

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**



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Operatore: CASA SPA



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TAV. N°	TAVOLE DI PROGETTO STRUTTURALE:	SCALA:
DF-ST 00.7	TABULATI DI CALCOLO POST BLOCCO 1	-
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ADDETTO ALLA VERIFICA

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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

Relazione di calcolo

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

Unità di misura

- Le unità di misura adottate sono le seguenti:
- lunghezze : m
 - forze : daN
 - masse : kg
 - temperature : gradi centigradi
 - angoli : gradi sessadecimali o radianti

Geometria

Elenco vincoli nodi

Simbologia

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

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

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
D = Distanza
H = Altezza
Ma = Numero del materiale
Mem. = Membratura
T = Trave
P = Pilastro
Sez. = Numero della sezione
Tipo = Tipologia
2I = Doppia I
L = Sezione a L
Ldx = L destra
R = Rettangolare
Rc = Rettangolare cava
T = Sezione a T
Ver. = Verifica prevista
C = Cemento armato
A = Acciaio
a = Spessore anima
b = Base inferiore
h = Altezza parte inf.
r = Raggio raccordo anima-ala
rl = Raggio in testa ala

Relazione di calcolo

s =Spessore ala

Sez.	Comm.	Tipo	Mem.	Ver.	B <cm>	b <cm>	H <cm>	h <cm>	s <cm>	a <cm>	r <cm>	r1 <cm>	D <cm>	Ma	C	Crit. C.I.	Crit. C.F.
1	Pil 40x50	R	P	C	40.00		50.00							1	1		
2	Pil 40x68	R	P	C	40.00		68.00							1	1		
7	Pil 30x35	R	P	C	30.00		35.00							1	1		
9	Pil 25x35	R	P	C	25.00		35.00							1	1		
10	Pil 40x35	R	P	C	40.00		35.00							1	1		
16	Tr 16x66	R	T	C	16.00		65.00							1	3		
18	Tr 18x24	R	T	C	18.00		24.00							1	3		
19	cord 20x18	R	T	C	20.00		18.00							1	3		
21	Pil 30x68	R	P	C	30.00		68.00							1	1		
22	Pil 25x68	R	P	C	25.00		68.00							1	1		
23	Pil 30x50	R	P	C	30.00		50.00							1	1		
26	Tr 30x24	R	T	C	30.00		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		
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		
54	NTr. 46x24	R	T	C	46.00		24.00							1	4		
55	NTr. 2xIPE200	2I	T	A	10.00		20.00		0.85	0.56	1.20	0.00	40.00	2	1	1	1
56	NTr. L30x50 DX	Ldx	T	C	100.00	30.00	24.00	26.00						1	1		
57	NTr. L30x50 SX	L	T	C	130.00	30.00	24.00	26.00						1	1		
58	NTr. L 30x50 LATERALE	Ldx	T	C	60.00	30.00	24.00	26.00						1	1		
59	Pil 25x50	R	P	C	25.00		50.00							1	1		
60	Pil 25x68	R	P	C	25.00		68.00							1	1		

Elenco vincoli aste

Simbologia

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

Va	Comm.	Tipo	Ni	Tyi	Tzi	Mxi	Myi	Mzi	Nf	Tyf	Tzf	Mxf	Myf	Mzf	Kt <daN/cmc>
1	Inc+Inc	SVI	1	1	1	1	1	1	1	1	1	1	1	1	
2	Inc+Cer	SVI	1	1	1	1	1	1	1	1	1	0	0	0	
3	Cer+Inc	SVI	1	1	1	0	0	0	1	1	1	1	1	1	
4	Cer+Cer	SVI	1	1	1	0	0	0	1	1	1	1	0	0	
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

Relazione di calcolo

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	Setti vano Scala sp.20	F	N	20.00		N	0.00	0.00	0.00	1	

Elenco tipi solai

Simbologia

Comm. =Commento
Lfl =Larghezza fascia laterale
QA =Primo carico accidentale
QA2 =Secondo carico accidentale
QA3 =Terzo carico accidentale
Qpn =Carico permanente non strutturale
Qps =Carico permanente strutturale
Rc =Ripartizione carichi
UN = Unidirezionale
Rip. int. =Ripartizione su aste interne
Rip. ter. =Ripartizione su aste terminali
Ts =Numero del tipo solaio
s =Coeff. di riduzione

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

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

Relazione di calcolo

			-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 -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 -7225 -7141 -7235 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	N	V	1
2	Tamponatura Balconi	170.00	AP	AL	N	V	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

Relazione di calcolo

Tipo CCE	Comm.	Tipo	Durata	γ 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

Condizioni di carico elementari

Simbologia

CCE =Numero della condizione di carico elementare

Comm. =Commento

Dir. =Direzione del vento

Jpx =Moltiplicatore del momento d'inerzia intorno all'asse X

Jpy =Moltiplicatore del momento d'inerzia intorno all'asse Y

Jpz =Moltiplicatore del momento d'inerzia intorno all'asse Z

Mx =Moltiplicatore della massa in dir. X

My =Moltiplicatore della massa in dir. Y

Mz =Moltiplicatore della massa in dir. Z

Sic. =Contributo alla sicurezza

S = a sfavore

Tipo =Tipologia di pressione vento

M = Massimizzata

E = Esterna

I = Interna

Tipo CCE =Tipo di CCE per calcolo agli stati limite

Var. =Tipo di variabilità

B = di base

s =Coeff. di riduzione (T.A. o S.L. D.M. 96)

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

Elenco carichi asteCondizione di carico n. 1: Permanenti strutturali

Elenco peso proprio aste

Simbologia

A =Area

Comm. =Commento

Mat. =Materiale

P =Peso specifico

PL =Peso specifico a metro lineare

Sez. =Numero della sezione

Sez.	Comm.	A <cmq>	Mat.	P <daN/mc>	PL <daN/m>
1	Pil 40x50	2000.000000	Calcestruzzo	2500.00	500.00
2	Pil 40x68	2720.000000	Calcestruzzo	2500.00	680.00
7	Pil 30x35	1050.000000	Calcestruzzo	2500.00	262.50
9	Pil 25x35	875.000000	Calcestruzzo	2500.00	218.75
10	Pil 40x35	1400.000000	Calcestruzzo	2500.00	350.00
16	Tr 16x66	1040.000000	Calcestruzzo	2500.00	260.00
18	Tr 18x24	432.000000	Calcestruzzo	2500.00	108.00
19	cord 20x18	360.000000	Calcestruzzo	2500.00	90.00
21	Pil 30x68	2040.000000	Calcestruzzo	2500.00	510.00
22	Pil 25x68	1700.000000	Calcestruzzo	2500.00	425.00
23	Pil 30x50	1500.000000	Calcestruzzo	2500.00	375.00
26	Tr 30x24	720.000000	Calcestruzzo	2500.00	180.00
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
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
54	NTr. 46x24	1104.000000	Calcestruzzo	2500.00	276.00
55	NTr. 2xIPE200	56.969800	Acciaio	7850.00	44.72
56	NTr. L30x50 DX	3180.000000	Calcestruzzo	2500.00	795.00
57	NTr. L30x50 SX	3900.000000	Calcestruzzo	2500.00	975.00
58	NTr. L 30x50 LATERALE	2220.000000	Calcestruzzo	2500.00	555.00
59	Pil 25x50	1250.000000	Calcestruzzo	2500.00	312.50
60	Pil 25x68	1700.000000	Calcestruzzo	2500.00	425.00

Condizione di carico n. 1: Permanenti strutturali

Carichi distribuiti

Simbologia

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

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-905	-906	S	308	QPS	ZG	0.00	433.55	0.79	433.55
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	40.00	0.36	40.00	
3001	-294	-295	--	M	ZG	0.00	40.00	0.36	40.00	
3001	-296	-297	--	M	ZG	0.00	40.00	0.36	40.00	
3001	-298	-299	--	M	ZG	0.00	40.00	0.36	40.00	
3001	-300	356	--	M	ZG	0.00	40.00	0.36	40.00	
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
3003	-794	-795	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	302	-798	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	-801	-802	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	-805	303	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	-807	-808	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	-811	-812	S	308	QPS	ZG	0.00	433.55	0.07	433.55
3003	-812	304	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	-815	-816	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	-819	-820	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	-822	-823	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	-906	-907	S	308	QPS	ZG	0.00	433.55	0.79	433.55
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	40.00	0.36	40.00	
3001	-295	-296	---	M	ZG	0.00	40.00	0.36	40.00	
3001	-297	-298	---	M	ZG	0.00	40.00	0.36	40.00	
3001	-299	-300	---	M	ZG	0.00	40.00	0.36	40.00	
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
3003	-795	-796	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	-798	-799	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	-802	-803	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	303	-806	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3003	-806	-807	S	308	QPS	ZG	0.31	433.55	0.36	433.55
3003	-808	-809	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	0.07	638.25	0.36	638.25
3003	304	-813	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	-816	-817	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	-820	305	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	-823	-824	S	308	QPS	ZG	0.00	638.25	0.36	638.25

Relazione di calcolo

3003	-824	-825	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	-828	306	S	308	QPS	ZG	0.00	638.25	0.36	638.25
3007	321	322	S	300	QPS	ZG	0.00	594.55	3.23	594.55
3007	322	385	S	300	QPS	ZG	0.00	594.55	3.23	594.55
3007	385	386	S	308	QPS	ZG	0.00	638.25	0.67	638.25
3009	336	337	S	300	QPS	ZG	0.00	594.55	3.23	594.55
3009	339	340	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	-302	-303	-	--	M	ZG	0.00	1500.00	0.36	1500.00
3044	-304	-305	-	--	M	ZG	0.00	1500.00	0.36	1500.00
3044	-306	-307	-	--	M	ZG	0.00	1500.00	0.36	1500.00
3087	359	-308	-	--	M	ZG	0.00	40.00	0.36	40.00
3087	-309	-310	-	--	M	ZG	0.00	40.00	0.36	40.00
3087	-311	-312	-	--	M	ZG	0.00	40.00	0.36	40.00
3087	-313	-314	-	--	M	ZG	0.00	40.00	0.36	40.00
3087	-315	360	-	--	M	ZG	0.00	40.00	0.36	40.00
5001	-1067	-1068	-	--	M	ZG	0.00	40.00	0.36	40.00
5001	-1069	-1070	-	--	M	ZG	0.00	40.00	0.36	40.00
5001	-1071	-1072	-	--	M	ZG	0.00	40.00	0.36	40.00
5001	-1073	-1074	-	--	M	ZG	0.00	40.00	0.36	40.00
5003	501	-1564	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	-1567	-1568	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	-1571	502	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	-1574	-1575	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	-1578	-1579	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	0.31	433.55	0.36	433.55
5003	-1582	-1583	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	0.07	638.25	0.36	638.25
5003	504	-1587	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	-1590	-1591	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	-1594	505	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	-1597	-1598	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	-1601	-1602	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	508	QPS	ZG	0.00	638.25	3.23	638.25
5007	522	585	S	508	QPS	ZG	0.00	638.25	3.23	638.25
5009	535	536	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	540	541	S	501	QPS	ZG	0.00	594.55	3.25	594.55
5044	-1075	-1076	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5044	-1077	-1078	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5044	-1079	-1080	-	--	M	ZG	0.00	1500.00	0.36	1500.00

3003	-825	-826	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	306	307	S	308	QPS	ZG	0.00	638.25	3.25	638.25
3007	321	322	S	308	QPS	ZG	0.00	638.25	3.23	638.25
3007	322	385	S	308	QPS	ZG	0.00	638.25	3.23	638.25
3009	335	336	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	340	341	S	301	QPS	ZG	0.00	594.55	3.25	594.55
3044	-301	-302	-	--	M	ZG	0.00	1500.00	0.36	1500.00
3044	-303	-304	-	--	M	ZG	0.00	1500.00	0.36	1500.00
3044	-305	-306	-	--	M	ZG	0.00	1500.00	0.36	1500.00
3044	-307	358	-	--	M	ZG	0.00	1500.00	0.36	1500.00
3087	-308	-309	-	--	M	ZG	0.00	40.00	0.36	40.00
3087	-310	-311	-	--	M	ZG	0.00	40.00	0.36	40.00
3087	-312	-313	-	--	M	ZG	0.00	40.00	0.36	40.00
3087	-314	-315	-	--	M	ZG	0.00	40.00	0.36	40.00
5001	555	-1067	-	--	M	ZG	0.00	40.00	0.36	40.00
5001	-1068	-1069	-	--	M	ZG	0.00	40.00	0.36	40.00
5001	-1070	-1071	-	--	M	ZG	0.00	40.00	0.36	40.00
5001	-1072	-1073	-	--	M	ZG	0.00	40.00	0.36	40.00
5001	-1074	556	-	--	M	ZG	0.00	40.00	0.36	40.00
5003	-1564	-1565	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	-1568	-1569	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	502	-1572	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	-1575	-1576	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	-1579	503	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	-1581	-1582	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	-1585	-1586	S	508	QPS	ZG	0.00	433.55	0.07	433.55
5003	-1586	504	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	-1589	-1590	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	-1593	-1594	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	-1596	-1597	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	-1600	-1601	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
5007	521	522	S	500	QPS	ZG	0.00	594.55	3.23	594.55
5007	522	585	S	500	QPS	ZG	0.00	594.55	3.23	594.55
5007	585	586	S	508	QPS	ZG	0.00	638.25	0.67	638.25
5009	536	537	S	500	QPS	ZG	0.00	594.55	3.23	594.55
5009	539	540	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	-1076	-1077	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5044	-1078	-1079	-	--	M	ZG	0.00	1500.00	0.36	1500.00
5044	-1080	-1081	-	--	M	ZG	0.00	1500.00	0.36	1500.00

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5044	-1081	558	--	M	ZG	0.00	1500.00	0.36	1500.00	
5087	-1082	-1083	--	M	ZG	0.00	40.00	0.36	40.00	
5087	-1084	-1085	--	M	ZG	0.00	40.00	0.36	40.00	
5087	-1086	-1087	--	M	ZG	0.00	40.00	0.36	40.00	
5087	-1088	-1089	--	M	ZG	0.00	40.00	0.36	40.00	
7001	755	-1832	--	M	ZG	0.00	40.00	0.36	40.00	
7001	-1833	-1834	--	M	ZG	0.00	40.00	0.36	40.00	
7001	-1835	-1836	--	M	ZG	0.00	40.00	0.36	40.00	
7001	-1837	-1838	--	M	ZG	0.00	40.00	0.36	40.00	
7001	-1839	756	--	M	ZG	0.00	40.00	0.36	40.00	
7003	-2329	-2330	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	-2333	-2334	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	702	-2337	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	-2340	-2341	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	-2344	703	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	-2346	-2347	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	-2350	-2351	S	708	QPS	ZG	0.00	433.55	0.07	433.55
7003	-2351	704	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	-2354	-2355	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	-2358	-2359	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	-2361	-2362	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	-2365	-2366	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
7007	721	722	S	700	QPS	ZG	0.00	594.55	3.23	594.55
7007	722	785	S	700	QPS	ZG	0.00	594.55	3.23	594.55
7007	785	786	S	708	QPS	ZG	0.00	638.25	0.67	638.25
7009	736	737	S	700	QPS	ZG	0.00	594.55	3.23	594.55
7009	739	740	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	-1841	-1842	--	M	ZG	0.00	1500.00	0.36	1500.00	
7044	-1843	-1844	--	M	ZG	0.00	1500.00	0.36	1500.00	
7044	-1845	-1846	--	M	ZG	0.00	1500.00	0.36	1500.00	
7087	759	-1847	--	M	ZG	0.00	40.00	0.36	40.00	
7087	-1848	-1849	--	M	ZG	0.00	40.00	0.36	40.00	
7087	-1850	-1851	--	M	ZG	0.00	40.00	0.36	40.00	
7087	-1852	-1853	--	M	ZG	0.00	40.00	0.36	40.00	
7087	-1854	760	--	M	ZG	0.00	40.00	0.36	40.00	
9001	-2597	-2598	--	M	ZG	0.00	40.00	0.36	40.00	
9001	-2599	-2600	--	M	ZG	0.00	40.00	0.36	40.00	
9001	-2601	-2602	--	M	ZG	0.00	40.00	0.36	40.00	
9001	-2603	-2604	--	M	ZG	0.00	40.00	0.36	40.00	
9003	901	-3094	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

5087	559	-1082	---	M	ZG	0.00	40.00	0.36	40.00
5087	-1083	-1084	---	M	ZG	0.00	40.00	0.36	40.00
5087	-1085	-1086	---	M	ZG	0.00	40.00	0.36	40.00
5087	-1087	-1088	---	M	ZG	0.00	40.00	0.36	40.00
5087	-1089	560	---	M	ZG	0.00	40.00	0.36	40.00
7001	-1832	-1833	---	M	ZG	0.00	40.00	0.36	40.00
7001	-1834	-1835	---	M	ZG	0.00	40.00	0.36	40.00
7001	-1836	-1837	---	M	ZG	0.00	40.00	0.36	40.00
7001	-1838	-1839	---	M	ZG	0.00	40.00	0.36	40.00
7003	701	-2329	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	-2332	-2333	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	-2336	702	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	-2339	-2340	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	-2343	-2344	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	0.31	433.55	0.36	433.55
7003	-2347	-2348	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	0.07	638.25	0.36	638.25
7003	704	-2352	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	-2355	-2356	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	-2359	705	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
7003	-2362	-2363	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	-2366	-2367	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 708	QPS	ZG	0.00	638.25	3.23	638.25
7007	722	785	S 708	QPS	ZG	0.00	638.25	3.23	638.25
7009	735	736	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	740	741	S 701	QPS	ZG	0.00	594.55	3.25	594.55
7044	-1840	-1841	---	M	ZG	0.00	1500.00	0.36	1500.00
7044	-1842	-1843	---	M	ZG	0.00	1500.00	0.36	1500.00
7044	-1844	-1845	---	M	ZG	0.00	1500.00	0.36	1500.00
7044	-1846	758	---	M	ZG	0.00	1500.00	0.36	1500.00
7087	-1847	-1848	---	M	ZG	0.00	40.00	0.36	40.00
7087	-1849	-1850	---	M	ZG	0.00	40.00	0.36	40.00
7087	-1851	-1852	---	M	ZG	0.00	40.00	0.36	40.00
7087	-1853	-1854	---	M	ZG	0.00	40.00	0.36	40.00
9001	955	-2597	---	M	ZG	0.00	40.00	0.36	40.00
9001	-2598	-2599	---	M	ZG	0.00	40.00	0.36	40.00
9001	-2600	-2601	---	M	ZG	0.00	40.00	0.36	40.00
9001	-2602	-2603	---	M	ZG	0.00	40.00	0.36	40.00
9001	-2604	956	---	M	ZG	0.00	40.00	0.36	40.00
9003	-3094	-3095	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

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9003	-3097	-3098	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	-3101	902	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	-3104	-3105	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	-3108	-3109	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	0.31	433.55	0.36	433.55
9003	-3112	-3113	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	0.07	638.25	0.36	638.25
9003	904	-3117	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	-3120	-3121	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	-3124	905	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	-3127	-3128	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	-3131	-3132	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	908	QPS	ZG	0.00	638.25	3.23	638.25
9007	922	985	S	908	QPS	ZG	0.00	638.25	3.23	638.25
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	40.00	0.36	40.00
9087	-2614	-2615	-	--	M	ZG	0.00	40.00	0.36	40.00
9087	-2616	-2617	-	--	M	ZG	0.00	40.00	0.36	40.00
9087	-2618	-2619	-	--	M	ZG	0.00	40.00	0.36	40.00
11001	1155	-3362	-	--	M	ZG	0.00	40.00	0.36	40.00
11001	-3363	-3364	-	--	M	ZG	0.00	40.00	0.36	40.00
11001	-3365	-3366	-	--	M	ZG	0.00	40.00	0.36	40.00
11001	-3367	-3368	-	--	M	ZG	0.00	40.00	0.36	40.00
11001	-3369	1156	-	--	M	ZG	0.00	40.00	0.36	40.00
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

9003	-3098	-3099	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	902	-3102	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	-3105	-3106	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	-3109	903	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	-3111	-3112	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	-3115	-3116	S	908	QPS	ZG	0.00	433.55	0.07	433.55
9003	-3116	904	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	-3119	-3120	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	-3123	-3124	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	-3126	-3127	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	-3130	-3131	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
9007	921	922	S	900	QPS	ZG	0.00	594.55	3.23	594.55
9007	922	985	S	900	QPS	ZG	0.00	594.55	3.23	594.55
9007	985	986	S	908	QPS	ZG	0.00	638.25	0.67	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	40.00	0.36	40.00
9087	-2613	-2614	-	---	M	ZG	0.00	40.00	0.36	40.00
9087	-2615	-2616	-	---	M	ZG	0.00	40.00	0.36	40.00
9087	-2617	-2618	-	---	M	ZG	0.00	40.00	0.36	40.00
9087	-2619	960	-	---	M	ZG	0.00	40.00	0.36	40.00
11001	-3362	-3363	-	---	M	ZG	0.00	40.00	0.36	40.00
11001	-3364	-3365	-	---	M	ZG	0.00	40.00	0.36	40.00
11001	-3366	-3367	-	---	M	ZG	0.00	40.00	0.36	40.00
11001	-3368	-3369	-	---	M	ZG	0.00	40.00	0.36	40.00
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

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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
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	40.00	0.36	40.00
11087	-3378	-3379	-	--	M	ZG	0.00	40.00	0.36	40.00
11087	-3380	-3381	-	--	M	ZG	0.00	40.00	0.36	40.00
11087	-3382	-3383	-	--	M	ZG	0.00	40.00	0.36	40.00
11087	-3384	1160	-	--	M	ZG	0.00	40.00	0.36	40.00
13001	-4127	-4128	-	--	M	ZG	0.00	40.00	0.36	40.00
13001	-4129	-4130	-	--	M	ZG	0.00	40.00	0.36	40.00
13001	-4131	-4132	-	--	M	ZG	0.00	40.00	0.36	40.00
13001	-4133	-4134	-	--	M	ZG	0.00	40.00	0.36	40.00
13003	1301	-4624	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4625	-4626	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4627	-4628	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4629	-4630	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4631	1302	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4632	-4633	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4634	-4635	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4636	-4637	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4638	-4639	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	1303	-4640	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4640	-4641	S	1300	QPS	ZG	0.31	433.55	0.36	433.55
13003	-4642	-4643	S	1300	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4644	-4645	S	1300	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4645	-4646	S	1300	QPS	ZG	0.07	638.25	0.36	638.25
13003	1304	-4647	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4648	-4649	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4650	-4651	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4652	-4653	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4654	1305	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4655	-4656	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4657	-4658	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4659	-4660	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4661	-4662	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	1306	1307	S	1300	QPS	ZG	0.00	638.25	3.25	638.25
13007	1321	1322	S	1301	QPS	ZG	0.00	594.55	3.23	594.55

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
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	40.00	0.36	40.00
11087	-3379	-3380	-	--	M	ZG	0.00	40.00	0.36	40.00
11087	-3381	-3382	-	--	M	ZG	0.00	40.00	0.36	40.00
11087	-3383	-3384	-	--	M	ZG	0.00	40.00	0.36	40.00
13001	1355	-4127	-	--	M	ZG	0.00	40.00	0.36	40.00
13001	-4128	-4129	-	--	M	ZG	0.00	40.00	0.36	40.00
13001	-4130	-4131	-	--	M	ZG	0.00	40.00	0.36	40.00
13001	-4132	-4133	-	--	M	ZG	0.00	40.00	0.36	40.00
13001	-4134	1356	-	--	M	ZG	0.00	40.00	0.36	40.00
13003	-4624	-4625	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4626	-4627	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4628	-4629	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4630	-4631	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	1302	-4632	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4633	-4634	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4635	-4636	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4637	-4638	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4639	1303	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4640	-4641	S	1300	QPS	ZG	0.00	638.25	0.31	638.25
13003	-4641	-4642	S	1300	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4643	-4644	S	1300	QPS	ZG	0.00	433.55	0.36	433.55
13003	-4645	-4646	S	1300	QPS	ZG	0.00	433.55	0.07	433.55
13003	-4646	1304	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4647	-4648	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4649	-4650	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4651	-4652	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4653	-4654	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	1305	-4655	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4656	-4657	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4658	-4659	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4660	-4661	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13003	-4662	1306	S	1300	QPS	ZG	0.00	638.25	0.36	638.25
13007	1321	1322	S	1300	QPS	ZG	0.00	638.25	3.23	638.25
13007	1322	1385	S	1300	QPS	ZG	0.00	638.25	3.23	638.25

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13007	1322	1385	S	1301	QPS	ZG	0.00	594.55	3.23	594.55
13009	1335	1336	S	1301	QPS	ZG	0.00	594.55	3.23	594.55
13009	1338	1339	S	1302	QPS	ZG	0.00	594.55	3.25	594.55
13009	1340	1341	S	1302	QPS	ZG	0.00	594.55	3.25	594.55
13044	-4135	-4136	-	--	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4137	-4138	-	--	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4139	-4140	-	--	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4141	1358	-	--	M	ZG	0.00	1500.00	0.36	1500.00
13087	-4142	-4143	-	--	M	ZG	0.00	40.00	0.36	40.00
13087	-4144	-4145	-	--	M	ZG	0.00	40.00	0.36	40.00
13087	-4146	-4147	-	--	M	ZG	0.00	40.00	0.36	40.00
13087	-4148	-4149	-	--	M	ZG	0.00	40.00	0.36	40.00
15001	1555	-4892	-	--	M	ZG	0.00	40.00	0.36	40.00
15001	-4893	-4894	-	--	M	ZG	0.00	40.00	0.36	40.00
15001	-4895	-4896	-	--	M	ZG	0.00	40.00	0.36	40.00
15001	-4897	-4898	-	--	M	ZG	0.00	40.00	0.36	40.00
15001	-4899	1556	-	--	M	ZG	0.00	40.00	0.36	40.00
15003	-5389	-5390	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
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
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	40.00	0.36	40.00
15087	-4908	-4909	-	--	M	ZG	0.00	40.00	0.36	40.00
15087	-4910	-4911	-	--	M	ZG	0.00	40.00	0.36	40.00
15087	-4912	-4913	-	--	M	ZG	0.00	40.00	0.36	40.00

13007	1385	1386	S	1300	QPS	ZG	0.00	638.25	0.67	638.25
13009	1336	1337	S	1301	QPS	ZG	0.00	594.55	3.23	594.55
13009	1339	1340	S	1302	QPS	ZG	0.00	594.55	3.25	594.55
13044	1357	-4135	-	--	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4136	-4137	-	--	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4138	-4139	-	--	M	ZG	0.00	1500.00	0.36	1500.00
13044	-4140	-4141	-	--	M	ZG	0.00	1500.00	0.36	1500.00
13087	1359	-4142	-	--	M	ZG	0.00	40.00	0.36	40.00
13087	-4143	-4144	-	--	M	ZG	0.00	40.00	0.36	40.00
13087	-4145	-4146	-	--	M	ZG	0.00	40.00	0.36	40.00
13087	-4147	-4148	-	--	M	ZG	0.00	40.00	0.36	40.00
13087	-4149	1360	-	--	M	ZG	0.00	40.00	0.36	40.00
15001	-4892	-4893	-	--	M	ZG	0.00	40.00	0.36	40.00
15001	-4894	-4895	-	--	M	ZG	0.00	40.00	0.36	40.00
15001	-4896	-4897	-	--	M	ZG	0.00	40.00	0.36	40.00
15001	-4898	-4899	-	--	M	ZG	0.00	40.00	0.36	40.00
15003	1501	-5389	S	1500	QPS	ZG	0.00	638.25	0.36	638.25
15003	-5390	-5391	S	1500	QPS	ZG	0.00	638.25	0.36	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
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	40.00	0.36	40.00
15087	-4909	-4910	-	--	M	ZG	0.00	40.00	0.36	40.00
15087	-4911	-4912	-	--	M	ZG	0.00	40.00	0.36	40.00
15087	-4913	-4914	-	--	M	ZG	0.00	40.00	0.36	40.00

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15087	-4914	1560	-	--	M	ZG	0.00	40.00	0.36	40.00
17001	-5658	-5659	-	--	M	ZG	0.00	40.00	0.36	40.00
17001	-5660	-5661	-	--	M	ZG	0.00	40.00	0.36	40.00
17001	-5662	-5663	-	--	M	ZG	0.00	40.00	0.36	40.00
17001	-5664	-5665	-	--	M	ZG	0.00	40.00	0.36	40.00
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
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
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	40.00	0.36	40.00
17087	-5675	-5676	-	--	M	ZG	0.00	40.00	0.36	40.00
17087	-5677	-5678	-	--	M	ZG	0.00	40.00	0.36	40.00
17087	-5679	-5680	-	--	M	ZG	0.00	40.00	0.36	40.00
19001	1955	-6423	-	--	M	ZG	0.00	40.00	0.36	40.00
19001	-6424	-6425	-	--	M	ZG	0.00	40.00	0.36	40.00
19001	-6426	-6427	-	--	M	ZG	0.00	40.00	0.36	40.00
19001	-6428	-6429	-	--	M	ZG	0.00	40.00	0.36	40.00
19001	-6430	1956	-	--	M	ZG	0.00	40.00	0.36	40.00
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

17001	1755	-5658	---	M	ZG	0.00	40.00	0.36	40.00
17001	-5659	-5660	---	M	ZG	0.00	40.00	0.36	40.00
17001	-5661	-5662	---	M	ZG	0.00	40.00	0.36	40.00
17001	-5663	-5664	---	M	ZG	0.00	40.00	0.36	40.00
17001	-5665	1756	---	M	ZG	0.00	40.00	0.36	40.00
17003	-6155	-6156	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6157	-6158	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6159	-6160	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6161	-6162	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	1702	-6163	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6164	-6165	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6166	-6167	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6168	-6169	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6170	1703	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6171	-6172	S1700	QPS	ZG	0.00	638.25	0.31	638.25
17003	-6172	-6173	S1700	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6174	-6175	S1700	QPS	ZG	0.00	433.55	0.36	433.55
17003	-6176	-6177	S1700	QPS	ZG	0.00	433.55	0.07	433.55
17003	-6177	1704	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6178	-6179	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6180	-6181	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6182	-6183	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6184	-6185	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	1705	-6186	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6187	-6188	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6189	-6190	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6191	-6192	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17003	-6193	1706	S1700	QPS	ZG	0.00	638.25	0.36	638.25
17007	1721	1722	S1700	QPS	ZG	0.00	638.25	3.23	638.25
17007	1722	1785	S1700	QPS	ZG	0.00	638.25	3.23	638.25
17007	1785	1786	S1700	QPS	ZG	0.00	638.25	0.67	638.25
17009	1736	1737	S1701	QPS	ZG	0.00	594.55	3.23	594.55
17009	1739	1740	S1702	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	40.00	0.36	40.00
17087	-5674	-5675	---	M	ZG	0.00	40.00	0.36	40.00
17087	-5676	-5677	---	M	ZG	0.00	40.00	0.36	40.00
17087	-5678	-5679	---	M	ZG	0.00	40.00	0.36	40.00
17087	-5680	1760	---	M	ZG	0.00	40.00	0.36	40.00
19001	-6423	-6424	---	M	ZG	0.00	40.00	0.36	40.00
19001	-6425	-6426	---	M	ZG	0.00	40.00	0.36	40.00
19001	-6427	-6428	---	M	ZG	0.00	40.00	0.36	40.00
19001	-6429	-6430	---	M	ZG	0.00	40.00	0.36	40.00
19003	1901	-6920	S1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6921	-6922	S1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6923	-6924	S1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6925	-6926	S1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6927	1902	S1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6928	-6929	S1902	QPS	ZG	0.00	638.25	0.36	638.25
19003	-6930	-6931	S1902	QPS	ZG	0.00	638.25	0.36	638.25

