71	-74.09	6.52

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	3.32	4	SLE Q	3	16	52.50	-559.23	28.00	94.00	0.50	14.00	119.66	3.08	140.00	318.71	0.09	0.02
4	3.32	3	SLE F	3	16	52.50	-673.25	28.00	94.00	0.50	14.00	119.66	3.08	140.00	383.70	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	1739.36	2.50	7619.38	26714.30	7619.38	4.381
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2498.55	2.50	7619.38	26714.30	7619.38	3.050
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2216.33	2.50	15238.80	26714.30	15238.80	6.876

Travata n. 15087

Nodi: 1559 -4907 -4908 -4909 -4910 -4911 -4912 -4913 -4914 1560

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	31.08	1506.47	48.465
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	150.17	1506.47	10.032
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	36.12	1506.47	41.712

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	22.92	-14.36	60.79	2.55
0.00	4	SLE Q	1	0.00	3.08	3.08	19.59	-12.27	51.95	2.18
1.62	2	SLE R	5	18.06	3.08	3.08	109.11	-68.36	289.37	12.15
1.62	4	SLE Q	5	18.06	3.08	3.08	89.77	-56.25	238.09	9.99
3.25	2	SLE R	9	36.11	3.08	3.08	26.55	-16.63	70.41	2.96
3.25	4	SLE Q	9	36.11	3.08	3.08	22.87	-14.33	60.66	2.55

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	19.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.95	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	20.54	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.48	0.02	0.00
7	1.62	4	SLE Q	5	19	18.06	89.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	238.09	0.07	0.01
8	1.62	3	SLE F	5	19	18.06	95.29	28.00	134.00	0.50	14.00	93.58	3.08	82.65	252.72	0.07	0.01
11	3.25	4	SLE Q	9	19	36.11	22.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	60.66	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	23.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	63.44	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	200.31	2.50	7185.75	7873.13	7185.75	35.872
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	79.67	2.50	7185.75	7873.13	7185.75	90.190
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	185.93	2.50	7185.75	7873.13	7185.75	38.648

Travata n. 16012

Nodi: 1597 1653 -5616 1637

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	-1277.53	-13043.50	10.210

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
3.32	2	SLE R	3	52.50	6.16	3.08	-921.02	269.39	-104.56	8.48
3.32	4	SLE Q	3	52.50	6.16	3.08	-539.76	157.88	-61.28	4.97

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
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Relazione di calcolo

	<m>				<cm>	<daNm>	<mm>	<mm>		<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>		
3	3.32	4	SLE Q	3	16	52.50	-539.76	28.00	31.33	0.50	14.00	87.83	6.16	140.00	157.88	0.05	0.01
4	3.32	3	SLE F	3	16	52.50	-648.87	28.00	31.33	0.50	14.00	87.83	6.16	140.00	189.79	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>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1691.36	2.50	7619.38	26714.30	7619.38	4.505
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1691.36	2.50	7619.38	26714.30	7619.38	4.505
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2043.02	2.50	15238.80	26714.30	15238.80	7.459

Travata n. 17001

Nodi: 1755 -5658 -5659 -5660 -5661 -5662 -5663 -5664 -5665 1756

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	34.55	1506.47	43.601
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	159.48	1506.47	9.446
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	38.40	1506.47	39.227

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	25.44	-15.94	67.47	2.83	
0.004	SLE Q	1	0.00	3.08	3.08	22.19	-13.90	58.85	2.47	
1.442	SLE R	5	0.00	3.08	3.08	115.65	-72.46	306.72	12.87	
1.444	SLE Q	5	0.00	3.08	3.08	96.00	-60.15	254.60	10.69	
3.232	SLE R	9	35.89	3.08	3.08	28.07	-17.59	74.44	3.12	
3.234	SLE Q	9	35.89	3.08	3.08	24.00	-15.03	63.64	2.67	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	22.19	28.00	134.00	0.50	14.00	93.58	3.08	82.65	58.85	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	23.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.34	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	96.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	254.60	0.07	0.01
8	1.44	3	SLE F	5	19	0.00	101.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	269.50	0.08	0.01
11	3.23	4	SLE Q	9	19	35.89	24.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	63.64	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	25.15	28.00	134.00	0.50	14.00	93.58	3.08	82.65	66.70	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	186.56	2.50	7185.75	7873.13	7185.75	38.517
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	81.98	2.50	7185.75	7873.13	7185.75	87.655
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	202.62	2.50	7185.75	7873.13	7185.75	35.464

Travata n. 17002

Nodi: 1773 -5976 -5977 -5978 -5979 -5980 -5981 -5982 -5983 1774

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	-104.03	-1506.47	14.482
1.791	SLU	5	35.89	3.08	3.08	3.08	3.08	3.08	102.72	1506.47	14.666
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	-109.90	-1506.47	13.708

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _ε sup	σ _ε inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	3.08	-75.25	199.56	-47.15	8.38
0.004	SLE Q	1	0.00	3.08	3.08	3.08	-72.59	192.52	-45.48	8.08
1.792	SLE R	5	35.89	3.08	3.08	3.08	71.60	-44.86	189.90	7.97
1.794	SLE Q	5	35.89	3.08	3.08	3.08	62.01	-38.86	164.47	6.90
3.232	SLE R	9	35.89	3.08	3.08	3.08	-77.75	206.19	-48.71	8.65

Relazione di calcolo

3.23	4	SLE Q	9	35.89	3.08	3.08	-54.36	144.17	-34.06	6.05
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Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
4	0.00	4	SLE Q	1	19	0.00	-72.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	192.52	0.06	0.01
5	0.00	3	SLE F	1	19	0.00	-73.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	194.88	0.06	0.01
8	1.79	4	SLE Q	5	19	35.89	62.01	28.00	134.00	0.50	14.00	93.58	3.08	82.65	164.47	0.05	0.01
9	1.79	3	SLE F	5	19	35.89	64.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	171.70	0.05	0.01
12	3.23	4	SLE Q	9	19	35.89	-54.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	144.17	0.04	0.01
13	3.23	3	SLE F	9	19	35.89	-61.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	161.78	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	635.12	2.50	7185.75	7873.13	7185.75	11.314
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	635.12	2.50	7185.75	7873.13	7185.75	11.314
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	301.75	2.50	7185.75	7873.13	7185.75	23.814

Travata n. 17011

Nodi: 1756 -5802 -5889 1773 -6097 1702

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	35.43	3.08	3.08	3.08	3.08	-633.42	-1506.47	2.378

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-466.14	1236.26	-292.07	51.89
1.90	4	SLE Q	5	35.43	3.08	3.08	-389.65	1033.41	-244.14	43.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.43	-389.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1033.41	0.32	0.05
4	1.90	3	SLE F	5	19	35.43	-411.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1091.37	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	682.35	2.50	7185.75	7873.13	7185.75	10.531
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	699.31	2.50	7185.75	7873.13	7185.75	10.275

Travata n. 17012

Nodi: 1785 -6294 1797 1737

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	-313.18	-2142.71	6.842

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-231.46	421.62	-113.07	14.88
4.82	4	SLE Q	3	332.00	3.08	3.08	-172.78	314.73	-84.40	11.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-172.78	28.00	114.00	0.50	14.00	102.12	3.08	101.43	314.73	0.09	0.02

Relazione di calcolo

4	4.82	3	SLE F	3	18	332.00	-189.52	28.00	114.00	0.50	14.00	102.12	3.08	101.43	345.23	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	1.50	1.50	ø6/32 2 br.	1.77	0.16	2779.63	2.50	7619.38	26714.30	7619.38	2.741
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	376.66	2.50	5079.58	10017.90	5079.58	13.486
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	405.44	2.50	5079.58	10017.90	5079.58	12.528

Travata n. 17013

Nodi: 1757 -5803 -5890 1774 -6098 1703

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	35.41	6.03	4.02	6.03	4.02	-8297.21	-9551.64	1.151	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cm q>	σ _f inf <daN/cm q>	σ _c <daN/cm q>
1.902	SLE R	5	35.41	6.03	4.02	-6128.85	2398.68	-667.14	61.11	
1.904	SLE Q	5	35.41	6.03	4.02	-5566.70	2178.67	-605.95	55.51	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	30	35.41	-5566.70	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2178.67	0.90	0.19	
4	1.903	SLE F	5	30	35.41	-5727.30	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2241.52	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	4024.02	2.50	10241.80	20904.00	10241.80	2.545
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5482.45	2.50	10241.80	20904.00	10241.80	1.868

Travata n. 17016

Nodi: 1758 -5804 -5891 1775 -6099 1704

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	35.43	6.03	4.02	6.03	4.02	-8283.03	-9551.64	1.153	

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.902	SLE	R	5	35.43	6.03	4.02	-6118.14	2394.49	-665.97	61.01
1.904	SLE	Q	5	35.43	6.03	4.02	-5559.15	2175.71	-605.12	55.43

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	30	35.43	-5559.15	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2175.71	0.90	0.19	
4	1.903	SLE F	5	30	35.43	-5718.90	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2238.23	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	4034.66	2.50	10241.80	20904.00	10241.80	2.538
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5476.79	2.50	10241.80	20904.00	10241.80	1.870

Travata n. 17017

Nodi: 1788 -6298 1798 1738

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	-312.49	-2142.71	6.857

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _r sup	σ _r inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-228.00	415.33	-111.38	14.65
4.82	4	SLE Q	3	332.00	3.08	3.08	-171.01	311.52	-83.54	10.99

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-171.01	28.00	114.00	0.50	14.00	102.12	3.08	101.43	311.52	0.09	0.02
4	4.82	3	SLE F	3	18	332.00	-187.16	28.00	114.00	0.50	14.00	102.12	3.08	101.43	340.94	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	2938.25	2.50	7619.38	26714.30	7619.38	2.593
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	369.88	2.50	5079.58	10017.90	5079.58	13.733
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	398.66	2.50	5079.58	10017.90	5079.58	12.742

Travata n. 17018

Nodi: 1759 -5805 -5892 1776 -6100 1705

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	-657.43	-1506.47	2.291

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _r sup	σ _r inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.44	3.08	3.08	-482.35	1279.25	-302.22	53.69
1.90	4	SLE Q	5	35.44	3.08	3.08	-405.75	1076.11	-254.23	45.17

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.44	-405.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1076.11	0.34	0.05
4	1.90	3	SLE F	5	19	35.44	-427.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1134.12	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	698.75	2.50	7185.75	7873.13	7185.75	10.284
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	715.72	2.50	7185.75	7873.13	7185.75	10.040

Travata n. 17019

Nodi: 1760 -5748 -5826 -5914 -6028 1706

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	38.00	3.08	3.08	3.08	3.08	-809.89	-1506.47	1.860

Relazione di calcolo

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _e sup	σ _e inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	38.00	3.08	3.08	-597.24	1583.97	-374.21	66.48
1.90	4	SLE Q	5	38.00	3.08	3.08	-500.37	1327.06	-313.52	55.70

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	38.00	-500.37	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1327.06	0.46	0.07
4	1.90	3	SLE F	5	19	38.00	-527.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1400.27	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>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	416.26	2.50	7185.75	7873.13	7185.75	17.263
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	433.22	2.50	7185.75	7873.13	7185.75	16.587

Travata n. 17044

Nodi: 1757 -5666 -5667 -5668 -5669 -5670 -5671 -5672 1758

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	-184.61	-1506.47	8.160
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	226.16	1506.47	6.661
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-182.30	-1506.47	8.264

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _e sup	σ _e inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-140.13	371.66	-87.80	15.60
0.00	4	SLE Q	1	0.00	3.08	3.08	-131.39	348.48	-82.33	14.63
1.45	2	SLE R	5	0.00	3.08	3.08	170.38	-106.75	451.88	18.97
1.45	4	SLE Q	5	0.00	3.08	3.08	156.72	-98.20	415.65	17.45
2.90	2	SLE R	8	36.25	3.08	3.08	-138.53	367.41	-86.80	15.42
2.90	4	SLE Q	8	36.25	3.08	3.08	-129.87	344.43	-81.37	14.46

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-131.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	348.48	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-133.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	355.09	0.10	0.02
7	1.45	4	SLE Q	5	19	0.00	156.72	28.00	134.00	0.50	14.00	93.58	3.08	82.65	415.65	0.12	0.02
8	1.45	3	SLE F	5	19	0.00	160.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	426.01	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-129.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	344.43	0.10	0.02
12	2.90	3	SLE F	8	19	36.25	-132.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	351.00	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	878.18	2.50	7185.75	7873.13	7185.75	8.182
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	578.47	2.50	7185.75	7873.13	7185.75	12.422
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	874.32	2.50	7185.75	7873.13	7185.75	8.219

Travata n. 17045

Nodi: 1775 -5984 -5985 -5986 -5987 -5988 -5989 -5990 -5991 1776

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	-117.23	-1506.47	12.850
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	91.88	1506.47	16.395
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-151.96	-1506.47	9.914

Relazione di calcolo

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	-82.92	219.91	-51.95	9.23
0.004	SLE	Q	1	0.00	3.08	3.08	-58.80	155.95	-36.84	6.55
1.442	SLE	R	5	0.00	3.08	3.08	63.91	-40.05	169.50	7.11
1.444	SLE	Q	5	0.00	3.08	3.08	56.03	-35.11	148.59	6.24
3.252	SLE	R	9	36.11	3.08	3.08	-109.34	289.98	-68.51	12.17
3.254	SLE	Q	9	36.11	3.08	3.08	-99.59	264.12	-62.40	11.09

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-58.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.95	0.05	0.01
4	0.003	SLE	F	1	19	0.00	-65.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	174.14	0.05	0.01
7	1.444	SLE	Q	5	19	0.00	56.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	148.59	0.04	0.01
8	1.443	SLE	F	5	19	0.00	58.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	154.62	0.05	0.01
11	3.254	SLE	Q	9	19	36.11	-99.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	264.12	0.08	0.01
12	3.253	SLE	F	9	19	36.11	-102.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	271.55	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	288.79	2.50	7185.75	7873.13	7185.75	24.882
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	635.66	2.50	7185.75	7873.13	7185.75	11.304
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	635.66	2.50	7185.75	7873.13	7185.75	11.304

Travata n. 17060

Nodi: 1798 1654 -5618 1638

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.
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	3.08	-1006.35	-6639.53	6.598

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
3.322	SLE	R	3	52.50	3.08	3.08	-737.54	420.33	-97.71	8.60
3.324	SLE	Q	3	52.50	3.08	3.08	-372.16	212.10	-49.31	4.34

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	3.324	SLE	Q	3	16	52.50	-372.16	28.00	94.00	0.50	14.00	119.66	3.08	140.00	212.10	0.06	0.01
5	3.323	SLE	F	3	16	52.50	-476.99	28.00	94.00	0.50	14.00	119.66	3.08	140.00	271.85	0.08	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	1912.52	2.50	7619.38	26714.30	7619.38	3.984
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2671.71	2.50	7619.38	26714.30	7619.38	2.852
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	1877.62	2.50	15238.80	26714.30	15238.80	8.116

Travata n. 17087

Nodi: 1759 -5673 -5674 -5675 -5676 -5677 -5678 -5679 -5680 1760

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	31.25	1506.47	48.211
1.621	SLU	5	18.06	3.08	3.08	3.08	3.08	3.08	151.61	1506.47	9.936
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	36.61	1506.47	41.153

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_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	23.03	-14.43	61.07	2.56
0.00	4	SLE Q	1	0.00	3.08	3.08	19.67	-12.32	52.16	2.19
1.62	2	SLE R	5	18.06	3.08	3.08	110.11	-68.99	292.02	12.26
1.62	4	SLE Q	5	18.06	3.08	3.08	90.41	-56.65	239.78	10.06
3.25	2	SLE R	9	36.11	3.08	3.08	26.89	-16.85	71.32	2.99
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 ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	19.67	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.16	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	20.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.69	0.02	0.00
7	1.62	4	SLE Q	5	19	18.06	90.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	239.78	0.07	0.01
8	1.62	3	SLE F	5	19	18.06	96.01	28.00	134.00	0.50	14.00	93.58	3.08	82.65	254.63	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	24.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	64.09	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	200.71	2.50	7185.75	7873.13	7185.75	35.802
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	80.07	2.50	7185.75	7873.13	7185.75	89.747
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	185.92	2.50	7185.75	7873.13	7185.75	38.650

Travata n. 18009

Nodi: -6390 1838

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>
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 <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.25	1	SLU	1	125.00	4.02	4.02	4.02	4.02	210.25	2704.33	12.862

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
1.25	2	SLE R	1	125.00	4.02	4.02	145.33	-44.64	200.64	6.34
1.25	4	SLE Q	1	125.00	4.02	4.02	122.51	-37.63	169.14	5.35

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
3	1.25	4	SLE Q	1	26	125.00	122.51	27.00	232.00	0.50	16.00	130.55	4.02	174.06	169.14	0.05	0.01
4	1.25	3	SLE F	1	26	125.00	128.57	27.00	232.00	0.50	16.00	130.55	4.02	174.06	177.50	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	1.03	1.03	ø6/14 2 br.	4.04	0.30	557.33	2.50	5805.24	9215.72	5805.24	10.416
1 SLU	1.03	1.25	0.22	ø6/14 2 br.	4.04	0.30	578.92	2.50	5805.24	9215.72	5805.24	10.028

Travata n. 18012

Nodi: 1797 1853 -6381 1837

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	6.16	3.08	6.16	3.08	-1487.40	-13043.50	8.769

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
3.32	2	SLE R	3	52.50	6.16	3.08	-1056.94	309.15	-119.99	9.73
3.32	4	SLE Q	3	52.50	6.16	3.08	-663.82	194.16	-75.36	6.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.32	4	SLE Q	3	16	52.50	-663.82	28.00	31.33	0.50	14.00	87.83	6.16	140.00	194.16	0.06	0.01
4	3.32	3	SLE F	3	16	52.50	-775.90	28.00	31.33	0.50	14.00	87.83	6.16	140.00	226.95	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	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1480.53	2.50	7619.38	26714.30	7619.38	5.146
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1480.53	2.50	7619.38	26714.30	7619.38	5.146
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2312.09	2.50	15238.80	26714.30	15238.80	6.591

Travata n. 19001

Nodi: 1955 -6423 -6424 -6425 -6426 -6427 -6428 -6429 -6430 1956

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	44.53	1506.47	33.828
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	183.84	1506.47	8.194
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	39.48	1506.47	38.156

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _ε sup	σ _ε inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	32.49	-20.36	86.16	3.62
0.00	4	SLE Q	1	0.00	3.08	3.08	27.37	-17.15	72.59	3.05
1.44	2	SLE R	5	0.00	3.08	3.08	133.07	-83.38	352.92	14.81
1.44	4	SLE Q	5	0.00	3.08	3.08	107.43	-67.31	284.92	11.96
3.23	2	SLE R	9	35.89	3.08	3.08	28.95	-18.14	76.79	3.22
3.23	4	SLE Q	9	35.89	3.08	3.08	24.21	-15.17	64.20	2.69

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	27.37	28.00	134.00	0.50	14.00	93.58	3.08	82.65	72.59	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	28.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	76.29	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	107.43	28.00	134.00	0.50	14.00	93.58	3.08	82.65	284.92	0.08	0.01
8	1.44	3	SLE F	5	19	0.00	114.51	28.00	134.00	0.50	14.00	93.58	3.08	82.65	303.69	0.09	0.01
11	3.23	4	SLE Q	9	19	35.89	24.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	64.20	0.02	0.00
12	3.23	3	SLE F	9	19	35.89	25.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	67.72	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	190.80	2.50	7185.75	7873.13	7185.75	37.662
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	86.45	2.50	7185.75	7873.13	7185.75	83.123
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	207.09	2.50	7185.75	7873.13	7185.75	34.699

Travata n. 19002

Nodi: 1973 -6741 -6742 -6743 -6744 -6745 -6746 -6747 -6748 1974

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	-98.97	-1506.47	15.221
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	107.97	1506.47	13.953
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-139.09	-1506.47	10.831

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _ε sup	σ _ε inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-71.09	188.55	-44.55	7.91

Relazione di calcolo

0.004	SLE Q	1	0.00	3.08	3.08	-61.17	162.25	-38.33	6.81
1.442	SLE R	5	0.00	3.08	3.08	75.37	-47.22	199.89	8.39
1.444	SLE Q	5	0.00	3.08	3.08	58.14	-36.43	154.20	6.47
3.232	SLE R	9	35.89	3.08	3.08	-97.03	257.33	-60.79	10.80
3.234	SLE Q	9	35.89	3.08	3.08	-71.54	189.73	-44.82	7.96

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
5	0.004	SLE Q	1	19	19	0.00	-61.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	162.25	0.05	0.01
7	0.003	SLE F	1	19	19	0.00	-63.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	168.81	0.05	0.01
11	1.444	SLE Q	5	19	19	0.00	58.14	28.00	134.00	0.50	14.00	93.58	3.08	82.65	154.20	0.04	0.01
12	1.443	SLE F	5	19	19	0.00	62.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	166.15	0.05	0.01
15	3.234	SLE Q	9	19	19	35.89	-71.54	28.00	134.00	0.50	14.00	93.58	3.08	82.65	189.73	0.06	0.01
16	3.233	SLE F	9	19	19	35.89	-78.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	208.19	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>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	729.46	2.50	7185.75	7873.13	7185.75	9.851
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	729.46	2.50	7185.75	7873.13	7185.75	9.851
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	19.20	2.50	7185.75	7873.13	7185.75	>100

Travata n. 19011

Nodi: 1956 -6567 -6654 1973 -6862 1902

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.
1.901	SLU	5	35.43	3.08	3.08	3.08	3.08	3.08	-623.14	-1506.47	2.418

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.902	SLE R	5	35.43	3.08	3.08	3.08	-456.46	1210.60	-286.00	50.81
1.904	SLE Q	5	35.43	3.08	3.08	3.08	-378.26	1003.21	-237.01	42.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	19	19	35.43	-378.26	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1003.21	0.30	0.05
4	1.903	SLE F	5	19	19	35.43	-400.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1061.82	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	659.66	2.50	7185.75	7873.13	7185.75	10.893
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	676.62	2.50	7185.75	7873.13	7185.75	10.620

Travata n. 19012

Nodi: 1985 -7059 1997 1937

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 <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-116.64	-2142.71	18.369

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
4.822	SLE R	3	332.00	3.08	3.08	3.08	-97.81	178.18	-47.78	6.29
4.824	SLE Q	3	332.00	3.08	3.08	3.08	-65.82	119.89	-32.15	4.23

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	4.82	4	SLE Q	3	18	332.00	-65.82	28.00	114.00	0.50	14.00	102.12	3.08	101.43	119.89	0.03	0.01
4	4.82	3	SLE F	3	18	332.00	-74.66	28.00	114.00	0.50	14.00	102.12	3.08	101.43	136.00	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	1.50	1.50	ø6/32 2 br.	1.77	0.16	467.98	2.50	7619.38	26714.30	7619.38	16.281
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	282.35	2.50	5079.58	10017.90	5079.58	17.991
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	311.13	2.50	5079.58	10017.90	5079.58	16.326

Travata n. 19013

Nodi: 1957 -6568 -6655 1974 -6863 1903

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 <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	35.41	4.02	4.02	4.02	4.02	4.02	-5221.66	-6450.78	1.235

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.902	SLE R	5	35.41	4.02	4.02	4.02	-3855.58	2232.78	-450.37	44.58
1.904	SLE Q	5	35.41	4.02	4.02	4.02	-3287.75	1903.95	-384.04	38.02

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	30	35.41	-3287.75	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1903.95	0.70	0.35	
4	1.903	SLE F	5	30	35.41	-3449.15	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1997.42	0.63	0.31	

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	2809.88	2.50	10241.80	20904.00	10241.80	3.645
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3882.89	2.50	10241.80	20904.00	10241.80	2.638

Travata n. 19016

Nodi: 1958 -6569 -6656 1975 -6864 1904

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 <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	35.43	4.02	4.02	4.02	4.02	4.02	-5218.92	-6450.78	1.236

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.902	SLE R	5	35.43	4.02	4.02	4.02	-3852.74	2231.14	-450.04	44.55
1.904	SLE Q	5	35.43	4.02	4.02	4.02	-3286.55	1903.26	-383.90	38.00

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	30	35.43	-3286.55	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1903.26	0.70	0.35	
4	1.903	SLE F	5	30	35.43	-3447.48	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1996.45	0.63	0.31	

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	2800.75	2.50	10241.80	20904.00	10241.80	3.657
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3847.77	2.50	10241.80	20904.00	10241.80	2.662

Travata n. 19017

Nodi: 1988 -7063 1998 1938

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.
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-456.61	-2142.71	4.693

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ_f sup <daN/cm>	σ_f inf <daN/cm>	σ_c <daN/cm>
4.822	SLE R	3	332.00	3.08	3.08	-329.30	599.86	-160.87	21.17	
4.824	SLE Q	3	332.00	3.08	3.08	-263.03	479.13	-128.49	16.91	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	4.824	SLE	Q	3	18	332.00	-263.03	28.00	114.00	0.50	14.00	102.12	3.08	101.43	479.13	0.14	0.02
4	4.823	SLE	F	3	18	332.00	-282.05	28.00	114.00	0.50	14.00	102.12	3.08	101.43	513.79	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	2682.06	2.50	7619.38	26714.30	7619.38	2.841
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	445.46	2.50	5079.58	10017.90	5079.58	11.403
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	474.24	2.50	5079.58	10017.90	5079.58	10.711

Travata n. 19018

Nodi: 1959 -6570 -6657 1976 -6865 1905

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	35.44	3.08	3.08	3.08	3.08	3.08	-610.34	-1506.47	2.468

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ_f sup <daN/cm>	σ_f inf <daN/cm>	σ_c <daN/cm>
1.902	SLE R	5	35.44	3.08	3.08	-447.64	1187.20	-280.48	49.83	
1.904	SLE Q	5	35.44	3.08	3.08	-371.36	984.90	-232.68	41.34	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	19	35.44	-371.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	984.90	0.30	0.05	
4	1.903	SLE F	5	19	35.44	-392.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1042.19	0.30	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	639.01	2.50	7185.75	7873.13	7185.75	11.245
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	655.98	2.50	7185.75	7873.13	7185.75	10.954

Travata n. 19019

Nodi: 1960 -6526 -6591 -6693 -6790 1906

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.
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Relazione di calcolo

<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5		38.00	3.08	3.08	3.08	3.08	-848.45	-1506.47	1.776

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _e sup	σ _e inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	38.00	3.08	3.08	-625.68	1659.40	-392.03	69.65
1.904	SLE Q		5	38.00	3.08	3.08	-523.99	1389.68	-328.31	58.33

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	19	38.00	-523.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1389.68	0.49	0.08
4	1.903	SLE F		5	19	38.00	-553.25	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1467.29	0.44	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	484.89	2.50	7185.75	7873.13	7185.75	14.819
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	501.86	2.50	7185.75	7873.13	7185.75	14.318

Travata n. 19044

Nodi: 1957 -6431 -6432 -6433 -6434 -6435 -6436 -6437 1958

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	-98.08	-1506.47	15.360
1.271	SLU	4	18.12	3.08	3.08	3.08	3.08	3.08	132.40	1506.47	11.378
2.901	SLU	8	36.25	3.08	3.08	3.08	3.08	3.08	-100.29	-1506.47	15.021

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _e sup	σ _e inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE R		1	0.00	3.08	3.08	-72.95	193.46	-45.71	8.12
0.004	SLE Q		1	0.00	3.08	3.08	-63.73	169.01	-39.93	7.09
1.272	SLE R		4	18.12	3.08	3.08	98.58	-61.76	261.44	10.97
1.274	SLE Q		4	18.12	3.08	3.08	85.80	-53.76	227.57	9.55
2.902	SLE R		8	36.25	3.08	3.08	-74.39	197.29	-46.61	8.28
2.904	SLE Q		8	36.25	3.08	3.08	-64.98	172.33	-40.71	7.23

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.004	SLE Q		1	19	0.00	-63.73	28.00	134.00	0.50	14.00	93.58	3.08	82.65	169.01	0.05	0.01
4	0.003	SLE F		1	19	0.00	-66.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	175.88	0.05	0.01
7	1.274	SLE Q		4	19	18.12	85.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	227.57	0.07	0.01
8	1.273	SLE F		4	19	18.12	89.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	237.43	0.07	0.01
11	2.904	SLE Q		8	19	36.25	-64.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	172.33	0.05	0.01
12	2.903	SLE F		8	19	36.25	-67.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	179.33	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	407.52	2.50	7185.75	7873.13	7185.75	17.633
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	289.38	2.50	7185.75	7873.13	7185.75	24.831
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	410.02	2.50	7185.75	7873.13	7185.75	17.525

Travata n. 19045

Nodi: 1975 -6749 -6750 -6751 -6752 -6753 -6754 -6755 -6756 1976

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	-140.64	-1506.47	10.711

Relazione di calcolo

1.81	1	SLU	5	36.11	3.08	3.08	3.08	99.92	1506.47	15.077
3.25	1	SLU	9	36.11	3.08	3.08	3.08	-130.31	-1506.47	11.561

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _e sup	σ _e inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-99.37	263.55	-62.26	11.06
0.00	4	SLE Q	1	0.00	3.08	3.08	-72.79	193.06	-45.61	8.10
1.81	2	SLE R	5	36.11	3.08	3.08	69.62	-43.62	184.65	7.75
1.81	4	SLE Q	5	36.11	3.08	3.08	53.44	-33.49	141.74	5.95
3.25	2	SLE R	9	36.11	3.08	3.08	-93.53	248.05	-58.60	10.41
3.25	4	SLE Q	9	36.11	3.08	3.08	-79.29	210.29	-49.68	8.83

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-72.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	193.06	0.06	0.01
4	0.00	3	SLE F	1	19	0.00	-80.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	212.33	0.06	0.01
7	1.81	4	SLE Q	5	19	36.11	53.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	141.74	0.04	0.01
8	1.81	3	SLE F	5	19	36.11	57.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	152.82	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	-79.29	28.00	134.00	0.50	14.00	93.58	3.08	82.65	210.29	0.06	0.01
12	3.25	3	SLE F	9	19	36.11	-83.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	220.13	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	8.65	2.50	7185.75	7873.13	7185.75 >100
1	SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	675.57	2.50	7185.75	7873.13	7185.75 10.636
1	SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	675.57	2.50	7185.75	7873.13	7185.75 10.636

Travata n. 19060

Nodi: 1998 1854 -6383 1838

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	-897.31	-6639.53	7.399

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _e sup	σ _e inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.32	2	SLE R	3	52.50	3.08	3.08	-642.62	366.24	-85.14	7.49
3.32	4	SLE Q	3	52.50	3.08	3.08	-267.10	152.22	-35.39	3.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
5	3.32	4	SLE Q	3	16	52.50	-267.10	28.00	94.00	0.50	14.00	119.66	3.08	140.00	152.22	0.04	0.01
7	3.32	3	SLE F	3	16	52.50	-371.62	28.00	94.00	0.50	14.00	119.66	3.08	140.00	211.79	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	1.24	1.82	ø6/32 2 br.	1.77	0.16	1713.41	2.50	7619.38	26714.30	7619.38 4.447
1	SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2472.59	2.50	7619.38	26714.30	7619.38 3.082
1	SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	1960.02	2.50	15238.80	26714.30	15238.80 7.775

Travata n. 19087

Nodi: 1959 -6438 -6439 -6440 -6441 -6442 -6443 -6444 -6445 1960

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	32.98	1506.47	45.682
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	156.40	1506.47	9.632

Relazione di calcolo

3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	37.46	1506.47	40.214
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Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
0.002		SLE R	1	0.00	3.08	3.08	24.31	-15.23	64.47	2.71
0.004		SLE Q	1	0.00	3.08	3.08	20.57	-12.89	54.56	2.29
1.622		SLE R	5	18.06	3.08	3.08	113.69	-71.24	301.53	12.66
1.624		SLE Q	5	18.06	3.08	3.08	92.28	-57.82	244.73	10.27
3.252		SLE R	9	36.11	3.08	3.08	27.53	-17.25	73.02	3.06
3.254		SLE Q	9	36.11	3.08	3.08	23.50	-14.72	62.31	2.62

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.004		SLE Q	1	19	0.00	20.57	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.56	0.02	0.00
4	0.003		SLE F	1	19	0.00	21.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.38	0.02	0.00
7	1.624		SLE Q	5	19	18.06	92.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	244.73	0.07	0.01
8	1.623		SLE F	5	19	18.06	98.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	260.75	0.08	0.01
11	3.254		SLE Q	9	19	36.11	23.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	62.31	0.02	0.00
12	3.253		SLE F	9	19	36.11	24.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	65.34	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	201.41	2.50	7185.75	7873.13	7185.75	35.677
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	80.77	2.50	7185.75	7873.13	7185.75	88.963
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	187.88	2.50	7185.75	7873.13	7185.75	38.246

Travata n. 3001

Nodi: 355 -293 -294 -295 -296 -297 -298 -299 -300 356

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	34.33	1506.47	43.880
1.441		SLU	5	0.00	3.08	3.08	3.08	3.08	136.20	1506.47	11.060
3.231		SLU	9	35.89	3.08	3.08	3.08	3.08	27.61	1506.47	54.563

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
0.002		SLE R	1	0.00	3.08	3.08	25.28	-15.84	67.04	2.81
0.004		SLE Q	1	0.00	3.08	3.08	22.09	-13.84	58.58	2.46
1.442		SLE R	5	0.00	3.08	3.08	99.07	-62.07	262.74	11.03
1.444		SLE Q	5	0.00	3.08	3.08	82.97	-51.98	220.04	9.24
3.232		SLE R	9	35.89	3.08	3.08	20.40	-12.78	54.11	2.27
3.234		SLE Q	9	35.89	3.08	3.08	17.99	-11.27	47.72	2.00

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.004		SLE Q	1	19	0.00	22.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	58.58	0.02	0.00
4	0.003		SLE F	1	19	0.00	23.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.00	0.02	0.00
7	1.444		SLE Q	5	19	0.00	82.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	220.04	0.06	0.01
8	1.443		SLE F	5	19	0.00	87.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	232.23	0.07	0.01
11	3.234		SLE Q	9	19	35.89	17.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	47.72	0.01	0.00
12	3.233		SLE F	9	19	35.89	18.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	49.54	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	185.05	2.50	7185.75	7873.13	7185.75	38.831
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	75.35	2.50	7185.75	7873.13	7185.75	95.362
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	195.99	2.50	7185.75	7873.13	7185.75	36.663

Travata n. 3002

Nodi: 373 -611 -612 -613 -614 -615 -616 -617 -618 374

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>
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	-145.53	-1506.47	10.352
1.61	1	SLU	5	17.94	3.08	3.08	3.08	3.08	81.76	1506.47	18.426
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-124.55	-1506.47	12.095

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ_f sup <daN/cm>	σ_f inf <daN/cm>	σ_c <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-104.01	275.86	-65.17	11.58
0.00	4	SLE Q	1	0.00	3.08	3.08	-89.47	237.28	-56.06	9.96
1.61	2	SLE R	5	17.94	3.08	3.08	56.66	-35.50	150.26	6.31
1.61	4	SLE Q	5	17.94	3.08	3.08	48.37	-30.31	128.29	5.38
3.23	2	SLE R	9	35.89	3.08	3.08	-89.34	236.95	-55.98	9.95
3.23	4	SLE Q	9	35.89	3.08	3.08	-70.43	186.80	-44.13	7.84

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ_s <daN/cm>	ϵ_{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-89.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	237.28	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-93.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	248.32	0.07	0.01
7	1.61	4	SLE Q	5	19	17.94	48.37	28.00	134.00	0.50	14.00	93.58	3.08	82.65	128.29	0.04	0.01
8	1.61	3	SLE F	5	19	17.94	50.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	134.46	0.04	0.01
11	3.23	4	SLE Q	9	19	35.89	-70.43	28.00	134.00	0.50	14.00	93.58	3.08	82.65	186.80	0.05	0.01
12	3.23	3	SLE F	9	19	35.89	-75.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	201.13	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>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	594.36	2.50	7185.75	7873.13	7185.75	12.090
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	594.36	2.50	7185.75	7873.13	7185.75	12.090
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	255.96	2.50	7185.75	7873.13	7185.75	28.074

Travate n. 3010 5010 7010 9010 11010 13010 15010 17010 19010

3010 (a) Nodi: 355 -370 -449 -536 -657 301 321 335
5010 (b) Nodi: 555 -1149 -1223 -1310 -1431 501 521 535
7010 (c) Nodi: 755 -1909 -1988 -2075 -2196 701 721 735
9010 (d) Nodi: 955 -2669 -2753 -2840 -2961 901 921 935
11010 (e) Nodi: 1155 -3457 -3518 -3605 -3726 1101 1121 1135
13010 (f) Nodi: 1355 -4199 -4283 -4370 -4491 1301 1321 1335
15010 (g) Nodi: 1555 -4969 -5048 -5135 -5256 1501 1521 1535
17010 (h) Nodi: 1755 -5730 -5814 -5901 -6022 1701 1721 1735
19010 (i) Nodi: 1955 -6519 -6579 -6666 -6787 1901 1921 1935

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
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	In	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	i	5	0.00	8.29	2.26	8.29	2.26	-896.16	-3548.34	3.960
2.25	1	SLU	b	6	35.00	8.29	0.00	8.29	0.00	-2759.41	-5047.37	1.829
2.40	1	SLU	b	6	50.00	8.29	6.03	8.29	6.03	-2759.41	-5303.47	1.922
4.36	1	SLU	h	6	245.93	6.03	6.03	6.03	6.03	1639.83	3933.07	2.398
6.77	1	SLU	h	6	487.00	6.03	6.03	6.03	6.03	-2626.37	-3933.07	1.498
7.27	1	SLU	a	7	-18.00	6.03	6.03	6.03	6.03	-4000.33	-3933.07	0.983
7.45	1	SLU	a	7	0.00	6.03	6.03	6.03	6.03	-4000.33	-3933.07	0.983
9.77	1	SLU	h	7	232.00	6.03	6.03	6.03	6.03	1791.11	3933.07	2.196
12.12	1	SLU	g	7	467.00	6.03	6.03	6.03	6.03	-2900.11	-3933.07	1.356
12.27	1	SLU	g	7	482.00	6.03	6.03	6.03	6.03	-2900.11	-3933.07	1.356

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ_f sup <daN/cm>	σ_f inf <daN/cm>	σ_c <daN/cm>
1.90	2	SLE R	i	5	0.00	8.29	2.26	-659.50	682.00	-481.11	56.75
1.90	4	SLE Q	i	5	0.00	8.29	2.26	-549.78	568.53	-401.07	47.31
2.25	2	SLE R	b	6	35.00	8.29	0.00	-1892.73	1317.50	0.00	76.39
2.25	4	SLE Q	b	6	35.00	8.29	0.00	-1869.07	1301.04	0.00	75.44
2.40	2	SLE R	b	6	50.00	8.29	6.03	-1892.73	1304.68	-529.51	60.48
2.40	4	SLE Q	b	6	50.00	8.29	6.03	-1869.07	1288.38	-522.89	59.72

Relazione di calcolo

4.36	2	SLE R	h	6	245.93	6.03	6.03	1113.78	-313.11	1042.24	39.48
4.36	4	SLE Q	h	6	245.93	6.03	6.03	1121.41	-315.25	1049.39	39.75
6.77	2	SLE R	h	6	487.00	6.03	6.03	-1799.42	1683.84	-505.85	63.78
6.77	4	SLE Q	h	6	487.00	6.03	6.03	-1778.03	1663.83	-499.84	63.02
7.27	2	SLE R	a	7	-18.00	6.03	6.03	-2728.33	2553.09	-766.99	96.70
7.27	4	SLE Q	a	7	-18.00	6.03	6.03	-2729.03	2553.75	-767.19	96.73
7.45	2	SLE R	a	7	0.00	6.03	6.03	-2728.33	2553.09	-766.99	96.70
7.45	4	SLE Q	a	7	0.00	6.03	6.03	-2729.03	2553.75	-767.19	96.73
9.77	2	SLE R	h	7	232.00	6.03	6.03	1220.60	-343.13	1142.20	43.26
9.77	4	SLE Q	h	7	232.00	6.03	6.03	1221.35	-343.35	1142.91	43.29
12.12	2	SLE R	g	7	467.00	6.03	6.03	-1983.92	1856.50	-557.72	70.32
12.12	4	SLE Q	g	7	467.00	6.03	6.03	-1951.78	1826.42	-548.69	69.18
12.27	2	SLE R	g	7	482.00	6.03	6.03	-1983.92	1856.50	-557.72	70.32
12.27	4	SLE Q	g	7	482.00	6.03	6.03	-1951.78	1826.42	-548.69	69.18

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	In	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
56	2.25	4	SLE Q	b	6	26	35.00	-1869.07	27.80	58.00	0.50	14.67	81.18	8.29	144.64	1301.04	0.55	0.08
65	2.25	3	SLE F	b	6	26	35.00	-1875.78	27.80	58.00	0.50	14.67	81.18	8.29	144.64	1305.71	0.52	0.07
92	2.40	4	SLE Q	b	6	26	50.00	-1869.07	27.80	58.00	0.50	14.67	83.17	8.29	155.92	1288.38	0.54	0.08
101	2.40	3	SLE F	b	6	26	50.00	-1875.78	27.80	58.00	0.50	14.67	83.17	8.29	155.92	1293.00	0.50	0.07
135	4.36	4	SLE Q	h	6	26	245.93	1121.41	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1049.39	0.40	0.07
145	4.36	3	SLE F	h	6	26	245.93	1119.24	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1047.35	0.34	0.06
173	6.77	4	SLE Q	h	6	26	487.00	-1778.03	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1663.83	0.70	0.12
182	6.77	3	SLE F	h	6	26	487.00	-1784.35	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1669.75	0.65	0.11
202	7.27	4	SLE Q	a	7	26	-18.00	-2729.03	27.00	116.00	0.50	16.00	97.96	6.03	165.73	2553.75	1.13	0.19
211	7.27	3	SLE F	a	7	26	-18.00	-2728.85	27.00	116.00	0.50	16.00	97.96	6.03	165.73	2553.58	1.08	0.18
238	7.45	4	SLE Q	a	7	26	0.00	-2729.03	27.00	116.00	0.50	16.00	97.96	6.03	165.73	2553.75	1.13	0.19
247	7.45	3	SLE F	a	7	26	0.00	-2728.85	27.00	116.00	0.50	16.00	97.96	6.03	165.73	2553.58	1.08	0.18
281	9.77	4	SLE Q	h	7	26	232.00	1221.35	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1142.91	0.45	0.07
290	9.77	3	SLE F	h	7	26	232.00	1221.14	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1142.71	0.39	0.06
316	12.12	4	SLE Q	g	7	26	467.00	-1951.78	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1826.42	0.78	0.13
325	12.12	3	SLE F	g	7	26	467.00	-1960.73	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1834.80	0.73	0.12
352	12.27	4	SLE Q	g	7	26	482.00	-1951.78	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1826.42	0.78	0.13
361	12.27	3	SLE F	g	7	26	482.00	-1960.73	27.00	116.00	0.50	16.00	97.96	6.03	165.73	1834.80	0.73	0.12

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	657.58	2.50	7185.75	7873.13	7185.75	10.928
1 SLU	1.75	1.90	0.14	i	ø6/ 8 2 br.	7.07	0.20	674.54	2.50	7185.75	7873.13	7185.75	10.653
1 SLU	2.40	2.62	0.22	a	ø6/20 2 br.	2.83	0.30	3415.96	2.50	4063.67	9215.72	4063.67	1.190
1 SLU	2.62	6.55	3.93	h	ø6/20 2 br.	2.83	0.30	3259.69	2.50	4063.67	9215.72	4063.67	1.247
1 SLU	6.55	6.77	0.22	h	ø6/20 2 br.	2.83	0.30	3611.66	2.50	4063.67	9215.72	4063.67	1.125
1 SLU	7.45	7.67	0.22	a	ø6/20 2 br.	2.83	0.30	3928.17	2.50	4063.67	9215.72	4063.67	1.034
1 SLU	7.67	11.90	4.23	a	ø6/20 2 br.	2.83	0.30	3576.21	2.50	4063.67	9215.72	4063.67	1.136
1 SLU	11.90	12.12	0.22	g	ø6/20 2 br.	2.83	0.30	3546.74	2.50	4063.67	9215.72	4063.67	1.146

Travata n. 3011

Nodi: 356 -437 -524 373 -732 302

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.
1.90	1	SLU	5	35.43	3.08	3.08	3.08	3.08	-571.25	-1506.47	2.637

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-420.51	1115.25	-263.48	46.81
1.90	4	SLE Q	5	35.43	3.08	3.08	-352.05	933.69	-220.58	39.19

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	35.43	-352.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	933.69	0.27	0.04
4	1.90	3	SLE F	5	19	35.43	-371.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	985.56	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.
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Relazione di calcolo

1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	493.74	2.50	7185.75	7873.13	7185.75	14.554
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	510.70	2.50	7185.75	7873.13	7185.75	14.070

Travata n. 3012

Nodi: 385 -929 397 337

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.
4.671	1	SLU	3	317.00	3.08	3.08	3.08	3.08	-443.16	-2142.71	4.835
4.821	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-443.16	-2142.71	4.835

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
4.672	2	SLE R	3	317.00	3.08	3.08	-319.83	582.60	-156.24	20.56
4.674	4	SLE Q	3	317.00	3.08	3.08	-263.40	479.82	-128.68	16.93
4.822	2	SLE R	3	332.00	3.08	3.08	-319.83	582.60	-156.24	20.56
4.824	4	SLE Q	3	332.00	3.08	3.08	-263.40	479.82	-128.68	16.93

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	4.674	4	SLE Q	3	18	317.00	-263.40	28.00	114.00	0.50	14.00	102.12	3.08	101.43	479.82	0.14	0.02
4	4.673	4	SLE F	3	18	317.00	-279.49	28.00	114.00	0.50	14.00	102.12	3.08	101.43	509.13	0.15	0.03
7	4.824	4	SLE Q	3	18	332.00	-263.40	28.00	114.00	0.50	14.00	102.12	3.08	101.43	479.82	0.14	0.02
8	4.823	4	SLE F	3	18	332.00	-279.49	28.00	114.00	0.50	14.00	102.12	3.08	101.43	509.13	0.15	0.03

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	1291.93	2.50	7619.38	26714.30	7619.38	5.898
1 SLU	1.50	4.46	2.96	ø6/16 2 br.	3.53	0.18	419.57	2.50	5079.58	10017.90	5079.58	12.107
1 SLU	4.46	4.67	0.20	ø6/16 2 br.	3.53	0.18	448.35	2.50	5079.58	10017.90	5079.58	11.329

Travata n. 3013

Nodi: 357 -438 -525 374 -733 303

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.
1.901	1	SLU	5	35.38	6.03	4.02	6.03	4.02	-8155.81	-9551.64	1.171

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
1.902	2	SLE R	5	35.38	6.03	4.02	-6026.30	2358.54	-655.97	60.09
1.904	4	SLE Q	5	35.38	6.03	4.02	-5485.90	2147.04	-597.15	54.70

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	1.904	4	SLE Q	5	30	35.38	-5485.90	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2147.04	0.88	0.19
4	1.903	4	SLE F	5	30	35.38	-5640.30	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2207.47	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	4029.46	2.50	10241.80	20904.00	10241.80	2.542
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5046.59	2.50	10241.80	20904.00	10241.80	2.029

Travata n. 3016

Relazione di calcolo

Nodi: 358 -439 -526 375 -734 304

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	-8165.93	-9551.64	1.170

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ_f sup <daN/cm>	σ_f inf <daN/cm>	σ_c <daN/cm>
1.90	2	SLE R	5	35.41	6.03	4.02	-6033.07	2361.19	-656.71	60.16
1.90	4	SLE Q	5	35.41	6.03	4.02	-5492.35	2149.57	-597.85	54.77

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ_s <daN/cm>	ϵ_{sm}	Wk <mm>
3	1.90	4	SLE Q	5	30	35.41	-5492.35	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2149.57	0.88	0.19
4	1.90	3	SLE F	5	30	35.41	-5646.84	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2210.03	0.83	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	4041.31	2.50	10241.80	20904.00	10241.80	2.534
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5044.89	2.50	10241.80	20904.00	10241.80	2.030

Travata n. 3017

Nodi: 388 -933 398 338

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	-308.86	-2142.71	6.937
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-308.86	-2142.71	6.937

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ_f sup <daN/cm>	σ_f inf <daN/cm>	σ_c <daN/cm>
4.67	2	SLE R	3	317.00	3.08	3.08	-224.45	408.87	-109.65	14.43
4.67	4	SLE Q	3	317.00	3.08	3.08	-184.75	336.55	-90.25	11.88
4.82	2	SLE R	3	332.00	3.08	3.08	-224.45	408.87	-109.65	14.43
4.82	4	SLE Q	3	332.00	3.08	3.08	-184.75	336.55	-90.25	11.88

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ_s <daN/cm>	ϵ_{sm}	Wk <mm>
3	4.67	4	SLE Q	3	18	317.00	-184.75	28.00	114.00	0.50	14.00	102.12	3.08	101.43	336.55	0.10	0.02
4	4.67	3	SLE F	3	18	317.00	-196.09	28.00	114.00	0.50	14.00	102.12	3.08	101.43	357.21	0.10	0.02
7	4.82	4	SLE Q	3	18	332.00	-184.75	28.00	114.00	0.50	14.00	102.12	3.08	101.43	336.55	0.10	0.02
8	4.82	3	SLE F	3	18	332.00	-196.09	28.00	114.00	0.50	14.00	102.12	3.08	101.43	357.21	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	420.72	2.50	7619.38	26714.30	7619.38	18.110
1 SLU	1.50	4.46	2.96	ø6/16 2 br.	3.53	0.18	317.90	2.50	5079.58	10017.90	5079.58	15.978
1 SLU	4.46	4.67	0.20	ø6/16 2 br.	3.53	0.18	346.69	2.50	5079.58	10017.90	5079.58	14.652

Travata n. 3018

Nodi: 359 -440 -527 376 -735 305

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

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>	
1.901	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-582.77	-1506.47	2.585

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _e sup	σ _e inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	2	SLE R	5	35.44	3.08	3.08	-428.31	1135.93	-268.36	47.68
1.904	4	SLE Q	5	35.44	3.08	3.08	-360.08	955.00	-225.62	40.08

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c off} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	19	35.44	-360.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	955.00	0.28	0.04	
4	1.903	SLE F	5	19	35.44	-379.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1006.69	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	503.87	2.50	7185.75	7873.13	7185.75	14.261
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	520.84	2.50	7185.75	7873.13	7185.75	13.796

Travata n. 3019

Nodi: 360 -371 -461 -546 -664 306

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	-697.93	-1506.47	2.158

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _e sup	σ _e inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	2	SLE R	5	38.00	3.08	3.08	-516.25	1369.17	-323.46	57.47
1.904	4	SLE Q	5	38.00	3.08	3.08	-433.18	1148.86	-271.42	48.22

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cm>		<mm>
3	1.904	SLE Q	5	19	38.00	-433.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1148.86	0.38	0.06	
4	1.903	SLE F	5	19	38.00	-456.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1211.80	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	174.51	2.50	7185.75	7873.13	7185.75	41.176
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	191.48	2.50	7185.75	7873.13	7185.75	37.528

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	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>
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	CC	TCC	In	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>					<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.351	1	SLU	a	1	35.00	8.04	8.04	8.04	8.04	-659.45	-5327.58	8.079

Relazione di calcolo

0.501	SLU	a	1	50.00	8.04	8.04	8.04	8.04	-659.45	-5327.58	8.079
2.461	SLU	h	1	245.93	8.04	8.04	8.04	8.04	460.97	5327.58	11.557
4.871	SLU	h	1	487.00	8.04	8.04	8.04	8.04	-973.54	-5327.58	5.472
5.551	SLU	i	2	0.00	8.04	8.04	8.04	8.04	-1098.46	-5327.58	4.850
8.561	SLU	i	2	301.25	8.04	8.04	8.04	8.04	491.32	5327.58	10.843
10.221	SLU	a	2	467.00	8.04	8.04	8.04	8.04	-643.33	-5327.58	8.281
10.371	SLU	a	2	482.00	8.04	8.04	8.04	8.04	-643.33	-5327.58	8.281

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	InEl	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _t sup <daN/cmq>	σ _t inf <daN/cmq>	σ _c <daN/cmq>
0.352	SLE	R a	1	35.00	8.04	8.04	-507.79	353.21	-90.54	12.13
0.354	SLE	Q a	1	35.00	8.04	8.04	-493.73	343.43	-88.03	11.79
0.502	SLE	R a	1	50.00	8.04	8.04	-507.79	353.21	-90.54	12.13
0.504	SLE	Q a	1	50.00	8.04	8.04	-493.73	343.43	-88.03	11.79
2.462	SLE	R h	1	245.93	8.04	8.04	349.03	-62.23	242.78	8.34
2.464	SLE	Q h	1	245.93	8.04	8.04	348.36	-62.11	242.32	8.32
4.872	SLE	R h	1	487.00	8.04	8.04	-718.32	499.66	-128.07	17.15
4.874	SLE	Q h	1	487.00	8.04	8.04	-720.27	501.01	-128.42	17.20
5.552	SLE	R i	2	0.00	8.04	8.04	-827.22	575.40	-147.49	19.75
5.554	SLE	Q i	2	0.00	8.04	8.04	-839.07	583.65	-149.60	20.04
8.562	SLE	R i	2	301.25	8.04	8.04	376.60	-67.15	261.96	8.99
8.564	SLE	Q i	2	301.25	8.04	8.04	377.24	-67.26	262.40	9.01
10.222	SLE	R a	2	467.00	8.04	8.04	-496.23	345.17	-88.48	11.85
10.224	SLE	Q a	2	467.00	8.04	8.04	-488.48	339.78	-87.09	11.67
10.372	SLE	R a	2	482.00	8.04	8.04	-496.23	345.17	-88.48	11.85
10.374	SLE	Q a	2	482.00	8.04	8.04	-488.48	339.78	-87.09	11.67

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	InEl	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
19	0.354	SLE	Q a	1	31	35.00	-493.73	27.00	144.00	0.50	16.00	110.47	8.04	283.86	343.43	0.10	0.02
28	0.353	SLE	F a	1	31	35.00	-497.70	27.00	144.00	0.50	16.00	110.47	8.04	283.86	346.19	0.10	0.02
55	0.504	SLE	Q a	1	31	50.00	-493.73	27.00	144.00	0.50	16.00	110.47	8.04	283.86	343.43	0.10	0.02
64	0.503	SLE	F a	1	31	50.00	-497.70	27.00	144.00	0.50	16.00	110.47	8.04	283.86	346.19	0.10	0.02
98	2.464	SLE	Q h	1	31	245.93	348.36	27.00	144.00	0.50	16.00	110.47	8.04	283.86	242.32	0.07	0.01
107	2.463	SLE	F h	1	31	245.93	348.57	27.00	144.00	0.50	16.00	110.47	8.04	283.86	242.46	0.07	0.01
134	4.874	SLE	Q h	1	31	487.00	-720.27	27.00	144.00	0.50	16.00	110.47	8.04	283.86	501.01	0.15	0.03
143	4.873	SLE	F h	1	31	487.00	-719.81	27.00	144.00	0.50	16.00	110.47	8.04	283.86	500.69	0.15	0.03
171	5.554	SLE	Q i	2	31	0.00	-839.07	27.00	144.00	0.50	16.00	110.47	8.04	283.86	583.65	0.17	0.03
180	5.553	SLE	F i	2	31	0.00	-835.80	27.00	144.00	0.50	16.00	110.47	8.04	283.86	581.37	0.17	0.03
207	8.564	SLE	Q i	2	31	301.25	377.24	27.00	144.00	0.50	16.00	110.47	8.04	283.86	262.40	0.08	0.01
216	8.563	SLE	F i	2	31	301.25	377.06	27.00	144.00	0.50	16.00	110.47	8.04	283.86	262.28	0.08	0.01
235	10.224	SLE	Q a	2	31	467.00	-488.48	27.00	144.00	0.50	16.00	110.47	8.04	283.86	339.78	0.10	0.02
244	10.223	SLE	F a	2	31	467.00	-490.64	27.00	144.00	0.50	16.00	110.47	8.04	283.86	341.28	0.10	0.02
271	10.374	SLE	Q a	2	31	482.00	-488.48	27.00	144.00	0.50	16.00	110.47	8.04	283.86	339.78	0.10	0.02
280	10.373	SLE	F a	2	31	482.00	-490.64	27.00	144.00	0.50	16.00	110.47	8.04	283.86	341.28	0.10	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	a	ø6/20 2 br.	2.83	0.50	839.99	2.50	4063.67	15359.50	4063.67	4.838
1 SLU	0.72	4.65	3.93	h	ø6/20 2 br.	2.83	0.50	956.43	2.50	4063.67	15359.50	4063.67	4.249
1 SLU	4.65	4.87	0.22	h	ø6/20 2 br.	2.83	0.50	1042.30	2.50	4063.67	15359.50	4063.67	3.899
1 SLU	5.55	5.77	0.22	i	ø6/20 2 br.	2.83	0.50	1097.89	2.50	4063.67	15359.50	4063.67	3.701
1 SLU	5.77	10.00	4.23	i	ø6/20 2 br.	2.83	0.50	1012.02	2.50	4063.67	15359.50	4063.67	4.015
1 SLU	10.00	10.22	0.22	a	ø6/20 2 br.	2.83	0.50	847.27	2.50	4063.67	15359.50	4063.67	4.796

Travata n. 3087

Nodi: 359 -308 -309 -310 -311 -312 -313 -314 -315 360

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.
0.001	SLU	1	1	0.00	3.08	3.08	3.08	3.08	25.06	1506.47	60.106
1.621	SLU	5	1	18.06	3.08	3.08	3.08	3.08	125.14	1506.47	12.039
3.251	SLU	9	1	36.11	3.08	3.08	3.08	3.08	31.03	1506.47	48.547

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _t sup <daN/cmq>	σ _t inf <daN/cmq>	σ _c <daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	18.62	-11.67	49.38	2.07
0.004	SLE	Q	1	0.00	3.08	3.08	16.42	-10.29	43.55	1.83

Relazione di calcolo

1.62	2	SLE R	5	18.06	3.08	3.08	91.28	-57.19	242.09	10.16
1.62	4	SLE Q	5	18.06	3.08	3.08	76.13	-47.70	201.90	8.47
3.25	2	SLE R	9	36.11	3.08	3.08	22.95	-14.38	60.86	2.55
3.25	4	SLE Q	9	36.11	3.08	3.08	20.08	-12.58	53.24	2.23

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	16.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	43.55	0.01	0.00
5	0.00	3	SLE F	1	19	0.00	17.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	45.22	0.01	0.00
8	1.62	4	SLE Q	5	19	18.06	76.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	201.90	0.06	0.01
9	1.62	3	SLE F	5	19	18.06	80.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	213.38	0.06	0.01
12	3.25	4	SLE Q	9	19	36.11	20.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.24	0.02	0.00
13	3.25	3	SLE F	9	19	36.11	20.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.42	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	196.99	2.50	7185.75	7873.13	7185.75	36.477
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	76.35	2.50	7185.75	7873.13	7185.75	94.113
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	181.83	2.50	7185.75	7873.13	7185.75	39.520

Travata n. 5001

Nodi: 555 -1067 -1068 -1069 -1070 -1071 -1072 -1073 -1074 556

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	31.63	1506.47	47.624
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	133.98	1506.47	11.244
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	29.57	1506.47	50.946

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _ε sup	σ _ε inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	23.34	-14.63	61.91	2.60
0.00	4	SLE Q	1	0.00	3.08	3.08	20.43	-12.80	54.19	2.27
1.44	2	SLE R	5	0.00	3.08	3.08	97.45	-61.06	258.44	10.85
1.44	4	SLE Q	5	0.00	3.08	3.08	81.38	-50.99	215.82	9.06
3.23	2	SLE R	9	35.89	3.08	3.08	21.79	-13.65	57.79	2.43
3.23	4	SLE Q	9	35.89	3.08	3.08	19.07	-11.95	50.58	2.12

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	20.43	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.19	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	21.26	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.40	0.02	0.00
7	1.44	4	SLE Q	5	19	0.00	81.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	215.82	0.06	0.01
8	1.44	3	SLE F	5	19	0.00	85.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	227.99	0.07	0.01
11	3.23	4	SLE Q	9	19	35.89	19.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	50.58	0.01	0.00
12	3.23	3	SLE F	9	19	35.89	19.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.63	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	184.23	2.50	7185.75	7873.13	7185.75	39.004
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	75.63	2.50	7185.75	7873.13	7185.75	95.008
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	196.27	2.50	7185.75	7873.13	7185.75	36.611

Travata n. 5002

Nodi: 573 -1385 -1386 -1387 -1388 -1389 -1390 -1391 -1392 574

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	-133.71	-1506.47	11.267

Relazione di calcolo

1.79	1	SLU	5	35.89	3.08	3.08	3.08	88.96	1506.47	16.935
3.23	1	SLU	9	35.89	3.08	3.08	3.08	-114.85	-1506.47	13.117

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ_e sup	σ_e inf	σ_c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-95.83	254.14	-60.04	10.67
0.00	4	SLE Q	1	0.00	3.08	3.08	-84.52	224.15	-52.96	9.41
1.79	2	SLE R	5	35.89	3.08	3.08	61.88	-38.77	164.13	6.89
1.79	4	SLE Q	5	35.89	3.08	3.08	53.48	-33.51	141.84	5.95
3.23	2	SLE R	9	35.89	3.08	3.08	-82.00	217.47	-51.38	9.13
3.23	4	SLE Q	9	35.89	3.08	3.08	-62.18	164.92	-38.96	6.92

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ_{eq}	Δ_{sm}	A _s	A _{c eff}	σ_s	ϵ_{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-84.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	224.15	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-87.76	28.00	134.00	0.50	14.00	93.58	3.08	82.65	232.76	0.07	0.01
7	1.79	4	SLE Q	5	19	35.89	53.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	141.84	0.04	0.01
8	1.79	3	SLE F	5	19	35.89	55.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	148.20	0.04	0.01
11	3.23	4	SLE Q	9	19	35.89	-62.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	164.92	0.05	0.01
12	3.23	3	SLE F	9	19	35.89	-67.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	179.93	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	583.62	2.50	7185.75	7873.13	7185.75	12.312
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	583.62	2.50	7185.75	7873.13	7185.75	12.312
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	274.75	2.50	7185.75	7873.13	7185.75	26.154

Travata n. 5011

Nodi: 556 -1211 -1298 573 -1506 502

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	35.43	3.08	3.08	3.08	3.08	-569.96	-1506.47	2.643

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ_e sup	σ_e inf	σ_c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	35.43	3.08	3.08	-419.78	1113.32	-263.02	46.73
1.90	4	SLE Q	5	35.43	3.08	3.08	-351.18	931.39	-220.04	39.09

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ_{eq}	Δ_{sm}	A _s	A _{c eff}	σ_s	ϵ_{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	35.43	-351.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	931.39	0.27	0.04
4	1.90	3	SLE F	5	19	35.43	-370.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	983.36	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	505.06	2.50	7185.75	7873.13	7185.75	14.227
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	522.03	2.50	7185.75	7873.13	7185.75	13.765

Travata n. 5012

Nodi: 585 -1703 597 537

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	-537.29	-2142.71	3.988

Relazione di calcolo

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
4.82	2	SLE R	3	332.00	3.08	3.08	-387.94	706.68	-189.52	24.94
4.82	4	SLE Q	3	332.00	3.08	3.08	-312.81	569.82	-152.81	20.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	4.82	4	SLE Q	3	18	332.00	-312.81	28.00	114.00	0.50	14.00	102.12	3.08	101.43	569.82	0.17	0.03
4	4.82	3	SLE F	3	18	332.00	-334.24	28.00	114.00	0.50	14.00	102.12	3.08	101.43	608.86	0.18	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	1996.60	2.50	7619.38	26714.30	7619.38	3.816
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	485.81	2.50	5079.58	10017.90	5079.58	10.456
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	514.59	2.50	5079.58	10017.90	5079.58	9.871

Travata n. 5013

Nodi: 557 -1212 -1299 574 -1507 503

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 <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	35.38	6.03	4.02	6.03	4.02	-8115.79	-9551.64	1.177

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.90	2	SLE R	5	35.38	6.03	4.02	-5996.83	2347.01	-652.77	59.80
1.90	4	SLE Q	5	35.38	6.03	4.02	-5456.51	2135.54	-593.95	54.41

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	30	35.38	-5456.51	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2135.54	0.88	0.18
4	1.90	3	SLE F	5	30	35.38	-5610.88	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2195.96	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	3990.67	2.50	10241.80	20904.00	10241.80	2.566
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	4999.76	2.50	10241.80	20904.00	10241.80	2.048

Travata n. 5016

Nodi: 558 -1213 -1300 575 -1508 504

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 <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	35.41	6.03	4.02	6.03	4.02	-8122.91	-9551.64	1.176

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.90	2	SLE R	5	35.41	6.03	4.02	-6001.37	2348.79	-653.26	59.84
1.90	4	SLE Q	5	35.41	6.03	4.02	-5461.07	2137.32	-594.45	54.45

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	30	35.41	-5461.07	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2137.32	0.88	0.18
4	1.90	3	SLE F	5	30	35.41	-5615.44	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2197.74	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	4002.47	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	4999.91	2.50	10241.80	20904.00	10241.80	2.048

Travata n. 5017

Nodi: 588 -1707 598 538

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 <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
4.821	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-400.15	-2142.71	5.355

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
4.822	2	SLE R	3	332.00	3.08	3.08	-290.83	529.78	-142.08	18.69
4.824	4	SLE Q	3	332.00	3.08	3.08	-231.04	420.86	-112.87	14.85

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	4.824	SLE Q	3	18	332.00	-231.04	28.00	114.00	0.50	14.00	102.12	3.08	101.43		420.86	0.12	0.02
4	4.823	SLE F	3	18	332.00	-248.13	28.00	114.00	0.50	14.00	102.12	3.08	101.43		451.99	0.13	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	446.77	2.50	7619.38	26714.30	7619.38	17.055
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	383.86	2.50	5079.58	10017.90	5079.58	13.233
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	412.64	2.50	5079.58	10017.90	5079.58	12.310

Travata n. 5018

Nodi: 559 -1214 -1301 576 -1509 505

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	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-583.95	-1506.47	2.580

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
1.902	2	SLE R	5	35.44	3.08	3.08	-429.14	1138.15	-268.89	47.77
1.904	4	SLE Q	5	35.44	3.08	3.08	-361.04	957.52	-226.21	40.19

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	19	35.44	-361.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	957.52	0.28	0.04	
4	1.903	SLE F	5	19	35.44	-380.49	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1009.12	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	509.49	2.50	7185.75	7873.13	7185.75	14.104
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	526.46	2.50	7185.75	7873.13	7185.75	13.649

Travata n. 5019

Nodi: 560 -1160 -1235 -1323 -1433 506

Relazione di calcolo

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	38.00	3.08	3.08	3.08	3.08	-703.39	-1506.47	2.142

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.90	2	SLE R	5	38.00	3.08	3.08	-520.14	1379.50	-325.91	57.90
1.90	4	SLE Q	5	38.00	3.08	3.08	-436.93	1158.81	-273.77	48.64

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	19	38.00	-436.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1158.81	0.38	0.06
4	1.90	3	SLE F	5	19	38.00	-460.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1221.85	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	167.01	2.50	7185.75	7873.13	7185.75	43.026
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	183.97	2.50	7185.75	7873.13	7185.75	39.059

Travata n. 5044

Nodi: 557 -1075 -1076 -1077 -1078 -1079 -1080 -1081 558

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	-187.96	-1506.47	8.015
1.27	1	SLU	4	18.12	3.08	3.08	3.08	3.08	216.27	1506.47	6.966
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-188.16	-1506.47	8.006

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-142.88	378.93	-89.52	15.91
0.00	4	SLE Q	1	0.00	3.08	3.08	-134.65	357.12	-84.37	14.99
1.27	2	SLE R	4	18.12	3.08	3.08	162.70	-101.94	431.50	18.11
1.27	4	SLE Q	4	18.12	3.08	3.08	148.46	-93.02	393.74	16.53
2.90	2	SLE R	8	36.25	3.08	3.08	-143.02	379.32	-89.61	15.92
2.90	4	SLE Q	8	36.25	3.08	3.08	-134.68	357.19	-84.39	14.99

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-134.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	357.12	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-137.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	363.35	0.11	0.02
7	1.27	4	SLE Q	4	19	18.12	148.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	393.74	0.11	0.02
8	1.27	3	SLE F	4	19	18.12	152.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	404.52	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-134.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	357.19	0.10	0.02
12	2.90	3	SLE F	8	19	36.25	-137.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	363.51	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	879.38	2.50	7185.75	7873.13	7185.75	8.171
1	SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	579.66	2.50	7185.75	7873.13	7185.75	12.396
1	SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	878.53	2.50	7185.75	7873.13	7185.75	8.179

Travata n. 5045

Nodi: 575 -1393 -1394 -1395 -1396 -1397 -1398 -1399 -1400 576

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.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-118.89	-1506.47	12.671
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	88.50	1506.47	17.022
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-149.47	-1506.47	10.078

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-84.83	224.98	-53.15	9.44
0.00	4	SLE Q	1	0.00	3.08	3.08	-64.61	171.35	-40.48	7.19
1.44	2	SLE R	5	0.00	3.08	3.08	61.58	-38.58	163.31	6.85
1.44	4	SLE Q	5	0.00	3.08	3.08	53.22	-33.35	141.16	5.92
3.25	2	SLE R	9	36.11	3.08	3.08	-107.04	283.89	-67.07	11.92
3.25	4	SLE Q	9	36.11	3.08	3.08	-93.66	248.40	-58.68	10.43

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-64.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	171.35	0.05	0.01
4	0.00	3	SLE F	1	19	0.00	-70.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	186.66	0.05	0.01
7	1.44	4	SLE Q	5	19	0.00	53.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	141.16	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	55.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	147.49	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	-93.66	28.00	134.00	0.50	14.00	93.58	3.08	82.65	248.40	0.07	0.01
12	3.25	3	SLE F	9	19	36.11	-97.49	28.00	134.00	0.50	14.00	93.58	3.08	82.65	258.55	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	267.66	2.50	7185.75	7873.13	7185.75	26.846
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	587.46	2.50	7185.75	7873.13	7185.75	12.232
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	587.46	2.50	7185.75	7873.13	7185.75	12.232

Travata n. 5087

Nodi: 559 -1082 -1083 -1084 -1085 -1086 -1087 -1088 -1089 560

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	25.87	1506.47	58.235
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	125.74	1506.47	11.981
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	30.62	1506.47	49.196

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	19.19	-12.02	50.90	2.14
0.00	4	SLE Q	1	0.00	3.08	3.08	16.81	-10.53	44.59	1.87
1.62	2	SLE R	5	18.06	3.08	3.08	91.64	-57.42	243.05	10.20
1.62	4	SLE Q	5	18.06	3.08	3.08	76.24	-47.77	202.20	8.49
3.25	2	SLE R	9	36.11	3.08	3.08	22.63	-14.18	60.01	2.52
3.25	4	SLE Q	9	36.11	3.08	3.08	19.79	-12.40	52.48	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 ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	16.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	44.59	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	17.49	28.00	134.00	0.50	14.00	93.58	3.08	82.65	46.39	0.01	0.00
7	1.62	4	SLE Q	5	19	18.06	76.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	202.20	0.06	0.01
8	1.62	3	SLE F	5	19	18.06	80.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	213.87	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	19.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.48	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	20.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.63	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	196.64	2.50	7185.75	7873.13	7185.75	36.543

Relazione di calcolo

1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	76.00	2.50	7185.75	7873.13	7185.75	94.553
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	182.20	2.50	7185.75	7873.13	7185.75	39.438

Travata n. 6012

Nodi: 597 653 -1790 637

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.
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	3.08	-2493.89	-13043.50	5.230

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ _f sup <daN/cm q>	σ _f inf <daN/cm q>	σ _c <daN/cm q>
3.322	2	SLE R	3	52.50	6.16	3.08	-1774.90	519.15	-201.50	16.33
3.324	4	SLE Q	3	52.50	6.16	3.08	-1234.66	361.13	-140.17	11.36

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	3.324	SLE Q	3	16	52.50	-1234.66	28.00	31.33	0.50	14.00	87.83	6.16	140.00	361.13	0.11	0.02	
4	3.323	SLE F	3	16	52.50	-1389.00	28.00	31.33	0.50	14.00	87.83	6.16	140.00	406.27	0.12	0.02	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <cm>	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	1010.75	2.50	7619.38	26714.30	7619.38	7.538
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	961.48	2.50	7619.38	26714.30	7619.38	7.925
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	3272.94	2.50	15238.80	26714.30	15238.80	4.656

Travata n. 7001

Nodi: 755 -1832 -1833 -1834 -1835 -1836 -1837 -1838 -1839 756

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.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	30.78	1506.47	48.945
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	135.34	1506.47	11.131
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	31.16	1506.47	48.346

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ _f sup <daN/cm q>	σ _f inf <daN/cm q>	σ _c <daN/cm q>
0.002	SLE R	1	0.00	3.08	3.08	22.73	-14.24	60.27	2.53	
0.004	SLE Q	1	0.00	3.08	3.08	19.95	-12.50	52.92	2.22	
1.442	SLE R	5	0.00	3.08	3.08	98.41	-61.66	261.00	10.96	
1.444	SLE Q	5	0.00	3.08	3.08	82.06	-51.42	217.65	9.14	
3.232	SLE R	9	35.89	3.08	3.08	22.93	-14.37	60.81	2.55	
3.234	SLE Q	9	35.89	3.08	3.08	19.92	-12.48	52.82	2.22	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez .	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmqr>	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	19.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.92	0.02	0.00
4	0.003	SLE	F	1	19	0.00	20.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.03	0.02	0.00
7	1.444	SLE	Q	5	19	0.00	82.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	217.65	0.06	0.01
8	1.443	SLE	F	5	19	0.00	86.73	28.00	134.00	0.50	14.00	93.58	3.08	82.65	230.02	0.07	0.01
11	3.234	SLE	Q	9	19	35.89	19.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.82	0.02	0.00
12	3.233	SLE	F	9	19	35.89	20.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.09	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <cm>	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	183.22	2.50	7185.75	7873.13	7185.75	39.219
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	77.49	2.50	7185.75	7873.13	7185.75	92.735

Relazione di calcolo

1	SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	198.13	2.50	7185.75	7873.13	7185.75	36.268
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Travata n. 7002

Nodi: 773 -2150 -2151 -2152 -2153 -2154 -2155 -2156 -2157 774

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	-123.67	-1506.47	12.182
1.79	1	SLU	5	35.89	3.08	3.08	3.08	3.08	90.33	1506.47	16.678
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-112.81	-1506.47	13.354

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _e sup <daN/cm>	σ _e inf <daN/cm>	σ _c <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-88.75	235.38	-55.61	9.88
0.00	4	SLE Q	1	0.00	3.08	3.08	-79.88	211.86	-50.05	8.89
1.79	2	SLE R	5	35.89	3.08	3.08	62.88	-39.40	166.77	7.00
1.79	4	SLE Q	5	35.89	3.08	3.08	54.30	-34.02	144.00	6.04
3.23	2	SLE R	9	35.89	3.08	3.08	-80.36	213.12	-50.35	8.95
3.23	4	SLE Q	9	35.89	3.08	3.08	-59.97	159.04	-37.57	6.68

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-79.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	211.86	0.06	0.01
4	0.00	3	SLE F	1	19	0.00	-82.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	218.65	0.06	0.01
7	1.79	4	SLE Q	5	19	35.89	54.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	144.00	0.04	0.01
8	1.79	3	SLE F	5	19	35.89	56.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	150.50	0.04	0.01
11	3.23	4	SLE Q	9	19	35.89	-59.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	159.04	0.05	0.01
12	3.23	3	SLE F	9	19	35.89	-65.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	174.48	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	600.09	2.50	7185.75	7873.13	7185.75	11.974
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	600.09	2.50	7185.75	7873.13	7185.75	11.974
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	270.65	2.50	7185.75	7873.13	7185.75	26.550

Travata n. 7011

Nodi: 756 -1976 -2063 773 -2271 702

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	35.43	3.08	3.08	3.08	3.08	-572.70	-1506.47	2.630

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _e sup <daN/cm>	σ _e inf <daN/cm>	σ _c <daN/cm>
1.90	2	SLE R	5	35.43	3.08	3.08	-421.71	1118.43	-264.23	46.94
1.90	4	SLE Q	5	35.43	3.08	3.08	-352.58	935.08	-220.91	39.25

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	35.43	-352.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	935.08	0.27	0.04
4	1.90	3	SLE F	5	19	35.43	-372.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	987.46	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	514.48	2.50	7185.75	7873.13	7185.75	13.967
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	531.45	2.50	7185.75	7873.13	7185.75	13.521

Travata n. 7012

Nodi: 785 -2468 797 737

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.
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-490.20	-2142.71	4.371

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
4.822	SLE R	3	332.00	3.08	3.08	-354.71	646.14	-173.28	22.80	
4.824	SLE Q	3	332.00	3.08	3.08	-283.86	517.09	-138.67	18.25	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	4.824	SLE	Q	3	18	332.00	-283.86	28.00	114.00	0.50	14.00	102.12	3.08	101.43	517.09	0.15	0.03
4	4.823	SLE	F	3	18	332.00	-304.07	28.00	114.00	0.50	14.00	102.12	3.08	101.43	553.90	0.16	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	2351.01	2.50	7619.38	26714.30	7619.38	3.241
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	463.58	2.50	5079.58	10017.90	5079.58	10.957
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	492.36	2.50	5079.58	10017.90	5079.58	10.317