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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
19003	-6952	-6953	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	-6956	-6957	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
19007	1921	1922	S	1901	QPS	ZG	0.00	594.55	3.23	594.55
19007	1922	1985	S	1901	QPS	ZG	0.00	594.55	3.23	594.55
19007	1985	1986	S	1902	QPS	ZG	0.00	638.25	0.67	638.25
19009	1936	1937	S	1901	QPS	ZG	0.00	594.55	3.23	594.55
19009	1939	1940	S	1900	QPS	ZG	0.00	594.55	3.25	594.55
19044	1957	-6431	-	--	M	ZG	0.00	40.00	0.36	40.00
19044	-6432	-6433	-	--	M	ZG	0.00	40.00	0.36	40.00
19044	-6434	-6435	-	--	M	ZG	0.00	40.00	0.36	40.00
19044	-6436	-6437	-	--	M	ZG	0.00	40.00	0.36	40.00
19087	1959	-6438	-	--	M	ZG	0.00	40.00	0.36	40.00
19087	-6439	-6440	-	--	M	ZG	0.00	40.00	0.36	40.00
19087	-6441	-6442	-	--	M	ZG	0.00	40.00	0.36	40.00
19087	-6443	-6444	-	--	M	ZG	0.00	40.00	0.36	40.00
19087	-6445	1960	-	--	M	ZG	0.00	40.00	0.36	40.00
22010	21	35	S	2217	QPS	ZG	0.00	323.00	5.17	323.00
22011	2	22	S	2216	QPS	ZG	0.00	323.00	5.55	323.00
22011	22	36	S	2217	QPS	ZG	0.00	323.00	5.17	323.00
22012	3	57	S	2214	QPS	ZG	0.00	323.00	2.66	323.00
22012	57	-98	S	2214	QPS	ZG	0.00	323.00	1.11	323.00
22012	-98	-116	S	2214	QPS	ZG	0.00	323.00	0.59	323.00
22012	-116	-133	S	2214	QPS	ZG	0.00	323.00	0.59	323.00
22012	-133	-150	S	2214	QPS	ZG	0.00	323.00	0.59	323.00
22012	-150	-171	S	2215	QPS	ZG	0.00	323.00	1.11	323.00
22012	-171	37	S	2215	QPS	ZG	0.00	323.00	4.06	323.00
22017	4	58	S	2218	QPS	ZG	0.00	325.00	2.66	325.00
22017	58	-102	S	2218	QPS	ZG	0.00	325.00	1.11	325.00
22017	-102	-120	S	2218	QPS	ZG	0.00	325.00	0.59	325.00
22017	-120	-137	S	2218	QPS	ZG	0.00	325.00	0.59	325.00
22017	-137	-154	S	2218	QPS	ZG	0.00	325.00	0.59	325.00
22017	-154	-175	S	2219	QPS	ZG	0.00	325.00	1.11	325.00
22017	-175	38	S	2219	QPS	ZG	0.00	325.00	4.06	325.00
22018	5	23	S	2218	QPS	ZG	0.00	325.00	5.55	325.00
22018	23	39	S	2219	QPS	ZG	0.00	325.00	5.17	325.00
22019	6	24	S	2213	QPS	ZG	0.00	325.00	5.55	325.00
22019	24	40	S	2212	QPS	ZG	0.00	325.00	5.17	325.00
22020	25	41	S	2211	QPS	ZG	0.00	325.00	5.17	325.00

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
19003	-6953	-6954	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	-6957	-6958	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	1902	QPS	ZG	0.00	638.25	3.23	638.25
19007	1922	1985	S	1902	QPS	ZG	0.00	638.25	3.23	638.25
19009	1935	1936	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	1940	1941	S	1900	QPS	ZG	0.00	594.55	3.25	594.55
19044	-6431	-6432	-	--	M	ZG	0.00	40.00	0.36	40.00
19044	-6433	-6434	-	--	M	ZG	0.00	40.00	0.36	40.00
19044	-6435	-6436	-	--	M	ZG	0.00	40.00	0.36	40.00
19044	-6437	1958	-	--	M	ZG	0.00	40.00	0.36	40.00
19087	-6438	-6439	-	--	M	ZG	0.00	40.00	0.36	40.00
19087	-6440	-6441	-	--	M	ZG	0.00	40.00	0.36	40.00
19087	-6442	-6443	-	--	M	ZG	0.00	40.00	0.36	40.00
19087	-6444	-6445	-	--	M	ZG	0.00	40.00	0.36	40.00
22010	1	21	S	2216	QPS	ZG	0.00	323.00	5.55	323.00
22011	2	22	S	2214	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
22012	3	57	S	2201	QPS	ZG	0.00	290.00	2.66	290.00
22012	57	-98	S	2201	QPS	ZG	0.00	290.00	1.11	290.00
22012	-98	-116	S	2201	QPS	ZG	0.00	290.00	0.59	290.00
22012	-116	-133	S	2201	QPS	ZG	0.00	290.00	0.59	290.00
22012	-133	-150	S	2201	QPS	ZG	0.00	290.00	0.59	290.00
22012	-150	-171	S	2200	QPS	ZG	0.00	290.00	1.11	290.00
22012	-171	37	S	2200	QPS	ZG	0.00	290.00	4.06	290.00
22017	4	58	S	2201	QPS	ZG	0.00	290.00	2.66	290.00
22017	58	-102	S	2201	QPS	ZG	0.00	290.00	1.11	290.00
22017	-102	-120	S	2201	QPS	ZG	0.00	290.00	0.59	290.00
22017	-120	-137	S	2201	QPS	ZG	0.00	290.00	0.59	290.00
22017	-137	-154	S	2201	QPS	ZG	0.00	290.00	0.59	290.00
22017	-154	-175	S	2200	QPS	ZG	0.00	290.00	1.11	290.00
22017	-175	38	S	2200	QPS	ZG	0.00	290.00	4.06	290.00
22018	5	23	S	2213	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
22019	6	24	S	2210	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
22020	7	25	S	2210	QPS	ZG	0.00	325.00	5.55	325.00
30008	387	388	S	308	QPS	ZG	0.00	638.25	0.65	638.25

Relazione di calcolo

30008	388	323	S	301	QPS	ZG	0.00	594.55	3.25	594.55
30008	323	324	S	301	QPS	ZG	0.00	594.55	3.25	594.55
30008	324	325	S	301	QPS	ZG	0.00	594.55	3.25	594.55
50008	587	588	S	508	QPS	ZG	0.00	638.25	0.65	638.25
50008	588	523	S	508	QPS	ZG	0.00	638.25	3.25	638.25
50008	523	524	S	508	QPS	ZG	0.00	638.25	3.25	638.25
50008	524	525	S	508	QPS	ZG	0.00	638.25	3.25	638.25
70008	788	723	S	701	QPS	ZG	0.00	594.55	3.25	594.55
70008	723	724	S	701	QPS	ZG	0.00	594.55	3.25	594.55
70008	724	725	S	701	QPS	ZG	0.00	594.55	3.25	594.55
90008	987	988	S	908	QPS	ZG	0.00	638.25	0.65	638.25
90008	988	923	S	908	QPS	ZG	0.00	638.25	3.25	638.25
90008	923	924	S	908	QPS	ZG	0.00	638.25	3.25	638.25
90008	924	925	S	908	QPS	ZG	0.00	638.25	3.25	638.25
110008	1188	1123	S	1101	QPS	ZG	0.00	638.25	3.25	638.25
110008	1123	1124	S	1101	QPS	ZG	0.00	638.25	3.25	638.25
110008	1124	1125	S	1101	QPS	ZG	0.00	638.25	3.25	638.25
130008	1387	1388	S	1300	QPS	ZG	0.00	638.25	0.65	638.25
130008	1388	1323	S	1302	QPS	ZG	0.00	594.55	3.25	594.55
130008	1323	1324	S	1302	QPS	ZG	0.00	594.55	3.25	594.55
130008	1324	1325	S	1302	QPS	ZG	0.00	594.55	3.25	594.55
150008	1588	1523	S	1502	QPS	ZG	0.00	594.55	3.25	594.55
150008	1523	1524	S	1502	QPS	ZG	0.00	594.55	3.25	594.55
150008	1524	1525	S	1502	QPS	ZG	0.00	594.55	3.25	594.55
170008	1787	1788	S	1700	QPS	ZG	0.00	638.25	0.65	638.25
170008	1788	1723	S	1702	QPS	ZG	0.00	594.55	3.25	594.55
170008	1723	1724	S	1702	QPS	ZG	0.00	594.55	3.25	594.55
170008	1724	1725	S	1702	QPS	ZG	0.00	594.55	3.25	594.55
190008	1988	1923	S	1900	QPS	ZG	0.00	594.55	3.25	594.55
190008	1923	1924	S	1900	QPS	ZG	0.00	594.55	3.25	594.55
190008	1924	1925	S	1900	QPS	ZG	0.00	594.55	3.25	594.55

30008	388	323	S	308	QPS	ZG	0.00	638.25	3.25	638.25
30008	323	324	S	308	QPS	ZG	0.00	638.25	3.25	638.25
30008	324	325	S	308	QPS	ZG	0.00	638.25	3.25	638.25
50008	588	523	S	501	QPS	ZG	0.00	594.55	3.25	594.55
50008	523	524	S	501	QPS	ZG	0.00	594.55	3.25	594.55
50008	524	525	S	501	QPS	ZG	0.00	594.55	3.25	594.55
70008	787	788	S	708	QPS	ZG	0.00	638.25	0.65	638.25
70008	788	723	S	708	QPS	ZG	0.00	638.25	3.25	638.25
70008	723	724	S	708	QPS	ZG	0.00	638.25	3.25	638.25
70008	724	725	S	708	QPS	ZG	0.00	638.25	3.25	638.25
90008	988	923	S	901	QPS	ZG	0.00	594.55	3.25	594.55
90008	923	924	S	901	QPS	ZG	0.00	594.55	3.25	594.55
90008	924	925	S	901	QPS	ZG	0.00	594.55	3.25	594.55
110008	1187	1188	S	1101	QPS	ZG	0.00	638.25	0.65	638.25
110008	1188	1123	S	1102	QPS	ZG	0.00	594.55	3.25	594.55
110008	1123	1124	S	1102	QPS	ZG	0.00	594.55	3.25	594.55
110008	1124	1125	S	1102	QPS	ZG	0.00	594.55	3.25	594.55
130008	1388	1323	S	1300	QPS	ZG	0.00	638.25	3.25	638.25
130008	1323	1324	S	1300	QPS	ZG	0.00	638.25	3.25	638.25
130008	1324	1325	S	1300	QPS	ZG	0.00	638.25	3.25	638.25
150008	1587	1588	S	1500	QPS	ZG	0.00	638.25	0.65	638.25
150008	1588	1523	S	1500	QPS	ZG	0.00	638.25	3.25	638.25
150008	1523	1524	S	1500	QPS	ZG	0.00	638.25	3.25	638.25
150008	1524	1525	S	1500	QPS	ZG	0.00	638.25	3.25	638.25
170008	1788	1723	S	1700	QPS	ZG	0.00	638.25	3.25	638.25
170008	1723	1724	S	1700	QPS	ZG	0.00	638.25	3.25	638.25
170008	1724	1725	S	1700	QPS	ZG	0.00	638.25	3.25	638.25
190008	1987	1988	S	1902	QPS	ZG	0.00	638.25	0.65	638.25
190008	1988	1923	S	1902	QPS	ZG	0.00	638.25	3.25	638.25
190008	1923	1924	S	1902	QPS	ZG	0.00	638.25	3.25	638.25
190008	1924	1925	S	1902	QPS	ZG	0.00	638.25	3.25	638.25

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

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-905	-906	S	308	QPN	ZG	0.00	358.15	0.79	358.15
0	-906	-907	S	308	QPN	ZG	0.00	358.15	0.79	358.15
0	-915	-921	-	--	M	ZG	0.00	600.00	0.59	600.00
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	-1689	-1695	-	--	M	ZG	0.00	600.00	0.59	600.00
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	-2454	-2460	-	--	M	ZG	0.00	600.00	0.59	600.00
0	437	-1034	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	-3219	-3225	-	--	M	ZG	0.00	600.00	0.59	600.00
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	-3984	-3990	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-3990	1187	-	--	M	ZG	0.00	600.00	0.59	600.00

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-914	-920	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-920	386	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-921	387	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-1688	-1694	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-1694	586	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-1695	587	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-2453	-2459	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-2459	786	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-2460	787	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-1034	438	T	222	QPN	ZG	0.00	450.00	1.45	450.00
0	-3218	-3224	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-3224	986	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-3225	987	-	--	M	ZG	0.00	600.00	0.59	600.00
0	637	-1799	T	422	QPN	ZG	0.00	450.00	1.45	450.00
0	-3983	-3989	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-3989	1186	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-2564	838	T	622	QPN	ZG	0.00	450.00	1.45	450.00
0	837	-2564	T	622	QPN	ZG	0.00	450.00	1.45	450.00

Relazione di calcolo

0	-4739	-4740	S	1300	QPN	ZG	0.00	358.15	0.79	358.15
0	-4740	-4741	S	1300	QPN	ZG	0.00	358.15	0.79	358.15
0	-4749	-4755	-	--	M	ZG	0.00	600.00	0.59	600.00
0	1037	-3329	T	822	QPN	ZG	0.00	450.00	1.45	450.00
0	-5504	-5505	S	1500	QPN	ZG	0.00	358.15	0.79	358.15
0	-5505	-5506	S	1500	QPN	ZG	0.00	358.15	0.79	358.15
0	-5514	-5520	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-4094	1238	T	1022	QPN	ZG	0.00	450.00	1.45	450.00
0	-6270	-6271	S	1700	QPN	ZG	0.00	358.15	0.79	358.15
0	-6271	-6272	S	1700	QPN	ZG	0.00	358.15	0.79	358.15
0	-6280	-6286	-	--	M	ZG	0.00	600.00	0.59	600.00
0	1437	-4859	T	1222	QPN	ZG	0.00	450.00	1.45	450.00
0	-7035	-7036	S	1902	QPN	ZG	0.00	754.00	0.79	754.00
0	-7036	-7037	S	1902	QPN	ZG	0.00	754.00	0.79	754.00
0	-7045	-7051	-	--	M	ZG	0.00	600.00	0.59	600.00
0	1637	-5625	T	1422	QPN	ZG	0.00	450.00	1.45	450.00
0	1837	-6390	T	1622	QPN	ZG	0.00	450.00	1.45	450.00
3003	301	-790	T	101	QPN	ZG	0.00	900.00	0.36	900.00
3003	-790	-791	T	101	QPN	ZG	0.00	900.00	0.36	900.00
3003	-791	-792	T	101	QPN	ZG	0.00	900.00	0.36	900.00
3003	-792	-793	T	101	QPN	ZG	0.00	900.00	0.36	900.00
3003	-793	-794	T	101	QPN	ZG	0.00	900.00	0.36	900.00
3003	-794	-795	T	101	QPN	ZG	0.00	900.00	0.36	900.00
3003	-795	-796	T	101	QPN	ZG	0.00	900.00	0.36	900.00
3003	-796	-797	T	101	QPN	ZG	0.00	900.00	0.36	900.00
3003	-797	302	T	101	QPN	ZG	0.00	900.00	0.36	900.00
3003	302	-798	T	102	QPN	ZG	0.00	900.00	0.36	900.00
3003	-798	-799	T	102	QPN	ZG	0.00	900.00	0.36	900.00
3003	-799	-800	T	102	QPN	ZG	0.00	900.00	0.36	900.00
3003	-800	-801	T	102	QPN	ZG	0.00	900.00	0.36	900.00
3003	-801	-802	T	102	QPN	ZG	0.00	900.00	0.36	900.00
3003	-802	-803	T	102	QPN	ZG	0.00	900.00	0.36	900.00
3003	-803	-804	T	102	QPN	ZG	0.00	900.00	0.36	900.00
3003	-804	-805	T	102	QPN	ZG	0.00	900.00	0.36	900.00
3003	-805	303	T	102	QPN	ZG	0.00	900.00	0.36	900.00
3003	303	-806	T	103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-806	-807	T	103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-807	-808	S	308	QPN	ZG	0.00	358.15	0.36	358.15
3003	-808	-809	S	308	QPN	ZG	0.00	358.15	0.36	358.15
3003	-809	-810	S	308	QPN	ZG	0.00	358.15	0.36	358.15
3003	-810	-811	S	308	QPN	ZG	0.00	358.15	0.36	358.15
3003	-811	-812	S	308	QPN	ZG	0.00	358.15	0.07	358.15
3003	-811	-812	S	308	QPN	ZG	0.07	527.25	0.36	527.25
3003	-812	304	T	103	QPN	ZG	0.00	900.00	0.36	900.00
3003	304	-813	T	104	QPN	ZG	0.00	900.00	0.36	900.00
3003	-813	-814	T	104	QPN	ZG	0.00	900.00	0.36	900.00
3003	-814	-815	T	104	QPN	ZG	0.00	900.00	0.36	900.00
3003	-815	-816	T	104	QPN	ZG	0.00	900.00	0.36	900.00
3003	-816	-817	T	104	QPN	ZG	0.00	900.00	0.36	900.00
3003	-817	-818	T	104	QPN	ZG	0.00	900.00	0.36	900.00
3003	-818	-819	T	104	QPN	ZG	0.00	900.00	0.36	900.00
3003	-819	-820	T	104	QPN	ZG	0.00	900.00	0.36	900.00
3003	-820	305	T	104	QPN	ZG	0.00	900.00	0.36	900.00

0	-4748	-4754	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-4754	1386	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-4755	1387	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-3329	1038	T	822	QPN	ZG	0.00	450.00	1.45	450.00
0	-5513	-5519	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-5519	1586	-	--	M	ZG	0.00	600.00	0.59	600.00
0	1237	-4094	T	1022	QPN	ZG	0.00	450.00	1.45	450.00
0	-5520	1587	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-6279	-6285	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-6285	1786	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-6286	1787	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-4859	1438	T	1222	QPN	ZG	0.00	450.00	1.45	450.00
0	-7044	-7050	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-7050	1986	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-7051	1987	-	--	M	ZG	0.00	600.00	0.59	600.00
0	-5625	1638	T	1422	QPN	ZG	0.00	450.00	1.45	450.00
3003	301	-790	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-790	-791	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-791	-792	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-792	-793	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-793	-794	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-794	-795	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-795	-796	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-796	-797	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-797	302	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	302	-798	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-798	-799	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-799	-800	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-800	-801	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-801	-802	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-802	-803	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-803	-804	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-804	-805	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-805	303	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	303	-806	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-806	-807	S	308	QPN	ZG	0.00	527.25	0.31	527.25
3003	-806	-807	S	308	QPN	ZG	0.31	358.15	0.36	358.15
3003	-807	-808	T	103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-808	-809	T	103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-809	-810	T	103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-810	-811	T	103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-811	-812	T	103	QPN	ZG	0.00	900.00	0.36	900.00
3003	-812	304	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	304	-813	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-813	-814	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-814	-815	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-815	-816	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-816	-817	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-817	-818	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-818	-819	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-819	-820	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-820	305	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	305	-821	S	308	QPN	ZG	0.00	527.25	0.36	527.25

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3003	305	-821	T	105	QPN	ZG	0.00	900.00	0.36	900.00
3003	-821	-822	T	105	QPN	ZG	0.00	900.00	0.36	900.00
3003	-822	-823	T	105	QPN	ZG	0.00	900.00	0.36	900.00
3003	-823	-824	T	105	QPN	ZG	0.00	900.00	0.36	900.00
3003	-824	-825	T	105	QPN	ZG	0.00	900.00	0.36	900.00
3003	-825	-826	T	105	QPN	ZG	0.00	900.00	0.36	900.00
3003	-826	-827	T	105	QPN	ZG	0.00	900.00	0.36	900.00
3003	-827	-828	T	105	QPN	ZG	0.00	900.00	0.36	900.00
3003	-828	306	T	105	QPN	ZG	0.00	900.00	0.36	900.00
3003	306	307	T	106	QPN	ZG	0.00	900.00	3.25	900.00
3007	321	322	S	300	QPN	ZG	0.00	491.15	3.23	491.15
3007	322	385	-	--	M	ZG	0.00	600.00	3.23	600.00
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
3009	335	336	T	120	QPN	ZG	0.00	900.00	3.23	900.00
3009	336	337	T	121	QPN	ZG	0.00	900.00	3.23	900.00
3009	338	339	T	123	QPN	ZG	0.00	900.00	3.25	900.00
3009	339	340	T	124	QPN	ZG	0.00	900.00	3.25	900.00
3009	340	341	T	125	QPN	ZG	0.00	900.00	3.25	900.00
3010	321	335	T	140	QPN	ZG	0.00	900.00	5.17	900.00
3017	388	-933	-	--	M	ZG	0.00	600.00	0.75	600.00
5003	501	-1564	T	201	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1564	-1565	T	201	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1565	-1566	T	201	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1566	-1567	T	201	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1567	-1568	T	201	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1568	-1569	T	201	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1569	-1570	T	201	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1570	-1571	T	201	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1571	502	T	201	QPN	ZG	0.00	900.00	0.36	900.00
5003	502	-1572	T	202	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1572	-1573	T	202	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1573	-1574	T	202	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1574	-1575	T	202	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1575	-1576	T	202	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1576	-1577	T	202	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1577	-1578	T	202	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1578	-1579	T	202	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1579	503	T	202	QPN	ZG	0.00	900.00	0.36	900.00
5003	503	-1580	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1580	-1581	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1581	-1582	S	508	QPN	ZG	0.00	358.15	0.36	358.15
5003	-1582	-1583	S	508	QPN	ZG	0.00	358.15	0.36	358.15
5003	-1583	-1584	S	508	QPN	ZG	0.00	358.15	0.36	358.15
5003	-1584	-1585	S	508	QPN	ZG	0.00	358.15	0.36	358.15
5003	-1585	-1586	S	508	QPN	ZG	0.00	358.15	0.07	358.15
5003	-1585	-1586	S	508	QPN	ZG	0.07	527.25	0.36	527.25
5003	-1586	504	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	504	-1587	T	204	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1587	-1588	T	204	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1588	-1589	T	204	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1589	-1590	T	204	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1590	-1591	T	204	QPN	ZG	0.00	900.00	0.36	900.00

3003	-821	-822	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-822	-823	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-823	-824	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-824	-825	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-825	-826	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-826	-827	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-827	-828	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	-828	306	S	308	QPN	ZG	0.00	527.25	0.36	527.25
3003	306	307	S	308	QPN	ZG	0.00	527.25	3.25	527.25
3007	321	322	-	--	M	ZG	0.00	600.00	3.23	600.00
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	385	386	-	--	M	ZG	0.00	600.00	0.67	600.00
3009	335	336	S	300	QPN	ZG	0.00	491.15	3.23	491.15
3009	336	337	S	300	QPN	ZG	0.00	491.15	3.23	491.15
3009	338	339	S	301	QPN	ZG	0.00	491.15	3.25	491.15
3009	339	340	S	301	QPN	ZG	0.00	491.15	3.25	491.15
3009	340	341	S	301	QPN	ZG	0.00	491.15	3.25	491.15
3010	301	321	T	139	QPN	ZG	0.00	900.00	5.55	900.00
3012	385	-929	-	--	M	ZG	0.00	600.00	0.75	600.00
5003	501	-1564	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1564	-1565	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1565	-1566	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1566	-1567	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1567	-1568	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1568	-1569	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1569	-1570	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1570	-1571	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1571	502	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	502	-1572	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1572	-1573	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1573	-1574	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1574	-1575	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1575	-1576	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1576	-1577	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1577	-1578	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1578	-1579	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1579	503	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	503	-1580	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1580	-1581	S	508	QPN	ZG	0.00	527.25	0.31	527.25
5003	-1580	-1581	S	508	QPN	ZG	0.31	358.15	0.36	358.15
5003	-1581	-1582	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1582	-1583	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1583	-1584	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1584	-1585	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1585	-1586	T	203	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1586	504	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	504	-1587	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1587	-1588	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1588	-1589	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1589	-1590	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1590	-1591	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1591	-1592	S	508	QPN	ZG	0.00	527.25	0.36	527.25

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5003	-1591	-1592	T	204	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1592	-1593	T	204	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1593	-1594	T	204	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1594	505	T	204	QPN	ZG	0.00	900.00	0.36	900.00
5003	505	-1595	T	205	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1595	-1596	T	205	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1596	-1597	T	205	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1597	-1598	T	205	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1598	-1599	T	205	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1599	-1600	T	205	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1600	-1601	T	205	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1601	-1602	T	205	QPN	ZG	0.00	900.00	0.36	900.00
5003	-1602	506	T	205	QPN	ZG	0.00	900.00	0.36	900.00
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	522	585	-	--	M	ZG	0.00	600.00	3.23	600.00
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
5009	535	536	T	220	QPN	ZG	0.00	900.00	3.23	900.00
5009	536	537	T	221	QPN	ZG	0.00	900.00	3.23	900.00
5009	538	539	S	501	QPN	ZG	0.00	491.15	3.25	491.15
5009	539	540	S	501	QPN	ZG	0.00	491.15	3.25	491.15
5009	540	541	S	501	QPN	ZG	0.00	491.15	3.25	491.15
5010	501	521	T	239	QPN	ZG	0.00	900.00	5.55	900.00
5012	585	-1703	-	--	M	ZG	0.00	600.00	0.75	600.00
7003	701	-2329	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2329	-2330	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2330	-2331	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2331	-2332	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2332	-2333	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2333	-2334	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2334	-2335	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2335	-2336	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2336	702	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	702	-2337	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2337	-2338	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2338	-2339	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2339	-2340	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2340	-2341	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2341	-2342	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2342	-2343	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2343	-2344	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2344	703	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	703	-2345	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2345	-2346	S	708	QPN	ZG	0.00	527.25	0.31	527.25
7003	-2345	-2346	S	708	QPN	ZG	0.31	358.15	0.36	358.15
7003	-2346	-2347	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2347	-2348	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2348	-2349	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2349	-2350	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2350	-2351	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2351	704	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	704	-2352	S	708	QPN	ZG	0.00	527.25	0.36	527.25

5003	-1592	-1593	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1593	-1594	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1594	505	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	505	-1595	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1595	-1596	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1596	-1597	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1597	-1598	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1598	-1599	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1599	-1600	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1600	-1601	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1601	-1602	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	-1602	506	S	508	QPN	ZG	0.00	527.25	0.36	527.25
5003	506	507	S	508	QPN	ZG	0.00	527.25	3.25	527.25
5007	521	522	-	--	M	ZG	0.00	600.00	3.23	600.00
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	585	586	-	--	M	ZG	0.00	600.00	0.67	600.00
5009	535	536	S	500	QPN	ZG	0.00	491.15	3.23	491.15
5009	536	537	S	500	QPN	ZG	0.00	491.15	3.23	491.15
5009	537	538	T	322	QPN	ZG	0.00	450.00	2.90	450.00
5009	538	539	T	223	QPN	ZG	0.00	900.00	3.25	900.00
5009	539	540	T	224	QPN	ZG	0.00	900.00	3.25	900.00
5009	540	541	T	225	QPN	ZG	0.00	900.00	3.25	900.00
5010	521	535	T	240	QPN	ZG	0.00	900.00	5.17	900.00
5017	588	-1707	-	--	M	ZG	0.00	600.00	0.75	600.00
7003	701	-2329	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2329	-2330	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2330	-2331	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2331	-2332	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2332	-2333	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2333	-2334	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2334	-2335	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2335	-2336	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2336	702	T	301	QPN	ZG	0.00	900.00	0.36	900.00
7003	702	-2337	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2337	-2338	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2338	-2339	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2339	-2340	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2340	-2341	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2341	-2342	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2342	-2343	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2343	-2344	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2344	703	T	302	QPN	ZG	0.00	900.00	0.36	900.00
7003	703	-2345	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2345	-2346	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2346	-2347	S	708	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2347	-2348	S	708	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2348	-2349	S	708	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2349	-2350	S	708	QPN	ZG	0.00	358.15	0.36	358.15
7003	-2350	-2351	S	708	QPN	ZG	0.00	358.15	0.07	358.15
7003	-2350	-2351	S	708	QPN	ZG	0.07	527.25	0.36	527.25
7003	-2351	704	T	303	QPN	ZG	0.00	900.00	0.36	900.00
7003	704	-2352	T	304	QPN	ZG	0.00	900.00	0.36	900.00

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7003	-2352	-2353	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2353	-2354	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2354	-2355	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2355	-2356	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2356	-2357	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2357	-2358	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2358	-2359	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2359	705	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	705	-2360	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2360	-2361	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2361	-2362	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2362	-2363	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2363	-2364	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2364	-2365	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2365	-2366	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2366	-2367	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	-2367	706	S	708	QPN	ZG	0.00	527.25	0.36	527.25
7003	706	707	S	708	QPN	ZG	0.00	527.25	3.25	527.25
7007	721	722	--	M	ZG	0.00	600.00	3.23	600.00	
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	785	786	--	M	ZG	0.00	600.00	0.67	600.00	
7009	735	736	S	700	QPN	ZG	0.00	491.15	3.23	491.15
7009	736	737	S	700	QPN	ZG	0.00	491.15	3.23	491.15
7009	737	738	T	522	QPN	ZG	0.00	450.00	2.90	450.00
7009	738	739	T	323	QPN	ZG	0.00	900.00	3.25	900.00
7009	739	740	T	324	QPN	ZG	0.00	900.00	3.25	900.00
7009	740	741	T	325	QPN	ZG	0.00	900.00	3.25	900.00
7010	721	735	T	340	QPN	ZG	0.00	900.00	5.17	900.00
7017	788	-2472	--	M	ZG	0.00	600.00	0.75	600.00	
9003	901	-3094	T	401	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3094	-3095	T	401	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3095	-3096	T	401	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3096	-3097	T	401	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3097	-3098	T	401	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3098	-3099	T	401	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3099	-3100	T	401	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3100	-3101	T	401	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3101	902	T	401	QPN	ZG	0.00	900.00	0.36	900.00
9003	902	-3102	T	402	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3102	-3103	T	402	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3103	-3104	T	402	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3104	-3105	T	402	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3105	-3106	T	402	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3106	-3107	T	402	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3107	-3108	T	402	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3108	-3109	T	402	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3109	903	T	402	QPN	ZG	0.00	900.00	0.36	900.00
9003	903	-3110	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3110	-3111	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3111	-3112	S	908	QPN	ZG	0.00	358.15	0.36	358.15
9003	-3112	-3113	S	908	QPN	ZG	0.00	358.15	0.36	358.15
9003	-3113	-3114	S	908	QPN	ZG	0.00	358.15	0.36	358.15

7003	-2352	-2353	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2353	-2354	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2354	-2355	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2355	-2356	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2356	-2357	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2357	-2358	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2358	-2359	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2359	705	T	304	QPN	ZG	0.00	900.00	0.36	900.00
7003	705	-2360	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2360	-2361	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2361	-2362	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2362	-2363	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2363	-2364	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2364	-2365	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2365	-2366	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2366	-2367	T	305	QPN	ZG	0.00	900.00	0.36	900.00
7003	-2367	706	T	305	QPN	ZG	0.00	900.00	0.36	900.00
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	722	785	--	M	ZG	0.00	600.00	3.23	600.00	
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
7009	735	736	T	320	QPN	ZG	0.00	900.00	3.23	900.00
7009	736	737	T	321	QPN	ZG	0.00	900.00	3.23	900.00
7009	738	739	S	701	QPN	ZG	0.00	491.15	3.25	491.15
7009	739	740	S	701	QPN	ZG	0.00	491.15	3.25	491.15
7009	740	741	S	701	QPN	ZG	0.00	491.15	3.25	491.15
7010	701	721	T	339	QPN	ZG	0.00	900.00	5.55	900.00
7012	785	-2468	--	M	ZG	0.00	600.00	0.75	600.00	
9003	901	-3094	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3094	-3095	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3095	-3096	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3096	-3097	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3097	-3098	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3098	-3099	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3099	-3100	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3100	-3101	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3101	902	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	902	-3102	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3102	-3103	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3103	-3104	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3104	-3105	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3105	-3106	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3106	-3107	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3107	-3108	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3108	-3109	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3109	903	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	903	-3110	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3110	-3111	S	908	QPN	ZG	0.00	527.25	0.31	527.25
9003	-3111	-3112	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3112	-3113	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3113	-3114	T	403	QPN	ZG	0.00	900.00	0.36	900.00

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9003	-3114	-3115	S	908	QPN	ZG	0.00	358.15	0.36	358.15
9003	-3115	-3116	S	908	QPN	ZG	0.00	358.15	0.07	358.15
9003	-3115	-3116	S	908	QPN	ZG	0.07	527.25	0.36	527.25
9003	-3116	904	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	904	-3117	T	404	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3117	-3118	T	404	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3118	-3119	T	404	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3119	-3120	T	404	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3120	-3121	T	404	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3121	-3122	T	404	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3122	-3123	T	404	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3123	-3124	T	404	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3124	905	T	404	QPN	ZG	0.00	900.00	0.36	900.00
9003	905	-3125	T	405	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3125	-3126	T	405	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3126	-3127	T	405	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3127	-3128	T	405	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3128	-3129	T	405	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3129	-3130	T	405	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3130	-3131	T	405	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3131	-3132	T	405	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3132	906	T	405	QPN	ZG	0.00	900.00	0.36	900.00
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	922	985	-	--	M	ZG	0.00	600.00	3.23	600.00
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
9009	935	936	T	420	QPN	ZG	0.00	900.00	3.23	900.00
9009	936	937	T	421	QPN	ZG	0.00	900.00	3.23	900.00
9009	938	939	S	901	QPN	ZG	0.00	491.15	3.25	491.15
9009	939	940	S	901	QPN	ZG	0.00	491.15	3.25	491.15
9009	940	941	S	901	QPN	ZG	0.00	491.15	3.25	491.15
9010	901	921	T	439	QPN	ZG	0.00	900.00	5.55	900.00
9012	985	-3233	-	--	M	ZG	0.00	600.00	0.75	600.00
11003	1101	-3859	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3859	-3860	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3860	-3861	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3861	-3862	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3862	-3863	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3863	-3864	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3864	-3865	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3865	-3866	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3866	1102	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	1102	-3867	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3867	-3868	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3868	-3869	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3869	-3870	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3870	-3871	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3871	-3872	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3872	-3873	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3873	-3874	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3874	1103	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	1103	-3875	S	1101	QPN	ZG	0.00	527.25	0.36	527.25

9003	-3114	-3115	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3115	-3116	T	403	QPN	ZG	0.00	900.00	0.36	900.00
9003	-3116	904	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	904	-3117	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3117	-3118	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3118	-3119	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3119	-3120	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3120	-3121	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3121	-3122	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3122	-3123	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3123	-3124	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3124	905	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	905	-3125	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3125	-3126	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3126	-3127	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3127	-3128	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3128	-3129	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3129	-3130	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3130	-3131	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3131	-3132	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	-3132	906	S	908	QPN	ZG	0.00	527.25	0.36	527.25
9003	906	907	S	908	QPN	ZG	0.00	527.25	3.25	527.25
9007	921	922	-	--	M	ZG	0.00	600.00	3.23	600.00
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	985	986	-	--	M	ZG	0.00	600.00	0.67	600.00
9009	935	936	S	900	QPN	ZG	0.00	491.15	3.23	491.15
9009	936	937	S	900	QPN	ZG	0.00	491.15	3.23	491.15
9009	937	938	T	722	QPN	ZG	0.00	450.00	2.90	450.00
9009	938	939	T	423	QPN	ZG	0.00	900.00	3.25	900.00
9009	939	940	T	424	QPN	ZG	0.00	900.00	3.25	900.00
9009	940	941	T	425	QPN	ZG	0.00	900.00	3.25	900.00
9010	921	935	T	440	QPN	ZG	0.00	900.00	5.17	900.00
9017	988	-3237	-	--	M	ZG	0.00	600.00	0.75	600.00
11003	1101	-3859	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3859	-3860	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3860	-3861	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3861	-3862	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3862	-3863	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3863	-3864	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3864	-3865	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3865	-3866	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3866	1102	T	501	QPN	ZG	0.00	900.00	0.36	900.00
11003	1102	-3867	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3867	-3868	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3868	-3869	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3869	-3870	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3870	-3871	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3871	-3872	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3872	-3873	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3873	-3874	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3874	1103	T	502	QPN	ZG	0.00	900.00	0.36	900.00
11003	1103	-3875	T	503	QPN	ZG	0.00	900.00	0.36	900.00

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11003	-3875	-3876	S	1101	QPN	ZG	0.00	527.25	0.31	527.25
11003	-3875	-3876	S	1101	QPN	ZG	0.31	358.15	0.36	358.15
11003	-3876	-3877	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3877	-3878	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3878	-3879	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3879	-3880	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3880	-3881	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3881	1104	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	1104	-3882	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3882	-3883	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3883	-3884	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3884	-3885	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3885	-3886	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3886	-3887	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3887	-3888	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3888	-3889	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3889	1105	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	1105	-3890	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3890	-3891	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3891	-3892	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3892	-3893	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3893	-3894	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3894	-3895	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3895	-3896	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3896	-3897	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	-3897	1106	S	1101	QPN	ZG	0.00	527.25	0.36	527.25
11003	1106	1107	S	1101	QPN	ZG	0.00	527.25	3.25	527.25
11007	1121	1122	--	M	ZG	0.00	600.00	3.23	600.00	
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	1185	1186	--	M	ZG	0.00	600.00	0.67	600.00	
11009	1135	1136	S	1100	QPN	ZG	0.00	491.15	3.23	491.15
11009	1136	1137	S	1100	QPN	ZG	0.00	491.15	3.23	491.15
11009	1137	1138	T	922	QPN	ZG	0.00	450.00	2.90	450.00
11009	1138	1139	T	523	QPN	ZG	0.00	900.00	3.25	900.00
11009	1139	1140	T	524	QPN	ZG	0.00	900.00	3.25	900.00
11009	1140	1141	T	525	QPN	ZG	0.00	900.00	3.25	900.00
11010	1121	1135	T	540	QPN	ZG	0.00	900.00	5.17	900.00
11017	1188	-4002	--	M	ZG	0.00	600.00	0.75	600.00	
13003	1301	-4624	T	601	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4624	-4625	T	601	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4625	-4626	T	601	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4626	-4627	T	601	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4627	-4628	T	601	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4628	-4629	T	601	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4629	-4630	T	601	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4630	-4631	T	601	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4631	1302	T	601	QPN	ZG	0.00	900.00	0.36	900.00
13003	1302	-4632	T	602	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4632	-4633	T	602	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4633	-4634	T	602	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4634	-4635	T	602	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4635	-4636	T	602	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4636	-4637	T	602	QPN	ZG	0.00	900.00	0.36	900.00

11003	-3875	-3876	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3876	-3877	S	1101	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3877	-3878	S	1101	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3878	-3879	S	1101	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3879	-3880	S	1101	QPN	ZG	0.00	358.15	0.36	358.15
11003	-3880	-3881	S	1101	QPN	ZG	0.00	358.15	0.07	358.15
11003	-3880	-3881	S	1101	QPN	ZG	0.07	527.25	0.36	527.25
11003	-3881	1104	T	503	QPN	ZG	0.00	900.00	0.36	900.00
11003	1104	-3882	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3882	-3883	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3883	-3884	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3884	-3885	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3885	-3886	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3886	-3887	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3887	-3888	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3888	-3889	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3889	1105	T	504	QPN	ZG	0.00	900.00	0.36	900.00
11003	1105	-3890	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3890	-3891	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3891	-3892	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3892	-3893	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3893	-3894	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3894	-3895	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3895	-3896	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3896	-3897	T	505	QPN	ZG	0.00	900.00	0.36	900.00
11003	-3897	1106	T	505	QPN	ZG	0.00	900.00	0.36	900.00
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	1122	1185	--	M	ZG	0.00	600.00	3.23	600.00	
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
11009	1135	1136	T	520	QPN	ZG	0.00	900.00	3.23	900.00
11009	1136	1137	T	521	QPN	ZG	0.00	900.00	3.23	900.00
11009	1138	1139	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
11009	1139	1140	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
11009	1140	1141	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
11010	1101	1121	T	539	QPN	ZG	0.00	900.00	5.55	900.00
11012	1185	-3998	--	M	ZG	0.00	600.00	0.75	600.00	
13003	1301	-4624	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4624	-4625	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4625	-4626	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4626	-4627	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4627	-4628	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4628	-4629	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4629	-4630	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4630	-4631	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4631	1302	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	1302	-4632	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4632	-4633	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4633	-4634	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4634	-4635	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4635	-4636	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4636	-4637	S	1300	QPN	ZG	0.00	527.25	0.36	527.25

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13003	-4636	-4637	T	602	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4637	-4638	T	602	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4638	-4639	T	602	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4639	1303	T	602	QPN	ZG	0.00	900.00	0.36	900.00
13003	1303	-4640	T	603	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4640	-4641	T	603	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4641	-4642	S	1300	QPN	ZG	0.00	358.15	0.36	358.15
13003	-4642	-4643	S	1300	QPN	ZG	0.00	358.15	0.36	358.15
13003	-4643	-4644	S	1300	QPN	ZG	0.00	358.15	0.36	358.15
13003	-4644	-4645	S	1300	QPN	ZG	0.00	358.15	0.36	358.15
13003	-4645	-4646	S	1300	QPN	ZG	0.00	358.15	0.07	358.15
13003	-4645	-4646	S	1300	QPN	ZG	0.07	527.25	0.36	527.25
13003	-4646	1304	T	603	QPN	ZG	0.00	900.00	0.36	900.00
13003	1304	-4647	T	604	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4647	-4648	T	604	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4648	-4649	T	604	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4649	-4650	T	604	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4650	-4651	T	604	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4651	-4652	T	604	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4652	-4653	T	604	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4653	-4654	T	604	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4654	1305	T	604	QPN	ZG	0.00	900.00	0.36	900.00
13003	1305	-4655	T	605	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4655	-4656	T	605	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4656	-4657	T	605	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4657	-4658	T	605	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4658	-4659	T	605	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4659	-4660	T	605	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4660	-4661	T	605	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4661	-4662	T	605	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4662	1306	T	605	QPN	ZG	0.00	900.00	0.36	900.00
13003	1306	1307	T	606	QPN	ZG	0.00	900.00	3.25	900.00
13007	1321	1322	S	1300	QPN	ZG	0.00	527.25	3.23	527.25
13007	1322	1385	--	M	ZG	0.00	600.00	3.23	600.00	
13007	1322	1385	S	1301	QPN	ZG	0.00	491.15	3.23	491.15
13007	1385	1386	S	1300	QPN	ZG	0.00	527.25	0.67	527.25
13009	1335	1336	T	620	QPN	ZG	0.00	900.00	3.23	900.00
13009	1336	1337	T	621	QPN	ZG	0.00	900.00	3.23	900.00
13009	1338	1339	S	1302	QPN	ZG	0.00	491.15	3.25	491.15
13009	1339	1340	S	1302	QPN	ZG	0.00	491.15	3.25	491.15
13009	1340	1341	S	1302	QPN	ZG	0.00	491.15	3.25	491.15
13010	1301	1321	T	639	QPN	ZG	0.00	900.00	5.55	900.00
13012	1385	-4763	--	M	ZG	0.00	600.00	0.75	600.00	
15003	1501	-5389	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5389	-5390	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5390	-5391	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5391	-5392	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5392	-5393	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5393	-5394	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5394	-5395	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5395	-5396	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5396	1502	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	1502	-5397	S	1500	QPN	ZG	0.00	527.25	0.36	527.25

13003	-4637	-4638	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4638	-4639	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4639	1303	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	1303	-4640	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4640	-4641	S	1300	QPN	ZG	0.00	527.25	0.31	527.25
13003	-4640	-4641	S	1300	QPN	ZG	0.31	358.15	0.36	358.15
13003	-4641	-4642	T	603	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4642	-4643	T	603	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4643	-4644	T	603	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4644	-4645	T	603	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4645	-4646	T	603	QPN	ZG	0.00	900.00	0.36	900.00
13003	-4646	1304	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	1304	-4647	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4647	-4648	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4648	-4649	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4649	-4650	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4650	-4651	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4651	-4652	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4652	-4653	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4653	-4654	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4654	1305	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	1305	-4655	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4655	-4656	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4656	-4657	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4657	-4658	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4658	-4659	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4659	-4660	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4660	-4661	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4661	-4662	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	-4662	1306	S	1300	QPN	ZG	0.00	527.25	0.36	527.25
13003	1306	1307	S	1300	QPN	ZG	0.00	527.25	3.25	527.25
13007	1321	1322	--	M	ZG	0.00	600.00	3.23	600.00	
13007	1321	1322	S	1301	QPN	ZG	0.00	491.15	3.23	491.15
13007	1322	1385	S	1300	QPN	ZG	0.00	527.25	3.23	527.25
13007	1385	1386	--	M	ZG	0.00	600.00	0.67	600.00	
13009	1335	1336	S	1301	QPN	ZG	0.00	491.15	3.23	491.15
13009	1336	1337	S	1301	QPN	ZG	0.00	491.15	3.23	491.15
13009	1337	1338	T	1122	QPN	ZG	0.00	450.00	2.90	450.00
13009	1338	1339	T	623	QPN	ZG	0.00	900.00	3.25	900.00
13009	1339	1340	T	624	QPN	ZG	0.00	900.00	3.25	900.00
13009	1340	1341	T	625	QPN	ZG	0.00	900.00	3.25	900.00
13010	1321	1335	T	640	QPN	ZG	0.00	900.00	5.17	900.00
13017	1388	-4767	--	M	ZG	0.00	600.00	0.75	600.00	
15003	1501	-5389	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5389	-5390	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5390	-5391	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5391	-5392	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5392	-5393	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5393	-5394	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5394	-5395	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5395	-5396	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5396	1502	T	701	QPN	ZG	0.00	900.00	0.36	900.00
15003	1502	-5397	T	702	QPN	ZG	0.00	900.00	0.36	900.00

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15003	-5397	-5398	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5398	-5399	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5399	-5400	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5400	-5401	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5401	-5402	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5402	-5403	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5403	-5404	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5404	1503	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	1503	-5405	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5405	-5406	S	1500	QPN	ZG	0.00	527.25	0.31	527.25
15003	-5405	-5406	S	1500	QPN	ZG	0.31	358.15	0.36	358.15
15003	-5406	-5407	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5407	-5408	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5408	-5409	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5409	-5410	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5410	-5411	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5411	1504	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	1504	-5412	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5412	-5413	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5413	-5414	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5414	-5415	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5415	-5416	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5416	-5417	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5417	-5418	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5418	-5419	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5419	1505	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	1505	-5420	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5420	-5421	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5421	-5422	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5422	-5423	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5423	-5424	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5424	-5425	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5425	-5426	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5426	-5427	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	-5427	1506	S	1500	QPN	ZG	0.00	527.25	0.36	527.25
15003	1506	1507	S	1500	QPN	ZG	0.00	527.25	3.25	527.25
15007	1521	1522	--	M	ZG	0.00	600.00	3.23	600.00	
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	1585	1586	--	M	ZG	0.00	600.00	0.67	600.00	
15009	1535	1536	S	1501	QPN	ZG	0.00	491.15	3.23	491.15
15009	1536	1537	S	1501	QPN	ZG	0.00	491.15	3.23	491.15
15009	1537	1538	T	1322	QPN	ZG	0.00	450.00	2.90	450.00
15009	1538	1539	T	723	QPN	ZG	0.00	900.00	3.25	900.00
15009	1539	1540	T	724	QPN	ZG	0.00	900.00	3.25	900.00
15009	1540	1541	T	725	QPN	ZG	0.00	900.00	3.25	900.00
15010	1521	1535	T	740	QPN	ZG	0.00	900.00	5.17	900.00
15017	1588	-5533	--	M	ZG	0.00	600.00	0.75	600.00	
17003	1701	-6155	T	801	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6155	-6156	T	801	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6156	-6157	T	801	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6157	-6158	T	801	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6158	-6159	T	801	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6159	-6159	T	801	QPN	ZG	0.00	900.00	0.36	900.00

15003	-5397	-5398	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5398	-5399	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5399	-5400	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5400	-5401	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5401	-5402	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5402	-5403	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5403	-5404	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5404	1503	T	702	QPN	ZG	0.00	900.00	0.36	900.00
15003	1503	-5405	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5405	-5406	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5406	-5407	S	1500	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5407	-5408	S	1500	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5408	-5409	S	1500	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5409	-5410	S	1500	QPN	ZG	0.00	358.15	0.36	358.15
15003	-5410	-5411	S	1500	QPN	ZG	0.00	358.15	0.07	358.15
15003	-5410	-5411	S	1500	QPN	ZG	0.07	527.25	0.36	527.25
15003	-5411	1504	T	703	QPN	ZG	0.00	900.00	0.36	900.00
15003	1504	-5412	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5412	-5413	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5413	-5414	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5414	-5415	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5415	-5416	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5416	-5417	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5417	-5418	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5418	-5419	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5419	1505	T	704	QPN	ZG	0.00	900.00	0.36	900.00
15003	1505	-5420	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5420	-5421	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5421	-5422	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5422	-5423	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5423	-5424	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5424	-5425	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5425	-5426	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5426	-5427	T	705	QPN	ZG	0.00	900.00	0.36	900.00
15003	-5427	1506	T	705	QPN	ZG	0.00	900.00	0.36	900.00
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	1522	1585	--	M	ZG	0.00	600.00	3.23	600.00	
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
15009	1535	1536	T	720	QPN	ZG	0.00	900.00	3.23	900.00
15009	1536	1537	T	721	QPN	ZG	0.00	900.00	3.23	900.00
15009	1538	1539	S	1502	QPN	ZG	0.00	491.15	3.25	491.15
15009	1539	1540	S	1502	QPN	ZG	0.00	491.15	3.25	491.15
15009	1540	1541	S	1502	QPN	ZG	0.00	491.15	3.25	491.15
15010	1501	1521	T	739	QPN	ZG	0.00	900.00	5.55	900.00
15012	1585	-5529	--	M	ZG	0.00	600.00	0.75	600.00	
17003	1701	-6155	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6155	-6156	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6156	-6157	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6157	-6158	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6158	-6159	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6159	-6160	S	1700	QPN	ZG	0.00	527.25	0.36	527.25

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17003	-6159	-6160	T	801	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6160	-6161	T	801	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6161	-6162	T	801	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6162	1702	T	801	QPN	ZG	0.00	900.00	0.36	900.00
17003	1702	-6163	T	802	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6163	-6164	T	802	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6164	-6165	T	802	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6165	-6166	T	802	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6166	-6167	T	802	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6167	-6168	T	802	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6168	-6169	T	802	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6169	-6170	T	802	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6170	1703	T	802	QPN	ZG	0.00	900.00	0.36	900.00
17003	1703	-6171	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6171	-6172	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6172	-6173	S	1700	QPN	ZG	0.00	358.15	0.36	358.15
17003	-6173	-6174	S	1700	QPN	ZG	0.00	358.15	0.36	358.15
17003	-6174	-6175	S	1700	QPN	ZG	0.00	358.15	0.36	358.15
17003	-6175	-6176	S	1700	QPN	ZG	0.00	358.15	0.36	358.15
17003	-6176	-6177	S	1700	QPN	ZG	0.00	358.15	0.07	358.15
17003	-6176	-6177	S	1700	QPN	ZG	0.07	527.25	0.36	527.25
17003	-6177	1704	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	1704	-6178	T	804	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6178	-6179	T	804	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6179	-6180	T	804	QPN	ZG	0.00	900.00	0.36	900.00
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	1700	QPN	ZG	0.00	527.25	3.23	527.25
17007	1722	1785	--	M	ZG	0.00	600.00	3.23	600.00	
17007	1722	1785	S	1701	QPN	ZG	0.00	491.15	3.23	491.15
17007	1785	1786	S	1700	QPN	ZG	0.00	527.25	0.67	527.25
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
17012	1785	-6294	--	M	ZG	0.00	600.00	0.75	600.00	
18009	-6390	1838	T	1622	QPN	ZG	0.00	450.00	1.45	450.00

17003	-6160	-6161	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6161	-6162	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6162	1702	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	1702	-6163	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6163	-6164	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6164	-6165	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6165	-6166	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6166	-6167	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6167	-6168	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6168	-6169	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6169	-6170	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6170	1703	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	1703	-6171	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6171	-6172	S	1700	QPN	ZG	0.00	527.25	0.31	527.25
17003	-6171	-6172	S	1700	QPN	ZG	0.31	358.15	0.36	358.15
17003	-6172	-6173	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6173	-6174	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6174	-6175	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6175	-6176	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6176	-6177	T	803	QPN	ZG	0.00	900.00	0.36	900.00
17003	-6177	1704	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	1704	-6178	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6178	-6179	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6179	-6180	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
17003	-6180	-6181	S	1700	QPN	ZG	0.00	527.25	0.36	527.25
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	--	M	ZG	0.00	600.00	3.23	600.00	
17007	1721	1722	S	1701	QPN	ZG	0.00	491.15	3.23	491.15
17007	1722	1785	S	1700	QPN	ZG	0.00	527.25	3.23	527.25
17007	1785	1786	--	M	ZG	0.00	600.00	0.67	600.00	
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
17017	1788	-6298	--	M	ZG	0.00	600.00	0.75	600.00	
19003	1901	-6920	S	1902	QPN	ZG	0.00	1110.00	0.36	1110.00

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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
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	--	M	ZG	0.00	600.00	3.23	600.00	
19007	1921	1922	S	1902	QPN	ZG	0.00	1110.00	3.23	1110.00
19007	1922	1985	S	1901	QPN	ZG	0.00	1034.00	3.23	1034.00
19007	1985	1986	--	M	ZG	0.00	600.00	0.67	600.00	
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
19017	1988	-7063	--	M	ZG	0.00	600.00	0.75	600.00	
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	-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
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	1901	QPN	ZG	0.00	1034.00	3.23	1034.00
19007	1922	1985	--	M	ZG	0.00	600.00	3.23	600.00	
19007	1922	1985	S	1902	QPN	ZG	0.00	1110.00	3.23	1110.00
19007	1985	1986	S	1902	QPN	ZG	0.00	1110.00	0.67	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
19012	1985	-7059	--	M	ZG	0.00	600.00	0.75	600.00	
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
30008	387	388	--	M	ZG	0.00	600.00	0.65	600.00	

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30008	387	388	S	308	QPN	ZG	0.00	527.25	0.65	527.25
30008	388	323	S	301	QPN	ZG	0.00	491.15	3.25	491.15
30008	323	324	--	M	ZG	0.00	600.00	3.25	600.00	
30008	323	324	S	308	QPN	ZG	0.00	527.25	3.25	527.25
30008	324	325	S	301	QPN	ZG	0.00	491.15	3.25	491.15
50008	587	588	--	M	ZG	0.00	600.00	0.65	600.00	
50008	588	523	--	M	ZG	0.00	600.00	3.25	600.00	
50008	588	523	S	508	QPN	ZG	0.00	527.25	3.25	527.25
50008	523	524	S	501	QPN	ZG	0.00	491.15	3.25	491.15
50008	524	525	--	M	ZG	0.00	600.00	3.25	600.00	
50008	524	525	S	508	QPN	ZG	0.00	527.25	3.25	527.25
70008	787	788	S	708	QPN	ZG	0.00	527.25	0.65	527.25
70008	788	723	S	701	QPN	ZG	0.00	491.15	3.25	491.15
70008	723	724	--	M	ZG	0.00	600.00	3.25	600.00	
70008	723	724	S	708	QPN	ZG	0.00	527.25	3.25	527.25
70008	724	725	S	701	QPN	ZG	0.00	491.15	3.25	491.15
90008	987	988	--	M	ZG	0.00	600.00	0.65	600.00	
90008	988	923	--	M	ZG	0.00	600.00	3.25	600.00	
90008	988	923	S	908	QPN	ZG	0.00	527.25	3.25	527.25
90008	923	924	S	901	QPN	ZG	0.00	491.15	3.25	491.15
90008	924	925	--	M	ZG	0.00	600.00	3.25	600.00	
90008	924	925	S	908	QPN	ZG	0.00	527.25	3.25	527.25
110008	1187	1188	S	1101	QPN	ZG	0.00	527.25	0.65	527.25
110008	1188	1123	S	1101	QPN	ZG	0.00	527.25	3.25	527.25
110008	1123	1124	--	M	ZG	0.00	600.00	3.25	600.00	
110008	1123	1124	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
110008	1124	1125	S	1101	QPN	ZG	0.00	527.25	3.25	527.25
130008	1387	1388	--	M	ZG	0.00	600.00	0.65	600.00	
130008	1388	1323	--	M	ZG	0.00	600.00	3.25	600.00	
130008	1388	1323	S	1302	QPN	ZG	0.00	491.15	3.25	491.15
130008	1323	1324	S	1300	QPN	ZG	0.00	527.25	3.25	527.25
130008	1324	1325	--	M	ZG	0.00	600.00	3.25	600.00	
130008	1324	1325	S	1302	QPN	ZG	0.00	491.15	3.25	491.15
150008	1587	1588	S	1500	QPN	ZG	0.00	527.25	0.65	527.25
150008	1588	1523	S	1502	QPN	ZG	0.00	491.15	3.25	491.15
150008	1523	1524	--	M	ZG	0.00	600.00	3.25	600.00	
150008	1523	1524	S	1500	QPN	ZG	0.00	527.25	3.25	527.25
150008	1524	1525	S	1502	QPN	ZG	0.00	491.15	3.25	491.15
170008	1787	1788	--	M	ZG	0.00	600.00	0.65	600.00	
170008	1788	1723	--	M	ZG	0.00	600.00	3.25	600.00	
170008	1788	1723	S	1702	QPN	ZG	0.00	491.15	3.25	491.15
170008	1723	1724	S	1700	QPN	ZG	0.00	527.25	3.25	527.25
170008	1724	1725	--	M	ZG	0.00	600.00	3.25	600.00	
170008	1724	1725	S	1702	QPN	ZG	0.00	491.15	3.25	491.15
190008	1987	1988	S	1902	QPN	ZG	0.00	1110.00	0.65	1110.00
190008	1988	1923	S	1900	QPN	ZG	0.00	1034.00	3.25	1034.00
190008	1923	1924	--	M	ZG	0.00	600.00	3.25	600.00	
190008	1923	1924	S	1902	QPN	ZG	0.00	1110.00	3.25	1110.00
190008	1924	1925	S	1900	QPN	ZG	0.00	1034.00	3.25	1034.00

30008	388	323	--	M	ZG	0.00	600.00	3.25	600.00	
30008	388	323	S	308	QPN	ZG	0.00	527.25	3.25	527.25
30008	323	324	S	301	QPN	ZG	0.00	491.15	3.25	491.15
30008	324	325	--	M	ZG	0.00	600.00	3.25	600.00	
30008	324	325	S	308	QPN	ZG	0.00	527.25	3.25	527.25
50008	587	588	S	508	QPN	ZG	0.00	527.25	0.65	527.25
50008	588	523	S	501	QPN	ZG	0.00	491.15	3.25	491.15
50008	523	524	--	M	ZG	0.00	600.00	3.25	600.00	
50008	523	524	S	508	QPN	ZG	0.00	527.25	3.25	527.25
50008	524	525	S	501	QPN	ZG	0.00	491.15	3.25	491.15
70008	787	788	--	M	ZG	0.00	600.00	0.65	600.00	
70008	788	723	--	M	ZG	0.00	600.00	3.25	600.00	
70008	788	723	S	708	QPN	ZG	0.00	527.25	3.25	527.25
70008	723	724	S	701	QPN	ZG	0.00	491.15	3.25	491.15
70008	724	725	--	M	ZG	0.00	600.00	3.25	600.00	
70008	724	725	S	708	QPN	ZG	0.00	527.25	3.25	527.25
90008	987	988	S	908	QPN	ZG	0.00	527.25	0.65	527.25
90008	988	923	S	901	QPN	ZG	0.00	491.15	3.25	491.15
90008	923	924	--	M	ZG	0.00	600.00	3.25	600.00	
90008	923	924	S	908	QPN	ZG	0.00	527.25	3.25	527.25
90008	924	925	S	901	QPN	ZG	0.00	491.15	3.25	491.15
110008	1187	1188	--	M	ZG	0.00	600.00	0.65	600.00	
110008	1188	1123	--	M	ZG	0.00	600.00	3.25	600.00	
110008	1188	1123	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
110008	1123	1124	S	1101	QPN	ZG	0.00	527.25	3.25	527.25
110008	1124	1125	--	M	ZG	0.00	600.00	3.25	600.00	
110008	1124	1125	S	1102	QPN	ZG	0.00	491.15	3.25	491.15
130008	1387	1388	S	1300	QPN	ZG	0.00	527.25	0.65	527.25
130008	1388	1323	S	1300	QPN	ZG	0.00	527.25	3.25	527.25
130008	1323	1324	--	M	ZG	0.00	600.00	3.25	600.00	
130008	1323	1324	S	1302	QPN	ZG	0.00	491.15	3.25	491.15
130008	1324	1325	S	1300	QPN	ZG	0.00	527.25	3.25	527.25
150008	1587	1588	--	M	ZG	0.00	600.00	0.65	600.00	
150008	1588	1523	--	M	ZG	0.00	600.00	3.25	600.00	
150008	1588	1523	S	1500	QPN	ZG	0.00	527.25	3.25	527.25
150008	1523	1524	S	1502	QPN	ZG	0.00	491.15	3.25	491.15
150008	1524	1525	--	M	ZG	0.00	600.00	3.25	600.00	
150008	1524	1525	S	1500	QPN	ZG	0.00	527.25	3.25	527.25
170008	1787	1788	S	1700	QPN	ZG	0.00	527.25	0.65	527.25
170008	1788	1723	S	1700	QPN	ZG	0.00	527.25	3.25	527.25
170008	1723	1724	--	M	ZG	0.00	600.00	3.25	600.00	
170008	1723	1724	S	1702	QPN	ZG	0.00	491.15	3.25	491.15
170008	1724	1725	S	1700	QPN	ZG	0.00	527.25	3.25	527.25
190008	1987	1988	--	M	ZG	0.00	600.00	0.65	600.00	
190008	1988	1923	--	M	ZG	0.00	600.00	3.25	600.00	
190008	1988	1923	S	1902	QPN	ZG	0.00	1110.00	3.25	1110.00
190008	1923	1924	S	1900	QPN	ZG	0.00	1034.00	3.25	1034.00
190008	1924	1925	--	M	ZG	0.00	600.00	3.25	600.00	
190008	1924	1925	S	1902	QPN	ZG	0.00	1110.00	3.25	1110.00

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>
Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>