Travata n. 7013

Nodi: 757 -1977 -2064 774 -2272 703

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.
1.901	SLU	5	35.38	6.03	4.02	6.03	4.02	4.02	-8133.21	-9551.64	1.174

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
1.902	SLE R	5	35.38	6.03	4.02	-6009.65	2352.02	-654.16	59.92	
1.904	SLE Q	5	35.38	6.03	4.02	-5469.07	2140.46	-595.32	54.53	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.904	SLE	Q	5	30	35.38	-5469.07	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2140.46	0.88	0.18
4	1.903	SLE	F	5	30	35.38	-5623.52	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2200.91	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	4000.36	2.50	10241.80	20904.00	10241.80	2.560
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5026.38	2.50	10241.80	20904.00	10241.80	2.038

Travata n. 7016

Nodi: 758 -1978 -2065 775 -2273 704

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.
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Relazione di calcolo

<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5		35.41	6.03	4.02	6.03	4.02	-8134.51	-9551.64	1.174

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.41	6.03	4.02	-6010.11	2352.21	-654.21	59.93
1.904	SLE Q		5	35.41	6.03	4.02	-5470.32	2140.95	-595.46	54.55

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q		5	30	35.41	-5470.32	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2140.95	0.88	0.18
4	1.903	SLE F		5	30	35.41	-5624.55	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2201.31	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>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	4009.67	2.50	10241.80	20904.00	10241.80	2.554
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5019.97	2.50	10241.80	20904.00	10241.80	2.040

Travata n. 7017

Nodi: 788 -2472 798 738

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	-380.57	-2142.71	5.630

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.822	SLE R		3	332.00	3.08	3.08	-277.18	504.91	-135.41	17.82
4.824	SLE Q		3	332.00	3.08	3.08	-218.07	397.25	-106.53	14.02

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.824	SLE Q		3	18	332.00	-218.07	28.00	114.00	0.50	14.00	102.12	3.08	101.43	397.25	0.12	0.02
4	4.823	SLE F		3	18	332.00	-234.97	28.00	114.00	0.50	14.00	102.12	3.08	101.43	428.02	0.12	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	1399.77	2.50	7619.38	26714.30	7619.38	5.443
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	382.04	2.50	5079.58	10017.90	5079.58	13.296
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	410.82	2.50	5079.58	10017.90	5079.58	12.364

Travata n. 7018

Nodi: 759 -1979 -2066 776 -2274 705

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	35.44	3.08	3.08	3.08	3.08	3.08	-585.20	-1506.47	2.574

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R		5	35.44	3.08	3.08	-430.02	1140.48	-269.44	47.87
1.904	SLE Q		5	35.44	3.08	3.08	-361.53	958.83	-226.52	40.25

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	35.44	-361.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	958.83	0.28	0.05
4	1.90	3	SLE F	5	19	35.44	-381.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1010.72	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	512.38	2.50	7185.75	7873.13	7185.75	14.024
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	529.34	2.50	7185.75	7873.13	7185.75	13.575

Travata n. 7019

Nodi: 760 -1926 -2000 -2089 -2203 706

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	38.00	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 <cmq>	AfE I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
1.90	2	SLE R	5	38.00	3.08	3.08	-516.96	1371.04	-323.91	57.55
1.90	4	SLE Q	5	38.00	3.08	3.08	-434.15	1151.44	-272.03	48.33

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	38.00	-434.15	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1151.44	0.38	0.06
4	1.90	3	SLE F	5	19	38.00	-457.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1214.17	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	157.11	2.50	7185.75	7873.13	7185.75	45.736
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	174.08	2.50	7185.75	7873.13	7185.75	41.279

Travata n. 7044

Nodi: 757 -1840 -1841 -1842 -1843 -1844 -1845 -1846 758

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	-187.83	-1506.47	8.021
1.27	1	SLU	4	18.12	3.08	3.08	3.08	3.08	216.80	1506.47	6.949
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-187.58	-1506.47	8.031

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
0.00	2	SLE R	1	0.00	3.08	3.08	-142.74	378.58	-89.44	15.89
0.00	4	SLE Q	1	0.00	3.08	3.08	-134.40	356.45	-84.21	14.96
1.27	2	SLE R	4	18.12	3.08	3.08	163.13	-102.21	432.64	18.16
1.27	4	SLE Q	4	18.12	3.08	3.08	149.05	-93.39	395.29	16.59
2.90	2	SLE R	8	36.25	3.08	3.08	-142.58	378.14	-89.33	15.87
2.90	4	SLE Q	8	36.25	3.08	3.08	-134.18	355.85	-84.07	14.94

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-134.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	356.45	0.10	0.02
4	0.00	3	SLE F	1	19	0.00	-136.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	362.77	0.11	0.02
7	1.27	4	SLE Q	4	19	18.12	149.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	395.29	0.12	0.02
8	1.27	3	SLE F	4	19	18.12	153.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	405.96	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-134.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	355.85	0.10	0.02

Relazione di calcolo

12	2.90	3	SLE F	8	19	36.25	-136.57	28.00	134.00	0.50	14.00	93.58	3.08	82.65	362.21	0.11	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	879.49	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	579.77	2.50	7185.75	7873.13	7185.75	12.394
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	878.50	2.50	7185.75	7873.13	7185.75	8.180

Travata n. 7045

Nodi: 775 -2158 -2159 -2160 -2161 -2162 -2163 -2164 -2165 776

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	-118.04	-1506.47	12.763
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	88.66	1506.47	16.991
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-146.24	-1506.47	10.302

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
0.00	2	SLE R	1	0.00	3.08	3.08	-84.04	222.90	-52.66	9.36
0.00	4	SLE Q	1	0.00	3.08	3.08	-62.98	167.03	-39.46	7.01
1.44	2	SLE R	5	0.00	3.08	3.08	61.70	-38.66	163.64	6.87
1.44	4	SLE Q	5	0.00	3.08	3.08	53.39	-33.45	141.60	5.94
3.25	2	SLE R	9	36.11	3.08	3.08	-104.86	278.10	-65.70	11.67
3.25	4	SLE Q	9	36.11	3.08	3.08	-92.90	246.39	-58.21	10.34

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-62.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	167.03	0.05	0.01
4	0.00	3	SLE F	1	19	0.00	-68.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	182.97	0.05	0.01
7	1.44	4	SLE Q	5	19	0.00	53.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	141.60	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	55.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	147.90	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	-92.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	246.39	0.07	0.01
12	3.25	3	SLE F	9	19	36.11	-96.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	255.47	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	264.31	2.50	7185.75	7873.13	7185.75	27.187
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	595.88	2.50	7185.75	7873.13	7185.75	12.059
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	595.88	2.50	7185.75	7873.13	7185.75	12.059

Travata n. 7060

Nodi: 798 654 -1792 638

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.
3.32	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-3204.97	-6639.53	2.072

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	My <daNm>	σ _f sup <daN/cm>	σ _f inf <daN/cm>	σ _c <daN/cm>
3.32	2	SLE R	3	52.50	3.08	3.08	-2285.50	1302.54	-302.80	26.64
3.32	4	SLE Q	3	52.50	3.08	3.08	-1662.69	947.59	-220.28	19.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	3.32	4	SLE Q	3	16	52.50	-1662.69	28.00	94.00	0.50	14.00	119.66	3.08	140.00	947.59	0.28	0.06
4	3.32	3	SLE F	3	16	52.50	-1840.29	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1048.81	0.31	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	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1570.51	2.50	7619.38	26714.30	7619.38	4.852
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	1437.17	2.50	7619.38	26714.30	7619.38	5.302
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	4142.01	2.50	15238.80	26714.30	15238.80	3.679

Travata n. 7087

Nodi: 759 -1847 -1848 -1849 -1850 -1851 -1852 -1853 -1854 760

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.
0.001	SLU	1	1	0.00	3.08	3.08	3.08	3.08	26.48	1506.47	56.901
1.621	SLU	5	5	18.06	3.08	3.08	3.08	3.08	127.22	1506.47	11.842
3.251	SLU	9	9	36.11	3.08	3.08	3.08	3.08	30.72	1506.47	49.045

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
0.002	SLE R	1	1	0.00	3.08	3.08	19.62	-12.29	52.04	2.18
0.004	SLE Q	1	1	0.00	3.08	3.08	17.10	-10.71	45.35	1.90
1.622	SLE R	5	5	18.06	3.08	3.08	92.68	-58.07	245.81	10.32
1.624	SLE Q	5	5	18.06	3.08	3.08	76.96	-48.22	204.11	8.57
3.252	SLE R	9	9	36.11	3.08	3.08	22.69	-14.22	60.17	2.53
3.254	SLE Q	9	9	36.11	3.08	3.08	19.83	-12.43	52.60	2.21

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	17.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	45.35	0.01	0.00
4	0.003	SLE	F	1	19	0.00	17.82	28.00	134.00	0.50	14.00	93.58	3.08	82.65	47.26	0.01	0.00
7	1.624	SLE	Q	5	19	18.06	76.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	204.11	0.06	0.01
8	1.623	SLE	F	5	19	18.06	81.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	216.01	0.06	0.01
11	3.254	SLE	Q	9	19	36.11	19.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.60	0.02	0.00
12	3.253	SLE	F	9	19	36.11	20.65	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.76	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	197.45	2.50	7185.75	7873.13	7185.75	36.393
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	76.81	2.50	7185.75	7873.13	7185.75	93.557
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	182.00	2.50	7185.75	7873.13	7185.75	39.481

Travata n. 8012

Nodi: 797 853 -2555 837

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.
3.321	SLU	3	3	52.50	6.16	3.08	6.16	3.08	-2170.46	-13043.50	6.010

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
3.322	SLE R	3	3	52.50	6.16	3.08	-1555.94	455.10	-176.64	14.32
3.324	SLE Q	3	3	52.50	6.16	3.08	-1036.75	303.24	-117.70	9.54

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c off} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	3.324	SLE Q	3	16	52.50	-1036.75	28.00	31.33	0.50	14.00	87.83	6.16	140.00		303.24	0.09	0.01
4	3.323	SLE F	3	16	52.50	-1185.05	28.00	31.33	0.50	14.00	87.83	6.16	140.00		346.62	0.10	0.02

Relazione di calcolo

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	1374.48	2.50	7619.38	26714.30	7619.38	5.543
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1374.48	2.50	7619.38	26714.30	7619.38	5.543
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	2831.26	2.50	15238.80	26714.30	15238.80	5.382

Travata n. 9001

Nodi: 955 -2597 -2598 -2599 -2600 -2601 -2602 -2603 -2604 956

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.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	29.53	1506.47	51.019
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	135.19	1506.47	11.143
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	32.46	1506.47	46.415

Stato limite d'esercizio - Verifiche tensionali

Xg<m>	CC	TCC	El	X<cm>	AfE S<cmq>	AfE I<cmq>	My<daNm>	σ _ε sup<daN/cmq>	σ _ε inf<daN/cmq>	σ _c <daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	21.83	-13.68	57.89	2.43
0.004	SLE	Q	1	0.00	3.08	3.08	19.23	-12.05	51.00	2.14
1.442	SLE	R	5	0.00	3.08	3.08	98.29	-61.58	260.68	10.94
1.444	SLE	Q	5	0.00	3.08	3.08	81.88	-51.30	217.15	9.11
3.232	SLE	R	9	35.89	3.08	3.08	23.85	-14.95	63.26	2.66
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<m>	CC	TCC	El	Sez.	X<cm>	My<daNm>	c<mm>	s<mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk<mm>
3	0.004	SLE	Q	1	19	0.00	19.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.00	0.01	0.00
4	0.003	SLE	F	1	19	0.00	19.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.97	0.02	0.00
7	1.444	SLE	Q	5	19	0.00	81.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	217.15	0.06	0.01
8	1.443	SLE	F	5	19	0.00	86.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	229.57	0.07	0.01
11	3.234	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	3.233	SLE	F	9	19	35.89	21.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.11	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	182.10	2.50	7185.75	7873.13	7185.75	39.461
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	78.94	2.50	7185.75	7873.13	7185.75	91.029
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	199.58	2.50	7185.75	7873.13	7185.75	36.004

Travata n. 9002

Nodi: 973 -2915 -2916 -2917 -2918 -2919 -2920 -2921 -2922 974

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.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-113.78	-1506.47	13.240
1.791	SLU	5	35.89	3.08	3.08	3.08	3.08	3.08	92.15	1506.47	16.349
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	-110.98	-1506.47	13.574

Stato limite d'esercizio - Verifiche tensionali

Xg<m>	CC	TCC	El	X<cm>	AfE S<cmq>	AfE I<cmq>	My<daNm>	σ _ε sup<daN/cmq>	σ _ε inf<daN/cmq>	σ _c <daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	-81.80	216.95	-51.25	9.11
0.004	SLE	Q	1	0.00	3.08	3.08	-75.16	199.34	-47.09	8.37
1.792	SLE	R	5	35.89	3.08	3.08	64.23	-40.24	170.34	7.15
1.794	SLE	Q	5	35.89	3.08	3.08	55.47	-34.75	147.11	6.17
3.232	SLE	R	9	35.89	3.08	3.08	-78.87	209.16	-49.41	8.78
3.234	SLE	Q	9	35.89	3.08	3.08	-57.90	153.55	-36.28	6.45

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-75.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	199.34	0.06	0.01
4	0.00	3	SLE F	1	19	0.00	-77.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	204.47	0.06	0.01
7	1.79	4	SLE Q	5	19	35.89	55.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	147.11	0.04	0.01
8	1.79	3	SLE F	5	19	35.89	57.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	153.73	0.04	0.01
11	3.23	4	SLE Q	9	19	35.89	-57.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	153.55	0.04	0.01
12	3.23	3	SLE F	9	19	35.89	-63.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	169.42	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	611.53	2.50	7185.75	7873.13	7185.75	11.751
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	611.53	2.50	7185.75	7873.13	7185.75	11.751
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	269.52	2.50	7185.75	7873.13	7185.75	26.661

Travata n. 9011

Nodi: 956 -2741 -2828 973 -3036 902

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.
1.901	1	SLU	5	35.43	3.08	3.08	3.08	3.08	-574.94	-1506.47	2.620

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
1.902		SLE R	5	35.43	3.08	3.08	-423.30	1122.64	-265.22	47.12
1.904		SLE Q	5	35.43	3.08	3.08	-353.74	938.17	-221.64	39.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	35.43	-353.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	938.17	0.27	0.04
4	1.90	3	SLE F	5	19	35.43	-373.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	990.86	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	523.76	2.50	7185.75	7873.13	7185.75	13.720
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	540.72	2.50	7185.75	7873.13	7185.75	13.289

Travata n. 9012

Nodi: 985 -3233 997 937

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 <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
4.821	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-468.28	-2142.71	4.576

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
4.822		SLE R	3	332.00	3.08	3.08	-339.42	618.29	-165.81	21.82
4.824		SLE Q	3	332.00	3.08	3.08	-271.54	494.63	-132.65	17.45

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	4.82	4	SLE Q	3	18	332.00	-271.54	28.00	114.00	0.50	14.00	102.12	3.08	101.43	494.63	0.14	0.03
4	4.82	3	SLE F	3	18	332.00	-290.90	28.00	114.00	0.50	14.00	102.12	3.08	101.43	529.91	0.15	0.03

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	1.50	1.50	ø6/32 2 br.	1.77	0.16	2341.41	2.50	7619.38	26714.30	7619.38	3.254
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	452.23	2.50	5079.58	10017.90	5079.58	11.232
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	481.01	2.50	5079.58	10017.90	5079.58	10.560

Travata n. 9013

Nodi: 957 -2742 -2829 974 -3037 903

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 <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	1	SLU	5	35.38	6.03	4.02	6.03	4.02	-8140.72	-9551.64	1.173

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.902	2	SLE R	5	35.38	6.03	4.02	-6015.12	2354.17	-654.76	59.98
1.904	4	SLE Q	5	35.38	6.03	4.02	-5474.55	2142.60	-595.91	54.59

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm q>	ε _{sm}	Wk <mm>
3	1.904	SLE Q	5	30	35.38	-5474.55	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2142.60	0.88	0.19	
4	1.903	SLE F	5	30	35.38	-5629.00	27.00	116.00	0.50	16.00	123.63	6.03	262.50	2203.05	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	4003.45	2.50	10241.80	20904.00	10241.80	2.558
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5039.60	2.50	10241.80	20904.00	10241.80	2.032

Travata n. 9016

Nodi: 958 -2743 -2830 975 -3038 904

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 <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	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-8139.10	-9551.64	1.174

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.902	2	SLE R	5	35.41	6.03	4.02	-6013.65	2353.59	-654.60	59.96
1.904	4	SLE Q	5	35.41	6.03	4.02	-5474.07	2142.41	-595.86	54.58

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	30	35.41	-5474.07	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2142.41	0.88	0.18
4	1.903	SLE F	5	30	35.41	-5628.24	27.00	116.00	0.50	16.00	123.63	6.03	262.50		2202.75	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	4011.57	2.50	10241.80	20904.00	10241.80	2.553
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	5029.36	2.50	10241.80	20904.00	10241.80	2.036

Travata n. 9017

Nodi: 988 -3237 998 938

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>
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	-332.29	-2142.71	6.448

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
4.82	2	SLE R	3	332.00	3.08	3.08	-244.53	445.44	-119.46	15.72
4.82	4	SLE Q	3	332.00	3.08	3.08	-189.26	344.76	-92.46	12.16

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-189.26	28.00	114.00	0.50	14.00	102.12	3.08	101.43	344.76	0.10	0.02
4	4.82	3	SLE F	3	18	332.00	-205.06	28.00	114.00	0.50	14.00	102.12	3.08	101.43	373.54	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>		<cm>/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	1922.29	2.50	7619.38	26714.30	3.964
1	SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	361.74	2.50	5079.58	10017.90	14.042
1	SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	390.52	2.50	5079.58	10017.90	13.007

Travata n. 9018

Nodi: 959 -2744 -2831 976 -3039 905

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	35.44	3.08	3.08	3.08	3.08	-586.41	-1506.47	2.569

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cm>	<cm>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
1.90	2	SLE R	5	35.44	3.08	3.08	-430.87	1142.72	-269.97	47.96
1.90	4	SLE Q	5	35.44	3.08	3.08	-362.08	960.28	-226.87	40.31

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cm>	<cm>	<daN/cm>		<mm>
3	1.90	4	SLE Q	5	19	35.44	-362.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	960.28	0.28	0.05
4	1.90	3	SLE F	5	19	35.44	-381.73	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1012.40	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>		<cm>/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	515.86	2.50	7185.75	7873.13	13.930
1	SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	532.83	2.50	7185.75	7873.13	13.486

Travata n. 9019

Nodi: 960 -2694 -2765 -2854 -2963 906

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	38.00	3.08	3.08	3.08	3.08	-694.41	-1506.47	2.169

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cm>	<cm>	<daNm>			

Relazione di calcolo

								<daN/cmq>	<daN/cmq>	<daN/cmq>
1.902	SLE R	5	38.00	3.08	3.08	-513.47		1361.79	-321.72	57.16
1.904	SLE Q	5	38.00	3.08	3.08	-431.34		1143.97	-270.26	48.02

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.904	SLE Q	5	19	38.00	-431.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1143.97	0.37	0.06	
4	1.903	SLE F	5	19	38.00	-454.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	1206.19	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	141.64	2.50	7185.75	7873.13	7185.75	50.731
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	158.61	2.50	7185.75	7873.13	7185.75	45.305

Travata n. 9044

Nodi: 957 -2605 -2606 -2607 -2608 -2609 -2610 -2611 958

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/presoflessione

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	-187.58	-1506.47	8.031
1.271	SLU	4	18.12	3.08	3.08	3.08	3.08	3.08	217.28	1506.47	6.933
2.901	SLU	8	36.25	3.08	3.08	3.08	3.08	3.08	-187.24	-1506.47	8.046

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	-142.55	378.05	-89.31	15.87	
0.004	SLE Q	1	0.00	3.08	3.08	-134.15	355.79	-84.06	14.93	
1.272	SLE R	4	18.12	3.08	3.08	163.49	-102.44	433.60	18.20	
1.274	SLE Q	4	18.12	3.08	3.08	149.51	-93.68	396.51	16.64	
2.902	SLE R	8	36.25	3.08	3.08	-142.34	377.50	-89.18	15.85	
2.904	SLE Q	8	36.25	3.08	3.08	-133.87	355.04	-83.88	14.90	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm<sup>q> <th>ε_{sm}</th> <th>Wk <mm></th>	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-134.15	28.00	134.00	0.50	14.00	93.58	3.08	82.65	355.79	0.10	0.02
4	0.003	SLE	F	1	19	0.00	-136.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	362.15	0.11	0.02
7	1.274	SLE	Q	4	19	18.12	149.51	28.00	134.00	0.50	14.00	93.58	3.08	82.65	396.51	0.12	0.02
8	1.273	SLE	F	4	19	18.12	153.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	407.11	0.12	0.02
11	2.904	SLE	Q	8	19	36.25	-133.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	355.04	0.10	0.02
12	2.903	SLE	F	8	19	36.25	-136.29	28.00	134.00	0.50	14.00	93.58	3.08	82.65	361.45	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	879.62	2.50	7185.75	7873.13	7185.75	8.169
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	579.90	2.50	7185.75	7873.13	7185.75	12.391
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	878.49	2.50	7185.75	7873.13	7185.75	8.180

Travata n. 9045

Nodi: 975 -2923 -2924 -2925 -2926 -2927 -2928 -2929 -2930 976

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/presoflessione

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	-116.66	-1506.47	12.914
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	89.14	1506.47	16.901
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	-143.00	-1506.47	10.535

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
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Relazione di calcolo

<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.002	SLE	R	1	0.00	3.08	3.08	-82.87	219.79	-51.93	9.23
0.004	SLE	Q	1	0.00	3.08	3.08	-61.08	162.00	-38.27	6.80
1.442	SLE	R	5	0.00	3.08	3.08	62.09	-38.90	164.68	6.91
1.444	SLE	Q	5	0.00	3.08	3.08	53.80	-33.71	142.68	5.99
3.252	SLE	R	9	36.11	3.08	3.08	-102.67	272.29	-64.33	11.43
3.254	SLE	Q	9	36.11	3.08	3.08	-92.01	244.02	-57.65	10.24

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.004	SLE	Q	1	19	0.00	-61.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	162.00	0.05	0.01
4	0.003	SLE	F	1	19	0.00	-67.29	28.00	134.00	0.50	14.00	93.58	3.08	82.65	178.47	0.05	0.01
7	1.444	SLE	Q	5	19	0.00	53.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	142.68	0.04	0.01
8	1.443	SLE	F	5	19	0.00	56.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	148.97	0.04	0.01
11	3.254	SLE	Q	9	19	36.11	-92.01	28.00	134.00	0.50	14.00	93.58	3.08	82.65	244.02	0.07	0.01
12	3.253	SLE	F	9	19	36.11	-95.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	252.12	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	263.55	2.50	7185.75	7873.13	7185.75	27.265
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	601.88	2.50	7185.75	7873.13	7185.75	11.939
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	601.88	2.50	7185.75	7873.13	7185.75	11.939

Travata n. 9060

Nodi: 998 854 -2557 838

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>	
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	3.08	-2774.71	-6639.53	2.393

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _ε sup	σ _ε inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
3.322	SLE	R	3	52.50	3.08	3.08	-1987.62	1132.78	-263.33	23.17
3.324	SLE	Q	3	52.50	3.08	3.08	-1405.34	800.92	-186.19	16.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	3.324	SLE	Q	3	16	52.50	-1405.34	28.00	94.00	0.50	14.00	119.66	3.08	140.00	800.92	0.23	0.05
4	3.323	SLE	F	3	16	52.50	-1571.42	28.00	94.00	0.50	14.00	119.66	3.08	140.00	895.58	0.26	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	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1273.32	2.50	7619.38	26714.30	7619.38	5.984
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2032.52	2.50	7619.38	26714.30	7619.38	3.749
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	3515.79	2.50	15238.80	26714.30	15238.80	4.334

Travata n. 9087

Nodi: 959 -2612 -2613 -2614 -2615 -2616 -2617 -2618 -2619 960

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>	
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	27.14	1506.47	55.517
1.621	SLU	5	18.06	3.08	3.08	3.08	3.08	3.08	128.31	1506.47	11.740
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	30.60	1506.47	49.232

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _ε sup	σ _ε inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>

Relazione di calcolo

0.00	2	SLE R	1	0.00	3.08	3.08	20.09	-12.59	53.28	2.24
0.00	4	SLE Q	1	0.00	3.08	3.08	17.44	-10.93	46.26	1.94
1.62	2	SLE R	5	18.06	3.08	3.08	93.44	-58.55	247.81	10.40
1.62	4	SLE Q	5	18.06	3.08	3.08	77.52	-48.57	205.59	8.63
3.25	2	SLE R	9	36.11	3.08	3.08	22.59	-14.16	59.92	2.52
3.25	4	SLE Q	9	36.11	3.08	3.08	19.76	-12.38	52.41	2.20

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	17.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	46.26	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	18.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	48.26	0.01	0.00
7	1.62	4	SLE Q	5	19	18.06	77.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	205.59	0.06	0.01
8	1.62	3	SLE F	5	19	18.06	82.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	217.64	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	19.76	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.41	0.02	0.00
12	3.25	3	SLE F	9	19	36.11	20.57	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.55	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	198.14	2.50	7185.75	7873.13	7185.75	36.266
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	77.50	2.50	7185.75	7873.13	7185.75	92.722
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	181.78	2.50	7185.75	7873.13	7185.75	39.530

Travata n. 2012

Nodi: 253 -7126 -251 -7122 237

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>	
1.25	1	SLU	4	-6.25	3.08	1.57	3.08	1.57	-2296.53	-6638.54	2.891

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.25	2	SLE R	4	-6.25	3.08	1.57	-1655.99	949.92	-241.21	20.87
1.25	4	SLE Q	4	-6.25	3.08	1.57	-1280.00	734.24	-186.44	16.13

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.25	4	SLE Q	4	16	-6.25	-1280.00	28.00	94.00	0.50	14.00	119.66	3.08	140.00	734.24	0.21	0.04
4	1.25	3	SLE F	4	16	-6.25	-1387.41	28.00	94.00	0.50	14.00	119.66	3.08	140.00	795.86	0.23	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	0.04	1.25	1.21	ø6/16 2 br.	3.53	0.16	1092.54	2.50	15238.80	26714.30	15238.80	13.948

Travate n. 3003 5003 7003 9003 11003 13003 15003 17003 19003

3003 (a) Nodi: 301 -790 -791 -792 -793 -794 -795 -796 -797 302 -798 -799 -800 -801 -802 -803 -804 -805 303 -806 -807 -808 -809 -810 -811 -812 304 -813 -814 -815 -816 -817 -818 -819 -820 305 -821 -822 -823 -824 -825 -826 -827 -828 306 307

5003 (b) Nodi: 501 -1564 -1565 -1566 -1567 -1568 -1569 -1570 -1571 502 -1572 -1573 -1574 -1575 -1576 -1577 -1578 -1579 503 -1580 -1581 -1582 -1583 -1584 -1585 -1586 504 -1587 -1588 -1589 -1590 -1591 -1592 -1593 -1594 505 -1595 -1596 -1597 -1598 -1599 -1600 -1601 -1602 506 507

7003 (c) Nodi: 701 -2329 -2330 -2331 -2332 -2333 -2334 -2335 -2336 702 -2337 -2338 -2339 -2340 -2341 -2342 -2343 -2344 703 -2345 -2346 -2347 -2348 -2349 -2350 -2351 704 -2352 -2353 -2354 -2355 -2356 -2357 -2358 -2359 705 -2360 -2361 -2362 -2363 -2364 -2365 -2366 -2367 706 707

9003 (d) Nodi: 901 -3094 -3095 -3096 -3097 -3098 -3099 -3100 -3101 902 -3102 -3103 -3104 -3105 -3106 -3107 -3108 -3109 903 -3110 -3111 -3112 -3113 -3114 -3115 -3116 904 -3117 -3118 -3119 -3120 -3121 -3122 -3123 -3124 905 -3125 -3126 -3127 -3128 -3129 -3130 -3131 -3132 906 907

11003 (e) Nodi: 1101 -3859 -3860 -3861 -3862 -3863 -3864 -3865 -3866 1102 -3867 -3868 -3869 -3870 -3871 -3872 -3873 -3874 1103 -3875 -3876 -3877 -3878 -3879 -3880 -3881 1104 -3882 -3883 -3884 -3885 -3886 -3887 -3888 -3889 1105 -3890 -3891 -3892 -3893 -3894 -3895 -3896 -3897 1106 1107

13003 (f) Nodi: 1301 -4624 -4625 -4626 -4627 -4628 -4629 -4630 -4631 1302 -4632 -4633 -4634 -4635 -4636 -4637 -4638 -4639 1303 -4640 -4641 -4642 -4643 -4644 -4645 -4646 1304 -4647 -4648 -4649 -4650 -4651 -4652 -4653 -4654 1305 -4655 -4656 -4657 -4658 -4659 -4660 -4661 -4662 1306 1307

15003 (g) Nodi: 1501 -5389 -5390 -5391 -5392 -5393 -5394 -5395 -5396 1502 -5397 -5398 -5399 -5400 -5401 -5402 -5403 -5404 1503 -5405 -5406 -5407 -5408 -5409 -5410 -5411 1504 -5412 -5413 -5414 -5415 -5416 -5417 -5418 -5419 1505 -5420 -5421 -5422 -5423 -5424 -5425 -5426 -5427 1506 1507

Relazione di calcolo

17003 (h) Nodi: 1701 -6155 -6156 -6157 -6158 -6159 -6160 -6161 -6162 1702 -6163 -6164 -6165 -6166 -6167 -6168 -6169 -6170 1703 -6171 -6172 -6173 -6174 -6175 -6176 -6177 1704 -6178 -6179 -6180 -6181 -6182 -6183 -6184 -6185 1705 -6186 -6187 -6188 -6189 -6190 -6191 -6192 -6193 1706 1707
19003 (i) Nodi: 1901 -6920 -6921 -6922 -6923 -6924 -6925 -6926 -6927 1902 -6928 -6929 -6930 -6931 -6932 -6933 -6934 -6935 1903 -6936 -6937 -6938 -6939 -6940 -6941 -6942 1904 -6943 -6944 -6945 -6946 -6947 -6948 -6949 -6950 1905 -6951 -6952 -6953 -6954 -6955 -6956 -6957 -6958 1906 1907

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	InEl	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.201	SLU	d	1	20.00	8.17	10.24	8.17	10.24	-4702.10	-5784.59	1.230
1.791	SLU	i	5	35.89	2.01	10.24	2.01	10.24	3013.02	7055.12	2.342
3.031	SLU	a	9	15.89	15.90	10.24	15.90	10.24	-3618.51	-10543.20	2.914
3.431	SLU	d	10	20.00	15.90	10.24	15.90	10.24	-3279.57	-10543.20	3.215
4.671	SLU	i	14	0.00	2.01	10.24	2.01	10.24	1592.21	7055.12	4.431
6.261	SLU	a	18	15.89	12.88	14.39	12.88	14.39	-2721.22	-8691.98	3.194
6.661	SLU	c	19	20.00	12.88	14.39	12.88	14.39	-2489.66	-8691.98	3.491
7.911	SLU	f	23	0.00	2.01	5.15	2.01	5.15	1592.07	3802.97	2.389
9.161	SLU	a	26	16.25	12.88	14.39	12.88	14.39	-2531.44	-8691.98	3.434
9.561	SLU	a	27	20.00	12.88	14.39	12.88	14.39	-2754.60	-8691.98	3.155
11.171	SLU	i	31	36.11	2.01	10.24	2.01	10.24	1507.47	7055.12	4.680
12.411	SLU	d	35	16.11	16.37	17.44	16.37	17.44	-3295.15	-10827.40	3.286
12.811	SLU	a	36	20.00	16.37	17.44	16.37	17.44	-3528.36	-10827.40	3.069
14.051	SLU	i	40	0.00	2.01	7.19	2.01	7.19	2569.84	5121.43	1.993
15.321	SLU	d	43	18.06	2.01	7.19	2.01	7.19	-2192.67	-1940.14	0.885
15.661	SLU	d	44	16.11	10.56	9.55	10.56	9.55	-4356.74	-7259.71	1.666
16.061	SLU	a	45	20.00	10.56	9.55	10.56	9.55	-3688.60	-7259.71	1.968
17.361	SLU	i	45	150.00	2.01	4.93	2.01	4.93	2656.58	3654.38	1.376
18.981	SLU	h	45	312.50	9.80	4.93	9.80	4.93	-4265.21	-6787.31	1.591

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	InEl	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
0.202	SLE	R d	1	20.00	8.17	10.24	-3363.59	2240.63	-302.46	55.07
0.204	SLE	Q d	1	20.00	8.17	10.24	-2757.12	1836.63	-247.92	45.14
1.792	SLE	R i	5	35.89	2.01	10.24	2147.67	-239.34	1145.98	34.97
1.794	SLE	Q i	5	35.89	2.01	10.24	1689.89	-188.33	901.71	27.52
3.032	SLE	R a	9	15.89	15.90	10.24	-2565.55	901.65	-251.69	32.61
3.034	SLE	Q a	9	15.89	15.90	10.24	-2187.38	768.75	-214.59	27.80
3.432	SLE	R d	10	20.00	15.90	10.24	-2333.87	820.23	-228.96	29.66
3.434	SLE	Q d	10	20.00	15.90	10.24	-2080.76	731.27	-204.13	26.45
4.672	SLE	R i	14	0.00	2.01	10.24	1120.39	-124.86	597.84	18.24
4.674	SLE	Q h	14	0.00	2.01	10.24	938.49	-104.59	500.77	15.28
6.262	SLE	R a	18	15.89	12.88	14.39	-1919.02	826.13	-173.31	25.27
6.264	SLE	Q a	18	15.89	12.88	14.39	-1635.18	703.94	-147.67	21.53
6.662	SLE	R c	19	20.00	12.88	14.39	-1769.34	761.70	-159.79	23.30
6.664	SLE	Q b	19	20.00	12.88	14.39	-1520.87	654.73	-137.35	20.03
7.912	SLE	R f	23	0.00	2.01	5.15	1151.14	-101.36	1186.89	24.44
7.914	SLE	Q h	23	0.00	2.01	5.15	1022.42	-90.03	1054.17	21.71
9.162	SLE	R a	26	16.25	12.88	14.39	-1799.44	774.65	-162.51	23.70
9.164	SLE	Q a	26	16.25	12.88	14.39	-1551.90	668.09	-140.15	20.44
9.562	SLE	R a	27	20.00	12.88	14.39	-1943.31	836.59	-175.50	25.59
9.564	SLE	Q a	27	20.00	12.88	14.39	-1653.55	711.85	-149.33	21.78
11.172	SLE	R i	31	36.11	2.01	10.24	1058.81	-118.00	564.97	17.24
11.174	SLE	Q e	31	36.11	2.01	10.24	887.10	-98.86	473.35	14.44
12.412	SLE	R d	35	16.11	16.37	17.44	-2344.67	802.09	-204.80	27.47
12.414	SLE	Q d	35	16.11	16.37	17.44	-2093.43	716.14	-182.85	24.53
12.812	SLE	R a	36	20.00	16.37	17.44	-2507.32	857.73	-219.00	29.38
12.814	SLE	Q a	36	20.00	16.37	17.44	-2115.82	723.80	-184.81	24.79
14.052	SLE	R i	40	0.00	2.01	7.19	1834.38	-189.88	1372.26	34.10
14.054	SLE	Q h	40	0.00	2.01	7.19	1487.08	-153.93	1112.45	27.64
15.322	SLE	R d	43	18.06	2.01	7.19	-1556.73	3969.02	48.19	50.60
15.324	SLE	Q d	43	18.06	2.01	7.19	-1313.63	3349.23	40.66	42.70
15.662	SLE	R d	44	16.11	10.56	9.55	-3104.78	1615.47	-298.53	46.17
15.664	SLE	Q d	44	16.11	10.56	9.55	-2612.53	1359.35	-251.20	38.85
16.062	SLE	R a	45	20.00	10.56	9.55	-2599.55	1352.59	-249.95	38.66
16.064	SLE	Q a	45	20.00	10.56	9.55	-2289.48	1191.26	-220.13	34.05
17.362	SLE	R i	45	150.00	2.01	4.93	1860.43	-158.63	2000.50	40.21
17.364	SLE	Q h	45	150.00	2.01	4.93	1514.28	-129.12	1628.28	32.73
18.982	SLE	R h	45	312.50	9.80	4.93	-3006.45	1675.60	-313.18	48.18
18.984	SLE	Q h	45	312.50	9.80	4.93	-2496.79	1391.55	-260.09	40.01

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	InEl	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
22	0.204	SLE	Q d	1	28	20.00	-2757.12	29.50	132.57	0.50	11.82	148.12	8.17	615.94	1836.63	0.63	0.16

Relazione di calcolo

31	0.20	3	SLE F	d	1	28	20.00	-2929.37	29.50	132.57	0.50	11.82	148.12	8.17	615.94	1951.37	0.57	0.14
63	1.79	4	SLE Q	i	5	28	35.89	1689.89	28.75	134.29	0.50	13.04	132.04	10.24	585.43	901.71	0.26	0.06
72	1.79	3	SLE F	i	5	28	35.89	1812.93	28.75	134.29	0.50	13.04	132.04	10.24	585.43	967.37	0.28	0.06
91	3.03	4	SLE Q	a	9	28	15.89	-2187.38	29.14	71.38	0.50	12.34	101.74	15.90	559.67	768.75	0.24	0.04
100	3.03	3	SLE F	a	9	28	15.89	-2295.63	29.14	71.38	0.50	12.34	101.74	15.90	559.67	806.79	0.23	0.04
130	3.43	4	SLE Q	d	10	28	20.00	-2080.76	29.14	71.38	0.50	12.34	101.74	15.90	559.67	731.27	0.22	0.04
139	3.43	3	SLE F	d	10	28	20.00	-2153.30	29.14	71.38	0.50	12.34	101.74	15.90	559.67	756.77	0.22	0.04
170	4.67	4	SLE Q	h	14	28	0.00	938.49	28.75	134.29	0.50	13.04	132.04	10.24	585.43	500.77	0.15	0.03
179	4.67	3	SLE F	h	14	28	0.00	987.54	28.75	134.29	0.50	13.04	132.04	10.24	585.43	526.95	0.15	0.03
199	6.26	4	SLE Q	a	18	28	15.89	-1635.18	29.71	71.38	0.50	11.08	109.76	12.88	585.07	703.94	0.21	0.04
208	6.26	3	SLE F	a	18	28	15.89	-1716.25	29.71	71.38	0.50	11.08	109.76	12.88	585.07	738.84	0.22	0.04
236	6.66	4	SLE Q	b	19	28	20.00	-1520.87	29.71	71.38	0.50	11.08	109.76	12.88	585.07	654.73	0.19	0.04
245	6.66	3	SLE F	b	19	28	20.00	-1591.25	29.71	71.38	0.50	11.08	109.76	12.88	585.07	685.03	0.20	0.04
278	7.91	4	SLE Q	h	23	28	0.00	1022.42	30.50	134.29	0.50	9.11	173.96	5.15	638.75	1054.17	0.31	0.09
285	7.91	3	SLE F	f	23	28	0.00	1058.93	30.50	134.29	0.50	9.11	173.96	5.15	638.75	1091.81	0.32	0.09
307	9.16	4	SLE Q	a	26	28	16.25	-1551.90	29.71	71.38	0.50	11.08	109.76	12.88	585.07	668.09	0.19	0.04
316	9.16	3	SLE F	a	26	28	16.25	-1622.61	29.71	71.38	0.50	11.08	109.76	12.88	585.07	698.53	0.20	0.04
343	9.56	4	SLE Q	a	27	28	20.00	-1653.55	29.71	71.38	0.50	11.08	109.76	12.88	585.07	711.85	0.21	0.04
352	9.56	3	SLE F	a	27	28	20.00	-1736.28	29.71	71.38	0.50	11.08	109.76	12.88	585.07	747.46	0.22	0.04
383	11.17	4	SLE Q	e	31	28	36.11	887.10	28.75	134.29	0.50	13.04	132.04	10.24	585.43	473.35	0.14	0.03
392	11.17	3	SLE F	e	31	28	36.11	929.65	28.75	134.29	0.50	13.04	132.04	10.24	585.43	496.06	0.14	0.03
418	12.41	4	SLE Q	d	35	28	16.11	-2093.43	29.65	58.00	0.50	11.45	99.04	16.37	568.08	716.14	0.22	0.04
427	12.41	3	SLE F	d	35	28	16.11	-2165.49	29.65	58.00	0.50	11.45	99.04	16.37	568.08	740.79	0.22	0.04
451	12.81	4	SLE Q	a	36	28	20.00	-2115.82	29.65	58.00	0.50	11.45	99.04	16.37	568.08	723.80	0.22	0.04
460	12.81	3	SLE F	a	36	28	20.00	-2227.67	29.65	58.00	0.50	11.45	99.04	16.37	568.08	762.07	0.22	0.04
494	14.05	4	SLE Q	h	40	28	0.00	1487.08	29.43	156.33	0.50	11.74	159.16	7.19	614.45	1112.45	0.32	0.09
503	14.05	3	SLE F	h	40	28	0.00	1577.23	29.43	156.33	0.50	11.74	159.16	7.19	614.45	1179.89	0.34	0.09
680	15.32	4	SLE Q	d	43	28	18.06	-1313.63	31.00	313.33	0.50	8.00	336.66	2.01	690.30	3349.23	0.98	0.56
694	15.32	3	SLE F	d	43	28	18.06	-1383.18	31.00	313.33	0.50	8.00	336.66	2.01	690.30	3526.56	1.03	0.59
526	15.66	4	SLE Q	d	44	28	16.11	-2612.53	29.83	84.36	0.50	10.84	120.76	10.56	594.95	1359.35	0.46	0.09
535	15.66	3	SLE F	d	44	28	16.11	-2753.29	29.83	84.36	0.50	10.84	120.76	10.56	594.95	1432.59	0.42	0.09
559	16.06	4	SLE Q	a	45	28	20.00	-2289.48	29.83	85.09	0.50	10.84	120.76	10.56	594.95	1191.26	0.38	0.08
568	16.06	3	SLE F	a	45	28	20.00	-2378.18	29.83	85.09	0.50	10.84	120.76	10.56	594.95	1237.41	0.36	0.07
602	17.36	4	SLE Q	h	45	28	150.00	1514.28	30.29	154.33	0.50	9.52	184.37	4.93	641.70	1628.28	0.47	0.15
612	17.36	3	SLE F	i	45	28	150.00	1585.65	30.29	154.33	0.50	9.52	184.37	4.93	641.70	1705.02	0.50	0.16
638	18.98	4	SLE Q	h	45	28	312.50	-2496.79	30.00	84.36	0.50	10.40	123.04	9.80	594.10	1391.55	0.46	0.10
647	18.98	3	SLE F	h	45	28	312.50	-2639.39	30.00	84.36	0.50	10.40	123.04	9.80	594.10	1471.02	0.43	0.09

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	d	ø12/20 2 br.	11.31	1.00	12591.00	2.50	16254.70	30719.10	16254.70	1.291
1 SLU	0.46	2.77	2.31	d	ø6/20 2 br.	2.83	1.00	6144.22	2.50	4063.67	30719.10	4063.67	0.661
1 SLU	2.77	3.03	0.26	a	ø12/20 2 br.	11.31	1.00	10013.80	2.50	16254.70	30719.10	16254.70	1.623
1 SLU	3.43	3.69	0.26	d	ø12/20 2 br.	11.31	1.00	8791.50	2.50	16254.70	30719.10	16254.70	1.849
1 SLU	3.69	6.00	2.31	d	ø6/20 2 br.	2.83	1.00	4739.15	2.50	4063.67	30719.10	4063.67	0.857
1 SLU	6.00	6.26	0.26	h	ø12/20 2 br.	11.31	1.00	7607.94	2.50	16254.70	30719.10	16254.70	2.137
1 SLU	6.66	6.92	0.26	c	ø12/20 2 br.	11.31	1.00	7533.09	2.50	16254.70	30719.10	16254.70	2.158
1 SLU	6.92	8.90	1.98	a	ø6/20 2 br.	2.83	1.00	3937.36	2.50	4063.67	30719.10	4063.67	1.032
1 SLU	8.90	9.16	0.26	a	ø12/20 2 br.	11.31	1.00	7568.95	2.50	16254.70	30719.10	16254.70	2.148
1 SLU	9.56	9.82	0.26	h	ø12/20 2 br.	11.31	1.00	7591.81	2.50	16254.70	30719.10	16254.70	2.141
1 SLU	9.82	12.15	2.33	i	ø6/20 2 br.	2.83	1.00	4715.65	2.50	4063.67	30719.10	4063.67	0.862
1 SLU	12.15	12.41	0.26	d	ø12/20 2 br.	11.31	1.00	8629.53	2.50	16254.70	30719.10	16254.70	1.884
1 SLU	12.81	13.07	0.26	a	ø12/20 2 br.	11.31	1.00	9679.96	2.50	16254.70	30719.10	16254.70	1.679
1 SLU	13.07	15.40	2.33	d	ø6/20 2 br.	2.83	1.00	5847.10	2.50	4063.67	30719.10	4063.67	0.695
1 SLU	15.40	15.66	0.26	d	ø12/20 2 br.	11.31	1.00	11990.50	2.50	16254.70	30719.10	16254.70	1.356
1 SLU	16.06	16.32	0.26	a	---	0.00	1.00	7334.31				9754.76	1.330
1 SLU	16.32	18.65	2.33	h	ø12/20 2 br.	11.31	1.00	6200.39	2.50	16254.70	30719.10	16254.70	2.622
1 SLU	18.65	18.91	0.26	h	ø12/20 2 br.	11.31	1.00	7381.79	2.50	16254.70	30719.10	16254.70	2.202

Travate n. 3007 5007 7007 9007 11007 13007 15007 17007 19007

3007 (a) Nodi: 321 322 385 386 -926 387 388 323 324 325
5007 (b) Nodi: 521 522 585 586 -1700 587 588 523 524 525
7007 (c) Nodi: 721 722 785 786 -2465 787 788 723 724 725
9007 (d) Nodi: 921 922 985 986 -3230 987 988 923 924 925
11007 (e) Nodi: 1121 1122 1185 1186 -3995 1187 1188 1123 1124 1125
13007 (f) Nodi: 1321 1322 1385 1386 -4760 1387 1388 1323 1324 1325
15007 (g) Nodi: 1521 1522 1585 1586 -5525 1587 1588 1523 1524 1525
17007 (h) Nodi: 1721 1722 1785 1786 -6291 1787 1788 1723 1724 1725
19007 (i) Nodi: 1921 1922 1985 1986 -7056 1987 1988 1923 1924 1925

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/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>
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>	CCTCC	InEl	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

0.10	1	SLU	a	1	10.00	4.02	4.02	4.02	4.02	-3483.52	-3149.51	0.904
0.20	1	SLU	a	1	20.00	4.02	4.02	4.02	4.02	-3483.52	-3149.51	0.904
1.61	1	SLU	i	1	161.50	4.02	4.02	4.02	4.02	4993.64	3149.51	0.631
3.03	1	SLU	i	1	303.00	4.02	4.02	4.02	4.02	-6843.06	-3149.51	0.460
3.13	1	SLU	i	1	313.00	4.02	4.02	4.02	4.02	-6843.06	-3149.51	0.460
3.43	1	SLU	a	2	20.00	4.02	4.02	4.02	4.02	-4754.76	-3149.51	0.662
4.64	1	SLU	i	2	141.20	4.02	4.02	4.02	4.02	4169.26	3149.51	0.755
6.46	1	SLU	i	2	323.00	4.02	8.04	4.02	8.04	-5711.73	-3199.96	0.560
7.13	1	SLU	i	3	67.00	8.04	4.02	8.04	4.02	-12634.40	-16693.20	1.321
8.71	1	SLU	i	6	0.00	8.04	4.02	8.04	4.02	-13841.10	-16693.20	1.206
9.36	1	SLU	i	7	0.00	4.02	8.04	4.02	8.04	-5504.02	-3199.96	0.581
11.19	1	SLU	i	7	183.00	4.02	4.02	4.02	4.02	4558.51	3149.51	0.691
12.41	1	SLU	a	7	305.00	4.02	4.02	4.02	4.02	-4639.28	-3149.51	0.679
12.71	1	SLU	i	8	10.00	4.02	4.02	4.02	4.02	-5740.66	-3149.51	0.549
12.81	1	SLU	i	8	20.00	4.02	4.02	4.02	4.02	-5740.66	-3149.51	0.549
14.02	1	SLU	i	8	141.11	4.02	4.02	4.02	4.02	3371.76	3149.51	0.934
15.66	1	SLU	i	8	305.00	4.02	4.02	4.02	4.02	-5211.21	-3149.51	0.604
15.96	1	SLU	i	9	10.00	4.02	4.02	4.02	4.02	-5880.51	-3149.51	0.536
16.06	1	SLU	i	9	20.00	4.02	4.02	4.02	4.02	-5880.51	-3149.51	0.536
17.77	1	SLU	i	9	191.50	4.02	4.02	4.02	4.02	4649.91	3149.51	0.677
18.98	1	SLU	h	9	312.50	4.02	4.02	4.02	4.02	-4496.33	-3149.51	0.700

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	InEl	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ _f sup <daN/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
0.10	2	SLE R a	1	10.00	4.02	4.02	-2487.67	3262.65	-162.81	57.87
0.10	4	SLE Q a	1	10.00	4.02	4.02	-1963.76	2575.53	-128.52	45.68
0.20	2	SLE R a	1	20.00	4.02	4.02	-2487.67	3262.65	-162.81	57.87
0.20	4	SLE Q a	1	20.00	4.02	4.02	-1963.76	2575.53	-128.52	45.68
1.61	2	SLE R i	1	161.50	4.02	4.02	3482.98	-227.95	4568.03	81.02
1.61	4	SLE Q i	1	161.50	4.02	4.02	2746.64	-179.76	3602.31	63.89
3.03	2	SLE R i	1	303.00	4.02	4.02	-4736.11	6211.56	-309.96	110.17
3.03	4	SLE Q i	1	303.00	4.02	4.02	-3898.17	5112.57	-255.12	90.68
3.13	2	SLE R i	1	313.00	4.02	4.02	-4736.11	6211.56	-309.96	110.17
3.13	4	SLE Q i	1	313.00	4.02	4.02	-3898.17	5112.57	-255.12	90.68
3.43	2	SLE R a	2	20.00	4.02	4.02	-3383.74	4437.89	-221.46	78.72
3.43	4	SLE Q a	2	20.00	4.02	4.02	-2739.64	3593.12	-179.30	63.73
4.64	2	SLE R i	2	141.20	4.02	4.02	2917.37	-190.93	3826.22	67.87
4.64	4	SLE Q i	2	141.20	4.02	4.02	2262.07	-148.04	2966.78	52.62
6.46	2	SLE R i	2	323.00	4.02	8.04	-3995.64	5256.29	-235.10	91.05
6.46	4	SLE Q i	2	323.00	4.02	8.04	-3149.75	4143.51	-185.33	71.77
7.13	2	SLE R i	3	67.00	8.04	4.02	-8865.77	2005.43	-979.33	77.30
7.13	4	SLE Q i	3	67.00	8.04	4.02	-7023.61	1588.74	-775.84	61.24
8.71	2	SLE R i	6	0.00	8.04	4.02	-9696.97	2193.45	-1071.14	84.54
8.71	4	SLE Q i	6	0.00	8.04	4.02	-7686.10	1738.59	-849.02	67.01
9.36	2	SLE R i	7	0.00	4.02	8.04	-3849.88	5064.54	-226.52	87.72
9.36	4	SLE Q i	7	0.00	4.02	8.04	-3028.41	3983.90	-178.19	69.01
11.19	2	SLE R i	7	183.00	4.02	4.02	3182.27	-208.27	4173.64	74.03
11.19	4	SLE Q i	7	183.00	4.02	4.02	2501.05	-163.69	3280.21	58.18
12.41	2	SLE R a	7	305.00	4.02	4.02	-3301.11	4329.51	-216.05	76.79
12.41	4	SLE Q a	7	305.00	4.02	4.02	-2670.66	3502.65	-174.79	62.13
12.71	2	SLE R i	8	10.00	4.02	4.02	-4000.41	5246.67	-261.81	93.06
12.71	4	SLE Q i	8	10.00	4.02	4.02	-3135.76	4112.65	-205.22	72.95
12.81	2	SLE R i	8	20.00	4.02	4.02	-4000.41	5246.67	-261.81	93.06
12.81	4	SLE Q i	8	20.00	4.02	4.02	-3135.76	4112.65	-205.22	72.95
14.02	2	SLE R i	8	141.11	4.02	4.02	2352.55	-153.97	3085.44	54.73
14.02	4	SLE Q i	8	141.11	4.02	4.02	1838.75	-120.34	2411.57	42.77
15.66	2	SLE R i	8	305.00	4.02	4.02	-3642.06	4776.68	-238.36	84.72
15.66	4	SLE Q i	8	305.00	4.02	4.02	-2874.48	3769.97	-188.12	66.87
15.96	2	SLE R i	9	10.00	4.02	4.02	-4120.75	5404.49	-269.69	95.86
15.96	4	SLE Q i	9	10.00	4.02	4.02	-3299.76	4327.73	-215.96	76.76
16.06	2	SLE R i	9	20.00	4.02	4.02	-4120.75	5404.49	-269.69	95.86
16.06	4	SLE Q i	9	20.00	4.02	4.02	-3299.76	4327.73	-215.96	76.76
17.77	2	SLE R i	9	191.50	4.02	4.02	3243.32	-212.26	4253.72	75.45
17.77	4	SLE Q i	9	191.50	4.02	4.02	2544.55	-166.53	3337.25	59.19
18.98	2	SLE R h	9	312.50	4.02	4.02	-3149.53	4130.70	-206.13	73.27
18.98	4	SLE Q h	9	312.50	4.02	4.02	-2423.75	3178.82	-158.63	56.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	InEl	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmqr>	ε _{sm}	Wk <mm>	
19	0.10	4	SLE	Q a	1	28	10.00	-1963.76	27.00	932.00	0.50	16.00	315.17	4.02	656.40	2575.53	0.75	0.40
28	0.10	3	SLE	F a	1	28	10.00	-2113.07	27.00	932.00	0.50	16.00	315.17	4.02	656.40	2771.36	0.81	0.43
57	0.20	4	SLE	Q a	1	28	20.00	-1963.76	27.00	932.00	0.50	16.00	315.17	4.02	656.40	2575.53	0.75	0.40
67	0.20	3	SLE	F a	1	28	20.00	-2113.07	27.00	932.00	0.50	16.00	315.17	4.02	656.40	2771.36	0.81	0.43
103	1.61	4	SLE	Q i	1	28	161.50	2746.64	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3602.31	1.21	0.65
112	1.61	3	SLE	F i	1	28	161.50	2934.15	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3848.23	1.12	0.60
139	3.03	4	SLE	Q i	1	28	303.00	-3898.17	27.00	932.00	0.50	16.00	315.17	4.02	656.40	5112.57	1.95	1.04
148	3.03	3	SLE	F i	1	28	303.00	-4103.82	27.00	932.00	0.50	16.00	315.17	4.02	656.40	5382.28	1.81	0.97
175	3.13	4	SLE	Q i	1	28	313.00	-3898.17	27.00	932.00	0.50	16.00	315.17	4.02	656.40	5112.57	1.95	1.04

Relazione di calcolo

184	3.13	3	SLE F	i	1	28	313.00	-4103.82	27.00	932.00	0.50	16.00	315.17	4.02	656.40	5382.28	1.81	0.97
203	3.43	4	SLE Q	a	2	28	20.00	-2739.64	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3593.13	1.21	0.65
212	3.43	3	SLE F	a	2	28	20.00	-2924.09	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3835.04	1.12	0.60
247	4.64	4	SLE Q	i	2	28	141.20	2262.07	27.00	932.00	0.50	16.00	315.17	4.02	656.40	2966.78	0.91	0.49
256	4.64	3	SLE F	i	2	28	141.20	2429.70	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3186.63	0.93	0.50
715	6.46	4	SLE Q	i	2	28	323.00	-3149.75	27.00	932.00	0.50	16.00	316.24	4.02	659.07	4143.51	1.47	0.79
724	6.46	3	SLE F	i	2	28	323.00	-3371.92	27.00	932.00	0.50	16.00	316.24	4.02	659.07	4435.78	1.35	0.72
283	7.13	4	SLE Q	i	3	37	67.00	-7023.61	27.00	310.67	0.50	16.00	318.52	8.04	875.00	1588.74	0.46	0.25
292	7.13	3	SLE F	i	3	37	67.00	-7502.95	27.00	310.67	0.50	16.00	318.52	8.04	875.00	1697.17	0.49	0.27
319	8.71	4	SLE Q	i	6	37	0.00	-7686.10	27.00	310.67	0.50	16.00	318.52	8.04	875.00	1738.59	0.51	0.27
328	8.71	3	SLE F	i	6	37	0.00	-8213.36	27.00	310.67	0.50	16.00	318.52	8.04	875.00	1857.86	0.54	0.29
751	9.36	4	SLE Q	i	7	28	0.00	-3028.41	27.00	932.00	0.50	16.00	316.24	4.02	659.07	3983.90	1.40	0.75
760	9.36	3	SLE F	i	7	28	0.00	-3241.36	27.00	932.00	0.50	16.00	316.24	4.02	659.07	4264.04	1.27	0.68
355	11.19	4	SLE Q	i	7	28	183.00	2501.05	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3280.21	1.06	0.57
364	11.19	3	SLE F	i	7	28	183.00	2674.98	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3508.32	1.02	0.55
383	12.41	4	SLE Q	a	7	28	305.00	-2670.66	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3502.65	1.17	0.62
392	12.41	3	SLE F	a	7	28	305.00	-2851.19	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3739.43	1.09	0.58
427	12.71	4	SLE Q	i	8	28	10.00	-3135.76	27.00	932.00	0.50	16.00	315.17	4.02	656.40	4112.65	1.46	0.78
436	12.71	3	SLE F	i	8	28	10.00	-3353.80	27.00	932.00	0.50	16.00	315.17	4.02	656.40	4398.61	1.33	0.71
463	12.81	4	SLE Q	i	8	28	20.00	-3135.76	27.00	932.00	0.50	16.00	315.17	4.02	656.40	4112.65	1.46	0.78
472	12.81	3	SLE F	i	8	28	20.00	-3353.80	27.00	932.00	0.50	16.00	315.17	4.02	656.40	4398.61	1.33	0.71
499	14.02	4	SLE Q	i	8	28	141.11	1838.75	27.00	932.00	0.50	16.00	315.17	4.02	656.40	2411.57	0.70	0.38
508	14.02	3	SLE F	i	8	28	141.11	1971.32	27.00	932.00	0.50	16.00	315.17	4.02	656.40	2585.44	0.75	0.40
535	15.66	4	SLE Q	i	8	28	305.00	-2874.48	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3769.97	1.30	0.69
544	15.66	3	SLE F	i	8	28	305.00	-3068.66	27.00	932.00	0.50	16.00	315.17	4.02	656.40	4024.65	1.17	0.63
571	15.96	4	SLE Q	i	9	28	10.00	-3299.76	27.00	932.00	0.50	16.00	315.17	4.02	656.40	4327.73	1.57	0.84
580	15.96	3	SLE F	i	9	28	10.00	-3503.91	27.00	932.00	0.50	16.00	315.17	4.02	656.40	4595.48	1.43	0.77
607	16.06	4	SLE Q	i	9	28	20.00	-3299.76	27.00	932.00	0.50	16.00	315.17	4.02	656.40	4327.73	1.57	0.84
616	16.06	3	SLE F	i	9	28	20.00	-3503.91	27.00	932.00	0.50	16.00	315.17	4.02	656.40	4595.48	1.43	0.77
643	17.77	4	SLE Q	i	9	28	191.50	2544.55	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3337.25	1.09	0.58
652	17.77	3	SLE F	i	9	28	191.50	2721.71	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3569.61	1.04	0.56
678	18.98	4	SLE Q	h	9	28	312.50	-2423.75	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3178.82	1.01	0.54
687	18.98	3	SLE F	h	9	28	312.50	-2625.52	27.00	932.00	0.50	16.00	315.17	4.02	656.40	3443.46	1.00	0.54

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	ø6/20 2 br.	2.83	1.00	9627.87	2.50	4063.67	30719.10	4063.67	0.422
1 SLU	0.46	2.77	2.31	i	ø6/20 2 br.	2.83	1.00	10563.70	2.50	4063.67	30719.10	4063.67	0.385
1 SLU	2.77	3.03	0.26	i	ø6/20 2 br.	2.83	1.00	12587.20	2.50	4063.67	30719.10	4063.67	0.323
1 SLU	3.43	3.69	0.26	i	ø6/20 2 br.	2.83	1.00	11568.70	2.50	4063.67	30719.10	4063.67	0.351
1 SLU	3.69	6.20	2.51	i	ø6/20 2 br.	2.83	1.00	10192.80	2.50	4063.67	30719.10	4063.67	0.399
1 SLU	6.20	6.46	0.26	i	ø6/20 2 br.	2.83	1.00	12216.30	2.50	4063.67	30719.10	4063.67	0.333
1 SLU	6.46	7.13	0.67	i	ø6/20 2 br.	2.83	0.14	10290.90	2.50	12191.00	12902.00	12191.00	1.185
1 SLU	8.71	9.36	0.65	i	ø6/20 2 br.	2.83	0.14	12070.20	2.50	12191.00	12902.00	12191.00	1.010
1 SLU	9.36	9.62	0.26	i	ø6/20 2 br.	2.83	1.00	12309.80	2.50	4063.67	30719.10	4063.67	0.330
1 SLU	9.62	12.15	2.53	i	ø6/20 2 br.	2.83	1.00	10286.40	2.50	4063.67	30719.10	4063.67	0.395
1 SLU	12.15	12.41	0.26	i	ø6/20 2 br.	2.83	1.00	11632.20	2.50	4063.67	30719.10	4063.67	0.349
1 SLU	12.81	13.07	0.26	i	ø6/20 2 br.	2.83	1.00	10973.00	2.50	4063.67	30719.10	4063.67	0.370
1 SLU	13.07	15.40	2.33	i	ø6/20 2 br.	2.83	1.00	9375.57	2.50	4063.67	30719.10	4063.67	0.433
1 SLU	15.40	15.66	0.26	i	ø6/20 2 br.	2.83	1.00	11399.00	2.50	4063.67	30719.10	4063.67	0.356
1 SLU	16.06	16.32	0.26	i	ø6/20 2 br.	2.83	1.00	11813.20	2.50	4063.67	30719.10	4063.67	0.344
1 SLU	16.32	18.65	2.33	i	ø6/20 2 br.	2.83	1.00	9789.70	2.50	4063.67	30719.10	4063.67	0.415
1 SLU	18.65	18.91	0.26	i	ø6/20 2 br.	2.83	1.00	10558.90	2.50	4063.67	30719.10	4063.67	0.385

Travata n. 3009

Nodi: 335 336 337 -953 -954 -955 338 339 340 341

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>
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 <m>	CCTCCEl	X <cm>	AfE S <cm>	AfE I <cm>	AfE P S <cm>	AfE P I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.20	1 SLU	1 20.00	5.09	5.09	5.09	5.09	-2394.67	-3652.88	1.525
1.46	1 SLU	1 145.78	2.01	5.09	2.01	5.09	1789.53	3628.42	2.028
2.72	1 SLU	1 271.56	2.01	5.09	2.01	5.09	-2235.47	-1735.06	0.776
3.03	1 SLU	1 303.00	8.17	5.09	8.17	5.09	-2726.52	-5563.09	2.040
3.43	1 SLU	2 20.00	8.17	5.09	8.17	5.09	-2375.56	-5563.09	2.342
4.69	1 SLU	2 145.78	2.01	5.09	2.01	5.09	1688.61	3628.42	2.149
6.26	1 SLU	2 303.00	11.12	11.12	11.12	11.12	-2935.19	-7374.14	2.512
9.56	1 SLU	7 20.00	11.12	11.12	11.12	11.12	-2976.51	-7374.14	2.477
10.83	1 SLU	7 146.67	2.01	5.09	2.01	5.09	1715.67	3628.42	2.115
12.41	1 SLU	7 305.00	6.66	5.09	6.66	5.09	-2404.07	-4629.15	1.926
12.81	1 SLU	8 20.00	6.66	6.66	6.66	6.66	-2646.36	-3676.68	1.389

Relazione di calcolo

13.13	1	SLU	8	51.67	2.01	6.66	2.01	6.66	-1922.67	-1459.88	0.759
14.08	1	SLU	8	146.67	2.01	6.66	2.01	6.66	1597.91	3665.62	2.294
15.66	1	SLU	8	305.00	5.87	6.66	5.87	6.66	-2754.23	-3303.33	1.199
16.06	1	SLU	9	20.00	5.87	4.30	5.87	4.30	-3311.44	-4138.70	1.250
17.52	1	SLU	9	166.25	2.01	4.30	2.01	4.30	2167.00	3131.17	1.445
18.98	1	SLU	9	312.50	6.60	4.30	6.60	4.30	-1759.01	-4588.64	2.609

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
0.20	2	SLE R	1	20.00	5.09	5.09	-1677.52	1782.04	-221.00	42.23
0.20	4	SLE Q	1	20.00	5.09	5.09	-1449.55	1539.87	-190.97	36.49
1.46	2	SLE R	1	145.78	2.01	5.09	1250.89	-181.87	1324.29	32.80
1.46	4	SLE Q	1	145.78	2.01	5.09	1096.67	-159.45	1161.02	28.75
2.72	2	SLE R	1	271.56	2.01	5.09	-1559.17	4043.93	-56.30	60.03
2.72	4	SLE Q	1	271.56	2.01	5.09	-1384.80	3591.70	-50.01	53.32
3.03	2	SLE R	1	303.00	8.17	5.09	-1902.20	1283.01	-276.21	39.82
3.03	4	SLE Q	1	303.00	8.17	5.09	-1686.55	1137.55	-244.90	35.30
3.43	2	SLE R	2	20.00	8.17	5.09	-1660.54	1120.01	-241.12	34.76
3.43	4	SLE Q	2	20.00	8.17	5.09	-1445.15	974.73	-209.85	30.25
4.69	2	SLE R	2	145.78	2.01	5.09	1180.73	-171.67	1250.02	30.96
4.69	4	SLE Q	2	145.78	2.01	5.09	1033.23	-150.23	1093.86	27.09
6.26	2	SLE R	2	303.00	11.12	11.12	-2051.09	1031.23	-261.90	35.21
6.26	4	SLE Q	2	303.00	11.12	11.12	-1810.05	910.04	-231.12	31.07
9.56	2	SLE R	7	20.00	11.12	11.12	-2079.49	1045.51	-265.52	35.70
9.56	4	SLE Q	7	20.00	11.12	11.12	-1833.79	921.97	-234.15	31.48
10.83	2	SLE R	7	146.67	2.01	5.09	1199.76	-174.44	1270.17	31.46
10.83	4	SLE Q	7	146.67	2.01	5.09	1051.10	-152.82	1112.78	27.56
12.41	2	SLE R	7	305.00	6.66	5.09	-1680.73	1378.70	-237.28	38.00
12.41	4	SLE Q	7	305.00	6.66	5.09	-1461.79	1199.11	-206.38	33.05
12.81	2	SLE R	8	20.00	6.66	6.66	-1845.83	1912.60	-292.11	59.05
12.81	4	SLE Q	8	20.00	6.66	6.66	-1613.25	1671.60	-255.31	51.61
13.13	2	SLE R	8	51.67	2.01	6.66	-1341.11	4324.16	32.58	74.86
13.13	4	SLE Q	8	51.67	2.01	6.66	-1172.44	3780.31	28.49	65.44
14.08	2	SLE R	8	146.67	2.01	6.66	1114.08	-203.65	1146.53	37.81
14.08	4	SLE Q	8	146.67	2.01	6.66	972.39	-177.75	1000.71	33.00
15.66	2	SLE R	8	305.00	5.87	6.66	-1921.58	2244.54	-288.07	64.66
15.66	4	SLE Q	8	305.00	5.87	6.66	-1676.85	1958.68	-251.38	56.43
16.06	2	SLE R	9	20.00	5.87	4.30	-2320.32	2145.58	-326.49	55.70
16.06	4	SLE Q	9	20.00	5.87	4.30	-2039.65	1886.04	-287.00	48.96
17.52	2	SLE R	9	166.25	2.01	4.30	1515.27	-206.42	1884.39	42.46
17.52	4	SLE Q	9	166.25	2.01	4.30	1327.09	-180.78	1650.37	37.19
18.98	2	SLE R	9	312.50	6.60	4.30	-1224.09	1012.64	-176.49	28.09
18.98	4	SLE Q	9	312.50	6.60	4.30	-1067.88	883.41	-153.97	24.50

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.20	4	SLE Q	1	25	20.00	-1449.55	30.00	125.60	0.50	10.80	152.22	5.09	434.57	1539.87	0.46	0.12
4	0.20	3	SLE F	1	25	20.00	-1514.53	30.00	125.60	0.50	10.80	152.22	5.09	434.57	1608.90	0.47	0.12
7	1.46	4	SLE Q	1	25	145.78	1096.67	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1161.02	0.34	0.09
8	1.46	3	SLE F	1	25	145.78	1140.71	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1207.66	0.35	0.09
63	2.72	4	SLE Q	1	25	271.56	-1384.80	31.00	213.33	0.50	8.00	250.16	2.01	472.89	3591.70	1.05	0.44
64	2.72	3	SLE F	1	25	271.56	-1434.78	31.00	213.33	0.50	8.00	250.16	2.01	472.89	3721.32	1.08	0.46
11	3.03	4	SLE Q	1	25	303.00	-1686.55	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1137.55	0.37	0.07
12	3.03	3	SLE F	1	25	303.00	-1748.34	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1179.23	0.34	0.07
15	3.43	4	SLE Q	2	25	20.00	-1445.15	29.50	89.71	0.50	11.82	118.04	8.17	408.06	974.73	0.29	0.06
16	3.43	3	SLE F	2	25	20.00	-1506.96	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1016.42	0.30	0.06
19	4.69	4	SLE Q	2	25	145.78	1033.23	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1093.86	0.32	0.08
20	4.69	3	SLE F	2	25	145.78	1075.35	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1138.46	0.33	0.09
23	6.26	4	SLE Q	2	25	303.00	-1810.05	29.00	78.50	0.50	13.11	104.92	11.12	398.00	910.04	0.31	0.05
24	6.26	3	SLE F	2	25	303.00	-1878.66	29.00	78.50	0.50	13.11	104.92	11.12	398.00	944.53	0.28	0.05
27	9.56	4	SLE Q	7	25	20.00	-1833.79	29.00	78.50	0.50	13.11	104.92	11.12	398.00	921.97	0.31	0.06
28	9.56	3	SLE F	7	25	20.00	-1903.73	29.00	78.50	0.50	13.11	104.92	11.12	398.00	957.14	0.28	0.05
31	10.83	4	SLE Q	7	25	146.67	1051.10	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1112.78	0.32	0.08
32	10.83	3	SLE F	7	25	146.67	1093.56	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1157.74	0.34	0.09
35	12.41	4	SLE Q	7	25	305.00	-1461.79	30.00	89.71	0.50	10.60	126.86	6.66	420.09	1199.11	0.36	0.08
36	12.41	3	SLE F	7	25	305.00	-1524.61	30.00	89.71	0.50	10.60	126.86	6.66	420.09	1250.63	0.36	0.08
39	12.81	4	SLE Q	8	27	20.00	-1613.25	30.00	89.71	0.50	10.60	114.88	6.66	344.81	1671.60	0.63	0.12
40	12.81	3	SLE F	8	27	20.00	-1679.70	30.00	89.71	0.50	10.60	114.88	6.66	344.81	1740.46	0.57	0.11
67	13.13	4	SLE Q	8	27	51.67	-1172.44	31.00	213.33	0.50	8.00	216.10	2.01	387.30	3780.31	1.21	0.44
68	13.13	3	SLE F	8	27	51.67	-1220.63	31.00	213.33	0.50	8.00	216.10	2.01	387.30	3935.70	1.15	0.42
43	14.08	4	SLE Q	8	27	146.67	972.39	30.64	63.80	0.50	8.83	106.27	6.66	339.25	1000.71	0.30	0.05
44	14.08	3	SLE F	8	27	146.67	1012.87	30.64	63.80	0.50	8.83	106.27	6.66	339.25	1042.37	0.30	0.05
47	15.66	4	SLE Q	8	27	305.00	-1676.85	30.70	69.78	0.50	8.70	113.29	5.87	350.50	1958.68	0.74	0.14
48	15.66	3	SLE F	8	27	305.00	-1746.79	30.70	69.78	0.50	8.70	113.29	5.87	350.50	2040.37	0.67	0.13
51	16.06	4	SLE Q	9	25	20.00	-2039.65	30.70	69.78	0.50	8.70	124.46	5.87	425.94	1886.04	0.67	0.14
52	16.06	3	SLE F	9	25	20.00	-2119.92	30.70	69.78	0.50	8.70	124.46	5.87	425.94	1960.27	0.58	0.12
55	17.52	4	SLE Q	9	25	166.25	1327.09	30.88	91.29	0.50	8.30	146.47	4.30	439.17	1650.37	0.48	0.12
56	17.52	3	SLE F	9	25	166.25	1380.86	30.88	91.29	0.50	8.30	146.47	4.30	439.17	1717.23	0.50	0.12

Relazione di calcolo

59	18.98	4	SLE Q	9	25	312.50	-1067.88	30.83	57.09	0.50	8.40	115.07	6.60	419.46	883.41	0.26	0.05
60	18.98	3	SLE F	9	25	312.50	-1112.44	30.83	57.09	0.50	8.40	115.07	6.60	419.46	920.28	0.27	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	0.20	0.46	0.26	ø12/20 2 br.	11.31	0.70	5799.05	2.50	16254.70	21503.30	16254.70	2.803
1 SLU	0.46	2.77	2.31	ø6/20 2 br.	2.83	0.70	4955.79	2.50	4063.67	21503.30	4063.67	0.820
1 SLU	2.77	3.03	0.26	ø12/20 2 br.	11.31	0.70	6033.57	2.50	16254.70	21503.30	16254.70	2.694
1 SLU	3.43	3.69	0.26	ø12/20 2 br.	11.31	0.70	5718.56	2.50	16254.70	21503.30	16254.70	2.842
1 SLU	3.69	6.00	2.31	ø6/20 2 br.	2.83	0.70	5036.28	2.50	4063.67	21503.30	4063.67	0.807
1 SLU	6.00	6.26	0.26	ø12/20 2 br.	11.31	0.70	6114.06	2.50	16254.70	21503.30	16254.70	2.659
1 SLU	9.56	9.82	0.26	ø12/20 2 br.	11.31	0.70	6158.98	2.50	16254.70	21503.30	16254.70	2.639
1 SLU	9.82	12.15	2.33	ø6/20 2 br.	2.83	0.70	5081.20	2.50	4063.67	21503.30	4063.67	0.800
1 SLU	12.15	12.41	0.26	ø12/20 2 br.	11.31	0.70	5757.27	2.50	16254.70	21503.30	16254.70	2.823
1 SLU	12.81	13.03	0.22	ø12/20 2 br.	11.31	0.70	5790.60	2.50	13083.00	17307.60	13083.00	2.259
1 SLU	13.03	15.44	2.41	ø6/20 2 br.	2.83	0.70	4974.99	2.50	3270.76	17307.60	3270.76	0.657
1 SLU	15.44	15.66	0.22	ø12/20 2 br.	11.31	0.70	5866.30	2.50	13083.00	17307.60	13083.00	2.230
1 SLU	16.06	16.32	0.26	ø12/20 2 br.	11.31	0.70	6645.66	2.50	16254.70	21503.30	16254.70	2.446
1 SLU	16.32	18.65	2.33	ø6/20 2 br.	2.83	0.70	5567.88	2.50	4063.67	21503.30	4063.67	0.730
1 SLU	18.65	18.91	0.26	ø12/20 2 br.	11.31	0.70	5270.59	2.50	16254.70	21503.30	16254.70	3.084

Travata n. 3044

Nodi: 357 -301 -302 -303 -304 -305 -306 -307 358

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	0.00	3.08	0.00	3.08	-187.92	-254.68	1.355
1.27	1	SLU	4	18.12	3.08	3.08	3.08	3.08	215.60	1506.47	6.987
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-188.90	-1506.47	7.975

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
0.00	2	SLE R	1	0.00	0.00	3.08	-142.87	0.00	1703.43	225.35
0.00	4	SLE Q	1	0.00	0.00	3.08	-134.80	0.00	1607.20	212.62
1.27	2	SLE R	4	18.12	3.08	3.08	162.18	-101.62	430.13	18.05
1.27	4	SLE Q	4	18.12	3.08	3.08	147.67	-92.53	391.65	16.44
2.90	2	SLE R	8	36.25	3.08	3.08	-143.56	380.75	-89.95	15.98
2.90	4	SLE Q	8	36.25	3.08	3.08	-135.38	359.05	-84.82	15.07

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
7	1.27	4	SLE Q	4	19	18.12	147.67	28.00	134.00	0.50	14.00	93.58	3.08	82.65	391.65	0.11	0.02
8	1.27	3	SLE F	4	19	18.12	151.82	28.00	134.00	0.50	14.00	93.58	3.08	82.65	402.64	0.12	0.02
11	2.90	4	SLE Q	8	19	36.25	-135.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	359.05	0.10	0.02
12	2.90	3	SLE F	8	19	36.25	-137.72	28.00	134.00	0.50	14.00	93.58	3.08	82.65	365.24	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	0.04	0.22	0.18	ø6/ 8 2 br.	7.07	0.20	804.18	2.50	7185.75	7873.13	7185.75	8.936
1 SLU	0.22	2.68	2.47	ø6/ 8 2 br.	7.07	0.20	432.11	2.50	7185.75	7873.13	7185.75	16.629
1 SLU	2.68	2.86	0.18	ø6/ 8 2 br.	7.07	0.20	803.83	2.50	7185.75	7873.13	7185.75	8.939

Travata n. 3045

Nodi: 375 -619 -620 -621 -622 -623 -624 -625 -626 376

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	-127.84	-1506.47	11.784
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	84.47	1506.47	17.834
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-150.02	-1506.47	10.042

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_e sup <daN/cmq>	σ_e inf <daN/cmq>	σ_c <daN/cmq>
0.002	SLE R	1	0.00	3.08	3.08	-91.65	243.06	-57.42	10.20	
0.004	SLE Q	1	0.00	3.08	3.08	-72.41	192.03	-45.37	8.06	
1.442	SLE R	5	0.00	3.08	3.08	58.59	-36.71	155.39	6.52	
1.444	SLE Q	5	0.00	3.08	3.08	49.92	-31.28	132.40	5.56	
3.252	SLE R	9	36.11	3.08	3.08	-107.20	284.32	-67.17	11.93	
3.254	SLE Q	9	36.11	3.08	3.08	-92.02	244.06	-57.66	10.24	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-72.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	192.03	0.06	0.01
4	0.003	SLE	F	1	19	0.00	-77.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	206.61	0.06	0.01
7	1.444	SLE	Q	5	19	0.00	49.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	132.40	0.04	0.01
8	1.443	SLE	F	5	19	0.00	52.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	138.87	0.04	0.01
11	3.254	SLE	Q	9	19	36.11	-92.02	28.00	134.00	0.50	14.00	93.58	3.08	82.65	244.06	0.07	0.01
12	3.253	SLE	F	9	19	36.11	-96.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	255.56	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	0.04	0.22	0.18	ø6/ 8 2 br.	7.07	0.20	258.69	2.50	7185.75	7873.13	7185.75	27.778
1 SLU	0.22	3.03	2.82	ø6/ 8 2 br.	7.07	0.20	607.84	2.50	7185.75	7873.13	7185.75	11.822
1 SLU	3.03	3.21	0.18	ø6/ 8 2 br.	7.07	0.20	607.84	2.50	7185.75	7873.13	7185.75	11.822

Travata n. 3060

Nodi: 398 254 -7129 -253 -7117 238

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>	
1.441	SLU	1	182.74	3.08	1.57	3.08	1.57	3647.68	3491.45	0.957	
3.171	SLU	5	-6.25	3.08	1.57	3.08	1.57	-6045.86	-6638.54	1.098	

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ_e sup	σ_e inf	σ_c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.442	SLE R	1	182.74	3.08	1.57	2601.00	-390.86	2854.72	39.11	
1.444	SLE Q	1	182.74	3.08	1.57	2041.40	-306.77	2240.54	30.70	
3.172	SLE R	5	-6.25	3.08	1.57	-4295.34	2463.93	-625.66	54.14	
3.174	SLE Q	5	-6.25	3.08	1.57	-3300.93	1893.51	-480.81	41.61	

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _c ^{off} <cmq>	σ _s <daN/cm ² >	ε _{sm}	Wk <mm>
7	1.444	SLE Q	1	16	182.74	2041.40	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2240.54	0.65	0.17	
8	1.443	SLE F	1	16	182.74	2200.45	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2415.11	0.70	0.18	
3	3.174	SLE Q	5	16	-6.25	-3300.93	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1893.51	0.63	0.13	
4	3.173	SLE F	5	16	-6.25	-3584.48	28.00	94.00	0.50	14.00	119.66	3.08	140.00	2056.16	0.60	0.12	

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	2849.97	2.50	15238.80	26714.30	15238.80	5.347
1 SLU	1.21	1.72	0.65	ø6/16 2 br.	3.53	0.16	679.70	2.50	15238.80	26714.30	15238.80	22.420
1 SLU	1.92	3.17	1.25	ø6/16 2 br.	3.53	0.16	3984.51	2.50	15238.80	26714.30	15238.80	3.824

Travata n. 4012

Nodi: 397 453 -1025 437

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.
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Relazione di calcolo

<m>			<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	3.08	1.57	3.08	1.57	-3334.90	-6638.54	1.991

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
3.322	SLE R		3	52.50	3.08	1.57	-2363.48	1355.76	-344.26	29.79
3.324	SLE Q		3	52.50	3.08	1.57	-1724.98	989.50	-251.26	21.74

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	3.324	SLE Q		3	16	52.50	-1724.98	28.00	94.00	0.50	14.00	119.66	3.08	140.00	989.50	0.29	0.06
4	3.323	SLE F		3	16	52.50	-1907.33	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1094.10	0.32	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	0.22	1.43	1.53	ø6/16 2 br.	3.53	0.16	1729.90	2.50	15238.80	26714.30	15238.80	8.809
1 SLU	1.43	1.94	0.65	ø6/12 2 br.	4.71	0.16	1437.31	2.50	20318.30	26714.30	20318.30	14.136
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	4297.29	2.50	15238.80	26714.30	15238.80	3.546

Travate n. 5009 7009 9009 11009 13009 15009 17009 19009

5009 (a) Nodi: 535 536 537 538 539 540 541
7009 (b) Nodi: 735 736 737 738 739 740 741
9009 (c) Nodi: 935 936 937 938 939 940 941
11009 (d) Nodi: 1135 1136 1137 1138 1139 1140 1141
13009 (e) Nodi: 1335 1336 1337 1338 1339 1340 1341
15009 (f) Nodi: 1535 1536 1537 1538 1539 1540 1541
17009 (g) Nodi: 1735 1736 1737 1738 1739 1740 1741
19009 (h) Nodi: 1935 1936 1937 1938 1939 1940 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>
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	CC	TCC	In	El	X	AfE S	AfE I	AfE P S	AfE P I	My	MRdy	Sic.
<m>					<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.201	1	SLU	c	1	20.00	5.09	5.09	5.09	5.09	-2952.15	-3652.88	1.237
1.461	1	SLU	h	1	145.78	2.01	5.09	2.01	5.09	2185.80	3628.42	1.660
2.721	1	SLU	a	1	271.56	2.01	5.09	2.01	5.09	-2047.98	-1735.06	0.847
3.031	1	SLU	a	1	303.00	8.17	5.09	8.17	5.09	-2525.70	-5563.09	2.203
3.431	1	SLU	a	2	20.00	8.17	5.09	8.17	5.09	-2393.21	-5563.09	2.325
4.691	1	SLU	g	2	145.78	2.01	5.09	2.01	5.09	2038.87	3628.42	1.780
6.261	1	SLU	c	2	303.00	11.12	11.12	11.12	11.12	-2877.92	-7374.14	2.562
6.661	1	SLU	g	3	20.00	6.03	6.03	6.03	6.03	-734.81	-3933.07	5.353
7.911	1	SLU	h	3	145.00	6.03	6.03	6.03	6.03	-263.39	-3933.07	14.932
9.161	1	SLU	g	3	270.00	6.03	6.03	6.03	6.03	-639.25	-3933.07	6.153
9.561	1	SLU	c	4	20.00	11.12	12.13	11.12	12.13	-2889.83	-7373.69	2.552
10.831	1	SLU	h	4	146.67	2.01	6.09	2.01	6.09	2016.34	4263.79	2.115
12.091	1	SLU	a	4	273.33	2.01	6.09	2.01	6.09	-1979.06	-1744.14	0.881
12.411	1	SLU	e	4	305.00	7.45	6.09	7.45	6.09	-2475.13	-5116.44	2.067
12.811	1	SLU	b	5	20.00	7.45	5.91	7.45	5.91	-2702.02	-4049.13	1.499
14.081	1	SLU	g	5	146.67	2.01	5.91	2.01	5.91	1723.84	3298.26	1.913
15.661	1	SLU	a	5	305.00	6.66	5.91	6.66	5.91	-2697.69	-3675.75	1.363
16.061	1	SLU	a	6	20.00	6.66	5.84	6.66	5.84	-3167.27	-4630.28	1.462
17.361	1	SLU	h	6	150.00	2.01	5.84	2.01	5.84	2425.07	4105.13	1.693
18.981	1	SLU	g	6	312.50	6.60	5.84	6.60	5.84	-2683.01	-4591.37	1.711

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
0.202	SLE R	c	1	20.00	5.09	5.09	-2076.27	2205.63	-273.53		52.26
0.204	SLE Q	c	1	20.00	5.09	5.09	-1742.71	1851.29	-229.59		43.87
1.462	SLE R	h	1	145.78	2.01	5.09	1530.90	-222.59	1620.74		40.14
1.464	SLE Q	e	1	145.78	2.01	5.09	1264.38	-183.83	1338.57		33.15
2.722	SLE R	a	1	271.56	2.01	5.09	-1425.39	3696.97	-51.47		54.88
2.724	SLE Q	a	1	271.56	2.01	5.09	-1285.65	3334.51	-46.42		49.50
3.032	SLE R	a	1	303.00	8.17	5.09	-1758.93	1186.37	-255.41		36.82
3.034	SLE Q	a	1	303.00	8.17	5.09	-1580.26	1065.86	-229.47		33.08
3.432	SLE R	a	2	20.00	8.17	5.09	-1676.94	1131.07	-243.50		35.10
3.434	SLE Q	a	2	20.00	8.17	5.09	-1440.85	971.84	-209.22		30.16
4.692	SLE R	g	2	145.78	2.01	5.09	1425.98	-207.33	1509.66		37.39
4.694	SLE Q	g	2	145.78	2.01	5.09	1237.18	-179.88	1309.78		32.44

Relazione di calcolo

6.26	2	SLE R c	2	303.00	11.12	11.12	-1999.08	1005.08	-255.26	34.32
6.26	4	SLE Q c	2	303.00	11.12	11.12	-1815.03	912.54	-231.75	31.16
6.66	2	SLE R g	3	20.00	6.03	6.03	-509.90	477.15	-143.34	18.07
6.66	4	SLE Q g	3	20.00	6.03	6.03	-481.15	450.25	-135.26	17.05
7.91	2	SLE R h	3	145.00	6.03	6.03	-178.33	166.88	-50.13	6.32
7.91	4	SLE Q h	3	145.00	6.03	6.03	-138.94	130.01	-39.06	4.92
9.16	2	SLE R g	3	270.00	6.03	6.03	-443.49	415.00	-124.67	15.72
9.16	4	SLE Q g	3	270.00	6.03	6.03	-429.82	402.21	-120.83	15.23
9.56	2	SLE R c	4	20.00	11.12	12.13	-2007.27	1009.46	-250.57	34.00
9.56	4	SLE Q c	4	20.00	11.12	12.13	-1813.98	912.25	-226.44	30.73
10.83	2	SLE R h	4	146.67	2.01	6.09	1413.41	-215.21	1258.92	34.58
10.83	4	SLE Q g	4	146.67	2.01	6.09	1227.72	-186.94	1093.54	30.04
12.09	2	SLE R e	4	273.33	2.01	6.09	-1392.68	3613.80	-48.30	53.48
12.09	4	SLE Q a	4	273.33	2.01	6.09	-1189.88	3087.57	-41.27	45.70
12.41	2	SLE R e	4	305.00	7.45	6.09	-1743.32	1285.86	-243.60	37.23
12.41	4	SLE Q a	4	305.00	7.45	6.09	-1486.48	1096.42	-207.71	31.75
12.81	2	SLE R c	5	20.00	7.45	5.91	-1885.64	1754.86	-316.68	58.29
12.81	4	SLE Q c	5	20.00	7.45	5.91	-1649.82	1535.40	-277.07	51.00
14.08	2	SLE R g	5	146.67	2.01	5.91	1199.96	-209.30	1384.60	42.56
14.08	4	SLE Q g	5	146.67	2.01	5.91	1045.71	-182.40	1206.62	37.09
15.66	2	SLE R a	5	305.00	6.66	5.91	-1882.15	1948.24	-304.56	60.74
15.66	4	SLE Q a	5	305.00	6.66	5.91	-1642.08	1699.75	-265.72	52.99
16.06	2	SLE R a	6	20.00	6.66	5.84	-2225.62	1826.78	-307.54	49.80
16.06	4	SLE Q a	6	20.00	6.66	5.84	-1965.24	1613.06	-271.56	43.97
17.36	2	SLE R h	6	150.00	2.01	5.84	1699.61	-256.48	1576.14	42.25
17.36	4	SLE Q f	6	150.00	2.01	5.84	1348.59	-203.51	1250.63	33.53
18.98	2	SLE R g	6	312.50	6.60	5.84	-1850.58	1532.85	-255.26	41.56
18.98	4	SLE Q g	6	312.50	6.60	5.84	-1558.83	1291.19	-215.02	35.01

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	InEl	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
19	0.20	4	SLE Q c	1	25	20.00	-1742.71	30.00	125.60	0.50	10.80	152.22	5.09	434.57	1851.29	0.61	0.16
27	0.20	3	SLE F c	1	25	20.00	-1837.28	30.00	125.60	0.50	10.80	152.22	5.09	434.57	1951.76	0.57	0.15
53	1.46	4	SLE Q e	1	25	145.78	1264.38	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1338.57	0.39	0.10
61	1.46	3	SLE F e	1	25	145.78	1314.46	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1391.60	0.41	0.10
613	2.72	4	SLE Q a	1	25	271.56	-1285.65	31.00	213.33	0.50	8.00	250.16	2.01	472.89	3334.51	0.97	0.41
629	2.72	3	SLE F a	1	25	271.56	-1325.92	31.00	213.33	0.50	8.00	250.16	2.01	472.89	3438.96	1.00	0.43
81	3.03	4	SLE Q a	1	25	303.00	-1580.26	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1065.86	0.34	0.07
89	3.03	3	SLE F a	1	25	303.00	-1631.67	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1100.54	0.32	0.06
113	3.43	4	SLE Q a	2	25	20.00	-1440.85	29.50	89.71	0.50	11.82	118.04	8.17	408.06	971.84	0.29	0.06
121	3.43	3	SLE F a	2	25	20.00	-1508.77	29.50	89.71	0.50	11.82	118.04	8.17	408.06	1017.64	0.30	0.06
151	4.69	4	SLE Q g	2	25	145.78	1237.18	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1309.78	0.38	0.10
159	4.69	3	SLE F g	2	25	145.78	1290.69	30.00	126.80	0.50	10.80	151.34	5.09	430.44	1366.43	0.40	0.10
179	6.26	4	SLE Q c	2	25	303.00	-1815.03	29.00	78.50	0.50	13.11	104.92	11.12	398.00	912.54	0.31	0.05
187	6.26	3	SLE F c	2	25	303.00	-1866.77	29.00	78.50	0.50	13.11	104.92	11.12	398.00	938.55	0.27	0.05
215	6.66	4	SLE Q g	3	26	20.00	-481.15	27.00	110.00	0.50	16.00	97.96	6.03	165.73	450.25	0.13	0.02
223	6.66	3	SLE F g	3	26	20.00	-489.02	27.00	110.00	0.50	16.00	97.96	6.03	165.73	457.61	0.13	0.02
252	7.91	4	SLE Q h	3	26	145.00	-138.94	27.00	116.00	0.50	16.00	97.96	6.03	165.73	130.01	0.04	0.01
260	7.91	3	SLE F h	3	26	145.00	-148.99	27.00	116.00	0.50	16.00	97.96	6.03	165.73	139.42	0.04	0.01
283	9.16	4	SLE Q g	3	26	270.00	-429.82	27.00	110.00	0.50	16.00	97.96	6.03	165.73	402.21	0.12	0.02
291	9.16	3	SLE F g	3	26	270.00	-433.76	27.00	110.00	0.50	16.00	97.96	6.03	165.73	405.90	0.12	0.02
311	9.56	4	SLE Q c	4	25	20.00	-1813.98	29.00	78.50	0.50	13.11	105.09	11.12	399.45	912.25	0.31	0.05
319	9.56	3	SLE F c	4	25	20.00	-1868.37	29.00	78.50	0.50	13.11	105.09	11.12	399.45	939.60	0.27	0.05
347	10.83	4	SLE Q g	4	25	146.67	1227.72	30.25	90.57	0.50	10.21	130.93	6.09	420.42	1093.54	0.32	0.07
355	10.83	3	SLE F g	4	25	146.67	1278.53	30.25	90.57	0.50	10.21	130.93	6.09	420.42	1138.79	0.33	0.07
677	12.09	4	SLE Q a	4	25	273.33	-1189.88	31.00	213.33	0.50	8.00	250.24	2.01	473.10	3087.57	0.90	0.38
693	12.09	3	SLE F a	4	25	273.33	-1246.91	31.00	213.33	0.50	8.00	250.24	2.01	473.10	3235.56	0.94	0.40
373	12.41	4	SLE Q a	4	25	305.00	-1486.48	30.00	78.50	0.50	10.53	118.73	7.45	415.16	1096.42	0.33	0.07
381	12.41	3	SLE F a	4	25	305.00	-1556.11	30.00	78.50	0.50	10.53	118.73	7.45	415.16	1147.78	0.33	0.07
407	12.81	4	SLE Q c	5	27	20.00	-1649.82	30.00	78.50	0.50	10.53	107.91	7.45	338.63	1535.40	0.58	0.11
415	12.81	3	SLE F c	5	27	20.00	-1717.17	30.00	78.50	0.50	10.53	107.91	7.45	338.63	1598.07	0.53	0.10
443	14.08	4	SLE Q g	5	27	146.67	1045.71	30.25	90.86	0.50	9.89	118.33	5.91	345.17	1206.62	0.38	0.08
451	14.08	3	SLE F g	5	27	146.67	1089.52	30.25	90.86	0.50	9.89	118.33	5.91	345.17	1257.17	0.37	0.07
469	15.66	4	SLE Q a	5	27	305.00	-1642.08	30.64	62.80	0.50	8.83	106.90	6.66	343.99	1699.75	0.64	0.12
477	15.66	3	SLE F a	5	27	305.00	-1710.71	30.64	62.80	0.50	8.83	106.90	6.66	343.99	1770.78	0.58	0.11
501	16.06	4	SLE Q a	6	25	20.00	-1965.24	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1613.06	0.56	0.11
509	16.06	3	SLE F a	6	25	20.00	-2039.81	30.64	62.80	0.50	8.83	117.13	6.66	421.18	1674.27	0.49	0.10
538	17.36	4	SLE Q f	6	25	150.00	1348.59	30.56	79.50	0.50	9.30	128.41	5.84	422.82	1250.63	0.36	0.08
548	17.36	3	SLE F h	6	25	150.00	1434.48	30.56	79.50	0.50	9.30	128.41	5.84	422.82	1330.27	0.39	0.08
571	18.98	4	SLE Q g	6	25	312.50	-1558.83	30.83	57.09	0.50	8.40	115.36	6.60	421.71	1291.19	0.40	0.08
579	18.98	3	SLE F g	6	25	312.50	-1639.61	30.83	57.09	0.50	8.40	115.36	6.60	421.71	1358.09	0.40	0.08

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	c	ø12/20 2 br.	11.31	0.70	6176.78	2.50	16254.70	21503.30	16254.70	2.632
1 SLU	0.46	2.77	2.31	c	ø6/20 2 br.	2.83	0.70	5099.00	2.50	4063.67	21503.30	4063.67	0.797
1 SLU	2.77	3.03	0.26	e	ø12/20 2 br.	11.31	0.70	5878.04	2.50	16254.70	21503.30	16254.70	2.765
1 SLU	3.43	3.69	0.26	e	ø12/20 2 br.	11.31	0.70	5923.20	2.50	16254.70	21503.30	16254.70	2.744

Relazione di calcolo

1	SLU	3.69	6.00	2.31	c	ø6/20 2 br.	2.83	0.70	5046.04	2.50	4063.67	21503.30	4063.67	0.805
1	SLU	6.00	6.26	0.26	c	ø12/20 2 br.	11.31	0.70	6123.82	2.50	16254.70	21503.30	16254.70	2.654
1	SLU	6.66	6.92	0.26	c	ø12/20 2 br.	11.31	0.30	1179.47	1.76	11467.00	11467.00	11467.00	9.722
1	SLU	6.92	8.90	1.98	c	ø6/20 2 br.	2.83	0.30	945.16	2.50	4063.67	9215.72	4063.67	4.299
1	SLU	8.90	9.16	0.26	a	ø12/20 2 br.	11.31	0.30	1118.65	1.76	11467.00	11467.00	11467.00	10.251
1	SLU	9.56	9.82	0.26	c	ø12/20 2 br.	11.31	0.70	6128.84	2.50	16254.70	21503.30	16254.70	2.652
1	SLU	9.82	12.15	2.33	c	ø6/20 2 br.	2.83	0.70	5051.07	2.50	4063.67	21503.30	4063.67	0.805
1	SLU	12.15	12.41	0.26	e	ø12/20 2 br.	11.31	0.70	5996.04	2.50	16254.70	21503.30	16254.70	2.711
1	SLU	12.81	13.03	0.22	g	ø12/20 2 br.	11.31	0.70	5877.36	2.50	13083.00	17307.60	13083.00	2.226
1	SLU	13.03	15.44	2.41	g	ø6/20 2 br.	2.83	0.70	4986.06	2.50	3270.76	17307.60	3270.76	0.656
1	SLU	15.44	15.66	0.22	a	ø12/20 2 br.	11.31	0.70	5829.10	2.50	13083.00	17307.60	13083.00	2.244
1	SLU	16.06	16.32	0.26	a	ø12/20 2 br.	11.31	0.70	6524.85	2.50	16254.70	21503.30	16254.70	2.491
1	SLU	16.32	18.65	2.33	a	ø6/20 2 br.	2.83	0.70	5447.08	2.50	4063.67	21503.30	4063.67	0.746
1	SLU	18.65	18.91	0.26	g	ø12/20 2 br.	11.31	0.70	5908.60	2.50	16254.70	21503.30	16254.70	2.751

Travata n. 5060

Nodi: 598 454 -1027 438

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>	
1.20	1	SLU	1	152.28	3.08	1.57	3.08	1.57	3720.63	3491.45	0.938
3.32	1	SLU	3	52.50	3.08	1.57	3.08	1.57	-4243.54	-6638.54	1.564

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.20	2	SLE R	1	152.28	3.08	1.57	2650.68	-398.32	2909.26	39.86
1.20	4	SLE Q	1	152.28	3.08	1.57	2001.54	-300.78	2196.79	30.10
3.32	2	SLE R	3	52.50	3.08	1.57	-3016.56	1730.38	-439.39	38.02
3.32	4	SLE Q	3	52.50	3.08	1.57	-2273.37	1304.07	-331.14	28.65

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
7	1.20	4	SLE Q	1	16	152.28	2001.54	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2196.79	0.64	0.16
8	1.20	3	SLE F	1	16	152.28	2185.98	30.00	98.00	0.50	10.00	149.13	1.57	140.00	2399.23	0.70	0.18
3	3.32	4	SLE Q	3	16	52.50	-2273.37	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1304.07	0.38	0.08
4	3.32	3	SLE F	3	16	52.50	-2485.26	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1425.61	0.42	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	2552.44	2.50	15238.80	26714.30	15238.80	5.970
1 SLU	1.21	1.72	0.65	ø6/12 2 br.	4.71	0.16	420.23	2.50	20318.30	26714.30	20318.30	48.351
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	5412.89	2.50	15238.80	26714.30	15238.80	2.815

Verifiche e armature pilastri

Simbologia

Δ _{sm}	=Distanza media tra le fessure
Φ _{eq}	=Diametro equivalente delle barre
α	=Angolo asse neutro a rottura
ε _y	=Deformazione nell'acciaio (*1000)
ε _{sm}	=Deformazione unitaria media dell'armatura (*1000)
λ	=Snellezza massima
λ*	=Snellezza limite
μΦ	=Valore di progetto della duttilità di curvatura
σ _c	=Tensione nel calcestruzzo
σ _f	=Tensione nel ferro
σ _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 _y	=Numero bracci in dir. Y locale
Br _z	=Numero bracci in dir. Z locale
CC	=Combinazione delle condizioni di carico elementari
	e = eccentricità aggiuntiva in caso di compressione o pressoflessione
	α = 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

Relazione di calcolo

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 ₂	=Coefficiente per distribuzione deformazioni
M	=Momento flettente
M'yd _{y,s}	=Momento resistente massimo in campo sostanzialmente elastico (ridotto per stabilità) intorno all'asse Y
M'yd _{z,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 _y	=Taglio ultimo lato calcestruzzo in dir. Y
VRcd _z	=Taglio ultimo lato calcestruzzo in dir. Z
VRsd _y	=Taglio ultimo lato armatura in dir. Y
VRsd _z	=Taglio ultimo lato armatura in dir. Z
Vrd _y	=Taglio resistente in dir. Y
Vrd _z	=Taglio resistente in dir. Z
Vsdu _y	=Taglio agente in dir. Y
Vsdu _z	=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 _y	=Larghezza membratura resistente al taglio in dir. Y
bw _z	=Larghezza membratura resistente al taglio in dir. Z
c	=Ricoprimento dell'armatura
ctgθ _y	=Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Y
ctgθ _z	=Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Z
d _y	=Altezza utile per resistenza al taglio in dir. Y
d _z	=Altezza utile per resistenza al taglio in dir. Z
l ₀	=Lunghezza libera di inflessione
s	=Distanza massima tra le barre

Pilastrata n. 1

Nodi: 1 301 501 701 901 1101 1301 1501 1701 1901

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	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 _r	Sic.	
0.00	1	(e)	SLU	1	1	0.00	-168150.00	-463.76	-3363.00	1305.87	3363.00	-333837.00	-12902.40	12695.80	123.75	1.42	1.985
0.00	1	(e)	SLU	1	1	0.00	-168150.00	-463.76	-3363.00	1305.87	3363.00	-333837.00	-12902.40	12695.80	123.75	1.42	1.985
3.26	1	(e)	SLU	1	1	326.00	-166031.00	1314.55	3320.62	-2475.40	-3320.62	-333837.00	12953.30	-12755.10	303.75	1.45	2.011
6.50	1	(e)	SLU	3	10	0.00	-129828.00	-1409.81	-2596.57	3265.41	3265.41	-235893.00	-6580.86	8158.84	135.00	1.08	1.817
6.50	1	(e)	SLU	3	10	0.00	-129828.00	-1409.81	-2596.57	3265.41	3265.41	-235893.00	-6580.86	8158.84	135.00	1.08	1.817
9.26	1	(e)	SLU	3	10	276.00	-128572.00	1278.53	2571.45	-3146.44	-3146.44	-235893.00	6612.12	-8197.49	315.00	1.10	1.835
9.50	1	(e)	SLU	4	10	0.00	-110554.00	-1435.09	-2211.09	3528.29	3528.29	-235893.00	-5907.31	9609.06	129.38	1.48	2.134
9.50	1	(e)	SLU	4	10	0.00	-110554.00	-1435.09	-2211.09	3528.29	3528.29	-235893.00	-5907.31	9609.06	129.38	1.48	2.134
12.26	1	(e)	SLU	4	10	276.00	-109299.00	1318.35	2185.97	-3318.86	-3318.86	-235893.00	6176.71	-9403.03	310.78	1.51	2.158
12.50	1	(e)	SLU	5	10	0.00	-90944.00	-1429.62	-1818.88	3903.84	3903.84	-235893.00	-4999.95	10570.40	123.75	2.00	2.594
12.50	1	(e)	SLU	5	10	0.00	-90944.00	-1429.62	-1818.88	3903.84	3903.84	-235893.00	-4999.95	10570.40	123.75	2.00	2.594
15.26	1	(e)	SLU	5	10	276.00	-89688.20	1423.61	1793.76	-3966.28	-3966.28	-235893.00	4752.78	-10740.10	302.34	2.05	2.630
15.50	1	(e)	SLU	6	7	0.00	-71523.90	-1328.52	-1430.48	2379.83	2379.83	-185194.00	-3819.25	6371.04	113.91	1.79	2.589
15.50	1	(e)	SLU	6	7	0.00	-71523.90	-1328.52	-1430.48	2379.83	2379.83	-174161.00	-3576.34	6106.20	116.72	1.68	2.435
18.26	1	(e)	SLU	6	7	276.00	-70582.10	1314.00	-1411.64	-2565.70	-2565.70	-70582.10	-3393.13	-6248.39	244.69	1.72	2.428
18.50	1		SLU	7	7	0.00	-52786.10	-1576.33	-1576.33	3079.77	3079.77	-52786.10	-3085.82	6092.74	113.91	2.56	1.974
18.50	1		SLU	7	7	0.00	-52786.10	-1576.33	-1576.33	3079.77	3079.77	-52786.10	-3085.82	6092.74	113.91	2.56	1.974
21.26	1		SLU	7	7	276.00	-51844.30	1577.99	1577.99	-2880.07	-2880.07	-51844.30	3291.70	-5942.61	295.31	2.58	2.069
21.50	1		SLU	8	7	0.00	-33834.40	-1223.16	-1223.16	3047.10	3047.10	-33834.40	-2231.75	5739.77	108.28	4.07	1.876
21.50	1		SLU	8	7	0.00	-33834.40	-1223.16	-1223.16	3047.10	3047.10	-33834.40	-2231.75	5739.77	108.28	4.07	1.876
24.26	1	(e)	SLU	8	7	276.00	-32892.50	622.52	657.85	-2796.38	-2796.38	-32892.50	1463.52	-5907.76	281.25	4.87	2.119
24.50	1		SLU	9	7	0.00	-14697.40	-2614.87	-2614.87	3628.47	3628.47	-14697.40	-2867.85	3972.14	112.50	6.06	1.095
24.50	1		SLU	9	7	0.00	-14697.40	-2614.87	-2614.87	3628.47	3628.47	-14697.40	-2867.85	3972.14	112.50	6.06	1.095
27.26	1		SLU	9	7	276.00	-13755.50	4725.89	4725.89	-3960.20	-3960.20	-13755.50	3980.93	-3356.31	309.38	5.27	0.844

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
---	2	3.00	29.69	29.25
---	2	3.00	29.69	29.25

Relazione di calcolo

---	2	3.00	29.69	29.25
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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 _y	Sic.
3.50	1(e)	SLU	2	10	0.00	-148766.00	-1242.32	-2975.31	3107.32	3107.32	-246925.00	-6567.73	6649.77	142.03	0.81	1.660
3.50	1(e)	SLU	2	10	0.00	-148766.00	-1242.32	-2975.31	3107.32	3107.32	-235893.00	-5924.43	6113.68	139.22	0.70	1.586
6.26	1(e)	SLU	2	10	276.00	-147510.00	1294.28	2950.20	-2905.78	-2950.20	-235893.00	6158.60	-5949.85	320.62	0.72	1.599

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 _c <daN/cmq>	σ _f <daN/cmq>
0.00	2	SLE R	1	1	0.00	-119831.00	933.15	-402.14	0.00	12.31	63.20	920.65
0.00	4	SLE Q	1	1	0.00	-105140.00	778.17	-215.56	0.00	12.31	54.46	795.79
0.00	2	SLE R	1	1	0.00	-119831.00	933.15	-402.14	0.00	12.31	63.20	920.65
0.00	4	SLE Q	1	1	0.00	-105140.00	778.17	-215.56	0.00	12.31	54.46	795.79
3.26	2	SLE R	1	1	326.00	-118201.00	-1768.23	1078.34	0.00	12.31	71.59	1017.49
3.26	4	SLE Q	1	1	326.00	-103510.00	-1476.59	683.05	0.00	12.31	60.84	868.63
3.50	2	SLE R	2	10	0.00	-105984.00	2220.74	-992.36	0.00	12.31	97.57	1352.56
3.50	4	SLE Q	2	10	0.00	-92773.30	1851.71	-674.82	0.00	12.31	82.53	1151.66
3.50	2	SLE R	2	10	0.00	-105984.00	2220.74	-992.36	0.00	9.24	100.64	1394.94
3.50	4	SLE Q	2	10	0.00	-92773.30	1851.71	-674.82	0.00	9.24	85.17	1188.25
6.26	2	SLE R	2	10	276.00	-105018.00	-2077.32	1034.99	0.00	9.24	99.09	1374.61
6.26	4	SLE Q	2	10	276.00	-91807.40	-1727.30	702.89	0.00	9.24	83.65	1168.33
6.50	2	SLE R	3	10	0.00	-92504.70	2334.97	-1134.34	0.00	9.24	94.48	1292.73
6.50	4	SLE Q	3	10	0.00	-80845.90	1933.54	-760.72	0.00	9.24	79.11	1091.04
6.50	2	SLE R	3	10	0.00	-92504.70	2334.97	-1134.34	0.00	9.24	94.48	1292.73
6.50	4	SLE Q	3	10	0.00	-80845.90	1933.54	-760.72	0.00	9.24	79.11	1091.04
9.26	2	SLE R	3	10	276.00	-91538.70	-2250.57	1029.43	0.00	9.24	91.93	1261.73
9.26	4	SLE Q	3	10	276.00	-79879.90	-1861.01	687.27	0.00	9.24	77.01	1065.03
9.50	2	SLE R	4	10	0.00	-78784.40	2523.85	-1146.77	0.00	9.24	87.50	1181.33
9.50	4	SLE Q	4	10	0.00	-68730.90	2084.04	-779.57	0.00	9.24	72.88	991.79
9.50	2	SLE R	4	10	0.00	-78784.40	2523.85	-1146.77	0.00	9.24	87.50	1181.33
9.50	4	SLE Q	4	10	0.00	-68730.90	2084.04	-779.57	0.00	9.24	72.88	991.79
12.26	2	SLE R	4	10	276.00	-77818.40	-2374.52	1054.86	0.00	9.24	84.47	1144.66
12.26	4	SLE Q	4	10	276.00	-67764.90	-1958.53	715.12	0.00	9.24	70.37	960.96
12.50	2	SLE R	5	10	0.00	-64823.40	2793.15	-1148.13	0.00	9.24	81.02	1075.20
12.50	4	SLE Q	5	10	0.00	-56425.30	2299.87	-769.78	0.00	9.24	66.84	894.58
12.50	2	SLE R	5	10	0.00	-64823.40	2793.15	-1148.13	0.00	9.24	81.02	1075.20
12.50	4	SLE Q	5	10	0.00	-56425.30	2299.87	-769.78	0.00	9.24	66.84	894.58
15.26	2	SLE R	5	10	276.00	-63857.40	-2837.60	1141.35	0.00	9.24	80.75	1069.92
15.26	4	SLE Q	5	10	276.00	-55459.30	-2335.92	769.43	0.00	9.24	66.56	889.12
15.50	2	SLE R	6	7	0.00	-50999.20	1702.62	-1061.34	0.00	9.24	85.95	1100.63
15.50	4	SLE Q	6	7	0.00	-44236.00	1399.92	-724.33	0.00	9.24	70.61	911.99
15.50	2	SLE R	6	7	0.00	-50999.20	1702.62	-1061.34	0.00	6.16	88.58	1136.54
15.50	4	SLE Q	6	7	0.00	-44236.00	1399.92	-724.33	0.00	6.16	72.73	941.31
18.26	2	SLE R	6	7	276.00	-50274.70	-1835.65	1050.22	0.00	6.16	90.04	1148.68
18.26	4	SLE Q	6	7	276.00	-43511.50	-1508.16	717.44	0.00	6.16	73.83	949.73
18.50	2	SLE R	7	7	0.00	-37681.40	2203.57	-1250.79	1.54	4.62	91.38	1110.44
18.50	4	SLE Q	7	7	0.00	-32517.90	1807.56	-869.56	1.54	4.62	72.96	896.40
18.50	2	SLE R	7	7	0.00	-37681.40	2203.57	-1250.79	1.54	4.62	91.38	1110.44
18.50	4	SLE Q	7	7	0.00	-32517.90	1807.56	-869.56	1.54	4.62	72.96	896.40
21.26	2	SLE R	7	7	276.00	-36956.90	-2060.54	1241.93	1.54	4.62	87.58	1068.62
21.26	4	SLE Q	7	7	276.00	-31793.40	-1688.68	877.14	1.54	4.62	70.12	864.36
21.50	2	SLE R	8	7	0.00	-24211.40	2180.25	-996.87	3.08	3.08	85.39	970.09
21.50	4	SLE Q	8	7	0.00	-20677.60	1790.64	-649.93	3.08	3.08	65.84	758.46
21.50	2	SLE R	8	7	0.00	-24211.40	2180.25	-996.87	3.08	3.08	85.39	970.09
21.50	4	SLE Q	8	7	0.00	-20677.60	1790.64	-649.93	3.08	3.08	65.84	758.46
24.26	2	SLE R	8	7	276.00	-23486.90	-2000.59	560.92	3.08	3.08	69.86	811.22
24.26	4	SLE Q	8	7	276.00	-19953.10	-1648.38	288.65	3.08	3.08	53.93	633.85
24.50	2	SLE R	9	7	0.00	-10609.70	2595.78	-1983.23	4.62	1.54	153.49	3065.41
24.50	4	SLE Q	9	7	0.00	-8741.04	2097.96	-1519.68	4.62	1.54	120.85	2394.09
24.50	2	SLE R	9	7	0.00	-10609.70	2595.78	-1983.23	4.62	1.54	153.49	3065.41
24.50	4	SLE Q	9	7	0.00	-8741.04	2097.96	-1519.68	4.62	1.54	120.85	2394.09
27.26	2	SLE R	9	7	276.00	-9885.22	-2833.56	3481.46	4.62	1.54	216.83	4732.63
27.26	4	SLE Q	9	7	276.00	-8016.54	-2255.63	2841.08	4.62	1.54	174.65	3807.81

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.50	4	SLE Q	9	7	0.00	-8741.04	-1519.68	2097.96	39.00	258.00	0.50	14.00	197.24	1.54	103.67	2394.09	0.93	0.31
24.50	3	SLE F	9	7	0.00	-9247.47	-1652.19	2236.44	39.00	258.00	0.50	14.00	198.16	1.54	103.19	2585.10	0.90	0.30
24.50	4	SLE Q	9	7	0.00	-8741.04	-1519.68	2097.96	39.00	258.00	0.50	14.00	197.24	1.54	103.67	2394.09	0.93	0.31
24.50	3	SLE F	9	7	0.00	-9247.47	-1652.19	2236.44	39.00	258.00	0.50	14.00	198.16	1.54	103.19	2585.10	0.90	0.30
27.26	4	SLE Q	9	7	276.00	-8016.54	2841.08	-2255.63	39.00	258.00	0.50	14.00	222.88	1.54	96.94	3807.81	1.63	0.62
27.26	3	SLE F	9	7	276.00	-8522.97	3024.34	-2413.98	39.00	258.00	0.50	14.00	222.84	1.54	97.07	4069.50	1.64	0.62

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	b _{w,y} <m>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	b _{w,z} <m>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	1159.90	2.00	9878.00	9878.00	9878.00	9878.00	0.40	0.45	545.50	1.73	10990.50	10990.50	10990.50	8.516
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	1159.90	2.01	9964.93	9964.93	9964.93	9964.93	0.40	0.45	545.50	1.75	11093.70	11093.70	11093.70	8.591

Relazione di calcolo

2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	1159.90	2.08	10305.30	10305.30	10305.30	0.40	0.45	545.50	1.81	11497.10	11497.10	11497.10	8.885
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	2178.66	1.00	3710.82	0.00	0.00	0.40	0.30	919.06	1.00	3182.21	0.00	0.00	0.000
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	2178.66	1.00	3710.82	0.00	0.00	0.40	0.30	919.06	1.00	3182.21	0.00	0.00	0.000
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	2178.66	1.00	3710.82	0.00	0.00	0.40	0.30	919.06	1.00	3182.21	0.00	0.00	0.000
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	2323.13	1.00	3710.82	2650.09	2650.09	0.40	0.30	974.04	1.00	3182.21	2597.24	2597.24	1.141
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	2323.13	1.00	3710.82	2753.40	2753.40	0.40	0.30	974.04	1.00	3182.21	2698.48	2698.48	1.185
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	2323.13	1.00	3710.82	3166.62	3166.62	0.40	0.30	974.04	1.00	3182.21	3103.47	3103.47	1.363
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	2480.85	2.36	8746.60	8746.60	8746.60	0.40	0.30	997.62	2.50	7955.54	8221.33	7955.54	3.526
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	2480.85	2.37	8790.32	8790.32	8790.32	0.40	0.30	997.62	2.50	7955.54	8291.16	7955.54	3.543
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	2480.85	2.42	8963.07	8963.07	8963.07	0.40	0.30	997.62	2.50	7955.54	8570.47	7955.54	3.613
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	2851.49	2.50	9277.05	15064.20	9277.05	0.40	0.30	1033.78	2.50	7955.54	14763.80	7955.54	3.253
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	2851.49	2.50	9277.05	15135.50	9277.05	0.40	0.30	1033.78	2.50	7955.54	14833.60	7955.54	3.253
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	2851.49	2.50	9277.05	15420.40	9277.05	0.40	0.30	1033.78	2.50	7955.54	15112.90	7955.54	3.253
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	1791.86	2.50	6634.02	9696.17	6634.02	0.30	0.30	957.43	2.50	7955.54	9966.58	7955.54	3.702
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	1791.86	2.50	6634.02	9747.13	6634.02	0.30	0.30	957.43	2.50	7955.54	10019.00	7955.54	3.702
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	1791.86	2.50	6634.02	9950.92	6634.02	0.30	0.30	957.43	2.50	7955.54	10228.40	7955.54	3.702
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	2159.36	2.50	6634.02	15777.90	6634.02	0.30	0.30	1142.87	2.50	7955.54	16217.90	7955.54	3.072
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	2159.36	2.50	6634.02	15828.80	6634.02	0.30	0.30	1142.87	2.50	7955.54	16270.30	7955.54	3.072
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	2159.36	2.50	6634.02	16032.60	6634.02	0.30	0.30	1142.87	2.50	7955.54	16479.80	7955.54	3.072
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	2117.21	2.50	6634.02	16455.30	6634.02	0.30	0.30	668.73	2.50	7955.54	16914.20	7955.54	3.133
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	2117.21	2.50	6634.02	16455.30	6634.02	0.30	0.30	668.73	2.50	7955.54	16914.20	7955.54	3.133
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	2117.20	2.50	6634.02	16455.30	6634.02	0.30	0.30	668.73	2.50	7955.54	16914.20	7955.54	3.133
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	2749.52	2.50	6634.02	15072.40	6634.02	0.30	0.30	2659.69	2.50	7955.54	15492.70	7955.54	2.413
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	2749.52	2.50	6634.02	15052.00	6634.02	0.30	0.30	2659.69	2.50	7955.54	15471.80	7955.54	2.413
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	2749.52	2.50	6634.02	14970.50	6634.02	0.30	0.30	2659.69	2.50	7955.54	15388.00	7955.54	2.413

Pilastrata n. 2

Nodi: 2 302 502 702 902 1102 1302 1502 1702 1902

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 _r	Sic.
9.50	1(e)	SLU	4	10	0.00	-139338.00	-3602.09	-3602.09	288.20	2786.76	-260434.00	-9220.60	7280.72	147.66	1.07	1.869
9.50	1(e)	SLU	4	10	0.00	-139338.00	-3602.09	-3602.09	288.20	2786.76	-246024.00	-8477.63	6621.70	144.84	0.94	1.766
12.26	1(e)	SLU	4	10	276.00	-138082.00	3311.65	3311.65	-349.79	-2761.65	-246024.00	8312.66	-6931.46	323.44	0.96	1.782
12.50	1(e)	SLU	5	10	0.00	-116120.00	-3688.63	-3688.63	524.80	2322.40	-246024.00	-10013.70	6131.63	149.06	1.38	2.119
12.50	1(e)	SLU	5	10	0.00	-116120.00	-3688.63	-3688.63	524.80	2322.40	-246024.00	-10013.70	6131.63	149.06	1.38	2.119
15.26	1(e)	SLU	5	10	276.00	-114864.00	3657.96	3657.96	-592.52	-2297.28	-246024.00	10053.10	-6145.60	329.06	1.41	2.142
18.50	1(e)	SLU	7	7	0.00	-69336.50	-3767.79	-3767.79	431.64	-1386.73	-69336.50	-7995.71	-3080.86	213.75	1.81	2.134
18.50	1(e)	SLU	7	7	0.00	-69336.50	-3767.79	-3767.79	431.64	-1386.73	-69336.50	-7995.71	-3080.86	213.75	1.81	2.134
21.26	1(e)	SLU	7	7	276.00	-68394.70	3583.65	3583.65	-438.16	-1367.89	-68394.70	7988.84	-3075.76	326.25	1.85	2.232
21.50	1(e)	SLU	8	7	0.00	-46216.60	-3384.77	-3384.77	543.56	-924.33	-46216.60	-8102.48	-2289.41	208.12	2.99	2.400
21.50	1(e)	SLU	8	7	0.00	-46216.60	-3384.77	-3384.77	543.56	-924.33	-46216.60	-7407.04	2152.80	151.88	3.04	2.198
24.26	1(e)	SLU	8	7	276.00	-45274.80	2684.40	2684.40	-537.88	-905.50	-45274.80	7115.52	-2428.69	329.06	3.03	2.654
24.50	1	SLU	9	7	0.00	-23421.30	-4508.94	-4508.94	596.09	596.09	-23421.30	-6198.83	828.28	171.56	8.04	1.375
24.50	1	SLU	9	7	0.00	-23421.30	-4508.94	-4508.94	596.09	596.09	-23421.30	-6198.83	828.28	171.56	8.04	1.375
27.26	1	SLU	9	7	276.00	-22479.40	6181.16	6181.16	-531.92	-531.92	-22479.40	6116.27	-587.15	354.38	8.98	0.990

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*
---	1	3.50	30.31	29.30	---	1	3.50	30.31	29.30	---	1	3.50	30.31	29.30	---	2	3.00	29.69	26.10
---	2	3.00	29.69	26.10	---	2	3.00	29.69	26.10	---	3	3.00	29.69	27.95	---	3	3.00	29.69	27.95
---	3	3.00	29.69	27.95	---	6	3.00	34.64	32.10	---	6	3.00	34.64	32.10	---	6	3.00	34.64	32.10

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 _r	Sic.
0.00	1(e)	SLU	1	1	0.00	-211967.00	-1923.24	-4239.35	-276.49	-4239.35	-347346.00	-10765.80	-11234.90	237.66	0.84	1.639
0.00	1(e)	SLU	1	1	0.00	-211967.00	-1923.24	-4239.35	-276.49	-4239.35	-347346.00	-10765.80	-11234.90	237.66	0.84	1.639
3.26	1(e)	SLU	1	1	326.00	-209848.00	4046.02	4196.97	456.90	4196.97	-347346.00	10871.30	11362.10	57.66	0.87	1.655
3.50	1(e)	SLU	2	10	0.00	-186753.00	-3195.94	-3735.05	-387.00	-3735.05	-260434.00	-5520.61	-5384.85	216.56	0.26	1.395
3.50	1(e)	SLU	2	10	0.00	-186753.00	-3195.94	-3735.05	-387.00	-3735.05	-260434.00	-5520.61	-5384.85	216.56	0.26	1.395
6.26	1(e)	SLU	2	10	276.00	-185497.00	3327.97	3709.94	216.42	3709.94	-260434.00	5602.64	5455.82	36.56	0.28	1.404
6.50	1(e)	SLU	3	10	0.00	-162893.00	-3726.30	-3726.30	16.45	3257.85	-260434.00	-7279.59	6095.91	146.25	0.65	1.599
6.50	1(e)	SLU	3	10	0.00	-162893.00	-3726.30	-3726.30	16.45	3257.85	-260434.00	-7279.59	6095.91	146.25	0.65	1.599
9.26	1(e)	SLU	3	10	276.00	-161637.00	3388.40	3388.40	-90.86	-3232.74	-260434.00	7025.46	-6707.17	323.44	0.68	1.611
15.50	1(e)	SLU	6	7	0.00	-92711.20	-3336.63	-3336.63	359.10	1854.22	-92711.20	-6922.72	3816.15	135.00	1.25	2.071
15.50	1(e)	SLU	6	7	0.00	-92711.20	-3336.63	-3336.63	359.10	1854.22	-92711.20	-6199.43	-3242.87	220.78	1.10	1.833
18.26	1(e)	SLU	6	7	276.00	-91769.40	3298.84	3298.84	-354.87	1835.39	-91769.40	6233.96	3258.28	40.78	1.12	1.863</

Relazione di calcolo

3.50	2	SLE R	2	10	0.00	-133390.00	-279.81	-2359.55	0.00	16.09	107.64	1509.65
3.50	4	SLE Q	2	10	0.00	-114465.00	-217.13	-1977.15	0.00	16.09	91.69	1287.87
6.26	2	SLE R	2	10	276.00	-132424.00	155.66	2459.34	0.00	16.09	106.98	1499.48
6.26	4	SLE Q	2	10	276.00	-113499.00	113.11	2061.79	0.00	16.09	91.05	1278.03
6.50	2	SLE R	3	10	0.00	-116347.00	13.26	-2756.57	0.00	16.09	98.96	1371.35
6.50	4	SLE Q	3	10	0.00	-99784.80	31.25	-2312.33	0.00	16.09	84.52	1172.36
6.50	2	SLE R	3	10	0.00	-116347.00	13.26	-2756.57	0.00	16.09	98.96	1371.35
6.50	4	SLE Q	3	10	0.00	-99784.80	31.25	-2312.33	0.00	16.09	84.52	1172.36
9.26	2	SLE R	3	10	276.00	-115381.00	-67.67	2506.04	0.00	16.09	96.30	1340.10
9.26	4	SLE Q	3	10	276.00	-98818.80	-76.43	2100.86	0.00	16.09	82.18	1144.54
9.50	2	SLE R	4	10	0.00	-99519.10	210.51	-2662.08	0.00	16.09	89.47	1226.81
9.50	4	SLE Q	4	10	0.00	-85250.50	200.13	-2234.19	0.00	16.09	76.35	1047.76
9.50	2	SLE R	4	10	0.00	-99519.10	210.51	-2662.08	0.00	12.06	91.90	1262.90
9.50	4	SLE Q	4	10	0.00	-85250.50	200.13	-2234.19	0.00	12.06	78.44	1078.81
12.26	2	SLE R	4	10	276.00	-98553.10	-255.45	2448.00	0.00	12.06	89.54	1234.72
12.26	4	SLE Q	4	10	276.00	-84284.50	-236.27	2054.61	0.00	12.06	76.35	1053.52
12.50	2	SLE R	5	10	0.00	-82929.30	382.64	-2727.96	0.00	12.06	83.68	1131.21
12.50	4	SLE Q	5	10	0.00	-70886.20	349.50	-2288.47	0.00	12.06	71.30	964.51
12.50	2	SLE R	5	10	0.00	-82929.30	382.64	-2727.96	0.00	12.06	83.68	1131.21
12.50	4	SLE Q	5	10	0.00	-70886.20	349.50	-2288.47	0.00	12.06	71.30	964.51
15.26	2	SLE R	5	10	276.00	-81963.30	-431.19	2705.01	0.00	12.06	83.29	1124.68
15.26	4	SLE Q	5	10	276.00	-69920.20	-393.31	2270.70	0.00	12.06	70.91	958.04
15.50	2	SLE R	6	7	0.00	-66202.40	261.04	-2468.09	0.00	12.06	89.62	1197.08
15.50	4	SLE Q	6	7	0.00	-56401.90	237.27	-2074.18	0.00	12.06	76.23	1018.37
15.50	2	SLE R	6	7	0.00	-66202.40	261.04	-2468.09	0.00	8.04	94.85	1265.61
15.50	4	SLE Q	6	7	0.00	-56401.90	237.27	-2074.18	0.00	8.04	80.66	1076.44
18.26	2	SLE R	6	7	276.00	-65477.90	-258.17	2441.37	0.00	8.04	93.82	1251.80
18.26	4	SLE Q	6	7	276.00	-55677.40	-235.23	2052.64	0.00	8.04	79.71	1063.56
18.50	2	SLE R	7	7	0.00	-49520.00	314.35	-2787.63	0.00	8.04	85.88	1109.19
18.50	4	SLE Q	7	7	0.00	-41994.60	285.51	-2342.34	0.00	8.04	72.84	940.55
18.50	2	SLE R	7	7	0.00	-49520.00	314.35	-2787.63	0.00	8.04	85.88	1109.19
18.50	4	SLE Q	7	7	0.00	-41994.60	285.51	-2342.34	0.00	8.04	72.84	940.55
21.26	2	SLE R	7	7	276.00	-48795.50	-318.91	2648.91	0.00	8.04	83.42	1079.68
21.26	4	SLE Q	7	7	276.00	-41270.10	-288.16	2223.13	0.00	8.04	70.62	913.67
21.50	2	SLE R	8	7	0.00	-33017.20	395.59	-2507.61	2.01	6.03	70.77	883.09
21.50	4	SLE Q	8	7	0.00	-27724.70	351.57	-2110.56	2.01	6.03	59.89	746.30
21.50	2	SLE R	8	7	0.00	-33017.20	395.59	-2507.61	1.54	4.62	73.17	915.60
21.50	4	SLE Q	8	7	0.00	-27724.70	351.57	-2110.56	1.54	4.62	61.93	773.88
24.26	2	SLE R	8	7	276.00	-32292.70	-391.07	1997.42	0.00	6.16	63.69	810.94
24.26	4	SLE Q	8	7	276.00	-27000.20	-344.74	1691.68	0.00	6.16	53.93	685.21
24.50	2	SLE R	9	7	0.00	-16744.10	433.49	-3328.32	3.08	3.08	103.07	1679.51
24.50	4	SLE Q	9	7	0.00	-13625.10	389.34	-2788.26	3.08	3.08	87.69	1469.00
24.50	2	SLE R	9	7	0.00	-16744.10	433.49	-3328.32	3.08	3.08	103.07	1679.51
24.50	4	SLE Q	9	7	0.00	-13625.10	389.34	-2788.26	3.08	3.08	87.69	1469.00
27.26	2	SLE R	9	7	276.00	-16019.60	-387.70	4546.30	3.08	3.08	138.69	3109.35
27.26	4	SLE Q	9	7	276.00	-12900.60	-356.93	3785.51	3.08	3.08	117.16	2667.68

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.50	4	SLE Q	9	7	0.00	-13625.10	-2788.26	389.34	39.00	208.00	0.50	14.00	221.93	1.54	158.26	1469.00	0.43	0.16
24.50	3	SLE F	9	7	0.00	-14450.40	-2942.55	401.22	39.00	208.00	0.50	14.00	222.59	1.54	158.98	1536.87	0.45	0.17
24.50	4	SLE Q	9	7	0.00	-13625.10	-2788.26	389.34	39.00	208.00	0.50	14.00	221.93	1.54	158.26	1469.00	0.43	0.16
24.50	3	SLE F	9	7	0.00	-14450.40	-2942.55	401.22	39.00	208.00	0.50	14.00	222.59	1.54	158.98	1536.87	0.45	0.17
27.26	4	SLE Q	9	7	276.00	-12900.60	3785.51	-356.93	39.00	208.00	0.50	14.00	169.48	3.08	201.17	2667.68	1.07	0.31
27.26	3	SLE F	9	7	276.00	-13725.90	4002.79	-365.22	39.00	208.00	0.50	14.00	169.81	3.08	201.90	2802.80	1.02	0.29

Stato limite ultimo - Verifiche a taglio

X0 <mm>	X1 <mm>	Staff.	Br _y	Br _z	CC	TCC	b _{w,y} <mm>	d _{r,y} <mm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	b _{w,z} <mm>	d _{r,z} <mm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	224.97	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1831.06	1.00	6357.38	0.00	0.00	0.000
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	224.97	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1831.06	1.00	6357.38	0.00	0.00	0.000
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	224.97	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1831.06	1.00	6357.38	0.00	0.00	0.000
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	218.63	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2363.73	1.00	3182.21	0.00	0.00	0.000
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	218.63	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2363.73	1.00	3182.21	0.00	0.00	0.000
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	218.63	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2363.73	1.00	3182.21	0.00	0.00	0.000
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	38.88	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2577.79	1.00	3182.21	0.00	0.00	0.000
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	38.88	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2577.79	1.00	3182.21	0.00	0.00	0.000
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	38.88	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2577.79	1.00	3182.21	0.00	0.00	0.000
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	231.15	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2504.98	1.00	3182.21	0.00	0.00	0.000
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	231.15	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2504.98	1.00	3182.21	0.00	0.00	0.000
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	231.15	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2504.98	1.00	3182.21	0.00	0.00	0.000
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	404.82	2.02	7491.03	7491.03	7491.03	7491.03	0.40	0.30	2661.81	2.19	6972.00	6972.00	6972.00	2.619
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	404.82	2.03	7542.03	7542.04	7542.03	7542.03	0.40	0.30	2661.81	2.21	7018.06	7018.06	7018.06	2.637
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	404.82	2.09	7742.69	7742.69	7742.69	7742.69	0.40	0.30	2661.81	2.26	7199.36	7199.36	7199.36	2.705
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	258.68	1.44	3828.21	3828.21	3828.21	3828.21	0.30	0.30	2404.16	1.28	4076.53	4076.53	4076.53	1.696
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	258.68	1.46	3879.08	3879.08	3879.08	3879.08	0.30	0.30	2404.16	1.30	4135.38	4135.38	4135.38	1.720
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	258.68	1.54	4076.22	4076.22	4076.22	4076.22	0.30	0.30	2404.16	1.37	4362.86	4362.86	4362.86	1.815
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	315.15	2.50	6634.02	10406.10	6634.02	6634.02	0.30	0.30	2663.56	2.50	7955.54	10696.30	7955.54	2.987
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	315.15	2.50	6634.02	10457.10	6634.02	6634.02	0.30	0.30	2663.56	2.50	7955.54	10748.70	7955.54	2.987
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	315.14	2.50	6634.02	10660.90	6634.02	6634.02	0.30	0.30	2663.56	2.50	7955.54	10958.20	7955.54	2.987
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	391.83	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	2198.97	2.50	7955.54	16914.20	7955.54	3.618
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	391.83	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	2198.97	2.50	7955.54	16914.20	7955.54	3.618
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	391.83	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	2198.97	2.50	7955.54	16914.20	7955.54	3.618
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	408.70	2.50	6634.02	16205.00	6634.02	6634.02	0.30	0.30	3873.22	2.50	7955.54	16656.90	7955.54	2.054
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	408.70	2.50	6634.02	16184.60	6634.02	6634.02	0.30	0.30	3873.22	2.50	7955.54	16636.00	7955.54	2.054
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	408.70	2.50	6634.02	16103.10	6634.02	6634.02	0.30	0.30	3873.22	2.50	7955.54	16652.20	7955.54	2.054

Pilastrata n. 3

Nodi: 3 303 503 703 903 1103 1303 1503 1703 1903

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 _r	Sic.
12.501	1(e)	SLU	5	10	0.00	-121890.00	-5761.67	-5761.67	390.99	2437.80	-121890.00	-10892.70	4522.69	156.09	1.23	1.885
12.501	1(e)	SLU	5	10	0.00	-121890.00	-5761.67	-5761.67	390.99	2437.80	-121890.00	-10892.70	4522.69	156.09	1.23	1.885
15.001	1(e)	SLU	5	10	250.00	-120752.00	4650.71	4650.71	-292.22	-2415.05	-246024.00	10312.50	-5458.12	331.88	1.27	2.037
18.501	1(e)	SLU	7	7	0.00	-71400.50	-5719.96	-5719.96	250.15	1428.01	-71400.50	-8791.08	2176.11	154.69	1.77	1.536
18.501	1(e)	SLU	7	7	0.00	-71400.50	-5719.96	-5719.96	250.15	1428.01	-71400.50	-8791.08	2176.11	154.69	1.77	1.536
21.001	1(e)	SLU	7	7	250.00	-70547.40	4368.80	4368.80	-184.85	-1410.95	-70547.40	8279.58	-2774.84	329.06	1.77	1.902
21.501	1(e)	SLU	8	7	0.00	-46270.30	-5415.69	-5415.69	243.41	925.41	-46270.30	-8796.34	1422.79	160.31	3.23	1.622
21.501	1(e)	SLU	8	7	0.00	-46270.30	-5415.69	-5415.69	243.41	925.41	-46270.30	-7989.18	1368.08	160.31	3.30	1.475
24.001	1(e)	SLU	8	7	250.00	-45417.20	3839.12	3839.12	-185.46	-908.34	-45417.20	7622.00	-1848.61	334.69	3.15	1.988
24.501	1(e)	SLU	9	7	0.00	-21051.50	-5951.51	-5951.51	177.91	421.03	-21051.50	-5957.34	469.35	175.78	9.87	1.002
24.501	1(e)	SLU	9	7	0.00	-21051.50	-5951.51	-5951.51	177.91	421.03	-21051.50	-5957.34	469.35	175.78	9.87	1.002
27.001	1(e)	SLU	9	7	250.00	-20198.30	5572.01	5572.01	-69.23	-403.97	-20198.30	5853.09	-473.75	355.78	10.15	1.051

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*
---	1	3.50	30.31	28.46	---	1	3.50	30.31	28.46	---	1	3.50	30.31	28.46	---	2	3.00	29.69	25.33
---	2	3.00	29.69	25.33	---	2	3.00	29.69	25.33	---	3	3.00	29.69	27.13	---	3	3.00	29.69	27.13
---	3	3.00	29.69	27.13	---	4	3.00	29.69	29.39	---	4	3.00	29.69	29.39	---	4	3.00	29.69	29.39
---	6	3.00	34.64	31.46	---	6	3.00	34.64	31.46	---	6	3.00	34.64	31.46	---	6	3.00	34.64	31.46

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 _r	Sic.
0.001	1(e)	SLU	1	1	0.00	-224535.00	-3192.59	-4490.69	98.02	4490.69	-347346.00	-10116.30	10451.60	122.34	0.68	1.547
0.001	1(e)	SLU	1	1	0.00	-224535.00	-3192.59	-4490.69	98.02	4490.69	-347346.00	-10116.30	10451.60	122.34	0.68	1.547
3.001	1(e)	SLU	1	1	300.00	-222585.00	5658.95	5658.95	-210.61	-4451.69	-347346.00	12048.30	-9531.49	307.97	0.72	1.561
3.501	1(e)	SLU	2	10	0.00	-198169.00	-4905.63	-4905.63	312.87	-3963.39	-198169.00	-4967.52	-4079.40	210.94	0.06	1.019
3.501	1(e)	SLU	2	10	0.00	-198169.00	-4905.63	-4905.63	312.87	-3963.39	-198169.00	-4967.52	-4079.40	210.94	0.06	1.019
6.001	1(e)	SLU	2	10	250.00	-197032.00	4235.31	4235.31	-236.58	3940.64	-197032.00	4880.55	4605.45	35.16	0.09	1.160
6.501	1(e)	SLU	3	10	0.00	-172715.00	-5803.01	-5803.01	352.45	3454.31	-172715.00	-7311.33	4286.48	154.69	0.45	1.255
6.501	1(e)	SLU	3	10	0.00	-172715.00	-5803.01	-5803.01	352.45	3454.31	-172715.00	-7311.33	4286.48	154.69	0.45	1.255
9.001	1(e)	SLU	3	10	250.00	-171578.00	4301.21	4301.21	-275.96	-3431.56	-260434.00	6860.48	-5499.93	327.66	0.50	1.518
9.501	1(e)	SLU	4	10	0.00	-147295.00	-5586.41	-5586.41	414.34	-2945.89	-147295.00	-9182.72	-4650.90	203.91	0.87	1.630
9.501	1(e)	SLU	4	10	0.00	-147295.00	-5586.41	-5586.41	414.34	-2945.89	-147295.00	-8426.30	4261.15	153.28	0.74	1.495
12.001	1(e)	SLU	4	10	250.00	-146157.00	4201.10	4201.10	-324.98	-2923.14	-246024.00	8015.25	-5285.30	327.66	0.80	1.683
15.501	1(e)	SLU	6	7	0.00	-96490.60	-5129.04	-5129.04	214.65	1929.81	-96490.60	-7978.29	2779.73	143.44	1.14	1.542
15.501	1(e)	SLU	6	7	0.00	-96490.60	-5129.04	-5129.04	214.65	1929.81	-96490.60	-6761.73	-2501.35	213.75	0.98	1.316
18.001	1(e)	SLU	6	7	250.00	-95637.50	4167.29	4167.29	-186.10	-1912.75	-95637.50	6588.20	-2755.04	323.44	1.01	1.557

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 _c <daN/cmq>	σ _f <daN/cmq>
0.002	SLE	R	1	1	0.00	-160978.00	83.04	-2362.23	0.00	16.09	84.38	1229.96
0.004	SLE	Q	1	1	0.00	-140447.00	81.87	-2138.56	0.00	16.09	74.08	1078.60
0.002	SLE	R	1	1	0.00	-160978.00	83.04	-2362.23	0.00	16.09	84.38	1229.96
0.004	SLE	Q	1	1	0.00	-140447.00	81.87	-2138.56	0.00	16.09	74.08	1078.60
3.002	SLE	R	1	1	300.00	-159478.00	-171.05	4183.50	0.00	16.09	93.55	1339.35
3.004	SLE	Q	1	1	300.00	-138947.00	-165.05	3773.10	0.00	16.09	82.27	1176.06
3.502	SLE	R	2	10	0.00	-142017.00	253.27	-3623.99	0.00	16.09	125.49	1726.52
3.504	SLE	Q	2	10	0.00	-123650.00	250.44	-3254.44	0.00	16.09	110.53	1517.26
3.502	SLE	R	2	10	0.00	-142017.00	253.27	-3623.99	0.00	16.09	125.49	1726.52
3.504	SLE	Q	2	10	0.00	-123650.00	250.44	-3254.44	0.00	16.09	110.53	1517.26
6.002	SLE	R	2	10	250.00	-141142.00	-191.94	3129.78	0.00	16.09	119.41	1657.39
6.004	SLE	Q	2	10	250.00	-122775.00	-194.14	2811.30	0.00	16.09	105.01	1454.31
6.502	SLE	R	3	10	0.00	-123762.00	282.73	-4290.05	0.00	16.09	121.38	1636.74
6.504	SLE	Q	3	10	0.00	-107582.00	288.11	-3858.10	0.00	16.09	107.19	1441.35
6.502	SLE	R	3	10	0.00	-123762.00	282.73	-4290.05	0.00	16.09	121.38	1636.74
6.504	SLE	Q	3	10	0.00	-107582.00	288.11	-3858.10	0.00	16.09	107.19	1441.35
9.002	SLE	R	3	10	250.00	-122887.00	-221.76	3179.30	0.00	16.09	109.05	1499.05
9.004	SLE	Q	3	10	250.00	-106707.00	-228.22	2858.02	0.00	16.09	95.99	1316.08
9.502	SLE	R	4	10	0.00	-105535.00	328.65	-4127.88	0.00	16.09	109.03	1456.72
9.504	SLE	Q	4	10	0.00	-91557.70	338.33	-3709.81	0.00	16.09	96.36	1283.43
9.502	SLE	R	4	10	0.00	-105535.00	328.65	-4127.88	0.00	12.06	111.67	1495.68
9.504	SLE	Q	4	10	0.00	-91557.70	338.33	-3709.81	0.00	12.06	98.68	1317.59
12.002	SLE	R	4	10	250.00	-104660.00	-257.25	3104.44	0.00	12.06	100.08	1365.88
12.004	SLE	Q	4	10	250.00	-90682.70	-265.50	2790.98	0.00	12.06	88.13	1199.28
12.502	SLE	R	5	10	0.00	-87322.90	316.64	-4258.52	0.00	12.06	101.37	1336.14
12.504	SLE	Q	5	10	0.00	-75562.80	340.76	-3826.94	0.00	12.06	89.78	1179.12
12.502	SLE	R	5	10	0.00	-87322.90	316.64	-4258.52	0.00	12.06	101.37	1336.14

Relazione di calcolo

12.50	4	SLE Q	5	10	0.00	-75562.80	340.76	-3826.94	0.00	12.06	89.78	1179.12
15.00	2	SLE R	5	10	250.00	-86447.90	-240.62	3437.09	0.00	12.06	91.78	1228.33
15.00	4	SLE Q	5	10	250.00	-74687.80	-265.98	3086.93	0.00	12.06	81.02	1080.50
15.50	2	SLE R	6	7	0.00	-69115.20	175.67	-3790.40	0.00	12.06	107.50	1403.71
15.50	4	SLE Q	6	7	0.00	-59574.90	192.79	-3402.89	0.00	12.06	95.08	1235.97
15.50	2	SLE R	6	7	0.00	-69115.20	175.67	-3790.40	0.00	8.04	114.17	1488.51
15.50	4	SLE Q	6	7	0.00	-59574.90	192.79	-3402.89	0.00	8.04	100.96	1310.54
18.00	2	SLE R	6	7	250.00	-68458.90	-152.19	3080.15	0.00	8.04	103.43	1368.72
18.00	4	SLE Q	6	7	250.00	-58918.70	-167.37	2766.12	0.00	8.04	91.20	1201.54
18.50	2	SLE R	7	7	0.00	-51144.70	206.31	-4227.35	4.02	4.02	108.00	1352.65
18.50	4	SLE Q	7	7	0.00	-43827.90	230.64	-3786.50	4.02	4.02	96.68	1201.54
18.50	2	SLE R	7	7	0.00	-51144.70	206.31	-4227.35	4.02	4.02	108.00	1352.65
18.50	4	SLE Q	7	7	0.00	-43827.90	230.64	-3786.50	4.02	4.02	96.68	1201.54
21.00	2	SLE R	7	7	250.00	-50488.50	-153.08	3227.62	0.00	8.04	90.20	1161.60
21.00	4	SLE Q	7	7	250.00	-43171.70	-172.79	2881.22	0.00	8.04	79.64	1020.13
21.50	2	SLE R	8	7	0.00	-33147.80	202.45	-4003.39	4.02	4.02	99.06	1159.03
21.50	4	SLE Q	8	7	0.00	-28065.90	228.79	-3612.48	4.02	4.02	90.88	1046.36
21.50	2	SLE R	8	7	0.00	-33147.80	202.45	-4003.39	3.08	3.08	104.31	1218.25
21.50	4	SLE Q	8	7	0.00	-28065.90	228.79	-3612.48	3.08	3.08	96.16	1103.55
24.00	2	SLE R	8	7	250.00	-32491.50	-154.40	2842.00	3.08	3.08	74.64	928.81
24.00	4	SLE Q	8	7	250.00	-27409.60	-174.98	2605.67	3.08	3.08	68.49	839.37
24.50	2	SLE R	9	7	0.00	-15089.00	155.96	-4394.65	3.08	3.08	125.33	2959.85
24.50	4	SLE Q	9	7	0.00	-12261.80	195.18	-3855.27	3.08	3.08	112.83	2761.88
24.50	2	SLE R	9	7	0.00	-15089.00	155.96	-4394.65	3.08	3.08	125.33	2959.85
24.50	4	SLE Q	9	7	0.00	-12261.80	195.18	-3855.27	3.08	3.08	112.83	2761.88
27.00	2	SLE R	9	7	250.00	-14432.70	-71.60	4109.04	3.08	3.08	113.98	2689.15
27.00	4	SLE Q	9	7	250.00	-11605.50	-111.64	3458.30	3.08	3.08	98.29	2361.99

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
21.50	4	SLE Q	8	7	0.00	-28065.90	-3612.48	228.79	39.00	206.00	0.50	16.00	169.36	2.01	114.81	650.88	0.19	0.05
21.50	4	SLE Q	8	7	0.00	-28065.90	-3612.48	228.79	39.00	208.00	0.50	14.00	189.13	1.54	122.19	765.78	0.22	0.07
21.50	3	SLE F	8	7	0.00	-29464.30	-3724.13	221.45	39.00	208.00	0.50	14.00	187.48	1.54	120.38	748.12	0.22	0.07
24.50	4	SLE Q	9	7	0.00	-12261.80	-3855.27	195.18	39.00	208.00	0.50	14.00	177.96	3.08	219.83	2761.88	1.09	0.33
24.50	3	SLE F	9	7	0.00	-13017.30	-4009.30	185.00	39.00	208.00	0.50	14.00	178.24	3.08	220.43	2825.84	1.00	0.30
24.50	4	SLE Q	9	7	0.00	-12261.80	-3855.27	195.18	39.00	208.00	0.50	14.00	177.96	3.08	219.83	2761.88	1.09	0.33
24.50	3	SLE F	9	7	0.00	-13017.30	-4009.30	185.00	39.00	208.00	0.50	14.00	178.24	3.08	220.43	2825.84	1.00	0.30
27.00	4	SLE Q	9	7	250.00	-11605.50	3458.30	-111.64	39.00	208.00	0.50	14.00	179.73	3.08	223.71	2361.99	0.90	0.27
27.00	3	SLE F	9	7	250.00	-12361.00	3644.19	-101.77	39.00	208.00	0.50	14.00	180.19	3.08	224.72	2463.24	0.82	0.25

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.50	ø8/20	2	21	SLU	0.50	0.35	102.88	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	2950.51	1.00	6357.38	0.00	0.00	0.000
0.50	2.50	ø8/20	2	21	SLU	0.50	0.35	102.88	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	2950.51	1.00	6357.38	0.00	0.00	0.000
2.50	3.00	ø8/20	2	21	SLU	0.50	0.35	102.88	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	2950.51	1.00	6357.38	0.00	0.00	0.000
3.50	3.95	ø6/15	2	21	SLU	0.35	0.35	219.78	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3656.38	1.00	3182.21	0.00	0.00	0.000
3.95	5.55	ø6/15	2	21	SLU	0.35	0.35	219.78	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3656.38	1.00	3182.21	0.00	0.00	0.000
5.55	6.00	ø6/15	2	21	SLU	0.35	0.35	219.78	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3656.38	1.00	3182.21	0.00	0.00	0.000
6.50	6.95	ø6/15	2	21	SLU	0.35	0.35	251.37	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	4041.69	1.00	3182.21	0.00	0.00	0.000
6.95	8.55	ø6/15	2	21	SLU	0.35	0.35	251.37	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	4041.69	1.00	3182.21	0.00	0.00	0.000
8.55	9.00	ø6/15	2	21	SLU	0.35	0.35	251.37	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	4041.69	1.00	3182.21	0.00	0.00	0.000
9.50	9.95	ø6/15	2	21	SLU	0.35	0.35	295.73	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3915.00	1.00	3182.21	0.00	0.00	0.000
9.95	11.55	ø6/15	2	21	SLU	0.35	0.35	295.73	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3915.00	1.00	3182.21	0.00	0.00	0.000
11.55	12.00	ø6/15	2	21	SLU	0.35	0.35	295.73	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3915.00	1.00	3182.21	0.00	0.00	0.000
12.50	12.95	ø6/15	2	21	SLU	0.35	0.35	273.28	1.59	5914.27	5914.27	0.40	0.30	4164.95	1.75	5553.77	5553.77	5553.77	1.333	1.333	1.333
12.95	14.55	ø6/15	2	21	SLU	0.35	0.35	273.28	1.61	5977.35	5977.35	0.40	0.30	4164.95	1.76	5610.24	5610.24	5610.24	1.347	1.347	1.347
14.55	15.00	ø6/15	2	21	SLU	0.35	0.35	273.28	1.67	6196.41	6196.41	0.40	0.30	4164.95	1.82	5806.56	5806.56	5806.56	1.394	1.394	1.394
15.00	15.95	ø6/15	2	21	SLU	0.35	0.25	160.30	1.00	2653.61	2309.51	0.30	0.30	3718.53	1.00	3182.21	2373.92	2373.92	0.638	0.638	0.638
15.95	17.55	ø6/15	2	21	SLU	0.35	0.25	160.30	1.00	2653.61	2381.78	0.30	0.30	3718.53	1.00	3182.21	2448.20	2448.20	0.658	0.658	0.658
17.55	18.00	ø6/15	2	21	SLU	0.35	0.25	160.30	1.00	2653.61	2638.74	0.30	0.30	3718.53	1.00	3182.21	2712.33	2712.33	0.729	0.729	0.729
18.00	18.95	ø6/15	2	21	SLU	0.35	0.25	174.00	2.50	6634.02	9736.23	0.30	0.30	4035.50	2.50	7955.54	10007.80	7955.54	1.971	1.971	1.971
18.95	20.55	ø6/15	2	21	SLU	0.35	0.25	174.00	2.50	6634.02	9786.07	0.30	0.30	4035.50	2.50	7955.54	10059.00	7955.54	1.971	1.971	1.971
20.55	21.00	ø6/15	2	21	SLU	0.35	0.25	174.00	2.50	6634.02	9963.29	0.30	0.30	4035.50	2.50	7955.54	10241.10	7955.54	1.971	1.971	1.971
21.50	21.95	ø6/15	2	21	SLU	0.35	0.25	171.55	2.50	6634.02	16455.30	0.634.02	0.30	0.30	3701.92	2.50	7955.54	16914.20	7955.54	2.149	2.149
21.95	23.55	ø6/15	2	21	SLU	0.35	0.25	171.55	2.50	6634.02	16455.30	0.634.02	0.30	0.30	3701.92	2.50	7955.54	16914.20	7955.54	2.149	2.149
23.55	24.00	ø6/15	2	21	SLU	0.35	0.25	171.55	2.50	6634.02	16455.30	0.634.02	0.30	0.30	3701.92	2.50	7955.54	16914.20	7955.54	2.149	2.149
24.50	24.95	ø6/15	2	21	SLU	0.35	0.25	98.86	2.50	6634.02	15897.30	0.634.02	0.30	0.30	4609.41	2.50	7955.54	16340.70	7955.54	1.726	1.726
24.95	26.55	ø6/15	2	21	SLU	0.35	0.25	98.86	2.50	6634.02	15877.40	0.634.02	0.30	0.30	4609.41	2.50	7955.54	16320.20	7955.54	1.726	1.726
26.55	27.00	ø6/15	2	21	SLU	0.35	0.25	98.86	2.50	6634.02	15806.50	0.634.02	0.30	0.30	4609.41	2.50	7955.54	16247.30	7955.54	1.726	1.726