Relazione di calcolo

0	-905	-906	S	308	QA	ZG	0.00	377.00	0.79	377.00
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
3003	-804	-805	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	0.31	377.00	0.36	377.00
3003	-808	-809	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	0.07	555.00	0.36	555.00
3003	304	-813	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	-816	-817	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	-820	305	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	-823	-824	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	-827	-828	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
3007	321	322	S	308	QA	ZG	2.87	555.00	3.23	555.00
3007	321	322	S	308	QA	ZG	1.79	555.00	2.15	555.00
3007	321	322	S	308	QA	ZG	0.72	555.00	1.44	555.00
3007	321	322	S	308	QA	ZG	0.00	555.00	0.36	555.00
3007	322	385	S	308	QA	ZG	0.36	555.00	3.23	555.00
3007	385	386	S	308	QA	ZG	0.00	555.00	0.67	555.00
3009	336	337	S	300	QA	ZG	0.00	517.00	3.23	517.00
3009	339	340	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	-1565	-1566	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	-1569	-1570	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	-1572	-1573	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	-1576	-1577	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	503	-1580	S	508	QA	ZG	0.00	555.00	0.36	555.00
5003	-1580	-1581	S	508	QA	ZG	0.31	377.00	0.36	377.00
5003	-1582	-1583	S	508	QA	ZG	0.00	377.00	0.36	377.00

0	-906	-907	S	308	QA	ZG	0.00	377.00	0.79	377.00
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
3003	-805	303	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	-807	-808	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	-811	-812	S	308	QA	ZG	0.00	377.00	0.07	377.00
3003	-812	304	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	-815	-816	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	-819	-820	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	-822	-823	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	-826	-827	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
3007	321	322	S	300	QA	ZG	0.00	517.00	3.23	517.00
3007	321	322	S	308	QA	ZG	2.15	555.00	2.87	555.00
3007	321	322	S	308	QA	ZG	1.44	555.00	1.79	555.00
3007	321	322	S	308	QA	ZG	0.36	555.00	0.72	555.00
3007	322	385	S	300	QA	ZG	0.00	517.00	3.23	517.00
3007	322	385	S	308	QA	ZG	0.00	555.00	0.36	555.00
3009	335	336	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	340	341	S	301	QA	ZG	0.00	517.00	3.25	517.00
5003	-1564	-1565	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	-1568	-1569	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	502	-1572	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	-1575	-1576	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	-1579	503	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	-1581	-1582	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

Relazione di calcolo

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	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	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	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

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9003	-3095	-3096	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	-3099	-3100	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	-3102	-3103	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	-3106	-3107	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
9003	903	-3110	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3110	-3111	S	908	QA	ZG	0.31	377.00	0.36	377.00
9003	-3112	-3113	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	0.07	555.00	0.36	555.00
9003	904	-3117	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	-3120	-3121	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	-3124	905	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	-3127	-3128	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	-3131	-3132	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	908	QA	ZG	2.87	555.00	3.23	555.00
9007	921	922	S	908	QA	ZG	1.79	555.00	2.15	555.00
9007	921	922	S	908	QA	ZG	0.72	555.00	1.44	555.00
9007	921	922	S	908	QA	ZG	0.00	555.00	0.36	555.00
9007	922	985	S	908	QA	ZG	0.36	555.00	3.23	555.00
9007	985	986	S	908	QA	ZG	0.00	555.00	0.67	555.00
9009	936	937	S	900	QA	ZG	0.00	517.00	3.23	517.00
9009	939	940	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	-3860	-3861	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	-3864	-3865	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	-3867	-3868	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	-3871	-3872	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	1103	-3875	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11003	-3875	-3876	S	1101	QA	ZG	0.31	377.00	0.36	377.00
11003	-3877	-3878	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	0.07	555.00	0.36	555.00
11003	1104	-3882	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	-3885	-3886	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	-3889	1105	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	-3892	-3893	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

9003	-3096	-3097	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	-3100	-3101	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	-3103	-3104	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	-3107	-3108	S	908	QA	ZG	0.00	555.00	0.36	555.00
9003	-3109	903	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	-3111	-3112	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	-3115	-3116	S	908	QA	ZG	0.00	377.00	0.07	377.00
9003	-3116	904	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	-3119	-3120	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	-3123	-3124	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	-3126	-3127	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	-3130	-3131	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
9007	921	922	S	900	QA	ZG	0.00	517.00	3.23	517.00
9007	921	922	S	908	QA	ZG	2.15	555.00	2.87	555.00
9007	921	922	S	908	QA	ZG	1.44	555.00	1.79	555.00
9007	921	922	S	908	QA	ZG	0.36	555.00	0.72	555.00
9007	922	985	S	900	QA	ZG	0.00	517.00	3.23	517.00
9007	922	985	S	908	QA	ZG	0.00	555.00	0.36	555.00
9009	935	936	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	940	941	S	901	QA	ZG	0.00	517.00	3.25	517.00
11003	-3859	-3860	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	-3863	-3864	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	1102	-3867	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	-3870	-3871	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	-3874	1103	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	-3876	-3877	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	-3880	-3881	S	1101	QA	ZG	0.00	377.00	0.07	377.00
11003	-3881	1104	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	-3884	-3885	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	-3888	-3889	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	-3891	-3892	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	-3895	-3896	S	1101	QA	ZG	0.00	555.00	0.36	555.00

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11003	-3896	-3897	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	1101	QA	ZG	2.87	555.00	3.23	555.00
11007	1121	1122	S	1101	QA	ZG	1.79	555.00	2.15	555.00
11007	1121	1122	S	1101	QA	ZG	0.72	555.00	1.44	555.00
11007	1121	1122	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11007	1122	1185	S	1101	QA	ZG	0.36	555.00	3.23	555.00
11007	1185	1186	S	1101	QA	ZG	0.00	555.00	0.67	555.00
11009	1136	1137	S	1100	QA	ZG	0.00	517.00	3.23	517.00
11009	1139	1140	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	-4625	-4626	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	-4629	-4630	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	-4632	-4633	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	-4636	-4637	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	1303	-4640	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13003	-4640	-4641	S	1300	QA	ZG	0.31	377.00	0.36	377.00
13003	-4642	-4643	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	0.07	555.00	0.36	555.00
13003	1304	-4647	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	-4650	-4651	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	-4654	1305	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	-4657	-4658	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	-4661	-4662	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	1301	QA	ZG	0.00	517.00	3.23	517.00
13007	1321	1322	S	1300	QA	ZG	2.15	555.00	2.87	555.00
13007	1321	1322	S	1300	QA	ZG	1.44	555.00	1.79	555.00
13007	1321	1322	S	1300	QA	ZG	0.36	555.00	0.72	555.00
13007	1322	1385	S	1301	QA	ZG	0.00	517.00	3.23	517.00
13007	1385	1386	S	1300	QA	ZG	0.00	555.00	0.67	555.00
13009	1336	1337	S	1301	QA	ZG	0.00	517.00	3.23	517.00
13009	1339	1340	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	-5390	-5391	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	-5394	-5395	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	-5397	-5398	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	-5401	-5402	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	1503	-5405	S	1500	QA	ZG	0.00	555.00	0.36	555.00
15003	-5405	-5406	S	1500	QA	ZG	0.31	377.00	0.36	377.00

11003	-3897	1106	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11007	1121	1122	S	1100	QA	ZG	0.00	517.00	3.23	517.00
11007	1121	1122	S	1101	QA	ZG	2.15	555.00	2.87	555.00
11007	1121	1122	S	1101	QA	ZG	1.44	555.00	1.79	555.00
11007	1121	1122	S	1101	QA	ZG	0.36	555.00	0.72	555.00
11007	1122	1185	S	1100	QA	ZG	0.00	517.00	3.23	517.00
11007	1122	1185	S	1101	QA	ZG	0.00	555.00	0.36	555.00
11009	1135	1136	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	1140	1141	S	1102	QA	ZG	0.00	517.00	3.25	517.00
13003	-4624	-4625	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	-4628	-4629	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	1302	-4632	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	-4635	-4636	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	-4639	1303	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	-4641	-4642	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	-4645	-4646	S	1300	QA	ZG	0.00	377.00	0.07	377.00
13003	-4646	1304	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	-4649	-4650	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	-4653	-4654	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	-4656	-4657	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	-4660	-4661	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
13007	1321	1322	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13007	1321	1322	S	1300	QA	ZG	2.87	555.00	3.23	555.00
13007	1321	1322	S	1300	QA	ZG	1.79	555.00	2.15	555.00
13007	1321	1322	S	1300	QA	ZG	0.72	555.00	1.44	555.00
13007	1322	1385	S	1300	QA	ZG	0.00	555.00	0.36	555.00
13007	1322	1385	S	1300	QA	ZG	0.36	555.00	3.23	555.00
13009	1335	1336	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	1340	1341	S	1302	QA	ZG	0.00	517.00	3.25	517.00
15003	-5389	-5390	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	-5393	-5394	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	1502	-5397	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	-5400	-5401	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	-5404	1503	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	-5406	-5407	S	1500	QA	ZG	0.00	377.00	0.36	377.00

Relazione di calcolo

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
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
17007	1785	1786	S	1700	QA	ZG	0.00	555.00	0.67	555.00
17009	1736	1737	S	1701	QA	ZG	0.00	517.00	3.23	517.00
17009	1739	1740	S	1702	QA	ZG	0.00	517.00	3.25	517.00

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
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
17007	1722	1785	S	1700	QA	ZG	0.36	555.00	3.23	555.00
17009	1735	1736	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	1740	1741	S	1702	QA	ZG	0.00	517.00	3.25	517.00

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19003	1901	-6920	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	-6923	-6924	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	-6927	1902	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	-6930	-6931	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	-6934	-6935	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	0.31	377.00	0.36	377.00
19003	-6938	-6939	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	0.07	555.00	0.36	555.00
19003	1904	-6943	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	-6946	-6947	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	-6950	1905	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	-6953	-6954	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	-6957	-6958	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	1902	QA	ZG	2.87	555.00	3.23	555.00
19007	1921	1922	S	1902	QA	ZG	1.79	555.00	2.15	555.00
19007	1921	1922	S	1902	QA	ZG	0.72	555.00	1.44	555.00
19007	1921	1922	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19007	1922	1985	S	1902	QA	ZG	0.36	555.00	3.23	555.00
19007	1985	1986	S	1902	QA	ZG	0.00	555.00	0.67	555.00
19009	1936	1937	S	1901	QA	ZG	0.00	517.00	3.23	517.00
19009	1939	1940	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
22011	2	22	S	2214	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
22012	3	57	S	2201	QA	ZG	0.00	290.00	2.66	290.00
22012	57	-98	S	2201	QA	ZG	0.00	290.00	1.11	290.00
22012	-98	-116	S	2201	QA	ZG	0.00	290.00	0.59	290.00
22012	-116	-133	S	2201	QA	ZG	0.00	290.00	0.59	290.00
22012	-133	-150	S	2201	QA	ZG	0.00	290.00	0.59	290.00
22012	-150	-171	S	2200	QA	ZG	0.00	290.00	1.11	290.00
22012	-171	37	S	2200	QA	ZG	0.00	290.00	4.06	290.00
22017	4	58	S	2201	QA	ZG	0.00	290.00	2.66	290.00
22017	58	-102	S	2201	QA	ZG	0.00	290.00	1.11	290.00
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

19003	-6920	-6921	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	-6924	-6925	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	1902	-6928	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	-6931	-6932	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	-6935	1903	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	-6937	-6938	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	-6941	-6942	S	1902	QA	ZG	0.00	377.00	0.07	377.00
19003	-6942	1904	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	-6945	-6946	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	-6949	-6950	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	-6952	-6953	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	-6956	-6957	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
19007	1921	1922	S	1901	QA	ZG	0.00	517.00	3.23	517.00
19007	1921	1922	S	1902	QA	ZG	2.15	555.00	2.87	555.00
19007	1921	1922	S	1902	QA	ZG	1.44	555.00	1.79	555.00
19007	1921	1922	S	1902	QA	ZG	0.36	555.00	0.72	555.00
19007	1922	1985	S	1901	QA	ZG	0.00	517.00	3.23	517.00
19007	1922	1985	S	1902	QA	ZG	0.00	555.00	0.36	555.00
19009	1935	1936	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	1940	1941	S	1900	QA	ZG	0.00	517.00	3.25	517.00
22010	21	35	S	2217	QA	ZG	0.00	323.00	5.17	323.00
22011	2	22	S	2216	QA	ZG	0.00	323.00	5.55	323.00
22011	22	36	S	2217	QA	ZG	0.00	323.00	5.17	323.00
22012	3	57	S	2214	QA	ZG	0.00	323.00	2.66	323.00
22012	57	-98	S	2214	QA	ZG	0.00	323.00	1.11	323.00
22012	-98	-116	S	2214	QA	ZG	0.00	323.00	0.59	323.00
22012	-116	-133	S	2214	QA	ZG	0.00	323.00	0.59	323.00
22012	-133	-150	S	2214	QA	ZG	0.00	323.00	0.59	323.00
22012	-150	-171	S	2215	QA	ZG	0.00	323.00	1.11	323.00
22012	-171	37	S	2215	QA	ZG	0.00	323.00	4.06	323.00
22017	4	58	S	2218	QA	ZG	0.00	325.00	2.66	325.00
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

Relazione di calcolo

22020	7	25	S	2210	QA	ZG	0.00	325.00	5.55	325.00
30008	387	388	S	308	QA	ZG	0.00	555.00	0.65	555.00
30008	388	323	S	308	QA	ZG	0.00	555.00	3.25	555.00
30008	323	324	S	308	QA	ZG	0.00	555.00	3.25	555.00
30008	324	325	S	308	QA	ZG	0.00	555.00	3.25	555.00
50008	588	523	S	501	QA	ZG	0.00	517.00	3.25	517.00
50008	523	524	S	501	QA	ZG	0.00	517.00	3.25	517.00
50008	524	525	S	501	QA	ZG	0.00	517.00	3.25	517.00
70008	787	788	S	708	QA	ZG	0.00	555.00	0.65	555.00
70008	788	723	S	708	QA	ZG	0.00	555.00	3.25	555.00
70008	723	724	S	708	QA	ZG	0.00	555.00	3.25	555.00
70008	724	725	S	708	QA	ZG	0.00	555.00	3.25	555.00
90008	988	923	S	901	QA	ZG	0.00	517.00	3.25	517.00
90008	923	924	S	901	QA	ZG	0.00	517.00	3.25	517.00
90008	924	925	S	901	QA	ZG	0.00	517.00	3.25	517.00
110008	1187	1188	S	1101	QA	ZG	0.00	555.00	0.65	555.00
110008	1188	1123	S	1102	QA	ZG	0.00	517.00	3.25	517.00
110008	1123	1124	S	1102	QA	ZG	0.00	517.00	3.25	517.00
110008	1124	1125	S	1102	QA	ZG	0.00	517.00	3.25	517.00
130008	1388	1323	S	1300	QA	ZG	0.00	555.00	3.25	555.00
130008	1323	1324	S	1300	QA	ZG	0.00	555.00	3.25	555.00
130008	1324	1325	S	1300	QA	ZG	0.00	555.00	3.25	555.00
150008	1587	1588	S	1500	QA	ZG	0.00	555.00	0.65	555.00
150008	1588	1523	S	1500	QA	ZG	0.00	555.00	3.25	555.00
150008	1523	1524	S	1500	QA	ZG	0.00	555.00	3.25	555.00
150008	1524	1525	S	1500	QA	ZG	0.00	555.00	3.25	555.00
170008	1788	1723	S	1700	QA	ZG	0.00	555.00	3.25	555.00
170008	1723	1724	S	1700	QA	ZG	0.00	555.00	3.25	555.00
170008	1724	1725	S	1700	QA	ZG	0.00	555.00	3.25	555.00
190008	1987	1988	S	1902	QA	ZG	0.00	555.00	0.65	555.00
190008	1988	1923	S	1902	QA	ZG	0.00	555.00	3.25	555.00
190008	1923	1924	S	1902	QA	ZG	0.00	555.00	3.25	555.00
190008	1924	1925	S	1902	QA	ZG	0.00	555.00	3.25	555.00
22020	25	41	S	2211	QA	ZG	0.00	325.00	5.17	325.00
30008	388	323	S	301	QA	ZG	0.00	517.00	3.25	517.00
30008	323	324	S	301	QA	ZG	0.00	517.00	3.25	517.00
30008	324	325	S	301	QA	ZG	0.00	517.00	3.25	517.00
50008	587	588	S	508	QA	ZG	0.00	555.00	0.65	555.00
50008	588	523	S	508	QA	ZG	0.00	555.00	3.25	555.00
50008	523	524	S	508	QA	ZG	0.00	555.00	3.25	555.00
50008	524	525	S	508	QA	ZG	0.00	555.00	3.25	555.00
70008	788	723	S	701	QA	ZG	0.00	517.00	3.25	517.00
70008	723	724	S	701	QA	ZG	0.00	517.00	3.25	517.00
70008	724	725	S	701	QA	ZG	0.00	517.00	3.25	517.00
90008	987	988	S	908	QA	ZG	0.00	555.00	0.65	555.00
90008	988	923	S	908	QA	ZG	0.00	555.00	3.25	555.00
90008	923	924	S	908	QA	ZG	0.00	555.00	3.25	555.00
90008	924	925	S	908	QA	ZG	0.00	555.00	3.25	555.00
110008	1188	1123	S	1101	QA	ZG	0.00	555.00	3.25	555.00
110008	1123	1124	S	1101	QA	ZG	0.00	555.00	3.25	555.00
110008	1124	1125	S	1101	QA	ZG	0.00	555.00	3.25	555.00
130008	1387	1388	S	1300	QA	ZG	0.00	555.00	0.65	555.00
130008	1388	1323	S	1302	QA	ZG	0.00	517.00	3.25	517.00
130008	1323	1324	S	1302	QA	ZG	0.00	517.00	3.25	517.00
130008	1324	1325	S	1302	QA	ZG	0.00	517.00	3.25	517.00
150008	1588	1523	S	1502	QA	ZG	0.00	517.00	3.25	517.00
150008	1523	1524	S	1502	QA	ZG	0.00	517.00	3.25	517.00
150008	1524	1525	S	1502	QA	ZG	0.00	517.00	3.25	517.00
170008	1787	1788	S	1700	QA	ZG	0.00	555.00	0.65	555.00
170008	1788	1723	S	1702	QA	ZG	0.00	517.00	3.25	517.00
170008	1723	1724	S	1702	QA	ZG	0.00	517.00	3.25	517.00
170008	1724	1725	S	1702	QA	ZG	0.00	517.00	3.25	517.00
190008	1988	1923	S	1900	QA	ZG	0.00	517.00	3.25	517.00
190008	1923	1924	S	1900	QA	ZG	0.00	517.00	3.25	517.00
190008	1924	1925	S	1900	QA	ZG	0.00	517.00	3.25	517.00

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
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	-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
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
190008	1987	1988	S	1902	QA2	ZG	0.00	222.00	0.65	222.00
190008	1988	1923	S	1902	QA2	ZG	0.00	222.00	3.25	222.00
190008	1923	1924	S	1902	QA2	ZG	0.00	222.00	3.25	222.00
190008	1924	1925	S	1902	QA2	ZG	0.00	222.00	3.25	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
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
190008	1988	1923	S	1900	QA2	ZG	0.00	206.80	3.25	206.80
190008	1923	1924	S	1900	QA2	ZG	0.00	206.80	3.25	206.80
190008	1924	1925	S	1900	QA2	ZG	0.00	206.80	3.25	206.80

Condizione di carico n. 5: Scale perm non strutturale

Carichi distribuiti

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

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

Condizione di carico n. 6: scale variabile

Carichi distribuiti

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

Asta	N1	N2	E	N	T	D	C	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
4012	397	453	--	M	Z	G		0.00	468.00	2.44	468.00
6012	597	653	--	M	Z	G		0.00	468.00	2.44	468.00
8012	797	853	--	M	Z	G		0.00	468.00	2.44	468.00
10012	997	1053	--	M	Z	G		0.00	468.00	2.44	468.00
12012	1197	1253	--	M	Z	G		0.00	468.00	2.44	468.00
14012	1397	1453	--	M	Z	G		0.00	468.00	2.44	468.00
16012	1597	1653	--	M	Z	G		0.00	468.00	2.44	468.00
18012	1797	1853	--	M	Z	G		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. <cm>	Mat.	P <daN/mc>	PQ <daN/mq>
1	Nuclei ascensore	14.00	Calcestruzzo	2500.00	350.00
2	Balconi	20.00	Calcestruzzo	2500.00	500.00
4	Fond Ascensore	70.00	Calcestruzzo	2500.00	1750.00
9	Setti vano Scala sp.20	20.00	Calcestruzzo	2500.00	500.00

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

Simbologia

Bid. = Numero del muro/elemento bidimensionale

DC = Direzione del carico

G = secondo gli assi globali

L = secondo gli assi locali

N1 = Nodo1

N2 = Nodo2

N3 = Nodo3

N4 = Nodo4

Qx = Carico in dir. X

Qy = Carico in dir. Y

Qz = Carico in dir. Z

T = Tipo di carico

PP = Peso proprio

M = Manuale

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2289	--	--	--	--	MG		0.00	0.00	90.00
2295	--	--	--	--	MG		0.00	0.00	90.00
2301	--	--	--	--	MG		0.00	0.00	90.00
2307	--	--	--	--	MG		0.00	0.00	90.00
2313	--	--	--	--	MG		0.00	0.00	90.00

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

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

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
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	T	DC	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	T	DC	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	T	DC	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	T	DC	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

Bid.	N1	N2	N3	N4	T	DC	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

Relazione di calcolo

2327	--	--	--	--	MG	0.00	0.00	400.00	2330	--	--	--	--	MG	0.00	0.00	400.00
2333	--	--	--	--	MG	0.00	0.00	400.00	2336	--	--	--	--	MG	0.00	0.00	400.00
2339	--	--	--	--	MG	0.00	0.00	400.00	2342	--	--	--	--	MG	0.00	0.00	400.00
2345	--	--	--	--	MG	0.00	0.00	400.00	2348	--	--	--	--	MG	0.00	0.00	400.00
2349	--	--	--	--	MG	0.00	0.00	400.00	2350	--	--	--	--	MG	0.00	0.00	400.00
2351	--	--	--	--	MG	0.00	0.00	400.00	2352	--	--	--	--	MG	0.00	0.00	400.00
2353	--	--	--	--	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%
- Calcolo con offset rigidi dai nodi: No
- Uniformare i carichi variabili: No
- Massimizzare i carichi variabili: No
- Recupero carichi zone rigide: taglio e momento flettente

Opzioni del solutore

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

Dati struttura

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

Ambienti di carico

Simbologia

N = Numero
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 = Sì
N = No

Relazione di calcolo

N	Comm.	1	2	3	4	5	6	SLU	SLR	SLE	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
 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>
-7235	Max	1	SLU	179.31	1	SLU	228.06	1	SLU	50714.20	4	SLE Q	-76.84	4	SLE Q	-57.46	4	SLE Q	-2.45
-7235	Min	4	SLE Q	106.34	4	SLE Q	143.63	4	SLE Q	31516.10	1	SLU	-122.23	1	SLU	-81.78	1	SLU	-4.77
-7225	Max	1	SLU	528.22	1	SLU	192.25	1	SLU	51753.40	4	SLE Q	-63.66	1	SLU	92.75	1	SLU	3.86
-7225	Min	4	SLE Q	318.19	4	SLE Q	123.05	4	SLE Q	32080.70	1	SLU	-99.05	4	SLE Q	64.04	1	SLU	1.86
-7141	Max	1	SLU	401.97	4	SLE Q	22.70	1	SLU	50390.00	4	SLE Q	-50.86	1	SLU	4.56	4	SLE Q	-2.41
-7141	Min	4	SLE Q	239.47	1	SLU	9.14	4	SLE Q	31315.40	1	SLU	-75.06	4	SLE Q	2.66	1	SLU	-4.35
-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

Relazione di calcolo

-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	-1905.03	4	SLE Q	-1742.24	1	SLU	48059.10	1	SLU	285.02	4	SLE Q	-147.63	1	SLU	5.24
-153	Min	1	SLU	-3107.16	1	SLU	-2927.45	4	SLE Q	29835.80	4	SLE Q	155.81	4	SLE Q	-242.87	1	SLU	3.59
-152	Max	4	SLE Q	-118.85	4	SLE Q	-259.29	1	SLU	52137.60	1	SLU	133.40	4	SLE Q	-5.72	4	SLE Q	-1.90
-152	Min	1	SLU	-198.97	1	SLU	-449.29	4	SLE Q	32371.60	4	SLE Q	78.80	1	SLU	-9.17	1	SLU	-3.08
-151	Max	1	SLU	2808.95	4	SLE Q	-1979.42	1	SLU	47510.30	1	SLU	426.47	1	SLU	209.66	4	SLE Q	-5.85
-151	Min	4	SLE Q	1730.00	1	SLU	-3314.09	4	SLE Q	29507.10	4	SLE Q	242.78	4	SLE Q	128.57	1	SLU	-9.03
-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	-133.74	2	SLE R	-153.68	1	SLU	40235.90	4	SLE Q	-44.90	4	SLE Q	-45.64	1	SLU	1.55
-136	Min	1	SLU	-230.92	1	SLU	-222.60	4	SLE Q	24907.20	1	SLU	-89.80	4	SLE Q	-78.19	1	SLU	1.04
-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	216.41	1	SLU	96.24	1	SLU	40160.20	4	SLE Q	-78.26	1	SLU	67.63	4	SLE Q	-2.03
-134	Min	4	SLE Q	125.22	4	SLE Q	29.92	4	SLE Q	24861.10	1	SLU	-143.85	4	SLE Q	39.44	1	SLU	-3.30
-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	-270.61	1	SLU	629.36	1	SLU	41450.40	1	SLU	31.22	4	SLE Q	-83.25	4	SLE Q	-5.38
-119	Min	1	SLU	-451.00	4	SLE Q	435.76	4	SLE Q	25626.90	4	SLE Q	9.49	1	SLU	-138.74	1	SLU	-8.80
-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	445.85	1	SLU	634.42	1	SLU	41422.30	1	SLU	75.36	1	SLU	129.82	1	SLU	9.38
-117	Min	4	SLE Q	266.92	4	SLE Q	438.78	4	SLE Q	25610.00	4	SLE Q	36.52	4	SLE Q	77.82	1	SLU	5.69
-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	-1882.69	1	SLU	3519.93	1	SLU	51839.10	4	SLE Q	-215.24	4	SLE Q	-129.31	1	SLU	16.16
-101	Min	1	SLU	-3074.53	4	SLE Q	2124.74	4	SLE Q	32080.00	1	SLU	-377.26	4	SLE Q	-211.30	1	SLU	9.45
-100	Max	4	SLE Q	-231.40	1	SLU	1042.17	1	SLU	56300.40	4	SLE Q	-176.27	4	SLE Q	-15.29	1	SLU	1.45
-100	Min	1	SLU	-390.25	4	SLE Q	623.27	4	SLE Q	34816.90	1	SLU	-292.16	4	SLE Q	-25.71	1	SLU	0.88
-99	Max	1	SLU	2692.88	1	SLU	3879.69	1	SLU	51281.30	4	SLE Q	-282.43	1	SLU	194.05	4	SLE Q	-8.17
-99	Min	4	SLE Q	1655.14	4	SLE Q	2343.82	4	SLE Q	31747.90	1	SLU	-487.20	4	SLE Q	118.70	1	SLU	-13.96
-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	1286.92	4	SLE Q	393.05	1	SLU	200020.00	1	SLU	4305.68	1	SLU	-282.55	1	SLU	1.94
1	Min	4	SLE Q	759.14	2	SLE R	251.65	4	SLE Q	128256.00	4	SLE Q	2333.87	4	SLE Q	-477.64	1	SLU	0.48
2	Max	4	SLE Q	18.68	4	SLE Q	-611.71	1	SLU	239729.00	1	SLU	10461.80	4	SLE Q	14.73	1	SLU	1.94
2	Min	1	SLU	-6.74	1	SLU	-1107.74	4	SLE Q	151401.00	4	SLE Q	5871.67	4	SLE Q	-12.37	1	SLU	0.48
3	Max	1	SLU	93.65	4	SLE Q	-1227.28	1	SLU	273815.00	1	SLU	5139.79	1	SLU	713.13	1	SLU	1.95
3	Min	2	SLE R	85.72	1	SLU	-1848.24	4	SLE Q	176518.00	4	SLE Q	3129.31</						

Relazione di calcolo

4	Max	2	SLE R	-79.44	4	SLE Q	-1224.17	1	SLU	274370.00	1	SLU	5137.45	2	SLE R	-593.91	1	SLU	1.95
4	Min	4	SLE Q	-93.03	1	SLU	-1842.20	4	SLE Q	176802.00	4	SLE Q	3129.71	4	SLE Q	-752.05	1	SLU	0.48
5	Max	1	SLU	-18.12	4	SLE Q	-631.70	1	SLU	243009.00	1	SLU	10012.20	2	SLE R	-24.64	1	SLU	1.94
5	Min	4	SLE Q	-49.75	1	SLU	-1133.64	4	SLE Q	152860.00	4	SLE Q	5628.13	4	SLE Q	-61.73	1	SLU	0.48
6	Max	4	SLE Q	-260.55	4	SLE Q	-456.51	1	SLU	224731.00	1	SLU	9682.42	4	SLE Q	-411.57	1	SLU	1.94
6	Min	1	SLU	-488.68	1	SLU	-839.42	4	SLE Q	141752.00	4	SLE Q	5433.83	4	SLE Q	-699.45	1	SLU	0.48
7	Max	4	SLE Q	-504.53	1	SLU	358.15	1	SLU	113872.00	1	SLU	4434.17	1	SLU	2228.35	1	SLU	1.07
7	Min	1	SLU	-811.55	4	SLE Q	250.20	4	SLE Q	74563.50	4	SLE Q	2559.53	4	SLE Q	1770.29	1	SLU	0.26
21	Max	1	SLU	421.02	2	SLE R	-193.92	1	SLU	222152.00	4	SLE Q	-1811.73	2	SLE R	-1487.98	1	SLU	3.22
21	Min	4	SLE Q	236.86	1	SLU	-289.49	4	SLE Q	145622.00	1	SLU	-3214.49	4	SLE Q	-1892.53	1	SLU	0.79
22	Max	1	SLU	180.65	1	SLU	84.52	1	SLU	210509.00	4	SLE Q	-2410.09	1	SLU	2159.65	1	SLU	0.81
22	Min	4	SLE Q	102.17	4	SLE Q	50.80	4	SLE Q	124189.00	1	SLU	-4256.05	4	SLE Q	1620.27	1	SLU	0.20
23	Max	4	SLE Q	-131.99	1	SLU	334.18	1	SLU	212300.00	4	SLE Q	-3429.22	4	SLE Q	-2080.44	1	SLU	3.22
23	Min	1	SLU	-231.44	4	SLE Q	194.99	4	SLE Q	125788.00	1	SLU	-6048.77	4	SLE Q	-2772.94	1	SLU	0.79
24	Max	4	SLE Q	-165.47	1	SLU	342.66	1	SLU	226182.00	4	SLE Q	-3435.98	4	SLE Q	-332.34	1	SLU	3.22
24	Min	1	SLU	-291.53	4	SLE Q	198.66	4	SLE Q	134025.00	1	SLU	-6069.51	4	SLE Q	-518.66	1	SLU	0.79
25	Max	4	SLE Q	-232.55	1	SLU	157.98	1	SLU	143577.00	4	SLE Q	-2042.15	1	SLU	3384.95	1	SLU	1.54
25	Min	1	SLU	-409.12	4	SLE Q	71.01	4	SLE Q	90446.00	1	SLU	-3542.06	4	SLE Q	2637.98	1	SLU	0.38
35	Max	1	SLU	803.63	2	SLE R	-718.26	1	SLU	141468.00	4	SLE Q	-2797.81	2	SLE R	-269.72	1	SLU	2.10
35	Min	4	SLE Q	495.52	1	SLU	-1031.83	4	SLE Q	93988.30	1	SLU	-5024.71	4	SLE Q	-346.14	1	SLU	0.52
36	Max	1	SLU	280.37	1	SLU	156.09	1	SLU	173501.00	4	SLE Q	-6096.04	1	SLU	156.29	1	SLU	2.10
36	Min	4	SLE Q	153.50	4	SLE Q	91.49	4	SLE Q	110876.00	1	SLU	-10785.50	4	SLE Q	57.16	1	SLU	0.52
37	Max	1	SLU	2504.17	1	SLU	1473.16	1	SLU	108241.00	4	SLE Q	-3458.41	1	SLU	2049.76	4	SLE Q	-9.48
37	Min	4	SLE Q	1544.46	4	SLE Q	899.87	4	SLE Q	67258.60	1	SLU	-5965.32	4	SLE Q	1540.70	1	SLU	-17.37
38	Max	4	SLE Q	-1289.20	1	SLU	1238.81	1	SLU	111648.00	4	SLE Q	-3392.72	4	SLE Q	-1517.56	1	SLU	17.01
38	Min	1	SLU	-2091.16	4	SLE Q	760.48	4	SLE Q	69090.40	1	SLU	-5857.89	4	SLE Q	-2008.63	1	SLU	8.48
39	Max	4	SLE Q	-177.65	1	SLU	180.45	1	SLU	177258.00	4	SLE Q	-6145.02	4	SLE Q	-102.61	1	SLU	2.10
39	Min	1	SLU	-309.44	4	SLE Q	105.48	4	SLE Q	112563.00	1	SLU	-10884.40	4	SLE Q	-226.15	1	SLU	0.52
40	Max	4	SLE Q	9.80	1	SLU	165.44	1	SLU	172511.00	4	SLE Q	-6135.20	4	SLE Q	-75.24	1	SLU	2.10
40	Min	1	SLU	0.22	4	SLE Q	95.05	4	SLE Q	110699.00	1	SLU	-10874.20	4	SLE Q	-118.21	1	SLU	0.52
41	Max	4	SLE Q	-403.16	2	SLE R	-83.54	1	SLU	92895.30	4	SLE Q	-3449.31	1	SLU	1356.63	1	SLU	1.07
41	Min	1	SLU	-648.79	4	SLE Q	-102.49	4	SLE Q	60965.80	1	SLU	-5978.29	4	SLE Q	1092.24	1	SLU	0.26
55	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2651.98	1	SLU	0.00	2	SLE R	-544.00	1	SLU	0.00
55	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	2039.98	1	SLU	0.00	1	SLU	-707.19	1	SLU	0.00
57	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	5855.19	4	SLE Q	-482.62	1	SLU	0.00	1	SLU	0.00
57	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	3512.56	1	SLU	-840.07	1	SLU	0.00	1	SLU	0.00
58	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	5868.99	4	SLE Q	-483.83	1	SLU	0.00	1	SLU	0.00
58	Min	1	SLU	0.00	1	SLU	0.00	4	SLE Q	3519.94	1	SLU	-842.34	1	SLU	0.00	1	SLU	0.00
61	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	3244.78	1	SLU	0.00	2	SLE R	-665.59	1	SLU	0.00
61	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	2495.98	1	SLU	0.00	1	SLU	-865.27	1	SLU	0.00
62	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	3447.57	1	SLU	0.00	1	SLU	976.81	1	SLU	0.00
62	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	2651.98	1	SLU	0.00	2	SLE R	751.39	1	SLU	0.00
63	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	2798.63	1	SLU	0.00	2	SLE R	-495.14	1	SLU	0.00
63	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	2152.79	1	SLU	0.00	1	SLU	-643.68	1	SLU	0.00
67	Max	1	SLU	0.00	1	SLU	0.00	1	SLU	1767.99	1	SLU	0.00	2	SLE R	-362.66	1	SLU	0.00
67	Min	1	SLU	0.00	1	SLU	0.00	2	SLE R	1359.99	1	SLU	0.00	1	SLU	-471.46	1	SLU	0.00

Verifiche e armature travi

Simbologia

Δ_{sm}	=Distanza media tra le fessure
$\Delta\%$	=Incremento percentuale sicurezza
Φ_{eq}	=Diametro equivalente delle barre
ϵ_{sm}	=Deformazione unitaria media dell'armatura (*1000)
σ_c	=Tensione nel calcestruzzo
$\sigma_f \text{ inf}$	=Tensione nel ferro - inferiore
$\sigma_f \text{ sup}$	=Tensione nel ferro - superiore
σ_s	=Tensione nell'acciaio nella sezione fessurata
$A_{c \text{ eff}}$	=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
Cls	=Tipo di calcestruzzo
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

Relazione di calcolo

Fck	=Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fcm	=Resistenza media
Fctd	=Resistenza di calcolo a trazione del calcestruzzo
Fctk	=Resistenza caratteristica 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
Fyk	=Tensione caratteristica di snervamento dell'acciaio
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
	2I = Doppia I
	L = Sezione a L
	Ldx = L destra
	R = Rettangolare
	Rc = Rettangolare cava
	T = Sezione a T
Tp	=Tipo di acciaio
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>	
3.321	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-3536.58	-13043.50	3.688

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	2	SLE R	3	52.50	6.16	3.08	-2467.96	721.86	-280.18	22.71
3.324	4	SLE Q	3	52.50	6.16	3.08	-1773.18	518.64	-201.31	16.32

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	4	SLE Q	3	16	52.50	-1773.18	28.00	31.33	0.50	14.00	87.83	6.16	140.00	518.64	0.15	0.02
4	3.323	3	SLE F	3	16	52.50	-1971.77	28.00	31.33	0.50	14.00	87.83	6.16	140.00	576.73	0.17	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	3078.03	2.50	7619.38	26714.30	2.475
1	SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1831.14	2.50	7619.38	26714.30	7619.38
1	SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	4833.22	2.50	15238.80	26714.30	15238.80

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	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	15.30	1506.47	98.440
1.441	SLU	5	1	0.00	3.08	3.08	3.08	3.08	74.73	1506.47	20.159
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	15.95	1506.47	94.436

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	1	0.00	3.08	3.08	11.01	-6.90	29.20	1.23
0.004	SLE Q	1	1	0.00	3.08	3.08	8.59	-5.38	22.77	0.96
1.442	SLE R	5	5	0.00	3.08	3.08	53.27	-33.38	141.28	5.93
1.444	SLE Q	5	5	0.00	3.08	3.08	40.59	-25.43	107.66	4.52
3.232	SLE R	9	35.89	3.08	3.08	3.08	11.42	-7.15	30.28	1.27
3.234	SLE Q	9	35.89	3.08	3.08	3.08	9.08	-5.69	24.07	1.01

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 q>	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	8.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	22.77	0.01	0.00
4	0.003	SLE	F	1	19	0.00	9.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	24.61	0.01	0.00
7	1.444	SLE	Q	5	19	0.00	40.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	107.66	0.03	0.00
8	1.443	SLE	F	5	19	0.00	44.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	117.25	0.03	0.01
11	3.234	SLE	Q	9	19	35.89	9.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	24.07	0.01	0.00
12	3.233	SLE	F	9	19	35.89	9.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	25.84	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	48.38	2.50	7185.75	7873.13	7185.75	>100
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	30.63	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	55.14	2.50	7185.75	7873.13	7185.75	>100

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>
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	1	0.00	3.08	3.08	3.08	3.08	40.10	1506.47	37.571
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	-84.85	-1506.47	17.755

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	1	0.00	3.08	3.08	28.51	-17.87	75.62	3.17
0.004	SLE Q	1	1	0.00	3.08	3.08	-21.44	56.86	-13.43	2.39
3.232	SLE R	9	35.89	3.08	3.08	3.08	-60.03	159.20	-37.61	6.68
3.234	SLE Q	9	35.89	3.08	3.08	3.08	-44.93	119.16	-28.15	5.00

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 ² >	ε _{sm}	Wk <mm>
5	0.004	SLE	Q	1	19	0.00	-21.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.86	0.02	0.00
7	0.003	SLE	F	1	19	0.00	-21.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	57.74	0.02	0.00
11	3.234	SLE	Q	9	19	35.89	-44.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	119.16	0.03	0.01
12	3.233	SLE	F	9	19	35.89	-49.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	130.60	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	418.88	2.50	7185.75	7873.13	7185.75	17.155
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	418.88	2.50	7185.75	7873.13	7185.75	17.155
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	168.81	2.50	7185.75	7873.13	7185.75	42.568

Travata n. 11011

Nodi: 1156 -3506 -3593 1173 -3801 1102

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.43	3.08	3.08	3.08	3.08	3.08	-350.29	-1506.47	4.301

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	3.08	3.08	-253.80	673.11	-159.02		28.25
1.904	SLE Q	5	35.43	3.08	3.08	-195.05	517.29	-122.21		21.71

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	1.904	SLE Q	5	19	35.43	-195.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	517.29	0.15	0.02	
4	1.903	SLE F	5	19	35.43	-211.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	561.82	0.16	0.03	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	393.24	2.50	7185.75	7873.13	18.273
1	SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	410.21	2.50	7185.75	7873.13	17.517

Travata n. 11012

Nodi: 1185 -3998 1197 1137

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-548.84	-2142.71	3.904

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	-392.17	714.39	-191.58		25.21
4.824	SLE Q	3	332.00	3.08	3.08	-310.14	564.95	-151.51		19.93

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	-310.14	28.00	114.00	0.50	14.00	102.12	3.08	101.43		564.95	0.16	0.03
4	4.823	SLE F	3	18	332.00	-333.55	28.00	114.00	0.50	14.00	102.12	3.08	101.43		607.60	0.18	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1	SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2033.30	2.50	7619.38	26714.30	3.747
1	SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	474.74	2.50	5079.58	10017.90	10.700
1	SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	503.53	2.50	5079.58	10017.90	10.088

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>
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>	

Relazione di calcolo

1.90	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-6972.80	-9551.64	1.370
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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	35.41	6.03	4.02	-5221.89	2043.72	-568.41	52.07
1.90	4	SLE Q	5	35.41	6.03	4.02	-4700.16	1839.52	-511.62	46.87

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	30	35.41	-4700.16	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1839.52	0.73	0.15
4	1.90	3	SLE F	5	30	35.41	-4849.22	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1897.86	0.68	0.14

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>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	3118.54	2.50	10241.80	20904.00	10241.80	3.284
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3926.39	2.50	10241.80	20904.00	10241.80	2.608

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>	
1.90	1	SLU	5	35.43	6.03	4.02	6.03	4.02	-6983.02	-9551.64	1.368

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	6.03	4.02	-5228.01	2046.11	-569.08	52.13
1.90	4	SLE Q	5	35.43	6.03	4.02	-4708.31	1842.71	-512.51	46.95

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	30	35.43	-4708.31	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1842.71	0.73	0.15
4	1.90	3	SLE F	5	30	35.43	-4856.80	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1900.83	0.68	0.14

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>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	3142.18	2.50	10241.80	20904.00	10241.80	3.259
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3936.96	2.50	10241.80	20904.00	10241.80	2.601

Travata n. 11017

Nodi: 1188 -4002 1198 1138

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	-422.62	-2142.71	5.070

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	-302.56	551.14	-147.80	19.45
4.82	4	SLE Q	3	332.00	3.08	3.08	-235.25	428.53	-114.92	15.12

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	-235.25	28.00	114.00	0.50	14.00	102.12	3.08	101.43	428.53	0.12	0.02
4	4.82	3	SLE F	3	18	332.00	-254.51	28.00	114.00	0.50	14.00	102.12	3.08	101.43	463.62	0.14	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	1108.20	2.50	7619.38	26714.30	7619.38	6.875
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	394.21	2.50	5079.58	10017.90	5079.58	12.886
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	422.99	2.50	5079.58	10017.90	5079.58	12.009

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>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-376.05	-1506.47	4.006

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>	σ _f inf <daN/cm>	σ _c <daN/cm>
1.90	2	SLE R	5	35.44	3.08	3.08	-271.79	720.83	-170.30	30.26
1.90	4	SLE Q	5	35.44	3.08	3.08	-211.98	562.21	-132.82	23.60

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>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	35.44	-211.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	562.21	0.16	0.03
4	1.90	3	SLE F	5	19	35.44	-229.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	607.53	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	413.54	2.50	7185.75	7873.13	7185.75	17.376
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	430.50	2.50	7185.75	7873.13	7185.75	16.692

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>
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	-518.17	-1506.47	2.907

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>	σ _f inf <daN/cm>	σ _c <daN/cm>
1.90	2	SLE R	5	38.00	3.08	3.08	-374.75	993.90	-234.81	41.72
1.90	4	SLE Q	5	38.00	3.08	3.08	-288.35	764.74	-180.67	32.10

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>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	38.00	-288.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	764.74	0.22	0.04
4	1.90	3	SLE F	5	19	38.00	-313.02	28.00	134.00	0.50	14.00	93.58	3.08	82.65	830.18	0.24	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	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	366.65	2.50	7185.75	7873.13	7185.75	19.599
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	383.61	2.50	7185.75	7873.13	7185.75	18.732

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/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-199.69	-1506.47	7.544
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	198.73	1506.47	7.580
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-198.28	-1506.47	7.598

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>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-151.14	400.84	-94.70	16.82
0.00	4	SLE Q	1	0.00	3.08	3.08	-142.21	377.15	-89.10	15.83
1.45	2	SLE R	5	0.00	3.08	3.08	149.66	-93.77	396.91	16.66
1.45	4	SLE Q	5	0.00	3.08	3.08	137.29	-86.02	364.11	15.28
2.90	2	SLE R	8	36.25	3.08	3.08	-150.07	398.02	-94.03	16.71
2.90	4	SLE Q	8	36.25	3.08	3.08	-141.36	374.91	-88.57	15.74

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>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-142.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	377.15	0.11	0.02
4	0.00	3	SLE F	1	19	0.00	-144.76	28.00	134.00	0.50	14.00	93.58	3.08	82.65	383.92	0.11	0.02
7	1.45	4	SLE Q	5	19	0.00	137.29	28.00	134.00	0.50	14.00	93.58	3.08	82.65	364.11	0.11	0.02
8	1.45	3	SLE F	5	19	0.00	140.82	28.00	134.00	0.50	14.00	93.58	3.08	82.65	373.48	0.11	0.02
11	2.90	4	SLE Q	8	19	36.25	-141.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	374.91	0.11	0.02
12	2.90	3	SLE F	8	19	36.25	-143.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	381.51	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	900.97	2.50	7185.75	7873.13	7185.75	7.976
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	601.25	2.50	7185.75	7873.13	7185.75	11.951
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	898.79	2.50	7185.75	7873.13	7185.75	7.995

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/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-92.46	-1506.47	16.294
1.81	1	SLU	5	36.11	3.08	3.08	3.08	3.08	35.16	1506.47	42.850
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-41.74	-1506.47	36.095

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>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-65.41	173.48	-40.98	7.28
0.00	4	SLE Q	1	0.00	3.08	3.08	-49.55	131.41	-31.05	5.52
1.81	2	SLE R	5	36.11	3.08	3.08	24.65	-15.45	65.38	2.74
1.81	4	SLE Q	5	36.11	3.08	3.08	19.96	-12.51	52.94	2.22
3.25	2	SLE R	9	36.11	3.08	3.08	-30.47	80.80	-19.09	3.39
3.25	4	SLE Q	9	36.11	3.08	3.08	-28.05	74.38	-17.57	3.12

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>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-49.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	131.41	0.04	0.01
4	0.00	3	SLE F	1	19	0.00	-54.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	143.42	0.04	0.01
7	1.81	4	SLE Q	5	19	36.11	19.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.94	0.02	0.00

Relazione di calcolo

8	1.81	3	SLE F	5	19	36.11	21.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	56.50	0.02	0.00
14	3.25	4	SLE Q	9	19	36.11	-28.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	74.38	0.02	0.00
16	3.25	3	SLE F	9	19	36.11	-28.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	76.22	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	152.25	2.50	7185.75	7873.13	7185.75	47.197
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	451.80	2.50	7185.75	7873.13	7185.75	15.905
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	451.80	2.50	7185.75	7873.13	7185.75	15.905

Travata n. 11060

Nodi: 1198 1054 -3322 1038

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	3.08	-3755.45	-6639.53	1.768

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	3.08	3.08	-2623.33	1495.08	-347.56		30.58
3.324	SLE Q	3	52.50	3.08	3.08	-1906.46	1086.52	-252.58		22.23

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	3.324	SLE	Q	3	16	52.50	-1906.46	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1086.52	0.32	0.06
4	3.323	SLE	F	3	16	52.50	-2111.22	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1203.22	0.35	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	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	2642.63	2.50	7619.38	26714.30	7619.38	2.883
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	394.14	2.50	7619.38	26714.30	7619.38	19.332
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	4937.64	2.50	15238.80	26714.30	15238.80	3.086

Travata n. 11087

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	12.25	1506.47	>100
1.621	SLU	5	18.06	3.08	3.08	3.08	3.08	3.08	69.26	1506.47	21.752
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	15.38	1506.47	97.966

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	8.79	-5.51	23.31		0.98
0.004	SLE Q	1	0.00	3.08	3.08	6.71	-4.20	17.79		0.75
1.622	SLE R	5	18.06	3.08	3.08	49.28	-30.88	130.71		5.49
1.624	SLE Q	5	18.06	3.08	3.08	36.62	-22.95	97.13		4.08
3.252	SLE R	9	36.11	3.08	3.08	11.04	-6.92	29.28		1.23
3.254	SLE Q	9	36.11	3.08	3.08	8.58	-5.37	22.75		0.95

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	6.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65	17.79	0.01	0.00	
4	0.003	SLE F	1	19	0.00	7.30	28.00	134.00	0.50	14.00	93.58	3.08	82.65	19.36	0.01	0.00	

Relazione di calcolo

7	1.62	4	SLE Q	5	19	18.06	36.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	97.13	0.03	0.00
8	1.62	3	SLE F	5	19	18.06	40.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	106.68	0.03	0.00
11	3.25	4	SLE Q	9	19	36.11	8.58	28.00	134.00	0.50	14.00	93.58	3.08	82.65	22.75	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	9.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	24.61	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	57.09	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	32.59	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	44.89	2.50	7185.75	7873.13	7185.75	>100

Travata n. 12012

Nodi: 1197 1253 -4085 1237

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-2754.53	-13043.50	4.735	

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	6.16	3.08	-1917.82	560.95	-217.73	17.65
3.324	SLE	Q	3	52.50	6.16	3.08	-1342.26	392.60	-152.38	12.35

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	-1342.26	28.00	31.33	0.50	14.00	87.83	6.16	140.00		392.60	0.11	0.02
4	3.323	SLE F	3	16	52.50	-1506.89	28.00	31.33	0.50	14.00	87.83	6.16	140.00		440.76	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	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	2546.60	2.50	7619.38	26714.30	7619.38	2.992
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1425.74	2.50	7619.38	26714.30	7619.38	5.344
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	4012.16	2.50	15238.80	26714.30	15238.80	3.798

Travata n. 13001

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	17.62	1506.47	85.514
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	86.47	1506.47	17.421
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	19.33	1506.47	77.938

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	12.66	-7.93	33.58	1.41	
0.004	SLE Q	1	0.00	3.08	3.08	9.94	-6.23	26.36	1.11	
1.442	SLE R	5	0.00	3.08	3.08	61.65	-38.63	163.50	6.86	
1.444	SLE Q	5	0.00	3.08	3.08	47.50	-29.76	125.98	5.29	
3.232	SLE R	9	35.89	3.08	3.08	13.82	-8.66	36.66	1.54	
3.234	SLE Q	9	35.89	3.08	3.08	11.08	-6.94	29.39	1.23	

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}	W _k <mm>
3	0.004	SLE Q	1	19	0.00	9.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	26.36	0.01	0.00	

Relazione di calcolo

4	0.00	3	SLE F	1	19	0.00	10.72	28.00	134.00	0.50	14.00	93.58	3.08	82.65	28.43	0.01	0.00
7	1.44	4	SLE Q	5	19	0.00	47.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	125.98	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	51.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	136.66	0.04	0.01
11	3.23	4	SLE Q	9	19	35.89	11.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	29.39	0.01	0.00
12	3.23	3	SLE F	9	19	35.89	11.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	31.46	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	49.50	2.50	7185.75	7873.13	7185.75	>100
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	33.92	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	58.43	2.50	7185.75	7873.13	7185.75	>100

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/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	75.69	1506.47	19.903
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-108.62	-1506.47	13.869

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	54.01	-33.84	143.24	6.01
0.00	4	SLE Q	1	0.00	3.08	3.08	36.62	-22.94	97.12	4.08
3.23	2	SLE R	9	35.89	3.08	3.08	-77.02	204.26	-48.26	8.57
3.23	4	SLE Q	9	35.89	3.08	3.08	-59.31	157.29	-37.16	6.60

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>
6	0.00	4	SLE Q	1	19	0.00	36.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	97.12	0.03	0.00
8	0.00	3	SLE F	1	19	0.00	41.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	110.20	0.03	0.01
11	3.23	4	SLE Q	9	19	35.89	-59.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	157.29	0.05	0.01
12	3.23	3	SLE F	9	19	35.89	-64.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	170.68	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	445.36	2.50	7185.75	7873.13	7185.75	16.135
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	445.36	2.50	7185.75	7873.13	7185.75	16.135
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	158.35	2.50	7185.75	7873.13	7185.75	45.379

Travata n. 13011

Nodi: 1356 -4271 -4358 1373 -4566 1302

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.
1.90	1	SLU	5	35.43	3.08	3.08	3.08	3.08	-355.29	-1506.47	4.240

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	35.43	3.08	3.08	-257.44	682.77	-161.30	28.66
1.90	4	SLE Q	5	35.43	3.08	3.08	-197.94	524.98	-124.03	22.04

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	-197.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	524.98	0.15	0.02

Relazione di calcolo

4	1.90	3	SLE F	5	19	35.43	-214.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	570.07	0.17	0.03
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Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	403.88	2.50	7185.75	7873.13	7185.75	17.792
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	420.84	2.50	7185.75	7873.13	7185.75	17.075

Travata n. 13012

Nodi: 1385 -4763 1397 1337

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-506.46	-2142.71	4.231

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>
4.82	2	SLE R	3	332.00	3.08	3.08	-361.89	659.23	-176.79	23.26
4.82	4	SLE Q	3	332.00	3.08	3.08	-282.75	515.06	-138.13	18.17

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	4.82	4	SLE Q	3	18	332.00	-282.75	28.00	114.00	0.50	14.00	102.12	3.08	101.43	515.06	0.15	0.03
4	4.82	3	SLE F	3	18	332.00	-305.35	28.00	114.00	0.50	14.00	102.12	3.08	101.43	556.23	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	1988.79	2.50	7619.38	26714.30	7619.38	3.831
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	453.71	2.50	5079.58	10017.90	5079.58	11.196
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	482.49	2.50	5079.58	10017.90	5079.58	10.528

Travata n. 13013

Nodi: 1357 -4272 -4359 1374 -4567 1303

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	-6932.79	-9551.64	1.378

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	-5193.37	2032.56	-565.31	51.78
1.90	4	SLE Q	5	35.41	6.03	4.02	-4675.71	1829.95	-508.96	46.62

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	1.90	4	SLE Q	5	30	35.41	-4675.71	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1829.95	0.73	0.15
4	1.90	3	SLE F	5	30	35.41	-4823.63	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1887.85	0.68	0.14

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	3120.44	2.50	10241.80	20904.00	10241.80	3.282
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3819.67	2.50	10241.80	20904.00	10241.80	2.681

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>
30	R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.43	6.03	4.02	6.03	4.02	-6942.39	-9551.64	1.376

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	6.03	4.02	-5199.01	2034.76	-565.92	51.84
1.90	4	SLE Q	5	35.43	6.03	4.02	-4683.82	1833.13	-509.84	46.70

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	30	35.43	-4683.82	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1833.13	0.73	0.15
4	1.90	3	SLE F	5	30	35.43	-4831.05	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1890.75	0.68	0.14

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	3140.28	2.50	10241.80	20904.00	10241.80	3.261
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3825.76	2.50	10241.80	20904.00	10241.80	2.677

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>
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	-409.77	-2142.71	5.229

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	-293.03	533.79	-143.15	18.83
4.82	4	SLE Q	3	332.00	3.08	3.08	-224.11	408.24	-109.48	14.40

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	-224.11	28.00	114.00	0.50	14.00	102.12	3.08	101.43	408.24	0.12	0.02
4	4.82	3	SLE F	3	18	332.00	-243.86	28.00	114.00	0.50	14.00	102.12	3.08	101.43	444.23	0.13	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	1340.10	2.50	7619.38	26714.30	7619.38	5.686
1	SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	394.07	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	422.86	2.50	5079.58	10017.90	5079.58	12.013

Travata n. 13018

Nodi: 1359 -4274 -4361 1376 -4569 1305

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	35.44	3.08	3.08	3.08	3.08	-379.73	-1506.47	3.967

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	35.44	3.08	3.08	-274.43	727.82	-171.95	30.55
1.904	SLE Q		5	35.44	3.08	3.08	-214.19	568.05	-134.20	23.84

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	19	35.44	-214.19	28.00	134.00	0.50	14.00	93.58	3.08	82.65	568.05	0.17	0.03
4	1.903	SLE F		5	19	35.44	-231.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	613.69	0.18	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	422.66	2.50	7185.75	7873.13	7185.75	17.001
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	439.62	2.50	7185.75	7873.13	7185.75	16.345

Travata n. 13019

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	38.00	3.08	3.08	3.08	3.08	-538.37	-1506.47	2.798

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	-389.06	1031.85	-243.77	43.31
1.904	SLE Q		5	38.00	3.08	3.08	-299.90	795.37	-187.91	33.38

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	1.904	SLE Q		5	19	38.00	-299.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	795.37	0.23	0.04
4	1.903	SLE F		5	19	38.00	-325.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	862.87	0.25	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	417.94	2.50	7185.75	7873.13	7185.75	17.193
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	434.90	2.50	7185.75	7873.13	7185.75	16.523

Travata n. 13044

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

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	-203.41	-1506.47	7.406
1.271	SLU		4	18.12	3.08	3.08	3.08	3.08	191.94	1506.47	7.849
2.901	SLU		8	36.25	3.08	3.08	3.08	3.08	-202.53	-1506.47	7.438

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	-153.73	407.72	-96.32	17.11

Relazione di calcolo

0.004	SLE Q	1	0.00	3.08	3.08	-144.33	382.79	-90.43	16.07
1.272	SLE R	4	18.12	3.08	3.08	144.89	-90.78	384.26	16.13
1.274	SLE Q	4	18.12	3.08	3.08	133.41	-83.59	353.83	14.85
2.902	SLE R	8	36.25	3.08	3.08	-153.06	405.93	-95.90	17.04
2.904	SLE Q	8	36.25	3.08	3.08	-143.79	381.35	-90.09	16.01

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	-144.33	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	382.79	0.11	0.02
4	0.003	SLE F	1	19	0.00	-147.01	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	389.90	0.11	0.02
7	1.274	SLE Q	4	19	18.12	133.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	353.83	0.10	0.02
8	1.273	SLE F	4	19	18.12	136.69	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	362.54	0.11	0.02
11	2.904	SLE Q	8	19	36.25	-143.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	381.35	0.11	0.02
12	2.903	SLE F	8	19	36.25	-146.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	388.37	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	899.69	2.50	7185.75	7873.13	7185.75	7.987
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	599.98	2.50	7185.75	7873.13	7185.75	11.977
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	898.03	2.50	7185.75	7873.13	7185.75	8.002

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>
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	-115.36	-1506.47	13.059
3.211	SLU	9	32.51	3.08	3.08	3.08	3.08	3.08	64.10	1506.47	23.502
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	64.10	1506.47	23.502

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	3.08	-81.76	216.85	-51.23	9.10
0.004	SLE Q	1	0.00	3.08	3.08	3.08	-63.37	168.06	-39.70	7.05
3.212	SLE R	9	32.51	3.08	3.08	3.08	45.61	-28.58	120.97	5.08
3.214	SLE Q	9	32.51	3.08	3.08	3.08	30.22	-18.93	80.15	3.36
3.252	SLE R	9	36.11	3.08	3.08	3.08	45.61	-28.58	120.97	5.08
3.254	SLE Q	9	36.11	3.08	3.08	3.08	30.22	-18.93	80.15	3.36

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	-63.37	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	168.06	0.05	0.01
4	0.003	SLE F	1	19	0.00	-68.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	181.94	0.05	0.01
9	3.214	SLE Q	9	19	32.51	30.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	80.15	0.02	0.00
11	3.213	SLE F	9	19	32.51	34.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	91.77	0.03	0.00
17	3.254	SLE Q	9	19	36.11	30.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	80.15	0.02	0.00
19	3.253	SLE F	9	19	36.11	34.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.65	91.77	0.03	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	145.01	2.50	7185.75	7873.13	7185.75	49.555
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	473.21	2.50	7185.75	7873.13	7185.75	15.185
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	473.21	2.50	7185.75	7873.13	7185.75	15.185

Travata n. 13060

Nodi: 1398 1254 -4087 1238

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

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>	
3.32	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-2858.34	-6639.53	2.323

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>
3.32	2	SLE R	3	52.50	3.08	3.08	-1991.02	1134.72	-263.78	23.21
3.32	4	SLE Q	3	52.50	3.08	3.08	-1404.55	800.48	-186.08	16.37

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	3.32	4	SLE Q	3	16	52.50	-1404.55	28.00	94.00	0.50	14.00	119.66	3.08	140.00	800.48	0.23	0.05
4	3.32	3	SLE F	3	16	52.50	-1572.23	28.00	94.00	0.50	14.00	119.66	3.08	140.00	896.03	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	1993.51	2.50	7619.38	26714.30	7619.38	3.822
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	1014.17	2.50	7619.38	26714.30	7619.38	7.513
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	3972.21	2.50	15238.80	26714.30	15238.80	3.836

Travata n. 13087

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

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	15.54	1506.47	96.943
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	81.18	1506.47	18.557
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	17.83	1506.47	84.490

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	11.13	-6.97	29.52	1.24
0.00	4	SLE Q	1	0.00	3.08	3.08	8.63	-5.41	22.89	0.96
1.62	2	SLE R	5	18.06	3.08	3.08	57.75	-36.18	153.16	6.43
1.62	4	SLE Q	5	18.06	3.08	3.08	43.53	-27.27	115.45	4.85
3.25	2	SLE R	9	36.11	3.08	3.08	12.78	-8.01	33.89	1.42
3.25	4	SLE Q	9	36.11	3.08	3.08	9.99	-6.26	26.49	1.11

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/cm^q>		<mm>
3	0.00	4	SLE Q	1	19	0.00	8.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	22.89	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	9.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	24.78	0.01	0.00
7	1.62	4	SLE Q	5	19	18.06	43.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	115.45	0.03	0.01
8	1.62	3	SLE F	5	19	18.06	47.57	28.00	134.00	0.50	14.00	93.58	3.08	82.65	126.16	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	9.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	26.49	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	10.78	28.00	134.00	0.50	14.00	93.58	3.08	82.65	28.60	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	59.86	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	35.35	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	46.36	2.50	7185.75	7873.13	7185.75	>100

Travata n. 14012

Nodi: 1397 1453 -4850 1437

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	6.16	3.08	6.16	3.08	-2428.22	-13043.50	5.372

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>
3.322	SLE R		3	52.50	6.16	3.08	-1686.07	493.16	-191.41	15.52
3.324	SLE Q		3	52.50	6.16	3.08	-1143.78	334.55	-129.85	10.53

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	-1143.78	28.00	31.33	0.50	14.00	87.83	6.16	140.00	334.55	0.10	0.01
4	3.323	SLE F		3	16	52.50	-1299.05	28.00	31.33	0.50	14.00	87.83	6.16	140.00	379.96	0.11	0.02