Pilastrata n. 4

Nodi: 4 304 504 704 904 1104 1304 1504 1704 1904

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

Relazione di calcolo

15.00	1(e)	SLU	5	10	250.00	-120867.00	4667.04	4667.04	259.48	2417.33	-246024.00	10308.40	5456.90	28.12	1.27	2.035
18.50	1(e)	SLU	7	7	0.00	-71409.90	-5743.02	-5743.02	-202.29	-1428.20	-71409.90	-8791.09	-2176.18	205.31	1.77	1.530
18.50	1(e)	SLU	7	7	0.00	-71409.90	-5743.02	-5743.02	-202.29	-1428.20	-71409.90	-8791.09	-2176.18	205.31	1.77	1.530
21.00	1(e)	SLU	7	7	250.00	-70556.80	4380.90	4380.90	148.43	-1411.14	-70556.80	8279.64	-2774.90	329.06	1.77	1.897
21.50	1(e)	SLU	8	7	0.00	-46261.10	-5440.25	-5440.25	-191.94	-925.22	-46261.10	-8795.71	-1422.91	199.69	3.23	1.615
21.50	1(e)	SLU	8	7	0.00	-46261.10	-5440.25	-5440.25	-191.94	-925.22	-46261.10	-7988.56	-1368.17	199.69	3.30	1.469
24.00	1(e)	SLU	8	7	250.00	-45408.00	3871.34	3871.34	151.14	908.16	-45408.00	7621.68	1848.54	25.31	3.15	1.972
24.50	1(e)	SLU	9	7	0.00	-21096.60	-5962.65	-5962.65	-92.87	-421.93	-21096.60	-5962.86	-469.12	184.22	9.86	1.000
24.50	1(e)	SLU	9	7	0.00	-21096.60	-5962.65	-5962.65	-92.87	-421.93	-21096.60	-5962.86	-469.12	184.22	9.86	1.000
27.00	1(e)	SLU	9	7	250.00	-20243.50	5552.63	5552.63	-2.34	-404.87	-20243.50	5858.60	-473.53	355.78	10.14	1.056

Dati per verifiche di stabilità

Xg	El	l ₀	λ	λ*	Xg	El	l ₀	λ	λ*	Xg	El	l ₀	λ	λ*	Xg	El	l ₀	λ	λ*
<m>		<m>			<m>		<m>			<m>		<m>			<m>		<m>		
---	1	3.50	30.31	28.43	---	1	3.50	30.31	28.43	---	1	3.50	30.31	28.43	---	2	3.00	29.69	25.31
---	2	3.00	29.69	25.31	---	2	3.00	29.69	25.31	---	3	3.00	29.69	27.12	---	3	3.00	29.69	27.12
---	3	3.00	29.69	27.12	---	4	3.00	29.69	29.37	---	4	3.00	29.69	29.37	---	4	3.00	29.69	29.37
---	6	3.00	34.64	31.45	---	6	3.00	34.64	31.45	---	6	3.00	34.64	31.45					

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 _r	Sic.
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
0.00	1(e)	SLU	1	1	0.00	-224985.00	-3209.41	-4499.70	-174.91	-4499.70	-347346.00	-10093.20	-10417.20	237.66	0.67	1.544
0.00	1(e)	SLU	1	1	0.00	-224985.00	-3209.41	-4499.70	-174.91	-4499.70	-347346.00	-10093.20	-10417.20	237.66	0.67	1.544
3.00	1(e)	SLU	1	1	300.00	-223035.00	5674.29	5674.29	233.54	4460.70	-347346.00	12018.00	9506.86	52.03	0.71	1.557
3.50	1(e)	SLU	2	10	0.00	-198487.00	-4925.08	-4925.08	-317.09	-3969.74	-198487.00	-4968.74	-4027.66	210.94	0.05	1.011
3.50	1(e)	SLU	2	10	0.00	-198487.00	-4925.08	-4925.08	-317.09	-3969.74	-198487.00	-4968.74	-4027.66	210.94	0.05	1.011
6.00	1(e)	SLU	2	10	250.00	-197350.00	4252.90	4252.90	247.04	3946.99	-197350.00	4856.23	4587.87	35.16	0.08	1.151
6.50	1(e)	SLU	3	10	0.00	-172958.00	-5826.00	-5826.00	-314.49	-3459.15	-172958.00	-7292.45	-4279.72	205.31	0.44	1.248
6.50	1(e)	SLU	3	10	0.00	-172958.00	-5826.00	-5826.00	-314.49	-3459.15	-172958.00	-7292.45	-4279.72	205.31	0.44	1.248
9.00	1(e)	SLU	3	10	250.00	-171820.00	4319.77	4319.77	253.38	3436.40	-260434.00	6842.74	5490.47	32.34	0.50	1.516
9.50	1(e)	SLU	4	10	0.00	-147469.00	-5598.76	-5598.76	-321.62	-2949.37	-147469.00	-9170.83	-4647.48	203.91	0.87	1.625
9.50	1(e)	SLU	4	10	0.00	-147469.00	-5598.76	-5598.76	-321.62	-2949.37	-147469.00	-8414.55	-4259.14	206.72	0.74	1.490
12.00	1(e)	SLU	4	10	250.00	-146331.00	4211.60	4211.60	251.67	2926.62	-246024.00	8002.76	5281.65	32.34	0.79	1.681
15.50	1(e)	SLU	6	7	0.00	-96541.70	-5147.86	-5147.86	-149.76	1930.83	-96541.70	-7976.39	2779.37	143.44	1.14	1.536
15.50	1(e)	SLU	6	7	0.00	-96541.70	-5147.86	-5147.86	-149.76	1930.83	-96541.70	-6758.55	2500.94	146.25	0.98	1.311
18.00	1(e)	SLU	6	7	250.00	-95688.50	4185.69	4185.69	136.89	-1913.77	-95688.50	6585.99	-2754.22	323.44	1.01	1.551

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ _c	σ _f
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE	R	1	1	0.00	-161302.00	-137.05	-2373.87	0.00	16.09	1236.86
0.00	4	SLE	Q	1	1	0.00	-140701.00	-131.02	-2150.12	0.00	16.09	1084.66
0.00	2	SLE	R	1	1	0.00	-161302.00	-137.05	-2373.87	0.00	16.09	1236.86
0.00	4	SLE	Q	1	1	0.00	-140701.00	-131.02	-2150.12	0.00	16.09	1084.66
3.00	2	SLE	R	1	1	300.00	-159802.00	187.12	4194.11	0.00	16.09	1343.37
3.00	4	SLE	Q	1	1	300.00	-139201.00	181.39	3783.64	0.00	16.09	1179.62
3.50	2	SLE	R	2	10	0.00	-142247.00	-254.79	-3637.38	0.00	16.09	1730.27
3.50	4	SLE	Q	2	10	0.00	-123823.00	-251.78	-3266.67	0.00	16.09	1520.33
3.50	2	SLE	R	2	10	0.00	-142247.00	-254.79	-3637.38	0.00	16.09	1730.27
3.50	4	SLE	Q	2	10	0.00	-123823.00	-251.78	-3266.67	0.00	16.09	1520.33
6.00	2	SLE	R	2	10	250.00	-141372.00	198.15	3141.83	0.00	16.09	1661.46
6.00	4	SLE	Q	2	10	250.00	-122948.00	200.16	2822.86	0.00	16.09	1457.78
6.50	2	SLE	R	3	10	0.00	-123939.00	-254.99	-4305.65	0.00	16.09	1637.32
6.50	4	SLE	Q	3	10	0.00	-107711.00	-268.31	-3873.84	0.00	16.09	1442.30
6.50	2	SLE	R	3	10	0.00	-123939.00	-254.99	-4305.65	0.00	16.09	1637.32
6.50	4	SLE	Q	3	10	0.00	-107711.00	-268.31	-3873.84	0.00	16.09	1442.30
9.00	2	SLE	R	3	10	250.00	-123064.00	204.82	3191.94	0.00	16.09	1500.38
9.00	4	SLE	Q	3	10	250.00	-106836.00	217.16	2870.42	0.00	16.09	1317.53
9.50	2	SLE	R	4	10	0.00	-105663.00	-262.70	-4136.28	0.00	16.09	1452.22
9.50	4	SLE	Q	4	10	0.00	-91647.50	-285.05	-3718.37	0.00	16.09	1279.87
9.50	2	SLE	R	4	10	0.00	-105663.00	-262.70	-4136.28	0.00	12.06	1490.79
9.50	4	SLE	Q	4	10	0.00	-91647.50	-285.05	-3718.37	0.00	12.06	1313.70
12.00	2	SLE	R	4	10	250.00	-104788.00	204.86	3111.49	0.00	12.06	1362.29
12.00	4	SLE	Q	4	10	250.00	-90772.50	223.68	2798.13	0.00	12.06	1196.46
12.50	2	SLE	R	5	10	0.00	-87407.60	-293.76	-4272.68	0.00	12.06	1336.08
12.50	4	SLE	Q	5	10	0.00	-75620.60	-326.40	-3840.94	0.00	12.06	1179.69
12.50	2	SLE	R	5	10	0.00	-87407.60	-293.76	-4272.68	0.00	12.06	1336.08
12.50	4	SLE	Q	5	10	0.00	-75620.60	-326.40	-3840.94	0.00	12.06	1179.69
15.00	2	SLE	R	5	10	250.00	-86532.60	217.20	3448.30	0.00	12.06	1227.88
15.00	4	SLE	Q	5	10	250.00	-74745.60	250.30	3098.04	0.00	12.06	1080.61
15.50	2	SLE	R	6	7	0.00	-69154.00	-129.19	-3803.09	0.00	12.06	1398.12
15.50	4	SLE	Q	6	7	0.00	-59598.20	-156.45	-3415.78	0.00	12.06	1231.93
15.50	2	SLE	R	6	7	0.00	-69154.00	-129.19	-3803.09	0.00	8.04	1483.08
15.50	4	SLE	Q	6	7	0.00	-59598.20	-156.45	-3415.78	0.00	8.04	1306.66
18.00	2	SLE	R	6	7	250.00	-68497.80	116.97	3092.59	0.00	8.04	1365.15
18.00	4	SLE	Q	6	7	250.00	-58942.00	139.84	2778.79	0.00	8.04	1199.11
18.50	2	SLE	R	7	7	0.00	-51153.70	-171.65	-4242.96	4.02	4.02	1348.83
18.50	4	SLE	Q	7	7	0.00	-43825.50	-204.52	-3802.36	4.02	4.02	1199.30
18.50	2	SLE	R	7	7	0.00	-51153.70	-171.65	-4242.96	4.02	4.02	1348.83
18.50	4	SLE	Q	7	7	0.00	-43825.50	-204.52	-3802.36	4.02	4.02	1199.30
21.00	2	SLE	R	7	7	250.00	-50497.40	126.72	3235.93	0.00	8.04	1158.45
21.00	4	SLE	Q	7	7	250.00	-43169.20	153.11	2889.66	0.00	8.04	1017.99
21.50	2	SLE	R	8	7	0.00	-33142.90	-163.94	-4019.67	4.02	4.02	1152.99

Relazione di calcolo

21.50	4	SLE Q	8	7	0.00	-28052.90	-200.78	-3629.50	4.02	4.02	90.60	1042.83
21.50	2	SLE R	8	7	0.00	-33142.90	-163.94	-4019.67	3.08	3.08	103.74	1211.81
21.50	4	SLE Q	8	7	0.00	-28052.90	-200.78	-3629.50	3.08	3.08	95.88	1099.82
24.00	4	SLE R	8	7	250.00	-32486.70	128.56	2863.73	3.08	3.08	74.55	927.76
24.00	4	SLE Q	8	7	250.00	-27396.60	156.20	2627.35	3.08	3.08	68.57	839.86
24.50	2	SLE R	9	7	0.00	-15121.70	-94.01	-4401.76	3.08	3.08	122.95	2935.62
24.50	4	SLE Q	9	7	0.00	-12274.80	-147.42	-3863.96	3.08	3.08	111.06	2747.73
24.50	2	SLE R	9	7	0.00	-15121.70	-94.01	-4401.76	3.08	3.08	122.95	2935.62
24.50	4	SLE Q	9	7	0.00	-12274.80	-147.42	-3863.96	3.08	3.08	111.06	2747.73
27.00	2	SLE R	9	7	250.00	-14465.50	19.43	4095.99	3.08	3.08	111.45	2647.13
27.00	4	SLE Q	9	7	250.00	-11618.50	72.70	3446.69	3.08	3.08	96.33	2329.41

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
21.50	4	SLE Q	8	7	0.00	-28052.90	-3629.50	-200.78	39.00	206.00	0.50	16.00	172.85	2.01	119.20	653.98	0.19	0.06
21.50	3	SLE F	8	7	0.00	-29453.50	-3740.96	-190.40	39.00	206.00	0.50	16.00	171.78	2.01	117.85	638.86	0.19	0.05
21.50	4	SLE Q	8	7	0.00	-28052.90	-3629.50	-200.78	39.00	208.00	0.50	14.00	193.12	1.54	126.59	770.50	0.22	0.07
21.50	3	SLE F	8	7	0.00	-29453.50	-3740.96	-190.40	39.00	208.00	0.50	14.00	191.68	1.54	125.00	751.41	0.22	0.07
24.50	4	SLE Q	9	7	0.00	-12274.80	-3863.96	-147.42	39.00	208.00	0.50	14.00	179.97	3.08	224.24	2747.73	1.08	0.33
24.50	3	SLE F	9	7	0.00	-13034.80	-4017.58	-133.33	39.00	208.00	0.50	14.00	180.31	3.08	225.00	2809.00	0.99	0.30
24.50	4	SLE Q	9	7	0.00	-12274.80	-3863.96	-147.42	39.00	208.00	0.50	14.00	179.97	3.08	224.24	2747.73	1.08	0.33
24.50	3	SLE F	9	7	0.00	-13034.80	-4017.58	-133.33	39.00	208.00	0.50	14.00	180.31	3.08	225.00	2809.00	0.99	0.30
27.00	4	SLE Q	9	7	250.00	-11618.50	3446.69	72.70	39.00	208.00	0.50	14.00	181.42	3.08	227.44	2329.41	0.88	0.27
27.00	3	SLE F	9	7	250.00	-12378.60	3632.17	59.28	39.00	208.00	0.50	14.00	181.95	3.08	228.59	2428.16	0.79	0.25

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.50	ø8/20	2	21	SLU	0.50	0.35	136.15	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	2961.23	1.00	6357.38	0.00	0.00	0.000
0.50	2.50	ø8/20	2	21	SLU	0.50	0.35	136.15	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	2961.23	1.00	6357.38	0.00	0.00	0.000
2.50	3.00	ø8/20	2	21	SLU	0.50	0.35	136.15	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	2961.23	1.00	6357.38	0.00	0.00	0.000
3.50	3.95	ø6/15	2	21	SLU	0.35	0.35	225.65	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3671.19	1.00	3182.21	0.00	0.00	0.000
3.95	5.55	ø6/15	2	21	SLU	0.35	0.35	225.65	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3671.19	1.00	3182.21	0.00	0.00	0.000
5.55	6.00	ø6/15	2	21	SLU	0.35	0.35	225.65	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3671.19	1.00	3182.21	0.00	0.00	0.000
6.50	6.95	ø6/15	2	21	SLU	0.35	0.35	227.15	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	4058.31	1.00	3182.21	0.00	0.00	0.000
6.95	8.55	ø6/15	2	21	SLU	0.35	0.35	227.15	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	4058.31	1.00	3182.21	0.00	0.00	0.000
8.55	9.00	ø6/15	2	21	SLU	0.35	0.35	227.15	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	4058.31	1.00	3182.21	0.00	0.00	0.000
9.50	9.95	ø6/15	2	21	SLU	0.35	0.35	229.31	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3924.15	1.00	3182.21	0.00	0.00	0.000
9.95	11.55	ø6/15	2	21	SLU	0.35	0.35	229.31	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3924.15	1.00	3182.21	0.00	0.00	0.000
11.55	12.00	ø6/15	2	21	SLU	0.35	0.35	229.31	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	3924.15	1.00	3182.21	0.00	0.00	0.000
12.50	12.95	ø6/15	2	21	SLU	0.35	0.35	247.37	1.58	5878.74	5878.74	5878.74	0.40	0.30	4179.71	1.74	5521.97	5521.97	5521.97	1.321	
12.95	14.55	ø6/15	2	21	SLU	0.35	0.35	247.37	1.60	5942.19	5942.19	5942.19	0.40	0.30	4179.71	1.75	5578.76	5578.76	5578.76	1.335	
14.55	15.00	ø6/15	2	21	SLU	0.35	0.35	247.37	1.66	6162.51	6162.51	6162.51	0.40	0.30	4179.71	1.82	5776.15	5776.15	5776.15	1.382	
15.50	15.95	ø6/15	2	21	SLU	0.35	0.25	114.66	1.00	2653.61	2285.47	2285.47	0.30	0.30	3733.42	1.00	3182.21	2349.21	2349.21	0.629	
15.95	17.55	ø6/15	2	21	SLU	0.35	0.25	114.66	1.00	2653.61	2357.74	2357.74	0.30	0.30	3733.42	1.00	3182.21	2423.50	2423.50	0.649	
17.55	18.00	ø6/15	2	21	SLU	0.35	0.25	114.66	1.00	2653.61	2614.70	2614.70	0.30	0.30	3733.42	1.00	3182.21	2687.62	2687.62	0.720	
18.50	18.95	ø6/15	2	21	SLU	0.35	0.25	140.29	2.50	6634.02	9733.18	6634.02	0.30	0.30	4049.57	2.50	7955.54	10004.60	7955.54	1.965	
18.95	20.55	ø6/15	2	21	SLU	0.35	0.25	140.29	2.50	6634.02	9783.03	6634.02	0.30	0.30	4049.57	2.50	7955.54	10055.90	7955.54	1.965	
20.55	21.00	ø6/15	2	21	SLU	0.35	0.25	140.29	2.50	6634.02	9960.24	6634.02	0.30	0.30	4049.57	2.50	7955.54	10238.00	7955.54	1.965	
21.50	21.95	ø6/15	2	21	SLU	0.35	0.25	137.23	2.50	6634.02	16455.30	6634.02	0.30	0.30	3724.63	2.50	7955.54	16914.20	7955.54	2.136	
21.95	23.55	ø6/15	2	21	SLU	0.35	0.25	137.23	2.50	6634.02	16455.30	6634.02	0.30	0.30	3724.63	2.50	7955.54	16914.20	7955.54	2.136	
23.55	24.00	ø6/15	2	21	SLU	0.35	0.25	137.23	2.50	6634.02	16455.30	6634.02	0.30	0.30	3724.63	2.50	7955.54	16914.20	7955.54	2.136	
24.50	24.95	ø6/15	2	21	SLU	0.35	0.25	36.21	2.50	6634.02	15903.20	6634.02	0.30	0.30	4606.11	2.50	7955.54	16346.70	7955.54	1.727	
24.95	26.55	ø6/15	2	21	SLU	0.35	0.25	36.21	2.50	6634.02	15883.20	6634.02	0.30	0.30	4606.11	2.50	7955.54	16326.20	7955.54	1.727	
26.55	27.00	ø6/15	2	21	SLU	0.35	0.25	36.21	2.50	6634.02	15812.30	6634.02	0.30	0.30	4606.11	2.50	7955.54	16253.30	7955.54	1.727	

Pilastrata n. 5

Nodi: 5 305 505 705 905 1105 1305 1505 1705 1905

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	4.60	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/prestressoflessione

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 _y	Sic.
9.50	1(e)	SLU	4	10	0.00	-142656.00	-3781.67	-3781.67	147.09	2853.11	-260434.00	-9298.69	6889.65	149.06	1.00	1.826
9.50	1(e)	SLU	4	10	0.00	-142656.00	-3781.67	-3781.67	147.09	2853.11	-246024.00	-8541.19	6278.60	146.25	0.87	1.725
12.26	1(e)	SLU	4	10	276.00	-141400.00	3485.50	3485.50	-109.40	-2828.00	-246024.00	8177.03	-6843.44	323.44	0.90	1.740
12.50	1(e)	SLU	5	10	0.00	-118786.00	-3904.76	-3904.76	-14.24	-2375.71	-246024.00	-9928.87	-6101.40	210.94	1.32	2.071
12.50	1(e)	SLU	5	10	0.00	-118786.00	-3904.76	-3904.76	-14.24	-2375.71	-246024.00	-9928.87	-6101.40	210.94	1.32	2.071
15.26	1(e)	SLU	5	10	276.00	-117530.00	3866.76	3866.76	74.82	2350.60	-246024.00	9969.06	6115.76	30.94	1.35	2.093
18.50	1(e)	SLU	7	7	0.00	-70985.70	-3987.76	-3987.76	-39.77	-1419.71	-70985.70	-8150.84	-2928.28	212.34	1.75	2.046
18.50	1(e)	SLU	7	7	0.00	-70985.70	-3987.76	-3987.76	-39.77	-1419.71	-70985.70	-8150.84	-2928.28	212.34	1.75	2.046
21.26	1(e)	SLU	7	7	276.00	-70043.80	3763.02	3763.02	48.84	1400.88	-70043.80	8000.71	3084.70	33.75	1.78	2.136
21.50	1(e)	SLU	8	7	0.00	-47230.30	-3632.28	-3632.28	-60.40	-944.61	-47230.30	-8273.59	-2138.99	206.72	2.96	2.277
21.50	1(e)	SLU	8	7	0.00	-47230.30	-3632.28	-3632.28	-60.40	-944.61	-47230.30	-7684.04	-1864.42	205.31	3.04	2.107
24.26	1(e)	SLU	8	7	276.00	-46288.50	2995.78	2995.78	57.80	-925.77	-46288.50	7409.56	-2153.39	331.88	3.04	2.461
24.50	1(e)	SLU	9	7	0.00	-23511.20	-4677.10	-4677.10	-48.02	470.22	-23511.20	-6239.24	581.60	174.38	8.71	1.333
24.50	1(e)	SLU	9	7	0.00	-23511.20	-4677.10	-4677.10	-48.02	470.22	-23511.20	-6239.24	581.60	174.38	8.71	1.333
27.26	1(e)	SLU	9	7	276.00	-22569.30	6147.41	6147.41	46.74	451.39	-22569.30	6138.72	462.19	4.22	9.42	0.999

Relazione di calcolo

Xg	El	l ₀	λ	λ*	Xg	El	l ₀	λ	λ*	Xg	El	l ₀	λ	λ*	Xg	El	l ₀	λ	λ*
<m>		<m>			<m>		<m>			<m>		<m>			<m>		<m>		
---	1	3.50	30.31	29.05	---	1	3.50	30.31	29.05	---	1	3.50	30.31	29.05	---	2	3.00	29.69	25.83
---	2	3.00	29.69	25.83	---	2	3.00	29.69	25.83	---	3	3.00	29.69	27.63	---	3	3.00	29.69	27.63
---	3	3.00	29.69	27.63	---	6	3.00	34.64	31.75	---	6	3.00	34.64	31.75	---	6	3.00	34.64	31.75

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	ε _r	Sic.
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
0.00	1(e)	SLU	1	1	0.00	-215589.00	-2026.73	-4311.78	152.31	4311.78	-347346.00	-10588.20	11028.60	122.34	0.80	1.611
0.00	1(e)	SLU	1	1	0.00	-215589.00	-2026.73	-4311.78	152.31	4311.78	-347346.00	-10588.20	11028.60	122.34	0.80	1.611
3.26	1(e)	SLU	1	1	326.00	-213470.00	4197.00	4269.40	-337.71	-4269.40	-347346.00	10693.30	-11147.60	302.34	0.82	1.627
3.50	1(e)	SLU	2	10	0.00	-190628.00	-3343.61	3812.57	369.33	3812.57	-190628.00	5254.40	5160.91	36.56	0.20	1.366
3.50	1(e)	SLU	2	10	0.00	-190628.00	-3343.61	3812.57	369.33	3812.57	-190628.00	5254.40	5160.91	36.56	0.20	1.366
6.26	1(e)	SLU	2	10	276.00	-189373.00	3499.68	3787.45	-279.14	-3787.45	-260434.00	5351.85	-5232.22	323.44	0.22	1.375
6.50	1(e)	SLU	3	10	0.00	-166610.00	-3934.93	-3934.93	226.78	3332.21	-260434.00	-7055.83	5935.38	146.25	0.59	1.563
6.50	1(e)	SLU	3	10	0.00	-166610.00	-3934.93	-3934.93	226.78	3332.21	-260434.00	-7055.83	5935.38	146.25	0.59	1.563
9.26	1(e)	SLU	3	10	276.00	-165354.00	3587.87	3587.87	-170.72	-3307.09	-260434.00	6978.08	-6250.50	324.84	0.62	1.575
15.50	1(e)	SLU	6	7	0.00	-94795.90	-3528.61	-3528.61	-30.54	1895.92	-94795.90	-7067.66	3623.49	136.41	1.20	1.983
15.50	1(e)	SLU	6	7	0.00	-94795.90	-3528.61	-3528.61	-30.54	1895.92	-94795.90	-7067.66	3623.49	136.41	1.20	1.983
18.26	1(e)	SLU	6	7	276.00	-93854.10	3503.03	3503.03	22.33	1877.08	-93854.10	6170.11	3212.61	40.78	1.07	1.750

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ _c	σ _f
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	1	0.00	-154089.00	113.57	-1493.46	0.00	16.09	77.09	1132.27
0.00	4	SLE Q	1	1	0.00	-131901.00	80.81	-1258.03	0.00	16.09	65.78	966.75
0.00	2	SLE R	1	1	0.00	-154089.00	113.57	-1493.46	0.00	16.09	77.09	1132.27
0.00	4	SLE Q	1	1	0.00	-131901.00	80.81	-1258.03	0.00	16.09	65.78	966.75
3.26	2	SLE R	1	1	326.00	-152459.00	-249.45	3091.28	0.00	16.09	85.37	1230.49
3.26	4	SLE Q	1	1	326.00	-130271.00	-184.30	2604.43	0.00	16.09	72.57	1046.98
3.50	2	SLE R	2	10	0.00	-136207.00	272.36	-2460.52	0.00	16.09	110.32	1545.88
3.50	4	SLE Q	2	10	0.00	-116471.00	195.66	-2074.31	0.00	16.09	93.71	1314.86
3.50	2	SLE R	2	10	0.00	-136207.00	272.36	-2460.52	0.00	16.09	110.32	1545.88
3.50	4	SLE Q	2	10	0.00	-116471.00	195.66	-2074.31	0.00	16.09	93.71	1314.86
6.26	2	SLE R	2	10	276.00	-135241.00	-205.47	2576.53	0.00	16.09	110.32	1543.26
6.26	4	SLE Q	2	10	276.00	-115505.00	-137.84	2176.39	0.00	16.09	93.65	1311.59
6.50	2	SLE R	3	10	0.00	-119044.00	165.21	-2898.62	0.00	16.09	103.37	1427.03
6.50	4	SLE Q	3	10	0.00	-101723.00	93.47	-2453.12	0.00	16.09	87.67	1211.97
6.50	2	SLE R	3	10	0.00	-119044.00	165.21	-2898.62	0.00	16.09	103.37	1427.03
6.50	4	SLE Q	3	10	0.00	-101723.00	93.47	-2453.12	0.00	16.09	87.67	1211.97
9.26	2	SLE R	3	10	276.00	-118078.00	-124.23	2642.24	0.00	16.09	99.82	1385.57
9.26	4	SLE Q	3	10	276.00	-100757.00	-58.52	2233.89	0.00	16.09	84.55	1175.25
9.50	2	SLE R	4	10	0.00	-101924.00	104.84	-2784.85	0.00	16.09	91.26	1251.86
9.50	4	SLE Q	4	10	0.00	-86983.30	35.19	-2353.94	0.00	16.09	77.18	1060.39
9.50	2	SLE R	4	10	0.00	-101924.00	104.84	-2784.85	0.00	12.06	93.69	1288.09
9.50	4	SLE Q	4	10	0.00	-86983.30	35.19	-2353.94	0.00	12.06	79.22	1090.96
12.26	2	SLE R	4	10	276.00	-100958.00	-76.97	2566.54	0.00	12.06	90.60	1251.66
12.26	4	SLE Q	4	10	276.00	-86017.30	-13.47	2170.01	0.00	12.06	76.54	1059.01
12.50	2	SLE R	5	10	0.00	-84862.10	-12.77	-2876.10	0.00	12.06	82.96	1126.53
12.50	4	SLE Q	5	10	0.00	-72268.90	-77.21	-2432.06	0.00	12.06	71.09	964.52
12.50	2	SLE R	5	10	0.00	-84862.10	-12.77	-2876.10	0.00	12.06	82.96	1126.53
12.50	4	SLE Q	5	10	0.00	-72268.90	-77.21	-2432.06	0.00	12.06	71.09	964.52
15.26	2	SLE R	5	10	276.00	-83896.10	56.15	2847.94	0.00	12.06	82.47	1118.87
15.26	4	SLE Q	5	10	276.00	-71302.90	117.65	2409.47	0.00	12.06	70.63	957.16
15.50	2	SLE R	6	7	0.00	-67713.80	-23.24	-2598.54	0.00	12.06	88.62	1193.67
15.50	4	SLE Q	6	7	0.00	-57479.90	-61.41	-2202.26	0.00	12.06	75.87	1019.80
15.50	2	SLE R	6	7	0.00	-67713.80	-23.24	-2598.54	0.00	8.04	94.04	1264.57
15.50	4	SLE Q	6	7	0.00	-57479.90	-61.41	-2202.26	0.00	8.04	80.46	1079.95
18.26	2	SLE R	6	7	276.00	-66989.30	17.40	2580.07	0.00	8.04	93.08	1251.51
18.26	4	SLE Q	6	7	276.00	-56755.40	58.73	2189.31	0.00	8.04	79.62	1068.25
18.50	2	SLE R	7	7	0.00	-50713.40	-30.38	-2937.24	0.00	8.04	84.31	1099.17
18.50	4	SLE Q	7	7	0.00	-42863.90	-78.18	-2489.50	0.00	8.04	72.21	938.94
18.50	2	SLE R	7	7	0.00	-50713.40	-30.38	-2937.24	0.00	8.04	84.31	1099.17
18.50	4	SLE Q	7	7	0.00	-42863.90	-78.18	-2489.50	0.00	8.04	72.21	938.94
21.26	2	SLE R	7	7	276.00	-49988.90	37.20	2771.53	0.00	8.04	81.52	1065.97
21.26	4	SLE Q	7	7	276.00	-42139.40	80.84	2343.19	0.00	8.04	69.62	907.98
21.50	2	SLE R	8	7	0.00	-33750.90	-45.75	-2675.18	2.01	6.03	67.52	853.86
21.50	4	SLE Q	8	7	0.00	-28268.10	-93.67	-2274.83	2.01	6.03	58.19	732.09
21.50	2	SLE R	8	7	0.00	-33750.90	-45.75	-2675.18	3.08	3.08	69.78	884.65
21.50	4	SLE Q	8	7	0.00	-28268.10	-93.67	-2274.83	3.08	3.08	60.17	758.89
24.26	2	SLE R	8	7	276.00	-33026.40	44.01	2208.98	0.00	6.16	61.33	791.43
24.26	4	SLE Q	8	7	276.00	-27543.60	89.29	1896.02	0.00	6.16	52.95	679.13
24.50	2	SLE R	9	7	0.00	-16814.20	-37.94	-3442.86	3.08	3.08	92.23	1627.73
24.50	4	SLE Q	9	7	0.00	-13692.20	-90.34	-2903.00	3.08	3.08	80.20	1455.03
24.50	2	SLE R	9	7	0.00	-16814.20	-37.94	-3442.86	3.08	3.08	92.23	1627.73
24.50	4	SLE Q	9	7	0.00	-13692.20	-90.34	-2903.00	3.08	3.08	80.20	1455.03
27.26	2	SLE R	9	7	276.00	-16089.70	36.88	4526.09	3.08	3.08	123.75	2917.20
27.26	4	SLE Q	9	7	276.00	-12967.70	87.48	3770.72	3.08	3.08	105.61	2515.93

Stato limite d'esercizio - Verifiche a fessurazione

Relazione di calcolo

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.50	4	SLE Q	9	7	0.00	-13692.20	-2903.00	-90.34	39.00	208.00	0.50	14.00	169.84	3.08	201.97	1455.03	0.48	0.14
24.50	3	SLE F	9	7	0.00	-14522.50	-3057.23	-75.51	39.00	208.00	0.50	14.00	170.67	3.08	203.79	1511.73	0.44	0.13
24.50	4	SLE Q	9	7	0.00	-13692.20	-2903.00	-90.34	39.00	208.00	0.50	14.00	169.84	3.08	201.97	1455.03	0.48	0.14
24.50	3	SLE F	9	7	0.00	-14522.50	-3057.23	-75.51	39.00	208.00	0.50	14.00	170.67	3.08	203.79	1511.73	0.44	0.13
27.26	4	SLE Q	9	7	276.00	-12967.70	3770.72	87.48	39.00	208.00	0.50	14.00	180.63	3.08	225.70	2515.93	0.97	0.30
27.26	3	SLE F	9	7	276.00	-13798.00	3986.50	72.64	39.00	208.00	0.50	14.00	181.29	3.08	227.14	2638.79	0.90	0.28

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	150.31	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1909.12	1.00	6357.38	0.00	0.00	0.000
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	150.31	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1909.12	1.00	6357.38	0.00	0.00	0.000
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	150.31	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1909.12	1.00	6357.38	0.00	0.00	0.000
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	234.95	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2479.45	1.00	3182.21	0.00	0.00	0.000
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	234.95	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2479.45	1.00	3182.21	0.00	0.00	0.000
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	234.95	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2479.45	1.00	3182.21	0.00	0.00	0.000
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	144.03	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2725.65	1.00	3182.21	0.00	0.00	0.000
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	144.03	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2725.65	1.00	3182.21	0.00	0.00	0.000
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	144.03	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2725.65	1.00	3182.21	0.00	0.00	0.000
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	92.93	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2633.03	1.00	3182.21	0.00	0.00	0.000
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	92.93	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2633.03	1.00	3182.21	0.00	0.00	0.000
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	92.93	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2633.03	1.00	3182.21	0.00	0.00	0.000
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	32.27	1.83	6808.08	6808.08	6808.08	6808.08	0.40	0.30	2815.77	2.00	6356.21	6356.21	6356.21	2.257
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	32.27	1.85	6864.16	6864.16	6864.16	6864.16	0.40	0.30	2815.77	2.01	6406.70	6406.70	6406.70	2.275
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	32.27	1.91	7084.04	7084.04	7084.04	7084.04	0.40	0.30	2815.77	2.08	6604.80	6604.80	6604.80	2.346
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	19.16	1.16	3073.79	3073.79	3073.79	3073.79	0.30	0.30	2547.69	1.00	3193.68	3193.68	3193.68	1.254
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	19.16	1.18	3136.91	3136.91	3136.91	3136.91	0.30	0.30	2547.69	1.03	3268.47	3268.47	3268.47	1.283
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	19.16	1.27	3377.66	3377.66	3377.66	3377.66	0.30	0.30	2547.69	1.12	3551.91	3551.91	3551.91	1.394
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	32.11	2.50	6634.02	9870.88	6634.02	6634.02	0.30	0.30	2808.26	2.50	7955.54	10146.20	7955.54	2.833
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	32.11	2.50	6634.02	9921.82	6634.02	6634.02	0.30	0.30	2808.26	2.50	7955.54	10198.50	7955.54	2.833
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	32.11	2.50	6634.02	10125.60	6634.02	6634.02	0.30	0.30	2808.25	2.50	7955.54	10408.00	7955.54	2.833
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	42.83	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	2401.47	2.50	7955.54	16914.20	7955.54	3.313
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	42.83	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	2401.47	2.50	7955.54	16914.20	7955.54	3.313
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	42.83	2.50	6634.02	16455.30	6634.02	6634.02	0.30	0.30	2401.47	2.50	7955.54	16914.20	7955.54	3.313
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	34.33	2.50	6634.02	16216.60	6634.02	6634.02	0.30	0.30	3921.92	2.50	7955.54	16668.90	7955.54	2.028
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	34.33	2.50	6634.02	16196.30	6634.02	6634.02	0.30	0.30	3921.92	2.50	7955.54	16648.00	7955.54	2.028
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	34.33	2.50	6634.02	16114.70	6634.02	6634.02	0.30	0.30	3921.92	2.50	7955.54	16564.20	7955.54	2.028

Pilastrata n. 6

Nodi: 6 306 506 706 906 1106 1306 1506 1706 1906

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 _r	Sic.
9.50	1(e)	SLU	4	10	0.00	-129415.00	-2881.10	-2881.10	-1548.72	-2588.31	-260434.00	-9089.61	-8131.63	215.16	1.26	2.012
9.50	1(e)	SLU	4	10	0.00	-129415.00	-2881.10	-2881.10	-1548.72	-2588.31	-246024.00	-8401.90	-7410.29	217.97	1.14	1.901
12.26	1(e)	SLU	4	10	276.00	-128160.00	2661.42	2661.42	1517.39	2563.19	-246024.00	8197.18	7715.38	39.38	1.17	1.920
12.50	1(e)	SLU	5	10	0.00	-107064.00	-2954.81	-2954.81	-1882.11	-2141.29	-246024.00	-9790.83	-6863.61	213.75	1.59	2.298
12.50	1(e)	SLU	5	10	0.00	-107064.00	-2954.81	-2954.81	-1882.11	-2141.29	-231615.00	-8693.52	-6494.33	212.34	1.48	2.163
15.26	1(e)	SLU	5	10	276.00	-105809.00	2903.33	2903.33	1891.95	2116.17	-231615.00	8717.43	6509.27	32.34	1.51	2.189
18.50	1	SLU	7	7	0.00	-63555.40	-2959.14	-2959.14	-1546.64	-1546.64	-63555.40	-7319.35	-3691.33	219.38	2.01	2.455
18.50	1	SLU	7	7	0.00	-63555.40	-2959.14	-2959.14	-1546.64	-1546.64	-63555.40	-6794.62	-3447.43	219.38	2.01	2.282
21.26	1	SLU	7	7	276.00	-62613.50	2809.87	2809.87	1478.95	1478.95	-62613.50	6780.01	3441.67	39.38	2.05	2.395
21.50	1	SLU	8	7	0.00	-42301.90	-2675.19	-2675.19	-1660.15	-1660.15	-42301.90	-5910.97	-3535.52	222.19	3.02	2.188
21.50	1	SLU	8	7	0.00	-42301.90	-2675.19	-2675.19	-1660.15	-1660.15	-42301.90	-5910.97	-3535.52	222.19	3.02	2.188
24.26	1	SLU	8	7	276.00	-41360.00	2158.84	2158.84	1587.90	1587.90	-41360.00	5437.07	3923.18	46.41	3.04	2.502
24.50	1	SLU	9	7	0.00	-21291.90	-3527.04	-3527.04	-1854.77	-1854.77	-21291.90	-5232.26	-2723.93	216.56	4.81	1.480
24.50	1	SLU	9	7	0.00	-21291.90	-3527.04	-3527.04	-1854.77	-1854.77	-21291.90	-5232.26	-2723.93	216.56	4.81	1.480
27.26	1	SLU	9	7	276.00	-20350.10	4811.38	4811.38	1846.29	1846.29	-20350.10	5483.09	2050.59	25.31	5.79	1.136

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*
---	1	3.50	30.31	30.29	---	1	3.50	30.31	30.29	---	1	3.50	30.31	30.29	---	2	3.00	29.69	27.00
---	2	3.00	29.69	27.00	---	2	3.00	29.69	27.00	---	3	3.00	29.69	28.95	---	3	3.00	29.69	28.95
---	3	3.00	29.69	28.95	---	6	3.00	34.64	33.54	---	6	3.00	34.64	33.54	---	6	3.00	34.64	33.54

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Relazione di calcolo

18.26	1(e)	SLU	6	7	276.00	-84039.20	2592.21	2592.21	1231.13	1680.78	-180916.00	5856.96	3826.38	45.00	1.33	2.153
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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 _c <daN/cmq>	σ _f <daN/cmq>
0.00	2	SLE R	1	1	0.00	-141684.00	-296.09	-1104.88	0.00	16.09	70.75	1038.71
0.00	4	SLE Q	1	1	0.00	-122036.00	-223.22	-923.23	0.00	16.09	60.59	890.54
0.00	2	SLE R	1	1	0.00	-141684.00	-296.09	-1104.88	0.00	16.09	70.75	1038.71
0.00	4	SLE Q	1	1	0.00	-122036.00	-223.22	-923.23	0.00	16.09	60.59	890.54
3.26	2	SLE R	1	1	326.00	-140054.00	509.71	2349.52	0.00	16.09	77.74	1120.82
3.26	4	SLE Q	1	1	326.00	-120406.00	379.12	1963.94	0.00	16.09	66.17	955.72
3.50	2	SLE R	2	10	0.00	-124586.00	-712.50	-1896.67	0.00	16.09	101.36	1421.05
3.50	4	SLE Q	2	10	0.00	-107132.00	-532.79	-1582.96	0.00	16.09	85.98	1208.62
3.50	2	SLE R	2	10	0.00	-124586.00	-712.50	-1896.67	0.00	16.09	101.36	1421.05
3.50	4	SLE Q	2	10	0.00	-107132.00	-532.79	-1582.96	0.00	16.09	85.98	1208.62
6.26	2	SLE R	2	10	276.00	-123620.00	750.35	1959.05	0.00	16.09	101.74	1422.95
6.26	4	SLE Q	2	10	276.00	-106166.00	566.98	1636.18	0.00	16.09	86.23	1209.14
6.50	2	SLE R	3	10	0.00	-108413.00	-942.06	-2178.44	0.00	16.09	96.37	1327.59
6.50	4	SLE Q	3	10	0.00	-93118.60	-718.14	-1822.32	0.00	16.09	81.49	1125.75
6.50	2	SLE R	3	10	0.00	-108413.00	-942.06	-2178.44	0.00	16.09	96.37	1327.59
6.50	4	SLE Q	3	10	0.00	-93118.60	-718.14	-1822.32	0.00	16.09	81.49	1125.75
9.26	2	SLE R	3	10	276.00	-107447.00	952.53	1997.73	0.00	16.09	94.04	1299.70
9.26	4	SLE Q	3	10	276.00	-92152.60	728.20	1669.70	0.00	16.09	79.44	1100.95
9.50	2	SLE R	4	10	0.00	-92363.90	-1123.62	-2121.42	0.00	16.09	87.60	1192.77
9.50	4	SLE Q	4	10	0.00	-79206.30	-860.68	-1772.68	0.00	16.09	73.75	1007.37
9.50	2	SLE R	4	10	0.00	-92363.90	-1123.62	-2121.42	0.00	12.06	90.39	1232.37
9.50	4	SLE Q	4	10	0.00	-79206.30	-860.68	-1772.68	0.00	12.06	76.09	1040.65
12.26	2	SLE R	4	10	276.00	-91397.90	1099.53	1959.13	0.00	12.06	87.91	1202.57
12.26	4	SLE Q	4	10	276.00	-78240.30	845.03	1637.50	0.00	12.06	73.96	1014.77
12.50	2	SLE R	5	10	0.00	-76404.80	-1362.18	-2175.79	0.00	12.06	83.07	1112.47
12.50	4	SLE Q	5	10	0.00	-65366.30	-1046.94	-1818.03	0.00	12.06	69.53	934.27
12.50	2	SLE R	5	10	0.00	-76404.80	-1362.18	-2175.79	0.00	8.04	86.33	1155.94
12.50	4	SLE Q	5	10	0.00	-65366.30	-1046.94	-1818.03	0.00	8.04	72.29	971.16
15.26	2	SLE R	5	10	276.00	-75438.80	1369.24	2137.78	0.00	8.04	85.35	1142.67
15.26	4	SLE Q	5	10	276.00	-64400.30	1047.92	1786.83	0.00	8.04	71.32	958.06
15.50	2	SLE R	6	7	0.00	-60635.50	-809.96	-1930.69	0.00	8.04	91.68	1205.64
15.50	4	SLE Q	6	7	0.00	-51682.70	-620.03	-1615.38	0.00	8.04	76.58	1011.18
15.50	2	SLE R	6	7	0.00	-60635.50	-809.96	-1930.69	0.00	8.04	91.68	1205.64
15.50	4	SLE Q	6	7	0.00	-51682.70	-620.03	-1615.38	0.00	8.04	76.58	1011.18
18.26	2	SLE R	6	7	276.00	-59911.00	889.39	1908.59	0.00	8.04	92.06	1206.42
18.26	4	SLE Q	6	7	276.00	-50958.20	683.24	1598.16	0.00	8.04	76.76	1009.96
18.50	2	SLE R	7	7	0.00	-45353.00	-1116.03	-2178.73	0.00	8.04	87.33	1101.58
18.50	4	SLE Q	7	7	0.00	-38451.10	-861.86	-1823.45	0.00	8.04	72.23	915.12
18.50	2	SLE R	7	7	0.00	-45353.00	-1116.03	-2178.73	0.00	6.16	90.00	1138.87
18.50	4	SLE Q	7	7	0.00	-38451.10	-861.86	-1823.45	0.00	6.16	74.42	945.80
21.26	2	SLE R	7	7	276.00	-44628.50	1066.83	2068.80	0.00	6.16	86.84	1102.15
21.26	4	SLE Q	7	7	276.00	-37726.60	825.62	1728.38	0.00	6.16	71.75	914.28
21.50	2	SLE R	8	7	0.00	-30192.40	-1195.76	-1969.32	1.54	4.62	78.75	955.12
21.50	4	SLE Q	8	7	0.00	-25322.00	-926.58	-1650.20	1.54	4.62	64.23	782.69
21.50	2	SLE R	8	7	0.00	-30192.40	-1195.76	-1969.32	1.54	4.62	78.75	955.12
21.50	4	SLE Q	8	7	0.00	-25322.00	-926.58	-1650.20	1.54	4.62	64.23	782.69
24.26	2	SLE R	8	7	276.00	-29467.90	1143.04	1592.03	1.54	4.62	69.81	857.89
24.26	4	SLE Q	8	7	276.00	-24597.50	884.90	1340.46	1.54	4.62	56.99	703.20
24.50	2	SLE R	9	7	0.00	-15203.30	-1336.90	-2593.86	3.08	3.08	113.75	1617.52
24.50	4	SLE Q	9	7	0.00	-12321.40	-1045.06	-2168.56	3.08	3.08	93.04	1350.10
24.50	2	SLE R	9	7	0.00	-15203.30	-1336.90	-2593.86	3.08	3.08	113.75	1617.52
24.50	4	SLE Q	9	7	0.00	-12321.40	-1045.06	-2168.56	3.08	3.08	93.04	1350.10
27.26	2	SLE R	9	7	276.00	-14478.80	1332.40	3539.16	3.08	3.08	146.84	2713.64
27.26	4	SLE Q	9	7	276.00	-11596.90	1051.64	2944.19	3.08	3.08	120.56	2285.26

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.50	4	SLE Q	9	7	0.00	-12321.40	-2168.56	-1045.06	39.00	208.00	0.50	14.00	151.48	1.54	80.80	1350.10	0.47	0.12
24.50	3	SLE F	9	7	0.00	-13077.90	-2290.14	-1128.79	39.00	208.00	0.50	14.00	150.87	1.54	80.13	1434.93	0.42	0.11
24.50	4	SLE Q	9	7	0.00	-12321.40	-2168.56	-1045.06	39.00	208.00	0.50	14.00	151.48	1.54	80.80	1350.10	0.47	0.12
24.50	3	SLE F	9	7	0.00	-13077.90	-2290.14	-1128.79	39.00	208.00	0.50	14.00	150.87	1.54	80.13	1434.93	0.42	0.11
27.26	4	SLE Q	9	7	276.00	-11596.90	2944.19	1051.64	39.00	208.00	0.50	14.00	180.31	1.54	112.50	2285.26	0.86	0.26
27.26	3	SLE F	9	7	276.00	-12353.40	3114.27	1133.54	39.00	208.00	0.50	14.00	179.03	1.54	111.09	2418.43	0.80	0.24

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	335.26	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1437.57	1.00	6357.38	0.00	0.00	0.000
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	335.26	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1437.57	1.00	6357.38	0.00	0.00	0.000
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	335.26	1.00	4947.76	0.00	0.00	0.00	0.40	0.45	1437.57	1.00	6357.38	0.00	0.00	0.000
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	723.97	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1898.17	1.00	3182.21	0.00	0.00	0.000
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	723.97	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1898.17	1.00	3182.21	0.00	0.00	0.000
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	723.97	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	1898.17	1.00	3182.21	0.00	0.00	0.000
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	944.05	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2054.80	1.00	3182.21	0.00	0.00	0.000
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	944.05	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2054.80	1.00	3182.21	0.00	0.00	0.000
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	944.05	1.00	3710.82	0.00	0.00	0.00	0.40	0.30	2054.80	1.00	3182.21	0.00	0.00	0.000
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	1110.91	1.00	3710.82	2853.86	2853.86	0.40	0.30	2008.16	1.00	3182.21	2796.95	2796.95	1.393	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	1110.91	1.00	3710.82	2957.17	2957.17	0.40	0.30	2008.16	1.00	3182.21	2898.20	2898.20	1.443	

Relazione di calcolo

11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	1110.91	1.00	3710.82	3370.41	3370.41	0.40	0.30	2008.16	1.04	3300.98	3300.98	3300.98	1.644
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	1367.41	2.50	9277.05	9576.69	9277.05	0.40	0.30	2122.52	2.50	7955.54	9385.70	7955.54	3.748
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	1367.41	2.50	9277.05	9647.94	9277.05	0.40	0.30	2122.52	2.50	7955.54	9455.53	7955.54	3.748
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	1367.41	2.50	9277.05	9932.93	9277.05	0.40	0.30	2122.52	2.50	7955.54	9734.83	7955.54	3.748
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	851.97	2.20	5827.76	5827.76	5827.76	0.30	0.30	1889.45	2.00	6357.47	6357.47	6357.47	3.365
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	851.97	2.21	5861.30	5861.30	5861.30	0.30	0.30	1889.45	2.01	6395.37	6395.37	6395.37	3.385
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	851.97	2.26	5993.60	5993.59	5993.59	0.30	0.30	1889.45	2.06	6544.77	6544.76	6544.76	3.464
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	1096.23	2.50	6634.02	12282.50	6634.02	0.30	0.30	2090.22	2.50	7955.54	12625.00	7955.54	3.806
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	1096.23	2.50	6634.02	12333.50	6634.02	0.30	0.30	2090.22	2.50	7955.54	12677.40	7955.54	3.806
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	1096.23	2.50	6634.02	12537.30	6634.02	0.30	0.30	2090.22	2.50	7955.54	12886.90	7955.54	3.806
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	1176.83	2.50	6634.02	16455.30	6634.02	0.30	0.30	1751.46	2.50	7955.54	16914.20	7955.54	4.542
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	1176.83	2.50	6634.02	16455.30	6634.02	0.30	0.30	1751.46	2.50	7955.54	16914.20	7955.54	4.542
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	1176.83	2.50	6634.02	16455.30	6634.02	0.30	0.30	1751.46	2.50	7955.54	16914.20	7955.54	4.542
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	1340.96	2.50	6634.02	15928.50	6634.02	0.30	0.30	3021.17	2.50	7955.54	16372.70	7955.54	2.633
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	1340.96	2.50	6634.02	15908.10	6634.02	0.30	0.30	3021.17	2.50	7955.54	16351.80	7955.54	2.633
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	1340.96	2.50	6634.02	15826.60	6634.02	0.30	0.30	3021.17	2.50	7955.54	16268.00	7955.54	2.633

Pilastrata n. 7

Nodi: 7 307 507 707 907 1107 1307 1507 1707 1907

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>
24R		25.00	50.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
9R		25.00	35.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
9R		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 _x	Sic.
15.50	1(e)	SLU	6	9	0.00	-38363.10	-10.29	-767.26	-1966.44	-1966.44	-38363.10	-2292.31	-5924.25	254.53	2.71	3.009
15.50	1(e)	SLU	6	9	0.00	-38363.10	-10.29	-767.26	-1966.44	-1966.44	-38363.10	-2035.98	-4998.08	255.94	2.83	2.557
18.26	1(e)	SLU	6	9	276.00	-37578.20	26.04	751.57	1944.00	1944.00	-37578.20	2026.28	4982.38	75.94	2.88	2.581
18.50	1(e)	SLU	7	9	0.00	-28781.70	-66.77	-575.63	-2126.91	-2126.91	-28781.70	-1348.67	-4851.37	261.56	4.17	2.285
18.50	1(e)	SLU	7	9	0.00	-28781.70	-66.77	-575.63	-2126.91	-2126.91	-28781.70	-1348.67	-4851.37	261.56	4.17	2.285
21.26	1(e)	SLU	7	9	276.00	-27996.80	93.25	559.94	2109.54	2109.54	-27996.80	1201.10	4832.29	82.97	4.48	2.281
21.50	1(e)	SLU	8	9	0.00	-18996.20	-13.82	-379.92	-2219.05	-2219.05	-18996.20	-725.90	-4248.47	266.48	6.55	1.914
21.50	1(e)	SLU	8	9	0.00	-18996.20	-13.82	-379.92	-2219.05	-2219.05	-18996.20	-654.73	-3742.66	266.48	7.04	1.688
24.26	1(e)	SLU	8	9	276.00	-18211.30	-74.50	-364.23	2129.92	2129.92	-18211.30	-660.33	3681.69	93.52	7.24	1.731
24.50	1(e)	SLU	9	9	0.00	-8987.66	-101.57	-179.75	-2589.00	-2589.00	-8987.66	-162.13	-2919.09	269.12	10.62	1.127
24.50	1(e)	SLU	9	9	0.00	-8987.66	-101.57	-179.75	-2589.00	-2589.00	-8987.66	-162.13	-2919.09	269.12	10.62	1.127
27.26	1	SLU	9	9	276.00	-8202.78	466.29	466.29	2842.94	2842.94	-8202.78	466.68	2885.22	87.89	10.53	1.015

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*
---	1	3.50	48.50	36.80	---	1	3.50	48.50	36.80	---	1	3.50	48.50	36.80	---	2	3.00	41.57	32.56
---	2	3.00	41.57	32.56	---	2	3.00	41.57	32.56	---	3	3.00	41.57	34.68	---	3	3.00	41.57	34.68
---	3	3.00	41.57	34.68	---	4	3.00	41.57	37.36	---	4	3.00	41.57	37.36	---	4	3.00	41.57	37.36
---	5	3.00	41.57	40.87	---	5	3.00	41.57	40.87	---	5	3.00	41.57	40.87	---				

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 _x	Sic.
0.00	1(e)	SLU	1	24	0.00	-84215.80	337.13	1684.32	-604.37	-1684.32	-238706.00	5771.70	-5834.87	283.36	1.85	2.834
0.00	1(e)	SLU	1	24	0.00	-84215.80	337.13	1684.32	-604.37	-1684.32	-238706.00	5771.70	-5834.87	283.36	1.85	2.834
3.26	1(e)	SLU	1	24	326.00	-82891.40	-415.39	-1657.83	1092.18	1657.83	-238706.00	-5788.62	5840.01	103.36	1.89	2.880
3.50	1(e)	SLU	2	9	0.00	-75114.80	77.69	1502.30	-1391.15	-1502.30	-184385.00	4432.62	-4293.47	296.72	1.40	2.455
3.50	1(e)	SLU	2	9	0.00	-75114.80	77.69	1502.30	-1391.15	-1502.30	-184385.00	4432.62	-4293.47	296.72	1.40	2.455
6.26	1(e)	SLU	2	9	276.00	-74329.90	-88.42	-1486.60	1387.27	1486.60	-184385.00	-4443.75	4306.23	116.72	1.42	2.481
6.50	1(e)	SLU	3	9	0.00	-66245.60	139.68	1324.91	-1544.24	-1544.24	-184385.00	4030.20	-4628.09	293.91	1.63	2.783
6.50	1(e)	SLU	3	9	0.00	-66245.60	139.68	1324.91	-1544.24	-1544.24	-184385.00	4030.20	-4628.09	293.91	1.63	2.783
9.26	1(e)	SLU	3	9	276.00	-65460.70	-115.75	-1309.21	1553.79	1553.79	-184385.00	-3771.14	4724.17	112.50	1.65	2.817
9.50	1(e)	SLU	4	9	0.00	-57135.80	79.52	1142.72	-1718.19	-1718.19	-57135.80	3184.67	-5116.49	288.98	1.91	2.921
9.50	1(e)	SLU	4	9	0.00	-57135.80	79.52	-1142.72	-1718.19	-1718.19	-57135.80	-2928.05	-4729.64	247.50	1.81	2.696
12.26	1(e)	SLU	4	9	276.00	-56350.90	-72.88	1127.02	1707.84	1707.84	-56350.90	2908.33	4747.95	67.50	1.84	2.721
12.50	1(e)	SLU	5	9	0.00	-47819.40	67.88	-956.39	-1862.69	-1862.69	-47819.40	-2407.50	-5114.70	251.02	2.21	2.700
12.50	1(e)	SLU	5	9	0.00	-47819.40	67.88	-956.39	-1862.69	-1862.69	-47819.40	-2407.50	-5114.70	251.02	2.21	2.700
15.26	1(e)	SLU	5	9	276.00	-47034.60	-43.21	940.69	1830.70	1830.70	-47034.60	2413.27	5115.89	71.02	2.24	2.748

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 _c <daN/cm²>	σ _t <daN/cm²>
0.00	2	SLE	R	1	24	0.00	-60365.20	-424.44	256.47	0.00	16.09	49.36
0.00	4	SLE	Q	1	24	0.00	-53810.00	-369.37	243.15	0.00	16.09	43.96
0.00	2	SLE	R	1	24	0.00	-60365.20	-424.44	256.47	0.00	16.09	49.36
0.00	4	SLE	Q	1	24	0.00	-53810.00	-369.37	243.15	0.00	16.09	43.96
3.26	2	SLE	R	1	24	326.00	-59346.40	767.02	-321.34	0.00	16.09	54.79
3.26	4	SLE	Q	1	24	326.00	-52791.30	667.34	-323.56	0.00	16.09	48.77
3.50	2	SLE	R	2	9	0.00	-53809.10	-977.35	70.56	0.00	16.09	70.83
3.50	4	SLE	Q	2	9	0.00	-47828.50	-845.19	97.92	0.00	16.09	62.96
3.50	2	SLE	R	2	9	0.00	-53809.10	-977.35	70.56	0.00	16.09	70.83
3.50	4	SLE	Q	2	9	0.00	-47828.50	-845.19	97.92	0.00	16.09	62.96
6.26	2	SLE	R	2	9	276.00	-53205.40	975.08	-79.34	0.00	16.09	70.37

Relazione di calcolo

6.264	SLE Q	2	9	276.00	-47224.80	839.50	-105.94	0.00	16.09	62.41	825.27
6.502	SLE R	3	9	0.00	-47452.40	-1086.18	118.65	0.00	16.09	68.25	881.39
6.504	SLE Q	3	9	0.00	-42097.10	-928.91	138.22	0.00	16.09	60.27	780.07
6.502	SLE R	3	9	0.00	-47452.40	-1086.18	118.65	0.00	16.09	68.25	881.39
6.504	SLE Q	3	9	0.00	-42097.10	-928.91	138.22	0.00	16.09	60.27	780.07
9.262	SLE R	3	9	276.00	-46848.70	1093.07	-101.23	0.00	16.09	67.61	871.89
9.264	SLE Q	3	9	276.00	-41493.30	932.51	-121.28	0.00	16.09	59.56	769.96
9.502	SLE R	4	9	0.00	-40924.90	-1209.29	75.00	0.00	16.09	64.48	812.09
9.504	SLE Q	4	9	0.00	-36234.00	-1026.54	98.77	0.00	16.09	56.59	715.10
9.502	SLE R	4	9	0.00	-40924.90	-1209.29	75.00	0.00	12.06	66.67	844.60
9.504	SLE Q	4	9	0.00	-36234.00	-1026.54	98.77	0.00	12.06	58.58	744.36
12.262	SLE R	4	9	276.00	-40321.20	1202.19	-70.35	0.00	12.06	65.87	833.73
12.264	SLE Q	4	9	276.00	-35630.20	1018.43	-92.65	0.00	12.06	57.73	733.02
12.502	SLE R	5	9	0.00	-34251.20	-1311.44	67.49	0.00	12.06	62.49	769.60
12.504	SLE Q	5	9	0.00	-30258.60	-1107.81	90.36	0.00	12.06	54.58	674.80
12.502	SLE R	5	9	0.00	-34251.20	-1311.44	67.49	0.00	12.06	62.49	769.60
12.504	SLE Q	5	9	0.00	-30258.60	-1107.81	90.36	0.00	12.06	54.58	674.80
15.262	SLE R	5	9	276.00	-33647.50	1288.87	-49.07	0.00	12.06	61.12	753.11
15.264	SLE Q	5	9	276.00	-29654.80	1087.70	-72.96	0.00	12.06	53.28	659.00
15.502	SLE R	6	9	0.00	-27479.20	-1384.25	11.26	0.00	12.06	57.12	680.68
15.504	SLE Q	6	9	0.00	-24204.40	-1167.64	41.15	0.00	12.06	49.56	593.80
15.502	SLE R	6	9	0.00	-27479.20	-1384.25	11.26	0.00	8.04	60.91	724.79
15.504	SLE Q	6	9	0.00	-24204.40	-1167.64	41.15	0.00	8.04	52.79	631.72
18.262	SLE R	6	9	276.00	-26875.40	1368.49	0.98	0.00	8.04	59.81	710.55
18.264	SLE Q	6	9	276.00	-23600.70	1154.60	-29.04	0.00	8.04	51.71	617.78
18.502	SLE R	7	9	0.00	-20619.90	-1497.60	-29.67	4.02	4.02	61.47	673.28
18.504	SLE Q	7	9	0.00	-18075.40	-1261.46	5.29	4.02	4.02	51.49	570.62
18.502	SLE R	7	9	0.00	-20619.90	-1497.60	-29.67	4.02	4.02	61.47	673.28
18.504	SLE Q	7	9	0.00	-18075.40	-1261.46	5.29	4.02	4.02	51.49	570.62
21.262	SLE R	7	9	276.00	-20016.10	1485.70	49.70	4.02	4.02	61.37	667.81
21.264	SLE Q	7	9	276.00	-17471.60	1249.54	11.36	4.02	4.02	51.04	561.66
21.502	SLE R	8	9	0.00	-13615.30	-1563.20	9.71	4.02	4.02	65.38	658.37
21.504	SLE Q	8	9	0.00	-11828.70	-1318.02	35.05	4.02	4.02	55.70	533.64
21.502	SLE R	8	9	0.00	-13615.30	-1563.20	9.71	3.08	3.08	69.78	793.35
21.504	SLE Q	8	9	0.00	-11828.70	-1318.02	35.05	3.08	3.08	59.37	640.24
24.262	SLE R	8	9	276.00	-13011.60	1500.83	-71.05	3.08	3.08	68.96	789.91
24.264	SLE Q	8	9	276.00	-11224.90	1269.36	-82.38	3.08	3.08	58.81	651.67
24.502	SLE R	9	9	0.00	-6452.13	-1823.94	-47.00	3.08	3.08	89.44	2228.82
24.504	SLE Q	9	9	0.00	-5461.60	-1503.18	-5.70	3.08	3.08	72.29	1799.35
24.502	SLE R	9	9	0.00	-6452.13	-1823.94	-47.00	3.08	3.08	89.44	2228.82
24.504	SLE Q	9	9	0.00	-5461.60	-1503.18	-5.70	3.08	3.08	72.29	1799.35
27.262	SLE R	9	9	276.00	-5848.38	2002.14	310.70	3.08	3.08	109.50	2767.36
27.264	SLE Q	9	9	276.00	-4857.85	1619.14	215.15	3.08	3.08	86.98	2199.28

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.504	SLE	Q	9	9	0.00	-5461.60	-5.70	-1503.18	39.00	258.00	0.50	14.00	169.71	3.08	201.69	1799.35	0.64	0.19
24.503	SLE	F	9	9	0.00	-5718.05	-17.60	-1591.60	39.00	258.00	0.50	14.00	169.34	3.08	200.86	1920.50	0.59	0.17
24.504	SLE	Q	9	9	0.00	-5461.60	-5.70	-1503.18	39.00	258.00	0.50	14.00	169.71	3.08	201.69	1799.35	0.64	0.19
24.503	SLE	F	9	9	0.00	-5718.05	-17.60	-1591.60	39.00	258.00	0.50	14.00	169.34	3.08	200.86	1920.50	0.59	0.17
27.264	SLE	Q	9	9	276.00	-4857.85	215.15	1619.14	39.00	258.00	0.50	14.00	162.90	3.08	186.69	2199.28	0.85	0.24
27.263	SLE	F	9	9	276.00	-5114.30	242.56	1722.23	39.00	258.00	0.50	14.00	162.46	3.08	185.74	2354.62	0.82	0.23

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	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	520.41	2.50	7083.33	11383.00	7083.33	0.25	0.45	230.84	2.20	13965.10	13965.10	13965.10	13.611	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.20	520.41	2.50	7083.33	11451.80	7083.33	0.25	0.45	230.84	2.20	14016.00	14016.00	14016.00	13.611	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.20	520.41	2.50	7083.33	11727.20	7083.33	0.25	0.45	230.84	2.24	14217.80	14217.80	14217.80	13.611	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.20	1006.68	1.73	3676.95	3676.95	3676.95	0.25	0.30	60.19	1.36	4331.65	4331.65	4331.65	3.653	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.20	1006.68	1.75	3710.98	3710.98	3710.98	0.25	0.30	60.19	1.38	4377.90	4377.90	4377.90	3.686	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.20	1006.68	1.81	3844.10	3844.10	3844.10	0.25	0.30	60.19	1.43	4558.17	4558.17	4558.17	3.819	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.20	1122.48	2.50	5312.50	5692.94	5312.50	0.25	0.30	92.55	2.13	6787.46	6787.46	6787.46	4.733	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.20	1122.48	2.50	5312.50	5733.74	5312.50	0.25	0.30	92.55	2.14	6817.07	6817.06	6817.06	4.733	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.20	1122.48	2.50	5312.50	5896.94	5312.50	0.25	0.30	92.55	2.18	6934.22	6934.22	6934.22	4.733	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.20	1241.32	2.50	5312.50	8534.26	5312.50	0.25	0.30	55.22	2.50	7955.54	9128.69	7955.54	4.280	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.20	1241.32	2.50	5312.50	8575.06	5312.50	0.25	0.30	55.22	2.50	7955.54	9172.33	7955.54	4.280	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.20	1241.32	2.50	5312.50	8738.26	5312.50	0.25	0.30	55.22	2.50	7955.54	9346.90	7955.54	4.280	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.20	1338.18	2.50	5312.50	11440.00	5312.50	0.25	0.30	40.25	2.50	7955.54	12236.80	7955.54	3.970	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.20	1338.18	2.50	5312.50	11480.80	5312.50	0.25	0.30	40.25	2.50	7955.54	12280.50	7955.54	3.970	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.20	1338.18	2.50	5312.50	11644.00	5312.50	0.25	0.30	40.25	2.50	7955.54	12455.00	7955.54	3.970	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.20	1416.83	2.50	5312.50	13177.40	5312.50	0.25	0.30	13.16	2.50	7955.54	14095.20	7955.54	3.750	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.20	1416.83	2.50	5312.50	13177.40	5312.50	0.25	0.30	13.16	2.50	7955.54	14095.20	7955.54	3.750	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.20	1416.83	2.50	5312.50	13177.40	5312.50	0.25	0.30	13.16	2.50	7955.54	14095.20	7955.54	3.750	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.20	1534.95	2.50	5312.50	13177.40	5312.50	0.25	0.30	57.98	2.50	7955.54	14095.20	7955.54	3.461	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.20	1534.95	2.50	5312.50	13177.40	5312.50	0.25	0.30	57.98	2.50	7955.54	14095.20	7955.54	3.461	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.20	1534.95	2.50	5312.50	13177.40	5312.50	0.25	0.30	57.98	2.50	7955.54	14095.20	7955.54	3.461	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.20	1575.71	2.50	5312.50	12911.80	5312.50	0.25	0.30	21.99	2.50	7955.54	13811.20	7955.54	3.371	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.20	1575.71	2.50	5312.50	12895.50	5312.50	0.25	0.30	21.99	2.50	7955.54	13793.70	7955.54	3.371	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.20	1575.71	2.50	5312.50	12830.20	5312.50	0.25	0.30	21.99	2.50	7955.54	13723.90	7955.54	3.371	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.20	1968.09	2.50	5312.50	11663.20	5312.50	0.25	0.30	205.75	2.50	7955.54	12475.50	7955.54	2.699	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.20	1968.09	2.50	5312.50	11646.90	5312.50	0.25	0.30	205.75	2.50	7955.54	12458.10	7955.54	2.699	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.20	1968.09	2.50	5312.50	11581.60	5312.50	0.25	0.30	205.75	2.50	7955.54	12388.30	7955.54	2.699	

Relazione di calcolo

Nodi: 21 321 521 721 921 1121 1321 1521 1721 1921

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 _r	Sic.
0.00	1(e)	SLU	1	2	0.00	-160704.00	166.69	3214.08	1298.58	3214.08	-466051.00	20744.70	21340.20	68.91	2.40	2.900
0.00	1(e)	SLU	1	2	0.00	-160704.00	166.69	3214.08	1298.58	3214.08	-466051.00	20744.70	21340.20	68.91	2.40	2.900
3.26	1(e)	SLU	1	2	326.00	-157822.00	815.76	3156.45	-2468.18	-3156.45	-466051.00	20748.80	-21313.10	291.09	2.44	2.953
9.50	1(e)	SLU	4	23	0.00	-103910.00	-1055.14	-2078.21	1769.83	2078.21	-260510.00	-8695.09	8995.38	112.50	1.79	2.507
9.50	1(e)	SLU	4	23	0.00	-103910.00	-1055.14	-2078.21	1769.83	2078.21	-260510.00	-8695.09	8995.38	112.50	1.79	2.507
12.26	1(e)	SLU	4	23	276.00	-102565.00	986.92	2051.30	-1691.85	-2051.30	-260510.00	8687.75	-8994.73	292.50	1.82	2.540
12.50	1(e)	SLU	5	23	0.00	-85611.70	-914.48	-1712.23	1844.04	1844.04	-260510.00	-8309.37	9016.23	111.80	2.27	3.043
12.50	1(e)	SLU	5	23	0.00	-85611.70	-914.48	-1712.23	1844.04	1844.04	-260510.00	-8309.37	9016.23	111.80	2.27	3.043
15.26	1(e)	SLU	5	23	276.00	-84266.20	941.88	1685.32	-1888.06	-1888.06	-260510.00	8048.97	-9142.25	291.09	2.32	3.092
18.50	1(e)	SLU	7	24	0.00	-49484.20	-937.09	-989.68	1609.42	1609.42	-49484.20	-3946.76	6416.83	100.90	3.24	3.987
18.50	1(e)	SLU	7	24	0.00	-49484.20	-937.09	-989.68	1609.42	1609.42	-49484.20	-3946.76	6416.83	100.90	3.24	3.987
21.26	1(e)	SLU	7	24	276.00	-48363.00	863.24	-967.26	-1561.52	-1561.52	-48363.00	-4070.70	-6330.91	258.75	3.28	4.098
21.50	1	SLU	8	24	0.00	-31571.80	-1124.36	-1124.36	1483.48	1483.48	-31571.80	-4150.68	5464.08	101.25	4.45	3.686
21.50	1	SLU	8	24	0.00	-31571.80	-1124.36	-1124.36	1483.48	1483.48	-31571.80	-4150.68	5464.08	101.25	4.45	3.686
24.26	1	SLU	8	24	276.00	-30450.60	1303.21	1303.21	-1314.88	-1314.88	-30450.60	5169.55	-5142.60	284.77	4.20	3.939
24.50	1	SLU	9	24	0.00	-13357.20	-667.58	-667.58	2216.93	2216.93	-13357.20	-1363.69	4374.18	92.46	9.43	1.979
24.50	1	SLU	9	24	0.00	-13357.20	-667.58	-667.58	2216.93	2216.93	-13357.20	-1363.69	4374.18	92.46	9.43	1.979
27.26	1(e)	SLU	9	24	276.00	-12235.90	142.62	244.72	-2952.44	-2952.44	-12235.90	303.28	-4247.46	270.62	10.62	1.437

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*	Xg <m>	El	l ₀ <m>	λ	λ*
---	2	3.00	34.64	31.16	---	2	3.00	34.64	31.16	---	2	3.00	34.64	31.16	---	3	3.00	34.64	33.43
---	3	3.00	34.64	33.43	---	3	3.00	34.64	33.43	---	6	3.00	41.57	41.15	---	6	3.00	41.57	41.15
---	6	3.00	41.57	41.15															

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 _r	Sic.
3.50	1(e)	SLU	2	23	0.00	-140541.00	-973.42	-2810.83	1577.06	2810.83	-246100.00	-6552.65	6648.16	111.09	0.90	1.751
3.50	1(e)	SLU	2	23	0.00	-140541.00	-973.42	-2810.83	1577.06	2810.83	-274919.00	-7734.69	8126.40	109.69	1.14	1.956
6.26	1(e)	SLU	2	23	276.00	-139196.00	913.33	2783.92	-1691.30	-2783.92	-274919.00	7780.94	-8152.93	289.69	1.17	1.975
6.50	1(e)	SLU	3	23	0.00	-122221.00	-800.11	-2444.42	1876.28	2444.42	-274919.00	-8473.39	8450.89	110.39	1.49	2.249
6.50	1(e)	SLU	3	23	0.00	-122221.00	-800.11	-2444.42	1876.28	2444.42	-260510.00	-7653.83	7973.70	112.50	1.40	2.131
9.26	1(e)	SLU	3	23	276.00	-120876.00	786.98	2417.51	-1769.84	-2417.51	-260510.00	7671.10	-8004.80	292.50	1.42	2.155
15.50	1(e)	SLU	6	24	0.00	-67378.40	-978.03	-1347.57	1361.53	1361.53	-224296.00	-5930.46	5797.87	106.17	2.30	3.329
15.50	1(e)	SLU	6	24	0.00	-67378.40	-978.03	-1347.57	1361.53	1361.53	-214164.00	-5424.90	5278.62	106.17	2.31	3.179
18.26	1(e)	SLU	6	24	276.00	-66257.20	976.16	1325.14	-1436.90	-1436.90	-214164.00	5184.93	-5323.58	285.47	2.35	3.232

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 _c <daN/cm>	σ _t <daN/cm>
0.00	2	SLE	R	1	2	0.00	-113173.00	926.01	147.67	0.00	20.11	617.87
0.00	4	SLE	Q	1	2	0.00	-101459.00	737.25	72.30	0.00	20.11	546.65
0.00	2	SLE	R	1	2	0.00	-113173.00	926.01	147.67	0.00	20.11	617.87
0.00	4	SLE	Q	1	2	0.00	-101459.00	737.25	72.30	0.00	20.11	546.65
3.26	2	SLE	R	1	2	326.00	-110957.00	-1759.72	542.14	0.00	20.11	46.64
3.26	4	SLE	Q	1	2	326.00	-99241.80	-1402.76	575.55	0.00	20.11	41.15
3.50	2	SLE	R	2	23	0.00	-98901.80	1127.16	-674.21	0.00	8.04	79.17
3.50	4	SLE	Q	2	23	0.00	-88377.50	885.75	-646.05	0.00	8.04	69.60
3.50	2	SLE	R	2	23	0.00	-98901.80	1127.16	-674.21	0.00	16.09	73.99
3.50	4	SLE	Q	2	23	0.00	-88377.50	885.75	-646.05	0.00	16.09	65.02
6.26	2	SLE	R	2	23	276.00	-97866.80	-1210.77	625.33	0.00	16.09	74.03
6.26	4	SLE	Q	2	23	276.00	-87342.50	-941.45	614.34	0.00	16.09	64.85
6.50	2	SLE	R	3	23	0.00	-86029.30	1346.22	-539.74	0.00	16.09	68.23
6.50	4	SLE	Q	3	23	0.00	-76701.20	1029.34	-553.26	0.00	16.09	59.35
6.50	2	SLE	R	3	23	0.00	-86029.30	1346.22	-539.74	0.00	12.06	70.24
6.50	4	SLE	Q	3	23	0.00	-76701.20	1029.34	-553.26	0.00	12.06	61.17
9.26	2	SLE	R	3	23	276.00	-84994.30	-1271.58	533.39	0.00	12.06	68.73
9.26	4	SLE	Q	3	23	276.00	-75666.20	-963.56	538.58	0.00	12.06	59.71
9.50	2	SLE	R	4	23	0.00	-73155.80	1274.78	-725.92	0.00	12.06	63.05
9.50	4	SLE	Q	4	23	0.00	-65060.20	949.79	-706.84	0.00	12.06	54.40
9.50	2	SLE	R	4	23	0.00	-73155.80	1274.78	-725.92	0.00	12.06	63.05
9.50	4	SLE	Q	4	23	0.00	-65060.20	949.79	-706.84	0.00	12.06	54.40
12.26	2	SLE	R	4	23	276.00	-72120.80	-1219.76	678.54	0.00	12.06	61.48
12.26	4	SLE	Q	4	23	276.00	-64025.20	-902.29	662.75	0.00	12.06	52.94
12.50	2	SLE	R	5	23	0.00	-60285.00	1331.48	-623.92	0.00	12.06	55.33
12.50	4	SLE	Q	5	23	0.00	-53450.80	973.53	-617.42	0.00	12.06	47.15
12.50	2	SLE	R	5	23	0.00	-60285.00	1331.48	-623.92	0.00	12.06	55.33
12.50	4	SLE	Q	5	23	0.00	-53450.80	973.53	-617.42	0.00	12.06	47.15
15.26	2	SLE	R	5	23	276.00	-59250.00	-1363.59	644.01	0.00	12.06	55.22
15.26	4	SLE	Q	5	23	276.00	-52415.80	-994.19	635.49	0.00	12.06	46.89