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	2053.64	2.50	7619.38	26714.30	7619.38	3.710
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	1131.71	2.50	7619.38	26714.30	7619.38	6.733
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	3533.59	2.50	15238.80	26714.30	15238.80	4.313

Travata n. 15001

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

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	18.35	1506.47	82.100
1.441	SLU		5	0.00	3.08	3.08	3.08	3.08	92.14	1506.47	16.350
3.231	SLU		9	35.89	3.08	3.08	3.08	3.08	21.42	1506.47	70.322

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	13.19	-8.26	34.97	1.47
0.004	SLE Q		1	0.00	3.08	3.08	10.38	-6.51	27.54	1.16
1.442	SLE R		5	0.00	3.08	3.08	65.70	-41.16	174.24	7.31
1.444	SLE Q		5	0.00	3.08	3.08	50.86	-31.86	134.88	5.66
3.232	SLE R		9	35.89	3.08	3.08	15.32	-9.60	40.63	1.71
3.234	SLE Q		9	35.89	3.08	3.08	12.32	-7.72	32.67	1.37

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	0.004	SLE Q		1	19	0.00	10.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	27.54	0.01	0.00
4	0.003	SLE F		1	19	0.00	11.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	29.66	0.01	0.00
7	1.444	SLE Q		5	19	0.00	50.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	134.88	0.04	0.01
8	1.443	SLE F		5	19	0.00	55.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	146.06	0.04	0.01
11	3.234	SLE Q		9	19	35.89	12.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	32.67	0.01	0.00
12	3.233	SLE F		9	19	35.89	13.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	34.93	0.01	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	49.66	2.50	7185.75	7873.13	7185.75	>100
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	36.19	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	60.69	2.50	7185.75	7873.13	7185.75	>100

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>
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	103.10	1506.47	14.611
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-126.74	-1506.47	11.886

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	73.62	-46.13	195.26	8.20
0.00	4	SLE Q	1	0.00	3.08	3.08	52.92	-33.16	140.34	5.89
3.23	2	SLE R	9	35.89	3.08	3.08	-89.94	238.54	-56.35	10.01
3.23	4	SLE Q	9	35.89	3.08	3.08	-70.17	186.10	-43.97	7.81

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	0.00	4	SLE Q	1	19	0.00	52.92	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.34	0.04	0.01
4	0.00	3	SLE F	1	19	0.00	58.76	28.00	134.00	0.50	14.00	93.58	3.08	82.65	155.85	0.05	0.01
7	3.23	4	SLE Q	9	19	35.89	-70.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	186.10	0.05	0.01
8	3.23	3	SLE F	9	19	35.89	-75.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	201.00	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	464.63	2.50	7185.75	7873.13	7185.75	15.465
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	464.63	2.50	7185.75	7873.13	7185.75	15.465
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	147.00	2.50	7185.75	7873.13	7185.75	48.883

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	-356.34	-1506.47	4.228

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	-258.22	684.84	-161.79	28.75
1.90	4	SLE Q	5	35.43	3.08	3.08	-198.59	526.69	-124.43	22.11

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>
3	1.90	4	SLE Q	5	19	35.43	-198.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	526.69	0.15	0.02
4	1.90	3	SLE F	5	19	35.43	-215.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	571.88	0.17	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	407.40	2.50	7185.75	7873.13	7185.75	17.638
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	424.37	2.50	7185.75	7873.13	7185.75	16.933

Travata n. 15012

Nodi: 1585 -5529 1597 1537

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>	

Relazione di calcolo

4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	-466.37	-2142.71	4.594
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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	-333.35		607.24	-162.85	21.43
4.824	SLE Q	3	332.00	3.08	3.08	-258.04		470.04	-126.06	16.59

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	-258.04	28.00	114.00	0.50	14.00	102.12	3.08	101.43		470.04	0.14	0.02
4	4.823	SLE F	3	18	332.00	-279.55	28.00	114.00	0.50	14.00	102.12	3.08	101.43		509.24	0.15	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2120.46	2.50	7619.38	26714.30	7619.38	3.593
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	432.99	2.50	5079.58	10017.90	5079.58	11.732
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	461.77	2.50	5079.58	10017.90	5079.58	11.000

Travata n. 15013

Nodi: 1557 -5037 -5124 1574 -5332 1503

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	-6913.82	-9551.64	1.382	

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	-5180.04		2027.34	-563.86	51.65
1.904	SLE Q	5	35.41	6.03	4.02	-4664.56		1825.59	-507.75	46.51

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	-4664.56	27.00	116.00	0.50	16.00	123.63	6.03	262.50		1825.59	0.73	0.15
4	1.903	SLE F	5	30	35.41	-4811.88	27.00	116.00	0.50	16.00	123.63	6.03	262.50		1883.25	0.67	0.14

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	3129.14	2.50	10241.80	20904.00	10241.80	3.273
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3754.02	2.50	10241.80	20904.00	10241.80	2.728

Travata n. 15016

Nodi: 1558 -5038 -5125 1575 -5333 1504

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	-6922.71	-9551.64	1.380	

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	-5185.15		2029.34	-564.41	51.70
1.904	SLE Q	5	35.43	6.03	4.02	-4672.23		1828.59	-508.58	46.59

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	30	35.43	-4672.23	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1828.59	0.73	0.15
4	1.90	3	SLE F	5	30	35.43	-4818.84	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1885.97	0.68	0.14

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	3148.22	2.50	10241.80	20904.00	10241.80	3.253
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3758.24	2.50	10241.80	20904.00	10241.80	2.725

Travata n. 15017

Nodi: 1588 -5533 1598 1538

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.
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-394.77	-2142.71	5.428

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	-282.29	514.23	-137.91	18.14
4.82	4	SLE Q	3	332.00	3.08	3.08	-214.66	391.02	-104.86	13.80

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	-214.66	28.00	114.00	0.50	14.00	102.12	3.08	101.43	391.02	0.11	0.02
4	4.82	3	SLE F	3	18	332.00	-234.06	28.00	114.00	0.50	14.00	102.12	3.08	101.43	426.37	0.12	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	1855.13	2.50	7619.38	26714.30	7619.38	4.107
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	391.11	2.50	5079.58	10017.90	5079.58	12.988
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	419.89	2.50	5079.58	10017.90	5079.58	12.097

Travata n. 15018

Nodi: 1559 -5039 -5126 1576 -5334 1505

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.90	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-380.86	-1506.47	3.955

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	35.44	3.08	3.08	-275.22	729.91	-172.44	30.64
1.90	4	SLE Q	5	35.44	3.08	3.08	-214.85	569.81	-134.62	23.92

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	35.44	-214.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	569.81	0.17	0.03
4	1.90	3	SLE F	5	19	35.44	-232.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	615.54	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	426.90	2.50	7185.75	7873.13	7185.75	16.832

Relazione di calcolo

1	SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	443.86	2.50	7185.75	7873.13	7185.75	16.189
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Travata n. 15019

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

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	38.00	3.08	3.08	3.08	3.08	3.08	-548.92	-1506.47	2.744

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>
1.902	SLE R	5	38.00	3.08	3.08	-396.50	1051.58	-248.44	44.14	
1.904	SLE Q	5	38.00	3.08	3.08	-305.99	811.54	-191.72	34.06	

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	38.00	-305.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	811.54	0.24	0.04	
4	1.903	SLE F	5	19	38.00	-331.82	28.00	134.00	0.50	14.00	93.58	3.08	82.65	880.02	0.26	0.04	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <cm>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	445.64	2.50	7185.75	7873.13	7185.75	16.125
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	462.60	2.50	7185.75	7873.13	7185.75	15.533

Travata n. 15044

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-206.41	-1506.47	7.299
1.271	SLU	4	18.12	3.08	3.08	3.08	3.08	3.08	186.63	1506.47	8.072
2.901	SLU	8	36.25	3.08	3.08	3.08	3.08	3.08	-205.73	-1506.47	7.322

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	-155.88		413.41	-97.67	17.35
0.004	SLE Q	1	0.00	3.08	3.08	-146.13		387.55	-91.56	16.27
1.272	SLE R	4	18.12	3.08	3.08	141.10		-88.41	374.22	15.71
1.274	SLE Q	4	18.12	3.08	3.08	130.23		-81.60	345.40	14.50
2.902	SLE R	8	36.25	3.08	3.08	-155.35		412.00	-97.33	17.29
2.904	SLE Q	8	36.25	3.08	3.08	-145.72		386.46	-91.30	16.22

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 <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	0.004	SLE Q	1	19	0.00	-146.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	387.55	0.11	0.02	
4	0.003	SLE F	1	19	0.00	-148.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	394.92	0.12	0.02	
7	1.274	SLE Q	4	19	18.12	130.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	345.40	0.10	0.02	
8	1.273	SLE F	4	19	18.12	133.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	353.66	0.10	0.02	
11	2.904	SLE Q	8	19	36.25	-145.72	28.00	134.00	0.50	14.00	93.58	3.08	82.65	386.46	0.11	0.02	
12	2.903	SLE F	8	19	36.25	-148.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	393.74	0.11	0.02	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>	bw <cm>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	898.88	2.50	7185.75	7873.13	7185.75	7.994
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	599.16	2.50	7185.75	7873.13	7185.75	11.993

Relazione di calcolo

1	SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	897.17	2.50	7185.75	7873.13	7185.75	8.009
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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/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	-133.49	-1506.47	11.285
3.21	1	SLU	9	32.51	3.08	3.08	3.08	3.08	87.15	1506.47	17.287
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	87.15	1506.47	17.287

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	-94.70	251.16	-59.34	10.54
0.00	4	SLE Q	1	0.00	3.08	3.08	-74.12	196.58	-46.44	8.25
3.21	2	SLE R	9	32.51	3.08	3.08	62.11	-38.92	164.74	6.91
3.21	4	SLE Q	9	32.51	3.08	3.08	43.93	-27.52	116.50	4.89
3.25	2	SLE R	9	36.11	3.08	3.08	62.11	-38.92	164.74	6.91
3.25	4	SLE Q	9	36.11	3.08	3.08	43.93	-27.52	116.50	4.89

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	-74.12	28.00	134.00	0.50	14.00	93.58	3.08	82.65	196.58	0.06	0.01
4	0.00	3	SLE F	1	19	0.00	-79.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	212.08	0.06	0.01
9	3.21	4	SLE Q	9	19	32.51	43.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	116.50	0.03	0.01
11	3.21	3	SLE F	9	19	32.51	49.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	130.19	0.04	0.01
16	3.25	4	SLE Q	9	19	36.11	43.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	116.50	0.03	0.01
18	3.25	3	SLE F	9	19	36.11	49.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	130.19	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	134.38	2.50	7185.75	7873.13	7185.75	53.472
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	490.95	2.50	7185.75	7873.13	7185.75	14.636
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	490.95	2.50	7185.75	7873.13	7185.75	14.636

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/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.
3.32	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-2420.96	-6639.53	2.743

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	-1680.23	957.59	-222.61	19.59
3.32	4	SLE Q	3	52.50	3.08	3.08	-1137.52	648.29	-150.71	13.26

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 <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	3.32	4	SLE Q	3	16	52.50	-1137.52	28.00	94.00	0.50	14.00	119.66	3.08	140.00	648.29	0.19	0.04
4	3.32	3	SLE F	3	16	52.50	-1292.92	28.00	94.00	0.50	14.00	119.66	3.08	140.00	736.85	0.21	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	1398.14	2.50	7619.38	26714.30	7619.38	5.450

Relazione di calcolo

1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	1609.54	2.50	7619.38	26714.30	7619.38	4.734
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	3351.62	2.50	15238.80	26714.30	15238.80	4.547

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/cm<sup>q>	Fctm <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fcd (Tag) <daN/cm<sup>q>	Fctd <daN/cm<sup>q>	Fym <daN/cm<sup>q>	Fyd <daN/cm<sup>q>	Fyd (Tag) <daN/cm<sup>q>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm<sup>q>	Afe I <cm<sup>q>	AfeP S <cm<sup>q>	AfeP I <cm<sup>q>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	17.69	1506.47	85.183
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	88.71	1506.47	16.982
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	19.31	1506.47	78.018

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm<sup>q>	Afe I <cm<sup>q>	My <daNm>	σ_ε sup <daN/cm<sup>q>	σ_ε inf <daN/cm<sup>q>	σ_c <daN/cm<sup>q>
0.00	2	SLE R	1	0.00	3.08	3.08	12.66	-7.93	33.59	1.41
0.00	4	SLE Q	1	0.00	3.08	3.08	9.90	-6.20	26.26	1.10
1.62	2	SLE R	5	18.06	3.08	3.08	63.11	-39.54	167.37	7.03
1.62	4	SLE Q	5	18.06	3.08	3.08	47.95	-30.04	127.17	5.34
3.25	2	SLE R	9	36.11	3.08	3.08	13.83	-8.66	36.67	1.54
3.25	4	SLE Q	9	36.11	3.08	3.08	10.85	-6.80	28.78	1.21

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K₂	Φ_{eq}	Δ_{sm} <mm>	A_s <cm<sup>q>	A_c eff <cm<sup>q>	σ_s <daN/cm<sup>q>	ε_{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	9.90	28.00	134.00	0.50	14.00	93.58	3.08	82.65	26.26	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	10.69	28.00	134.00	0.50	14.00	93.58	3.08	82.65	28.34	0.01	0.00
7	1.62	4	SLE Q	5	19	18.06	47.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	127.17	0.04	0.01
8	1.62	3	SLE F	5	19	18.06	52.25	28.00	134.00	0.50	14.00	93.58	3.08	82.65	138.57	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	10.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	28.78	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	11.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	31.02	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm<sup>q>/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	61.86	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	37.35	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	47.15	2.50	7185.75	7873.13	7185.75	>100

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/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>
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<sup>q>	Afe I <cm<sup>q>	AfeP S <cm<sup>q>	AfeP I <cm<sup>q>	My <daNm>	MRdy <daNm>	Sic.
3.32	1	SLU	3	52.50	6.16	3.08	6.16	3.08	-2253.15	-13043.50	5.789

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm<sup>q>	Afe I <cm<sup>q>	My <daNm>	σ_ε sup <daN/cm<sup>q>	σ_ε inf <daN/cm<sup>q>	σ_c <daN/cm<sup>q>
3.32	2	SLE R	3	52.50	6.16	3.08	-1560.76	456.51	-177.19	14.36
3.32	4	SLE Q	3	52.50	6.16	3.08	-1033.48	302.28	-117.33	9.51

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K₂	Φ_{eq}	Δ_{sm} <mm>	A_s <cm<sup>q>	A_c eff <cm<sup>q>	σ_s <daN/cm<sup>q>	ε_{sm}	Wk <mm>
3	3.32	4	SLE Q	3	16	52.50	-1033.48	28.00	31.33	0.50	14.00	87.83	6.16	140.00	302.28	0.09	0.01
4	3.32	3	SLE F	3	16	52.50	-1184.58	28.00	31.33	0.50	14.00	87.83	6.16	140.00	346.48	0.10	0.02

Stato limite ultimo - Verifiche a taglio

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

1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1760.12	2.50	7619.38	26714.30	7619.38	4.329
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	961.93	2.50	7619.38	26714.30	7619.38	7.921
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	3265.51	2.50	15238.80	26714.30	15238.80	4.667

Travata n. 17001

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	18.79	1506.47	80.164
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	95.53	1506.47	15.770
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	22.66	1506.47	66.492

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>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	13.51	-8.46	35.82	1.50
0.00	4	SLE Q	1	0.00	3.08	3.08	10.63	-6.66	28.20	1.18
1.44	2	SLE R	5	0.00	3.08	3.08	68.12	-42.68	180.66	7.58
1.44	4	SLE Q	5	0.00	3.08	3.08	52.85	-33.11	140.16	5.88
3.23	2	SLE R	9	35.89	3.08	3.08	16.20	-10.15	42.95	1.80
3.23	4	SLE Q	9	35.89	3.08	3.08	13.07	-8.19	34.67	1.46

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>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	10.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	28.20	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	11.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	30.38	0.01	0.00
7	1.44	4	SLE Q	5	19	0.00	52.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	140.16	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	57.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	151.65	0.04	0.01
11	3.23	4	SLE Q	9	19	35.89	13.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	34.67	0.01	0.00
12	3.23	3	SLE F	9	19	35.89	13.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	37.01	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cm²/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	49.57	2.50	7185.75	7873.13	7185.75	>100
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	37.63	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	62.13	2.50	7185.75	7873.13	7185.75	>100

Travata n. 17002

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cm²>	<cm²>	<cm²>	<cm²>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	117.48	1506.47	12.823
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-134.58	-1506.47	11.194

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>	<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	83.84	-52.53	222.37	9.33
0.00	4	SLE Q	1	0.00	3.08	3.08	61.13	-38.30	162.13	6.81
3.23	2	SLE R	9	35.89	3.08	3.08	-95.47	253.19	-59.82	10.63
3.23	4	SLE Q	9	35.89	3.08	3.08	-74.57	197.78	-46.73	8.30

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>	<cm²>	<cm²>	<daN/cm²>		<mm>
3	0.00	4	SLE Q	1	19	0.00	61.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	162.13	0.05	0.01
4	0.00	3	SLE F	1	19	0.00	67.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	179.03	0.05	0.01
7	3.23	4	SLE Q	9	19	35.89	-74.57	28.00	134.00	0.50	14.00	93.58	3.08	82.65	197.78	0.06	0.01

Relazione di calcolo

8	3.23	3	SLE F	9	19	35.89	-80.49	28.00	134.00	0.50	14.00	93.58	3.08	82.65	213.47	0.06	0.01
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Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	471.34	2.50	7185.75	7873.13	7185.75	15.245
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	471.34	2.50	7185.75	7873.13	7185.75	15.245
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	155.21	2.50	7185.75	7873.13	7185.75	46.298

Travata n. 17011

Nodi: 1756 -5802 -5889 1773 -6097 1702

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	35.43	3.08	3.08	3.08	3.08	-363.54	-1506.47	4.144

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	1	SLE R	5	35.43	3.08	3.08	-263.46	698.74	-165.08	29.33
1.904	1	SLE Q	5	35.43	3.08	3.08	-202.55	537.19	-126.91	22.55

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 <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	1.904	1	SLE Q	5	19	35.43	-202.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	537.19	0.16	0.02
4	1.903	1	SLE F	5	19	35.43	-219.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	583.36	0.17	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	417.36	2.50	7185.75	7873.13	7185.75	17.217
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	434.33	2.50	7185.75	7873.13	7185.75	16.545

Travata n. 17012

Nodi: 1785 -6294 1797 1737

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	-440.15	-2142.71	4.868

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	1	SLE R	3	332.00	3.08	3.08	-314.46	572.84	-153.62	20.21
4.824	1	SLE Q	3	332.00	3.08	3.08	-241.59	440.08	-118.02	15.53

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 <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	4.824	1	SLE Q	3	18	332.00	-241.59	28.00	114.00	0.50	14.00	102.12	3.08	101.43	440.08	0.13	0.02
4	4.823	1	SLE F	3	18	332.00	-262.35	28.00	114.00	0.50	14.00	102.12	3.08	101.43	477.90	0.14	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2221.44	2.50	7619.38	26714.30	7619.38	3.430
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	418.81	2.50	5079.58	10017.90	5079.58	12.129
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	447.59	2.50	5079.58	10017.90	5079.58	11.349

Travata n. 17013

Nodi: 1757 -5803 -5890 1774 -6098 1703

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.41	6.03	4.02	6.03	4.02	-6871.12	-9551.64	1.390	

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>
1.902	SLE R	5	35.41	6.03	4.02	-5149.00	2015.19	-560.48	51.34	
1.904	SLE Q	5	35.41	6.03	4.02	-4638.04	1815.21	-504.86	46.25	

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	30	35.41	-4638.04	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1815.21	0.72	0.15	
4	1.903	SLE F	5	30	35.41	-4784.07	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1872.36	0.67	0.14	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	3109.58	2.50	10241.80	20904.00	10241.80	3.294
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3673.48	2.50	10241.80	20904.00	10241.80	2.788

Travata n. 17016

Nodi: 1758 -5804 -5891 1775 -6099 1704

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.43	6.03	4.02	6.03	4.02	-6868.36	-9551.64	1.391	

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	-5146.00	2014.01	-560.15	51.31	
1.904	SLE Q	5	35.43	6.03	4.02	-4639.96	1815.96	-505.07	46.27	

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	-4639.96	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1815.96	0.72	0.15	
4	1.903	SLE F	5	30	35.43	-4784.68	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1872.60	0.67	0.14	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	3118.05	2.50	10241.80	20904.00	10241.80	3.285
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3662.02	2.50	10241.80	20904.00	10241.80	2.797

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

Relazione di calcolo

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-400.13	-2142.71	5.355

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	-285.67	520.37	-139.55	18.36	
4.824	SLE Q	3	332.00	3.08	3.08	-217.06	395.39	-106.03	13.95	

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	-217.06	28.00	114.00	0.50	14.00	102.12	3.08	101.43	395.39	0.12	0.02	
4	4.823	SLE F	3	18	332.00	-236.62	28.00	114.00	0.50	14.00	102.12	3.08	101.43	431.03	0.13	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	2207.88	2.50	7619.38	26714.30	7619.38	3.451
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	397.46	2.50	5079.58	10017.90	5079.58	12.780
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	426.24	2.50	5079.58	10017.90	5079.58	11.917

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>
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	-386.51	-1506.47	3.898

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	-279.31	740.78	-175.01	31.09	
1.904	SLE Q	5	35.44	3.08	3.08	-218.11	578.46	-136.66	24.28	

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	19	35.44	-218.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	578.46	0.17	0.03	
4	1.903	SLE F	5	19	35.44	-235.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	624.81	0.18	0.03	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	436.43	2.50	7185.75	7873.13	7185.75	16.465
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	453.40	2.50	7185.75	7873.13	7185.75	15.849

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>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	38.00	3.08	3.08	3.08	3.08	3.08	-558.42	-1506.47	2.698

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	38.00	3.08	3.08	-403.28	1069.56	-252.68	44.89	
1.904	SLE Q	5	38.00	3.08	3.08	-311.52	826.19	-195.19	34.68	

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	-311.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	826.19	0.24	0.04
4	1.90	3	SLE F	5	19	38.00	-337.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	895.56	0.26	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	466.42	2.50	7185.75	7873.13	7185.75	15.406
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	483.38	2.50	7185.75	7873.13	7185.75	14.866

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	-207.19	-1506.47	7.271
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	185.64	1506.47	8.115
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-206.28	-1506.47	7.303

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	-156.42	414.84	-98.01	17.41
0.00	4	SLE Q	1	0.00	3.08	3.08	-146.59	388.77	-91.85	16.32
1.45	2	SLE R	5	0.00	3.08	3.08	140.39	-87.96	372.33	15.63
1.45	4	SLE Q	5	0.00	3.08	3.08	129.62	-81.22	343.77	14.43
2.90	2	SLE R	8	36.25	3.08	3.08	-155.76	413.11	-97.60	17.34
2.90	4	SLE Q	8	36.25	3.08	3.08	-146.06	387.37	-91.52	16.26

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	-146.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	388.77	0.11	0.02
4	0.00	3	SLE F	1	19	0.00	-149.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	396.20	0.12	0.02
7	1.45	4	SLE Q	5	19	0.00	129.62	28.00	134.00	0.50	14.00	93.58	3.08	82.65	343.77	0.10	0.02
8	1.45	3	SLE F	5	19	0.00	132.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	351.95	0.10	0.02
11	2.90	4	SLE Q	8	19	36.25	-146.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	387.37	0.11	0.02
12	2.90	3	SLE F	8	19	36.25	-148.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	394.72	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	898.50	2.50	7185.75	7873.13	7185.75	7.997
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	598.78	2.50	7185.75	7873.13	7185.75	12.001
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	897.24	2.50	7185.75	7873.13	7185.75	8.009

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	-139.93	-1506.47	10.766
3.21	1	SLU	9	32.51	3.08	3.08	3.08	3.08	97.20	1506.47	15.498
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	97.20	1506.47	15.498

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	-99.18	263.04	-62.14	11.04
0.00	4	SLE Q	1	0.00	3.08	3.08	-77.85	206.47	-48.78	8.67
3.21	2	SLE R	9	32.51	3.08	3.08	69.21	-43.37	183.56	7.70
3.21	4	SLE Q	9	32.51	3.08	3.08	49.83	-31.22	132.16	5.55
3.25	2	SLE R	9	36.11	3.08	3.08	69.21	-43.37	183.56	7.70
3.25	4	SLE Q	9	36.11	3.08	3.08	49.83	-31.22	132.16	5.55

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}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-77.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	206.47	0.06	0.01
4	0.00	3	SLE F	1	19	0.00	-83.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	222.49	0.06	0.01
9	3.21	4	SLE Q	9	19	32.51	49.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	132.16	0.04	0.01
11	3.21	3	SLE F	9	19	32.51	55.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	146.70	0.04	0.01
15	3.25	4	SLE Q	9	19	36.11	49.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	132.16	0.04	0.01
16	3.25	3	SLE F	9	19	36.11	55.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	146.70	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	147.72	2.50	7185.75	7873.13	7185.75	48.646
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	491.41	2.50	7185.75	7873.13	7185.75	14.623
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	491.41	2.50	7185.75	7873.13	7185.75	14.623

Travata n. 17060

Nodi: 1798 1654 -5618 1638

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	-2119.95	-6639.53	3.132

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>
3.32	2	SLE R	3	52.50	3.08	3.08	-1466.73	835.91	-194.32	17.10
3.32	4	SLE Q	3	52.50	3.08	3.08	-955.84	544.75	-126.64	11.14

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	-955.84	28.00	94.00	0.50	14.00	119.66	3.08	140.00	544.75	0.16	0.03
4	3.32	3	SLE F	3	16	52.50	-1102.67	28.00	94.00	0.50	14.00	119.66	3.08	140.00	628.43	0.18	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	-0.20	1.24	1.82	ø6/32 2 br.	1.77	0.16	1257.27	2.50	7619.38	26714.30	7619.38	6.060
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	2016.47	2.50	7619.38	26714.30	7619.38	3.779
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	2927.32	2.50	15238.80	26714.30	15238.80	5.206

Travata n. 17087

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

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	19.15	1506.47	78.674
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	93.59	1506.47	16.096
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	20.26	1506.47	74.363

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	13.71	-8.59	36.36	1.53
0.004	SLE Q	1	0.00	3.08	3.08	10.76	-6.74	28.54	1.20
1.622	SLE R	5	18.06	3.08	3.08	66.57	-41.71	176.57	7.41
1.624	SLE Q	5	18.06	3.08	3.08	50.77	-31.81	134.65	5.65
3.252	SLE R	9	36.11	3.08	3.08	14.50	-9.08	38.45	1.61
3.254	SLE Q	9	36.11	3.08	3.08	11.39	-7.13	30.20	1.27

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>	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.004	SLE Q	1	19	0.00	10.76	28.00	134.00	0.50	14.00	93.58	93.58	3.08	82.65	28.54	0.01	0.00
4	0.003	SLE F	1	19	0.00	11.60	28.00	134.00	0.50	14.00	93.58	93.58	3.08	82.65	30.76	0.01	0.00
7	1.624	SLE Q	5	19	18.06	50.77	28.00	134.00	0.50	14.00	93.58	93.58	3.08	82.65	134.65	0.04	0.01
8	1.623	SLE F	5	19	18.06	55.25	28.00	134.00	0.50	14.00	93.58	93.58	3.08	82.65	146.52	0.04	0.01
11	3.254	SLE Q	9	19	36.11	11.39	28.00	134.00	0.50	14.00	93.58	93.58	3.08	82.65	30.20	0.01	0.00
12	3.253	SLE F	9	19	36.11	12.27	28.00	134.00	0.50	14.00	93.58	93.58	3.08	82.65	32.53	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	62.78	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	38.27	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	47.85	2.50	7185.75	7873.13	7185.75	>100

Travata n. 18009

Nodi: -6390 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)
<m>		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
26R		30.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.251	SLU	1	125.00	4.02	4.02	4.02	4.02	68.85	2704.33	39.281	

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>
1.252	SLE R	1	125.00	4.02	4.02	47.06	-14.46	64.97	2.05	
1.254	SLE Q	1	125.00	4.02	4.02	-44.02	60.78	-13.52	1.92	

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>	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
5	1.254	SLE Q	1	26	125.00	-44.02	27.00	232.00	0.50	16.00	130.55	130.55	4.02	174.06	60.78	0.02	0.00
7	1.253	SLE F	1	26	125.00	-44.02	27.00	232.00	0.50	16.00	130.55	130.55	4.02	174.06	60.78	0.02	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.03	1.03	ø6/14 2 br.	4.04	0.30	495.59	2.50	5805.24	9215.72	5805.24	11.714
1 SLU	1.03	1.25	0.22	ø6/14 2 br.	4.04	0.30	640.66	2.50	5805.24	9215.72	5805.24	9.061

Travata n. 18012

Nodi: 1797 1853 -6381 1837

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)
<m>		<cm>	<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-2281.90	-13043.50	5.716	

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	6.16	3.08	-1578.90	461.82	-179.25	14.53	

Relazione di calcolo

3.32	4	SLE Q	3	52.50	6.16	3.08	-1049.02	306.83	-119.09	9.65
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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	3.32	4	SLE Q	3	16	52.50	-1049.02	28.00	31.33	0.50	14.00	87.83	6.16	140.00	306.83	0.09	0.01
4	3.32	3	SLE F	3	16	52.50	-1200.29	28.00	31.33	0.50	14.00	87.83	6.16	140.00	351.07	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>	<cm>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.20	1.46	1.60	ø6/32 2 br.	1.77	0.16	1641.95	2.50	7619.38	26714.30	7619.38	4.640
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	966.48	2.50	7619.38	26714.30	7619.38	7.884
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	3246.31	2.50	15238.80	26714.30	15238.80	4.694

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	21.37	1506.47	70.509
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	104.88	1506.47	14.363
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	24.39	1506.47	61.759

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	15.31	-9.59	40.61	1.70
0.00	4	SLE Q	1	0.00	3.08	3.08	11.93	-7.48	31.65	1.33
1.44	2	SLE R	5	0.00	3.08	3.08	74.81	-46.87	198.41	8.33
1.44	4	SLE Q	5	0.00	3.08	3.08	57.14	-35.80	151.56	6.36
3.23	2	SLE R	9	35.89	3.08	3.08	17.49	-10.96	46.38	1.95
3.23	4	SLE Q	9	35.89	3.08	3.08	13.81	-8.65	36.63	1.54

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	11.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	31.65	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	12.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	34.13	0.01	0.00
7	1.44	4	SLE Q	5	19	0.00	57.14	28.00	134.00	0.50	14.00	93.58	3.08	82.65	151.56	0.04	0.01
8	1.44	3	SLE F	5	19	0.00	62.06	28.00	134.00	0.50	14.00	93.58	3.08	82.65	164.60	0.05	0.01
11	3.23	4	SLE Q	9	19	35.89	13.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	36.63	0.01	0.00
12	3.23	3	SLE F	9	19	35.89	14.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	39.36	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<cm>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	50.98	2.50	7185.75	7873.13	7185.75	>100
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	40.02	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	64.52	2.50	7185.75	7873.13	7185.75	>100

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	142.66	1506.47	10.560
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-165.94	-1506.47	9.078

Stato limite d'esercizio - Verifiche tensionali

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

<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cm>	<daN/cm>	<daN/cm>
0.002	SLE R	1	0.00	3.08	3.08	102.34	-64.12	271.41	11.39	
0.004	SLE Q	1	0.00	3.08	3.08	78.70	-49.31	208.72	8.76	
3.232	SLE R	9	35.89	3.08	3.08	-117.59	311.87	-73.68	13.09	
3.234	SLE Q	9	35.89	3.08	3.08	-89.34	236.93	-55.97	9.94	