Relazione di calcolo

15.50	2	SLE R	6	24	0.00	-47460.60	983.69	-672.62	0.00	12.06	54.74	714.76
15.50	4	SLE Q	6	24	0.00	-41883.90	713.84	-653.45	0.00	12.06	46.26	612.94
15.50	2	SLE R	6	24	0.00	-47460.60	983.69	-672.62	0.00	9.24	56.48	739.63
15.50	4	SLE Q	6	24	0.00	-41883.90	713.84	-653.45	0.00	9.24	47.73	634.06
18.26	2	SLE R	6	24	276.00	-46598.10	-1038.45	670.51	0.00	9.24	56.77	738.89
18.26	4	SLE Q	6	24	276.00	-41021.40	-751.55	651.33	0.00	9.24	47.73	630.59
18.50	2	SLE R	7	24	0.00	-34893.40	1162.91	-642.04	0.00	9.24	50.21	629.53
18.50	4	SLE Q	7	24	0.00	-30560.70	836.75	-631.79	0.00	9.24	41.48	529.27
18.50	2	SLE R	7	24	0.00	-34893.40	1162.91	-642.04	0.00	9.24	50.21	629.53
18.50	4	SLE Q	7	24	0.00	-30560.70	836.75	-631.79	0.00	9.24	41.48	529.27
21.26	2	SLE R	7	24	276.00	-34030.90	-1127.92	590.56	0.00	9.24	48.57	609.32
21.26	4	SLE Q	7	24	276.00	-29698.20	-809.19	583.10	0.00	9.24	39.98	510.54
21.50	2	SLE R	8	24	0.00	-22310.60	1075.51	-775.60	1.54	7.70	41.82	502.91
21.50	4	SLE Q	8	24	0.00	-19237.80	767.04	-745.56	0.00	9.24	33.44	410.79
21.50	2	SLE R	8	24	0.00	-22310.60	1075.51	-775.60	1.54	7.70	41.82	502.91
21.50	4	SLE Q	8	24	0.00	-19237.80	767.04	-745.56	0.00	9.24	33.44	410.79
24.26	2	SLE R	8	24	276.00	-21448.10	-957.46	903.23	1.54	7.70	40.14	486.62
24.26	4	SLE Q	8	24	276.00	-18375.30	-680.27	862.55	1.54	7.70	32.35	399.73
24.50	2	SLE R	9	24	0.00	-9517.47	1582.48	-455.45	4.62	4.62	59.07	1006.53
24.50	4	SLE Q	9	24	0.00	-7754.97	1136.66	-447.66	4.62	4.62	43.85	667.08
24.50	2	SLE R	9	24	0.00	-9517.47	1582.48	-455.45	4.62	4.62	59.07	1006.53
24.50	4	SLE Q	9	24	0.00	-7754.97	1136.66	-447.66	4.62	4.62	43.85	667.08
27.26	2	SLE R	9	24	276.00	-8654.98	-2089.61	107.16	4.62	4.62	70.66	1592.27
27.26	4	SLE Q	9	24	276.00	-6892.47	-1507.67	109.87	4.62	4.62	51.39	1091.49

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.50	4	SLE Q	9	24	0.00	-7754.97	-447.66	1136.66	39.00	204.00	0.50	14.00	240.65	1.54	178.84	667.08	0.19	0.08
24.50	3	SLE F	9	24	0.00	-8207.06	-449.66	1257.64	39.00	204.00	0.50	14.00	250.76	1.54	189.96	761.17	0.22	0.09
24.50	4	SLE Q	9	24	0.00	-7754.97	-447.66	1136.66	39.00	204.00	0.50	14.00	240.65	1.54	178.84	667.08	0.19	0.08
24.50	3	SLE F	9	24	0.00	-8207.06	-449.66	1257.64	39.00	204.00	0.50	14.00	250.76	1.54	189.96	761.17	0.22	0.09
27.26	4	SLE Q	9	24	276.00	-6892.47	109.87	-1507.67	39.00	204.00	0.50	14.00	158.36	4.62	265.09	1091.49	0.33	0.09
27.26	3	SLE F	9	24	276.00	-7344.56	108.97	-1660.90	39.00	204.00	0.50	14.00	159.23	4.62	267.96	1224.41	0.36	0.10

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	Sic.
<mm>	<mm>						<mm>	<daN>	<daN>		<daN>	<daN>	<daN>	<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	1155.45	2.50	12369.40	34709.70	12369.40	0.40	0.63	199.10	2.50	22236.70	36704.90	22236.70	10.705	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	1155.45	2.50	12369.40	34914.40	12369.40	0.40	0.63	199.10	2.50	22236.70	36921.30	22236.70	10.705	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	1155.45	2.50	12369.40	35486.10	12369.40	0.40	0.63	199.10	2.50	22236.70	37526.00	22236.70	10.705	
3.50	4.00	ø6/15	2	21	SLU	0.50	0.25	1184.19	1.00	2653.61	2029.70	2029.70	0.30	0.45	683.61	1.00	4768.04	2188.20	2188.20	1.714	
4.00	5.76	ø6/15	2	21	SLU	0.50	0.25	1184.19	1.00	2653.61	2144.42	2144.42	0.30	0.45	683.61	1.00	4768.04	2311.87	2311.87	1.811	
5.76	6.26	ø6/15	2	21	SLU	0.50	0.25	1184.19	1.00	2653.61	2548.21	2548.21	0.30	0.45	683.61	1.00	4768.04	2747.20	2747.20	2.152	
6.50	7.00	ø6/15	2	21	SLU	0.50	0.25	1321.06	2.50	6634.02	7345.96	6634.02	0.30	0.45	575.03	1.95	9315.17	9315.17	9315.17	5.022	
7.00	8.76	ø6/15	2	21	SLU	0.50	0.25	1321.06	2.50	6634.02	7425.07	6634.02	0.30	0.45	575.03	1.97	9378.26	9378.26	9378.26	5.022	
8.76	9.26	ø6/15	2	21	SLU	0.50	0.25	1321.06	2.50	6634.02	7703.55	6634.02	0.30	0.45	575.03	2.01	9597.03	9597.03	9597.03	5.022	
9.50	10.00	ø6/15	2	21	SLU	0.50	0.25	1254.23	2.50	6634.02	13289.10	6634.02	0.30	0.45	739.88	2.50	11920.10	14326.80	11920.10	5.289	
10.00	11.76	ø6/15	2	21	SLU	0.50	0.25	1254.23	2.50	6634.02	13368.20	6634.02	0.30	0.45	739.88	2.50	11920.10	14412.10	11920.10	5.289	
11.76	12.26	ø6/15	2	21	SLU	0.50	0.25	1254.23	2.50	6634.02	13646.70	6634.02	0.30	0.45	739.88	2.50	11920.10	14712.30	11920.10	5.289	
12.50	13.00	ø6/15	2	21	SLU	0.50	0.25	1352.21	2.50	6634.02	19228.30	6634.02	0.30	0.45	672.59	2.50	11920.10	20729.80	11920.10	4.906	
13.00	14.76	ø6/15	2	21	SLU	0.50	0.25	1352.21	2.50	6634.02	19307.40	6634.02	0.30	0.45	672.59	2.50	11920.10	20815.10	11920.10	4.906	
14.76	15.26	ø6/15	2	21	SLU	0.50	0.25	1352.21	2.50	6634.02	19585.90	6634.02	0.30	0.45	672.59	2.50	11920.10	21115.30	11920.10	4.906	
15.50	16.00	ø6/15	2	21	SLU	0.50	0.20	1013.92	2.50	5312.50	16634.50	5312.50	0.25	0.45	708.04	2.50	11920.10	18662.10	11920.10	5.240	
16.00	17.76	ø6/15	2	21	SLU	0.50	0.20	1013.92	2.50	5312.50	16697.80	5312.50	0.25	0.45	708.04	2.50	11920.10	18733.20	11920.10	5.240	
17.76	18.26	ø6/15	2	21	SLU	0.50	0.20	1013.92	2.50	5312.50	16920.80	5312.50	0.25	0.45	708.04	2.50	11920.10	18983.30	11920.10	5.240	
18.50	19.00	ø6/15	2	21	SLU	0.50	0.20	1148.89	2.50	5312.50	18824.80	5312.50	0.25	0.45	652.29	2.50	11920.10	21119.40	11920.10	4.624	
19.00	20.76	ø6/15	2	21	SLU	0.50	0.20	1148.89	2.50	5312.50	18824.80	5312.50	0.25	0.45	652.29	2.50	11920.10	21119.40	11920.10	4.624	
20.76	21.26	ø6/15	2	21	SLU	0.50	0.20	1148.89	2.50	5312.50	18824.80	5312.50	0.25	0.45	652.29	2.50	11920.10	21119.40	11920.10	4.624	
21.50	22.00	ø6/15	2	21	SLU	0.50	0.20	1013.90	2.50	5312.50	18824.80	5312.50	0.25	0.45	879.55	2.50	11920.10	21119.40	11920.10	5.240	
22.00	23.76	ø6/15	2	21	SLU	0.50	0.20	1013.90	2.50	5312.50	18824.80	5312.50	0.25	0.45	879.55	2.50	11920.10	21119.40	11920.10	5.240	
23.76	24.26	ø6/15	2	21	SLU	0.50	0.20	1013.90	2.50	5312.50	18824.80	5312.50	0.25	0.45	879.55	2.50	11920.10	21119.40	11920.10	5.240	
24.50	25.00	ø6/15	2	21	SLU	0.50	0.20	1872.96	2.50	5312.50	16726.30	5312.50	0.25	0.45	293.55	2.50	11920.10	18765.00	11920.10	2.836	
25.00	26.76	ø6/15	2	21	SLU	0.50	0.20	1872.96	2.50	5312.50	16700.90	5312.50	0.25	0.45	293.55	2.50	11920.10	18736.60	11920.10	2.836	
26.76	27.26	ø6/15	2	21	SLU	0.50	0.20	1872.96	2.50	5312.50	16611.70	5312.50	0.25	0.45	293.55	2.50	11920.10	18636.50	11920.10	2.836	

Pilastrata n. 22

Nodi: 22 322 522 722 922 1122 1322 1522 1722 1922

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 _r	Sic.
0.00	1 (e)	SLU	1	2	0.00	-195668.00	895.60	3913.36	357.71	3913.36	-466051.00	20656.30	21355.70	68.91	1.89	2.382
0.00	1 (e)	SLU	1	2	0.00	-195668.00	895.60	3913.36	357.71	3913.36	-466051.00	20656.30	21355.70	68.91	1.89	2.382
3.26	1 (e)	SLU	1	2	326.00	-192786.00	-650.18	-3855.72	-718.52	-3855.72	-466051.00	-20665.80	-21373.30	248.91	1.93	2.417
6.50	1 (e)	SLU	3	21	0.00	-151677.00	577.87	3033.54	150.82	3033.54	-353140.00	12811.10	12580.00	78.05	1.66	2.328
6.50	1 (e)	SLU	3	21	0.00	-151677.00	577.87	3033.54	150.82	3033.54	-353140.00	12811.10	12580.00	78.05	1.66	2.328
9.26	1 (e)	SLU	3	21	276.00	-149847.00	-523.70	-2996.94	-74.46	-2996.94	-353140.00	-12854.20	-12601.80	258.05	1.69	2.357
9.50	1 (e)	SLU	4	21	0.00	-130557.00	74.97	2611.14	-72.00	-2611.14	-353140.00	12952.80	-12631.30	281.95	2.07	2.705
9.50	1 (e)	SLU	4	21	0.00	-130557.00	74.97	2611.14	-72.00	-2611.14	-353140.00	12952.80	-12631.30	281.95	2.07	2.705
12.26	1 (e)	SLU	4	21	276.00	-128727.00	-171.60	-2574.54	136.69	-2574.54	-353140.00	-12956.10	12620.70	101.95	2.11	2.743
12.50	1 (e)	SLU	5	21	0.00	-109709.00	525.92	1194.19	-290.98	1194.19	-353140.00	-12250.60	-12633.60	281.25	2.53	3.21

Relazione di calcolo

12.50	1(e)	SLU	5	21	0.00	-109709.00	525.92	2194.19	-290.98	-2194.19	-353140.00	12250.60	-12633.60	281.25	2.53	3.219
15.26	1(e)	SLU	5	21	276.00	-107879.00	-468.72	-2157.59	334.63	2157.59	-353140.00	-12251.80	12606.40	101.25	2.57	3.273
15.50	1(e)	SLU	6	22	0.00	-88994.90	247.00	1779.90	-320.59	-1779.90	-303890.00	9471.71	-9199.39	277.73	2.46	3.415
15.50	1(e)	SLU	6	22	0.00	-88994.90	247.00	1779.90	-320.59	-1779.90	-289480.00	8816.61	-8827.14	279.14	2.45	3.253
18.26	1(e)	SLU	6	22	276.00	-87470.00	-297.63	-1749.40	401.13	1749.40	-289480.00	-8802.91	8804.11	99.14	2.50	3.309
18.50	1(e)	SLU	7	22	0.00	-68693.00	498.08	1373.86	-548.62	-1373.86	-289480.00	8597.34	-8305.34	279.14	3.15	4.214
18.50	1(e)	SLU	7	22	0.00	-68693.00	498.08	1373.86	-548.62	-1373.86	-289480.00	8597.34	-8305.34	279.14	3.15	4.214
21.26	1(e)	SLU	7	22	276.00	-67168.10	-506.18	-1343.36	562.26	1343.36	-289480.00	-8264.58	8340.62	98.79	3.24	4.310
21.50	1(e)	SLU	8	22	0.00	-48614.40	297.62	972.29	-596.23	-972.29	-289480.00	7764.33	-7609.23	278.44	4.13	5.955
21.50	1(e)	SLU	8	22	0.00	-48614.40	297.62	972.29	-596.23	-972.29	-289480.00	7764.33	-7609.23	278.44	4.13	5.955
24.26	1(e)	SLU	8	22	276.00	-47089.50	-89.87	-941.79	561.29	941.79	-289480.00	-7553.53	7547.47	98.09	4.27	6.147
24.50	1	SLU	9	22	0.00	-28953.30	730.55	730.55	-746.16	-746.16	-28953.30	6226.39	-6448.58	275.62	6.19	8.584
24.50	1	SLU	9	22	0.00	-28953.30	730.55	730.55	-746.16	-746.16	-28953.30	6226.39	-6448.58	275.62	6.19	8.584
27.26	1	SLU	9	22	276.00	-27428.40	-676.11	-676.11	876.95	876.95	-27428.40	-5010.12	6430.79	94.22	6.82	7.362

Dati per verifiche di stabilità

Xg	El	l ₀	λ	λ*
<m>		<m>		
---	2	3.00	34.64	32.75
---	2	3.00	34.64	32.75
---	2	3.00	34.64	32.75

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	ε _r	Sic.
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
3.50	1(e)	SLU	2	21	0.00	-173078.00	-270.62	-3461.56	435.91	3461.56	-367550.00	-12342.60	12082.40	102.66	1.38	2.124
3.50	1(e)	SLU	2	21	0.00	-173078.00	-270.62	-3461.56	435.91	3461.56	-353140.00	-11261.30	11111.00	101.95	1.30	2.040
6.26	1(e)	SLU	2	21	276.00	-171248.00	-33.05	-3424.96	-309.66	-3424.96	-353140.00	-11298.20	-11147.50	258.05	1.33	2.062

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ _c	σ _f
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE	R	1	2	0.00	-139617.00	257.94	649.79	0.00	20.11	730.73
0.00	4	SLE	Q	1	2	0.00	-116193.00	197.48	545.56	0.00	20.11	607.36
0.00	2	SLE	R	1	2	0.00	-139617.00	257.94	649.79	0.00	20.11	730.73
0.00	4	SLE	Q	1	2	0.00	-116193.00	197.48	545.56	0.00	20.11	607.36
3.26	2	SLE	R	1	2	326.00	-137400.00	-517.37	-467.87	0.00	20.11	727.34
3.26	4	SLE	Q	1	2	326.00	-113977.00	-399.00	-377.72	0.00	20.11	601.32
3.50	2	SLE	R	2	21	0.00	-123381.00	317.96	-202.05	0.00	20.11	827.19
3.50	4	SLE	Q	2	21	0.00	-102575.00	230.67	-188.19	0.00	20.11	685.72
3.50	2	SLE	R	2	21	0.00	-123381.00	317.96	-202.05	0.00	16.09	849.22
3.50	4	SLE	Q	2	21	0.00	-102575.00	230.67	-188.19	0.00	16.09	703.94
6.26	2	SLE	R	2	21	276.00	-121973.00	-230.41	-19.60	0.00	16.09	823.60
6.26	4	SLE	Q	2	21	276.00	-101167.00	-150.12	-0.39	0.00	16.09	678.69
6.50	2	SLE	R	3	21	0.00	-108062.00	121.40	411.16	0.00	16.09	740.62
6.50	4	SLE	Q	3	21	0.00	-89819.80	43.14	326.97	0.00	16.09	609.73
6.50	2	SLE	R	3	21	0.00	-108062.00	121.40	411.16	0.00	16.09	740.62
6.50	4	SLE	Q	3	21	0.00	-89819.80	43.14	326.97	0.00	16.09	609.73
9.26	2	SLE	R	3	21	276.00	-106654.00	-68.27	-371.27	0.00	16.09	724.74
9.26	4	SLE	Q	3	21	276.00	-88412.20	4.96	-301.74	0.00	16.09	595.87
9.50	2	SLE	R	4	21	0.00	-92948.70	-31.78	47.50	0.00	16.09	616.23
9.50	4	SLE	Q	4	21	0.00	-77193.10	-102.53	17.57	0.00	16.09	517.59
9.50	2	SLE	R	4	21	0.00	-92948.70	-31.78	47.50	0.00	16.09	616.23
9.50	4	SLE	Q	4	21	0.00	-77193.10	-102.53	17.57	0.00	16.09	517.59
12.26	2	SLE	R	4	21	276.00	-91541.10	76.95	-117.20	0.00	16.09	614.28
12.26	4	SLE	Q	4	21	276.00	-75785.50	142.91	-77.35	0.00	16.09	514.74
12.50	2	SLE	R	5	21	0.00	-78032.10	-181.81	372.36	0.00	16.09	546.78
12.50	4	SLE	Q	5	21	0.00	-64698.50	-246.05	300.01	0.00	16.09	461.49
12.50	2	SLE	R	5	21	0.00	-78032.10	-181.81	372.36	0.00	16.09	546.78
12.50	4	SLE	Q	5	21	0.00	-64698.50	-246.05	300.01	0.00	16.09	461.49
15.26	2	SLE	R	5	21	276.00	-76624.50	211.63	-330.64	0.00	16.09	538.25
15.26	4	SLE	Q	5	21	276.00	-63290.90	274.43	-260.04	0.00	16.09	452.92
15.50	2	SLE	R	6	22	0.00	-63209.70	-208.66	170.96	0.00	16.09	522.21
15.50	4	SLE	Q	6	22	0.00	-52270.80	-244.57	125.28	0.00	16.09	439.43
15.50	2	SLE	R	6	22	0.00	-63209.70	-208.66	170.96	0.00	12.06	538.50
15.50	4	SLE	Q	6	22	0.00	-52270.80	-244.57	125.28	0.00	12.06	452.84
18.26	2	SLE	R	6	22	276.00	-62036.70	264.67	-207.69	0.00	12.06	537.86
18.26	4	SLE	Q	6	22	276.00	-51097.80	294.98	-158.31	0.00	12.06	451.33
18.50	2	SLE	R	7	22	0.00	-48699.30	-366.41	350.76	0.00	12.06	451.75
18.50	4	SLE	Q	7	22	0.00	-40134.50	-389.36	274.83	0.00	12.06	381.74
18.50	2	SLE	R	7	22	0.00	-48699.30	-366.41	350.76	0.00	12.06	451.75
18.50	4	SLE	Q	7	22	0.00	-40134.50	-389.36	274.83	0.00	12.06	381.74
21.26	2	SLE	R	7	22	276.00	-47526.30	376.35	-358.71	0.00	12.06	444.02
21.26	4	SLE	Q	7	22	276.00	-38961.50	395.80	-282.11	0.00	12.06	373.57
21.50	2	SLE	R	8	22	0.00	-34348.00	-399.88	204.32	0.00	12.06	332.75
21.50	4	SLE	Q	8	22	0.00	-28114.20	-420.34	156.71	0.00	12.06	282.68
21.50	2	SLE	R	8	22	0.00	-34348.00	-399.88	204.32	0.00	12.06	332.75
21.50	4	SLE	Q	8	22	0.00	-28114.20	-420.34	156.71	0.00	12.06	282.68
24.26	2	SLE	R	8	22	276.00	-33175.00	376.17	-45.57	0.00	12.06	311.41
24.26	4	SLE	Q	8	22	276.00	-26941.20	398.96	-14.84	0.00	12.06	262.60
24.50	2	SLE	R	9	22	0.00	-20287.90	-506.36	534.96	0.00	12.06	252.29
24.50	4	SLE	Q	9	22	0.00	-16312.60	-521.23	436.81	0.00	12.06	216.65
24.50	2	SLE	R	9	22	0.00	-20287.90	-506.36	534.96	0.00	12.06	252.29
24.50	4	SLE	Q	9	22	0.00	-16312.60	-521.23	436.81	0.00	12.06	216.65

Relazione di calcolo

27.26	2	SLE R	9	22	276.00	-19114.90	598.36	-485.06	0.00	12.06	19.85	250.86
27.26	4	SLE Q	9	22	276.00	-15139.60	604.16	-402.43	0.00	12.06	17.47	215.35

Stato limite ultimo - Verifiche a taglio

Xg <m>	Xl <m>	Staff.	Br _y	Br _z	CC	TCC	bw _y <m>	d _y <m>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <m>	d _z <daN>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	330.13	2.50	12369.40	22807.70	12369.40	12369.40	0.40	0.63	474.17	2.50	22236.70	24118.80	22236.70	37.468
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	330.13	2.50	12369.40	23012.40	12369.40	12369.40	0.40	0.63	474.17	2.50	22236.70	24335.20	22236.70	37.468
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	330.13	2.50	12369.40	23584.10	12369.40	12369.40	0.40	0.63	474.17	2.50	22236.70	24939.80	22236.70	37.468
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	270.13	2.50	6634.02	7764.92	6634.02	6634.02	0.30	0.63	86.07	1.66	11050.10	11050.10	11050.10	24.558
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	270.13	2.50	6634.02	7911.25	6634.02	6634.02	0.30	0.63	86.07	1.68	11191.30	11191.30	11191.30	24.558
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	270.13	2.50	6634.02	8212.51	6634.02	6634.02	0.30	0.63	86.07	1.72	11476.50	11476.50	11476.50	24.558
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	81.62	2.50	6634.02	14711.00	6634.02	6634.02	0.30	0.63	399.12	2.47	16466.40	16466.40	16466.40	41.257
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	81.62	2.50	6634.02	14857.30	6634.02	6634.02	0.30	0.63	399.12	2.48	16561.50	16561.50	16561.50	41.495
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	81.62	2.50	6634.02	15158.60	6634.02	6634.02	0.30	0.63	399.12	2.50	16677.60	16812.30	16677.60	41.786
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	75.61	2.50	6634.02	21565.90	6634.02	6634.02	0.30	0.63	89.34	2.50	16677.60	23918.60	16677.60	87.739
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	75.61	2.50	6634.02	21712.20	6634.02	6634.02	0.30	0.63	89.34	2.50	16677.60	24080.80	16677.60	87.739
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	75.61	2.50	6634.02	22013.50	6634.02	6634.02	0.30	0.63	89.34	2.50	16677.60	24415.00	16677.60	87.739
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	226.67	2.50	6634.02	28332.40	6634.02	6634.02	0.30	0.63	360.38	2.50	16677.60	31423.20	16677.60	29.267
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	226.67	2.50	6634.02	28478.70	6634.02	6634.02	0.30	0.63	360.38	2.50	16677.60	31585.50	16677.60	29.267
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	226.67	2.50	6634.02	28780.00	6634.02	6634.02	0.30	0.63	360.38	2.50	16677.60	31919.70	16677.60	29.267
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	261.49	2.50	5312.50	23446.30	5312.50	5312.50	0.25	0.63	197.33	2.50	16677.60	27060.60	16677.60	20.316
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	261.49	2.50	5312.50	23563.40	5312.50	5312.50	0.25	0.63	197.33	2.50	16677.60	27195.90	16677.60	20.316
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	261.49	2.50	5312.50	23804.70	5312.50	5312.50	0.25	0.63	197.33	2.50	16677.60	27474.30	16677.60	20.316
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	402.50	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	363.86	2.50	16677.60	29548.40	16677.60	13.199
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	402.50	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	363.86	2.50	16677.60	29548.40	16677.60	13.199
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	402.50	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	363.86	2.50	16677.60	29548.40	16677.60	13.199
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	419.39	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	140.40	2.50	16677.60	29548.40	16677.60	12.667
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	419.39	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	140.40	2.50	16677.60	29548.40	16677.60	12.667
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	419.39	2.50	5312.50	25601.70	5312.50	5312.50	0.25	0.63	140.40	2.50	16677.60	29548.40	16677.60	12.667
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	588.09	2.50	5312.50	24093.60	5312.50	5312.50	0.25	0.63	509.66	2.50	16677.60	27807.70	16677.60	9.034
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	588.09	2.50	5312.50	24046.70	5312.50	5312.50	0.25	0.63	509.66	2.50	16677.60	27753.60	16677.60	9.034
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	588.09	2.50	5312.50	23950.20	5312.50	5312.50	0.25	0.63	509.66	2.50	16677.60	27642.20	16677.60	9.034

Pilastrata n. 23

Nodi: 23 323 523 723 923 1123 1323 1523 1723 1923

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 _r	Sic.
0.00	1(e)	SLU	1	2	0.00	-188760.00	795.26	3775.21	-480.10	-3775.21	-466051.00	20678.20	-21396.30	291.09	1.98	2.469
0.00	1(e)	SLU	1	2	0.00	-188760.00	795.26	3775.21	-480.10	-3775.21	-466051.00	20678.20	-21396.30	291.09	1.98	2.469
3.26	1(e)	SLU	1	2	326.00	-185879.00	-566.92	-3717.57	839.49	3717.57	-466051.00	-20686.50	21411.60	111.09	2.02	2.507
6.50	1(e)	SLU	3	21	0.00	-146048.00	482.48	2920.96	-361.25	-2920.96	-353140.00	12923.70	-12639.20	281.95	1.76	2.418
6.50	1(e)	SLU	3	21	0.00	-146048.00	482.48	2920.96	-361.25	-2920.96	-353140.00	12923.70	-12639.20	281.95	1.76	2.418
9.26	1(e)	SLU	3	21	276.00	-144218.00	-375.17	-2884.37	299.45	2884.37	-353140.00	-12927.10	12646.40	101.95	1.79	2.449
9.50	1(e)	SLU	4	21	0.00	-125604.00	93.76	2512.08	-198.73	-2512.08	-353140.00	12961.20	-12601.40	281.95	2.17	2.812
9.50	1(e)	SLU	4	21	0.00	-125604.00	93.76	2512.08	-198.73	-2512.08	-353140.00	12961.20	-12601.40	281.95	2.17	2.812
12.26	1(e)	SLU	4	21	276.00	-123774.00	-172.07	-2475.49	135.04	2475.49	-353140.00	-12964.20	12589.50	101.95	2.21	2.853
12.50	1(e)	SLU	5	21	0.00	-105376.00	445.37	2107.51	-91.17	-2107.51	-353140.00	12253.00	-12568.30	281.25	2.63	3.351
12.50	1(e)	SLU	5	21	0.00	-105376.00	445.37	2107.51	-91.17	-2107.51	-353140.00	12253.00	-12568.30	281.25	2.63	3.351
15.26	1(e)	SLU	5	21	276.00	-103546.00	-404.26	-2070.91	73.50	2070.91	-353140.00	-12253.90	12537.00	101.25	2.68	3.410
15.50	1(e)	SLU	6	22	0.00	-85404.10	251.07	1708.08	39.80	1708.08	-303890.00	9472.15	9158.70	82.27	2.56	3.558
15.50	1(e)	SLU	6	22	0.00	-85404.10	251.07	1708.08	39.80	1708.08	-289480.00	8784.42	8772.20	80.86	2.56	3.390
18.26	1(e)	SLU	6	22	276.00	-83879.20	-300.64	-1677.58	-85.32	-1677.58	-289480.00	-8770.84	-8748.16	260.86	2.61	3.451
18.50	1(e)	SLU	7	22	0.00	-65936.60	475.30	1318.73	158.53	1318.73	-289480.00	8246.13	8294.94	81.21	3.29	4.390
18.50	1(e)	SLU	7	22	0.00	-65936.60	475.30	1318.73	158.53	1318.73	-289480.00	8246.13	8294.94	81.21	3.29	4.390
21.26	1(e)	SLU	7	22	276.00	-64411.70	-496.39	-1288.23	-179.38	-1288.23	-289480.00	-8223.33	-8237.99	261.21	3.36	4.494
21.50	1(e)	SLU	8	22	0.00	-46638.90	322.70	932.78	282.60	932.78	-289480.00	7336.04	7555.32	82.27	4.36	6.207
21.50	1(e)	SLU	8	22	0.00	-46638.90	322.70	932.78	282.60	932.78	-289480.00	7336.04	7555.32	82.27	4.36	6.207
24.26	1(e)	SLU	8	22	276.00	-45114.00	-76.41	-902.28	-333.13	-902.28	-289480.00	-7378.48	-7456.82	262.27	4.45	6.417
24.50	1(e)	SLU	9	22	0.00	-27402.60	875.28	875.28	183.54	548.05	-289480.00	9553.03	5963.52	79.45	5.19	10.564
24.50	1(e)	SLU	9	22	0.00	-27402.60	875.28	875.28	183.54	548.05	-289480.00	9553.03	5963.52	79.45	5.19	10.564
27.26	1(e)	SLU	9	22	276.00	-25877.70	-852.30	-852.30	13.09	517.55	-289480.00	-9914.97	5797.49	101.25	5.22	11.187

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
---	2	3.00	34.64	33.38
---	2	3.00	34.64	33.38
---	2	3.00	34.64	33.38

Relazione di calcolo

0.004	SLE Q	1	2	0.00	-111328.00	-277.35	478.55	0.00	20.11	39.51	585.16
3.262	SLE R	1	2	326.00	-132701.00	598.12	-407.99	0.00	20.11	47.91	706.27
3.264	SLE Q	1	2	326.00	-109111.00	484.01	-324.29	0.00	20.11	39.33	579.89
3.502	SLE R	2	21	0.00	-119059.00	-385.04	-312.63	0.00	20.11	55.19	810.40
3.504	SLE Q	2	21	0.00	-98048.50	-311.65	-270.50	0.00	20.11	45.46	667.52
3.502	SLE R	2	21	0.00	-119059.00	-385.04	-312.63	0.00	16.09	56.67	831.98
3.504	SLE Q	2	21	0.00	-98048.50	-311.65	-270.50	0.00	16.09	46.67	685.29
6.262	SLE R	2	21	276.00	-117651.00	335.83	68.87	0.00	16.09	54.75	806.94
6.264	SLE Q	2	21	276.00	-96640.90	272.35	66.50	0.00	16.09	44.98	662.98
6.502	SLE R	3	21	0.00	-104251.00	-258.92	343.19	0.00	16.09	49.19	724.73
6.504	SLE Q	3	21	0.00	-85779.80	-210.58	267.95	0.00	16.09	40.40	595.43
6.502	SLE R	3	21	0.00	-104251.00	-258.92	343.19	0.00	16.09	49.19	724.73
6.504	SLE Q	3	21	0.00	-85779.80	-210.58	267.95	0.00	16.09	40.40	595.43
9.262	SLE R	3	21	276.00	-102843.00	215.02	-267.05	0.00	16.09	47.92	707.98
9.264	SLE Q	3	21	276.00	-84372.20	175.65	-211.87	0.00	16.09	39.28	580.42
9.502	SLE R	4	21	0.00	-89597.20	-143.31	58.03	0.00	16.09	40.73	604.69
9.504	SLE Q	4	21	0.00	-73630.90	-118.87	34.27	0.00	16.09	33.44	496.41
9.502	SLE R	4	21	0.00	-89597.20	-143.31	58.03	0.00	16.09	40.73	604.69
9.504	SLE Q	4	21	0.00	-73630.90	-118.87	34.27	0.00	16.09	33.44	496.41
12.262	SLE R	4	21	276.00	-88189.60	97.94	-116.87	0.00	16.09	39.93	594.11
12.264	SLE Q	4	21	276.00	-72223.30	82.32	-83.07	0.00	16.09	32.68	486.15
12.502	SLE R	5	21	0.00	-75096.20	-67.59	312.68	0.00	16.09	34.64	514.44
12.504	SLE Q	5	21	0.00	-61601.30	-59.42	252.14	0.00	16.09	28.43	422.15
12.502	SLE R	5	21	0.00	-75096.20	-67.59	312.68	0.00	16.09	34.64	514.44
12.504	SLE Q	5	21	0.00	-61601.30	-59.42	252.14	0.00	16.09	28.43	422.15
15.262	SLE R	5	21	276.00	-73688.60	55.84	-283.11	0.00	16.09	33.81	502.75
15.264	SLE Q	5	21	276.00	-60193.70	50.57	-224.46	0.00	16.09	27.64	410.81
15.502	SLE R	6	22	0.00	-60775.80	25.02	173.87	0.00	16.09	32.35	481.98
15.504	SLE Q	6	22	0.00	-49716.70	15.58	134.30	0.00	16.09	26.37	393.27
15.502	SLE R	6	22	0.00	-60775.80	25.02	173.87	0.00	12.06	33.40	497.68
15.504	SLE Q	6	22	0.00	-49716.70	15.58	134.30	0.00	12.06	27.23	406.09
18.262	SLE R	6	22	276.00	-59602.80	-57.03	-208.57	0.00	12.06	33.34	494.10
18.264	SLE Q	6	22	276.00	-48543.70	-40.80	-164.59	0.00	12.06	27.06	401.45
18.502	SLE R	7	22	0.00	-46833.10	108.47	333.45	0.00	12.06	27.75	405.55
18.504	SLE Q	7	22	0.00	-38187.70	81.58	264.35	0.00	12.06	22.51	329.44
18.502	SLE R	7	22	0.00	-46833.10	108.47	333.45	0.00	12.06	27.75	405.55
18.504	SLE Q	7	22	0.00	-38187.70	81.58	264.35	0.00	12.06	22.51	329.44
21.262	SLE R	7	22	276.00	-45660.10	-123.49	-348.00	0.00	12.06	27.39	398.80
21.264	SLE Q	7	22	276.00	-37014.70	-94.02	-278.98	0.00	12.06	22.11	322.39
21.502	SLE R	8	22	0.00	-33009.40	195.09	224.15	0.00	12.06	21.00	299.15
21.504	SLE Q	8	22	0.00	-26751.80	150.17	176.28	0.00	12.06	16.90	241.20
21.502	SLE R	8	22	0.00	-33009.40	195.09	224.15	0.00	12.06	21.00	299.15
21.504	SLE Q	8	22	0.00	-26751.80	150.17	176.28	0.00	12.06	16.90	241.20
24.262	SLE R	8	22	276.00	-31836.40	-230.10	-33.04	0.00	12.06	19.96	282.84
24.264	SLE Q	8	22	276.00	-25578.80	-176.91	-18.24	0.00	12.06	15.90	225.83
24.502	SLE R	9	22	0.00	-19229.60	129.27	636.30	0.00	12.06	14.70	205.41
24.504	SLE Q	9	22	0.00	-15350.90	105.53	518.76	0.00	12.06	11.81	164.87
24.502	SLE R	9	22	0.00	-19229.60	129.27	636.30	0.00	12.06	14.70	205.41
24.504	SLE Q	9	22	0.00	-15350.90	105.53	518.76	0.00	12.06	11.81	164.87
27.262	SLE R	9	22	276.00	-18056.60	3.53	-601.93	0.00	12.06	12.34	179.28
27.264	SLE Q	9	22	276.00	-14177.90	-6.61	-485.40	0.00	12.06	9.80	141.96

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw _y	d _r	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	Sic.
<m>	<m>						<m>	<m>	<daN>		<daN>	<daN>	<daN>	<m>	<m>	<daN>		<daN>	<daN>	<daN>	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	404.78	2.50	12369.40	25159.20	12369.40	0.40	0.63	417.85	2.50	22236.70	26605.40	22236.70	30.558	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	404.78	2.50	12369.40	25363.80	12369.40	0.40	0.63	417.85	2.50	22236.70	26821.80	22236.70	30.558	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	404.78	2.50	12369.40	25935.50	12369.40	0.40	0.63	417.85	2.50	22236.70	27426.40	22236.70	30.558	
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	366.37	2.50	6634.02	9831.62	6634.02	0.30	0.63	186.27	1.93	12901.50	12901.50	12901.50	18.108	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	366.37	2.50	6634.02	9977.95	6634.02	0.30	0.63	186.27	1.95	13022.60	13022.60	13022.60	18.108	
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	366.37	2.50	6634.02	10279.20	6634.02	0.30	0.63	186.27	1.99	13268.50	13268.50	13268.50	18.108	
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	239.38	2.50	6634.02	16537.90	6634.02	0.30	0.63	310.74	2.50	16677.60	18342.10	16677.60	27.713	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	239.38	2.50	6634.02	16684.20	6634.02	0.30	0.63	310.74	2.50	16677.60	18504.40	16677.60	27.713	
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	239.38	2.50	6634.02	16985.50	6634.02	0.30	0.63	310.74	2.50	16677.60	18838.50	16677.60	27.713	
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	120.93	2.50	6634.02	23173.40	6634.02	0.30	0.63	96.31	2.50	16677.60	25701.50	16677.60	54.857	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	120.93	2.50	6634.02	23319.70	6634.02	0.30	0.63	96.31	2.50	16677.60	25863.80	16677.60	54.857	
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	120.93	2.50	6634.02	23621.00	6634.02	0.30	0.63	96.31	2.50	16677.60	26197.90	16677.60	54.857	
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	59.66	2.50	6634.02	29739.00	6634.02	0.30	0.63	307.83	2.50	16677.60	32983.30	16677.60	54.177	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	59.66	2.50	6634.02	29885.30	6634.02	0.30	0.63	307.83	2.50	16677.60	33145.60	16677.60	54.177	
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	59.66	2.50	6634.02	30186.60	6634.02	0.30	0.63	307.83	2.50	16677.60	33479.70	16677.60	54.177	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	45.33	2.50	5312.50	24566.20	5312.50	0.25	0.63	199.89	2.50	16677.60	28353.20	16677.60	83.432	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	45.33	2.50	5312.50	24683.40	5312.50	0.25	0.63	199.89	2.50	16677.60	28488.50	16677.60	83.432	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	45.33	2.50	5312.50	24924.60	5312.50	0.25	0.63	199.89	2.50	16677.60	28766.90	16677.60	83.432	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	122.43	2.50	5312.50	25601.70	5312.50	0.25	0.63	352.06	2.50	16677.60	29548.40	16677.60	43.392	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	122.43	2.50	5312.50	25601.70	5312.50	0.25	0.63	352.06	2.50	16677.60	29548.40	16677.60	43.392	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	122.43	2.50	5312.50	25601.70	5312.50	0.25	0.63	352.06	2.50	16677.60	29548.40	16677.60	43.392	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	223.09	2.50	5312.50	25601.70	5312.50	0.25	0.63	144.60	2.50	16677.60	29548.40	16677.60	23.813	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	223.09	2.50	5312.50	25601.70	5312.50	0.25	0.63	144.60	2.50	16677.60	29548.40	16677.60	23.813	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	223.09	2.50	5312.50	25601.70	5312.50	0.25	0.63	144.60	2.50	16677.60	29548.40	16677.60	23.813	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	61.76	2.50	5312.50	23900.10	5312.50	0.25	0.63	625.94	2.50	16677.60	27584.40	16677.60	26.644	
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	61.76	2.50	5312.50	23853.20	5312.50	0.25	0.63	625.94	2.50	16677.60	27530.30	16677.60	26.644	
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	61.76	2.50	5312.50	23756.70	5312.50	0.25	0.63	625.94	2.50	16677.60	27419.00	16677.60	26.644	

Relazione di calcolo

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>
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 _r	Sic.
0.00	1(e)	SLU	1	2	0.00	-189447.00	728.89	3788.94	98.42	3788.94	-466051.00	20676.10	21392.50	68.91	1.97	2.460
0.00	1(e)	SLU	1	2	0.00	-189447.00	728.89	3788.94	98.42	3788.94	-466051.00	20676.10	21392.50	68.91	1.97	2.460
3.26	1(e)	SLU	1	2	326.00	-186565.00	-476.21	-3731.31	-236.33	-3731.31	-466051.00	-20684.60	-21408.00	248.91	2.01	2.498
6.50	1(e)	SLU	3	21	0.00	-147082.00	290.90	2941.65	-41.10	-2941.65	-353140.00	12918.30	-12633.70	281.95	1.74	2.401
6.50	1(e)	SLU	3	21	0.00	-147082.00	290.90	2941.65	-41.10	-2941.65	-353140.00	12918.30	-12633.70	281.95	1.74	2.401
9.26	1(e)	SLU	3	21	276.00	-145253.00	-121.89	-2905.05	67.50	2905.05	-353140.00	-12925.20	12642.40	101.95	1.77	2.431
9.50	1(e)	SLU	4	21	0.00	-126748.00	-159.32	-2534.95	-121.21	-2534.95	-353140.00	-12959.70	-12608.70	258.05	2.15	2.786
9.50	1(e)	SLU	4	21	0.00	-126748.00	-159.32	-2534.95	-121.21	-2534.95	-353140.00	-12959.70	-12608.70	258.05	2.15	2.786
12.26	1(e)	SLU	4	21	276.00	-124918.00	91.03	2498.35	136.09	2498.35	-353140.00	12962.70	12597.10	78.05	2.19	2.827
12.50	1(e)	SLU	5	21	0.00	-106537.00	109.86	2130.74	-285.11	-2130.74	-353140.00	12252.40	-12586.10	281.25	2.60	3.315
12.50	1(e)	SLU	5	21	0.00	-106537.00	109.86	2130.74	-285.11	-2130.74	-353140.00	12252.40	-12586.10	281.25	2.60	3.315
15.26	1(e)	SLU	5	21	276.00	-104707.00	-59.29	-2094.14	363.56	2094.14	-353140.00	-12253.30	12557.40	101.25	2.65	3.373
15.50	1(e)	SLU	6	22	0.00	-86433.50	-73.82	-1728.67	-309.54	-1728.67	-303890.00	-9472.19	-9170.59	262.27	2.53	3.516
15.50	1(e)	SLU	6	22	0.00	-86433.50	-73.82	-1728.67	-309.54	-1728.67	-289480.00	-8793.62	-8788.20	260.86	2.53	3.349
18.26	1(e)	SLU	6	22	276.00	-84908.60	45.16	1698.17	350.25	1698.17	-289480.00	8780.00	8764.43	80.86	2.57	3.409
18.50	1(e)	SLU	7	22	0.00	-66810.30	57.71	1336.21	-427.82	-1336.21	-289480.00	8259.22	-8327.38	278.79	3.25	4.333
18.50	1(e)	SLU	7	22	0.00	-66810.30	57.71	1336.21	-427.82	-1336.21	-289480.00	8259.22	-8327.38	278.79	3.25	4.333
21.26	1(e)	SLU	7	22	276.00	-65285.40	-71.23	-1305.71	420.98	1305.71	-289480.00	-8236.39	8270.67	98.79	3.32	4.434
21.50	1(e)	SLU	8	22	0.00	-47263.30	-77.42	-945.27	-524.60	-945.27	-289480.00	-7548.93	-7558.48	261.91	4.26	6.125
21.50	1(e)	SLU	8	22	0.00	-47263.30	-77.42	-945.27	-524.60	-945.27	-289480.00	-7548.93	-7558.48	261.91	4.26	6.125
24.26	1(e)	SLU	8	22	276.00	-45738.40	273.90	914.77	574.91	914.77	-289480.00	7361.27	7497.15	82.27	4.41	6.329
24.50	1(e)	SLU	9	22	0.00	-28009.60	303.29	560.19	-520.14	-560.19	-289480.00	6244.31	-6375.05	275.62	6.27	10.335
24.50	1(e)	SLU	9	22	0.00	-28009.60	303.29	560.19	-520.14	-560.19	-289480.00	6244.31	-6375.05	275.62	6.27	10.335
27.26	1(e)	SLU	9	22	276.00	-26484.70	-4.54	-529.70	389.35	529.70	-289480.00	-6272.38	6256.47	95.62	6.40	10.930

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
---	2	3.00	34.64	33.29
---	2	3.00	34.64	33.29
---	2	3.00	34.64	33.29

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 _r	Sic.
3.50	1(e)	SLU	2	21	0.00	-167532.00	-567.64	-3350.63	118.73	3350.63	-367550.00	-12395.30	12226.20	102.66	1.47	2.194
3.50	1(e)	SLU	2	21	0.00	-167532.00	-567.64	-3350.63	118.73	3350.63	-353140.00	-11363.30	11203.80	101.95	1.39	2.108
6.26	1(e)	SLU	2	21	276.00	-165702.00	228.88	3314.03	-40.73	-3314.03	-353140.00	11382.80	-11234.20	281.95	1.42	2.131

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 _c <daN/cmq>	σ _ε <daN/cmq>	
0.00	2	SLE	R	1	2	0.00	-135534.00	72.74	532.88	0.00	20.11	46.69	696.09
0.00	4	SLE	Q	1	2	0.00	-112234.00	66.04	442.20	0.00	20.11	38.70	576.77
0.00	2	SLE	R	1	2	0.00	-135534.00	72.74	532.88	0.00	20.11	46.69	696.09
0.00	4	SLE	Q	1	2	0.00	-112234.00	66.04	442.20	0.00	20.11	38.70	576.77
3.26	2	SLE	R	1	2	326.00	-133317.00	-172.96	-344.56	0.00	20.11	45.91	683.76
3.26	4	SLE	Q	1	2	326.00	-110018.00	-154.57	-280.06	0.00	20.11	37.93	564.75
3.50	2	SLE	R	2	21	0.00	-119766.00	90.22	-411.77	0.00	20.11	53.37	794.01
3.50	4	SLE	Q	2	21	0.00	-99005.60	89.04	-337.63	0.00	20.11	44.23	657.49
3.50	2	SLE	R	2	21	0.00	-119766.00	90.22	-411.77	0.00	16.09	54.77	814.81
3.50	4	SLE	Q	2	21	0.00	-99005.60	89.04	-337.63	0.00	16.09	45.39	674.74
6.26	2	SLE	R	2	21	276.00	-118359.00	-36.15	166.03	0.00	16.09	52.80	789.23
6.26	4	SLE	Q	2	21	276.00	-97598.00	-48.61	133.65	0.00	16.09	43.69	652.33
6.50	2	SLE	R	3	21	0.00	-105101.00	-19.84	210.49	0.00	16.09	47.00	702.67
6.50	4	SLE	Q	3	21	0.00	-86818.90	11.45	168.17	0.00	16.09	38.76	579.74
6.50	2	SLE	R	3	21	0.00	-105101.00	-19.84	210.49	0.00	16.09	47.00	702.67
6.50	4	SLE	Q	3	21	0.00	-86818.90	11.45	168.17	0.00	16.09	38.76	579.74
9.26	2	SLE	R	3	21	276.00	-103693.00	37.95	-90.75	0.00	16.09	46.11	689.45
9.26	4	SLE	Q	3	21	276.00	-85411.30	1.64	-75.07	0.00	16.09	37.73	565.25
9.50	2	SLE	R	4	21	0.00	-90512.50	-73.85	-118.71	0.00	16.09	40.75	607.31
9.50	4	SLE	Q	4	21	0.00	-74684.80	-25.10	-99.56	0.00	16.09	33.32	497.97
9.50	2	SLE	R	4	21	0.00	-90512.50	-73.85	-118.71	0.00	16.09	40.75	607.31
9.50	4	SLE	Q	4	21	0.00	-74684.80	-25.10	-99.56	0.00	16.09	33.32	497.97
12.26	2	SLE	R	4	21	276.00	-89104.90	84.20	65.48	0.00	16.09	40.03	596.50
12.26	4	SLE	Q	4	21	276.00	-73277.20	32.60	57.33	0.00	16.09	32.61	487.42
12.50	2	SLE	R	5	21	0.00	-76009.30	-187.03	78.62	0.00	16.09	35.23	520.23
12.50	4	SLE	Q	5	21	0.00	-62610.80	-108.15	66.78	0.00	16.09	28.63	424.50
12.50	2	SLE	R	5	21	0.00	-76009.30	-187.03	78.62	0.00	16.09	35.23	520.23
12.50	4	SLE	Q	5	21	0.00	-62610.80	-108.15	66.78	0.00	16.09	28.63	424.50
15.26	2	SLE	R	5	21	276.00	-74601.70	241.83	-41.85	0.00	16.09	34.96	514.18
15.26	4	SLE	Q	5	21	276.00	-61203.20	149.91	-33.43	0.00	16.09	28.26	417.44
15.50	2	SLE	R	6	22	0.00	-61580.30	-207.48	-52.94	0.00	16.09	34.55	503.08
15.50	4	SLE	Q	6	22	0.00	-50591.10	-133.43	-44.47	0.00	16.09	27.92	409.00
15.50	2	SLE	R	6	22	0.00	-61580.30	-207.48	-52.94	0.00	12.06	35.58	518.53
15.50	4	SLE	Q	6	22	0.00	-50591.10	-133.43	-44.47	0.00	12.06	28.77	421.70
18.26	2	SLE	R	6	22	276.00	-60407.30	235.40	33.12	0.00	12.06	35.22	511.31

Relazione di calcolo

18.26	4	SLE	Q	6	22	276.00	-49418.10	153.45	26.63	0.00	12.06	28.32	413.67
18.50	2	SLE	R	7	22	0.00	-47509.70	-288.69	41.38	0.00	12.06	29.07	415.20
18.50	4	SLE	Q	7	22	0.00	-38904.30	-191.29	31.59	0.00	12.06	23.23	334.56
18.50	2	SLE	R	7	22	0.00	-47509.70	-288.69	41.38	0.00	12.06	29.07	415.20
18.50	4	SLE	Q	7	22	0.00	-38904.30	-191.29	31.59	0.00	12.06	23.23	334.56
21.26	2	SLE	R	7	22	276.00	-46336.70	284.30	-49.46	0.00	12.06	28.43	405.80
21.26	4	SLE	Q	7	22	276.00	-37731.30	188.95	-41.41	0.00	12.06	22.62	325.50
21.50	2	SLE	R	8	22	0.00	-33492.40	-355.91	-54.58	0.00	12.06	22.52	312.08
21.50	4	SLE	Q	8	22	0.00	-27258.10	-242.31	-47.47	0.00	12.06	17.75	248.60
21.50	2	SLE	R	8	22	0.00	-33492.40	-355.91	-54.58	0.00	12.06	22.52	312.08
21.50	4	SLE	Q	8	22	0.00	-27258.10	-242.31	-47.47	0.00	12.06	17.75	248.60
24.26	2	SLE	R	8	22	276.00	-32319.40	390.70	212.33	0.00	12.06	23.04	315.96
24.26	4	SLE	Q	8	22	276.00	-26085.10	270.06	176.53	0.00	12.06	18.05	249.99
24.50	2	SLE	R	9	22	0.00	-19677.40	-352.62	234.08	0.00	12.06	15.94	211.93
24.50	4	SLE	Q	9	22	0.00	-15763.90	-232.94	193.30	0.00	12.06	12.17	164.29
24.50	2	SLE	R	9	22	0.00	-19677.40	-352.62	234.08	0.00	12.06	15.94	211.93
24.50	4	SLE	Q	9	22	0.00	-15763.90	-232.94	193.30	0.00	12.06	12.17	164.29
27.26	2	SLE	R	9	22	276.00	-18504.40	261.56	-1.33	0.00	12.06	13.13	178.38
27.26	4	SLE	Q	9	22	276.00	-14590.90	160.51	2.40	0.00	12.06	9.78	135.36

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br ₁	Br ₂	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	Sic.
<m>	<m>						<m>	<m>	<daN>		<daN>	<daN>	<daN>	<m>	<m>	<daN>		<daN>	<daN>	<daN>	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.35	102.68	2.50	12369.40	24925.40	12369.40	0.40	0.63	369.66	2.50	22236.70	26358.20	22236.70	60.154	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	102.68	2.50	12369.40	25130.00	12369.40	0.40	0.63	369.66	2.50	22236.70	26574.60	22236.70	60.154	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.35	102.68	2.50	12369.40	25701.80	12369.40	0.40	0.63	369.66	2.50	22236.70	27179.20	22236.70	60.154	
3.50	4.18	ø6/15	2	21	SLU	0.68	0.25	57.78	2.50	6634.02	9565.08	6634.02	0.30	0.63	288.60	1.90	12677.90	12677.90	12677.90	43.930	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	57.78	2.50	6634.02	9711.41	6634.02	0.30	0.63	288.60	1.92	12801.20	12801.20	12801.20	44.356	
5.58	6.26	ø6/15	2	21	SLU	0.68	0.25	57.78	2.50	6634.02	10012.70	6634.02	0.30	0.63	288.60	1.96	13051.20	13051.20	13051.20	45.223	
6.50	7.18	ø6/15	2	21	SLU	0.68	0.25	39.35	2.50	6634.02	12602.20	6634.02	0.30	0.63	149.56	2.50	16677.60	17969.80	16677.60	>100	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	39.35	2.50	6634.02	16348.60	6634.02	0.30	0.63	149.56	2.50	16677.60	18132.10	16677.60	>100	
8.58	9.26	ø6/15	2	21	SLU	0.68	0.25	39.35	2.50	6634.02	16649.80	6634.02	0.30	0.63	149.56	2.50	16677.60	18466.20	16677.60	>100	
9.50	10.18	ø6/15	2	21	SLU	0.68	0.25	93.23	2.50	6634.02	22802.30	6634.02	0.30	0.63	90.71	2.50	16677.60	25289.90	16677.60	71.161	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.25	93.23	2.50	6634.02	22948.60	6634.02	0.30	0.63	90.71	2.50	16677.60	25452.20	16677.60	71.161	
11.58	12.26	ø6/15	2	21	SLU	0.68	0.25	93.23	2.50	6634.02	23249.90	6634.02	0.30	0.63	90.71	2.50	16677.60	25786.30	16677.60	71.161	
12.50	13.18	ø6/15	2	21	SLU	0.68	0.25	235.03	2.50	6634.02	29362.00	6634.02	0.30	0.63	61.29	2.50	16677.60	32565.20	16677.60	28.227	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.25	235.03	2.50	6634.02	29508.40	6634.02	0.30	0.63	61.29	2.50	16677.60	32727.50	16677.60	28.227	
14.58	15.26	ø6/15	2	21	SLU	0.68	0.25	235.03	2.50	6634.02	29809.60	6634.02	0.30	0.63	61.29	2.50	16677.60	33061.60	16677.60	28.227	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	239.06	2.50	5312.50	24245.10	5312.50	0.25	0.63	43.11	2.50	16677.60	27982.70	16677.60	22.223	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	239.06	2.50	5312.50	24362.30	5312.50	0.25	0.63	43.11	2.50	16677.60	28117.90	16677.60	22.223	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	239.06	2.50	5312.50	24603.60	5312.50	0.25	0.63	43.11	2.50	16677.60	28396.30	16677.60	22.223	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	307.54	2.50	5312.50	25601.70	5312.50	0.25	0.63	46.72	2.50	16677.60	29548.40	16677.60	17.274	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	307.54	2.50	5312.50	25601.70	5312.50	0.25	0.63	46.72	2.50	16677.60	29548.40	16677.60	17.274	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	307.54	2.50	5312.50	25601.70	5312.50	0.25	0.63	46.72	2.50	16677.60	29548.40	16677.60	17.274	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	398.37	2.50	5312.50	25601.70	5312.50	0.25	0.63	127.29	2.50	16677.60	29548.40	16677.60	13.335	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	398.37	2.50	5312.50	25601.70	5312.50	0.25	0.63	127.29	2.50	16677.60	29548.40	16677.60	13.335	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	398.37	2.50	5312.50	25601.70	5312.50	0.25	0.63	127.29	2.50	16677.60	29548.40	16677.60	13.335	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	329.53	2.50	5312.50	23975.80	5312.50	0.25	0.63	111.53	2.50	16677.60	27671.80	16677.60	16.122	
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	329.53	2.50	5312.50	23929.00	5312.50	0.25	0.63	111.53	2.50	16677.60	27617.70	16677.60	16.122	
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	329.53	2.50	5312.50	23832.50	5312.50	0.25	0.63	111.53	2.50	16677.60	27506.40	16677.60	16.122	

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>
22	R	25.00	68.00	4.60	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 _r	Sic.
9.50	1(e)	SLU	4	22	0.00	-81479.10	-395.54	-1629.58	-2098.70	-2098.70	-303890.00	-7295.21	-9475.25	264.02	2.73	3.730
9.50	1(e)	SLU	4	22	0.00	-81479.10	-395.54	-1629.58	-2098.70	-2098.70	-289480.00	-6990.77	-9106.49	262.62	2.73	3.553
12.26	1(e)	SLU	4	22	276.00	-79954.20	357.18	1599.08	2051.21	2051.21	-289480.00	6969.12	9061.70	82.62	2.79	3.621
12.50	1(e)	SLU	5	22	0.00	-68742.90	-236.54	-1374.86	-2202.32	-2202.32	-68742.90	-5681.84	-8963.47	263.67	3.30	4.088
12.50	1(e)	SLU	5	22	0.00	-68742.90	-236.54	-1374.86	-2202.32	-2202.32	-68742.90	-5681.84	-8963.47	263.67	3.30	4.088
15.26	1(e)	SLU	5	22	276.00	-67218.00	259.33	1344.36	2162.22	2162.22	-67218.00	5656.01	8913.75	83.67	3.37	4.146
15.50	1(e)	SLU	6	22	0.00	-55819.30	-384.52	-1116.39	-2290.26	-2290.26	-55819.30	-3959.65	-8469.21	266.13	4.51	3.669
15.50	1(e)	SLU	6	22	0.00	-55819.30	-384.52	-1116.39	-2290.26	-2290.26	-55819.30	-3959.65	-8469.21	266.13	4.51	3.669
18.26	1(e)	SLU	6	22	276.00	-54294.40	360.88	-1085.89	2243.84	2243.84	-54294.40	-4012.70	8371.44	93.87	4.63	3.724
18.50	1(e)	SLU	7	22	0.00	-42742.70	-292.94	-854.85	-2438.95	-2438.95	-42742.70	-2760.35	-7674.12	267.71	6.11	3.156
18.50	1(e)	SLU	7	22	0.00	-42742.70	-292.94	-854.85	-2438.95	-2438.95	-42742.70	-2760.35	-7674.12	267.71	6.11	3.156
21.26	1(e)	SLU	7	22	276.00	-41217.80	265.98	824.36	2421.62	2421.62	-41217.80	2484.48	7555.34	87.89	6.31	3.109
21.50	1(e)	SLU	8	22	0.00	-29563.00	-418.63	-591.26	-2355.00	-2355.00	-29563.00	-1582.12	-6682.87	268.77	8.18	2.828
21.50	1(e)	SLU	8	22	0.00	-29563.00	-418.63	-591.26	-2355.00	-2355.00	-29563.00	-1582.12	-6682.87	268.77	8.18	2.828
24.26	1	SLU	8	22	276.00	-28038.10	618.60	618.60	2092.58	2092.58	-28038.10	1943.77	6576.18	88.59	8.30	3.143
24.50	1(e)	SLU	9	22	0.00	-16079.00	-40.20	-321.58	-3379.41	-3379.41	-16079.00	-499.01	-5558.89	269.56	10.63	1.644
24.50	1(e)	SLU	9	22	0.00	-16079.00	-40.20	-321.58	-3379.41	-3379.41	-16079.00	-499.01	-5558.89	269.56	10.63	1.644
27.26	1	SLU	9	22	276.00	-14554.10	355.16	355.16	4437.56	4437.56	-14554.10	505.00	5432.70	89.56	10.85	1.226

Relazione di calcolo

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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 _r	Sic.
0.00	1(e)	SLU	1	22	0.00	-118657.00	394.25	2373.15	-699.36	-2373.15	-318299.00	8280.21	-8235.68	278.09	1.78	2.683
0.00	1(e)	SLU	1	22	0.00	-118657.00	394.25	2373.15	-699.36	-2373.15	-318299.00	8280.21	-8235.68	278.09	1.78	2.683
3.26	1(e)	SLU	1	22	326.00	-116856.00	-202.12	-2337.12	1266.52	2337.12	-318299.00	-8314.47	8253.27	98.09	1.81	2.724
3.50	1(e)	SLU	2	22	0.00	-106406.00	-693.22	-2128.12	-2085.76	-2128.12	-318299.00	-8772.44	-8976.44	261.91	2.04	2.991
3.50	1(e)	SLU	2	22	0.00	-106406.00	-693.22	-2128.12	-2085.76	-2128.12	-303890.00	-8254.90	-7977.13	262.27	2.02	2.856
6.26	1(e)	SLU	2	22	276.00	-104881.00	443.08	2097.62	1908.88	2097.62	-303890.00	8269.51	7968.83	82.27	2.06	2.897
6.50	1(e)	SLU	3	22	0.00	-94028.20	-41.73	-1880.56	-1939.43	-1939.43	-303890.00	-7850.83	-8032.92	262.62	2.32	3.232
6.50	1(e)	SLU	3	22	0.00	-94028.20	-41.73	-1880.56	-1939.43	-1939.43	-303890.00	-7850.83	-8032.92	262.62	2.32	3.232
9.26	1(e)	SLU	3	22	276.00	-92503.30	183.40	1850.07	1937.54	1937.54	-303890.00	7867.06	8022.14	82.62	2.37	3.285

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 _e <daN/cmq>	σ _f <daN/cmq>
0.00	2	SLE	R	1	22	0.00	-85995.00	-494.94	285.21	0.00	20.11	715.80
0.00	4	SLE	Q	1	22	0.00	-74193.70	-397.84	222.04	0.00	20.11	612.98
0.00	2	SLE	R	1	22	0.00	-85995.00	-494.94	285.21	0.00	20.11	715.80
0.00	4	SLE	Q	1	22	0.00	-74193.70	-397.84	222.04	0.00	20.11	612.98
3.26	2	SLE	R	1	22	326.00	-84609.50	896.32	-138.67	0.00	20.11	743.08
3.26	4	SLE	Q	1	22	326.00	-72808.20	720.13	-85.49	0.00	20.11	631.82
3.50	2	SLE	R	2	22	0.00	-77057.10	-1474.66	-513.23	0.00	20.11	772.06
3.50	4	SLE	Q	2	22	0.00	-66383.50	-1180.78	-457.09	0.00	20.11	655.76
3.50	2	SLE	R	2	22	0.00	-77057.10	-1474.66	-513.23	0.00	16.09	796.55
3.50	4	SLE	Q	2	22	0.00	-66383.50	-1180.78	-457.09	0.00	16.09	676.50
6.26	2	SLE	R	2	22	276.00	-75884.10	1348.50	330.17	0.00	16.09	762.74
6.26	4	SLE	Q	2	22	276.00	-65210.50	1076.51	300.27	0.00	16.09	646.68
6.50	2	SLE	R	3	22	0.00	-68050.60	-1368.41	-38.63	0.00	16.09	688.74
6.50	4	SLE	Q	3	22	0.00	-58560.30	-1086.34	-69.29	0.00	16.09	583.92
6.50	2	SLE	R	3	22	0.00	-68050.60	-1368.41	-38.63	0.00	16.09	688.74
6.50	4	SLE	Q	3	22	0.00	-58560.30	-1086.34	-69.29	0.00	16.09	583.92
9.26	2	SLE	R	3	22	276.00	-66877.60	1366.37	138.61	0.00	16.09	684.86
9.26	4	SLE	Q	3	22	276.00	-57387.30	1083.07	148.07	0.00	16.09	578.74
9.50	2	SLE	R	4	22	0.00	-58927.60	-1478.44	-299.59	0.00	16.09	645.33
9.50	4	SLE	Q	4	22	0.00	-50647.80	-1168.12	-281.77	0.00	16.09	543.91
9.50	2	SLE	R	4	22	0.00	-58927.60	-1478.44	-299.59	0.00	12.06	661.04
9.50	4	SLE	Q	4	22	0.00	-50647.80	-1168.12	-281.77	0.00	12.06	557.51
12.26	2	SLE	R	4	22	276.00	-57754.60	1444.33	267.54	0.00	12.06	645.82
12.26	4	SLE	Q	4	22	276.00	-49474.80	1139.19	256.30	0.00	12.06	543.28
12.50	2	SLE	R	5	22	0.00	-49676.30	-1549.68	-181.91	0.00	12.06	588.82
12.50	4	SLE	Q	5	22	0.00	-42635.20	-1219.72	-184.45	0.00	12.06	494.04
12.50	2	SLE	R	5	22	0.00	-49676.30	-1549.68	-181.91	0.00	12.06	588.82
12.50	4	SLE	Q	5	22	0.00	-42635.20	-1219.72	-184.45	0.00	12.06	494.04
15.26	2	SLE	R	5	22	276.00	-48503.30	1521.16	198.22	0.00	12.06	577.06
15.26	4	SLE	Q	5	22	276.00	-41462.20	1196.45	198.98	0.00	12.06	482.79
15.50	2	SLE	R	6	22	0.00	-40294.60	-1610.80	-287.29	0.00	12.06	527.29
15.50	4	SLE	Q	6	22	0.00	-34517.80	-1265.85	-272.74	0.00	12.06	439.84
15.50	2	SLE	R	6	22	0.00	-40294.60	-1610.80	-287.29	0.00	12.06	527.29
15.50	4	SLE	Q	6	22	0.00	-34517.80	-1265.85	-272.74	0.00	12.06	439.84
18.26	2	SLE	R	6	22	276.00	-39121.60	1578.11	270.86	0.00	12.06	513.14
18.26	4	SLE	Q	6	22	276.00	-33344.80	1240.24	256.81	0.00	12.06	426.55
18.50	2	SLE	R	7	22	0.00	-30806.30	-1714.38	-221.49	0.00	12.06	466.55
18.50	4	SLE	Q	7	22	0.00	-26314.70	-1345.57	-222.28	0.00	12.06	383.89
18.50	2	SLE	R	7	22	0.00	-30806.30	-1714.38	-221.49	0.00	12.06	466.55
18.50	4	SLE	Q	7	22	0.00	-26314.70	-1345.57	-222.28	0.00	12.06	383.89
21.26	2	SLE	R	7	22	276.00	-29633.30	1701.33	204.35	2.01	10.05	455.81
21.26	4	SLE	Q	7	22	276.00	-25141.70	1333.80	204.09	0.00	12.06	372.97
21.50	2	SLE	R	8	22	0.00	-21246.40	-1657.32	-308.72	6.03	6.03	409.53
21.50	4	SLE	Q	8	22	0.00	-18054.50	-1302.65	-293.99	6.03	6.03	332.68
21.50	2	SLE	R	8	22	0.00	-21246.40	-1657.32	-308.72	6.03	6.03	409.53
21.50	4	SLE	Q	8	22	0.00	-18054.50	-1302.65	-293.99	6.03	6.03	332.68
24.26	2	SLE	R	8	22	276.00	-20073.40	1475.57	469.25	6.03	6.03	386.01
24.26	4	SLE	Q	8	22	276.00	-16881.50	1164.55	418.04	6.03	6.03	313.17
24.50	2	SLE	R	9	22	0.00	-11476.40	-2361.82	-19.34	6.03	6.03	1227.97
24.50	4	SLE	Q	9	22	0.00	-9636.30	-1832.56	-63.36	6.03	6.03	904.25
24.50	2	SLE	R	9	22	0.00	-11476.40	-2361.82	-19.34	6.03	6.03	1227.97
24.50	4	SLE	Q	9	22	0.00	-9636.30	-1832.56	-63.36	6.03	6.03	904.25
27.26	2	SLE	R	9	22	276.00	-10303.40	3087.16	263.93	6.03	6.03	2007.63
27.26	4	SLE	Q	9	22	276.00	-8463.30	2377.31	284.87	6.03	6.03	1515.50

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm ² >	ε _{sm}	W _k <mm>
24.50	4	SLE Q	9	22	0.00	-9636.30	-63.36	-1832.56	39.00	293.00	0.50	16.00	174.58	6.03	364.08	904.25	0.26	0.08
24.50	3	SLE F	9	22	0.00	-10107.60	-51.00	-1975.91	39.00	293.00	0.50	16.00	175.55	6.03	367.76	993.81	0.29	0.09
24.50	4	SLE Q	9	22	0.00	-9636.30	-63.36	-1832.56	39.00	293.00	0.50	16.00	174.58	6.03	364.08	904.25	0.26	0.08
24.50	3	SLE F	9	22	0.00	-10107.60	-51.00	-1975.91	39.00	293.00	0.50	16.00	175.55	6.03	367.76	993.81	0.29	0.09

Relazione di calcolo

27.26	4	SLE Q	9	22	276.00	-8463.30	284.87	2377.31	39.00	293.00	0.50	16.00	177.55	6.03	375.29	1515.50	0.52	0.16
27.26	3	SLE F	9	22	276.00	-8934.59	278.92	2563.28	39.00	293.00	0.50	16.00	178.27	6.03	378.00	1645.22	0.48	0.15

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	Sic.
<m>	<m>						<m>	<m>	<daN>		<daN>	<daN>	<daN>	<m>	<m>	<daN>		<daN>	<daN>	<daN>	
0.00	0.68	ø8/20	2	21	SLU	0.68	0.20	603.03	2.50	7083.33	14194.60	7083.33	0.25	0.63	182.94	2.08	18533.00	18533.00	18533.00	11.746	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.20	603.03	2.50	7083.33	14311.80	7083.33	0.25	0.63	182.94	2.09	18626.90	18626.90	18626.90	11.746	
2.58	3.26	ø8/20	2	21	SLU	0.68	0.20	603.03	2.50	7083.33	14639.20	7083.33	0.25	0.63	182.94	2.12	18886.70	18886.70	18886.70	11.746	
3.50	4.18	ø6/15	2	21	SLU	0.68	0.20	1447.33	2.50	5312.50	18015.80	5312.50	0.25	0.63	411.70	2.50	16677.60	20793.00	16677.60	3.671	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.20	1447.33	2.50	5312.50	18133.00	5312.50	0.25	0.63	411.70	2.50	16677.60	20928.30	16677.60	3.671	
5.58	6.26	ø6/15	2	21	SLU	0.68	0.20	1447.33	2.50	5312.50	18374.20	5312.50	0.25	0.63	411.70	2.50	16677.60	21206.70	16677.60	3.671	
6.50	7.18	ø6/15	2	21	SLU	0.68	0.20	1404.70	2.50	5312.50	21876.40	5312.50	0.25	0.63	81.57	2.50	16677.60	25248.70	16677.60	3.782	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.20	1404.70	2.50	5312.50	21993.60	5312.50	0.25	0.63	81.57	2.50	16677.60	25384.00	16677.60	3.782	
8.58	9.26	ø6/15	2	21	SLU	0.68	0.20	1404.70	2.50	5312.50	22234.80	5312.50	0.25	0.63	81.57	2.50	16677.60	25662.40	16677.60	3.782	
9.50	10.18	ø6/15	2	21	SLU	0.68	0.20	1503.59	2.50	5312.50	25601.70	5312.50	0.25	0.63	272.73	2.50	16677.60	29548.40	16677.60	3.533	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.20	1503.59	2.50	5312.50	25601.70	5312.50	0.25	0.63	272.73	2.50	16677.60	29548.40	16677.60	3.533	
11.58	12.26	ø6/15	2	21	SLU	0.68	0.20	1503.59	2.50	5312.50	25601.70	5312.50	0.25	0.63	272.73	2.50	16677.60	29548.40	16677.60	3.533	
12.50	13.18	ø6/15	2	21	SLU	0.68	0.20	1581.36	2.50	5312.50	25601.70	5312.50	0.25	0.63	179.66	2.50	16677.60	29548.40	16677.60	3.359	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.20	1581.36	2.50	5312.50	25601.70	5312.50	0.25	0.63	179.66	2.50	16677.60	29548.40	16677.60	3.359	
14.58	15.26	ø6/15	2	21	SLU	0.68	0.20	1581.36	2.50	5312.50	25601.70	5312.50	0.25	0.63	179.66	2.50	16677.60	29548.40	16677.60	3.359	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	1642.79	2.50	5312.50	25601.70	5312.50	0.25	0.63	270.07	2.50	16677.60	29548.40	16677.60	3.234	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	1642.79	2.50	5312.50	25601.70	5312.50	0.25	0.63	270.07	2.50	16677.60	29548.40	16677.60	3.234	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	1642.79	2.50	5312.50	25601.70	5312.50	0.25	0.63	270.07	2.50	16677.60	29548.40	16677.60	3.234	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	1761.07	2.50	5312.50	25601.70	5312.50	0.25	0.63	202.51	2.50	16677.60	29548.40	16677.60	3.017	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	1761.07	2.50	5312.50	25601.70	5312.50	0.25	0.63	202.51	2.50	16677.60	29548.40	16677.60	3.017	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	1761.07	2.50	5312.50	25601.70	5312.50	0.25	0.63	202.51	2.50	16677.60	29548.40	16677.60	3.017	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	1611.44	2.50	5312.50	24169.60	5312.50	0.25	0.63	375.81	2.50	16677.60	27895.50	16677.60	3.297	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	1611.44	2.50	5312.50	24122.80	5312.50	0.25	0.63	375.81	2.50	16677.60	27841.40	16677.60	3.297	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	1611.44	2.50	5312.50	24026.30	5312.50	0.25	0.63	375.81	2.50	16677.60	27730.00	16677.60	3.297	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	2832.23	2.50	5312.50	22487.40	5312.50	0.25	0.63	143.25	2.50	16677.60	25953.90	16677.60	1.876	
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	2832.23	2.50	5312.50	22440.50	5312.50	0.25	0.63	143.25	2.50	16677.60	25899.80	16677.60	1.876	
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	2832.23	2.50	5312.50	22344.00	5312.50	0.25	0.63	143.25	2.50	16677.60	25788.50	16677.60	1.876	