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	0.004	SLE Q	1	19	0.00	78.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	208.72	0.06	0.01	
4	0.003	SLE F	1	19	0.00	85.48	28.00	134.00	0.50	14.00	93.58	3.08	82.65	226.72	0.07	0.01	
7	3.234	SLE Q	9	19	35.89	-89.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	236.93	0.07	0.01	
8	3.233	SLE F	9	19	35.89	-97.23	28.00	134.00	0.50	14.00	93.58	3.08	82.65	257.88	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	523.65	2.50	7185.75	7873.13	7185.75	13.722
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	523.65	2.50	7185.75	7873.13	7185.75	13.722
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	137.13	2.50	7185.75	7873.13	7185.75	52.401

Travata n. 19011

Nodi: 1956 -6567 -6654 1973 -6862 1902

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU	5	35.43	3.08	3.08	3.08	3.08	-341.51	-1506.47	4.411	

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/cm>	<daN/cm>	<daN/cm>
1.902	SLE R	5	35.43	3.08	3.08	-246.62	654.07	-154.52	27.45	
1.904	SLE Q	5	35.43	3.08	3.08	-188.97	501.17	-118.40	21.04	

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	35.43	-188.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	501.17	0.15	0.02	
4	1.903	SLE F	5	19	35.43	-205.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	544.44	0.16	0.03	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	389.27	2.50	7185.75	7873.13	7185.75	18.459
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	406.24	2.50	7185.75	7873.13	7185.75	17.688

Travata n. 19012

Nodi: 1985 -7059 1997 1937

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU	3	332.00	3.08	3.08	3.08	3.08	-336.67	-2142.71	6.364	

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/cm>	<daN/cm>	<daN/cm>
4.822	SLE R	3	332.00	3.08	3.08	-241.50	439.91	-117.97	15.52	
4.824	SLE Q	3	332.00	3.08	3.08	-182.06	331.64	-88.94	11.70	

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	-182.06	28.00	114.00	0.50	14.00	102.12	3.08	101.43	331.64	0.10	0.02
4	4.82	3	SLE F	3	18	332.00	-198.48	28.00	114.00	0.50	14.00	102.12	3.08	101.43	361.55	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2368.47	2.50	7619.38	26714.30	7619.38	3.217
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	330.88	2.50	5079.58	10017.90	5079.58	15.352
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	359.67	2.50	5079.58	10017.90	5079.58	14.123

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/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	5	35.41	4.02	4.02	4.02	4.02	4.02	-3655.69	-6450.78	1.765

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>	σ _f inf <daN/cm>	σ _c <daN/cm>
1.902	SLE R	5	35.41	4.02	4.02	-2669.71	1546.04	-311.85		30.87
1.904	SLE Q	5	35.41	4.02	4.02	-2136.25	1237.11	-249.53		24.70

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/cm>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	30	35.41	-2136.25	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1237.11	0.37	0.19
4	1.90	3	SLE F	5	30	35.41	-2288.42	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1325.23	0.39	0.19

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	2115.97	2.50	10241.80	20904.00	10241.80	4.840
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	2584.10	2.50	10241.80	20904.00	10241.80	3.963

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/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
30R	30.00	50.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	5	35.43	4.02	4.02	4.02	4.02	4.02	-3642.90	-6450.78	1.771

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>	σ _f inf <daN/cm>	σ _c <daN/cm>
1.902	SLE R	5	35.43	4.02	4.02	-2660.34	1540.61	-310.75		30.76
1.904	SLE Q	5	35.43	4.02	4.02	-2129.89	1233.43	-248.79		24.63

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 <cmq>	A _{c eff} <cmq>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	30	35.43	-2129.89	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1233.43	0.37	0.19
4	1.90	3	SLE F	5	30	35.43	-2281.19	27.00	232.00	0.50	16.00	294.62	4.02	262.50	1321.04	0.38	0.19

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	2138.48	2.50	10241.80	20904.00	10241.80	4.789
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	2590.48	2.50	10241.80	20904.00	10241.80	3.954

Travata n. 19017

Nodi: 1988 -7063 1998 1938

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	-411.17	-2142.71	5.211

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>
4.822	SLE R	3	332.00	3.08	3.08	-292.70	533.19	-142.99	18.81	
4.824	SLE Q	3	332.00	3.08	3.08	-223.10	406.39	-108.99	14.34	

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	-223.10	28.00	114.00	0.50	14.00	102.12	3.08	101.43		406.39	0.12	0.02
4	4.823	SLE F	3	18	332.00	-242.65	28.00	114.00	0.50	14.00	102.12	3.08	101.43		442.01	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	1385.03	2.50	7619.38	26714.30	7619.38	5.501
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	399.95	2.50	5079.58	10017.90	5079.58	12.701
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	428.73	2.50	5079.58	10017.90	5079.58	11.848

Travata n. 19018

Nodi: 1959 -6570 -6657 1976 -6865 1905

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	-359.47	-1506.47	4.191

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>
1.902	SLE R	5	35.44	3.08	3.08	-259.50	688.24	-162.60	28.89	
1.904	SLE Q	5	35.44	3.08	3.08	-200.35	531.37	-125.54	22.30	

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	35.44	-200.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	531.37	0.15	0.02	
4	1.903	SLE F	5	19	35.44	-217.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	575.86	0.17	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	399.01	2.50	7185.75	7873.13	7185.75	18.009
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	415.98	2.50	7185.75	7873.13	7185.75	17.274

Travata n. 19019

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

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	-561.18	-1506.47	2.684

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>
1.902	2	SLE R	5	38.00	3.08	3.08	-405.17	1074.57	-253.87	45.10
1.904	4	SLE Q	5	38.00	3.08	3.08	-312.80	829.58	-195.99	34.82

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 off}	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	-312.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65		829.58	0.24	0.04
4	1.903	SLE F	5	19	38.00	-339.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65		899.52	0.26	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	486.49	2.50	7185.75	7873.13	7185.75	14.771
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	503.45	2.50	7185.75	7873.13	7185.75	14.273

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	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-71.26	-1506.47	21.139
1.271	1	SLU	4	18.12	3.08	3.08	3.08	3.08	43.55	1506.47	34.593
2.901	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-67.48	-1506.47	22.324

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	2	SLE R	1	0.00	3.08	3.08	-51.19	135.76	-32.07	5.70
0.004	2	SLE Q	1	0.00	3.08	3.08	-39.94	105.92	-25.02	4.45
1.272	2	SLE R	4	18.12	3.08	3.08	32.07	-20.10	85.06	3.57
1.274	2	SLE Q	4	18.12	3.08	3.08	23.14	-14.50	61.38	2.58
2.902	2	SLE R	8	36.25	3.08	3.08	-48.44	128.47	-30.35	5.39
2.904	2	SLE Q	8	36.25	3.08	3.08	-37.68	99.93	-23.61	4.19

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 off <cmq>	σ _s <daN/cmqr>	ε _{sm}	Wk <mm>
3	0.004	SLE	Q	1	19	0.00	-39.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	105.92	0.03	0.00
4	0.003	SLE	F	1	19	0.00	-43.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	114.34	0.03	0.01
7	1.274	SLE	Q	4	19	18.12	23.14	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.38	0.02	0.00
8	1.273	SLE	F	4	19	18.12	25.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	68.29	0.02	0.00
11	2.904	SLE	Q	8	19	36.25	-37.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	99.93	0.03	0.00
12	2.903	SLE	F	8	19	36.25	-40.72	28.00	134.00	0.50	14.00	93.58	3.08	82.65	107.98	0.03	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	165.55	2.50	7185.75	7873.13	7185.75	43.406
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	141.04	2.50	7185.75	7873.13	7185.75	50.948
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	159.36	2.50	7185.75	7873.13	7185.75	45.092

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>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-179.33	-1506.47	8.401
3.21	1	SLU	9	32.51	3.08	3.08	3.08	3.08	127.97	1506.47	11.772
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	127.97	1506.47	11.772

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	-127.30	337.63	-79.76	14.17
0.00	4	SLE Q	1	0.00	3.08	3.08	-96.93	257.08	-60.73	10.79
3.21	2	SLE R	9	32.51	3.08	3.08	91.85	-57.55	243.60	10.22
3.21	4	SLE Q	9	32.51	3.08	3.08	70.20	-43.98	186.17	7.81
3.25	2	SLE R	9	36.11	3.08	3.08	91.85	-57.55	243.60	10.22
3.25	4	SLE Q	9	36.11	3.08	3.08	70.20	-43.98	186.17	7.81

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}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	0.00	4	SLE Q	1	19	0.00	-96.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	257.08	0.07	0.01
4	0.00	3	SLE F	1	19	0.00	-105.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	279.58	0.08	0.01
7	3.21	4	SLE Q	9	19	32.51	70.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	186.17	0.05	0.01
8	3.21	3	SLE F	9	19	32.51	76.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	202.75	0.06	0.01
11	3.25	4	SLE Q	9	19	36.11	70.20	28.00	134.00	0.50	14.00	93.58	3.08	82.65	186.17	0.05	0.01
12	3.25	3	SLE F	9	19	36.11	76.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	202.75	0.06	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	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	159.20	2.50	7185.75	7873.13	7185.75
1	SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	552.63	2.50	7185.75	7873.13	7185.75
1	SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	552.63	2.50	7185.75	7873.13	7185.75

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	-2649.68	-6639.53	2.506

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>
3.32	2	SLE R	3	52.50	3.08	3.08	-1818.87	1036.60	-240.97	21.20
3.32	4	SLE Q	3	52.50	3.08	3.08	-1205.29	686.91	-159.68	14.05

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	-1205.29	28.00	94.00	0.50	14.00	119.66	3.08	140.00	686.91	0.20	0.04
4	3.32	3	SLE F	3	16	52.50	-1373.68	28.00	94.00	0.50	14.00	119.66	3.08	140.00	782.88	0.23	0.05

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	1.24	1.82	ø6/32 2 br.	1.77	0.16	1832.61	2.50	7619.38	26714.30	7619.38
1	SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	1175.07	2.50	7619.38	26714.30	7619.38
1	SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	3660.84	2.50	15238.80	26714.30	15238.80

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>

Relazione di calcolo

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

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	20.30	1506.47	74.213
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	99.02	1506.47	15.214
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	21.46	1506.47	70.198

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	14.54	-9.11	38.56	1.62
0.00	4	SLE Q	1	0.00	3.08	3.08	11.36	-7.12	30.14	1.26
1.62	2	SLE R	5	18.06	3.08	3.08	70.48	-44.16	186.92	7.85
1.62	4	SLE Q	5	18.06	3.08	3.08	53.45	-33.49	141.75	5.95
3.25	2	SLE R	9	36.11	3.08	3.08	15.37	-9.63	40.75	1.71
3.25	4	SLE Q	9	36.11	3.08	3.08	12.03	-7.54	31.91	1.34

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	11.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	30.14	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	12.26	28.00	134.00	0.50	14.00	93.58	3.08	82.65	32.52	0.01	0.00
7	1.62	4	SLE Q	5	19	18.06	53.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	141.75	0.04	0.01
8	1.62	3	SLE F	5	19	18.06	58.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	154.47	0.04	0.01
11	3.25	4	SLE Q	9	19	36.11	12.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	31.91	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	12.97	28.00	134.00	0.50	14.00	93.58	3.08	82.65	34.41	0.01	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	65.45	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	40.94	2.50	7185.75	7873.13	7185.75>100
1	SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	47.98	2.50	7185.75	7873.13	7185.75>100

Travata n. 3001

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

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	11.97	1506.47	>100
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	54.36	1506.47	27.713
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	9.76	1506.47	>100

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	8.65	-5.42	22.94	0.96
0.00	4	SLE Q	1	0.00	3.08	3.08	6.88	-4.31	18.24	0.77
1.44	2	SLE R	5	0.00	3.08	3.08	38.88	-24.36	103.12	4.33
1.44	4	SLE Q	5	0.00	3.08	3.08	29.42	-18.43	78.01	3.27
3.23	2	SLE R	9	35.89	3.08	3.08	7.07	-4.43	18.76	0.79
3.23	4	SLE Q	9	35.89	3.08	3.08	5.63	-3.53	14.93	0.63

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	6.88	28.00	134.00	0.50	14.00	93.58	3.08	82.65	18.24	0.01	0.00
4	0.00	3	SLE F	1	19	0.00	7.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	19.58	0.01	0.00
7	1.44	4	SLE Q	5	19	0.00	29.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65	78.01	0.02	0.00
8	1.44	3	SLE F	5	19	0.00	32.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	85.16	0.02	0.00
11	3.23	4	SLE Q	9	19	35.89	5.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	14.93	0.00	0.00
12	3.23	3	SLE F	9	19	35.89	6.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	16.02	0.00	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	43.02	2.50	7185.75	7873.13	7185.75>100

Relazione di calcolo

1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	28.91	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	53.41	2.50	7185.75	7873.13	7185.75	>100

Travata n. 3002

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

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/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>	
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-49.24	-1506.47	30.596
1.61	1	SLU	5	17.94	3.08	3.08	3.08	3.08	20.83	1506.47	72.326
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-56.93	-1506.47	26.463

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	-35.36	93.78	-22.16	3.94
0.00	4	SLE Q	1	0.00	3.08	3.08	-29.75	78.91	-18.64	3.31
1.61	2	SLE R	5	17.94	3.08	3.08	14.45	-9.06	38.33	1.61
1.61	4	SLE Q	5	17.94	3.08	3.08	12.77	-8.00	33.88	1.42
3.23	2	SLE R	9	35.89	3.08	3.08	-40.47	107.33	-25.36	4.50
3.23	4	SLE Q	9	35.89	3.08	3.08	-31.41	83.32	-19.68	3.50

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>
5	0.00	4	SLE Q	1	19	0.00	-29.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	78.91	0.02	0.00
7	0.00	3	SLE F	1	19	0.00	-31.35	28.00	134.00	0.50	14.00	93.58	3.08	82.65	83.16	0.02	0.00
11	1.61	4	SLE Q	5	19	17.94	12.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	33.88	0.01	0.00
12	1.61	3	SLE F	5	19	17.94	13.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	35.11	0.01	0.00
15	3.23	4	SLE Q	9	19	35.89	-31.41	28.00	134.00	0.50	14.00	93.58	3.08	82.65	83.32	0.02	0.00
16	3.23	3	SLE F	9	19	35.89	-34.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	90.18	0.03	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	367.79	2.50	7185.75	7873.13	7185.75	19.538
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	367.79	2.50	7185.75	7873.13	7185.75	19.538
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	229.17	2.50	7185.75	7873.13	7185.75	31.355

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	b	H	h	Cf sup	Cf inf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<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
58	Ldx	60.00	30.00	24.00	26.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg	CC	TCC	In	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	i	5	0.00	14.33	2.26	14.33	2.26	-612.65	-5227.23	8.532
2.25	1	SLU	d	6	35.00	23.75	9.42	23.75	9.42	-4240.60	-35275.50	8.319
2.40	1	SLU	d	6	50.00	23.75	21.49	23.75	21.49	-4240.60	-36808.10	8.680
5.01	1	SLU	h	6	311.00	21.49	21.49	21.49	21.49	2411.54	33615.50	13.939
6.77	1	SLU	b	6	487.00	21.49	21.49	21.49	21.49	-3608.18	-33341.50	9.241
6.85	1	SLU	b	6	495.00	21.49	21.49	21.49	21.49	-3608.18	-33341.50	9.241
7.35	1	SLU	c	7	-10.00	21.49	21.49	21.49	21.49	-5686.04	-33341.50	5.864
7.45	1	SLU	c	7	0.00	21.49	21.49	21.49	21.49	-5686.04	-33341.50	5.864
9.50	1	SLU	f	7	205.25	21.49	21.49	21.49	21.49	2819.39	33615.50	11.923
12.12	1	SLU	a	7	467.00	21.49	21.49	21.49	21.49	-3751.78	-33341.50	8.887
12.27	1	SLU	a	7	482.00	21.49	21.49	21.49	21.49	-3751.78	-33341.50	8.887

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	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>
1.902	SLE R	i	5		0.00	14.33	2.26	-442.42	273.50	-319.64	33.89
1.904	SLE Q	i	5		0.00	14.33	2.26	-344.58	213.02	-248.95	26.40
2.252	SLE R	d	6		35.00	23.75	9.42	-2958.90	307.96	-211.27	16.90
2.254	SLE Q	d	6		35.00	23.75	9.42	-2904.86	302.34	-207.41	16.59
2.402	SLE R	d	6		50.00	23.75	21.49	-2958.90	299.29	-160.42	13.19
2.404	SLE Q	d	6		50.00	23.75	21.49	-2904.86	293.83	-157.49	12.95
5.012	SLE R	h	6		311.00	21.49	21.49	1671.61	-65.92	184.88	5.76
5.014	SLE Q	h	6		311.00	21.49	21.49	1781.50	-70.26	197.03	6.13
6.772	SLE R	b	6		487.00	21.49	21.49	-2554.96	284.56	-140.39	11.67
6.774	SLE Q	b	6		487.00	21.49	21.49	-2540.25	282.92	-139.58	11.60
6.852	SLE R	b	6		495.00	21.49	21.49	-2554.96	284.56	-140.39	11.67
6.854	SLE Q	b	6		495.00	21.49	21.49	-2540.25	282.92	-139.58	11.60
7.352	SLE R	c	7		-10.00	21.49	21.49	-4012.14	446.86	-220.46	18.32
7.354	SLE Q	c	7		-10.00	21.49	21.49	-4006.09	446.18	-220.12	18.29
7.452	SLE R	c	7		0.00	21.49	21.49	-4012.14	446.86	-220.46	18.32
7.454	SLE Q	c	7		0.00	21.49	21.49	-4006.09	446.18	-220.12	18.29
9.502	SLE R	f	7		205.25	21.49	21.49	1977.65	-77.99	218.72	6.81
9.504	SLE Q	f	7		205.25	21.49	21.49	1975.49	-77.91	218.49	6.80
12.122	SLE R	a	7		467.00	21.49	21.49	-2627.01	292.59	-144.35	11.99
12.124	SLE Q	a	7		467.00	21.49	21.49	-2645.63	294.66	-145.37	12.08
12.272	SLE R	a	7		482.00	21.49	21.49	-2627.01	292.59	-144.35	11.99
12.274	SLE Q	a	7		482.00	21.49	21.49	-2645.63	294.66	-145.37	12.08

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 off} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
58	2.254	SLE	Q d	6	58		35.00	-2904.86	26.82	52.80	0.50	16.80	90.77	23.75	525.00	302.34	0.09	0.01
67	2.253	SLE	F d	6	58		35.00	-2919.64	26.82	52.80	0.50	16.80	90.77	23.75	525.00	303.88	0.09	0.01
94	2.404	SLE	Q d	6	58		50.00	-2904.86	26.82	52.80	0.50	16.80	90.77	23.75	525.00	293.83	0.09	0.01
103	2.403	SLE	F d	6	58		50.00	-2919.64	26.82	52.80	0.50	16.80	90.77	23.75	525.00	295.32	0.09	0.01
135	5.014	SLE	Q h	6	58		311.00	1781.50	26.00	28.00	0.50	18.22	88.31	5.15	102.66	197.03	0.06	0.01
144	5.013	SLE	F h	6	58		311.00	1750.03	26.00	28.00	0.50	18.22	88.31	5.15	102.66	193.55	0.06	0.01
165	6.774	SLE	Q b	6	58		487.00	-2540.25	26.33	66.00	0.50	17.54	95.52	21.49	525.00	282.92	0.08	0.01
174	6.773	SLE	F b	6	58		487.00	-2544.61	26.33	66.00	0.50	17.54	95.52	21.49	525.00	283.41	0.08	0.01
201	6.854	SLE	Q b	6	58		495.00	-2540.25	26.33	66.00	0.50	17.54	95.52	21.49	525.00	282.92	0.08	0.01
210	6.853	SLE	F b	6	58		495.00	-2544.61	26.33	66.00	0.50	17.54	95.52	21.49	525.00	283.41	0.08	0.01
238	7.354	SLE	Q c	7	58		-10.00	-4006.09	26.33	66.00	0.50	17.54	95.52	21.49	525.00	446.18	0.13	0.02
247	7.353	SLE	F c	7	58		-10.00	-4007.84	26.33	66.00	0.50	17.54	95.52	21.49	525.00	446.38	0.13	0.02
276	7.454	SLE	Q c	7	58		0.00	-4006.09	26.33	66.00	0.50	17.54	95.52	21.49	525.00	446.18	0.13	0.02
285	7.453	SLE	F c	7	58		0.00	-4007.84	26.33	66.00	0.50	17.54	95.52	21.49	525.00	446.38	0.13	0.02
315	9.504	SLE	Q f	7	58		205.25	1975.49	26.00	28.00	0.50	18.22	88.31	5.15	102.66	218.49	0.06	0.01
324	9.503	SLE	F f	7	58		205.25	1976.03	26.00	28.00	0.50	18.22	88.31	5.15	102.66	218.55	0.06	0.01
348	12.124	SLE	Q a	7	58		467.00	-2645.63	26.33	66.00	0.50	17.54	95.52	21.49	525.00	294.66	0.09	0.01
360	12.123	SLE	F a	7	58		467.00	-2640.24	26.33	66.00	0.50	17.54	95.52	21.49	525.00	294.06	0.09	0.01
389	12.274	SLE	Q a	7	58		482.00	-2645.63	26.33	66.00	0.50	17.54	95.52	21.49	525.00	294.66	0.09	0.01
398	12.273	SLE	F a	7	58		482.00	-2640.24	26.33	66.00	0.50	17.54	95.52	21.49	525.00	294.06	0.09	0.01

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	530.97	2.50	7185.75	7873.13	7185.75	13.533
1 SLU	1.75	1.90	0.14	i	ø6/ 8 2 br.	7.07	0.20	547.93	2.50	7185.75	7873.13	7185.75	13.114
1 SLU	2.40	2.62	0.22	d	ø8/10 2 br.	10.05	0.30	4829.00	1.90	24957.10	24957.10	24957.10	5.168
1 SLU	2.62	6.55	3.93	d	ø8/10 2 br.	10.05	0.30	4368.71	1.90	24957.10	24957.10	24957.10	5.713
1 SLU	6.55	6.77	0.22	h	ø8/10 2 br.	10.05	0.30	4673.40	1.90	24957.10	24957.10	24957.10	5.340
1 SLU	7.45	7.67	0.22	c	ø8/10 2 br.	10.05	0.30	5618.81	1.90	24957.10	24957.10	24957.10	4.442
1 SLU	7.67	11.90	4.23	c	ø8/10 2 br.	10.05	0.30	5158.52	1.90	24957.10	24957.10	24957.10	4.838
1 SLU	11.90	12.12	0.22	a	ø8/10 2 br.	10.05	0.30	4573.66	1.90	24957.10	24957.10	24957.10	5.457

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>
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	-321.61	-1506.47	4.684

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	-232.98	617.90	-145.98	25.94
1.90	4	SLE Q	5	35.43	3.08	3.08	-179.95	477.26	-112.75	20.03

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	-179.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	477.26	0.14	0.02
4	1.90	3	SLE F	5	19	35.43	-195.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	517.45	0.15	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	232.80	2.50	7185.75	7873.13	7185.75	30.866
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	249.77	2.50	7185.75	7873.13	7185.75	28.770

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/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
16	R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
4.67	1	SLU	3	317.00	3.08	3.08	3.08	3.08	-306.97	-2142.71	6.980
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-306.97	-2142.71	6.980

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>
4.67	2	SLE R	3	317.00	3.08	3.08	-222.60	405.49	-108.74	14.31
4.67	4	SLE Q	3	317.00	3.08	3.08	-187.17	340.95	-91.44	12.03
4.82	2	SLE R	3	332.00	3.08	3.08	-222.60	405.49	-108.74	14.31
4.82	4	SLE Q	3	332.00	3.08	3.08	-187.17	340.95	-91.44	12.03

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	4.67	4	SLE Q	3	18	317.00	-187.17	28.00	114.00	0.50	14.00	102.12	3.08	101.43	340.95	0.10	0.02
4	4.67	3	SLE F	3	18	317.00	-197.28	28.00	114.00	0.50	14.00	102.12	3.08	101.43	359.37	0.10	0.02
7	4.82	4	SLE Q	3	18	332.00	-187.17	28.00	114.00	0.50	14.00	102.12	3.08	101.43	340.95	0.10	0.02
8	4.82	3	SLE F	3	18	332.00	-197.28	28.00	114.00	0.50	14.00	102.12	3.08	101.43	359.37	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	2516.06	2.50	7619.38	26714.30	7619.38	3.028
1 SLU	1.50	4.46	2.96	ø6/16 2 br.	3.53	0.18	286.90	2.50	5079.58	10017.90	5079.58	17.705
1 SLU	4.46	4.67	0.20	ø6/16 2 br.	3.53	0.18	315.69	2.50	5079.58	10017.90	5079.58	16.091

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/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.
1.90	1	SLU	5	35.38	6.03	4.02	6.03	4.02	-6690.85	-9551.64	1.428

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	-5013.66	1962.22	-545.75	49.99

Relazione di calcolo

1.90	4	SLE Q	5	35.38	6.03	4.02	-4529.92	1772.90	-493.09	45.17
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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	1.90	4	SLE Q	5	30	35.38	-4529.92	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1772.90	0.70	0.15
4	1.90	3	SLE F	5	30	35.38	-4668.13	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1826.99	0.65	0.14

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	2939.99	2.50	10241.80	20904.00	10241.80	3.484
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3480.84	2.50	10241.80	20904.00	10241.80	2.942

Travata n. 3016

Nodi: 358 -439 -526 375 -734 304

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-6687.79	-9551.64	1.428

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	35.41	6.03	4.02	-5011.16	1961.24	-545.47	49.97
1.90	4	SLE Q	5	35.41	6.03	4.02	-4528.30	1772.26	-492.91	45.15

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}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.41	-4528.30	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1772.26	0.70	0.15
4	1.90	3	SLE F	5	30	35.41	-4666.26	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1826.25	0.65	0.14

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	2940.03	2.50	10241.80	20904.00	10241.80	3.484
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3468.88	2.50	10241.80	20904.00	10241.80	2.952

Travata n. 3017

Nodi: 388 -933 398 338

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>	
4.67	1	SLU	3	317.00	3.08	3.08	3.08	3.08	-297.60	-2142.71	7.200
4.82	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-297.60	-2142.71	7.200

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>
4.67	2	SLE R	3	317.00	3.08	3.08	-214.96	391.58	-105.01	13.82
4.67	4	SLE Q	3	317.00	3.08	3.08	-175.98	320.56	-85.97	11.31
4.82	2	SLE R	3	332.00	3.08	3.08	-214.96	391.58	-105.01	13.82
4.82	4	SLE Q	3	332.00	3.08	3.08	-175.98	320.56	-85.97	11.31

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>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.67	4	SLE Q	3	18	317.00	-175.98	28.00	114.00	0.50	14.00	102.12	3.08	101.43	320.56	0.09	0.02
4	4.67	3	SLE F	3	18	317.00	-187.12	28.00	114.00	0.50	14.00	102.12	3.08	101.43	340.86	0.10	0.02

Relazione di calcolo

7	4.82	4	SLE Q	3	18	332.00	-175.98	28.00	114.00	0.50	14.00	102.12	3.08	101.43	320.56	0.09	0.02
8	4.82	3	SLE F	3	18	332.00	-187.12	28.00	114.00	0.50	14.00	102.12	3.08	101.43	340.86	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	1428.65	2.50	7619.38	26714.30	7619.38	5.333
1 SLU	1.50	4.46	2.96	ø6/16 2 br.	3.53	0.18	291.10	2.50	5079.58	10017.90	5079.58	17.450
1 SLU	4.46	4.67	0.20	ø6/16 2 br.	3.53	0.18	319.88	2.50	5079.58	10017.90	5079.58	15.880

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

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	35.44	3.08	3.08	3.08	3.08	-326.33	-1506.47	4.616

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	35.44	3.08	3.08	-236.30	626.71	-148.06	26.31
1.90	4	SLE Q	5	35.44	3.08	3.08	-183.15	485.74	-114.76	20.39

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	35.44	-183.15	28.00	134.00	0.50	14.00	93.58	3.08	82.65	485.74	0.14	0.02
4	1.90	3	SLE F	5	19	35.44	-198.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	526.02	0.15	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	235.69	2.50	7185.75	7873.13	7185.75	30.488
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	252.66	2.50	7185.75	7873.13	7185.75	28.441

Travata n. 3019

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

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	38.00	3.08	3.08	3.08	3.08	-420.17	-1506.47	3.585

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	38.00	3.08	3.08	-304.48	807.53	-190.78	33.89
1.90	4	SLE Q	5	38.00	3.08	3.08	-233.94	620.44	-146.58	26.04

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	38.00	-233.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	620.44	0.18	0.03
4	1.90	3	SLE F	5	19	38.00	-254.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	673.89	0.20	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	151.81	2.50	7185.75	7873.13	7185.75	47.334
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	168.77	2.50	7185.75	7873.13	7185.75	42.576

Travate n. 3020 5020 7020 9020 11020 13020 15020 17020 19020

3020 (a) Nodi: 307 325 341
 5020 (b) Nodi: 507 525 541
 7020 (c) Nodi: 707 725 741
 9020 (d) Nodi: 907 925 941
 11020 (e) Nodi: 1107 1125 1141
 13020 (f) Nodi: 1307 1325 1341
 15020 (g) Nodi: 1507 1525 1541
 17020 (h) Nodi: 1707 1725 1741
 19020 (i) Nodi: 1907 1925 1941

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
31	R	50.00	24.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	In	El	X <cm>	Afe S <cm²>	Afe I <cm²>	AfeP S <cm²>	AfeP I <cm²>	My <daNm>	MRdy <daNm>	Sic.
0.351	SLU	c	1		35.00	8.04	8.04	8.04	8.04	-902.27	-5327.58	5.905
0.501	SLU	c	1		50.00	8.04	8.04	8.04	8.04	-902.27	-5327.58	5.905
2.461	SLU	h	1		245.93	8.04	8.04	8.04	8.04	419.56	5327.58	12.698
4.871	SLU	h	1		487.00	8.04	8.04	8.04	8.04	-646.49	-5327.58	8.241
5.551	SLU	i	2		0.00	8.04	8.04	8.04	8.04	-1084.18	-5327.58	4.914
8.561	SLU	i	2		301.25	8.04	8.04	8.04	8.04	488.20	5327.58	10.913
10.221	SLU	a	2		467.00	8.04	8.04	8.04	8.04	-765.26	-5327.58	6.962
10.371	SLU	a	2		482.00	8.04	8.04	8.04	8.04	-765.26	-5327.58	6.962

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	El	X <cm>	Afe S <cm²>	Afe I <cm²>	My <daNm>	σ _f sup <daN/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
0.352	SLE	R c	1		35.00	8.04	8.04	-683.11	475.17	-121.80	16.31
0.354	SLE	Q c	1		35.00	8.04	8.04	-655.46	455.93	-116.86	15.65
0.502	SLE	R c	1		50.00	8.04	8.04	-683.11	475.17	-121.80	16.31
0.504	SLE	Q c	1		50.00	8.04	8.04	-655.46	455.93	-116.86	15.65
2.462	SLE	R h	1		245.93	8.04	8.04	322.78	-57.55	224.53	7.71
2.464	SLE	Q h	1		245.93	8.04	8.04	322.96	-57.58	224.65	7.71
4.872	SLE	R h	1		487.00	8.04	8.04	-500.98	348.48	-89.32	11.96
4.874	SLE	Q h	1		487.00	8.04	8.04	-527.32	366.80	-94.02	12.59
5.552	SLE	R i	2		0.00	8.04	8.04	-828.26	576.13	-147.68	19.78
5.554	SLE	Q i	2		0.00	8.04	8.04	-835.10	580.89	-148.90	19.94
8.562	SLE	R i	2		301.25	8.04	8.04	374.80	-66.83	260.71	8.95
8.564	SLE	Q i	2		301.25	8.04	8.04	374.77	-66.82	260.68	8.95
10.222	SLE	R a	2		467.00	8.04	8.04	-589.43	410.00	-105.09	14.08
10.224	SLE	Q a	2		467.00	8.04	8.04	-591.27	411.28	-105.42	14.12
10.372	SLE	R a	2		482.00	8.04	8.04	-589.43	410.00	-105.09	14.08
10.374	SLE	Q a	2		482.00	8.04	8.04	-591.27	411.28	-105.42	14.12