Pilastrata n. 35

Nodi: 35 335 535 735 935 1135 1335 1535 1735 1935

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	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	α	ε _r	Sic.	
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>			
0.00	1	(e)	SLU	1	1	0.00	-108204.00	-858.99	-2164.08	834.38	2164.08	-333837.00	-13100.20	12921.40	123.75	2.53	3.085
0.00	1	(e)	SLU	1	1	0.00	-108204.00	-858.99	-2164.08	834.38	2164.08	-333837.00	-13100.20	12921.40	123.75	2.53	3.085
3.26	1	(e)	SLU	1	1	326.00	-106085.00	2065.23	2121.70	-1575.49	-2121.70	-333837.00	13082.80	-12881.10	303.75	2.58	3.147
3.50	1	(e)	SLU	2	10	0.00	-95032.60	-1691.34	-1900.65	1889.89	1900.65	-246925.00	-8410.22	8449.26	142.03	1.91	2.598
3.50	1	(e)	SLU	2	10	0.00	-95032.60	-1691.34	-1900.65	1889.89	1900.65	-235893.00	-7878.90	7946.43	139.22	1.85	2.482
6.26	1	(e)	SLU	2	10	276.00	-93776.80	1764.82	1875.54	-1766.44	-1875.54	-235893.00	7877.83	-7939.29	319.22	1.88	2.515
6.50	1		SLU	3	10	0.00	-82598.20	-1860.46	-1860.46	1854.92	1854.92	-235893.00	-7829.16	7831.87	139.22	2.19	2.856
6.50	1		SLU	3	10	0.00	-82598.20	-1860.46	-1860.46	1854.92	1854.92	-235893.00	-7829.16	7831.87	139.22	2.19	2.856
9.26	1		SLU	3	10	276.00	-81342.40	1775.88	1775.88	-1849.50	-1849.50	-235893.00	7555.40	-8100.03	317.81	2.22	2.900
9.50	1		SLU	4	10	0.00	-70035.00	-1914.78	-1914.78	1922.41	1922.41	-235893.00	-7694.87	7622.81	139.22	2.58	3.368
9.50	1		SLU	4	10	0.00	-70035.00	-1914.78	-1914.78	1922.41	1922.41	-235893.00	-7694.87	7622.81	139.22	2.58	3.368
12.26	1		SLU	4	10	276.00	-68779.20	1823.62	1823.62	-1848.71	-1848.71	-235893.00	7677.31	-7597.45	319.22	2.62	3.430
12.50	1		SLU	5	10	0.00	-57335.40	-1919.17	-1919.17	2107.95	2107.95	-57335.40	-7035.98	7768.75	136.41	3.04	3.677
12.50	1		SLU	5	10	0.00	-57335.40	-1919.17	-1919.17	2107.95	2107.95	-57335.40	-7035.98	7768.75	136.41	3.04	3.677
15.26	1		SLU	5	10	276.00	-56079.60	1960.29	1960.29	-2226.86	-2226.86	-56079.60	6792.12	-7944.15	315.00	3.10	3.523
15.50	1		SLU	6	7	0.00	-44727.50	-1756.41	-1756.41	1366.30	1366.30	-44727.50	-5977.80	4563.79	127.97	2.78	3.380
15.50	1		SLU	6	7	0.00	-44727.50	-1756.41	-1756.41	1366.30	1366.30	-44727.50	-5388.21	4128.38	132.19	2.84	3.050
18.26	1		SLU	6	7	276.00	-43785.70	1801.45	1801.45	-1558.78	-1558.78	-43785.70	5041.36	-4373.74	309.38	2.89	2.802
18.50	1		SLU	7	7	0.00	-32591.80	-1875.60	-1875.60	1830.44	1830.44	-32591.80	-4428.87	4274.62	126.56	3.61	2.349
18.50	1		SLU	7	7	0.00	-32591.80	-1875.60	-1875.60	1830.44	1830.44	-32591.80	-4428.87	4274.62	126.56	3.61	2.349
21.26	1		SLU	7	7	276.00	-31649.90	1756.02	1756.02	-1760.56	-1760.56	-31649.90	4252.05	-4353.38	305.16	3.68	2.447
21.50	1		SLU	8	7	0.00	-20348.80	-1990.00	-1990.00	1723.41	1723.41	-20348.80	-4252.27	3608.42	129.38	4.59	2.118
21.50	1		SLU	8	7	0.00	-20348.80	-1990.00	-1990.00	1723.41	1723.41	-20348.80	-4252.27	3608.42	129.38	4.59	2.118
24.26	1		SLU	8	7	276.00	-19406.90	2104.16	2104.16	-1589.66	-1589.66	-19406.90	4454.32	-3377.34	312.19	4.70	2.120
24.50	1		SLU	9	7	0.00	-8011.53	-1445.56	-1445.56	2153.28	2153.28	-8011.53	-2299.96	3439.98	105.47	8.27	1.596
24.50	1		SLU	9	7	0.00	-8011.53	-1445.56	-1445.56	2153.28	2153.28	-8011.53	-2299.96	3439.98	105.47	8.27	1.596
27.26	1		SLU	9	7	276.00	-7069.68	734.90	734.90	-2577.63	-2577.63	-7069.68	980.17	-3499.51	274.92	12.32	1.356

Relazione di calcolo

6.50	4	SLE Q	3	10	0.00	-53081.20	1113.07	-1268.61	0.00	9.24	58.55	788.69
9.26	2	SLE R	3	10	276.00	-57018.90	-1297.61	1210.51	0.00	9.24	62.27	840.75
9.26	4	SLE Q	3	10	276.00	-52115.20	-1107.64	1208.29	0.00	9.24	57.23	771.64
9.50	2	SLE R	4	10	0.00	-49172.90	1350.24	-1309.43	0.00	9.24	58.71	781.62
9.50	4	SLE Q	4	10	0.00	-44914.90	1145.93	-1295.75	0.00	9.24	53.84	715.88
9.50	2	SLE R	4	10	0.00	-49172.90	1350.24	-1309.43	0.00	9.24	58.71	781.62
9.50	4	SLE Q	4	10	0.00	-44914.90	1145.93	-1295.75	0.00	9.24	53.84	715.88
12.26	2	SLE R	4	10	276.00	-48206.90	-1298.49	1246.66	0.00	9.24	56.93	759.15
12.26	4	SLE Q	4	10	276.00	-43949.00	-1099.64	1234.87	0.00	9.24	52.13	694.24
12.50	2	SLE R	5	10	0.00	-40263.50	1481.44	-1309.57	0.00	9.24	54.19	709.36
12.50	4	SLE Q	5	10	0.00	-36675.60	1251.86	-1300.88	0.00	9.24	49.57	647.96
12.50	2	SLE R	5	10	0.00	-40263.50	1481.44	-1309.57	0.00	9.24	54.19	709.36
12.50	4	SLE Q	5	10	0.00	-36675.60	1251.86	-1300.88	0.00	9.24	49.57	647.96
15.26	2	SLE R	5	10	276.00	-39297.50	-1565.01	1338.56	0.00	9.24	54.70	712.91
15.26	4	SLE Q	5	10	276.00	-35709.60	-1321.42	1327.96	0.00	9.24	49.92	649.75
15.50	2	SLE R	6	7	0.00	-31418.20	960.21	-1200.89	0.00	9.24	58.94	745.06
15.50	4	SLE Q	6	7	0.00	-28493.20	809.44	-1186.41	0.00	9.24	53.74	679.53
15.50	2	SLE R	6	7	0.00	-31418.20	960.21	-1200.89	0.00	6.16	61.01	772.20
15.50	4	SLE Q	6	7	0.00	-28493.20	809.44	-1186.41	0.00	6.16	55.71	705.10
18.26	2	SLE R	6	7	276.00	-30693.70	-1095.56	1230.99	0.00	6.16	63.40	794.21
18.26	4	SLE Q	6	7	276.00	-27768.70	-923.45	1216.45	0.00	6.16	57.73	723.25
18.50	2	SLE R	7	7	0.00	-22927.50	1286.50	-1282.29	1.54	4.62	64.74	772.56
18.50	4	SLE Q	7	7	0.00	-20653.70	1080.22	-1269.21	1.54	4.62	58.75	701.39
18.50	2	SLE R	7	7	0.00	-22927.50	1286.50	-1282.29	1.54	4.62	64.74	772.56
18.50	4	SLE Q	7	7	0.00	-20653.70	1080.22	-1269.21	1.54	4.62	58.75	701.39
21.26	2	SLE R	7	7	276.00	-22203.00	-1237.67	1201.72	1.54	4.62	61.62	737.03
21.26	4	SLE Q	7	7	276.00	-19929.20	-1035.36	1188.43	1.54	4.62	55.71	666.72
21.50	2	SLE R	8	7	0.00	-14361.60	1210.88	-1358.42	1.54	4.62	68.48	755.12
21.50	4	SLE Q	8	7	0.00	-12753.20	1022.32	-1340.25	1.54	4.62	63.04	692.54
21.50	2	SLE R	8	7	0.00	-14361.60	1210.88	-1358.42	1.54	4.62	68.48	755.12
21.50	4	SLE Q	8	7	0.00	-12753.20	1022.32	-1340.25	1.54	4.62	63.04	692.54
24.26	2	SLE R	8	7	276.00	-13637.10	-1117.20	1432.26	1.54	4.62	68.27	748.35
24.26	4	SLE Q	8	7	276.00	-12028.70	-953.35	1415.79	3.08	3.08	64.02	695.71
24.50	2	SLE R	9	7	0.00	-5729.01	1512.72	-998.35	4.62	1.54	84.72	1753.39
24.50	4	SLE Q	9	7	0.00	-4812.32	1229.25	-982.01	4.62	1.54	74.59	1516.33
24.50	2	SLE R	9	7	0.00	-5729.01	1512.72	-998.35	4.62	1.54	84.72	1753.39
24.50	4	SLE Q	9	7	0.00	-4812.32	1229.25	-982.01	4.62	1.54	74.59	1516.33
27.26	2	SLE R	9	7	276.00	-5004.51	-1812.10	541.16	3.08	3.08	80.67	2021.46
27.26	4	SLE Q	9	7	276.00	-4087.82	-1423.18	512.70	3.08	3.08	66.38	1608.29

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
21.50	4	SLE Q	8	7	0.00	-12753.20	-1340.25	1022.32	39.00	0.00	0.50	14.00	124.90	1.54	51.58	584.50	0.17	0.04
21.50	3	SLE F	8	7	0.00	-13184.70	-1345.32	1076.10	39.00	0.00	0.50	14.00	124.40	1.54	51.02	592.07	0.17	0.04
21.50	4	SLE Q	8	7	0.00	-12753.20	-1340.25	1022.32	39.00	0.00	0.50	14.00	124.90	1.54	51.58	584.50	0.17	0.04
21.50	3	SLE F	8	7	0.00	-13184.70	-1345.32	1076.10	39.00	0.00	0.50	14.00	124.40	1.54	51.02	592.07	0.17	0.04
24.26	4	SLE Q	8	7	276.00	-12028.70	1415.79	-953.35	39.00	208.00	0.50	14.00	128.96	1.54	56.04	648.35	0.19	0.04
24.26	3	SLE F	8	7	276.00	-12460.20	1420.45	-1000.99	39.00	0.00	0.50	14.00	127.90	1.54	54.87	647.72	0.19	0.04
24.50	4	SLE Q	9	7	0.00	-4812.32	-982.01	1229.25	39.00	258.00	0.50	14.00	202.50	1.54	102.17	1516.33	0.50	0.17
24.50	3	SLE F	9	7	0.00	-5048.10	-986.40	1306.17	39.00	258.00	0.50	14.00	200.60	1.54	104.55	1581.18	0.46	0.16
24.50	4	SLE Q	9	7	0.00	-4812.32	-982.01	1229.25	39.00	258.00	0.50	14.00	202.50	1.54	102.17	1516.33	0.50	0.17
24.50	3	SLE F	9	7	0.00	-5048.10	-986.40	1306.17	39.00	258.00	0.50	14.00	200.60	1.54	104.55	1581.18	0.46	0.16
27.26	4	SLE Q	9	7	276.00	-4087.82	512.70	-1423.18	39.00	258.00	0.50	14.00	230.29	1.54	167.46	1608.29	0.47	0.18
27.26	3	SLE F	9	7	276.00	-4323.60	520.51	-1525.33	39.00	258.00	0.50	14.00	234.58	1.54	172.17	1717.60	0.50	0.20

Stato limite ultimo - Verifiche a taglio

X0 <mm>	X1 <mm>	Staff.	Br _y	Br _z	CC	TCC bw _y <mm>	d _y <mm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <mm>	d _z <mm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.54	ø8/20	2	21	SLU	0.50	0.35	739.22	2.50	12369.40	28912.70	12369.40	0.40	0.45	897.00	2.50	15893.50	29719.90	15893.50	16.733
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	739.22	2.50	12369.40	29032.90	12369.40	0.40	0.45	897.00	2.50	15893.50	29843.50	15893.50	16.733
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	739.22	2.50	12369.40	29513.80	12369.40	0.40	0.45	897.00	2.50	15893.50	30337.80	15893.50	16.733
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	1324.75	2.50	9277.05	13672.40	9277.05	0.40	0.30	1252.23	2.50	7955.54	13399.80	7955.54	6.353
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	1324.75	2.50	9277.05	13743.70	9277.05	0.40	0.30	1252.23	2.50	7955.54	13469.60	7955.54	6.353
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	1324.75	2.50	9277.05	14028.70	9277.05	0.40	0.30	1252.23	2.50	7955.54	13748.90	7955.54	6.353
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	1342.18	2.50	9277.05	17905.20	9277.05	0.40	0.30	1317.51	2.50	7955.54	17548.10	7955.54	6.038
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	1342.18	2.50	9277.05	17976.40	9277.05	0.40	0.30	1317.51	2.50	7955.54	17617.90	7955.54	6.038
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	1342.18	2.50	9277.05	18261.40	9277.05	0.40	0.30	1317.51	2.50	7955.54	17897.20	7955.54	6.038
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	1366.35	2.50	9277.05	22181.80	9277.05	0.40	0.30	1354.49	2.50	7955.54	21739.50	7955.54	5.873
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	1366.35	2.50	9277.05	22253.10	9277.05	0.40	0.30	1354.49	2.50	7955.54	21809.30	7955.54	5.873
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	1366.35	2.50	9277.05	22538.10	9277.05	0.40	0.30	1354.49	2.50	7955.54	22088.60	7955.54	5.873
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	1570.58	2.50	9277.05	23011.20	9277.05	0.40	0.30	1405.60	2.50	7955.54	22552.30	7955.54	5.660
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	1570.58	2.50	9277.05	23011.20	9277.05	0.40	0.30	1405.60	2.50	7955.54	22552.30	7955.54	5.660
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	1570.58	2.50	9277.05	23011.20	9277.05	0.40	0.30	1405.60	2.50	7955.54	22552.30	7955.54	5.660
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	1059.81	2.50	6634.02	16455.30	6634.02	0.30	0.30	1289.08	2.50	7955.54	16914.20	7955.54	6.171
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	1059.81	2.50	6634.02	16455.30	6634.02	0.30	0.30	1289.08	2.50	7955.54	16914.20	7955.54	6.171
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	1059.81	2.50	6634.02	16455.30	6634.02	0.30	0.30	1289.08	2.50	7955.54	16914.20	7955.54	6.171
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	1301.09	2.50	6634.02	16455.30	6634.02	0.30	0.30	1315.81	2.50	7955.54	16914.20	7955.54	5.099
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	1301.09	2.50	6634.02	16455.30	6634.02	0.30	0.30	1315.81	2.50	7955.54	16914.20	7955.54	5.099
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	1301.09	2.50	6634.02	16455.30	6634.02	0.30	0.30	1315.81	2.50	7955.54	16914.20	7955.54	5.099
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	1200.39	2.50	6634.02	15806.10	6634.02	0.30	0.30	1483.39	2.50	7955.54	16246.90	7955.54	5.363
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	1200.39	2.50	6634.02	15785.70	6634.02	0.30	0.30	1483.39	2.50	7955.54	16225.90	7955.54	5.363
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	1200.39	2.50	6634.02	15704.20	6634.02	0.30	0.30	1483.39	2.50	7955.54	16142.10	7955.54	5.363
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	1714.10	2.50	6634.02	14204.40	6634.02	0.30	0.30	790.02	2.50	7955.54	14600.50	7955.54	3.870
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	1714.10	2.50	6634.02	14184.00	6634.02	0.30	0.30	790.02	2.50	7955.54	14579.60	7955.54	3.870
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	1714.10	2.50	6634.02	14102.50	6634.02	0.30	0.30	790.02	2.50	7955.54	14495.80	7955.54	3.870

Relazione di calcolo

Nodi: 36 336 536 736 936 1136 1336 1536 1736 1936

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	4.50	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 _r	Sic.
0.00	1(e)	SLU	1	1	0.00	-131045.00	248.60	2620.89	-133.01	-2620.89	-333837.00	13234.80	-13191.40	303.75	2.06	2.548
0.00	1(e)	SLU	1	1	0.00	-131045.00	248.60	2620.89	-133.01	-2620.89	-333837.00	13234.80	-13191.40	303.75	2.06	2.548
3.26	1(e)	SLU	1	1	326.00	-128926.00	-41.16	-2578.51	223.49	2578.51	-333837.00	-13226.00	13178.40	123.75	2.10	2.589
3.50	1(e)	SLU	2	10	0.00	-115345.00	-180.38	-2306.90	-164.23	-2306.90	-246925.00	-8201.49	-8267.98	217.97	1.47	2.141
3.50	1(e)	SLU	2	10	0.00	-115345.00	-180.38	-2306.90	-164.23	-2306.90	-235893.00	-7627.75	-7748.72	220.78	1.38	2.045
6.26	1(e)	SLU	2	10	276.00	-114089.00	108.82	2281.79	103.81	2281.79	-235893.00	7654.70	7769.45	40.78	1.41	2.068
6.50	1(e)	SLU	3	10	0.00	-100665.00	-1.71	-2013.30	-26.72	-2013.30	-235893.00	-7858.34	-7948.26	220.78	1.70	2.343
6.50	1(e)	SLU	3	10	0.00	-100665.00	-1.71	-2013.30	-26.72	-2013.30	-235893.00	-7858.34	-7948.26	220.78	1.70	2.343
9.26	1(e)	SLU	3	10	276.00	-99409.30	19.32	1988.19	11.52	1988.19	-235893.00	7872.30	7959.26	40.78	1.73	2.373
9.50	1(e)	SLU	4	10	0.00	-86110.20	-110.28	-1722.20	-0.95	-1722.20	-235893.00	-7851.85	-7873.90	220.78	2.09	2.739
9.50	1(e)	SLU	4	10	0.00	-86110.20	-110.28	-1722.20	-0.95	-1722.20	-235893.00	-7851.85	-7873.90	220.78	2.09	2.739
12.26	1(e)	SLU	4	10	276.00	-84854.40	75.97	1697.09	-29.61	-1697.09	-235893.00	7843.88	-7858.96	319.22	2.12	2.780
12.50	1(e)	SLU	5	10	0.00	-71708.10	-27.50	-1434.16	54.15	1434.16	-235893.00	-7717.87	7656.30	139.22	2.52	3.290
12.50	1(e)	SLU	5	10	0.00	-71708.10	-27.50	-1434.16	54.15	1434.16	-235893.00	-7717.87	7656.30	139.22	2.52	3.290
15.26	1(e)	SLU	5	10	276.00	-70452.30	61.20	1409.05	-61.87	-1409.05	-235893.00	7700.65	-7631.19	319.22	2.57	3.348
15.50	1(e)	SLU	6	7	0.00	-57104.10	-111.09	-1142.08	49.79	1142.08	-185194.00	-5408.46	5242.94	123.75	2.28	3.243
15.50	1(e)	SLU	6	7	0.00	-57104.10	-111.09	-1142.08	49.79	1142.08	-174161.00	-4920.52	4967.62	126.56	2.23	3.050
18.26	1(e)	SLU	6	7	276.00	-56162.30	111.28	1123.25	-51.67	-1123.25	-174161.00	4909.05	-4949.85	306.56	2.28	3.101
18.50	1(e)	SLU	7	7	0.00	-42606.70	-90.82	-852.13	64.66	852.13	-174161.00	-4687.32	4606.61	126.56	2.97	4.088
18.50	1(e)	SLU	7	7	0.00	-42606.70	-90.82	-852.13	64.66	852.13	-174161.00	-4687.32	4606.61	126.56	2.97	4.088
21.26	1(e)	SLU	7	7	276.00	-41664.80	82.09	833.30	-71.45	-833.30	-174161.00	4667.71	-4578.34	306.56	3.02	4.180
21.50	1(e)	SLU	8	7	0.00	-28238.50	-127.85	-564.77	105.70	564.77	-174161.00	-4150.05	4224.20	125.16	3.94	6.168
21.50	1(e)	SLU	8	7	0.00	-28238.50	-127.85	-564.77	105.70	564.77	-174161.00	-4150.05	4224.20	125.16	3.94	6.168
24.26	1(e)	SLU	8	7	276.00	-27296.60	156.95	545.93	-125.87	-545.93	-174161.00	4119.36	-4187.90	305.16	4.02	6.380
24.50	1(e)	SLU	9	7	0.00	-14036.60	-94.46	-280.73	102.56	280.73	-174161.00	-3592.04	3630.64	123.75	5.36	12.408
24.50	1(e)	SLU	9	7	0.00	-14036.60	-94.46	-280.73	102.56	280.73	-174161.00	-3592.04	3630.64	123.75	5.36	12.408
27.26	1(e)	SLU	9	7	276.00	-13094.70	134.95	261.89	-60.71	-261.89	-174161.00	3578.62	-3554.65	303.75	5.49	13.300

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 _c <daN/cmq>	σ _f <daN/cmq>
0.00	2	SLE R	1	1	0.00	-92458.60	-92.78	182.88	0.00	12.31	43.90	653.76
0.00	4	SLE Q	1	1	0.00	-81451.80	-85.22	152.58	0.00	12.31	38.66	575.65
0.00	2	SLE R	1	1	0.00	-92458.60	-92.78	182.88	0.00	12.31	43.90	653.76
0.00	4	SLE Q	1	1	0.00	-81451.80	-85.22	152.58	0.00	12.31	38.66	575.65
3.26	2	SLE R	1	1	326.00	-90828.60	155.46	-33.10	0.00	12.31	42.79	637.74
3.26	4	SLE Q	1	1	326.00	-79821.80	145.66	-20.11	0.00	12.31	37.61	560.58
3.50	2	SLE R	2	10	0.00	-81326.90	-111.40	-128.19	0.00	12.31	53.69	796.46
3.50	4	SLE Q	2	10	0.00	-71475.60	-121.28	-116.92	0.00	12.31	47.44	702.94
3.50	2	SLE R	2	10	0.00	-81326.90	-111.40	-128.19	0.00	9.24	55.28	820.18
3.50	4	SLE Q	2	10	0.00	-71475.60	-121.28	-116.92	0.00	9.24	48.85	723.91
6.26	2	SLE R	2	10	276.00	-80360.90	67.69	75.39	0.00	9.24	53.68	799.76
6.26	4	SLE Q	2	10	276.00	-70509.60	89.59	75.94	0.00	9.24	47.49	706.21
6.50	2	SLE R	3	10	0.00	-70971.00	-12.04	2.43	0.00	9.24	46.27	693.55
6.50	4	SLE Q	3	10	0.00	-62266.50	-53.40	-14.28	0.00	9.24	41.13	614.64
6.50	2	SLE R	3	10	0.00	-70971.00	-12.04	2.43	0.00	9.24	46.27	693.55
6.50	4	SLE Q	3	10	0.00	-62266.50	-53.40	-14.28	0.00	9.24	41.13	614.64
9.26	2	SLE R	3	10	276.00	-70005.00	0.77	10.64	0.00	9.24	45.62	683.84
9.26	4	SLE Q	3	10	276.00	-61300.50	47.22	22.66	0.00	9.24	40.53	605.52
9.50	2	SLE R	4	10	0.00	-60702.80	9.53	-76.54	0.00	9.24	40.35	601.80
9.50	4	SLE Q	4	10	0.00	-53130.80	-50.18	-78.85	0.00	9.24	35.85	532.75
9.50	2	SLE R	4	10	0.00	-60702.80	9.53	-76.54	0.00	9.24	40.35	601.80
9.50	4	SLE Q	4	10	0.00	-53130.80	-50.18	-78.85	0.00	9.24	35.85	532.75
12.26	2	SLE R	4	10	276.00	-59736.80	-31.36	52.27	0.00	9.24	39.68	591.97
12.26	4	SLE Q	4	10	276.00	-52164.80	33.01	56.70	0.00	9.24	34.82	518.85
12.50	2	SLE R	5	10	0.00	-50539.90	51.81	-16.64	0.00	9.24	33.52	500.42
12.50	4	SLE Q	5	10	0.00	-44084.60	-28.51	-26.72	0.00	9.24	29.21	436.07
12.50	2	SLE R	5	10	0.00	-50539.90	51.81	-16.64	0.00	9.24	33.52	500.42
12.50	4	SLE Q	5	10	0.00	-44084.60	-28.51	-26.72	0.00	9.24	29.21	436.07
15.26	2	SLE R	5	10	276.00	-49573.90	-58.02	40.38	0.00	9.24	33.20	494.45
15.26	4	SLE Q	5	10	276.00	-43118.60	28.39	49.28	0.00	9.24	28.82	429.27
15.50	2	SLE R	6	7	0.00	-40235.70	43.70	-75.89	0.00	9.24	35.61	526.75
15.50	4	SLE Q	6	7	0.00	-34913.90	-10.84	-79.76	0.00	9.24	30.63	454.39
15.50	2	SLE R	6	7	0.00	-40235.70	43.70	-75.89	0.00	6.16	37.04	547.99
15.50	4	SLE Q	6	7	0.00	-34913.90	-10.84	-79.76	0.00	6.16	31.89	472.94
18.26	2	SLE R	6	7	276.00	-39511.20	-46.27	75.41	0.00	6.16	36.45	538.85
18.26	4	SLE Q	6	7	276.00	-34189.40	15.19	80.33	0.00	6.16	31.33	464.28
18.50	2	SLE R	7	7	0.00	-30028.90	57.17	-61.09	0.00	6.16	28.13	414.00
18.50	4	SLE Q	7	7	0.00	-25861.80	-15.59	-69.31	0.00	6.16	23.89	353.27
18.50	2	SLE R	7	7	0.00	-30028.90	57.17	-61.09	0.00	6.16	28.13	414.00
18.50	4	SLE Q	7	7	0.00	-25861.80	-15.59	-69.31	0.00	6.16	23.89	353.27
21.26	2	SLE R	7	7	276.00	-29304.40	-61.83	55.63	0.00	6.16	27.49	404.44
21.26	4	SLE Q	7	7	276.00	-25137.30	9.75	62.56	0.00	6.16	23.06	341.66
21.50	2	SLE R	8	7	0.00	-19911.90	85.58	-86.87	0.00	6.16	20.12	290.22
21.50	4	SLE Q	8	7	0.00	-16885.30	6.46	-90.52	0.00	6.16	16.18	237.14

Relazione di calcolo

21.50	2	SLE R	8	7	0.00	-19911.90	85.58	-86.87	0.00	6.16	20.12	290.22
21.50	4	SLE Q	8	7	0.00	-16885.30	6.46	-90.52	0.00	6.16	16.18	237.14
24.26	2	SLE R	8	7	276.00	-19187.40	-99.63	106.71	0.00	6.16	20.00	286.31
24.26	4	SLE Q	8	7	276.00	-16160.80	-17.95	111.03	0.00	6.16	16.04	232.89
24.50	2	SLE R	9	7	0.00	-9911.17	83.43	-62.37	0.00	6.16	10.98	154.66
24.50	4	SLE Q	9	7	0.00	-7993.62	-1.69	-69.92	0.00	6.16	8.02	116.30
24.50	2	SLE R	9	7	0.00	-9911.17	83.43	-62.37	0.00	6.16	10.98	154.66
24.50	4	SLE Q	9	7	0.00	-7993.62	-1.69	-69.92	0.00	6.16	8.02	116.30
27.26	2	SLE R	9	7	276.00	-9186.67	-55.12	100.85	0.00	6.16	10.41	146.24
27.26	4	SLE Q	9	7	276.00	-7269.12	26.55	95.90	0.00	6.16	8.18	115.26

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	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	109.36	2.50	12369.40	21137.50	12369.40	0.40	0.45	88.88	2.50	15893.50	21727.60	15893.50	>100	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	109.36	2.50	12369.40	21257.70	12369.40	0.40	0.45	88.88	2.50	15893.50	21851.20	15893.50	>100	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	109.36	2.50	12369.40	21738.60	12369.40	0.40	0.45	88.88	2.50	15893.50	22345.50	15893.50	>100	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	97.11	2.07	7678.13	7678.13	7678.13	0.40	0.30	104.78	2.24	7141.02	7141.02	7141.02	68.152	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	97.11	2.08	7727.90	7727.90	7727.90	0.40	0.30	104.78	2.26	7185.99	7186.00	7185.99	68.581	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	97.11	2.14	7923.84	7923.84	7923.84	0.40	0.30	104.78	2.31	7363.16	7363.16	7363.16	70.272	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	13.86	2.50	9277.05	11755.10	9277.05	0.40	0.30	7.62	2.50	7955.54	11520.60	7955.54	>100	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	13.86	2.50	9277.05	11826.30	9277.05	0.40	0.30	7.62	2.50	7955.54	11590.50	7955.54	>100	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	13.86	2.50	9277.05	12111.30	9277.05	0.40	0.30	7.62	2.50	7955.54	11869.80	7955.54	>100	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	10.38	2.50	9277.05	16709.70	9277.05	0.40	0.30	67.48	2.50	7955.54	16376.40	7955.54	>100	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	10.38	2.50	9277.05	16780.90	9277.05	0.40	0.30	67.48	2.50	7955.54	16446.30	7955.54	>100	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	10.38	2.50	9277.05	17065.90	9277.05	0.40	0.30	67.48	2.50	7955.54	16725.60	7955.54	>100	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	42.04	2.50	9277.05	21612.30	9277.05	0.40	0.30	32.14	2.50	7955.54	21181.30	7955.54	>100	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	42.04	2.50	9277.05	21683.50	9277.05	0.40	0.30	32.14	2.50	7955.54	21251.10	7955.54	>100	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	42.04	2.50	9277.05	21968.50	9277.05	0.40	0.30	32.14	2.50	7955.54	21530.40	7955.54	>100	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	36.76	2.50	6634.02	14376.40	6634.02	0.30	0.30	80.57	2.50	7955.54	14777.30	7955.54	98.744	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	36.76	2.50	6634.02	14427.30	6634.02	0.30	0.30	80.57	2.50	7955.54	14829.70	7955.54	98.744	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	36.76	2.50	6634.02	14631.10	6634.02	0.30	0.30	80.57	2.50	7955.54	15039.20	7955.54	98.744	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	49.31	2.50	6634.02	16455.30	6634.02	0.30	0.30	62.65	2.50	7955.54	16914.20	7955.54	>100	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	49.31	2.50	6634.02	16455.30	6634.02	0.30	0.30	62.65	2.50	7955.54	16914.20	7955.54	>100	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	49.31	2.50	6634.02	16455.30	6634.02	0.30	0.30	62.65	2.50	7955.54	16914.20	7955.54	>100	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	83.90	2.50	6634.02	16455.30	6634.02	0.30	0.30	103.19	2.50	7955.54	16914.20	7955.54	77.099	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	83.90	2.50	6634.02	16455.30	6634.02	0.30	0.30	103.19	2.50	7955.54	16914.20	7955.54	77.099	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	83.90	2.50	6634.02	16455.30	6634.02	0.30	0.30	103.19	2.50	7955.54	16914.20	7955.54	77.099	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	59.15	2.50	6634.02	14986.60	6634.02	0.30	0.30	83.12	2.50	7955.54	15404.50	7955.54	95.710	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	59.15	2.50	6634.02	14966.20	6634.02	0.30	0.30	83.12	2.50	7955.54	15383.60	7955.54	95.709	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	59.15	2.50	6634.02	14884.70	6634.02	0.30	0.30	83.12	2.50	7955.54	15299.80	7955.54	95.709	

Pilastrata n. 37

Nodi: 37 -7172 237 -7167 337 437 537 637 737 837 937 1037 1137 1237 1337 1437 1537 1637 1737 1837 1937

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/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<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	EI	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	α	ε _r	Sic.
<cm>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<grad>		
0.00	1(e)	SLU	1	1	0.00	-61535.60	436.18	1230.71	141.12	1230.71	-333837.00	11610.70	11420.90	57.66	3.93	5.425
0.00	1(e)	SLU	1	1	0.00	-61535.60	436.18	1230.71	141.12	1230.71	-333837.00	11610.70	11420.90	57.66	3.93	5.425
1.00	1(e)	SLU	1	1	100.00	-60885.60	398.20	1217.71	-145.54	-1217.71	-333837.00	11579.70	-11382.00	302.34	3.95	5.483
1.00	1(e)	SLU	2	1	0.00	-66901.40	346.96	1338.03	-221.55	-1338.03	-333837.00	11853.60	-11735.40	302.34	3.71	4.990
1.35	1(e)	SLU	2	1	35.00	-66673.90	341.89	1333.48	-74.95	-1333.48	-333837.00	11844.20	-11722.40	302.34	3.72	5.007
2.00	1(e)	SLU	3	1	0.00	-72227.60	-1832.86	-1832.86	107.36	1444.55	-333837.00	-13713.20	10854.00	127.97	3.49	4.622
2.00	1(e)	SLU	3	1	0.00	-72227.60	-1832.86	-1832.86	107.36	1444.55	-333837.00	-13713.20	10854.00	127.97	3.49	4.622
2.75	1(e)	SLU	3	1	75.00	-71740.10	-95.42	-1434.80	-349.56	-1434.80	-333837.00	-12052.90	-12009.60	237.66	3.53	4.653
2.75	1(e)	SLU	4	1	0.00	-96078.00	159.71	1921.56	-819.47	-1921.56	-333837.00	12983.60	-12651.20	303.75	2.82	3.475
3.26	1(e)	SLU	4	1	51.00	-95746.50	-362.49	-1914.93	3366.41	3366.41	-333837.00	-8642.53	15332.80	112.50	2.97	3.487
3.50	1(e)	SLU	5	10	0.00	-123846.00	-1441.38	-2476.91	-388.29	-2476.91	-246925.00	-8004.97	-8102.51	217.97	1.29	1.994
3.50	1(e)	SLU	5	10	0.00	-123846.00	-1441.38	-2476.91	-388.29	-2476.91	-235893.00	-7416.06	-7572.25	220.78	1.20	1.905
4.35	1(e)	SLU	5	10	85.00	-123459.00	1326.09	2469.18	-814.46	-2469.18	-235893.00	7426.68	-7581.45	319.22	1.20	1.911
5.00	1(e)	SLU	6	10	0.00	-115645.00	-2072.73	-2312.91	-10.65	-2312.91	-235893.00	-7620.78	-7743.05	220.78	1.37	2.040
5.00	1(e)	SLU	6	10	0.00	-115645.00	-2072.73	-2312.91	-10.65	-2312.91	-235893.00	-7620.78	-7743.05	220.78	1.37	2.040
6.26	1(e)	SLU	6	10	126.00	-115072.00	7.96	2301.44	1841.56	2301.44	-235893.00	7633.62	7753.21	40.78	1.38	2.050
6.50	1(e)	SLU	7	10	0.00	-106162.00	-405.03	-2123.25	-1091.13	-2123.25	-235893.00	-7784.51	-7885.43	220.78	1.58	2.222
6.50	1(e)	SLU	7	10	0.00	-106162.00	-405.03	-2123.25	-1091.13	-2123.25	-235893.00	-7784.51	-7885.43	220.78	1.58	2.222
7.35	1(e)	SLU	7	10	85.00	-105776.00	1241.37	2115.51	-950.02	-2115.51	-235893.00	7789.95	-7890.10	319.22	1.59	2.230
8.00	1(e)	SLU	8	10	0.00	-99187.30	-1679.39	-1983.75	275.14	1983.75	-235893.00	-7874.47	7960.84	139.22	1.74	2.378
8.00	1(e)	SLU	8	10	0.00	-99187.30	-1679.39	-1983.75	275.14	1983.75	-235893.00	-7874.47	7960.84	139.22	1.74	2.378
9.26	1(e)	SLU	8	10	126.00	-98614.00	-111.14	-1972.28	1739.01	1972.28	-235893.00	-7875.20	7958.94	139.22	1.75	2.392
9.50	1(e)	SLU	9	10	0.00	-89692.80	-559.31	-1793.85	-1268.59	-1793.85	-235893.00	-7867.19	-7907.96	220.78	1.99	2.630
9.50	1(e)	SLU	9	10	0.00	-89692.80	-559.31	-1793.85	-1268.59	-1793.85	-235893.00	-7867.19	-7907.96	220.78	1.99	2.630
10.35	1(e)	SLU	9	10	85.00	-89306.00	1086.99	1786.12	-977.79	-1786.12	-235893.00	7866.08	-7904.92	319.22	2.00	2.641
11.00	1(e)	SLU	10	10	0.00	-83268.80	-1286.20	-1665.38	334.99	1665.38	-235893.00	-7833.63	7840.01	139.22	2.17	2.833
11.00	1(e)	SLU	10	10	0.00	-83268.80	-1286.20	-1665.38	334.99	1665.38	-235893.00	-7833.63	7840.01	139.22	2.17	2.833
12.26	1(e)	SLU	10	10	126.00	-82695.50	-405.75	-1653.91	1774.34	1774.34	-235893.00	-7563.53	8117.16	137.81	2.19	2.853
12.50	1(e)	SLU	11	10	0.00	-73734.90	-993.67	-1474.70	-1277.15	-1474.70	-235893.00	-7745.14	-7696.42	220.78	2.45	1.993
12.50	1(e)	SLU	11	10	0.00	-73734.90	-993.67	-1474.70	-1277.15	-1474.70	-235893.00	-7745.14	-7696.42	220.78	2.45	1.993
13.35	1(e)	SLU	11	10	85.00	-73348.10	1249.60	1466.96	-1040.66	-1466.96	-235893.00	7740.00	-7688.81	319.22	2.47	3.216
14.00	1(e)	SLU	12	10	0.00	-67273.50	-491.06	-1345.47	197.04	1345.47	-235893.00	-7655.98	7566.84	139.22	2.67	3.506
14.00	1(e)	SLU	12	10	0.00	-67273.50	-491.06	-1345.47	197.04	1345.47	-235893.00	-7655.98	7566.84	139.22	2.67	3.506
15.26	1(e)	SLU	12	10	126.00	-66700.20	-773.71	-1334.00	2172.16	2172.16	-235893.00	-5687.94	9392.85	127.97	2.77	3.537
15.50	1(e)	SLU	13	7	0.00	-57873.70	-1464.58	-1464.58	-453.35	-1157.47	-185194.00	-6093.28	-4811.34	232.03	2.24	2.300
15.50	1(e)	SLU	13	7	0.00	-57873.70	-1464.58	-1464.58	-453.35	-1157.47	-174161.00	-5675.53	-4346.46	227.81	2.20	3.009
16.35	1(e)	SLU	13	7	85.00	-57583.60	979.66	1151.67	-660.89	-1151.67	-174161.00	4925.73	-4975.09	306.56	2.21	3.025
17.00	1(e)	SLU	14	7	0.00	-51893.20	-107.93	-1037.86	113.09	1037.86	-174161.00	-4852.42	4859.17	126.56	2.47	3.356
17.00	1(e)	SLU	14	7	0.00	-51893.20	-107.93	-1037.86	113.09	1037.86	-174161.00	-4852.42	4859.17	126.56	2.47	3.356
18.26	1(e)	SLU	14	7	126.00	-51463.20	-835.41	-1029.26	1447.70	1447.70	-174161.00	-3882.80	5537.56	119.53	2.55	3.384
18.50	1(e)	SLU	15	7	0.00	-42783.90	-1582.34	-1582.34	-960.78	-960.78	-42783.90	-5929.18	-3543.11	222.19	3.00	3.773

Relazione di calcolo

18.50	1	SLU	15	7	0.00	-42783.90	-1582.34	-1582.34	-960.78	-960.78	-42783.90	-5929.18	-3543.11	222.19	3.00	3.731
19.35	1(e)	SLU	15	7	85.00	-42493.90	959.39	959.39	-792.49	-849.88	-174161.00	5008.96	-4340.25	309.38	2.96	4.099
20.00	1(e)	SLU	16	7	0.00	-37108.30	316.08	742.17	208.36	742.17	-174161.00	4556.23	4430.61	53.44	3.30	4.693
20.00	1(e)	SLU	16	7	0.00	-37108.30	316.08	742.17	208.36	742.17	-174161.00	4556.23	4430.61	53.44	3.30	4.693
21.26	1	SLU	16	7	126.00	-36678.30	-1015.58	-1015.58	1466.81	1466.81	-36678.30	-3520.65	5163.98	118.12	3.43	3.503
21.50	1	SLU	17	7	0.00	-27985.40	-1787.49	-1787.49	-1006.34	-1006.34	-27985.40	-5437.63	-3120.73	220.78	4.02	3.056
21.50	1	SLU	17	7	0.00	-27985.40	-1787.49	-1787.49	-1006.34	-1006.34	-27985.40	-5437.63	-3120.73	220.78	4.02	3.056
22.35	1	SLU	17	7	85.00	-27695.30	893.33	893.33	-807.69	-807.69	-27695.30	4406.89	-3986.58	307.97	3.97	4.934
23.00	1(e)	SLU	18	7	0.00	-22517.40	563.10	563.10	194.22	450.35	-174161.00	4461.24	3587.68	49.22	4.40	7.735
23.00	1(e)	SLU	18	7	0.00	-22517.40	563.10	563.10	194.22	450.35	-174161.00	4461.24	3587.68	49.22	4.40	7.735
24.26	1	SLU	18	7	126.00	-22087.40	-1183.44	-1183.44	1534.80	1534.80	-22087.40	-3394.38	4396.21	119.53	4.55	2.866
24.50	1	SLU	19	7	0.00	-13365.20	-2021.58	-2021.58	-961.76	-961.76	-13365.20	-4633.19	-2262.83	208.12	6.62	2.303
24.50	1	SLU	19	7	0.00	-13365.20	-2021.58	-2021.58	-961.76	-961.76	-13365.20	-4633.19	-2262.83	208.12	6.62	2.303
25.35	1	SLU	19	7	85.00	-13075.10	926.58	926.58	-921.82	-921.82	-13075.10	3578.42	-3553.00	303.75	5.49	3.858
26.00	1(e)	SLU	20	7	0.00	-7543.60	457.93	457.93	-22.22	150.87	-7543.60	4142.14	1436.46	14.06	10.42	9.093
26.00	1(e)	SLU	20	7	0.00	-7543.60	457.93	457.93	-22.22	150.87	-7543.60	4142.14	1436.46	14.06	10.42	9.093
27.26	1(e)	SLU	20	7	126.00	-7113.63	24.87	142.27	2218.51	2218.51	-7113.63	166.06	3493.55	89.12	14.77	1.573

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 _c <daN/cmq>	σ _t <daN/cmq>
0.00	2	SLE R	1	1	0.00	-43792.00	100.14	330.67	0.00	12.31	22.46	329.72
0.00	4	SLE Q	1	1	0.00	-37530.70	87.05	332.23	0.00	12.31	19.51	285.83
0.00	2	SLE R	1	1	0.00	-43792.00	100.14	330.67	0.00	12.31	22.46	329.72
0.00	4	SLE Q	1	1	0.00	-37530.70	87.05	332.23	0.00	12.31	19.51	285.83
1.00	2	SLE R	1	1	100.00	-43292.00	-103.56	288.88	0.00	12.31	22.03	323.86
1.00	4	SLE Q	1	1	100.00	-37030.70	-88.22	236.21	0.00	12.31	18.78	276.29
1.00	2	SLE R	2	1	0.00	-47566.80	-157.93	246.57	0.00	12.31	24.13	354.67
1.00	4	SLE Q	2	1	0.00	-40674.40	-135.59	179.29	0.00	12.31	20.47	301.29
1.35	2	SLE R	2	1	35.00	-47391.80	-53.49	237.23	0.00	12.31	23.30	344.81
1.35	4	SLE Q	2	1	35.00	-40499.40	-42.88	145.85	0.00	12.31	19.59	290.78
2.00	2	SLE R	3	1	0.00	-51278.00	76.42	-1338.70	0.00	12.31	31.04	444.32
2.00	4	SLE Q	3	1	0.00	-43789.60	60.67	-1109.50	0.00	12.31	26.30	376.91
2.00	2	SLE R	3	1	0.00	-51278.00	76.42	-1338.70	0.00	12.31	31.04	444.32
2.00	4	SLE Q	3	1	0.00	-43789.60	60.67	-1109.50	0.00	12.31	26.30	376.91
2.75	2	SLE R	3	1	75.00	-50903.00	-243.96	-62.93	0.00	12.31	25.26	372.37
2.75	4	SLE Q	3	1	75.00	-43414.60	-215.34	-32.98	0.00	12.31	21.48	316.81
2.75	2	SLE R	4	1	0.00	-68158.00	-576.93	125.11	0.00	12.31	35.71	520.53
2.75	4	SLE Q	4	1	0.00	-58124.50	-500.49	128.84	0.00	12.31	30.63	445.99
3.26	2	SLE R	4	1	51.00	-67903.00	2364.37	-243.87	0.00	12.31	48.15	664.29
3.26	4	SLE Q	4	1	51.00	-57869.50	2044.02	-127.09	0.00	12.31	40.81	563.16
3.50	2	SLE R	5	10	0.00	-87891.70	-275.56	-1020.80	0.00	12.31	68.74	979.93
3.50	4	SLE Q	5	10	0.00	-74700.30	-256.50	-744.51	0.00	12.31	57.32	820.86
3.50	2	SLE R	5	10	0.00	-87891.70	-275.56	-1020.80	0.00	9.24	70.53	1006.43
3.50	4	SLE Q	5	10	0.00	-74700.30	-256.50	-744.51	0.00	9.24	58.86	843.50
4.35	2	SLE R	5	10	85.00	-87594.20	-570.63	940.57	0.00	9.24	72.32	1026.85
4.35	4	SLE Q	5	10	85.00	-74402.80	-479.91	683.35	0.00	9.24	60.17	858.21
5.00	2	SLE R	6	10	0.00	-82043.90	-4.52	-1477.95	0.00	9.24	68.95	972.69
5.00	4	SLE Q	6	10	0.00	-70063.30	-19.37	-1103.43	0.00	9.24	57.36	813.87
5.00	2	SLE R	6	10	0.00	-82043.90	-4.52	-1477.95	0.00	9.24	68.95	972.69
5.00	4	SLE Q	6	10	0.00	-70063.30	-19.37	-1103.43	0.00	9.24	57.36	813.87
6.26	2	SLE R	6	10	126.00	-81602.90	1287.38	11.23	0.00	9.24	65.50	939.48
6.26	4	SLE Q	6	10	126.00	-69622.30	1108.82	47.77	0.00	9.24	56.39	807.16
6.50	2	SLE R	7	10	0.00	-75355.60	-760.38	-290.52	0.00	9.24	59.33	852.76
6.50	4	SLE Q	7	10	0.00	-64002.20	-669.20	-208.54	0.00	9.24	50.22	722.42
6.50	2	SLE R	7	10	0.00	-75355.60	-760.38	-290.52	0.00	9.24	59.33	852.76
6.50	4	SLE Q	7	10	0.00	-64002.20	-669.20	-208.54	0.00	9.24	50.22	722.42
7.35	2	SLE R	7	10	85.00	-75058.10	-665.78	884.87	0.00	9.24	64.50	908.68
7.35	4	SLE Q	7	10	85.00	-63704.70	-560.31	616.95	0.00	9.24	53.28	755.07
8.00	2	SLE R	8	10	0.00	-70360.60	190.05	-1201.66	0.00	9.24	60.22	847.12
8.00	4	SLE Q	8	10	0.00	-60089.40	146.63	-848.38	0.00	9.24	49.41	700.99
8.00	2	SLE R	8	10	0.00	-70360.60	190.05	-1201.66	0.00	9.24	60.22	847.12
8.00	4	SLE Q	8	10	0.00	-60089.40	146.63	-848.38	0.00	9.24	49.41	700.99
9.26	2	SLE R	8	10	126.00	-69919.60	1213.57	-74.39	0.00	9.24	57.87	824.76
9.26	4	SLE Q	8	10	126.00	-59648.40	1054.91	-26.17	0.00	9.24	49.16	701.43
9.50	2	SLE R	9	10	0.00	-63667.00	-885.08	-401.18	0.00	9.24	54.10	765.52
9.50	4	SLE Q	9	10	0.00	-54013.60	-778.82	-305.61	0.00	9.24	45.80	648.49
9.50	2	SLE R	9	10	0.00	-63667.00	-885.08	-401.18	0.00	9.24	54.10	765.52
9.50	4	SLE Q	9	10	0.00	-54013.60	-778.82	-305.61	0.00	9.24	45.80	648.49
10.35	2	SLE R	9	10	85.00	-63369.50	-680.91	776.59	0.00	9.24	55.91	783.77
10.35	4	SLE Q	9	10	85.00	-53716.10	-579.58	522.21	0.00	9.24	45.98	648.78
11.00	2	SLE R	10	10	0.00	-59048.50	240.45	-935.96	0.00	9.24	50.55	711.44
11.00	4	SLE Q	10	10	0.00	-50438.70	179.30	-606.12	0.00	9.24	40.89	582.27
11.00	2	SLE R	10	10	0.00	-59048.50	240.45	-935.96	0.00	9.24	50.55	711.44
11.00	4	SLE Q	10	10	0.00	-50438.70	179.30	-606.12	0.00	9.24	40.89	582.27
12.26	2	SLE R	10	10	126.00	-58607.50	1233.88	-269.93	0.00	9.24	52.77	739.52
12.26	4	SLE Q	10	10	126.00	-49997.70	1083.69	-223.28	0.00	9.24	45.24	633.50
12.50	2	SLE R	11	10	0.00	-52329.30	-889.92	-689.80	0.00	9.24	49.82	689.17
12.50	4	SLE Q	11	10	0.00	-44332.80	-785.14	-595.67	0.00	9.24	42.62	588.62
12.50	2	SLE R	11	10	0.00	-52329.30	-889.92	-689.80	0.00	9.24	49.82	689.17
12.50	4	SLE Q	11	10	0.00	-44332.80	-785.14	-595.67	0.00	9.24	42.62	588.62
13.35	2	SLE R	11	10	85.00	-52031.80	-727.27	885.71	0.00	9.24	50.13	691.09
13.35	4	SLE Q	11	10	85.00	-44035.30	-617.75	639.70	0.00	9.24	41.29	572.32
14.00	2	SLE R	12	10	0.00	-47697.20	139.19	-389.45	0.00	9.24	36.44	525.84
14.00	4	SLE Q	12	10	0.00	-40696.80	95.53	-94.78	0.00	9.24	28.37	418.40

Relazione di calcolo

14.00	2	SLE R	12	10	0.00	-47697.20	139.19	-389.45	0.00	9.24	36.44	525.84
14.00	4	SLE Q	12	10	0.00	-40696.80	95.53	-94.78	0.00	9.24	28.37	418.40
15.26	2	SLE R	12	10	126.00	-47256.20	1512.36	-523.86	0.00	9.24	50.74	689.30
15.26	4	SLE Q	12	10	126.00	-40255.80	1321.80	-452.83	0.00	9.24	43.61	591.66
15.50	2	SLE R	13	7	0.00	-41071.70	-313.97	-1016.30	0.00	9.24	53.52	724.53
15.50	4	SLE Q	13	7	0.00	-34676.90	-286.63	-885.46	0.00	9.24	45.92	619.58
15.50	2	SLE R	13	7	0.00	-41071.70	-313.97	-1016.30	0.00	6.16	55.77	754.95
15.50	4	SLE Q	13	7	0.00	-34676.90	-286.63	-885.46	0.00	6.16	47.84	645.52
16.35	2	SLE R	13	7	85.00	-40848.60	-461.36	697.27	0.00	6.16	53.51	727.56
16.35	4	SLE Q	13	7	85.00	-34453.80	-389.02	482.74	0.00	6.16	43.63	597.01
17.00	2	SLE R	14	7	0.00	-36788.30	81.19	-118.89	0.00	6.16	35.27	516.10
17.00	4	SLE Q	14	7	0.00	-31347.20	45.38	110.06	0.00	6.16	29.78	436.96
17.00	2	SLE R	14	7	0.00	-36788.30	81.19	-118.89	0.00	6.16	35.27	516.10
17.00	4	SLE Q	14	7	0.00	-31347.20	45.38	110.06	0.00	6.16	29.78	436.96
18.26	2	SLE R	14	7	126.00	-36457.60	1006.76	-566.55	0.00	6.16	57.02	745.15
18.26	4	SLE Q	14	7	126.00	-31016.50	884.85	-495.83	0.00	6.16	49.19	641.10
18.50	2	SLE R	15	7	0.00	-30378.10	-667.45	-1098.12	0.00	6.16	53.55	689.60
18.50	4	SLE Q	15	7	0.00	-25533.90	-593.17	-958.35	0.00	6.16	46.07	590.89
18.50	2	SLE R	15	7	0.00	-30378.10	-667.45	-1098.12	0.00	6.16	53.55	689.60
18.50	4	SLE Q	15	7	0.00	-25533.90	-593.17	-958.35	0.00	6.16	46.07	590.89
19.35	2	SLE R	15	7	85.00	-30154.90	-552.90	683.24	0.00	6.16	45.50	601.02
19.35	4	SLE Q	15	7	85.00	-25310.80	-468.32	469.60	0.00	6.16	36.78	488.82
20.00	2	SLE R	16	7	0.00	-26307.80	147.39	177.55	0.00	6.16	28.06	399.38
20.00	4	SLE Q	16	7	0.00	-22388.30	102.83	364.78	0.00	6.16	26.55	369.64
20.00	2	SLE R	16	7	0.00	-26307.80	147.39	177.55	0.00	6.16	28.06	399.38
20.00	4	SLE Q	16	7	0.00	-22388.30	102.83	364.78	0.00	6.16	26.55	369.64
21.26	2	SLE R	16	7	126.00	-25977.00	1019.46	-692.40	0.00	6.16	49.95	630.47
21.26	4	SLE Q	16	7	126.00	-22057.50	897.81	-603.50	0.00	6.16	43.22	543.92
21.50	2	SLE R	17	7	0.00	-19889.10	-699.29	-1241.50	1.54	4.62	48.71	596.69
21.50	4	SLE Q	17	7	0.00	-16564.80	-620.60	-1080.69	1.54	4.62	42.38	515.65
21.50	2	SLE R	17	7	0.00	-19889.10	-699.29	-1241.50	1.54	4.62	48.71	596.69
21.50	4	SLE Q	17	7	0.00	-16564.80	-620.60	-1080.69	1.54	4.62	42.38	515.65
22.35	2	SLE R	17	7	85.00	-19666.00	-563.29	637.06	0.00	6.16	35.84	457.89
22.35	4	SLE Q	17	7	85.00	-16341.60	-477.52	430.52	0.00	6.16	28.52	366.50
23.00	2	SLE R	18	7	0.00	-15965.90	136.86	352.77	0.00	6.16	21.33	289.40
23.00	4	SLE Q	18	7	0.00	-13546.30	94.56	518.46	0.00	6.16	20.86	276.35
23.00	2	SLE R	18	7	0.00	-15965.90	136.86	352.77	0.00	6.16	21.33	289.40
23.00	4	SLE Q	18	7	0.00	-13546.30	94.56	518.46	0.00	6.16	20.86	276.35
24.26	2	SLE R	18	7	126.00	-15635.10	1066.63	-810.93	1.54	4.62	48.01	563.84
24.26	4	SLE Q	18	7	126.00	-13215.60	934.15	-706.33	1.54	4.62	42.04	490.94
24.50	2	SLE R	19	7	0.00	-9527.46	-669.97	-1406.83	3.08	3.08	57.41	692.85
24.50	4	SLE Q	19	7	0.00	-7708.06	-601.45	-1226.10	3.08	3.08	51.69	681.24
24.50	2	SLE R	19	7	0.00	-9527.46	-669.97	-1406.83	3.08	3.08	57.41	692.85
24.50	4	SLE Q	19	7	0.00	-7708.06	-601.45	-1226.10	3.08	3.08	51.69	681.24
25.35	2	SLE R	19	7	85.00	-9304.34	-642.67	661.30	1.54	4.62	33.18	382.26
25.35	4	SLE Q	19	7	85.00	-7484.93	-534.74	450.21	1.54	4.62	25.19	292.00
26.00	2	SLE R	20	7	0.00	-5363.89	-9.95	297.93	0.00	6.16	9.12	119.22
26.00	4	SLE Q	20	7	0.00	-4479.27	-4.07	461.97	3.08	3.08	11.48	139.66
26.00	2	SLE R	20	7	0.00	-5363.89	-9.95	297.93	0.00	6.16	9.12	119.22
26.00	4	SLE Q	20	7	0.00	-4479.27	-4.07	461.97	3.08	3.08	11.48	139.66
27.26	2	SLE R	20	7	126.00	-5033.14	1538.68	34.72	3.08	3.08	52.52	1399.18
27.26	4	SLE Q	20	7	126.00	-4148.52	1265.76	35.32	3.08	3.08	43.45	1152.56

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 ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.50	4	SLE Q	19	7	0.00	-7708.06	-1226.10	-601.45	39.00	208.00	0.50	14.00	145.46	1.54	74.18	681.24	0.20	0.05
24.50	3	SLE F	19	7	0.00	-8200.03	-1277.33	-621.19	39.00	208.00	0.50	14.00	144.28	1.54	72.88	686.73	0.20	0.05
24.50	4	SLE Q	19	7	0.00	-7708.06	-1226.10	-601.45	39.00	208.00	0.50	14.00	145.46	1.54	74.18	681.24	0.20	0.05
24.50	3	SLE F	19	7	0.00	-8200.03	-1277.33	-621.19	39.00	208.00	0.50	14.00	144.28	1.54	72.88	686.73	0.20	0.05
27.26	4	SLE Q	20	7	126.00	-4148.52	35.32	1265.76	39.00	258.00	0.50	14.00	186.08	3.08	237.68	1152.56	0.34	0.11
27.26	3	SLE F	20	7	126.00	-4373.79	34.84	1333.96	39.00	258.00	0.50	14.00	186.26	3.08	238.08	1213.43	0.35	0.11

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _y <m>	d _y <m>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <m>	d _z <m>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	1.35	ø8/20	2	21	SLU	0.50	0.35	418.85	2.50	12369.40	32873.20	12369.40	0.40	0.45	37.98	2.50	15893.50	33791.00	15893.50	29.532	
2.00	3.26	ø8/20	2	21	SLU	0.50	0.35	8207.61	2.50	12369.40	32873.20	12369.40	0.40	0.45	2316.58	2.50	15893.50	33791.00	15893.50	1.507	
3.50	4.35	ø6/15	2	21	SLU	0.35	0.35	501.38	1.42	5273.88	5273.88	5273.88	0.40	0.30	3255.85	1.57	4982.24	4982.24	4982.24	1.530	
5.00	5.45	ø6/15	2	21	SLU	0.35	0.35	1470.00	2.05	7606.17	7606.17	7606.17	0.40	0.30	1651.34	2.22	7076.00	7076.00	7076.00	4.285	
5.45	5.81	ø6/15	2	21	SLU	0.35	0.35	1470.00	2.06	7655.32	7655.32	7655.32	0.40	0.30	1651.34	2.24	7120.41	7120.41	7120.41	4.312	
5.81	6.26	ø6/15	2	21	SLU	0.35	0.35	1470.00	2.07	7694.41	7694.41	7694.41	0.40	0.30	1651.34	2.25	7155.73	7155.73	7155.73	4.333	
6.50	7.35	ø6/15	2	21	SLU	0.35	0.35	166.01	2.50	9277.05	9883.70	9277.05	0.40	0.30	1936.94	2.50	7955.54	9686.59	7955.54	4.107	
8.00	8.45	ø6/15	2	21	SLU	0.35	0.35	1161.80	2.50	9277.05	12258.10	9277.05	0.40	0.30	1244.64	2.50	7955.54	12013.60	7955.54	6.392	
8.45	8.81	ø6/15	2	21	SLU	0.35	0.35	1161.80	2.50	9277.05	12327.80	9277.05	0.40	0.30	1244.64	2.50	7955.54	12082.00	7955.54	6.392	
8.81	9.26	ø6/15	2	21	SLU	0.35	0.35	1161.80	2.50	9277.05	12383.60	9277.05	0.40	0.30	1244.64	2.50	7955.54	12136.60	7955.54	6.392	
9.50	10.35	ø6/15	2	21	SLU	0.35	0.35	342.12	2.50	9277.05	15490.20	9277.05	0.40	0.30	1936.82	2.50	7955.54	15181.20	7955.54	4.108	
11.00	11.45	ø6/15	2	21	SLU	0.35	0.35	1142.34	2.50	9277.05	17676.90	9277.05	0.40	0.30	698.77	2.50	7955.54	17324.40	7955.54	8.121	
11.45	11.81	ø6/15	2	21	SLU	0.35	0.35	1142.34	2.50	9277.05	17746.60	9277.05	0.40	0.30	698.77	2.50	7955.54	17392.70	7955.54	8.121	
11.81	12.26	ø6/15	2	21	SLU	0.35	0.35	1142.34	2.50	9277.05	17802.40	9277.05	0.40	0.30	698.77	2.50	7955.54	17447.30	7955.54	8.121	
12.50	13.35	ø6/15	2	21	SLU	0.35	0.35	278.22	2.50	9277.05	20922.40	9277.05	0.40	0.30	2639.15	2.50	7955.54	20505.10	7955.54	3.014	
14.00	14.45	ø6/15	2	21	SLU	0.35	0.35	1567.56	2.50	9277.05	23011.20	9277.05	0.40	0.30	224.32	2.50	7955.54	22552.30	7955.54	5.918	
14.45	14.81	ø6/15	2	21	SLU	0.35	0.35	1567.56	2.50	9277.05	23011.20	9277.05	0.40	0.30	224.33	2.50	7955.54	22552.30	7955.54	5.918	
14.81	15.26	ø6/15	2	21	SLU	0.35	0.35	1567.56	2.50	9277.05	23011.20	9277.05	0.40	0.30	224.33	2.50	7955.54	22552.30	7955.54	5.918	
15.50	16.35	ø6/15	2	21	SLU	0.35	0.25	244.17	2.50	6634.02	14126.60	6634.02	0.30	0.30	2875.58	2.50	7955.54	14520.60	7955.54	2.767	
17.00	17.45	ø6/15	2	21	SLU	0.35	0.25	1059.21	2.50	6634.02	16067.70	6634.02	0.30	0.30	577.37	2.50	7955.54	16515.80	7955.54	6.263	

Relazione di calcolo

17.45	17.81	ø6/15	2	21	SLU	0.35	0.25	1059.21	2.50	6634.02	16117.50	6634.02	0.30	0.30	577.37	2.50	7955.54	16567.00	7955.54	6.263
17.81	18.26	ø6/15	2	21	SLU	0.35	0.25	1059.21	2.50	6634.02	16157.40	6634.02	0.30	0.30	577.37	2.50	7955.54	16608.00	7955.54	6.263
18.50	19.35	ø6/15	2	21	SLU	0.35	0.25	197.99	2.50	6634.02	16455.30	6634.02	0.30	0.30	2990.27	2.50	7955.54	16914.20	7955.54	2.660
20.00	20.45	ø6/15	2	21	SLU	0.35	0.25	998.77	2.50	6634.02	16455.30	6634.02	0.30	0.30	1056.87	2.50	7955.54	16914.20	7955.54	6.642
20.45	20.81	ø6/15	2	21	SLU	0.35	0.25	998.77	2.50	6634.02	16455.30	6634.02	0.30	0.30	1056.87	2.50	7955.54	16914.20	7955.54	6.642
20.81	21.26	ø6/15	2	21	SLU	0.35	0.25	998.77	2.50	6634.02	16455.30	6634.02	0.30	0.30	1056.87	2.50	7955.54	16914.20	7955.54	6.642
21.50	22.35	ø6/15	2	21	SLU	0.35	0.25	233.70	2.50	6634.02	16455.30	6634.02	0.30	0.30	3153.90	2.50	7955.54	16914.20	7955.54	2.522
23.00	23.45	ø6/15	2	21	SLU	0.35	0.25	1063.96	2.50	6634.02	16087.60	6634.02	0.30	0.30	1386.14	2.50	7955.54	16536.30	7955.54	5.739
23.45	23.81	ø6/15	2	21	SLU	0.35	0.25	1063.96	2.50	6634.02	16067.70	6634.02	0.30	0.30	1386.14	2.50	7955.54	16515.80	7955.54	5.739
23.81	24.26	ø6/15	2	21	SLU	0.35	0.25	1063.96	2.50	6634.02	16051.70	6634.02	0.30	0.30	1386.14	2.50	7955.54	16499.40	7955.54	5.739
24.50	25.35	ø6/15	2	21	SLU	0.35	0.25	46.99	2.50	6634.02	14899.40	6634.02	0.30	0.30	3468.42	2.50	7955.54	15314.90	7955.54	2.294
26.00	26.45	ø6/15	2	21	SLU	0.35	0.25	1778.36	2.50	6634.02	14143.60	6634.02	0.30	0.30	343.69	2.50	7955.54	14538.10	7955.54	3.730
26.45	26.81	ø6/15	2	21	SLU	0.35	0.25	1778.36	2.50	6634.02	14123.70	6634.02	0.30	0.30	343.69	2.50	7955.54	14517.60	7955.54	3.730
26.81	27.26	ø6/15	2	21	SLU	0.35	0.25	1778.36	2.50	6634.02	14107.70	6634.02	0.30	0.30	343.69	2.50	7955.54	14501.20	7955.54	3.730

Pilastrata n. 38

Nodi: 38 -7168 238 -7163 338 438 538 638 738 838 938 1038 1138 1238 1338 1438 1538 1638 1738 1838 1938

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 _r	Sic.	
0.00	1	(e)	SLU	1	1	0.00	-65421.00	-218.16	-1308.42	-149.66	-1308.42	-333837.00	-11792.40	-11650.90	237.66	3.77	5.103
0.00	1	(e)	SLU	1	1	0.00	-65421.00	-218.16	-1308.42	-149.66	-1308.42	-333837.00	-11792.40	-11650.90	237.66	3.77	5.103
1.00	1	(e)	SLU	1	1	100.00	-64771.00	586.60	1295.42	109.50	1295.42	-333837.00	11764.00	11613.20	57.66	3.79	5.154
1.00	1	(e)	SLU	2	1	0.00	-71332.10	846.07	1426.64	216.38	1426.64	-333837.00	12036.10	11986.60	57.66	3.55	4.680
1.35	1	(e)	SLU	2	1	35.00	-71104.60	1307.14	1422.09	22.26	1422.09	-333837.00	12026.80	11973.80	57.66	3.56	4.695
2.00	1	(e)	SLU	3	1	0.00	-73113.40	-3608.92	-3608.92	-115.57	-1462.27	-333837.00	-17557.40	-7365.36	216.56	3.68	4.566
2.00	1	(e)	SLU	3	1	0.00	-73113.40	-3608.92	-3608.92	-115.57	-1462.27	-333837.00	-17557.40	-7365.36	216.56	3.68	4.566
2.75	1	(e)	SLU	3	1	75.00	-72625.90	-162.45	-1452.52	444.35	1452.52	-333837.00	-12087.20	12058.60	122.34	3.50	4.597
2.75	1	(e)	SLU	4	1	0.00	-98078.60	348.94	1961.57	968.94	1961.57	-333837.00	13006.40	12702.80	56.25	2.77	3.404
3.26	1	(e)	SLU	4	1	51.00	-97747.10	-622.39	-1954.94	-3320.08	-3320.08	-333837.00	-9206.93	-15119.60	246.09	2.89	3.415
3.50	1	(e)	SLU	5	10	0.00	-127634.00	-1865.59	-2552.68	589.83	2552.68	-246925.00	-7903.82	8007.53	142.03	1.21	1.935
3.50	1	(e)	SLU	5	10	0.00	-127634.00	-1865.59	-2552.68	589.83	2552.68	-235893.00	-7310.72	7481.00	139.22	1.12	1.848
4.35	1	(e)	SLU	5	10	85.00	-127247.00	1709.45	2544.94	762.71	2544.94	-235893.00	7321.60	7490.41	40.78	1.12	1.854
5.00	1	(e)	SLU	6	10	0.00	-117910.00	-2513.78	-2513.78	-92.86	-2358.20	-235893.00	-7794.15	-7433.77	219.38	1.32	2.001
5.00	1	(e)	SLU	6	10	0.00	-117910.00	-2513.78	-2513.78	-92.86	-2358.20	-235893.00	-7794.15	-7433.77	219.38	1.32	2.001
6.26	1	(e)	SLU	6	10	126.00	-117337.00	-177.71	-2346.74	-1815.90	-2346.74	-235893.00	-7580.37	-7709.75	220.78	1.33	2.010
6.50	1	(e)	SLU	7	10	0.00	-108551.00	-407.27	-2171.02	1172.84	2171.02	-235893.00	-7750.23	7855.86	139.22	1.53	2.173
6.50	1	(e)	SLU	7	10	0.00	-108551.00	-407.27	-2171.02	1172.84	2171.02	-235893.00	-7750.23	7855.86	139.22	1.53	2.173
7.35	1	(e)	SLU	7	10	85.00	-108164.00	1599.65	2163.28	980.89	2163.28	-235893.00	7755.95	7860.84	40.78	1.53	2.181
8.00	1	(e)	SLU	8	10	0.00	-100407.00	-2164.53	-2164.53	-110.46	-2008.13	-235893.00	-8120.30	-7668.72	219.38	1.71	2.349
8.00	1	(e)	SLU	8	10	0.00	-100407.00	-2164.53	-2164.53	-110.46	-2008.13	-235893.00	-8120.30	-7668.72	219.38	1.71	2.349
9.26	1	(e)	SLU	8	10	126.00	-99833.40	-168.14	-1996.67	-1925.34	-1996.67	-235893.00	-7867.59	-7955.54	220.78	1.72	2.363
9.50	1	(e)	SLU	9	10	0.00	-91045.20	-427.35	-1820.90	1101.36	1820.90	-235893.00	-7870.94	7918.52	139.22	1.95	2.591
9.50	1	(e)	SLU	9	10	0.00	-91045.20	-427.35	-1820.90	1101.36	1820.90	-235893.00	-7870.94	7918.52	139.22	1.95	2.591
10.35	1	(e)	SLU	9	10	85.00	-90658.40	1282.25	1813.17	981.45	1813.17	-235893.00	7869.89	7915.52	40.78	1.96	2.602
11.00	1	(e)	SLU	10	10	0.00	-83755.70	-1958.29	-1958.29	-72.80	-1675.11	-235893.00	-8368.01	-7275.18	217.97	2.16	2.816
11.00	1	(e)	SLU	10	10	0.00	-83755.70	-1958.29	-1958.29	-72.80	-1675.11	-235893.00	-8368.01	-7275.18	217.97	2.16	2.816
12.26	1	(e)	SLU	10	10	126.00	-83182.40	242.94	1663.65	-1893.66	-1893.66	-235893.00	7298.19	-8398.38	316.41	2.18	2.836
12.50	1	(e)	SLU	11	10	0.00	-74393.60	144.22	1487.87	1213.58	1487.87	-235893.00	7752.30	7707.45	40.78	2.44	3.171
12.50	1	(e)	SLU	11	10	0.00	-74393.60	144.22	1487.87	1213.58	1487.87	-235893.00	7752.30	7707.45	40.78	2.44	3.171
13.35	1	(e)	SLU	11	10	85.00	-74006.80	950.55	1480.14	972.49	1480.14	-235893.00	7748.20	7701.10	40.78	2.45	3.187
14.00	1	(e)	SLU	12	10	0.00	-67314.10	-2505.27	-2505.27	-134.67	-1346.28	-235893.00	-9768.28	-5127.63	208.12	2.75	3.504
14.00	1	(e)	SLU	12	10	0.00	-67314.10	-2505.27	-2505.27	-134.67	-1346.28	-235893.00	-9768.28	-5127.63	208.12	2.75	3.504
15.26	1	(e)	SLU	12	10	126.00	-66740.80	611.00	1334.82	-2197.51	-2197.51	-235893.00	5688.10	-9394.26	307.97	2.77	3.534
15.50	1	(e)	SLU	13	7	0.00	-58042.80	612.99	1160.86	481.98	1160.86	-185194.00	5410.58	5258.23	56.25	2.25	3.191
15.50	1	(e)	SLU	13	7	0.00	-58042.80	612.99	1160.86	481.98	1160.86	-174161.00	4930.69	4982.24	53.44	2.20	3.001
16.35	1	(e)	SLU	13	7	85.00	-57752.80	677.66	1155.06	651.98	1155.06	-174161.00	4927.55	4977.74	53.44	2.21	3.016
17.00	1	(e)	SLU	14	7	0.00	-51745.50	-2406.41	-2406.41	-1.49	-1034.91	-51745.50	-6811.75	-3064.91	216.56	2.58	2.851
17.00	1	(e)	SLU	14	7	0.00	-51745.50	-2406.41	-2406.41	-1.49	-1034.91	-51745.50	-6811.75	-3064.91	216.56	2.58	2.851
18.26	1	(e)	SLU	14	7	126.00	-51315.50	958.02	1026.31	-1532.21	-1532.21	-174161.00	3683.83	-5671.15	298.12	2.58	3.394
18.50	1		SLU	15	7	0.00	-42749.50	1046.40	1046.40	954.15	954.15	-174161.00	4856.00	4479.61	52.03	2.95	4.074
18.50	1		SLU	15	7	0.00	-42749.50	1046.40	1046.40	954.15	954.15	-174161.00	4856.00	4479.61	52.03	2.95	4.074
19.35	1	(e)	SLU	15	7	85.00	-42459.50	455.64	849.19	778.41	849.19	-174161.00	4684.24	4602.19	53.44	2.97	4.102
20.00	1	(e)	SLU	16	7	0.00	-36976.50	-2513.53	-2513.53	-93.37	-739.53	-36976.50	-6965.65	-2103.22	208.12	3.69	2.777
20.00	1	(e)	SLU	16	7	0.00	-36976.50	-2513.53	-2513.53	-93.37	-739.53	-36976.50	-6965.65	-2103.22	208.12	3.69	2.777
21.26	1		SLU	16	7	126.00	-36546.50	1201.72	1201.72	-1552.57	-1552.57	-36546.50	3880.98	-4902.88	300.94	3.39	3.185
21.50	1		SLU	17	7	0.00	-27952.50	1365.92	1365.92	982.15	982.15	-27952.50	4933.89	3565.14	46.41	3.96	3.618
21.50	1		SLU	17	7	0.00	-27952.50	1365.92	1365.92	982.15	982.15	-27952.50	4933.89	3565.14	46.41	3.96	3.618
22.35	1	(e)	SLU	17	7	85.00	-27662.50	289.50	553.25	795.92	795.92	-27662.50	3359.61	4783.21	61.88	4.10	6.030
23.00	1	(e)	SLU	18	7	0.00	-22576.10	-2585.28	-2585.28	-79.20	-451.52	-22576.10	-6055.74	-1062.32	191.25	7.56	2.343
23.00	1	(e)	SLU	18	7	0.00	-22576.10	-2585.28	-2585.28	-79.20	-451.52	-22576.10	-6055.74	-1062.32	191.25	7.56	2.343
24.26	1		SLU	18	7	126.00	-22146.20	1380.78	1380.78	-1604.94	-1604.94	-22146.20	3676.38	-4199.15	302.34	4.48	2.636
24.50	1		SLU	19	7	0.00	-13541.10	1579.87	1579.87	935.91	935.91	-13541.10	4459.73	2662.51	36.56	5.90	2.829
24.50	1		SLU	19	7	0.00	-13541.10	1579.87	1579.87	935.91	935.91	-13541.10	4459.73	2662.51	36.56	5.90	2.829
25.35	1		SLU	19	7	85.00	-13251.10	428.14	428.14	887.24	887.24	-13251.10	1462.14	4042.93	77.34	7.86	4.562
26.00	1		SLU	20	7	0.00	-7654.85	-2445.15	-2445.15	178.26	178.26	-7654.85	-4255.64	354.88	177.19	15.57	1.742
26.00	1		SLU	20	7	0.00	-7654.85	-2445.15	-2445.15	178.26	178.26	-7654.85	-4255.64	354.88	177.19	15.57	1.742
27.26	1		SLU	20	7	126.00	-7224.87	407.89	407.89	-2309.21	-2309.21	-7224.87	604.82	-3529.33	272.81	13.63	1.527

Relazione di calcolo

1.00	2	SLE R	2	1	0.00	-50720.90	153.89	597.61	0.00	12.31	27.39	398.66
1.00	4	SLE Q	2	1	0.00	-43162.90	132.76	449.88	0.00	12.31	23.01	335.61
1.35	2	SLE R	2	1	35.00	-50545.90	16.36	915.87	0.00	12.31	28.07	407.39
1.35	4	SLE Q	2	1	35.00	-42987.90	13.62	670.69	0.00	12.31	23.30	339.47
2.00	2	SLE R	3	1	0.00	-51924.70	-81.38	-2591.27	0.00	12.31	37.97	529.95
2.00	4	SLE Q	3	1	0.00	-44359.90	-66.47	-2059.71	0.00	12.31	31.60	442.57
2.00	2	SLE R	3	1	0.00	-51924.70	-81.38	-2591.27	0.00	12.31	37.97	529.95
2.00	4	SLE Q	3	1	0.00	-44359.90	-66.47	-2059.71	0.00	12.31	31.60	442.57
2.75	2	SLE R	3	1	75.00	-51549.70	311.05	-108.33	0.00	12.31	26.24	384.91
2.75	4	SLE Q	3	1	75.00	-43984.90	267.43	-69.38	0.00	12.31	22.28	327.09
2.75	2	SLE R	4	1	0.00	-69607.50	683.20	260.15	0.00	12.31	37.79	547.39
2.75	4	SLE Q	4	1	0.00	-59344.40	583.68	227.57	0.00	12.31	32.26	467.15
3.26	2	SLE R	4	1	51.00	-69352.50	-2333.31	-429.89	0.00	12.31	49.59	683.85
3.26	4	SLE Q	4	1	51.00	-59089.40	-2019.96	-289.85	0.00	12.31	42.06	580.18
3.50	2	SLE R	5	10	0.00	-90623.50	415.24	-1325.04	0.00	12.31	74.94	1055.96
3.50	4	SLE Q	5	10	0.00	-76956.50	369.13	-999.51	0.00	12.31	62.46	883.79
3.50	2	SLE R	5	10	0.00	-90623.50	415.24	-1325.04	0.00	9.24	76.86	1084.00
3.50	4	SLE Q	5	10	0.00	-76956.50	369.13	-999.51	0.00	9.24	64.10	907.70
4.35	2	SLE R	5	10	85.00	-90326.00	534.14	1216.57	0.00	9.24	76.66	1081.63
4.35	4	SLE Q	5	10	85.00	-76659.00	450.38	916.57	0.00	9.24	63.81	904.13
5.00	2	SLE R	6	10	0.00	-83673.40	-65.21	-1797.23	0.00	9.24	73.96	1032.53
5.00	4	SLE Q	6	10	0.00	-71377.80	-34.99	-1375.06	0.00	9.24	61.23	860.09
5.00	2	SLE R	6	10	0.00	-83673.40	-65.21	-1797.23	0.00	9.24	73.96	1032.53
5.00	4	SLE Q	6	10	0.00	-71377.80	-34.99	-1375.06	0.00	9.24	61.23	860.09
6.26	2	SLE R	6	10	126.00	-83232.40	-1267.32	-121.59	0.00	9.24	67.53	966.01
6.26	4	SLE Q	6	10	126.00	-70936.80	-1096.36	-63.11	0.00	9.24	57.28	820.38
6.50	2	SLE R	7	10	0.00	-77074.60	821.79	-293.54	0.00	9.24	61.07	876.68
6.50	4	SLE Q	7	10	0.00	-65391.80	708.86	-208.24	0.00	9.24	51.50	740.32
6.50	2	SLE R	7	10	0.00	-77074.60	821.79	-293.54	0.00	9.24	61.07	876.68
6.50	4	SLE Q	7	10	0.00	-65391.80	708.86	-208.24	0.00	9.24	51.50	740.32
7.35	2	SLE R	7	10	85.00	-76777.10	683.47	1143.12	0.00	9.24	68.51	957.51
7.35	4	SLE Q	7	10	85.00	-65094.30	578.91	834.37	0.00	9.24	56.66	796.03
8.00	2	SLE R	8	10	0.00	-71238.70	-82.28	-1547.67	0.00	9.24	63.41	884.09
8.00	4	SLE Q	8	10	0.00	-60759.10	-42.51	-1144.19	0.00	9.24	51.96	730.48
8.00	2	SLE R	8	10	0.00	-71238.70	-82.28	-1547.67	0.00	9.24	63.41	884.09
8.00	4	SLE Q	8	10	0.00	-60759.10	-42.51	-1144.19	0.00	9.24	51.96	730.48
9.26	2	SLE R	8	10	126.00	-70797.70	-1341.55	-117.53	0.00	9.24	60.12	852.52
9.26	4	SLE Q	8	10	126.00	-60318.10	-1166.73	-60.07	0.00	9.24	51.03	724.29
9.50	2	SLE R	9	10	0.00	-64641.10	767.43	-311.44	0.00	9.24	52.66	751.52
9.50	4	SLE Q	9	10	0.00	-54765.70	670.18	-224.78	0.00	9.24	44.39	634.37
9.50	2	SLE R	9	10	0.00	-64641.10	767.43	-311.44	0.00	9.24	52.66	751.52
9.50	4	SLE Q	9	10	0.00	-54765.70	670.18	-224.78	0.00	9.24	44.39	634.37
10.35	2	SLE R	9	10	85.00	-64343.60	686.63	920.83	0.00	9.24	58.11	810.72
10.35	4	SLE Q	9	10	85.00	-54468.20	580.00	641.01	0.00	9.24	47.72	670.01
11.00	2	SLE R	10	10	0.00	-59393.20	-47.67	-1407.81	0.00	9.24	53.90	748.46
11.00	4	SLE Q	10	10	0.00	-50641.40	-22.26	-1024.63	0.00	9.24	43.93	615.65
11.00	2	SLE R	10	10	0.00	-59393.20	-47.67	-1407.81	0.00	9.24	53.90	748.46
11.00	4	SLE Q	10	10	0.00	-50641.40	-22.26	-1024.63	0.00	9.24	43.93	615.65
12.26	2	SLE R	10	10	126.00	-58952.20	-1320.37	163.87	0.00	9.24	52.71	740.09
12.26	4	SLE Q	10	10	126.00	-50200.40	-1148.50	188.44	0.00	9.24	45.63	638.60
12.50	2	SLE R	11	10	0.00	-52797.50	843.51	78.85	0.00	9.24	43.24	617.36
12.50	4	SLE Q	11	10	0.00	-44642.20	744.48	121.00	0.00	9.24	37.43	531.80
12.50	2	SLE R	11	10	0.00	-52797.50	843.51	78.85	0.00	9.24	43.24	617.36
12.50	4	SLE Q	11	10	0.00	-44642.20	744.48	121.00	0.00	9.24	37.43	531.80
13.35	2	SLE R	11	10	85.00	-52500.00	677.01	694.10	0.00	9.24	47.93	667.75
13.35	4	SLE Q	11	10	85.00	-44344.70	575.74	442.59	0.00	9.24	39.01	547.70
14.00	2	SLE R	12	10	0.00	-47722.20	-95.70	-1760.29	0.00	9.24	50.50	681.09
14.00	4	SLE Q	12	10	0.00	-40660.40	-62.39	-1340.99	0.00	9.24	41.17	559.67
14.00	2	SLE R	12	10	0.00	-47722.20	-95.70	-1760.29	0.00	9.24	50.50	681.09
14.00	4	SLE Q	12	10	0.00	-40660.40	-62.39	-1340.99	0.00	9.24	41.17	559.67
15.26	2	SLE R	12	10	126.00	-47281.20	-1529.35	411.75	0.00	9.24	49.74	678.35
15.26	4	SLE Q	12	10	126.00	-40219.40	-1330.37	408.83	0.00	9.24	43.21	587.13
15.50	2	SLE R	13	7	0.00	-41190.60	335.25	393.86	0.00	9.24	45.62	637.30
15.50	4	SLE Q	13	7	0.00	-34717.30	302.00	400.16	0.00	9.24	39.69	550.69
15.50	2	SLE R	13	7	0.00	-41190.60	335.25	393.86	0.00	6.16	47.35	661.98
15.50	4	SLE Q	13	7	0.00	-34717.30	302.00	400.16	0.00	6.16	41.21	572.13
16.35	2	SLE R	13	7	85.00	-40967.40	454.59	495.28	0.00	6.16	50.62	696.04
16.35	4	SLE Q	13	7	85.00	-34494.20	383.12	293.93	0.00	6.16	40.87	566.69
17.00	2	SLE R	14	7	0.00	-36675.00	-2.53	-1692.44	0.00	6.16	56.31	749.22
17.00	4	SLE Q	14	7	0.00	-31215.40	16.48	-1295.43	0.00	6.16	46.10	617.30
17.00	2	SLE R	14	7	0.00	-36675.00	-2.53	-1692.44	0.00	6.16	56.31	749.22
17.00	4	SLE Q	14	7	0.00	-31215.40	16.48	-1295.43	0.00	6.16	46.10	617.30
18.26	2	SLE R	14	7	126.00	-36344.20	-1065.85	658.71	0.00	6.16	59.24	768.60
18.26	4	SLE Q	14	7	126.00	-30884.70	-929.79	604.47	0.00	6.16	51.38	664.43
18.50	2	SLE R	15	7	0.00	-30347.80	663.21	701.67	0.00	6.16	47.80	625.86
18.50	4	SLE Q	15	7	0.00	-25467.10	586.90	651.99	0.00	6.16	41.52	540.51
18.50	2	SLE R	15	7	0.00	-30347.80	663.21	701.67	0.00	6.16	47.80	625.86
18.50	4	SLE Q	15	7	0.00	-25467.10	586.90	651.99	0.00	6.16	41.52	540.51
19.35	2	SLE R	15	7	85.00	-30124.70	542.26	339.25	0.00	6.16	40.38	544.45
19.35	4	SLE Q	15	7	85.00	-25244.00	459.82	158.28	0.00	6.16	32.13	437.30
20.00	2	SLE R	16	7	0.00	-26202.80	-66.98	-1768.25	0.00	6.16	49.48	636.53

Relazione di calcolo

20.00	4	SLE Q	16	7	0.00	-22277.80	-38.64	-1360.39	0.00	6.16	39.58	514.12
20.00	2	SLE R	16	7	0.00	-26202.80	-66.98	-1768.25	0.00	6.16	49.48	636.53
20.00	4	SLE Q	16	7	0.00	-22277.80	-38.64	-1360.39	0.00	6.16	39.58	514.12
21.26	2	SLE R	16	7	126.00	-25872.10	-1079.09	832.26	0.00	6.16	53.12	664.17
21.26	4	SLE Q	16	7	126.00	-21947.10	-942.03	753.26	1.54	4.62	46.34	577.01
21.50	2	SLE R	17	7	0.00	-19857.30	681.50	929.61	1.54	4.62	42.67	532.08
21.50	4	SLE Q	17	7	0.00	-16512.30	605.55	847.44	1.54	4.62	37.56	464.41
21.50	2	SLE R	17	7	0.00	-19857.30	681.50	929.61	1.54	4.62	42.67	532.08
21.50	4	SLE Q	17	7	0.00	-16512.30	605.55	847.44	1.54	4.62	37.56	464.41
22.35	2	SLE R	17	7	85.00	-19634.20	554.18	219.17	0.00	6.16	29.68	389.84
22.35	4	SLE Q	17	7	85.00	-16289.20	470.10	55.12	0.00	6.16	22.99	305.23
23.00	2	SLE R	18	7	0.00	-15999.10	-57.77	-1821.63	3.08	3.08	46.34	550.15
23.00	4	SLE Q	18	7	0.00	-13572.50	-31.67	-1407.83	3.08	3.08	35.42	429.68
23.00	2	SLE R	18	7	0.00	-15999.10	-57.77	-1821.63	3.08	3.08	46.34	550.15
23.00	4	SLE Q	18	7	0.00	-13572.50	-31.67	-1407.83	3.08	3.08	35.42	429.68
24.26	2	SLE R	18	7	126.00	-15668.40	-1115.00	972.85	1.54	4.62	53.34	617.55
24.26	4	SLE Q	18	7	126.00	-13241.70	-973.78	886.62	1.54	4.62	47.73	548.00
24.50	2	SLE R	19	7	0.00	-9647.85	646.22	1101.48	3.08	3.08	45.99	508.58
24.50	4	SLE Q	19	7	0.00	-7799.47	576.39	1014.92	3.08	3.08	43.27	467.22
24.50	2	SLE R	19	7	0.00	-9647.85	646.22	1101.48	3.08	3.08	45.99	508.58
24.50	4	SLE Q	19	7	0.00	-7799.47	576.39	1014.92	3.08	3.08	43.27	467.22
25.35	2	SLE R	19	7	85.00	-9424.72	618.10	307.23	1.54	4.62	24.40	293.03
25.35	4	SLE Q	19	7	85.00	-7576.34	523.54	118.16	1.54	4.62	17.87	216.39
26.00	2	SLE R	20	7	0.00	-5434.07	118.74	-1730.98	3.08	3.08	52.00	1265.11
26.00	4	SLE Q	20	7	0.00	-4532.66	84.56	-1325.57	3.08	3.08	39.36	912.68
26.00	2	SLE R	20	7	0.00	-5434.07	118.74	-1730.98	3.08	3.08	52.00	1265.11
26.00	4	SLE Q	20	7	0.00	-4532.66	84.56	-1325.57	3.08	3.08	39.36	912.68
27.26	2	SLE R	20	7	126.00	-5103.32	-1598.15	296.77	3.08	3.08	64.04	1586.22
27.26	4	SLE Q	20	7	126.00	-4201.91	-1311.23	263.55	3.08	3.08	53.25	1308.52

Stato limite d'esercizio - Verifiche a fessurazione

Xg <cm>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A ₂ <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.50	4	SLE Q	19	7	0.00	-7799.47	1014.92	576.39	39.00	208.00	0.50	14.00	133.07	1.54	60.56	467.22	0.14	0.03
24.50	3	SLE F	19	7	0.00	-8296.96	1041.87	596.21	39.00	208.00	0.50	14.00	130.93	1.54	58.20	455.79	0.13	0.03
24.50	4	SLE Q	19	7	0.00	-7799.47	1014.92	576.39	39.00	208.00	0.50	14.00	133.07	1.54	60.56	467.22	0.14	0.03
24.50	3	SLE F	19	7	0.00	-8296.96	1041.87	596.21	39.00	208.00	0.50	14.00	130.93	1.54	58.20	455.79	0.13	0.03
26.00	4	SLE Q	20	7	0.00	-4532.66	-1325.57	84.56	39.00	208.00	0.50	14.00	174.25	3.08	211.67	912.68	0.27	0.08
26.00	3	SLE F	20	7	0.00	-4762.33	-1442.28	90.98	39.00	208.00	0.50	14.00	175.17	3.08	213.69	1016.63	0.30	0.09
26.00	4	SLE Q	20	7	0.00	-4532.66	-1325.57	84.56	39.00	208.00	0.50	14.00	174.25	3.08	211.67	912.68	0.27	0.08
26.00	3	SLE F	20	7	0.00	-4762.33	-1442.28	90.98	39.00	208.00	0.50	14.00	175.17	3.08	213.69	1016.63	0.30	0.09
27.26	4	SLE Q	20	7	126.00	-4201.91	263.55	-1311.23	39.00	258.00	0.50	14.00	258.90	1.54	198.91	1308.52	0.38	0.17
27.26	3	SLE F	20	7	126.00	-4431.58	273.24	-1383.30	39.00	258.00	0.50	14.00	259.62	1.54	199.71	1378.39	0.40	0.18

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw _y	d _{r,y}	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _{r,z}	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	Sic.
<cm>	<cm>						<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	1.35	ø8/20	2	21	SLU	0.50	0.35	554.63	2.50	12369.40	32873.20	12369.40	0.40	0.45	1317.35	2.50	15893.50	33791.00	15893.50	12.065	
2.00	3.26	ø8/20	2	21	SLU	0.50	0.35	8409.85	2.50	12369.40	32472.30	12369.40	0.40	0.45	4595.30	2.50	15893.50	33378.90	15893.50	1.471	
3.50	4.35	ø6/15	2	21	SLU	0.35	0.35	203.39	1.01	3733.14	3733.14	3733.14	0.40	0.30	4205.93	1.14	3627.59	3627.59	3627.59	0.862	
5.00	5.45	ø6/15	2	21	SLU	0.35	0.35	1367.50	1.90	7039.69	7039.69	7039.69	0.40	0.30	1854.02	2.06	6564.83	6564.83	6564.83	3.541	
5.45	5.81	ø6/15	2	21	SLU	0.35	0.35	1367.50	1.91	7092.76	7092.76	7092.76	0.40	0.30	1854.02	2.08	6612.66	6612.66	6612.66	3.567	
5.81	6.26	ø6/15	2	21	SLU	0.35	0.35	1367.50	1.92	7134.94	7134.94	7134.94	0.40	0.30	1854.02	2.09	6650.68	6650.68	6650.68	3.587	
6.50	7.35	ø6/15	2	21	SLU	0.35	0.35	225.82	2.47	9156.55	9156.55	9156.55	0.40	0.30	2361.07	2.50	7955.54	8889.74	7955.54	3.369	
8.00	8.45	ø6/15	2	21	SLU	0.35	0.35	1440.38	2.50	9277.05	11843.00	9277.05	0.40	0.30	1584.44	2.50	7955.54	11606.80	7955.54	5.021	
8.45	8.81	ø6/15	2	21	SLU	0.35	0.35	1440.38	2.50	9277.05	11912.70	9277.05	0.40	0.30	1584.44	2.50	7955.54	11675.10	7955.54	5.021	
8.81	9.26	ø6/15	2	21	SLU	0.35	0.35	1440.38	2.50	9277.05	11968.50	9277.05	0.40	0.30	1584.44	2.50	7955.54	11729.80	7955.54	5.021	
9.50	10.35	ø6/15	2	21	SLU	0.35	0.35	141.07	2.50	9277.05	15029.80	9277.05	0.40	0.30	2011.29	2.50	7955.54	14730.00	7955.54	3.955	
11.00	11.45	ø6/15	2	21	SLU	0.35	0.35	1445.12	2.50	9277.05	17511.20	9277.05	0.40	0.30	1747.00	2.50	7955.54	17162.00	7955.54	4.554	
11.45	11.81	ø6/15	2	21	SLU	0.35	0.35	1445.12	2.50	9277.05	17580.90	9277.05	0.40	0.30	1747.01	2.50	7955.54	17230.30	7955.54	4.554	
11.81	12.26	ø6/15	2	21	SLU	0.35	0.35	1445.12	2.50	9277.05	17636.70	9277.05	0.40	0.30	1747.01	2.50	7955.54	17284.90	7955.54	4.554	
12.50	13.35	ø6/15	2	21	SLU	0.35	0.35	283.64	2.50	9277.05	20698.10	9277.05	0.40	0.30	948.63	2.50	7955.54	20285.30	7955.54	8.386	
14.00	14.45	ø6/15	2	21	SLU	0.35	0.35	1637.18	2.50	9277.05	23011.20	9277.05	0.40	0.30	2473.23	2.50	7955.54	22552.30	7955.54	3.217	
14.45	14.81	ø6/15	2	21	SLU	0.35	0.35	1637.18	2.50	9277.05	23011.20	9277.05	0.40	0.30	2473.23	2.50	7955.54	22552.30	7955.54	3.217	
14.81	15.26	ø6/15	2	21	SLU	0.35	0.35	1637.18	2.50	9277.05	23011.20	9277.05	0.40	0.30	2473.23	2.50	7955.54	22552.30	7955.54	3.217	
15.50	16.35	ø6/15	2	21	SLU	0.35	0.25	200.00	2.50	6634.02	14071.70	6634.02	0.30	0.30	76.09	2.50	7955.54	14464.20	7955.54	33.169	
17.00	17.45	ø6/15	2	21	SLU	0.35	0.25	1214.86	2.50	6634.02	16115.60	6634.02	0.30	0.30	2670.18	2.50	7955.54	16565.10	7955.54	2.979	
17.45	17.81	ø6/15	2	21	SLU	0.35	0.25	1214.86	2.50	6634.02	16165.50	6634.02	0.30	0.30	2670.18	2.50	7955.54	16616.30	7955.54	2.979	
17.81	18.26	ø6/15	2	21	SLU	0.35	0.25	1214.86	2.50	6634.02	16205.30	6634.02	0.30	0.30	2670.18	2.50	7955.54	16657.30	7955.54	2.979	
18.50	19.35	ø6/15	2	21	SLU	0.35	0.25	206.75	2.50	6634.02	16455.30	6634.02	0.30	0.30	695.02	2.50	7955.54	16914.20	7955.54	11.447	
20.00	20.45	ø6/15	2	21	SLU	0.35	0.25	1158.09	2.50	6634.02	16455.30	6634.02	0.30	0.30	2948.61	2.50	7955.54	16914.20	7955.54	2.698	
20.45	20.81	ø6/15	2	21	SLU	0.35	0.25	1158.09	2.50	6634.02	16455.30	6634.02	0.30	0.30	2948.61	2.50	7955.54	16914.20	7955.54	2.698	
20.81	21.26	ø6/15	2	21	SLU	0.35	0.25	1158.09	2.50	6634.02	16455.30	6634.02	0.30	0.30	2948.61	2.50	7955.54	16914.20	7955.54	2.698	
21.50	22.35	ø6/15	2	21	SLU	0.35	0.25	219.10	2.50	6634.02	16455.30	6634.02	0.30	0.30	1266.38	2.50	7955.54	16914.20	7955.54	6.282	
23.00	23.45	ø6/15	2	21	SLU	0.35	0.25	1210.91	2.50	6634.02	16095.30	6634.02	0.30	0.30	3147.67	2.50	7955.54	16544.10	7955.54	2.527	
23.45	23.81	ø6/15	2	21	SLU	0.35	0.25	1210.91	2.50	6634.02	16075.30	6634.02	0.30	0.30	3147.67	2.50	7955.54	16523.60	7955.54	2.527	
23.81	24.26	ø6/15	2	21	SLU	0.35	0.25	1210.91	2.50	6634.02	16059.40	6634.02	0.30	0.30	3147.67	2.50	7955.54	16507.20	7955.54	2.527	
24.50	25.35	ø6/15	2	21	SLU	0.35	0.25	57.26	2.50	6634.02	14922.30	6634.02	0.30	0.30	1354.97	2.50	7955.54	15338.40	7955.54	5.871	
26.00	26.45	ø6/15	2	21	SLU	0.35	0.25	1974.18	2.50	6634.02	14158.10	6634.02	0.30	0.30	2264.32	2.50	7955.54	14552.90	7955.54	3.360	
26.45	26.81	ø6/15	2	21	SLU	0.35	0.25	1974.18	2.50	6634.02	14138.10	6634.02	0.30	0.30	2264.32	2.50	7955.54	14532.40	7955.54	3.360	
26.81	27.26	ø6/15	2	21	SLU	0.35	0.25	1974.18	2.50	6634.02	14122.20	6634.02	0.30	0.30	2264.32	2.50	7955.54	14516.00	7955.54	3.360	

Relazione di calcolo

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 _r	Sic.
0.00	1(e)	SLU	1	1	0.00	-131630.00	265.02	2632.59	41.65	2632.59	-333837.00	13237.20	13195.00	56.25	2.05	2.536
0.00	1(e)	SLU	1	1	0.00	-131630.00	265.02	2632.59	41.65	2632.59	-333837.00	13237.20	13195.00	56.25	2.05	2.536
3.26	1(e)	SLU	1	1	326.00	-129511.00	-115.88	-2590.21	-101.06	-2590.21	-333837.00	-13228.50	-13182.10	236.25	2.09	2.578
3.50	1(e)	SLU	2	10	0.00	-116152.00	-109.71	-2323.05	135.58	2323.05	-246925.00	-8184.71	8254.75	142.03	1.45	2.126
3.50	1(e)	SLU	2	10	0.00	-116152.00	-109.71	-2323.05	135.58	2323.05	-235893.00	-7608.71	7733.11	139.22	1.36	2.031
6.26	1(e)	SLU	2	10	276.00	-114897.00	8.04	2297.93	-98.38	-2297.93	-235893.00	7637.39	-7756.12	319.22	1.39	2.053
6.50	1(e)	SLU	3	10	0.00	-101467.00	121.97	2029.35	107.34	2029.35	-235893.00	7849.02	7940.79	40.78	1.69	2.325
6.50	1(e)	SLU	3	10	0.00	-101467.00	121.97	2029.35	107.34	2029.35	-235893.00	7849.02	7940.79	40.78	1.69	2.325
9.26	1(e)	SLU	3	10	276.00	-100212.00	-79.51	-2004.23	-115.91	-2004.23	-235893.00	-7863.38	-7952.23	220.78	1.72	2.354
9.50	1(e)	SLU	4	10	0.00	-86794.90	-4.57	-1735.90	125.81	1735.90	-235893.00	-7856.04	7881.91	139.22	2.07	2.718
9.50	1(e)	SLU	4	10	0.00	-86794.90	-4.57	-1735.90	125.81	1735.90	-235893.00	-7856.04	7881.91	139.22	2.07	2.718
12.26	1(e)	SLU	4	10	276.00	-85539.10	0.22	1710.78	-141.64	-1710.78	-235893.00	7848.25	-7867.12	319.22	2.10	2.758
12.50	1(e)	SLU	5	10	0.00	-72152.40	49.99	1443.05	141.39	1443.05	-235893.00	7723.93	7665.17	40.78	2.51	3.269
12.50	1(e)	SLU	5	10	0.00	-72152.40	49.99	1443.05	141.39	1443.05	-235893.00	7723.93	7665.17	40.78	2.51	3.269
15.26	1(e)	SLU	5	10	276.00	-70896.60	-48.12	-1417.93	-120.25	-1417.93	-235893.00	-7706.80	-7640.14	220.78	2.55	3.327
15.50	1(e)	SLU	6	7	0.00	-57387.60	17.27	1147.75	63.16	1147.75	-185194.00	5409.14	5247.58	56.25	2.27	2.227
15.50	1(e)	SLU	6	7	0.00	-57387.60	17.27	1147.75	63.16	1147.75	-174161.00	4923.60	4972.04	53.44	2.22	3.035
18.26	1(e)	SLU	6	7	276.00	-56445.70	-18.93	-1128.91	-59.21	-1128.91	-174161.00	-4912.73	-4955.77	233.44	2.26	3.085
18.50	1(e)	SLU	7	7	0.00	-42859.10	42.03	857.18	69.62	857.18	-174161.00	4692.58	4614.20	53.44	2.95	4.064
18.50	1(e)	SLU	7	7	0.00	-42859.10	42.03	857.18	69.62	857.18	-174161.00	4692.58	4614.20	53.44	2.95	4.064
21.26	1(e)	SLU	7	7	276.00	-41917.30	-44.04	-838.35	-74.37	-838.35	-174161.00	-4672.96	-4585.90	233.44	3.00	4.155
21.50	1(e)	SLU	8	7	0.00	-28353.40	4.98	567.07	98.57	567.07	-174161.00	4153.77	4228.60	54.84	3.93	6.143
21.50	1(e)	SLU	8	7	0.00	-28353.40	4.98	567.07	98.57	567.07	-174161.00	4153.77	4228.60	54.84	3.93	6.143
24.26	1(e)	SLU	8	7	276.00	-27411.60	37.39	548.23	-107.04	-548.23	-174161.00	4123.12	-4192.35	305.16	4.01	6.354
24.50	1(e)	SLU	9	7	0.00	-13841.10	121.61	276.82	96.27	276.82	-174161.00	3588.81	3615.25	56.25	5.38	12.583
24.50	1(e)	SLU	9	7	0.00	-13841.10	121.61	276.82	96.27	276.82	-174161.00	3588.81	3615.25	56.25	5.38	12.583
27.26	1(e)	SLU	9	7	276.00	-12899.20	-138.38	-257.98	-68.98	-257.98	-174161.00	-3576.58	-3538.21	236.25	5.52	13.502

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 _c <daN/cmq>	σ _f <daN/cmq>
0.00	2	SLE R	1	1	0.00	-92844.30	27.48	193.77	0.00	12.31	43.70	652.08
0.00	4	SLE Q	1	1	0.00	-81310.40	26.26	162.72	0.00	12.31	38.25	570.79
0.00	2	SLE R	1	1	0.00	-92844.30	27.48	193.77	0.00	12.31	43.70	652.08
0.00	4	SLE Q	1	1	0.00	-81310.40	26.26	162.72	0.00	12.31	38.25	570.79
3.26	2	SLE R	1	1	326.00	-91214.30	-68.02	-83.94	0.00	12.31	42.65	636.92
3.26	4	SLE Q	1	1	326.00	-79680.40	-61.49	-69.31	0.00	12.31	37.25	556.29
3.50	2	SLE R	2	10	0.00	-81875.80	91.37	-79.85	0.00	12.31	53.34	793.91
3.50	4	SLE Q	2	10	0.00	-71504.40	83.79	-67.19	0.00	12.31	46.59	693.47
3.50	2	SLE R	2	10	0.00	-81875.80	91.37	-79.85	0.00	9.24	54.93	817.67
3.50	4	SLE Q	2	10	0.00	-71504.40	83.79	-67.19	0.00	9.24	47.99	714.25
6.26	2	SLE R	2	10	276.00	-80909.80	-64.84	6.27	0.00	9.24	53.28	796.74
6.26	4	SLE Q	2	10	276.00	-70538.40	-64.91	7.63	0.00	9.24	46.55	695.79
6.50	2	SLE R	3	10	0.00	-71521.60	68.30	87.48	0.00	9.24	48.06	715.06
6.50	4	SLE Q	3	10	0.00	-62336.90	76.28	67.26	0.00	9.24	41.96	624.04
6.50	2	SLE R	3	10	0.00	-71521.60	68.30	87.48	0.00	9.24	48.06	715.06
6.50	4	SLE Q	3	10	0.00	-62336.90	76.28	67.26	0.00	9.24	41.96	624.04
9.26	2	SLE R	3	10	276.00	-70555.60	-73.71	-57.01	0.00	9.24	47.17	702.69
9.26	4	SLE Q	3	10	276.00	-61370.90	-82.35	-43.69	0.00	9.24	41.14	612.55
9.50	2	SLE R	4	10	0.00	-61172.20	79.84	-3.88	0.00	9.24	40.57	605.69
9.50	4	SLE Q	4	10	0.00	-53182.80	91.16	-8.14	0.00	9.24	35.53	529.55
9.50	2	SLE R	4	10	0.00	-61172.20	79.84	-3.88	0.00	9.24	40.57	605.69
9.50	4	SLE Q	4	10	0.00	-53182.80	91.16	-8.14	0.00	9.24	35.53	529.55
12.26	2	SLE R	4	10	276.00	-60206.20	-91.04	-0.53	0.00	9.24	40.01	597.12
12.26	4	SLE Q	4	10	276.00	-52216.80	-101.03	4.85	0.00	9.24	34.96	520.84
12.50	2	SLE R	5	10	0.00	-50842.20	89.09	36.37	0.00	9.24	34.28	509.79
12.50	4	SLE Q	5	10	0.00	-44050.60	106.50	25.90	0.00	9.24	29.93	444.29
12.50	2	SLE R	5	10	0.00	-50842.20	89.09	36.37	0.00	9.24	34.28	509.79
12.50	4	SLE Q	5	10	0.00	-44050.60	106.50	25.90	0.00	9.24	29.93	444.29
15.26	2	SLE R	5	10	276.00	-49876.20	-73.35	-34.05	0.00	9.24	33.48	498.36
15.26	4	SLE Q	5	10	276.00	-43084.60	-94.28	-24.01	0.00	9.24	29.16	433.29
15.50	2	SLE R	6	7	0.00	-40426.10	37.15	11.73	0.00	9.24	34.80	518.47
15.50	4	SLE Q	6	7	0.00	-34844.10	50.49	5.73	0.00	9.24	30.25	449.48
15.50	2	SLE R	6	7	0.00	-40426.10	37.15	11.73	0.00	6.16	36.18	539.21
15.50	4	SLE Q	6	7	0.00	-34844.10	50.49	5.73	0.00	6.16	31.44	467.31
18.26	2	SLE R	6	7	276.00	-39701.60	-33.52	-13.14	0.00	6.16	35.51	529.28
18.26	4	SLE Q	6	7	276.00	-34119.60	-49.60	-6.66	0.00	6.16	30.80	457.79
18.50	2	SLE R	7	7	0.00	-30199.40	38.76	29.85	0.00	6.16	27.52	408.06
18.50	4	SLE Q	7	7	0.00	-25840.30	59.41	19.46	0.00	6.16	23.90	352.82
18.50	2	SLE R	7	7	0.00	-30199.40	38.76	29.85	0.00	6.16	27.52	408.06
18.50	4	SLE Q	7	7	0.00	-25840.30	59.41	19.46	0.00	6.16	23.90	352.82
21.26	2	SLE R	7	7	276.00	-29474.90	-42.67	-31.06	0.00	6.16	26.97	399.43
21.26	4	SLE Q	7	7	276.00	-25115.80	-61.74	-21.46	0.00	6.16	23.34	344.03
21.50	2	SLE R	8	7	0.00	-19987.20	58.38	3.08	0.00	6.16	18.53	273.19
21.50	4	SLE Q	8	7	0.00	-16849.80	75.67	-2.84	0.00	6.16	16.07	235.00
21.50	2	SLE R	8	7	0.00	-19987.20	58.38	3.08	0.00	6.16	18.53	273.19
21.50	4	SLE Q	8	7	0.00	-16849.80	75.67	-2.84	0.00	6.16	16.07	235.00
24.26	2	SLE R	8	7	276.00	-19262.70	-65.44	29.56	0.00	6.16	18.39	269.10
24.26	4	SLE Q	8	7	276.00	-16125.30	-77.51	30.69	0.00	6.16	15.86	230.21
24.50	2	SLE R	9	7	0.00	-9768.73	53.03	88.22	0.00	6.16	10.71	151.52
24.50	4	SLE Q	9	7	0.00	-7857.06	82.36	68.79	0.00	6.16	9.25	128.51
24.50	2	SLE R	9	7	0.00	-9768.73	53.03	88.22	0.00	6.16	10.71	151.52

Relazione di calcolo

24.50	4	SLE Q	9	7	0.00	-7857.06	82.36	68.79	0.00	6.16	9.25	128.51
27.26	2	SLE R	9	7	276.00	-9044.23	-32.44	-96.09	0.00	6.16	9.84	139.63
27.26	4	SLE Q	9	7	276.00	-7132.56	-74.75	-77.50	0.00	6.16	8.61	119.03

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	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	43.77	2.50	12369.40	20938.30	12369.40	0.40	0.45	116.84	2.50	15893.50	21522.90	15893.50	>100	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	43.77	2.50	12369.40	21058.60	12369.40	0.40	0.45	116.84	2.50	15893.50	21646.50	15893.50	>100	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	43.77	2.50	12369.40	21539.40	12369.40	0.40	0.45	116.84	2.50	15893.50	22140.80	15893.50	>100	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	84.77	2.02	7483.05	7483.05	7483.05	0.40	0.30	42.66	2.19	6964.79	6964.79	6964.79	88.274	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	84.77	2.03	7534.10	7534.10	7534.10	0.40	0.30	42.66	2.20	7010.90	7010.90	7010.90	88.876	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	84.77	2.08	7734.96	7734.96	7734.96	0.40	0.30	42.66	2.26	7192.38	7192.38	7192.38	91.246	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	80.89	2.50	9277.05	11482.00	9277.05	0.40	0.30	73.00	2.50	7955.54	11253.00	7955.54	>100	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	80.89	2.50	9277.05	11553.20	9277.05	0.40	0.30	73.00	2.50	7955.54	11322.80	7955.54	>100	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	80.89	2.50	9277.05	11838.20	9277.05	0.40	0.30	73.00	2.50	7955.54	11602.10	7955.54	>100	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	96.90	2.50	9277.05	16476.60	9277.05	0.40	0.30	1.74	2.50	7955.54	16148.00	7955.54	95.739	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	96.90	2.50	9277.05	16547.80	9277.05	0.40	0.30	1.74	2.50	7955.54	16217.80	7955.54	95.739	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	96.90	2.50	9277.05	16832.80	9277.05	0.40	0.30	1.74	2.50	7955.54	16497.10	7955.54	95.739	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	94.80	2.50	9277.05	21461.00	9277.05	0.40	0.30	35.55	2.50	7955.54	21033.00	7955.54	97.863	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	94.80	2.50	9277.05	21532.30	9277.05	0.40	0.30	35.55	2.50	7955.54	21102.90	7955.54	97.863	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	94.80	2.50	9277.05	21817.30	9277.05	0.40	0.30	35.55	2.50	7955.54	21382.20	7955.54	97.863	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	44.34	2.50	6634.02	14284.40	6634.02	0.30	0.30	13.12	2.50	7955.54	14682.80	7955.54	>100	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	44.34	2.50	6634.02	14335.30	6634.02	0.30	0.30	13.12	2.50	7955.54	14735.10	7955.54	>100	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	44.34	2.50	6634.02	14539.10	6634.02	0.30	0.30	13.12	2.50	7955.54	14944.60	7955.54	>100	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	52.17	2.50	6634.02	16455.30	6634.02	0.30	0.30	31.19	2.50	7955.54	16914.20	7955.54	>100	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	52.17	2.50	6634.02	16455.30	6634.02	0.30	0.30	31.19	2.50	7955.54	16914.20	7955.54	>100	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	52.17	2.50	6634.02	16455.30	6634.02	0.30	0.30	31.19	2.50	7955.54	16914.20	7955.54	>100	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	74.50	2.50	6634.02	16455.30	6634.02	0.30	0.30	11.74	2.50	7955.54	16914.20	7955.54	89.049	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	74.50	2.50	6634.02	16455.30	6634.02	0.30	0.30	11.74	2.50	7955.54	16914.20	7955.54	89.049	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	74.50	2.50	6634.02	16455.30	6634.02	0.30	0.30	11.74	2.50	7955.54	16914.20	7955.54	89.049	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	59.87	2.50	6634.02	14961.20	6634.02	0.30	0.30	94.20	2.50	7955.54	15378.40	7955.54	84.455	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	59.87	2.50	6634.02	14940.80	6634.02	0.30	0.30	94.20	2.50	7955.54	15357.50	7955.54	84.455	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	59.87	2.50	6634.02	14859.30	6634.02	0.30	0.30	94.20	2.50	7955.54	15273.70	7955.54	84.455	

Pilastrata n. 40

Nodi: 40 340 540 740 940 1140 1340 1540 1740 1940

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 <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 _t	Sic.
0.00	1(e)	SLU	1	1	0.00	-135453.00	239.69	2709.05	156.35	2709.05	-333837.00	13246.80	13202.00	56.25	1.98	2.465
0.00	1(e)	SLU	1	1	0.00	-135453.00	239.69	2709.05	156.35	2709.05	-333837.00	13246.80	13202.00	56.25	1.98	2.465
3.26	1(e)	SLU	1	1	326.00	-133334.00	-83.34	-2666.67	-313.84	-2666.67	-333837.00	-13242.00	-13199.40	236.25	2.02	2.504
3.50	1(e)	SLU	2	10	0.00	-119011.00	-161.79	-2380.23	366.46	2380.23	-246925.00	-8123.37	8206.20	142.03	1.39	2.075
3.50	1(e)	SLU	2	10	0.00	-119011.00	-161.79	-2380.23	366.46	2380.23	-235893.00	-7539.87	7676.38	139.22	1.30	1.982
6.26	1(e)	SLU	2	10	276.00	-117756.00	80.66	2355.11	-287.92	-2355.11	-235893.00	7570.29	-7701.44	319.22	1.33	2.003
6.50	1(e)	SLU	3	10	0.00	-103638.00	31.67	2072.76	265.74	2072.76	-235893.00	7819.61	7915.59	40.78	1.64	2.276
6.50	1(e)	SLU	3	10	0.00	-103638.00	31.67	2072.76	265.74	2072.76	-235893.00	7819.61	7915.59	40.78	1.64	2.276
9.26	1(e)	SLU	3	10	276.00	-102382.00	2.01	2047.65	-250.62	-2047.65	-235893.00	7836.71	-7930.25	319.22	1.67	2.304
9.50	1(e)	SLU	4	10	0.00	-88323.60	-61.97	-1766.47	221.56	1766.47	-235893.00	-7863.17	7897.14	139.22	2.03	2.671
9.50	1(e)	SLU	4	10	0.00	-88323.60	-61.97	-1766.47	221.56	1766.47	-235893.00	-7863.17	7897.14	139.22	2.03	2.671
12.26	1(e)	SLU	4	10	276.00	-87067.80	46.05	1741.36	-201.95	-1741.36	-235893.00	7857.71	-7885.10	319.22	2.06	2.709
12.50	1(e)	SLU	5	10	0.00	-73067.40	-8.01	-1461.35	189.30	1461.35	-235893.00	-7736.25	7683.29	139.22	2.48	3.228
12.50	1(e)	SLU	5	10	0.00	-73067.40	-8.01	-1461.35	189.30	1461.35	-235893.00	-7736.25	7683.29	139.22	2.48	3.228
15.26	1(e)	SLU	5	10	276.00	-71811.60	16.94	1436.23	-175.84	-1436.23	-235893.00	7719.31	-7658.40	319.22	2.52	3.285
15.50	1(e)	SLU	6	7	0.00	-57925.80	-37.41	-1158.52	77.92	1158.52	-185194.00	-5410.23	5256.26	123.75	2.25	3.197
15.50	1(e)	SLU	6	7	0.00	-57925.80	-37.41	-1158.52	77.92	1158.52	-174161.00	-4929.43	4980.43	126.56	2.20	3.007
18.26	1(e)	SLU	6	7	276.00	-56983.90	31.72	1139.68	-60.30	-1139.68	-174161.00	4919.20	-4965.75	306.56	2.24	3.056
18.50	1(e)	SLU	7	7	0.00	-43249.20	-17.42	-864.98	35.81	864.98	-174161.00	-4700.73	4625.97	126.56	2.93	4.027
18.50	1(e)	SLU	7	7	0.00	-43249.20	-17.42	-864.98	35.81	864.98	-174161.00	-4700.73	4625.97	126.56	2.93	4.027
21.26	1(e)	SLU	7	7	276.00	-42307.30	15.93	846.15	-22.73	-846.15	-174161.00	4681.07	-4597.62	306.56	2.98	4.117
21.50	1(e)	SLU	8	7	0.00	-28647.00	-36.52	-572.94	-40.56	-572.94	-174161.00	-4163.27	-4239.84	234.84	3.90	6.080
21.50	1(e)	SLU	8	7	0.00	-28647.00	-36.52	-572.94	-40.56	-572.94	-174161.00	-4163.27	-4239.84	234.84	3.90	6.080
24.26	1(e)	SLU	8	7	276.00	-27705.20	57.32	554.10	81.26	554.10	-174161.00	4132.70	4203.70	54.84	3.98	6.286
24.50	1(e)	SLU	9	7	0.00	-14181.80	15.55	283.64	-7.42	-283.64	-174161.00	3594.37	-3642.09	303.75	5.34	12.281
24.50	1(e)	SLU	9	7	0.00	-14181.80	15.55	283.64	-7.42	-283.64	-174161.00	3594.37	-3642.09	303.75	5.34	12.281
27.26	1(e)	SLU	9	7	276.00	-13240.00	60.82	264.80	-101.50	-264.80	-174161.00	3580.10	-3566.87	303.75	5.47	13.154

Stato limite d'esercizio

Relazione di calcolo

6.50	2	SLE R	3	10	0.00	-73075.90	195.36	21.04	0.00	9.24	49.59	736.54
6.50	4	SLE Q	3	10	0.00	-64080.20	186.50	11.98	0.00	9.24	43.56	646.80
9.26	2	SLE R	3	10	276.00	-72109.90	-185.35	2.68	0.00	9.24	48.67	723.87
9.26	4	SLE Q	3	10	276.00	-63114.20	-178.32	5.79	0.00	9.24	42.79	635.75
9.50	2	SLE R	4	10	0.00	-62274.30	167.73	-47.20	0.00	9.24	42.58	631.22
9.50	4	SLE Q	4	10	0.00	-54487.50	165.16	-42.65	0.00	9.24	37.45	554.49
9.50	2	SLE R	4	10	0.00	-62274.30	167.73	-47.20	0.00	9.24	42.58	631.22
9.50	4	SLE Q	4	10	0.00	-54487.50	165.16	-42.65	0.00	9.24	37.45	554.49
12.26	2	SLE R	4	10	276.00	-61308.30	-153.46	34.87	0.00	9.24	41.69	618.79
12.26	4	SLE Q	4	10	276.00	-53521.50	-152.61	32.66	0.00	9.24	36.59	542.52
12.50	2	SLE R	5	10	0.00	-51510.50	148.74	-7.85	0.00	9.24	34.99	519.59
12.50	4	SLE Q	5	10	0.00	-44924.30	155.40	-9.67	0.00	9.24	30.79	456.33
12.50	2	SLE R	5	10	0.00	-51510.50	148.74	-7.85	0.00	9.24	34.99	519.59
12.50	4	SLE Q	5	10	0.00	-44924.30	155.40	-9.67	0.00	9.24	30.79	456.33
15.26	2	SLE R	5	10	276.00	-50544.50	-140.70	14.41	0.00	9.24	34.35	510.05
15.26	4	SLE Q	5	10	276.00	-43958.30	-150.29	15.45	0.00	9.24	30.18	447.02
15.50	2	SLE R	6	7	0.00	-40825.20	65.75	-28.69	0.00	9.24	35.85	531.06
15.50	4	SLE Q	6	7	0.00	-35427.00	74.31	-26.63	0.00	9.24	31.42	464.13
15.50	2	SLE R	6	7	0.00	-40825.20	65.75	-28.69	0.00	6.16	37.26	552.15
15.50	4	SLE Q	6	7	0.00	-35427.00	74.31	-26.63	0.00	6.16	32.65	482.45
18.26	2	SLE R	6	7	276.00	-40100.70	-54.78	24.65	0.00	6.16	36.38	540.07
18.26	4	SLE Q	6	7	276.00	-34702.50	-67.12	23.01	0.00	6.16	31.84	471.10
18.50	2	SLE R	7	7	0.00	-30488.60	40.12	-14.71	0.00	6.16	27.58	409.71
18.50	4	SLE Q	7	7	0.00	-26263.00	58.16	-15.88	0.00	6.16	24.20	357.58
18.50	2	SLE R	7	7	0.00	-30488.60	40.12	-14.71	0.00	6.16	27.58	409.71
18.50	4	SLE Q	7	7	0.00	-26263.00	58.16	-15.88	0.00	6.16	24.20	357.58
21.26	2	SLE R	7	7	276.00	-29764.10	-30.31	14.02	0.00	6.16	26.77	398.36
21.26	4	SLE Q	7	7	276.00	-25538.50	-47.44	14.83	0.00	6.16	23.37	346.02
21.50	2	SLE R	8	7	0.00	-20203.10	-14.11	-27.77	0.00	6.16	18.32	272.15
21.50	4	SLE Q	8	7	0.00	-17142.80	16.63	-25.81	0.00	6.16	15.66	232.09
21.50	2	SLE R	8	7	0.00	-20203.10	-14.11	-27.77	0.00	6.16	18.32	272.15
21.50	4	SLE Q	8	7	0.00	-17142.80	16.63	-25.81	0.00	6.16	15.66	232.09
24.26	2	SLE R	8	7	276.00	-19478.60	43.27	44.37	0.00	6.16	18.42	270.38
24.26	4	SLE Q	8	7	276.00	-16418.30	5.48	38.05	0.00	6.16	15.01	222.55
24.50	2	SLE R	9	7	0.00	-10012.40	10.82	10.80	0.00	6.16	9.10	135.08
24.50	4	SLE Q	9	7	0.00	-8091.67	34.29	4.40	0.00	6.16	7.73	112.97
24.50	2	SLE R	9	7	0.00	-10012.40	10.82	10.80	0.00	6.16	9.10	135.08
24.50	4	SLE Q	9	7	0.00	-8091.67	34.29	4.40	0.00	6.16	7.73	112.97
27.26	2	SLE R	9	7	276.00	-9287.94	-89.33	49.80	0.00	6.16	10.35	145.52
27.26	4	SLE Q	9	7	276.00	-7367.17	-86.55	49.72	0.00	6.16	8.62	119.80

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	b _{w,y}	d _y	V _{sdu,y}	ctgθ _y	V _{Rsd,y}	V _{Rcd,y}	V _{rd,y}	b _{w,z}	d _z	V _{sdu,z}	ctgθ _z	V _{Rsd,z}	V _{Rcd,z}	V _{rd,z}	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	144.23	2.50	12369.40	19637.00	12369.40	0.40	0.45	99.09	2.50	15893.50	20185.20	15893.50	85.761	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.35	144.23	2.50	12369.40	19757.20	12369.40	0.40	0.45	99.09	2.50	15893.50	20308.80	15893.50	85.761	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.35	144.23	2.50	12369.40	20238.10	12369.40	0.40	0.45	99.09	2.50	15893.50	20803.10	15893.50	85.761	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.35	237.09	1.82	6747.08	6747.08	6747.08	0.40	0.30	87.85	1.98	6301.30	6301.30	6301.30	28.457	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.35	237.09	1.83	6803.66	6803.66	6803.66	0.40	0.30	87.85	2.00	6352.23	6352.23	6352.23	28.696	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.35	237.09	1.89	7025.43	7025.43	7025.43	0.40	0.30	87.85	2.06	6551.97	6551.97	6551.97	29.631	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.35	187.09	2.50	9277.05	10743.00	9277.05	0.40	0.30	10.75	2.50	7955.54	10528.80	7955.54	49.587	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.35	187.09	2.50	9277.05	10814.20	9277.05	0.40	0.30	10.75	2.50	7955.54	10598.60	7955.54	49.587	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.35	187.09	2.50	9277.05	11099.20	9277.05	0.40	0.30	10.75	2.50	7955.54	10877.90	7955.54	49.587	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.35	153.45	2.50	9277.05	15956.20	9277.05	0.40	0.30	39.14	2.50	7955.54	15638.00	7955.54	60.458	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.35	153.45	2.50	9277.05	16027.50	9277.05	0.40	0.30	39.14	2.50	7955.54	15707.80	7955.54	60.458	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.35	153.45	2.50	9277.05	16312.50	9277.05	0.40	0.30	39.14	2.50	7955.54	15987.10	7955.54	60.458	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.35	132.30	2.50	9277.05	21149.60	9277.05	0.40	0.30	9.04	2.50	7955.54	20727.80	7955.54	70.121	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.35	132.30	2.50	9277.05	21220.80	9277.05	0.40	0.30	9.04	2.50	7955.54	20797.60	7955.54	70.121	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.35	132.30	2.50	9277.05	21505.80	9277.05	0.40	0.30	9.04	2.50	7955.54	21076.90	7955.54	70.121	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.25	50.08	2.50	6634.02	14109.70	6634.02	0.30	0.30	25.05	2.50	7955.54	14503.20	7955.54	>100	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.25	50.08	2.50	6634.02	14160.70	6634.02	0.30	0.30	25.05	2.50	7955.54	14555.60	7955.54	>100	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.25	50.08	2.50	6634.02	14364.50	6634.02	0.30	0.30	25.05	2.50	7955.54	14765.10	7955.54	>100	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.25	21.21	2.50	6634.02	16455.30	6634.02	0.30	0.30	12.09	2.50	7955.54	16914.20	7955.54	>100	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.25	21.21	2.50	6634.02	16455.30	6634.02	0.30	0.30	12.09	2.50	7955.54	16914.20	7955.54	>100	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.25	21.21	2.50	6634.02	16455.30	6634.02	0.30	0.30	12.09	2.50	7955.54	16914.20	7955.54	>100	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.25	44.14	2.50	6634.02	16455.30	6634.02	0.30	0.30	34.00	2.50	7955.54	16914.20	7955.54	>100	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.25	44.14	2.50	6634.02	16455.30	6634.02	0.30	0.30	34.00	2.50	7955.54	16914.20	7955.54	>100	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.25	44.14	2.50	6634.02	16455.30	6634.02	0.30	0.30	34.00	2.50	7955.54	16914.20	7955.54	>100	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.25	34.09	2.50	6634.02	15005.40	6634.02	0.30	0.30	16.40	2.50	7955.54	15423.90	7955.54	>100	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.25	34.09	2.50	6634.02	14985.10	6634.02	0.30	0.30	16.40	2.50	7955.54	15403.00	7955.54	>100	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.25	34.09	2.50	6634.02	14903.50	6634.02	0.30	0.30	16.40	2.50	7955.54	15319.20	7955.54	>100	

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>	F _{cm} <daN/cm ² >	F _{ctm} <daN/cm ² >	F _{cd} <daN/cm ² >	F _{cd} (Tag) <daN/cm ² >	F _{ctd} <daN/cm ² >	F _{ym} <daN/cm ² >	F _{yd} <daN/cm ² >	F _{yd} (Tag) <daN/cm ² >
24	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 _r	Sic.
12.50	1 (e)	SLU	5	9	0.00	-41433.50	-354.34	-828.67	-1344.91	-1344.91	-41433.50	-2937.68	-4908.44	248.91	2.51	3.621
12.50	1 (e)	SLU	5	9	0.00	-41433.50	-354.34	-828.67	-1344.91	-1344.91	-41433.50	-2937.68	-4908.44	248.91	2.51	3.621
15.26	1 (e)	SLU	5	9	276.00	-40648.60	341.64	812.97	1316.76	1316.76	-40648.60	2932.79	4898.14	68.91	2.55	3.688

Relazione di calcolo

15.50	1(e)	SLU	6	9	0.00	-33152.50	-361.86	-663.05	-1403.67	-1403.67	-33152.50	-2355.08	-4981.28	252.42	3.08	3.549
15.50	1(e)	SLU	6	9	0.00	-33152.50	-361.86	663.05	-1403.67	-1403.67	-33152.50	2011.77	-4342.32	285.47	3.26	3.083
18.26	1(e)	SLU	6	9	276.00	-32367.60	343.57	647.35	1382.01	1382.01	-32367.60	2003.37	4320.17	74.53	3.32	3.120
18.50	1(e)	SLU	7	9	0.00	-24765.50	-343.91	495.31	-1489.51	-1489.51	-24765.50	1306.09	-4099.38	278.44	4.96	2.741
18.50	1(e)	SLU	7	9	0.00	-24765.50	-343.91	495.31	-1489.51	-1489.51	-24765.50	1306.09	-4099.38	278.44	4.96	2.741
21.26	1(e)	SLU	7	9	276.00	-23980.60	334.06	479.61	1465.08	1465.08	-23980.60	1314.02	4043.51	81.56	5.09	2.758
21.50	1	SLU	8	9	0.00	-16312.90	-339.59	-339.59	-1492.83	-1492.83	-16312.90	-741.42	-3519.52	265.78	7.38	2.349
21.50	1	SLU	8	9	0.00	-16312.90	-339.59	-339.59	-1492.83	-1492.83	-16312.90	-741.42	-3519.52	265.78	7.38	2.349
24.26	1	SLU	8	9	276.00	-15528.00	328.12	328.12	1397.65	1397.65	-15528.00	831.87	3463.58	85.43	7.46	2.481
24.50	1	SLU	9	9	0.00	-7751.40	-339.07	-339.07	-1791.80	-1791.80	-7751.40	-492.18	-2833.31	267.54	10.41	1.577
24.50	1	SLU	9	9	0.00	-7751.40	-339.07	-339.07	-1791.80	-1791.80	-7751.40	-492.18	-2833.31	267.54	10.41	1.577
27.26	1	SLU	9	9	276.00	-6966.53	468.94	468.94	2053.68	2053.68	-6966.53	607.80	2776.51	87.19	10.52	1.349

Dati per verifiche di stabilità

Xg <m>	El <m>	l ₀ <m>	λ	λ*	Xg <m>	El <m>	l ₀ <m>	λ	λ*	Xg <m>	El <m>	l ₀ <m>	λ	λ*	Xg <m>	El <m>	l ₀ <m>	λ	λ*
---	1	3.50	48.50	39.16	---	1	3.50	48.50	39.16	---	1	3.50	48.50	39.16	---	2	3.00	41.57	34.78
---	2	3.00	41.57	34.78	---	2	3.00	41.57	34.78	---	3	3.00	41.57	37.16	---	3	3.00	41.57	37.16
---	3	3.00	41.57	37.16	---	4	3.00	41.57	40.12	---	4	3.00	41.57	40.12	---	4	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 _x	Sic.
0.00	1(e)	SLU	1	24	0.00	-74443.90	-115.50	-1488.88	-586.74	-1488.88	-225197.00	-5371.67	-5301.47	255.94	2.11	3.025
0.00	1(e)	SLU	1	24	0.00	-74443.90	-115.50	-1488.88	-586.74	-1488.88	-225197.00	-5371.67	-5301.47	255.94	2.11	3.025
3.26	1(e)	SLU	1	24	326.00	-73119.50	439.24	1462.39	1067.61	1462.39	-225197.00	5387.07	5300.08	75.94	2.15	3.080
3.50	1(e)	SLU	2	9	0.00	-65873.00	-448.70	-1317.46	-1276.07	-1317.46	-170876.00	-3920.04	-3943.39	243.28	1.58	2.594
3.50	1(e)	SLU	2	9	0.00	-65873.00	-448.70	-1317.46	-1276.07	-1317.46	-159844.00	-3528.59	-3673.35	240.47	1.49	2.427
6.26	1(e)	SLU	2	9	276.00	-65088.10	422.87	1301.76	1209.50	1301.76	-159844.00	3540.42	3684.32	60.47	1.52	2.456
6.50	1(e)	SLU	3	9	0.00	-57761.10	-375.06	-1155.22	-1250.14	-1250.14	-159844.00	-3413.50	-3798.98	241.88	1.76	2.767
6.50	1(e)	SLU	3	9	0.00	-57761.10	-375.06	-1155.22	-1250.14	-1250.14	-159844.00	-3413.50	-3798.98	241.88	1.76	2.767
9.26	1(e)	SLU	3	9	276.00	-56976.20	366.36	1139.52	1227.24	1227.24	-159844.00	3416.94	3799.88	61.88	1.79	2.805
9.50	1(e)	SLU	4	9	0.00	-49619.40	-392.14	-992.39	-1306.85	-1306.85	-49619.40	-2979.05	-4078.64	244.69	2.10	3.078
9.50	1(e)	SLU	4	9	0.00	-49619.40	-392.14	-992.39	-1306.85	-1306.85	-49619.40	-2979.05	-4078.64	244.69	2.10	3.078
12.26	1(e)	SLU	4	9	276.00	-48834.50	371.02	976.69	1268.65	1268.65	-48834.50	2985.03	4079.70	64.69	2.14	3.158

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ _c	σ _f	
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>	
0.00	2	SLE	R	1	24	0.00	-53187.10	-409.49	-94.67	0.00	12.31	44.76	630.97
0.00	4	SLE	Q	1	24	0.00	-47692.40	-355.68	-112.51	0.00	12.31	40.15	566.60
0.00	2	SLE	R	1	24	0.00	-53187.10	-409.49	-94.67	0.00	12.31	44.76	630.97
0.00	4	SLE	Q	1	24	0.00	-47692.40	-355.68	-112.51	0.00	12.31	40.15	566.60
3.26	2	SLE	R	1	24	326.00	-52168.30	744.99	341.67	0.00	12.31	51.67	697.99
3.26	4	SLE	Q	1	24	326.00	-46673.70	647.58	347.99	0.00	12.31	46.24	625.50
3.50	2	SLE	R	2	9	0.00	-47026.00	-889.09	-342.04	0.00	12.31	70.20	918.85
3.50	4	SLE	Q	2	9	0.00	-42066.90	-772.22	-325.33	0.00	12.31	62.57	820.23
3.50	2	SLE	R	2	9	0.00	-47026.00	-889.09	-342.04	0.00	9.24	72.61	953.50
3.50	4	SLE	Q	2	9	0.00	-42066.90	-772.22	-325.33	0.00	9.24	64.75	851.48
6.26	2	SLE	R	2	9	276.00	-46422.30	841.69	325.05	0.00	9.24	70.64	931.07
6.26	4	SLE	Q	2	9	276.00	-41463.10	729.76	313.45	0.00	9.24	62.97	831.06
6.50	2	SLE	R	3	9	0.00	-41229.20	-868.43	-293.20	0.00	9.24	65.60	854.17
6.50	4	SLE	Q	3	9	0.00	-36823.90	-750.12	-291.48	0.00	9.24	58.50	762.80
6.50	2	SLE	R	3	9	0.00	-41229.20	-868.43	-293.20	0.00	9.24	65.60	854.17
6.50	4	SLE	Q	3	9	0.00	-36823.90	-750.12	-291.48	0.00	9.24	58.50	762.80
9.26	2	SLE	R	3	9	276.00	-40625.40	851.93	285.82	0.00	9.24	64.50	840.26
9.26	4	SLE	Q	3	9	276.00	-36220.20	734.87	281.19	0.00	9.24	57.38	748.62
9.50	2	SLE	R	4	9	0.00	-35414.30	-905.71	-306.76	0.00	9.24	60.95	778.76
9.50	4	SLE	Q	4	9	0.00	-31571.50	-779.51	-297.22	0.00	9.24	54.09	692.54
9.50	2	SLE	R	4	9	0.00	-35414.30	-905.71	-306.76	0.00	9.24	60.95	778.76
9.50	4	SLE	Q	4	9	0.00	-31571.50	-779.51	-297.22	0.00	9.24	54.09	692.54
12.26	2	SLE	R	4	9	276.00	-34810.50	878.64	290.63	0.00	9.24	59.46	760.93
12.26	4	SLE	Q	4	9	276.00	-30967.70	755.24	282.01	0.00	9.24	52.68	675.50
12.50	2	SLE	R	5	9	0.00	-29570.90	-930.42	-280.24	0.00	9.24	55.31	692.78
12.50	4	SLE	Q	5	9	0.00	-26300.70	-797.96	-273.10	0.00	9.24	48.91	614.11
12.50	2	SLE	R	5	9	0.00	-29570.90	-930.42	-280.24	0.00	9.24	55.31	692.78
12.50	4	SLE	Q	5	9	0.00	-26300.70	-797.96	-273.10	0.00	9.24	48.91	614.11
15.26	2	SLE	R	5	9	276.00	-28967.20	910.71	270.51	0.00	9.24	54.10	677.74
15.26	4	SLE	Q	5	9	276.00	-25696.90	780.57	263.19	0.00	9.24	47.75	599.55
15.50	2	SLE	R	6	9	0.00	-23662.30	-970.69	-286.02	0.00	9.24	50.59	615.97
15.50	4	SLE	Q	6	9	0.00	-20976.40	-831.95	-275.89	0.00	9.24	44.54	543.76
15.50	2	SLE	R	6	9	0.00	-23662.30	-970.69	-286.02	0.00	6.16	52.97	644.66
15.50	4	SLE	Q	6	9	0.00	-20976.40	-831.95	-275.89	0.00	6.16	46.61	568.82
18.26	2	SLE	R	6	9	276.00	-23058.60	955.83	272.19	0.00	6.16	51.76	629.38
18.26	4	SLE	Q	6	9	276.00	-20372.70	819.23	262.37	0.00	6.16	45.46	554.10
18.50	2	SLE	R	7	9	0.00	-17679.40	-1030.31	-273.83	1.54	4.62	50.17	580.02
18.50	4	SLE	Q	7	9	0.00	-15589.90	-880.67	-265.38	1.54	4.62	43.74	508.12
18.50	2	SLE	R	7	9	0.00	-17679.40	-1030.31	-273.83	1.54	4.62	50.17	580.02
18.50	4	SLE	Q	7	9	0.00	-15589.90	-880.67	-265.38	1.54	4.62	43.74	508.12
21.26	2	SLE	R	7	9	276.00	-17075.60	1013.21	266.67	1.54	4.62	49.17	566.45
21.26	4	SLE	Q	7	9	276.00	-14986.20	864.28	257.87	1.54	4.62	42.74	494.64

Relazione di calcolo

21.50	2	SLE R	8	9	0.00	-11651.40	-1032.39	-268.93	3.08	3.08	51.32	528.09
21.50	4	SLE Q	8	9	0.00	-10167.10	-886.48	-258.95	3.08	3.08	44.70	462.70
21.50	2	SLE R	8	9	0.00	-11651.40	-1032.39	-268.93	3.08	3.08	51.32	528.09
21.50	4	SLE Q	8	9	0.00	-10167.10	-886.48	-258.95	3.08	3.08	44.70	462.70
24.26	2	SLE R	8	9	276.00	-11047.70	966.03	260.11	3.08	3.08	48.13	497.62
24.26	4	SLE Q	8	9	276.00	-9563.34	836.85	247.25	3.08	3.08	42.31	437.38
24.50	2	SLE R	9	9	0.00	-5548.65	-1241.13	-271.03	3.08	3.08	69.53	1449.74
24.50	4	SLE Q	9	9	0.00	-4690.97	-1023.79	-269.49	3.08	3.08	59.00	1200.88
24.50	2	SLE R	9	9	0.00	-5548.65	-1241.13	-271.03	3.08	3.08	69.53	1449.74
24.50	4	SLE Q	9	9	0.00	-4690.97	-1023.79	-269.49	3.08	3.08	59.00	1200.88
27.26	2	SLE R	9	9	276.00	-4944.90	1423.64	373.82	3.08	3.08	83.51	1918.88
27.26	4	SLE Q	9	9	276.00	-4087.22	1135.75	365.74	3.08	3.08	69.18	1543.36

Stato limite d'esercizio - Verifiche a fessurazione

Xg	CC	TCC	El	Sez.	X	N	My	Mz	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
<m>					<cm>	<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
24.50	4	SLE Q	9	9	0.00	-4690.97	-269.49	-1023.79	39.00	258.00	0.50	14.00	218.49	1.54	154.48	1200.88	0.35	0.13
24.50	3	SLE F	9	9	0.00	-4910.76	-269.89	-1082.55	39.00	258.00	0.50	14.00	220.81	1.54	157.03	1269.97	0.37	0.14
24.50	4	SLE Q	9	9	0.00	-4690.97	-269.49	-1023.79	39.00	258.00	0.50	14.00	218.49	1.54	154.48	1200.88	0.35	0.13
24.50	3	SLE F	9	9	0.00	-4910.76	-269.89	-1082.55	39.00	258.00	0.50	14.00	220.81	1.54	157.03	1269.97	0.37	0.14
27.26	4	SLE Q	9	9	276.00	-4087.22	365.74	1135.75	39.00	258.00	0.50	14.00	218.18	1.54	154.14	1543.36	0.45	0.17
27.26	3	SLE F	9	9	276.00	-4307.01	367.96	1211.00	39.00	258.00	0.50	14.00	220.95	1.54	157.19	1642.18	0.48	0.18

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	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	0.20	507.47	2.50	7083.33	14430.80	7083.33	0.25	0.45	170.17	2.50	15893.50	16189.80	15893.50	13.958	
0.54	2.72	ø8/20	2	21	SLU	0.50	0.20	507.47	2.50	7083.33	14499.60	7083.33	0.25	0.45	170.17	2.50	15893.50	16267.00	15893.50	13.958	
2.72	3.26	ø8/20	2	21	SLU	0.50	0.20	507.47	2.50	7083.33	14775.00	7083.33	0.25	0.45	170.17	2.50	15893.50	16576.00	15893.50	13.958	
3.50	3.96	ø6/15	2	21	SLU	0.35	0.20	900.57	2.50	5312.50	5809.16	5312.50	0.25	0.30	315.78	2.16	6871.46	6871.46	6871.46	5.899	
3.96	5.80	ø6/15	2	21	SLU	0.35	0.20	900.57	2.50	5312.50	5849.96	5312.50	0.25	0.30	315.78	2.17	6900.70	6900.70	6900.70	5.899	
5.80	6.26	ø6/15	2	21	SLU	0.35	0.20	900.57	2.50	5312.50	6013.16	5312.50	0.25	0.30	315.78	2.20	7016.45	7016.45	7016.45	5.899	
6.50	6.96	ø6/15	2	21	SLU	0.35	0.20	897.60	2.50	5312.50	8339.22	5312.50	0.25	0.30	268.63	2.50	7955.54	8920.06	7955.54	5.919	
6.96	8.80	ø6/15	2	21	SLU	0.35	0.20	897.60	2.50	5312.50	8380.02	5312.50	0.25	0.30	268.63	2.50	7955.54	8963.70	7955.54	5.919	
8.80	9.26	ø6/15	2	21	SLU	0.35	0.20	897.60	2.50	5312.50	8543.22	5312.50	0.25	0.30	268.63	2.50	7955.54	9138.27	7955.54	5.919	
9.50	9.96	ø6/15	2	21	SLU	0.35	0.20	933.15	2.50	5312.50	10878.60	5312.50	0.25	0.30	276.51	2.50	7955.54	11636.30	7955.54	5.693	
9.96	11.80	ø6/15	2	21	SLU	0.35	0.20	933.15	2.50	5312.50	10919.40	5312.50	0.25	0.30	276.51	2.50	7955.54	11679.90	7955.54	5.693	
11.80	12.26	ø6/15	2	21	SLU	0.35	0.20	933.15	2.50	5312.50	11082.60	5312.50	0.25	0.30	276.51	2.50	7955.54	11854.50	7955.54	5.693	
12.50	12.96	ø6/15	2	21	SLU	0.35	0.20	964.38	2.50	5312.50	13177.40	5312.50	0.25	0.30	252.16	2.50	7955.54	14095.20	7955.54	5.509	
12.96	14.80	ø6/15	2	21	SLU	0.35	0.20	964.38	2.50	5312.50	13177.40	5312.50	0.25	0.30	252.17	2.50	7955.54	14095.20	7955.54	5.509	
14.80	15.26	ø6/15	2	21	SLU	0.35	0.20	964.38	2.50	5312.50	13177.40	5312.50	0.25	0.30	252.17	2.50	7955.54	14095.20	7955.54	5.509	
15.50	15.96	ø6/15	2	21	SLU	0.35	0.20	1009.30	2.50	5312.50	13177.40	5312.50	0.25	0.30	255.59	2.50	7955.54	14095.20	7955.54	5.264	
15.96	17.80	ø6/15	2	21	SLU	0.35	0.20	1009.30	2.50	5312.50	13177.40	5312.50	0.25	0.30	255.59	2.50	7955.54	14095.20	7955.54	5.264	
17.80	18.26	ø6/15	2	21	SLU	0.35	0.20	1009.30	2.50	5312.50	13177.40	5312.50	0.25	0.30	255.59	2.50	7955.54	14095.20	7955.54	5.264	
18.50	18.96	ø6/15	2	21	SLU	0.35	0.20	1070.50	2.50	5312.50	13177.40	5312.50	0.25	0.30	245.64	2.50	7955.54	14095.20	7955.54	4.963	
18.96	20.80	ø6/15	2	21	SLU	0.35	0.20	1070.50	2.50	5312.50	13177.40	5312.50	0.25	0.30	245.64	2.50	7955.54	14095.20	7955.54	4.963	
20.80	21.26	ø6/15	2	21	SLU	0.35	0.20	1070.50	2.50	5312.50	13177.40	5312.50	0.25	0.30	245.64	2.50	7955.54	14095.20	7955.54	4.963	
21.50	21.96	ø6/15	2	21	SLU	0.35	0.20	1047.28	2.50	5312.50	12577.10	5312.50	0.25	0.30	241.92	2.50	7955.54	13453.10	7955.54	5.073	
21.96	23.80	ø6/15	2	21	SLU	0.35	0.20	1047.28	2.50	5312.50	12560.70	5312.50	0.25	0.30	241.92	2.50	7955.54	13435.60	7955.54	5.073	
23.80	24.26	ø6/15	2	21	SLU	0.35	0.20	1047.28	2.50	5312.50	12495.50	5312.50	0.25	0.30	241.92	2.50	7955.54	13365.80	7955.54	5.073	
24.50	24.96	ø6/15	2	21	SLU	0.35	0.20	1393.29	2.50	5312.50	11508.90	5312.50	0.25	0.30	292.76	2.50	7955.54	12310.60	7955.54	3.813	
24.96	26.80	ø6/15	2	21	SLU	0.35	0.20	1393.29	2.50	5312.50	11492.60	5312.50	0.25	0.30	292.76	2.50	7955.54	12293.10	7955.54	3.813	
26.80	27.26	ø6/15	2	21	SLU	0.35	0.20	1393.29	2.50	5312.50	11427.30	5312.50	0.25	0.30	292.76	2.50	7955.54	12223.30	7955.54	3.813	

Verifiche e armature nuclei

Simbologia

Δ _{sm}	=	Distanza media tra le fessure
Φ _{eq}	=	Diametro equivalente delle barre
ε _{sm}	=	Deformazione unitaria media dell'armatura (*1000)
σ _c	=	Tensione nel calcestruzzo
σ _f	=	Tensione nel ferro
σ _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'ydy,r	=	Momento resistente massimo in campo sostanzialmente elastico (ridotto del 30%) intorno all'asse Y
M'ydz,r	=	Momento resistente massimo in campo sostanzialmente elastico (ridotto del 30%) intorno all'asse Z
MRdy,r	=	Momento resistente allo stato limite ultimo (ridotto del 30%) intorno all'asse Y
MRdz,r	=	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
Pos.	=	Posizione (P=Piede, T=Testa)
Sic.	=	Sicurezza
Spess.	=	Spessore
TCC	=	Tipo di combinazione di carico
		SLU = Stato limite ultimo

Relazione di calcolo

	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
ctgθ	= Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s	= Distanza massima tra le barre

Numero del nucleo n. 303

Nodi: -101 -119 -136 -153

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	-114448.00	258.54	0.00	-429421.00	5398.97	0.00	3.752
2	P	1	SLU	-113651.00	-162.25	0.00	-429422.00	-5385.79	0.00	3.778
3	P	1	SLU	-111815.00	281.91	0.00	-429421.00	5353.77	0.00	3.840

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cm²>	σt <daN/cm²>
1	P	2	SLE R	-82482.40	0.00	-3364.65	33.76	503.95
1	P	4	SLE Q	-69445.00	0.00	-2867.29	28.46	424.89
2	P	2	SLE R	-81877.60	0.00	-2146.67	32.07	479.45
2	P	4	SLE Q	-68832.90	0.00	-1842.24	27.00	403.72
3	P	2	SLE R	-80530.30	199.20	0.00	32.14	458.40
3	P	4	SLE Q	-67615.00	157.30	0.00	26.83	383.70

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	5764.86	2.50	23060.50	45760.30	4.000
2	T	1	5936.11	2.50	23060.50	45760.30	3.885

Numero del nucleo n. 306

Nodi: -99 -100 -101

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	-105960.00	674.63	0.00	-381658.00	4876.82	0.00	3.602
2	P	1	SLU	-100689.00	-250.46	0.00	-381658.00	-4788.97	0.00	3.790
3	P	1	SLU	-96106.40	209.12	0.00	-381658.00	4703.65	0.00	3.971

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cm²>	σt <daN/cm²>
1	P	2	SLE R	-76451.00	485.14	0.00	39.62	529.45
1	P	4	SLE Q	-64439.80	396.72	0.00	33.18	444.63
2	P	2	SLE R	-72594.00	-178.01	0.00	32.58	464.95
2	P	4	SLE Q	-61123.00	-140.03	0.00	27.26	390.16
3	P	2	SLE R	-69226.90	150.04	0.00	30.72	440.75
3	P	4	SLE Q	-58192.90	119.73	0.00	25.71	369.64

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	813.71	2.50	20417.40	40515.40	25.092
2	T	1	893.28	2.50	20417.40	40515.40	22.857

Numero del nucleo n. 308

Relazione di calcolo

Nodi: -99 -117 -134 -151

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	-112708.00	-193.65	0.00	-429421.00	-5370.15	0.00	3.810
	2P	1	SLU	-113188.00	189.71	0.00	-429421.00	5378.13	0.00	3.794
	3P	1	SLU	-112714.00	-255.70	0.00	-429422.00	-5370.17	0.00	3.810

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
	1P	2	SLE R	-81257.60	0.00	-3405.85	33.37	498.06
	1P	4	SLE Q	-68403.20	0.00	-2909.07	28.14	420.00
	2P	2	SLE R	-81557.70	0.00	-2157.91	31.96	477.92
	2P	4	SLE Q	-68561.70	0.00	-1859.73	26.93	402.56
	3P	2	SLE R	-81175.50	-180.91	0.00	32.08	459.71
	3P	4	SLE Q	-68166.10	-141.69	0.00	26.78	384.82

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	6020.35	2.50	23060.50	45760.10	3.830
	2P	1	5930.04	2.50	23060.50	45760.10	3.889

Numero del nucleo n. 318

Nodi: -151 -152 -153

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	-96170.50	-268.70	0.00	-381658.00	-4704.89	0.00	3.969
	2P	1	SLU	-99083.00	417.40	0.00	-381658.00	4760.69	0.00	3.852
	3P	1	SLU	-103301.00	-463.36	0.00	-381658.00	-4832.47	0.00	3.695

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
	1P	2	SLE R	-69245.10	-185.26	0.00	31.36	445.57
	1P	4	SLE Q	-58197.20	-132.73	0.00	25.94	371.41
	2T	2	SLE R	-70865.10	-382.87	0.00	35.53	481.83
	2T	4	SLE Q	-59425.70	-279.32	0.00	29.05	398.47
	3P	2	SLE R	-74387.50	-319.99	0.00	35.84	494.83
	3P	4	SLE Q	-62395.30	-221.18	0.00	29.22	408.74

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	768.11	2.50	20417.40	40515.40	26.581
	2P	1	732.77	2.50	20417.40	40515.40	27.863

Numero del nucleo n. 387

Nodi: -220 -228 -234 -241

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		-111815.00	281.91	0.00	-429421.00	5353.77	0.00
2P	1	SLU		-112121.00	-748.72	0.00	-429422.00	-5359.76	0.00
3P	1	SLU		-101705.00	-289.82	0.00	-429421.00	-5160.39	0.00

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1P	2	SLE	R	-80530.30	199.20	0.00	32.14	458.40
1P	4	SLE	Q	-67615.00	157.30	0.00	26.83	383.70
2T	2	SLE	R	-80159.10	666.00	0.00	39.39	511.83
2T	4	SLE	Q	-67117.90	537.44	0.00	32.67	426.16
3P	2	SLE	R	-73257.50	-204.10	0.00	29.60	419.72
3P	2	SLE	R	-73257.50	0.00	-2031.79	28.82	430.91
3P	4	SLE	Q	-61605.70	-157.58	0.00	24.67	351.29

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		6486.82	2.50	23060.50	45760.30	3.555
2T	1		1791.81	2.50	23060.50	45760.30	12.870

Numero del nucleo n. 395

Nodi: -218 -219 -220

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		-96106.40	209.12	0.00	-381658.00	4703.65	0.00	3.971
2P	1	SLU		-93400.40	-287.10	0.00	-381658.00	-4651.78	0.00	4.086
3P	1	SLU		-91074.80	307.43	0.00	-381658.00	4607.37	0.00	4.191

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1P	2	SLE	R	-69226.90	150.04	0.00	30.72	440.75
1P	4	SLE	Q	-58192.90	119.73	0.00	25.71	369.64
2T	2	SLE	R	-66772.80	306.44	0.00	32.51	446.74
2T	4	SLE	Q	-56037.90	252.64	0.00	27.21	374.31
3P	2	SLE	R	-65580.20	223.71	0.00	30.56	428.43
3P	4	SLE	Q	-55113.60	191.34	0.00	25.74	360.50

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		826.86	2.50	20417.40	40515.40	24.693
2T	1		450.99	2.50	20417.40	40515.40	45.272

Numero del nucleo n. 397

Nodi: -218 -227 -233 -239

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		-112714.00	-255.70	0.00	-429422.00	-5370.17	0.00	3.810
2P	1	SLU		-113231.00	746.18	0.00	-429422.00	5378.82	0.00	3.792
3P	1	SLU		-101309.00	404.74	0.00	-429421.00	5152.89	0.00	4.239

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1P	2	SLE	R	-81175.50	-180.91	0.00	32.08	459.71
1P	4	SLE	Q	-68166.10	-141.69	0.00	26.78	384.82

Relazione di calcolo

2T	2SLE R	-80956.80	-686.72	0.00	40.01	518.59
2T	4SLE Q	-67802.70	-555.46	0.00	33.20	431.99
3P	2SLE R	-72983.90	285.20	0.00	30.78	427.88
3P	2SLE R	-72983.90	0.00	-2613.64	29.43	439.58
3P	4SLE Q	-61374.80	225.33	0.00	25.66	358.10

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	6965.75	2.50	23060.50	45760.10	3.311	
2P	1	2618.67	2.50	23060.50	45760.10	8.806	

Numero del nucleo n. 403

Nodi: -239 -240 -241

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-103301.00	-463.36	0.00	-381658.00	-4832.47	0.00	3.695	
2T	1	SLU	-101879.00	-2086.16	0.00	-101879.00	-4808.84	0.00	2.305	
3P	1	SLU	-93694.30	785.51	0.00	-381658.00	4657.51	0.00	4.073	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_t <daN/cm^q>
1P	2	SLE R	-74387.50	-319.99	0.00	35.84	494.83	
1P	4	SLE Q	-62395.30	-221.18	0.00	29.22	408.74	
2T	2	SLE R	-73315.40	-1459.46	0.00	55.72	640.65	
2T	4	SLE Q	-61294.70	-1060.68	0.00	43.74	514.29	
3P	2	SLE R	-67471.00	550.79	0.00	37.15	483.65	
3P	4	SLE Q	-56725.80	381.15	0.00	29.78	395.68	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	789.09	2.50	20417.40	40515.40	25.875	
2P	1	376.06	2.50	20417.40	40515.40	54.293	

Numero del nucleo n. 487

Nodi: -907 -915 -921 387

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-101705.00	-289.82	0.00	-429421.00	-5160.38	0.00	4.222	
2P	1	SLU	-102281.00	-199.62	0.00	-429421.00	-5171.39	0.00	4.198	
3P	1	SLU	-100834.00	564.03	0.00	-429421.00	5143.73	0.00	4.259	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_t <daN/cm^q>
1P	2	SLE R	-73257.50	-204.10	0.00	29.60	419.72	
1P	2	SLE R	-73257.50	0.00	-2031.79	28.82	430.91	
1P	4	SLE Q	-61605.70	-157.58	0.00	24.67	351.29	
2T	2	SLE R	-73166.20	183.79	0.00	29.24	416.81	
2T	4	SLE Q	-61360.30	157.53	0.00	24.58	349.96	
3P	2	SLE R	-72577.90	401.72	0.00	32.48	439.51	
3P	4	SLE Q	-60880.40	333.60	0.00	27.19	368.28	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1658.62	2.50	23060.50	45760.30	13.903	

Relazione di calcolo

2	T	1	1904.62	2.50	23060.50	45760.30	12.108
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Numero del nucleo n. 495

Nodi: -905 -906 -907

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	-91074.80	307.43	0.00	-381658.00	4607.37	0.00	4.191
2	P	1	SLU	-89498.10	-319.30	0.00	-381658.00	-4577.26	0.00	4.264
3	P	1	SLU	-89290.50	248.03	0.00	-381658.00	4573.28	0.00	4.274

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	2	SLE R	-65580.20	223.71	0.00	30.56	428.43
1	P	4	SLE Q	-55113.60	191.34	0.00	25.74	360.50
2	T	2	SLE R	-63974.80	296.86	0.00	31.21	428.46
2	T	4	SLE Q	-53641.60	241.38	0.00	26.03	358.25
3	P	2	SLE R	-64227.40	171.68	0.00	29.08	413.26
3	P	4	SLE Q	-53817.70	146.29	0.00	24.41	346.61

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	790.87	2.50	20417.40	40515.40	25.817
2	P	1	848.92	2.50	20417.40	40515.40	24.051

Numero del nucleo n. 497

Nodi: -905 -914 -920 386

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	-101309.00	404.74	0.00	-429421.00	5152.89	0.00	4.239
2	P	1	SLU	-102525.00	212.97	0.00	-429421.00	5176.13	0.00	4.188
3	P	1	SLU	-101878.00	-556.60	0.00	-429421.00	-5163.74	0.00	4.215

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	2	SLE R	-72983.90	285.20	0.00	30.78	427.88
1	P	2	SLE R	-72983.90	0.00	-2613.64	29.43	439.58
1	P	4	SLE Q	-61374.80	225.33	0.00	25.66	358.10
2	T	2	SLE R	-73340.80	-212.05	0.00	29.75	421.12
2	T	4	SLE Q	-61497.10	-178.70	0.00	24.96	353.22
3	P	2	SLE R	-73305.10	-398.59	0.00	32.69	443.08
3	P	4	SLE Q	-61496.70	-327.31	0.00	27.32	370.86

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2680.52	2.50	23060.50	45760.10	8.603
2	P	1	3431.61	2.50	23060.50	45760.10	6.720

Numero del nucleo n. 503

Nodi: 386 -926 387

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	-93694.30	785.51	0.00	-381658.00	4657.51	0.00	4.073
2	P	1	SLU	-91186.00	315.42	0.00	-381658.00	4609.52	0.00	4.185
3	P	1	SLU	-91194.00	-1139.21	0.00	-91194.00	-4609.68	0.00	4.046

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm>	σ _t <daN/cm>
1	P	2	SLE R	-67471.00	550.79	0.00	37.15	483.65
1	P	4	SLE Q	-56725.80	381.15	0.00	29.78	395.68
2	T	2	SLE R	-65282.80	-756.44	0.00	39.93	497.85
2	T	4	SLE Q	-54792.90	-600.28	0.00	32.90	413.23
3	P	2	SLE R	-65654.10	-812.63	0.00	41.08	507.62
3	P	4	SLE Q	-55097.20	-645.83	0.00	33.83	421.17

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	641.53	2.50	20417.40	40515.40	31.826
2	T	1	748.86	2.50	20417.40	40515.40	27.265

Numero del nucleo n. 587

Nodi: -994 -1002 -1008 -1015

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	-100834.00	564.03	0.00	-429421.00	5143.73	0.00	4.259
2	P	1	SLU	-101703.00	-962.63	0.00	-429421.00	-5160.39	0.00	4.222
3	P	1	SLU	-90117.50	-318.40	0.00	-429421.00	-4921.08	0.00	4.765

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm>	σ _t <daN/cm>
1	P	2	SLE R	-72577.90	401.72	0.00	32.48	439.51
1	P	4	SLE Q	-60880.40	333.60	0.00	27.19	368.28
2	T	2	SLE R	-72694.50	781.61	0.00	38.54	485.25
2	T	4	SLE Q	-60791.30	636.53	0.00	31.96	403.77
3	P	2	SLE R	-64898.60	0.00	-3694.02	27.83	414.76
3	P	4	SLE Q	-54546.50	0.00	-2987.06	23.25	346.55

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	90.24	2.50	23060.50	45760.30	255.550
2	T	1	5117.11	2.50	23060.50	45760.30	4.507

Numero del nucleo n. 595

Nodi: -992 -993 -994

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	-89290.50	248.03	0.00	-381658.00	4573.28	0.00	4.274
2	P	1	SLU	-87615.70	-202.43	0.00	-381658.00	-4541.33	0.00	4.356
3	P	1	SLU	-84268.50	282.39	0.00	-381658.00	4471.40	0.00	4.529

Stato limite d'esercizio - Verifiche tensionali

Relazione di calcolo

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
1	P	2	SLE R	-64227.40	171.68	0.00	29.08	413.26
1	P	4	SLE Q	-53817.70	146.29	0.00	24.41	346.61
2	T	2	SLE R	-62641.60	288.34	0.00	30.52	419.22
2	T	4	SLE Q	-52429.90	238.69	0.00	25.50	350.52
3	P	2	SLE R	-60654.40	202.65	0.00	28.19	395.68
3	P	4	SLE Q	-50862.60	176.31	0.00	23.75	332.66

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	264.93	2.50	20417.40	40515.40	77.069
2	T	1	23.55	2.50	20417.40	40515.40	867.000

Numero del nucleo n. 597

Nodi: -992 -1001 -1007 -1013

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	-101878.00	-556.60	0.00	-429421.00	-5163.74	0.00	4.215
2	P	1	SLU	-103084.00	1012.09	0.00	-429421.00	5186.77	0.00	4.166
3	P	1	SLU	-89854.70	391.12	0.00	-429421.00	4915.59	0.00	4.779

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
1	P	2	SLE R	-73305.10	-398.59	0.00	32.69	443.08
1	P	4	SLE Q	-61496.70	-327.31	0.00	27.32	370.86
2	T	2	SLE R	-73652.60	-843.68	0.00	39.87	497.80
2	T	4	SLE Q	-61619.70	-688.31	0.00	33.08	414.39
3	P	2	SLE R	-64693.00	0.00	-4140.92	28.29	421.45
3	P	4	SLE Q	-54381.90	0.00	-3355.87	23.63	352.10

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	198.49	2.50	23060.50	45760.10	116.182
2	T	1	6051.77	2.50	23060.50	45760.10	3.811

Numero del nucleo n. 603

Nodi: -1013 -1014 -1015

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	-91194.00	-1139.21	0.00	-91194.00	-4609.68	0.00	4.046
2	T	1	SLU	-87961.90	-3177.32	0.00	-87961.90	-4547.87	0.00	1.431
3	P	1	SLU	-80739.10	1015.92	0.00	-80739.10	4395.86	0.00	4.327

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
1	P	2	SLE R	-65654.10	-812.63	0.00	41.08	507.62
1	P	4	SLE Q	-55097.20	-645.83	0.00	33.83	421.17
2	T	2	SLE R	-63247.90	-2236.72	0.00	69.79	694.87
2	T	4	SLE Q	-52923.00	-1715.36	0.00	54.08	557.11
3	P	2	SLE R	-58103.40	704.83	0.00	36.10	447.32
3	P	4	SLE Q	-48891.50	506.09	0.00	28.83	364.77

Stato limite ultimo - Verifiche a taglio

Relazione di calcolo

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	813.61	2.50	20417.40	40515.40	25.095
	2T	1	911.14	2.50	20417.40	40515.40	22.409

Numero del nucleo n. 687

Nodi: -1681 -1689 -1695 587

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	-90117.50	-318.40	0.00	-429421.00	-4921.08	0.00	4.765
	2P	1	SLU	-91153.30	-181.47	0.00	-429421.00	-4943.33	0.00	4.711
	3P	1	SLU	-89905.60	562.62	0.00	-429421.00	4916.60	0.00	4.776

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm>	σ _t <daN/cm>
	1P	2	SLE R	-64898.60	0.00	-3694.02	27.83	414.76
	1P	4	SLE Q	-54546.50	0.00	-2987.06	23.25	346.55
	2T	2	SLE R	-65124.10	164.21	0.00	26.04	371.07
	2P	2	SLE R	-65591.30	0.00	-1704.30	25.67	383.81
	2T	4	SLE Q	-54560.10	139.34	0.00	21.84	311.09
	3P	2	SLE R	-64668.10	401.46	0.00	29.63	396.78
	3P	4	SLE Q	-54198.30	331.00	0.00	24.75	331.89

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	4063.67	2.50	23060.50	45760.30	5.675
	2P	1	4589.85	2.50	23060.50	45760.30	5.024

Numero del nucleo n. 695

Nodi: -1679 -1680 -1681

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	-84268.50	282.39	0.00	-381658.00	4471.40	0.00	4.529
	2P	1	SLU	-81359.80	-280.65	0.00	-381658.00	-4409.14	0.00	4.691
	3P	1	SLU	-78732.80	375.21	0.00	-381658.00	4352.92	0.00	4.848

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm>	σ _t <daN/cm>
	1P	2	SLE R	-60654.40	202.65	0.00	28.19	395.68
	1P	4	SLE Q	-50862.60	176.31	0.00	23.75	332.66
	2T	2	SLE R	-58137.80	355.88	0.00	29.90	400.88
	2T	4	SLE Q	-48682.50	294.57	0.00	24.97	335.22
	3P	2	SLE R	-56626.20	271.53	0.00	27.78	380.42
	3P	4	SLE Q	-47414.10	233.20	0.00	23.37	319.31

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	79.94	2.50	20417.40	40515.40	255.394
	2T	1	114.62	2.50	20417.40	40515.40	178.124

Numero del nucleo n. 697

Nodi: -1679 -1688 -1694 586

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	-89854.70	391.12	0.00	-429421.00	4915.59	0.00	4.779
2	P	1	SLU	-91020.30	194.22	0.00	-429421.00	4940.57	0.00	4.718
3	P	1	SLU	-90078.50	-571.09	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>	σ _c <daN/cmq>	σ _t <daN/cmq>
1	P	2	SLE R	-64693.00	0.00	-4140.92	28.29	421.45
1	P	4	SLE Q	-54381.90	0.00	-3355.87	23.63	352.10
2	T	2	SLE R	-65020.20	-189.01	0.00	26.39	373.46
2	P	2	SLE R	-65487.50	0.00	-2221.82	26.26	392.28
2	T	4	SLE Q	-54474.10	-160.37	0.00	22.14	313.13
3	P	2	SLE R	-64787.20	-407.02	0.00	29.76	398.09
3	P	4	SLE Q	-54304.40	-335.39	0.00	24.85	332.99

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	4325.36	2.50	23060.50	45760.10	5.331
2	T	1	5484.01	2.50	23060.50	45760.10	4.205

Numero del nucleo n. 703

Nodi: 586 -1700 587

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	-80739.10	1015.92	0.00	-80739.10	4395.86	0.00	4.327
2	T	1	SLU	-78613.90	-1024.01	0.00	-78613.90	-4350.33	0.00	4.248
3	P	1	SLU	-81676.40	-1007.39	0.00	-81676.40	-4415.94	0.00	4.384

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1	P	2	SLE R	-58103.40	704.83	0.00	36.10	447.32
1	P	4	SLE Q	-48891.50	506.09	0.00	28.83	364.77
2	T	2	SLE R	-56539.40	-721.67	0.00	35.77	440.07
2	T	4	SLE Q	-47437.80	-574.04	0.00	29.45	365.02
3	P	2	SLE R	-58739.90	-709.27	0.00	36.44	451.78
3	P	4	SLE Q	-49237.70	-564.14	0.00	30.00	374.64

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	575.29	2.50	20417.40	40515.40	35.491
2	T	1	628.72	2.50	20417.40	40515.40	32.475

Numero del nucleo n. 787

Nodi: -1759 -1767 -1773 -1780

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	-89905.60	562.62	0.00	-429421.00	4916.60	0.00	4.776

Relazione di calcolo

2T	1SLU	-90360.10	1155.32	0.00	-90360.10	4926.35	0.00	4.264
3P	1SLU	-78131.60	-450.05	0.00	-429421.00	-4655.16	0.00	5.496

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1P	2	SLE	R	-64668.10	401.46	0.00	29.63	396.78
1P	4	SLE	Q	-54198.30	331.00	0.00	24.75	331.89
2T	2	SLE	R	-64916.60	821.59	0.00	36.37	448.01
2T	4	SLE	Q	-54220.00	667.38	0.00	30.08	371.95
3P	2	SLE	R	-56236.10	-315.79	0.00	25.24	341.09
3P	2	SLE	R	-56236.10	0.00	-3149.74	24.05	358.51
3P	4	SLE	Q	-47241.20	-249.19	0.00	20.95	284.62

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		5819.84	2.50	23060.50	45760.30	3.962
2P	1		5732.20	2.50	23060.50	45760.30	4.023

Numero del nucleo n. 795

Nodi: -1757 -1758 -1759

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm ² >	Fctm <daN/cm ² >	Fcd <daN/cm ² >	Fcd (Tag) <daN/cm ² >	Fctd <daN/cm ² >	Fym <daN/cm ² >	Fyd <daN/cm ² >	Fyd (Tag) <daN/cm ² >
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		-78732.80	375.21	0.00	-381658.00	4352.92	0.00	4.848
2P	1	SLU		-75000.70	-271.77	0.00	-381658.00	-4272.92	0.00	5.089
3P	1	SLU		-72241.30	204.50	0.00	-381658.00	4211.71	0.00	5.283

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1P	2	SLE	R	-56626.20	271.53	0.00	27.78	380.42
1P	4	SLE	Q	-47414.10	233.20	0.00	23.37	319.31
2T	2	SLE	R	-53528.00	307.66	0.00	27.17	366.42
2T	4	SLE	Q	-44747.20	253.74	0.00	22.65	305.85
3P	2	SLE	R	-51942.60	151.24	0.00	23.74	335.87
3P	4	SLE	Q	-43504.40	133.01	0.00	20.00	282.15

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		501.31	2.50	20417.40	40515.40	40.728
2P	1		257.06	2.50	20417.40	40515.40	79.427

Numero del nucleo n. 797

Nodi: -1757 -1766 -1772 -1778

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm ² >	Fctm <daN/cm ² >	Fcd <daN/cm ² >	Fcd (Tag) <daN/cm ² >	Fctd <daN/cm ² >	Fym <daN/cm ² >	Fyd <daN/cm ² >	Fyd (Tag) <daN/cm ² >
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		-90078.50	-571.09	0.00	-429421.00	-4920.35	0.00	4.767
2T	1	SLU		-90872.20	-1264.39	0.00	-90872.20	-4937.37	0.00	3.905
3P	1	SLU		-77434.50	466.69	0.00	-429421.00	4638.84	0.00	5.546

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1P	2	SLE	R	-64787.20	-407.02	0.00	29.76	398.09
1P	4	SLE	Q	-54304.40	-335.39	0.00	24.85	332.99
2T	2	SLE	R	-65276.60	-897.49	0.00	37.70	458.98
2T	4	SLE	Q	-54537.40	-733.94	0.00	31.25	381.58

Relazione di calcolo

3P	2	SLE R	-55746.60	328.33	0.00	25.26	339.94
3P	2	SLE R	-55746.60	0.00	-3258.84	24.01	357.77
3P	4	SLE Q	-46818.60	259.66	0.00	20.96	283.59

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	6701.65	2.50	23060.50	45760.10	3.441	
2P	1	6334.76	2.50	23060.50	45760.10	3.640	

Numero del nucleo n. 803

Nodi: -1778 -1779 -1780

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	-81676.40	-1007.39	0.00	-81676.40	-4415.94	0.00	4.384	
2T	1	SLU	-80113.00	-3567.42	0.00	-80113.00	-4382.48	0.00	1.228	
3P	1	SLU	-71751.20	1378.57	0.00	-71751.20	4200.21	0.00	3.047	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1P	2	SLE R	-58739.90	-709.27	0.00	36.44	451.78	
1P	4	SLE Q	-49237.70	-564.14	0.00	30.00	374.64	
2T	2	SLE R	-57572.30	-2501.54	0.00	78.78	702.78	
2T	4	SLE Q	-48121.80	-1950.08	0.00	60.93	566.88	
3P	2	SLE R	-51645.00	961.53	0.00	38.06	442.39	
3P	4	SLE Q	-43424.20	724.90	0.00	30.51	360.80	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	28.87	2.50	20417.40	40515.40	707.207	
2P	1	859.70	2.50	20417.40	40515.40	23.750	

Numero del nucleo n. 887

Nodi: -2446 -2454 -2460 787

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	-78131.60	-450.05	0.00	-429421.00	-4655.16	0.00	5.496	
2P	1	SLU	-79549.10	-138.02	0.00	-429421.00	-4688.40	0.00	5.398	
3P	1	SLU	-78280.60	569.51	0.00	-429421.00	4658.69	0.00	5.486	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1P	2	SLE R	-56236.10	-315.79	0.00	25.24	341.09	
1P	2	SLE R	-56236.10	0.00	-3149.74	24.05	358.51	
1P	4	SLE Q	-47241.20	-249.19	0.00	20.95	284.62	
2T	2	SLE R	-56728.40	145.56	0.00	22.72	323.53	
2P	2	SLE R	-57195.70	0.00	-1370.43	22.24	332.67	
2T	4	SLE Q	-47482.00	125.65	0.00	19.08	271.25	
3P	2	SLE R	-56262.90	403.94	0.00	26.64	351.70	
3P	4	SLE Q	-47111.30	334.91	0.00	22.26	294.10	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	2821.89	2.50	23060.50	45760.30	8.172	
2P	1	3596.15	2.50	23060.50	45760.30	6.413	

Nodi: -2444 -2445 -2446

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.
1	P	1	SLU	-72241.30	204.50	0.00	-381658.00	4211.71	0.00	5.283
2	P	1	SLU	-70158.90	-176.49	0.00	-381658.00	-4162.86	0.00	5.440
3	P	1	SLU	-69228.50	160.29	0.00	-381658.00	4141.05	0.00	5.513

Stato limite ultimo - Verifiche a taglio							
Liv.	Pos.	CC	Vsdu <da>n	ctgθ	VRsd <da>n	VRcd <da>n	Sic.
	1P	1	637.76	2.50	20417.40	40515.40	32.014
	2T	1	578.00	2.50	20417.40	40515.40	35.324

Nodi: -2444 -2453 -2459 786

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.
1	P	1	SLU	-77434.50	466.69	0.00	-429421.00	4638.84	0.00	5.546
2	P	1	SLU	-78574.60	121.94	0.00	-429421.00	4665.64	0.00	5.465
3	P	1	SLU	-77551.30	-491.27	0.00	-429421.00	-4641.65	0.00	5.537

Stato limite ultimo - Verifiche a taglio							
Liv.	Pos.	CC	Vsdu <dan>	ctgθ	VRsd <dan>	VRcd <dan>	Sic.
	1P	1	2299.22	2.50	23060.50	45760.10	10.030
	2P	1	3525.06	2.50	23060.50	45760.10	6.542

Nodi: 786 -2465 787

[illegible]

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	-71751.20	1378.57	0.00	-71751.20	4200.21	0.00	3.047
2	T	1	SLU	-68443.70	-1057.80	0.00	-68443.70	-4122.62	0.00	3.897
3	P	1	SLU	-69911.80	-1106.80	0.00	-69911.80	-4157.07	0.00	3.756

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	2	SLE R	-51645.00	961.53	0.00	38.06	442.39
1	P	4	SLE Q	-43424.20	724.90	0.00	30.51	360.80
2	T	2	SLE R	-49278.60	-754.20	0.00	33.41	400.29
2	T	4	SLE Q	-41308.40	-605.89	0.00	27.54	332.03
3	P	2	SLE R	-50284.90	-792.22	0.00	34.49	411.49
3	P	4	SLE Q	-42050.70	-640.86	0.00	28.46	341.22

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	346.51	2.50	20417.40	40515.40	58.923
2	P	1	416.78	2.50	20417.40	40515.40	48.989

Numero del nucleo n. 987

Nodi: -2524 -2532 -2538 -2545

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm ² >	Fctm <daN/cm ² >	Fcd <daN/cm ² >	Fcd (Tag) <daN/cm ² >	Fctd <daN/cm ² >	Fym <daN/cm ² >	Fyd <daN/cm ² >	Fyd (Tag) <daN/cm ² >
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	-78280.60	569.51	0.00	-429421.00	4658.69	0.00	5.486
2	T	1	SLU	-78783.10	1166.74	0.00	-78783.10	4670.46	0.00	4.003
3	P	1	SLU	-65562.40	-637.16	0.00	-429421.00	-4358.69	0.00	6.550

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	2	SLE R	-56262.90	403.94	0.00	26.64	351.70
1	P	4	SLE Q	-47111.30	334.91	0.00	22.26	294.10
2	T	2	SLE R	-56549.20	827.16	0.00	33.45	403.50
2	T	4	SLE Q	-47158.30	675.00	0.00	27.66	334.74
3	P	2	SLE R	-47181.30	-449.43	0.00	24.10	308.07
3	P	2	SLE R	-47181.30	0.00	-3953.07	21.76	323.63
3	P	4	SLE Q	-39600.70	-357.45	0.00	19.91	256.23

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1973.76	2.50	23060.50	45760.30	11.684
2	P	1	6910.61	2.50	23060.50	45760.30	3.337

Numero del nucleo n. 995

Nodi: -2522 -2523 -2524

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm ² >	Fctm <daN/cm ² >	Fcd <daN/cm ² >	Fcd (Tag) <daN/cm ² >	Fctd <daN/cm ² >	Fym <daN/cm ² >	Fyd <daN/cm ² >	Fyd (Tag) <daN/cm ² >
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	-69228.50	160.29	0.00	-381658.00	4141.05	0.00	5.513
2	P	1	SLU	-66320.20	-45.13	0.00	-381658.00	-4072.77	0.00	5.755
3	P	1	SLU	-63095.10	33.77	0.00	-381658.00	3996.91	0.00	6.049

Stato limite d'esercizio - Verifiche tensionali

Relazione di calcolo

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
1P	2	SLE	R	-49730.30	105.97	0.00	22.04	316.38
1P	4	SLE	Q	-41631.20	86.24	0.00	18.40	264.52
2T	2	SLE	R	-47279.60	183.84	0.00	22.43	311.89
2T	4	SLE	Q	-39555.60	146.38	0.00	18.63	259.95
3P	2	SLE	R	-45363.90	23.61	0.00	18.80	278.83
3P	2	SLE	R	-45363.90	0.00	175.70	18.65	279.54
3P	4	SLE	Q	-38012.80	24.59	0.00	15.84	234.29

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1046.34	2.50	20417.40	40515.40	19.513
2	T	1	147.95	2.50	20417.40	40515.40	137.999

Numero del nucleo n. 997

Nodi: -2522 -2531 -2537 -2543

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	-77551.30	-491.27	0.00	-429421.00	-4641.65	0.00	5.537
2	T	1	SLU	-78453.30	-1152.60	0.00	-78453.30	-4662.86	0.00	4.046
3	P	1	SLU	-64876.50	719.96	0.00	-64876.50	4341.58	0.00	6.030

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm>	σ_f <daN/cm>
1P	2	SLE	R	-55764.10	-352.09	0.00	25.64	342.86
1P	4	SLE	Q	-46667.30	-286.82	0.00	21.34	286.00
2T	2	SLE	R	-56324.10	-819.91	0.00	33.25	401.43
2T	4	SLE	Q	-46961.60	-666.33	0.00	27.45	332.65
3P	2	SLE	R	-46687.40	507.99	0.00	24.85	312.37
3P	2	SLE	R	-46687.40	0.00	-4102.40	21.77	323.58
3P	4	SLE	Q	-39193.10	406.55	0.00	20.54	259.86

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2963.79	2.50	23060.50	45760.10	7.781
2	T	1	7303.85	2.50	23060.50	45760.10	3.157

Numero del nucleo n. 1003

Nodi: -2543 -2544 -2545

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	-69911.80	-1106.80	0.00	-69911.80	-4157.07	0.00	3.756
2	T	1	SLU	-67368.40	-3858.74	0.00	-67368.40	-4097.37	0.00	1.062
3	P	1	SLU	-59256.40	1715.26	0.00	-59256.40	3906.63	0.00	2.278

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm>	σ_f <daN/cm>
1P	2	SLE	R	-50284.90	-792.22	0.00	34.49	411.49
1P	4	SLE	Q	-42050.70	-640.86	0.00	28.46	341.22
2T	2	SLE	R	-48361.50	-2714.70	0.00	90.13	717.73
2T	4	SLE	Q	-40257.00	-2131.55	0.00	69.81	538.58
3P	2	SLE	R	-42611.70	1194.64	0.00	39.03	420.29
3P	4	SLE	Q	-35738.40	918.87	0.00	30.98	340.47

Relazione di calcolo

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	279.86	2.50	20417.40	40515.40	72.955
2P		1	245.55	2.50	20417.40	40515.40	83.150

Numero del nucleo n. 1087

Nodi: -3211 -3219 -3225 987

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-65562.40	-637.16	0.00	-429421.00	-4358.69	0.00	6.550
2P		1	SLU	-66841.00	108.68	0.00	-429421.00	4389.71	0.00	6.425
3P		1	SLU	-65150.50	353.94	0.00	-429421.00	4348.28	0.00	6.591

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_f <daN/cm^q>
1P		2	SLE R	-47181.30	-449.43	0.00	24.10	308.07
1P		2	SLE R	-47181.30	0.00	-3953.07	21.76	323.63
1P		4	SLE Q	-39600.70	-357.45	0.00	19.91	256.23
2P		2	SLE R	-48049.90	0.00	-2094.60	19.83	295.92
2P		4	SLE Q	-40219.60	0.00	-1699.07	16.53	246.75
3P		2	SLE R	-46815.50	250.03	0.00	20.81	282.42
3P		4	SLE Q	-39140.80	200.07	0.00	17.25	235.06

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	3459.27	2.50	23060.50	45760.30	6.666
2P		1	4931.21	2.50	23060.50	45760.30	4.676

Numero del nucleo n. 1095

Nodi: -3209 -3210 -3211

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-63095.10	33.77	0.00	-381658.00	3996.91	0.00	6.049
2P		1	SLU	-59984.40	77.02	0.00	-381658.00	3923.69	0.00	6.363
3P		1	SLU	-57685.30	-70.49	0.00	-381658.00	-3868.23	0.00	6.616

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_f <daN/cm^q>
1P		2	SLE R	-45363.90	23.61	0.00	18.80	278.83
1P		2	SLE R	-45363.90	0.00	175.70	18.65	279.54
1P		4	SLE Q	-38012.80	24.59	0.00	15.84	234.29
2T		2	SLE R	-42706.80	80.15	0.00	18.73	270.24
2T		4	SLE Q	-35688.60	62.42	0.00	15.57	225.22
3P		2	SLE R	-41442.50	-49.50	0.00	17.67	258.46
3P		4	SLE Q	-34632.60	-37.53	0.00	14.70	215.48

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	516.98	2.50	20417.40	40515.40	39.494
2P		1	570.36	2.50	20417.40	40515.40	35.797

Numero del nucleo n. 1097

Relazione di calcolo

Nodi: -3209 -3218 -3224 986

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	-64876.50	719.96	0.00	-64876.50	4341.58	0.00	6.030
2	P	1	SLU	-66909.80	-104.14	0.00	-429421.00	-4391.45	0.00	6.418
3	P	1	SLU	-66045.40	-331.94	0.00	-429421.00	-4370.94	0.00	6.502

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	2	SLE R	-46687.40	507.99	0.00	24.85	312.37
1	P	2	SLE R	-46687.40	0.00	-4102.40	21.77	323.58
1	P	4	SLE Q	-39193.10	406.55	0.00	20.54	259.86
2	P	2	SLE R	-48091.30	0.00	-2307.64	20.10	299.86
2	P	4	SLE Q	-40250.20	0.00	-1869.98	16.75	249.90
3	P	2	SLE R	-47445.50	-234.22	0.00	20.78	283.95
3	P	4	SLE Q	-39651.70	-186.95	0.00	17.23	236.26

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	3481.15	2.50	23060.50	45760.10	6.624
2	T	1	5171.44	2.50	23060.50	45760.10	4.459

Numero del nucleo n. 1103

Nodi: 986 -3230 987

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	-59256.40	1715.26	0.00	-59256.40	3906.63	0.00	2.278
2	P	1	SLU	-56762.10	-337.97	0.00	-381658.00	-3844.97	0.00	6.724
3	P	1	SLU	-59322.80	-418.35	0.00	-381658.00	-3908.10	0.00	6.434

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	2	SLE R	-42611.70	1194.64	0.00	39.03	420.29
1	P	4	SLE Q	-35738.40	918.87	0.00	30.98	340.47
2	T	2	SLE R	-40402.90	-319.17	0.00	22.06	288.20
2	T	4	SLE Q	-33793.00	-251.54	0.00	18.17	238.99
3	P	2	SLE R	-42612.80	-294.51	0.00	22.51	298.33
3	P	4	SLE Q	-35591.90	-232.34	0.00	18.56	247.35

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	682.92	2.50	20417.40	40515.40	29.897
2	T	1	766.77	2.50	20417.40	40515.40	26.628

Numero del nucleo n. 1187

Nodi: -3289 -3297 -3303 -3310

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

			<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1P	1	SLU	-65150.50	353.94	0.00	-429421.00	4348.28	0.00	6.591
2T	1	SLU	-65571.40	1055.98	0.00	-65571.40	4358.91	0.00	4.128
3P	1	SLU	-52175.20	-777.29	0.00	-52175.20	-4020.86	0.00	5.173

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1P	2	SLE	R	-46815.50	250.03	0.00	20.81	282.42
1P	4	SLE	Q	-39140.80	200.07	0.00	17.25	235.06
2T	2	SLE	R	-47036.80	748.67	0.00	28.78	342.83
2T	2	SLE	R	-47036.80	0.00	5218.00	23.24	344.91
2T	4	SLE	Q	-39146.60	606.32	0.00	23.69	283.33
3P	2	SLE	R	-37530.70	-550.02	0.00	22.22	267.92
3P	4	SLE	Q	-31479.60	-442.10	0.00	18.33	222.44

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		6211.59	2.50	23060.50	45760.30	3.712
2P	1		6802.55	2.50	23060.50	45760.30	3.390

Numero del nucleo n. 1195

Nodi: -3287 -3288 -3289

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		-57685.30	-70.49	0.00	-381658.00	-3868.23	0.00	6.616
2P	1	SLU		-53857.50	135.93	0.00	-381658.00	3771.89	0.00	7.086
3P	1	SLU		-51112.40	-111.20	0.00	-381658.00	-3702.64	0.00	7.467

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1P	2	SLE	R	-41442.50	-49.50	0.00	17.67	258.46
1P	4	SLE	Q	-34632.60	-37.53	0.00	14.70	215.48
2T	2	SLE	R	-38283.50	110.28	0.00	17.48	247.39
2T	4	SLE	Q	-31933.40	88.90	0.00	14.52	205.94
3P	2	SLE	R	-36719.20	-77.31	0.00	16.25	233.47
3P	4	SLE	Q	-30698.30	-57.54	0.00	13.46	194.24

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		542.63	2.50	20417.40	40515.40	37.627
2P	1		54.94	2.50	20417.40	40515.40	371.618

Numero del nucleo n. 1197

Nodi: -3287 -3296 -3302 -3308

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		-66045.40	-331.94	0.00	-429421.00	-4370.94	0.00	6.502
2T	1	SLU		-66930.60	-1103.97	0.00	-66930.60	-4391.91	0.00	3.978
3P	1	SLU		-52650.30	793.52	0.00	-52650.30	4032.95	0.00	5.082

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1P	2	SLE	R	-47445.50	-234.22	0.00	20.78	283.95
1P	4	SLE	Q	-39651.70	-186.95	0.00	17.23	236.26

Relazione di calcolo

2T	2SLE R	-48000.20	-782.71	0.00	29.67	352.08
2T	2SLE R	-48000.20	0.00	5506.20	23.94	355.14
2T	4SLE Q	-39929.40	-633.52	0.00	24.40	290.79
3P	2SLE R	-37866.50	561.29	0.00	22.52	271.08
3P	4SLE Q	-31756.40	451.63	0.00	18.58	225.07

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	6508.45	2.50	23060.50	45760.10	3.543	
2P	1	7197.92	2.50	23060.50	45760.10	3.204	

Numero del nucleo n. 1203

Nodi: -3308 -3309 -3310

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 <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-59322.80	-418.35	0.00	-381658.00	-3908.10	0.00	6.434	
2T	1	SLU	-57797.20	-3662.14	0.00	-57797.20	-3870.95	0.00	1.057	
3P	1	SLU	-49158.90	2025.94	0.00	-49158.90	3653.34	0.00	1.803	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1	P	2	SLE R	-42612.80	-294.51	0.00	22.51	298.33
1	P	4	SLE Q	-35591.90	-232.34	0.00	18.56	247.35
2	T	2	SLE R	-41467.70	-2570.35	0.00	87.32	857.37
2	T	4	SLE Q	-34479.60	-2014.22	0.00	67.50	588.33
3	P	2	SLE R	-35326.70	1417.58	0.00	44.26	414.05
3	P	4	SLE Q	-29621.10	1103.43	0.00	34.37	334.14

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	762.15	2.50	20417.40	40515.40	26.789	
2P	1	450.31	2.50	20417.40	40515.40	45.341	

Numero del nucleo n. 1287

Nodi: -3976 -3984 -3990 1187

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 <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-52175.20	-777.29	0.00	-52175.20	-4020.86	0.00	5.173	
2P	1	SLU	-54174.00	138.09	0.00	-429421.00	4071.50	0.00	7.927	
3P	1	SLU	-53003.70	371.69	0.00	-429421.00	4041.88	0.00	8.102	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	2	SLE R	-37530.70	-550.02	0.00	22.22	267.92
1	P	4	SLE Q	-31479.60	-442.10	0.00	18.33	222.44
2	P	2	SLE R	-38910.80	0.00	-1783.48	16.16	241.16
2	P	4	SLE Q	-32514.80	0.00	-1428.55	13.43	200.44
3	P	2	SLE R	-38047.80	262.53	0.00	17.85	236.57
3	P	4	SLE Q	-31738.70	210.47	0.00	14.76	196.33

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	2140.25	2.50	23060.50	44545.20	10.775	
2P	1	3759.65	2.50	23060.50	44849.30	6.134	

Numero del nucleo n. 1295

Nodi: -3974 -3975 -3976

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-51112.40	-111.20	0.00	-381658.00	-3702.64	0.00	7.467
2	P	1	SLU	-48619.70	126.49	0.00	-381658.00	3639.65	0.00	7.850
3	P	1	SLU	-47089.20	-104.23	0.00	-381658.00	-3600.87	0.00	8.105

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_ε <daN/cm^q>
1	P	2	SLE R	-36719.20	-77.31	0.00	16.25	233.47
1	P	4	SLE Q	-30698.30	-57.54	0.00	13.46	194.24
2	P	2	SLE R	-34923.50	87.82	0.00	15.71	223.97
2	T	2	SLE R	-34508.80	90.30	0.00	15.59	221.78
2	P	4	SLE Q	-29168.50	66.69	0.00	13.01	186.17
3	P	2	SLE R	-33799.10	-73.26	0.00	15.00	215.19
3	P	4	SLE Q	-28168.30	-57.43	0.00	12.44	178.85

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	311.88	2.50	20417.40	40167.90	65.466
2	P	1	316.33	2.50	20417.40	39789.70	64.546

Numero del nucleo n. 1297

Nodi: -3974 -3983 -3989 1186

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-52650.30	793.52	0.00	-52650.30	4032.95	0.00	5.082
2	P	1	SLU	-54288.60	-142.01	0.00	-429421.00	-4074.47	0.00	7.910
3	P	1	SLU	-52867.20	-377.88	0.00	-429421.00	-4038.42	0.00	8.123

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_f <daN/cm^q>
1	P	2	SLE R	-37866.50	561.29	0.00	22.52	271.08
1	P	4	SLE Q	-31756.40	451.63	0.00	18.58	225.07
2	P	2	SLE R	-38989.60	0.00	-1983.06	16.43	245.07
2	P	4	SLE Q	-32583.70	0.00	-1583.72	13.64	203.52
3	P	2	SLE R	-37946.70	-267.00	0.00	17.88	236.56
3	P	4	SLE Q	-31661.20	-214.00	0.00	14.78	196.34

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2042.64	2.50	23060.50	44617.30	11.290
2	P	1	3926.66	2.50	23060.50	44866.60	5.873

Numero del nucleo n. 1303

Nodi: 1186 -3995 1187

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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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	-49158.90	2025.94	0.00	-49158.90	3653.34	0.00	1.803
2	T	1	SLU	-45182.20	-484.43	0.00	-45182.20	-3552.47	0.00	7.333
3	P	1	SLU	-47550.40	-468.31	0.00	-47550.40	-3612.60	0.00	7.714

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_t <daN/cm ² >
1	P	2	SLE R	-35326.70	1417.58	0.00	44.26	414.05
1	P	4	SLE Q	-29621.10	1103.43	0.00	34.37	334.14
2	T	2	SLE R	-32440.50	-339.97	0.00	19.20	242.59
2	T	4	SLE Q	-27109.60	-268.97	0.00	15.78	200.70
3	P	2	SLE R	-34121.50	-329.58	0.00	19.70	251.42
3	P	4	SLE Q	-28459.10	-262.00	0.00	16.20	207.97

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	51.34	2.50	20417.40	39871.50	397.669
2	T	1	14.01	2.50	20417.40	39268.10	*****

Numero del nucleo n. 1387

Nodi: -4054 -4062 -4068 -4075

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm ² >	Fctm <daN/cm ² >	Fcd <daN/cm ² >	Fcd (Tag) <daN/cm ² >	Fctd <daN/cm ² >	Fym <daN/cm ² >	Fyd <daN/cm ² >	Fyd (Tag) <daN/cm ² >
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	-53003.70	371.69	0.00	-429421.00	4041.88	0.00	8.102
2	T	1	SLU	-53779.60	1098.29	0.00	-53779.60	4061.50	0.00	3.698
3	P	1	SLU	-39507.10	-832.67	0.00	-39507.10	-3689.10	0.00	4.430

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_t <daN/cm ² >
1	P	2	SLE R	-38047.80	262.53	0.00	17.85	236.57
1	P	4	SLE Q	-31738.70	210.47	0.00	14.76	196.33
2	T	2	SLE R	-38523.60	778.32	0.00	26.19	300.39
2	T	4	SLE Q	-31951.80	630.00	0.00	21.47	247.30
3	P	2	SLE R	-28399.90	-589.15	0.00	19.55	223.27
3	P	4	SLE Q	-23780.70	-474.23	0.00	16.07	184.69

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	5225.86	2.50	23060.50	44671.20	4.413
2	P	1	7256.93	2.50	23060.50	44881.70	3.178

Numero del nucleo n. 1395

Nodi: -4052 -4053 -4054

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm ² >	Fctm <daN/cm ² >	Fcd <daN/cm ² >	Fcd (Tag) <daN/cm ² >	Fctd <daN/cm ² >	Fym <daN/cm ² >	Fyd <daN/cm ² >	Fyd (Tag) <daN/cm ² >
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	-47089.20	-104.23	0.00	-381658.00	-3600.87	0.00	8.105
2	P	1	SLU	-43384.50	182.84	0.00	-381658.00	3506.91	0.00	8.797
3	P	1	SLU	-40514.70	-141.10	0.00	-381658.00	-3431.82	0.00	9.420

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ_c	σ_t
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Relazione di calcolo

				<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
1P	2	SLE R	-33799.10	-73.26	0.00		15.00	215.19
1P	4	SLE Q	-28168.30	-57.43	0.00		12.44	178.85
2P	2	SLE R	-31148.60	128.73	0.00		14.91	206.50
2P	4	SLE Q	-25962.80	101.42	0.00		12.33	171.33
3P	2	SLE R	-29088.10	-98.67	0.00		13.54	189.96
3P	4	SLE Q	-24253.90	-76.49	0.00		11.19	157.62

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	293.68	2.50	20417.40	39557.40	69.522	
2P	1	317.33	2.50	20417.40	38995.30	64.340	

Numero del nucleo n. 1397

Nodi: -4052 -4061 -4067 -4073

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmqs>	Fctm <daN/cmqs>	Fcd <daN/cmqs>	Fcd (Tag) <daN/cmqs>	Fctd <daN/cmqs>	Fym <daN/cmqs>	Fyd <daN/cmqs>	Fyd (Tag) <daN/cmqs>
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	-52867.20	-377.88	0.00	-429421.00	-4038.42	0.00	8.123	
2T	1	SLU	-53733.30	-1168.82	0.00	-53733.30	-4060.37	0.00	3.474	
3P	1	SLU	-39121.20	849.45	0.00	-39121.20	3678.87	0.00	4.331	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cmqs>	σt <daN/cmqs>
1P	2	SLE R	-37946.70	-267.00	0.00	17.88	236.56	
1P	4	SLE Q	-31661.20	-214.00	0.00	14.78	196.34	
2T	2	SLE R	-38485.80	-828.60	0.00	26.97	306.16	
2T	4	SLE Q	-31925.00	-670.57	0.00	22.11	251.98	
3P	2	SLE R	-28117.40	601.04	0.00	19.64	223.16	
3P	4	SLE Q	-23564.20	484.05	0.00	16.14	184.69	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	5388.26	2.50	23060.50	44650.30	4.280	
2T	1	7536.10	2.50	23060.50	44782.10	3.060	

Numero del nucleo n. 1403

Nodi: -4073 -4074 -4075

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmqs>	Fctm <daN/cmqs>	Fcd <daN/cmqs>	Fcd (Tag) <daN/cmqs>	Fctd <daN/cmqs>	Fym <daN/cmqs>	Fyd <daN/cmqs>	Fyd (Tag) <daN/cmqs>
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	-47550.40	-468.31	0.00	-47550.40	-3612.60	0.00	7.714	
2T	1	SLU	-45565.90	-3977.93	0.00	-45565.90	-3562.20	0.00	0.895	
3P	1	SLU	-36959.00	2264.85	0.00	-36959.00	3337.50	0.00	1.474	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cmqs>	σt <daN/cmqs>
1P	2	SLE R	-34121.50	-329.58	0.00	19.70	251.42	
1P	4	SLE Q	-28459.10	-262.00	0.00	16.20	207.97	
2T	2	SLE R	-32643.80	-2792.16	0.00	100.82	1534.52	
2T	4	SLE Q	-27074.50	-2200.81	0.00	78.84	1138.84	
3P	2	SLE R	-26522.20	1585.17	0.00	53.40	488.31	
3P	4	SLE Q	-22218.90	1241.70	0.00	41.18	324.48	

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	13.26	2.50	20417.40	39627.40	*****
2T	1	596.55	2.50	20417.40	39326.30	34.226

Numero del nucleo n. 1487

Nodi: -4741 -4749 -4755 1387

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	-39507.10	-832.67	0.00	-39507.10	-3689.10	0.00	4.430
2P		1	SLU	-41376.90	158.90	0.00	-429421.00	3738.91	0.00	10.378
3P		1	SLU	-39978.20	405.97	0.00	-39978.20	3701.62	0.00	9.118

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1P		2	SLE R	-28399.90	-589.15	0.00	19.55	223.27
1P		4	SLE Q	-23780.70	-474.23	0.00	16.07	184.69
2P		2	SLE R	-29688.30	0.00	-2171.34	13.31	198.13
2P		4	SLE Q	-24738.70	0.00	-1736.47	11.00	163.83
3P		2	SLE R	-28663.90	287.02	0.00	14.86	188.82
3P		4	SLE Q	-23828.80	230.59	0.00	12.23	156.02

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	2751.81	2.50	23060.50	42618.10	8.380
2P		1	4620.40	2.50	23060.50	42902.50	4.991

Numero del nucleo n. 1495

Nodi: -4739 -4740 -4741

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	-40514.70	-141.10	0.00	-381658.00	-3431.82	0.00	9.420
2P		1	SLU	-37561.80	164.30	0.00	-381658.00	3353.54	0.00	10.161
3P		1	SLU	-35610.50	-94.54	0.00	-381658.00	-3301.54	0.00	10.717

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1P		2	SLE R	-29088.10	-98.67	0.00	13.54	189.96
1P		4	SLE Q	-24253.90	-76.49	0.00	11.19	157.62
2P		2	SLE R	-26978.70	114.44	0.00	12.97	179.25
2P		4	SLE Q	-22486.40	88.81	0.00	10.69	148.52
3P		2	SLE R	-25567.50	-65.39	0.00	11.52	164.11
3P		4	SLE Q	-21271.50	-51.10	0.00	9.53	136.10

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	68.89	2.50	20417.40	38559.80	296.361
2P		1	57.39	2.50	20417.40	38111.80	355.745

Numero del nucleo n. 1497

Nodi: -4739 -4748 -4754 1386

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/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 <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-39121.20	849.45	0.00	-39121.20	3678.87	0.00	4.331
2	P	1	SLU	-41101.70	-156.02	0.00	-429421.00	-3731.61	0.00	10.448
3	P	1	SLU	-39885.40	-401.83	0.00	-39885.40	-3699.23	0.00	9.206

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1	P	2	SLE R	-28117.40	601.04	0.00	19.64	223.16
1	P	4	SLE Q	-23564.20	484.05	0.00	16.14	184.69
2	P	2	SLE R	-29482.40	0.00	-2329.64	13.43	199.78
2	P	4	SLE Q	-24589.00	0.00	-1862.27	11.10	165.22
3	P	2	SLE R	-28585.10	-283.91	0.00	14.78	188.03
3	P	4	SLE Q	-23786.60	-228.28	0.00	12.18	155.52

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2724.37	2.50	23060.50	42559.30	8.465
2	T	1	4792.84	2.50	23060.50	42768.20	4.811

Numero del nucleo n. 1503

Nodi: 1386 -4760 1387

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 <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-36959.00	2264.85	0.00	-36959.00	3337.50	0.00	1.474
2	T	1	SLU	-33229.20	-505.85	0.00	-33229.20	-3238.05	0.00	6.401
3	P	1	SLU	-36041.40	-469.98	0.00	-36041.40	-3313.04	0.00	7.049

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1	P	2	SLE R	-26522.20	1585.17	0.00	53.40	488.31
1	P	4	SLE Q	-22218.90	1241.70	0.00	41.18	324.48
2	P	2	SLE R	-24214.20	-354.28	0.00	16.13	194.51
2	T	2	SLE R	-23799.50	-355.32	0.00	15.98	192.13
2	P	4	SLE Q	-20239.60	-275.12	0.00	13.10	159.78
3	P	2	SLE R	-25783.10	-330.64	0.00	16.34	200.89
3	P	4	SLE Q	-21402.70	-264.12	0.00	13.38	165.38

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	202.18	2.50	20417.40	38020.30	100.987
2	P	1	243.25	2.50	20417.40	37536.20	83.936

Numero del nucleo n. 1587

Nodi: -4819 -4827 -4833 -4840

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 <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-39978.20	405.97	0.00	-39978.20	3701.62	0.00	9.118
2	T	1	SLU	-40822.80	1158.69	0.00	-40822.80	3724.22	0.00	3.214
3	P	1	SLU	-26002.50	-885.81	0.00	-26002.50	-3326.03	0.00	3.755

Relazione di calcolo

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
	1P		2SLE R	-28663.90	287.02	0.00	14.86	188.82
	1P		4SLE Q	-23828.80	230.59	0.00	12.23	156.02
	2T		2SLE R	-29190.40	821.26	0.00	23.81	256.13
	2T		4SLE Q	-24078.20	664.43	0.00	19.38	209.57
	3P		2SLE R	-18683.10	-626.68	0.00	17.46	177.61
	3P		4SLE Q	-15587.50	-505.61	0.00	14.16	145.81

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 6101.75	2.50	23060.50	42689.80	3.779
	2T		1 7007.14	2.50	23060.50	42818.30	3.291

Numero del nucleo n. 1595

Nodi: -4817 -4818 -4819

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		1SLU	-35610.50	-94.54	0.00	-381658.00	-3301.54	0.00	10.717
	2P		1SLU	-31669.40	182.69	0.00	-381658.00	3196.29	0.00	12.051
	3P		1SLU	-29360.10	-181.92	0.00	-381658.00	-3134.41	0.00	12.999

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm>	σ _t <daN/cm>
	1P		2SLE R	-25567.50	-65.39	0.00	11.52	164.11
	1P		4SLE Q	-21271.50	-51.10	0.00	9.53	136.10
	2P		2SLE R	-22773.10	126.67	0.00	11.48	155.32
	2P		4SLE Q	-18959.80	99.81	0.00	9.46	128.56
	3P		2SLE R	-21132.90	-125.81	0.00	10.80	145.24
	3P		4SLE Q	-17597.50	-98.21	0.00	8.88	120.07

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 68.06	2.50	20417.40	37815.70	300.011
	2P		1 213.37	2.50	20417.40	37217.70	95.691

Numero del nucleo n. 1597

Nodi: -4817 -4826 -4832 -4838

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		1SLU	-39885.40	-401.83	0.00	-39885.40	-3699.23	0.00	9.206
	2T		1SLU	-40974.30	-1204.18	0.00	-40974.30	-3728.22	0.00	3.096
	3P		1SLU	-25899.10	899.34	0.00	-25899.10	3323.23	0.00	3.695

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm>	σ _t <daN/cm>
	1P		2SLE R	-28585.10	-283.91	0.00	14.78	188.03
	1P		4SLE Q	-23786.60	-228.28	0.00	12.18	155.52
	2T		2SLE R	-29279.70	-853.18	0.00	24.47	260.80
	2T		4SLE Q	-24182.10	-691.12	0.00	19.94	213.60
	3P		2SLE R	-18581.10	636.82	0.00	17.70	178.52
	3P		4SLE Q	-15553.20	513.26	0.00	14.33	146.70

Stato limite ultimo - Verifiche a taglio

Relazione di calcolo

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	6259.59	2.50	23060.50	42675.50	3.684
	2T	1	7203.57	2.50	23060.50	42841.20	3.201

Numero del nucleo n. 1603

Nodi: -4838 -4839 -4840

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	-36041.40	-469.98	0.00	-36041.40	-3313.04	0.00	7.049
	2T	1	SLU	-34001.90	-4183.22	0.00	-34001.90	-3258.62	0.00	0.779
	3P	1	SLU	-24748.00	2429.78	0.00	-24748.00	3010.40	0.00	1.239

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm>	σ _t <daN/cm>
	1P	2	SLE R	-25783.10	-330.64	0.00	16.34	200.89
	1P	4	SLE Q	-21402.70	-264.12	0.00	13.38	165.38
	2T	2	SLE R	-24243.20	-2935.83	0.00	110.39	2174.62
	2T	4	SLE Q	-19956.30	-2324.00	0.00	87.08	1677.26
	3P	2	SLE R	-17640.70	1702.69	0.00	62.52	1058.55
	3P	4	SLE Q	-14696.40	1342.73	0.00	48.95	791.77

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	248.70	2.50	20417.40	37881.10	82.097
	2P	1	409.83	2.50	20417.40	37653.40	49.819

Numero del nucleo n. 1687

Nodi: -5506 -5514 -5520 1587

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	-26002.50	-885.81	0.00	-26002.50	-3326.03	0.00	3.755
	2P	1	SLU	-28012.80	0.00	-3183.26	-28012.80	0.00	-47966.30	15.068
	3P	1	SLU	-26677.70	424.25	0.00	-26677.70	3344.49	0.00	7.883

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm>	σ _t <daN/cm>
	1P	2	SLE R	-18683.10	-626.68	0.00	17.46	177.61
	1P	4	SLE Q	-15587.50	-505.61	0.00	14.16	145.81
	2P	2	SLE R	-20072.00	0.00	-2286.37	9.99	148.22
	2P	4	SLE Q	-16625.70	0.00	-1846.11	8.22	121.94
	3P	2	SLE R	-19095.00	300.52	0.00	11.63	138.77
	3P	4	SLE Q	-15751.90	241.40	0.00	9.49	113.70

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	1657.42	2.50	23060.50	40563.80	13.914
	2T	1	3753.58	2.50	23060.50	40777.20	6.144

Numero del nucleo n. 1695

Nodi: -5504 -5505 -5506

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	-29360.10	-181.92	0.00	-381658.00	-3134.41	0.00	12.999
2	P	1	SLU	-27075.00	177.04	0.00	-381658.00	3072.98	0.00	14.096
3	P	1	SLU	-25762.50	-74.36	0.00	-381658.00	-3037.74	0.00	14.815

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	2	SLE R	-21132.90	-125.81	0.00	10.80	145.24
1	P	4	SLE Q	-17597.50	-98.21	0.00	8.88	120.07
2	P	2	SLE R	-19510.60	122.30	0.00	10.08	134.91
2	T	2	SLE R	-19095.80	125.19	0.00	9.97	132.78
2	P	4	SLE Q	-16220.70	95.27	0.00	8.27	111.31
3	P	2	SLE R	-18564.10	-47.03	0.00	8.36	119.10
3	P	4	SLE Q	-15378.50	-34.10	0.00	6.84	98.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	59.93	2.50	15313.10	36867.30	255.511
2	P	1	73.97	2.50	15313.10	36520.60	207.026

Numero del nucleo n. 1697

Nodi: -5504 -5513 -5519 1586

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	-25899.10	899.34	0.00	-25899.10	3323.23	0.00	3.695
2	P	1	SLU	-27899.60	0.00	-3290.35	-27899.60	0.00	-47923.80	14.565
3	P	1	SLU	-26639.80	-423.41	0.00	-26639.80	-3343.48	0.00	7.897

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	2	SLE R	-18581.10	636.82	0.00	17.70	178.52
1	P	4	SLE Q	-15553.20	513.26	0.00	14.33	146.70
2	P	2	SLE R	-19959.40	0.00	-2352.12	10.03	148.76
2	P	4	SLE Q	-16589.70	0.00	-1908.04	8.28	122.83
3	P	2	SLE R	-19029.60	-299.15	0.00	11.59	138.25
3	P	4	SLE Q	-15762.20	-241.38	0.00	9.49	113.76

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1502.37	2.50	23060.50	40547.90	15.349
2	T	1	3745.49	2.50	23060.50	40759.80	6.157

Numero del nucleo n. 1703

Nodi: 1586 -5525 1587

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	-24748.00	2429.78	0.00	-24748.00	3010.40	0.00	1.239
2	P	1	SLU	-20729.20	-578.21	0.00	-20729.20	-2900.87	0.00	5.017

Relazione di calcolo

3P	1SLU	-22343.30	-453.55	0.00	-22343.30	-2945.02	0.00	6.493
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Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1P	2	SLE R		-17640.70	1702.69	0.00	62.52	1058.55
1P	4	SLE Q		-14696.40	1342.73	0.00	48.95	791.77
2P	2	SLE R		-14731.80	-404.45	0.00	13.31	144.05
2P	4	SLE Q		-12234.50	-317.44	0.00	10.66	116.96
3P	2	SLE R		-15821.20	-317.29	0.00	12.07	138.56
3P	4	SLE Q		-13014.00	-251.93	0.00	9.76	112.77

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		148.32	2.50	20417.40	36167.50	137.660
2T	1		188.75	2.50	20417.40	35475.90	108.174

Numero del nucleo n. 1787

Nodi: -5585 -5593 -5599 -5606

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm ² >	Fctm <daN/cm ² >	Fcd <daN/cm ² >	Fcd (Tag) <daN/cm ² >	Fctd <daN/cm ² >	Fym <daN/cm ² >	Fyd <daN/cm ² >	Fyd (Tag) <daN/cm ² >
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		-26677.70	424.25	0.00	-26677.70	3344.49	0.00	7.883
2T	1	SLU		-27681.70	1163.88	0.00	-27681.70	3371.85	0.00	2.897
3P	1	SLU		-12624.00	-922.45	0.00	-12624.00	-2957.77	0.00	3.206

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1P	2	SLE R		-19095.00	300.52	0.00	11.63	138.77
1P	4	SLE Q		-15751.90	241.40	0.00	9.49	113.70
2T	2	SLE R		-19741.60	826.90	0.00	23.03	210.11
2T	4	SLE Q		-16086.20	666.37	0.00	18.53	170.24
3P	2	SLE R		-9052.02	-651.17	0.00	20.30	253.86
3P	4	SLE Q		-7443.92	-529.85	0.00	16.48	203.15

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cm ² >	A _{c eff} <cm ² >	σ_s <daN/cm ² >	ϵ_{sm}	Wk <mm>
3P	4	SLE Q		-7443.92	0.00	-5431.76	31.00	95.00	0.50	8.00	199.18	1.51	258.57	169.84	0.05	0.02
3P	3	SLE F		-7864.32	0.00	-5762.47	31.00	95.00	0.50	8.00	199.64	1.51	259.45	181.55	0.05	0.02

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		5092.75	2.50	23060.50	40666.50	4.528
2P	1		4498.04	2.50	23060.50	40911.60	5.127

Numero del nucleo n. 1795

Nodi: -5583 -5584 -5585

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm ² >	Fctm <daN/cm ² >	Fcd <daN/cm ² >	Fcd (Tag) <daN/cm ² >	Fctd <daN/cm ² >	Fym <daN/cm ² >	Fyd <daN/cm ² >	Fyd (Tag) <daN/cm ² >
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		-25762.50	-74.36	0.00	-381658.00	-3037.74	0.00	14.815
2T	1	SLU		-22181.50	348.40	0.00	-22181.50	2940.55	0.00	8.440
3P	1	SLU		-19322.40	-15.41	0.00	-381658.00	-2862.28	0.00	19.752

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ_c	σ_f
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Relazione di calcolo

				<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
1P	2	SLE R	-18564.10	-47.03	0.00		8.36	119.10
1P	4	SLE Q	-15378.50	-34.10	0.00		6.84	98.01
2T	2	SLE R	-16063.60	265.04	0.00		11.23	133.05
2T	4	SLE Q	-13252.00	221.92	0.00		9.32	110.20
3P	2	SLE R	-14030.30	0.00	-200.24		5.99	89.66
3P	4	SLE Q	-11644.30	0.00	-197.45		5.02	75.10

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		53.65	2.50	15313.10	36321.40	285.415
2T	1		273.50	2.50	15313.10	35778.10	55.990

Numero del nucleo n. 1797

Nodi: -5583 -5592 -5598 -5604

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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		-26639.80	-423.41	0.00	-26639.80	-3343.48	0.00	7.897
2T	1	SLU		-27809.90	-1227.96	0.00	-27809.90	-3375.31	0.00	2.749
3P	1	SLU		-12360.50	913.58	0.00	-12360.50	2950.55	0.00	3.230

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_t <daN/cm^q>
1P	2	SLE R		-19029.60	-299.15	0.00	11.59	138.25
1P	4	SLE Q		-15762.20	-241.38	0.00	9.49	113.76
2T	2	SLE R		-19775.10	-868.13	0.00	24.33	215.53
2T	4	SLE Q		-16214.40	-705.84	0.00	19.76	175.98
3P	2	SLE R		-8808.18	649.41	0.00	20.34	262.84
3P	4	SLE Q		-7361.95	520.46	0.00	16.17	197.39

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K₂	Φ_{eq}	Δ_{sm} <mm>	A_s <cm^q>	A_c eff <cm^q>	σ_s <daN/cm^q>	ε_{sm}	Wk <mm>
3P	4	SLE Q		-7361.95	0.00	-5358.83	31.00	95.00	0.50	8.00	198.90	1.51	258.05	166.82	0.05	0.02
3P	3	SLE F		-7736.53	0.00	-5682.51	31.00	95.00	0.50	8.00	199.90	1.51	259.94	179.82	0.05	0.02

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		5034.30	2.50	23060.50	40660.60	4.581
2P	1		4579.20	2.50	23060.50	40931.00	5.036

Numero del nucleo n. 1803

Nodi: -5604 -5605 -5606

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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		-22343.30	-453.55	0.00	-22343.30	-2945.02	0.00	6.493
2T	1	SLU		-19163.80	-4080.64	0.00	-19163.80	-2857.98	0.00	0.700
3P	1	SLU		-11123.50	2764.03	0.00	-11123.50	2636.22	0.00	0.954

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_t <daN/cm^q>
1P	2	SLE R		-15821.20	-317.29	0.00	12.07	138.56
1P	4	SLE Q		-13014.00	-251.93	0.00	9.76	112.77
2T	2	SLE R		-13401.50	-2853.13	0.00	110.86	2718.58
2T	4	SLE Q		-10826.00	-2253.80	0.00	87.50	2132.89

Relazione di calcolo

3P	2	SLE R	-7692.92	1957.09	0.00	76.49	1956.73
3P	4	SLE Q	-6300.47	1555.88	0.00	60.75	1544.24

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	194.41	2.50	20417.40	35802.60	105.021	
2P	1	354.51	2.50	20417.40	35402.00	57.594	

Numero del nucleo n. 1887

Nodi: -6272 -6280 -6286 1787

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	-12624.00	-922.45	0.00	-12624.00	-2957.77	0.00	3.206	
2P	1	SLU	-15294.90	0.00	-5106.88	-15294.90	0.00	-43052.10	8.430	
3P	1	SLU	-14434.20	656.78	0.00	-14434.20	3007.95	0.00	4.580	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1P	2	SLE R	-9052.02	-651.17	0.00	20.30	253.86	
1P	4	SLE Q	-7443.92	-529.85	0.00	16.48	203.15	
2P	2	SLE R	-10875.40	0.00	-3786.42	8.55	125.48	
2P	4	SLE Q	-8871.09	0.00	-3117.50	7.01	102.94	
3P	2	SLE R	-10201.80	462.32	0.00	13.02	112.95	
3P	4	SLE Q	-8288.92	365.21	0.00	10.24	90.51	

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _c ^{eff} <cmq>	σ _s <daN/cm ² q>	ε _{sm}	Wk <mm>
1P	4	SLE Q	-7443.92	0.00	-5431.76	31.00	95.00	0.50	8.00	199.18	1.51	258.57	169.84	0.05	0.02	
1P	3	SLE F	-7864.32	0.00	-5762.47	31.00	95.00	0.50	8.00	199.64	1.51	259.45	181.55	0.05	0.02	
2P	4	SLE Q	-8871.09	0.00	-3117.50	31.00	70.00	0.50	8.00	120.66	1.01	73.72	7.98	0.00	0.00	
2P	3	SLE F	-9402.51	0.00	-3310.64	31.00	70.00	0.50	8.00	121.38	1.01	74.62	8.61	0.00	0.00	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	8278.10	2.50	23060.50	38528.60	2.786	
2P	1	10732.30	2.50	23060.50	38934.90	2.149	

Numero del nucleo n. 1895

Nodi: -6270 -6271 -6272

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	-19322.40	-15.41	0.00	-381658.00	-2862.28	0.00	19.752	
2P	1	SLU	-13084.50	212.59	0.00	-13084.50	2690.58	0.00	12.656	
3P	1	SLU	-8015.41	-9.16	0.00	-381658.00	-2549.98	0.00	47.615	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1P	2	SLE R	-14030.30	0.00	-200.24	5.99	89.66	
1P	4	SLE Q	-11644.30	0.00	-197.45	5.02	75.10	
2P	2	SLE R	-9387.58	147.47	0.00	6.43	76.76	
2P	4	SLE Q	-7740.17	115.54	0.00	5.20	62.48	
3P	2	SLE R	-5570.00	0.00	-81.51	2.38	35.64	
3P	4	SLE Q	-4496.41	8.83	0.00	1.98	28.51	

Relazione di calcolo

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	721.05	2.50	17500.70	35344.20	24.271
	2T	1	758.58	2.50	17500.70	34315.90	23.070

Numero del nucleo n. 1897

Nodi: -6270 -6279 -6285 1786

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-12360.50	913.58	0.00	-12360.50	2950.55	0.00	3.230
	2P	1	SLU	-14081.90	0.00	-5162.58	-14081.90	0.00	-42571.90	8.246
	3P	1	SLU	-12314.90	-637.21	0.00	-12314.90	-2949.35	0.00	4.629

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_f <daN/cm^q>
	1P	2	SLE R	-8808.18	649.41	0.00	20.34	262.84
	1P	4	SLE Q	-7361.95	520.46	0.00	16.17	197.39
	2P	2	SLE R	-10018.80	0.00	-3803.64	8.34	122.27
	2P	4	SLE Q	-8221.25	0.00	-3137.52	6.87	100.69
	3P	2	SLE R	-8761.03	-446.59	0.00	12.89	102.44
	3P	4	SLE Q	-7088.63	-356.57	0.00	10.26	82.41

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K₂	Φ_{eq}	Δ_{sm} <mm>	A_s <cm^q>	A_c eff <cm^q>	σ_s <daN/cm^q>	ε_{sm}	W_k <mm>
	1P	4	SLE Q	-7361.95	0.00	-5358.83	31.00	95.00	0.50	8.00	198.90	1.51	258.05	166.82	0.05	0.02
	1P	3	SLE F	-7736.53	0.00	-5682.51	31.00	95.00	0.50	8.00	199.90	1.51	259.94	179.82	0.05	0.02
	2P	4	SLE Q	-8221.25	0.00	-3137.52	31.00	70.00	0.50	8.00	152.09	1.01	113.22	13.91	0.00	0.00
	2P	3	SLE F	-8693.62	0.00	-3330.54	31.00	70.00	0.50	8.00	153.59	1.01	115.09	15.08	0.00	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	7556.25	2.50	17295.40	38488.40	2.289
	2T	1	10290.80	2.50	17295.40	38657.90	1.681

Numero del nucleo n. 1903

Nodi: 1786 -6291 1787

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-11123.50	2764.03	0.00	-11123.50	2636.22	0.00	0.954
	2P	1	SLU	-10675.90	-625.75	0.00	-10675.90	-2623.82	0.00	4.193
	3P	1	SLU	-16079.50	-550.09	0.00	-16079.50	-2773.18	0.00	5.041

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_f <daN/cm^q>
	1P	2	SLE R	-7692.92	1957.09	0.00	76.49	1956.73
	1P	4	SLE Q	-6300.47	1555.88	0.00	60.75	1544.24
	2P	2	SLE R	-7537.56	-437.82	0.00	14.65	126.14
	2P	4	SLE Q	-6154.15	-343.36	0.00	11.38	89.34
	3P	2	SLE R	-11522.60	-383.29	0.00	12.04	122.82
	3P	4	SLE Q	-9348.69	-305.82	0.00	9.63	98.85

Stato limite ultimo - Verifiche a taglio

Relazione di calcolo

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	575.16	2.50	20417.40	34100.20	35.498
	2P	1	443.42	2.50	20417.40	34032.30	46.046

Numero del nucleo n. 1987

Nodi: -6350 -6358 -6364 -6371

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	-14434.20	656.78	0.00	-14434.20	3007.95	0.00	4.580
	2T	1	SLU	-17010.20	1802.69	0.00	-17010.20	3079.16	0.00	1.708

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _ε <daN/cmq>
	1P	2	SLE R	-10201.80	462.32	0.00	13.02	112.95
	1P	4	SLE Q	-8288.92	365.21	0.00	10.24	90.51
	2T	2	SLE R	-11916.20	1265.30	0.00	41.80	762.32
	2T	4	SLE Q	-9458.64	1000.79	0.00	33.05	601.27

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
	2T	4	SLE Q	-9458.64	0.00	7874.65	31.00	95.00	0.50	8.00	174.75	2.01	283.36	306.01	0.09	0.03
	2T	3	SLE F	-10105.60	0.00	8426.27	31.00	95.00	0.50	8.00	174.85	2.01	283.62	328.20	0.10	0.03

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	12613.90	2.50	17295.40	38804.00	1.371
	2P	1	9534.77	2.50	17295.40	39288.30	1.814

Numero del nucleo n. 1995

Nodi: -6348 -6349 -6350

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	-8015.41	-9.16	0.00	-363646.00	-2055.62	0.00	45.368
	2T	1	SLU	-2668.35	229.56	0.00	-2668.35	1900.53	0.00	8.279

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _ε <daN/cmq>
	1P	2	SLE R	-5570.00	0.00	-81.51	2.46	36.76
	1P	4	SLE Q	-4496.41	8.83	0.00	2.04	29.39
	2T	2	SLE R	-1722.31	170.27	0.00	6.99	143.18
	2T	4	SLE Q	-1232.82	140.79	0.00	5.91	133.87

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	733.30	2.50	20417.40	33628.60	27.843
	2T	1	91.44	2.50	20417.40	32817.20	223.299

Numero del nucleo n. 1997

Nodi: -6348 -6357 -6363 -6369

Relazione di calcolo

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-12314.90	-637.21	0.00	-12314.90	-2357.49	0.00	3.700
2	T	1	SLU	-14757.10	-1632.63	0.00	-14757.10	-2427.76	0.00	1.487

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_t <daN/cm^q>
1	P	2	SLE R	-8761.03	-446.59	0.00	13.63	104.65
1	P	4	SLE Q	-7088.63	-356.57	0.00	10.83	84.27
2	T	2	SLE R	-10376.90	-1144.95	0.00	43.00	971.74
2	T	4	SLE Q	-8177.72	-910.93	0.00	34.26	779.03

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K₂	Φ_{eq}	Δ_{sm} <mm>	A_s <cm^q>	A_c eff <cm^q>	σ_s <daN/cm^q>	ε_{sm}	W_k <mm>
2	T	4	SLE Q	-8177.72	0.00	6721.91	31.00	142.50	0.50	8.00	219.28	1.51	296.46	314.08	0.09	0.03
2	T	3	SLE F	-8750.26	0.00	7192.87	31.00	142.50	0.50	8.00	219.28	1.51	296.47	336.12	0.10	0.04

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	11596.80	2.50	17295.40	38481.50	1.491
2	P	1	7349.07	2.50	17295.40	38945.40	2.353

Numero del nucleo n. 2003

Nodi: -6369 -6370 -6371

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-16079.50	-550.09	0.00	-16079.50	-2773.18	0.00	5.041
2	T	1	SLU	-11821.90	-4905.28	0.00	-11821.90	-2655.62	0.00	0.541

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm^q>	σ_t <daN/cm^q>
1	P	2	SLE R	-11522.60	-383.29	0.00	12.04	122.82
1	P	4	SLE Q	-9348.69	-305.82	0.00	9.63	98.85
2	T	2	SLE R	-8511.93	-3467.72	0.00	136.88	3784.47
2	T	4	SLE Q	-6825.49	-2777.79	0.00	109.64	3031.08

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	625.19	2.50	20417.40	34852.20	32.658
2	P	1	2094.72	2.50	20417.40	34287.90	9.747

Numero del nucleo n. 50000

Nodi: 37 -7142 -7137 -7141 38

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm^q>	Fctm <daN/cm^q>	Fcd <daN/cm^q>	Fcd (Tag) <daN/cm^q>	Fctd <daN/cm^q>	Fym <daN/cm^q>	Fyd <daN/cm^q>	Fyd (Tag) <daN/cm^q>
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	-166652.00	-288.32	0.00	-862444.00	-10292.70	0.00	5.175
2	P	1	SLU	-152191.00	288.99	0.00	-862444.00	9682.82	0.00	5.667
3	P	1	SLU	-128433.00	-4359.20	0.00	-128433.00	-8611.91	0.00	1.976

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
	1P		2SLE R	-118642.00	-178.74	0.00	21.04	310.94
	1P		4SLE Q	-101435.00	0.00	1333.33	17.68	265.02
	2T		2SLE R	-106812.00	360.74	0.00	19.95	289.95
	2P		4SLE Q	-92372.50	179.16	0.00	16.58	244.10
	3P		2SLE R	-91256.50	-3141.53	0.00	31.41	389.88
	3P		4SLE Q	-78190.40	-2491.66	0.00	25.89	323.98

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 577.97	2.50	37874.70	107367.00	65.530
	2T		1 469.69	2.50	37874.70	107367.00	80.637

Numero del nucleo n. 51000

Nodi: 237 -7121 -260 -7116 238

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>
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		1SLU	-128433.00	-4359.20	0.00	-128433.00	-8611.91	0.00	1.976
	2P		1SLU	-77228.70	1590.47	0.00	-77228.70	6073.79	0.00	3.819

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
	1P		2SLE R	-91256.50	-3141.53	0.00	31.41	389.88
	1P		4SLE Q	-78190.40	-2491.66	0.00	25.89	323.98
	2P		2SLE R	-54856.30	1150.61	0.00	15.14	197.33
	2P		4SLE Q	-47033.50	918.58	0.00	12.63	165.78

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 157.97	2.50	37874.70	105589.00	239.751
	2T		1 4014.10	2.50	37874.70	97519.90	9.435

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_N: 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

Relazione di calcolo

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

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 <m>	Y <m>	Z <m>	Mo <kg>	Jpz <kg*mq>
1	8.94	6.46	3.49	246463.00	12543500.00
3	8.98	6.33	9.49	232993.00	11945800.00
5	8.94	6.53	15.49	241671.00	12137900.00
7	8.95	6.52	21.49	239447.00	12016500.00
9	9.39	6.60	27.49	221409.00	10052900.00

Imp.	X <m>	Y <m>	Z <m>	Mo <kg>	Jpz <kg*mq>
2	8.95	6.51	6.35	240894.00	12209900.00
4	8.94	6.53	12.16	243629.00	12247600.00
6	8.91	6.71	18.02	250082.00	12299500.00
8	8.91	6.71	23.89	250082.00	12299500.00

Totali masse impalcati

Mo <kg>	Jpz <kg*mq>
2166670.00	107753000.00

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/cm²>
Resistenza media (Fcm): 204.50 <daN/cm²>
Resistenza di calcolo a compressione del calcestruzzo (Fcd): 144.85 <daN/cm²>
Resistenza di calcolo a compressione del calcestruzzo per verifica a taglio (Fcd (Tag)): 96.57 <daN/cm²>
Resistenza media a trazione (Fctm): 16.12 <daN/cm²>
Resistenza di calcolo a trazione del calcestruzzo (Fctd): 8.95 <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>

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/cm²>
Resistenza media (Fcm): 370.50 <daN/cm²>

Relazione di calcolo

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_{rot} =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 _{rot}	Qps	CCE	Qpn	CCE	QA	CCE	QA2	CCE	QA3	CCE
	<m>			<m²>	<daN/m²>		<daN/m²>		<daN/m²>		<daN/m²>		<daN/m²>	
0	0.00	3	Solaio SP	204.86	200.00	1	200.00	2	200.00	3	--	--	--	--
1	3.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
2	6.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
3	9.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
4	12.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
5	15.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
6	18.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
7	21.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
8	24.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
9	27.50	2	Solaio copertura	187.05	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.
Travata n. 19007	1	SLU	TAG	0.323
Pilastrata n. 1	4	SLE Q	PRFL	0.439
Pilastrata n. 4	1	SLU	TAG	0.629
Nucleo n. 2003	1	SLU	PRFL	0.541
Nucleo n. 1987	1	SLU	TAG	1.371

Minimo coefficiente di sicurezza:0.323