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 <cm²>	A _{c eff} <cm²>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
21	0.354	SLE	Q c	1	31	31	35.00	-655.46	27.00	144.00	0.50	16.00	110.47	8.04	283.86	455.93	0.13	0.02
30	0.353	SLE	F c	1	31	31	35.00	-663.21	27.00	144.00	0.50	16.00	110.47	8.04	283.86	461.32	0.13	0.03
57	0.504	SLE	Q c	1	31	31	50.00	-655.46	27.00	144.00	0.50	16.00	110.47	8.04	283.86	455.93	0.13	0.02
66	0.503	SLE	F c	1	31	31	50.00	-663.21	27.00	144.00	0.50	16.00	110.47	8.04	283.86	461.32	0.13	0.03
98	2.464	SLE	Q h	1	31	31	245.93	322.96	27.00	144.00	0.50	16.00	110.47	8.04	283.86	224.65	0.07	0.01
107	2.463	SLE	F h	1	31	31	245.93	322.73	27.00	144.00	0.50	16.00	110.47	8.04	283.86	224.48	0.07	0.01
134	4.874	SLE	Q h	1	31	31	487.00	-527.32	27.00	144.00	0.50	16.00	110.47	8.04	283.86	366.80	0.11	0.02
143	4.873	SLE	F h	1	31	31	487.00	-520.11	27.00	144.00	0.50	16.00	110.47	8.04	283.86	361.78	0.11	0.02
171	5.554	SLE	Q i	2	31	31	0.00	-835.10	27.00	144.00	0.50	16.00	110.47	8.04	283.86	580.89	0.17	0.03
180	5.553	SLE	F i	2	31	31	0.00	-833.12	27.00	144.00	0.50	16.00	110.47	8.04	283.86	579.51	0.17	0.03
207	8.564	SLE	Q i	2	31	31	301.25	374.77	27.00	144.00	0.50	16.00	110.47	8.04	283.86	260.68	0.08	0.01
216	8.563	SLE	F i	2	31	31	301.25	374.77	27.00	144.00	0.50	16.00	110.47	8.04	283.86	260.69	0.08	0.01
235	10.224	SLE	Q a	2	31	31	467.00	-591.27	27.00	144.00	0.50	16.00	110.47	8.04	283.86	411.28	0.12	0.02
244	10.223	SLE	F a	2	31	31	467.00	-590.72	27.00	144.00	0.50	16.00	110.47	8.04	283.86	410.90	0.12	0.02
271	10.374	SLE	Q a	2	31	31	482.00	-591.27	27.00	144.00	0.50	16.00	110.47	8.04	283.86	411.28	0.12	0.02
280	10.373	SLE	F a	2	31	31	482.00	-590.72	27.00	144.00	0.50	16.00	110.47	8.04	283.86	410.90	0.12	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	c	ø6/20 2 br.	2.83	0.50	929.55	2.50	4063.67	15359.50	4063.67	4.372
1 SLU	0.72	4.65	3.93	c	ø6/20 2 br.	2.83	0.50	843.68	2.50	4063.67	15359.50	4063.67	4.817
1 SLU	4.65	4.87	0.22	h	ø6/20 2 br.	2.83	0.50	895.53	2.50	4063.67	15359.50	4063.67	4.538
1 SLU	5.55	5.77	0.22	i	ø6/20 2 br.	2.83	0.50	1091.74	2.50	4063.67	15359.50	4063.67	3.722
1 SLU	5.77	10.00	4.23	i	ø6/20 2 br.	2.83	0.50	1005.87	2.50	4063.67	15359.50	4063.67	4.040
1 SLU	10.00	10.22	0.22	a	ø6/20 2 br.	2.83	0.50	881.33	2.50	4063.67	15359.50	4063.67	4.611

Travata n. 3087

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	8.87	1506.47	>100
1.621	SLU	5	18.06	3.08	3.08	3.08	3.08	3.08	52.30	1506.47	28.806
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	11.53	1506.47	>100

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	6.43		-4.03	17.06	0.72
0.004	SLE Q	1	0.00	3.08	3.08	5.08		-3.18	13.47	0.57
1.622	SLE R	5	18.06	3.08	3.08	37.40		-23.44	99.20	4.16
1.624	SLE Q	5	18.06	3.08	3.08	28.03		-17.56	74.33	3.12
3.252	SLE R	9	36.11	3.08	3.08	8.34		-5.23	22.12	0.93
3.254	SLE Q	9	36.11	3.08	3.08	6.59		-4.13	17.47	0.73

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	5.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	13.47	0.00	0.00
4	0.003	SLE	F	1	19	0.00	5.47	28.00	134.00	0.50	14.00	93.58	3.08	82.65	14.49	0.00	0.00
7	1.624	SLE	Q	5	19	18.06	28.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	74.33	0.02	0.00
8	1.623	SLE	F	5	19	18.06	30.70	28.00	134.00	0.50	14.00	93.58	3.08	82.65	81.41	0.02	0.00
11	3.254	SLE	Q	9	19	36.11	6.59	28.00	134.00	0.50	14.00	93.58	3.08	82.65	17.47	0.01	0.00
12	3.253	SLE	F	9	19	36.11	7.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	18.80	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	53.71	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	29.20	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	42.19	2.50	7185.75	7873.13	7185.75	>100

Travata n. 4012

Nodi: 397 453 -1025 437

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	12.13	4.62	12.13	4.62	-8055.88	-25258.20	3.135	

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	12.13	4.62	-5639.49	857.87	-513.95		39.78
3.324	SLE Q	3	52.50	12.13	4.62	-4264.28	648.67	-388.62		30.08

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	-4264.28	29.36	9.60	0.50	12.45	73.10	12.13	140.00		648.67	0.22	0.03
4	3.323	SLE F	3	16	52.50	-4657.07	29.36	9.60	0.50	12.45	73.10	12.13	140.00		708.42	0.21	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	0.22	1.43	1.53	ø8/20 2 br.	5.03	0.16	4403.70	2.50	21672.90	26714.30	21672.90	4.922
1 SLU	1.43	1.94	0.65	ø8/20 2 br.	5.03	0.16	3366.01	2.50	21672.90	26714.30	21672.90	6.439

Relazione di calcolo

1	SLU	2.14	3.32	1.18	ø8/20 2 br.	5.03	0.16	9931.77	2.50	21672.90	26714.30	21672.90	2.182
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Travata n. 5001

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	11.04	1506.47	>100
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	53.03	1506.47	28.407
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	10.11	1506.47	>100

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>
0.002	SLE	R	1	0.00	3.08	3.08	7.98	-5.00	21.16	0.89
0.004	SLE	Q	1	0.00	3.08	3.08	6.31	-3.96	16.74	0.70
1.442	SLE	R	5	0.00	3.08	3.08	37.91	-23.75	100.54	4.22
1.444	SLE	Q	5	0.00	3.08	3.08	28.52	-17.87	75.64	3.17
3.232	SLE	R	9	35.89	3.08	3.08	7.32	-4.58	19.40	0.81
3.234	SLE	Q	9	35.89	3.08	3.08	5.79	-3.63	15.35	0.64

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	6.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	16.74	0.00	0.00
4	0.003	SLE	F	1	19	0.00	6.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	18.01	0.01	0.00
7	1.444	SLE	Q	5	19	0.00	28.52	28.00	134.00	0.50	14.00	93.58	3.08	82.65	75.64	0.02	0.00
8	1.443	SLE	F	5	19	0.00	31.19	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.73	0.02	0.00
11	3.234	SLE	Q	9	19	35.89	5.79	28.00	134.00	0.50	14.00	93.58	3.08	82.65	15.35	0.00	0.00
12	3.233	SLE	F	9	19	35.89	6.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	16.51	0.00	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	42.47	2.50	7185.75	7873.13	7185.75	>100
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	29.05	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	53.55	2.50	7185.75	7873.13	7185.75	>100

Travata n. 5002

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-51.55	-1506.47	29.226
1.971	SLU	6	17.94	3.08	3.08	3.08	3.08	3.08	22.84	1506.47	65.965
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	-48.31	-1506.47	31.181

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>
0.002	SLE	R	1	0.00	3.08	3.08	-37.25	98.80	-23.34	4.15
0.004	SLE	Q	1	0.00	3.08	3.08	-32.16	85.30	-20.15	3.58
1.972	SLE	R	6	17.94	3.08	3.08	16.09	-10.08	42.67	1.79
1.974	SLE	Q	6	17.94	3.08	3.08	14.16	-8.87	37.55	1.58
3.232	SLE	R	9	35.89	3.08	3.08	-33.95	90.04	-21.27	3.78
3.234	SLE	Q	9	35.89	3.08	3.08	-25.16	66.74	-15.77	2.80

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>
5	0.004	SLE	Q	1	19	0.00	-32.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	85.30	0.02	0.00
6	0.003	SLE	F	1	19	0.00	-33.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	89.15	0.03	0.00

Relazione di calcolo

10	1.97	4	SLE Q	6	19	17.94	14.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	37.55	0.01	0.00
11	1.97	3	SLE F	6	19	17.94	14.67	28.00	134.00	0.50	14.00	93.58	3.08	82.65	38.91	0.01	0.00
15	3.23	4	SLE Q	9	19	35.89	-25.16	28.00	134.00	0.50	14.00	93.58	3.08	82.65	66.74	0.02	0.00
17	3.23	3	SLE F	9	19	35.89	-27.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	73.41	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	367.82	2.50	7185.75	7873.13	7185.75	19.536
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	367.82	2.50	7185.75	7873.13	7185.75	19.536
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	233.72	2.50	7185.75	7873.13	7185.75	30.745

Travata n. 5011

Nodi: 556 -1211 -1298 573 -1506 502

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
1.901	SLU	5	35.43	3.08	3.08	3.08	3.08	3.08	-320.39	-1506.47	4.702

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	35.43	3.08	3.08	-232.11	615.58	-145.43	25.84	
1.904	SLE Q	5	35.43	3.08	3.08	-179.00	474.73	-112.15	19.93	

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	35.43	-179.00	28.00	134.00	0.50	14.00	93.58	3.08	82.65	474.73	0.14	0.02	
4	1.903	SLE F	5	19	35.43	-194.17	28.00	134.00	0.50	14.00	93.58	3.08	82.65	514.97	0.15	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	231.07	2.50	7185.75	7873.13	7185.75	31.098
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	248.03	2.50	7185.75	7873.13	7185.75	28.971

Travata n. 5012

Nodi: 585 -1703 597 537

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	SLU	3	332.00	3.08	3.08	3.08	3.08	3.08	-561.56	-2142.71	3.816

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	-402.48	733.17	-196.62	25.87	
4.824	SLE Q	3	332.00	3.08	3.08	-329.13	599.54	-160.78	21.15	

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	-329.13	28.00	114.00	0.50	14.00	102.12	3.08	101.43	599.54	0.17	0.03
4	4.823	SLE	F	3	18	332.00	-350.05	28.00	114.00	0.50	14.00	102.12	3.08	101.43	637.65	0.19	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	2279.27	2.50	7619.38	26714.30	7619.38	3.343

Relazione di calcolo

1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	470.55	2.50	5079.58	10017.90	5079.58	10.795
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	499.34	2.50	5079.58	10017.90	5079.58	10.173

Travata n. 5013

Nodi: 557 -1212 -1299 574 -1507 503

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	1	SLU	5	35.38	6.03	4.02	6.03	4.02	-6697.35	-9551.64	1.426

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	35.38	6.03	4.02	-5018.64	1964.17	-546.29	50.04
1.904	4	SLE Q	5	35.38	6.03	4.02	-4534.77	1774.79	-493.62	45.22

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/cmq>		<mm>
3	1.904	SLE Q	5	30	35.38	-4534.77	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1774.79	0.70	0.15	
4	1.903	SLE F	5	30	35.38	-4673.01	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1828.90	0.65	0.14	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	2934.92	2.50	10241.80	20904.00	10241.80	3.490
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3510.48	2.50	10241.80	20904.00	10241.80	2.917

Travata n. 5016

Nodi: 558 -1213 -1300 575 -1508 504

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	1	SLU	5	35.41	6.03	4.02	6.03	4.02	-6700.18	-9551.64	1.426

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	35.41	6.03	4.02	-5020.20	1964.78	-546.46	50.06
1.904	4	SLE Q	5	35.41	6.03	4.02	-4535.97	1775.26	-493.75	45.23

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	1.904	SLE Q	5	30	35.41	-4535.97	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1775.26	0.70	0.15	
4	1.903	SLE F	5	30	35.41	-4674.31	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1829.41	0.65	0.14	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	Afe St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<cm>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.42	1.42	ø6/18 2 br.	3.14	0.30	2938.55	2.50	10241.80	20904.00	10241.80	3.485
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3502.33	2.50	10241.80	20904.00	10241.80	2.924

Travata n. 5017

Nodi: 588 -1707 598 538

Caratteristiche delle sezioni e dei materiali utilizzati

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

Relazione di calcolo

18	R	18.00	24.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94
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Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
4.821	SLU		3	332.00	3.08	3.08	3.08	3.08	-296.76	-2142.71	7.220

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	-215.44	392.46	-105.25	13.85
4.824	SLE Q		3	332.00	3.08	3.08	-177.69	323.69	-86.81	11.42

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	-177.69	28.00	114.00	0.50	14.00	102.12	3.08	101.43	323.69	0.09	0.02
4	4.823	SLE F		3	18	332.00	-188.49	28.00	114.00	0.50	14.00	102.12	3.08	101.43	343.36	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	2025.36	2.50	7619.38	26714.30	7619.38	3.762
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	293.17	2.50	5079.58	10017.90	5079.58	17.326
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	321.95	2.50	5079.58	10017.90	5079.58	15.777

Travata n. 5018

Nodi: 559 -1214 -1301 576 -1509 505

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	35.44	3.08	3.08	3.08	3.08	-325.47	-1506.47	4.629

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	-235.65	624.97	-147.65	26.23
1.904	SLE Q		5	35.44	3.08	3.08	-182.50	484.00	-114.35	20.32

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	19	35.44	-182.50	28.00	134.00	0.50	14.00	93.58	3.08	82.65	484.00	0.14	0.02
4	1.903	SLE F		5	19	35.44	-197.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	524.28	0.15	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	231.05	2.50	7185.75	7873.13	7185.75	31.100
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	248.02	2.50	7185.75	7873.13	7185.75	28.973

Travata n. 5019

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.901	SLU		5	38.00	3.08	3.08	3.08	3.08	-420.42	-1506.47	3.583

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>

Relazione di calcolo

1.902	SLE R	5	38.00	3.08	3.08	-304.54	807.67	-190.81	33.90
1.904	SLE Q	5	38.00	3.08	3.08	-234.03	620.69	-146.64	26.05

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 off}	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	-234.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65	620.69	0.18	0.03	
4	1.903	SLE F	5	19	38.00	-254.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	674.11	0.20	0.03	

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	152.28	2.50	7185.75	7873.13	7185.75	47.187
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	169.25	2.50	7185.75	7873.13	7185.75	42.457

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>
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	-197.13	-1506.47	7.642
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	200.58	1506.47	7.511
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-197.03	-1506.47	7.646

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	-149.36	396.12	-93.58	16.63	
0.004	SLE Q	1	0.00	3.08	3.08	-140.91	373.70	-88.29	15.69	
1.452	SLE R	5	0.00	3.08	3.08	150.79	-94.48	399.93	16.79	
1.454	SLE Q	5	0.00	3.08	3.08	137.86	-86.38	365.63	15.35	
2.902	SLE R	8	36.25	3.08	3.08	-149.27	395.89	-93.53	16.62	
2.904	SLE Q	8	36.25	3.08	3.08	-140.83	373.51	-88.24	15.68	

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 <cmq>	A _{c eff} <cmq>	σ _s <daN/cm^q>	ε _{sm}	W _k <mm>
3	0.004	SLE	Q	1	19	0.00	-140.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	373.70	0.11	0.02
4	0.003	SLE	F	1	19	0.00	-143.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	380.11	0.11	0.02
7	1.454	SLE	Q	5	19	0.00	137.86	28.00	134.00	0.50	14.00	93.58	3.08	82.65	365.63	0.11	0.02
8	1.453	SLE	F	5	19	0.00	141.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	375.43	0.11	0.02
11	2.904	SLE	Q	8	19	36.25	-140.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	373.51	0.11	0.02
12	2.903	SLE	F	8	19	36.25	-143.24	28.00	134.00	0.50	14.00	93.58	3.08	82.65	379.90	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	902.70	2.50	7185.75	7873.13	7185.75	7.960
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	603.37	2.50	7185.75	7873.13	7185.75	11.909
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	903.09	2.50	7185.75	7873.13	7185.75	7.957

Travata n. 5045

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

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	-50.80	-1506.47	29.655
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	22.43	1506.47	67.149
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	-56.04	-1506.47	26.880

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	-35.72	94.73	-22.38	3.98
0.00	4	SLE Q	1	0.00	3.08	3.08	-26.49	70.26	-16.60	2.95
1.44	2	SLE R	5	0.00	3.08	3.08	15.69	-9.83	41.62	1.75
1.44	4	SLE Q	5	0.00	3.08	3.08	14.10	-8.83	37.39	1.57
3.25	2	SLE R	9	36.11	3.08	3.08	-40.49	107.38	-25.37	4.51
3.25	4	SLE Q	9	36.11	3.08	3.08	-34.83	92.37	-21.82	3.88

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 <cmq>	A _{c eff} <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-26.49	28.00	134.00	0.50	14.00	93.58	3.08	82.65	70.26	0.02	0.00
5	0.00	3	SLE F	1	19	0.00	-29.13	28.00	134.00	0.50	14.00	93.58	3.08	82.65	77.26	0.02	0.00
8	1.44	4	SLE Q	5	19	0.00	14.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	37.39	0.01	0.00
9	1.44	3	SLE F	5	19	0.00	14.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	38.54	0.01	0.00
14	3.25	4	SLE Q	9	19	36.11	-34.83	28.00	134.00	0.50	14.00	93.58	3.08	82.65	92.37	0.03	0.00
15	3.25	3	SLE F	9	19	36.11	-36.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	96.65	0.03	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	230.61	2.50	7185.75	7873.13	7185.75	31.160
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	368.42	2.50	7185.75	7873.13	7185.75	19.504
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	368.42	2.50	7185.75	7873.13	7185.75	19.504

Travata n. 5060

Nodi: 598 454 -1027 438

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	4.62	9.05	4.62	9.05	-9126.50	-9844.88	1.079

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	4.62	9.05	-6402.61	2421.33	-578.47	50.63
3.32	4	SLE Q	3	52.50	4.62	9.05	-4916.76	1859.41	-444.23	38.88

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 <cmq>	A _{c eff} <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
3	3.32	4	SLE Q	3	16	52.50	-4916.76	28.00	45.00	0.50	14.00	98.44	4.62	140.00	1859.41	0.70	0.12
4	3.32	3	SLE F	3	16	52.50	-5340.67	28.00	45.00	0.50	14.00	98.44	4.62	140.00	2019.72	0.68	0.11

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	ø8/20 2 br.	5.03	0.16	4513.56	2.50	21672.90	26714.30	21672.90	4.802
1 SLU	1.21	1.72	0.65	ø8/20 2 br.	5.03	0.16	2343.29	2.50	21672.90	26714.30	21672.90	9.249
1 SLU	1.92	3.32	1.40	ø8/20 2 br.	5.03	0.16	11059.10	2.50	21672.90	26714.30	21672.90	1.960

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	8.86	1506.47	>100
1.62	1	SLU	5	18.06	3.08	3.08	3.08	3.08	52.45	1506.47	28.722
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	11.56	1506.47	>100

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	6.42	-4.02	17.03	0.71
0.004	SLE Q	1	1	0.00	3.08	3.08	5.03	-3.15	13.33	0.56
1.622	SLE R	5	18.06	3.08	3.08	3.08	37.47	-23.48	99.39	4.17
1.624	SLE Q	5	18.06	3.08	3.08	3.08	28.01	-17.55	74.29	3.12
3.252	SLE R	9	36.11	3.08	3.08	3.08	8.35	-5.23	22.15	0.93
3.254	SLE Q	9	36.11	3.08	3.08	3.08	6.60	-4.13	17.49	0.73

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	5.03	28.00	134.00	0.50	14.00	93.58	3.08	82.65		13.33	0.00	0.00
4	0.003	SLE F	1	19	0.00	5.42	28.00	134.00	0.50	14.00	93.58	3.08	82.65		14.38	0.00	0.00
7	1.624	SLE Q	5	19	18.06	28.01	28.00	134.00	0.50	14.00	93.58	3.08	82.65		74.29	0.02	0.00
8	1.623	SLE F	5	19	18.06	30.71	28.00	134.00	0.50	14.00	93.58	3.08	82.65		81.44	0.02	0.00
11	3.254	SLE Q	9	19	36.11	6.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65		17.49	0.01	0.00
12	3.253	SLE F	9	19	36.11	7.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65		18.83	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	53.62	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	29.12	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	42.21	2.50	7185.75	7873.13	7185.75	>100

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/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R	16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AFe S	AFe I	AFeP S	AFeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-4525.99	-13043.50	2.882	

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	52.50	6.16	3.08	-3166.50	926.18	-359.49	29.14	
3.324	SLE Q	3	52.50	6.16	3.08	-2373.49	694.23	-269.46	21.84	

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 <cmq>	A _{c eff} <cmq>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
3	3.324	SLE Q	3	16	52.50	-2373.49	28.00	31.33	0.50	14.00	87.83	6.16	140.00	694.23	0.20	0.03	
4	3.323	SLE F	3	16	52.50	-2599.98	28.00	31.33	0.50	14.00	87.83	6.16	140.00	760.48	0.22	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	1.46	1.60	ø6/32 2 br.	1.77	0.16	4236.90	2.50	7619.38	26714.30	7619.38	1.798
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	2565.05	2.50	7619.38	26714.30	7619.38	2.970
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	6122.87	2.50	15238.80	26714.30	15238.80	2.489

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/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	10.48	1506.47	>100
1.441	SLU	5	0.00	3.08	3.08	3.08	3.08	3.08	52.40	1506.47	28.751
3.231	SLU	9	35.89	3.08	3.08	3.08	3.08	3.08	10.31	1506.47	>100

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	7.57	-4.74	20.08	0.84
0.00	4	SLE Q	1	0.00	3.08	3.08	5.98	-3.75	15.87	0.67
1.44	2	SLE R	5	0.00	3.08	3.08	37.44	-23.46	99.30	4.17
1.44	4	SLE Q	5	0.00	3.08	3.08	28.07	-17.59	74.44	3.12
3.23	2	SLE R	9	35.89	3.08	3.08	7.46	-4.67	19.78	0.83
3.23	4	SLE Q	9	35.89	3.08	3.08	5.87	-3.68	15.57	0.65

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>
3	0.00	4	SLE Q	1	19	0.00	5.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	15.87	0.00	0.00
4	0.00	3	SLE F	1	19	0.00	6.44	28.00	134.00	0.50	14.00	93.58	3.08	82.65	17.07	0.00	0.00
7	1.44	4	SLE Q	5	19	0.00	28.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	74.44	0.02	0.00
8	1.44	3	SLE F	5	19	0.00	30.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	81.52	0.02	0.00
11	3.23	4	SLE Q	9	19	35.89	5.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	15.57	0.00	0.00
12	3.23	3	SLE F	9	19	35.89	6.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	16.77	0.00	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	41.85	2.50	7185.75	7873.13	7185.75	>100
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	29.39	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	53.90	2.50	7185.75	7873.13	7185.75	>100

Travata n. 7002

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

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	-56.45	-1506.47	26.685
1.97	1	SLU	6	17.94	3.08	3.08	3.08	3.08	29.13	1506.47	51.707
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-38.46	-1506.47	39.171

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	-40.95	108.61	-25.66	4.56
0.00	4	SLE Q	1	0.00	3.08	3.08	-35.96	95.37	-22.53	4.00
1.97	2	SLE R	6	17.94	3.08	3.08	20.93	-13.12	55.52	2.33
1.97	4	SLE Q	6	17.94	3.08	3.08	18.99	-11.90	50.36	2.11
3.23	2	SLE R	9	35.89	3.08	3.08	-26.60	70.56	-16.67	2.96
3.23	4	SLE Q	9	35.89	3.08	3.08	-18.40	48.80	-11.53	2.05

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	0.00	4	SLE Q	1	19	0.00	-35.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	95.37	0.03	0.00
6	0.00	3	SLE F	1	19	0.00	-37.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	99.14	0.03	0.00
9	1.97	4	SLE Q	6	19	17.94	18.99	28.00	134.00	0.50	14.00	93.58	3.08	82.65	50.36	0.01	0.00
10	1.97	3	SLE F	6	19	17.94	19.53	28.00	134.00	0.50	14.00	93.58	3.08	82.65	51.80	0.02	0.00
15	3.23	4	SLE Q	9	19	35.89	-18.40	28.00	134.00	0.50	14.00	93.58	3.08	82.65	48.80	0.01	0.00
17	3.23	3	SLE F	9	19	35.89	-20.75	28.00	134.00	0.50	14.00	93.58	3.08	82.65	55.04	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	369.55	2.50	7185.75	7873.13	7185.75	19.445
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	369.55	2.50	7185.75	7873.13	7185.75	19.445
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	241.24	2.50	7185.75	7873.13	7185.75	29.787

Travata n. 7011

Nodi: 756 -1976 -2063 773 -2271 702

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	-321.98	-1506.47	4.679

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	-233.21	618.52	-146.12	25.96
1.90	4	SLE Q	5	35.43	3.08	3.08	-179.77	476.77	-112.64	20.01

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	-179.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	476.77	0.14	0.02
4	1.90	3	SLE F	5	19	35.43	-195.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	517.27	0.15	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	230.19	2.50	7185.75	7873.13	7185.75	31.216
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	247.16	2.50	7185.75	7873.13	7185.75	29.074

Travata n. 7012

Nodi: 785 -2468 797 737

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	-592.29	-2142.71	3.618

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	-423.32	771.13	-206.80	27.21
4.82	4	SLE Q	3	332.00	3.08	3.08	-340.36	620.00	-166.27	21.88

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	4.82	4	SLE Q	3	18	332.00	-340.36	28.00	114.00	0.50	14.00	102.12	3.08	101.43	620.00	0.18	0.03
4	4.82	3	SLE F	3	18	332.00	-364.03	28.00	114.00	0.50	14.00	102.12	3.08	101.43	663.12	0.19	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2208.47	2.50	7619.38	26714.30	7619.38	3.450
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	487.50	2.50	5079.58	10017.90	5079.58	10.420
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	516.28	2.50	5079.58	10017.90	5079.58	9.839

Travata n. 7013

Nodi: 757 -1977 -2064 774 -2272 703

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.38	6.03	4.02	6.03	4.02	-6711.98	-9551.64	1.423

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	35.38	6.03	4.02	-5029.25	1968.32	-547.44	50.15
1.904	SLE	Q	5	35.38	6.03	4.02	-4545.06	1778.82	-494.74	45.32

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	35.38	-4545.06	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1778.82	0.70	0.15
4	1.903	SLE	F	5	30	35.38	-4683.39	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1832.96	0.65	0.14

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	2929.13	2.50	10241.80	20904.00	10241.80	3.497
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3541.87	2.50	10241.80	20904.00	10241.80	2.892

Travata n. 7016

Nodi: 758 -1978 -2065 775 -2273 704

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	-6692.56	-9551.64	1.427

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	-5015.28	1962.85	-545.92	50.01
1.904	SLE	Q	5	35.41	6.03	4.02	-4532.80	1774.02	-493.40	45.20

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	1.904	SLE	Q	5	30	35.41	-4532.80	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1774.02	0.70	0.15
4	1.903	SLE	F	5	30	35.41	-4670.64	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1827.97	0.65	0.14

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	2925.62	2.50	10241.80	20904.00	10241.80	3.501
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3522.44	2.50	10241.80	20904.00	10241.80	2.908

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	-448.47	-2142.71	4.778

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	-321.07	584.87	-156.85	20.64
4.824	SLE	Q	3	332.00	3.08	3.08	-252.86	460.61	-123.53	16.25

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

Relazione di calcolo

	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	4.82	4	SLE Q	3	18	332.00	-252.86	28.00	114.00	0.50	14.00	102.12	3.08	101.43	460.61	0.13	0.02
4	4.82	3	SLE F	3	18	332.00	-272.36	28.00	114.00	0.50	14.00	102.12	3.08	101.43	496.14	0.14	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	1150.79	2.50	7619.38	26714.30	7619.38	6.621
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	395.09	2.50	5079.58	10017.90	5079.58	12.857
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	423.87	2.50	5079.58	10017.90	5079.58	11.984

Travata n. 7018

Nodi: 759 -1979 -2066 776 -2274 705

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.901	1	SLU	5	35.44	3.08	3.08	3.08	3.08	-325.91	-1506.47	4.622

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/cm>	σ _e inf <daN/cm>	σ _c <daN/cm>
1.902		SLE R	5	35.44	3.08	3.08	-235.93	625.72	-147.83	26.26
1.904		SLE Q	5	35.44	3.08	3.08	-182.56	484.17	-114.38	20.32

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>	ε _{sm}	Wk <mm>
3	1.904		SLE Q	5	19	35.44	-182.56	28.00	134.00	0.50	14.00	93.58	3.08	82.65	484.17	0.14	0.02
4	1.903		SLE F	5	19	35.44	-197.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	524.62	0.15	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	226.85	2.50	7185.75	7873.13	7185.75	31.676
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	243.82	2.50	7185.75	7873.13	7185.75	29.472

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/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.901	1	SLU	5	38.00	3.08	3.08	3.08	3.08	-420.46	-1506.47	3.583

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/cm>	σ _e inf <daN/cm>	σ _c <daN/cm>
1.902		SLE R	5	38.00	3.08	3.08	-304.44	807.41	-190.75	33.89
1.904		SLE Q	5	38.00	3.08	3.08	-233.98	620.56	-146.61	26.05

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>	ε _{sm}	Wk <mm>
3	1.904		SLE Q	5	19	38.00	-233.98	28.00	134.00	0.50	14.00	93.58	3.08	82.65	620.56	0.18	0.03
4	1.903		SLE F	5	19	38.00	-254.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	673.93	0.20	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <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	155.43	2.50	7185.75	7873.13	7185.75	46.233
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	172.39	2.50	7185.75	7873.13	7185.75	41.683

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/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	AfeP S <cm²>	AfeP I <cm²>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-197.11	-1506.47	7.643
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	202.41	1506.47	7.442
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-195.04	-1506.47	7.724

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	My <daNm>	σ _e sup <daN/cm²>	σ _e inf <daN/cm²>	σ _c <daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-149.28	395.92	-93.54	16.62
0.00	4	SLE Q	1	0.00	3.08	3.08	-140.80	373.42	-88.22	15.67
1.45	2	SLE R	5	0.00	3.08	3.08	152.18	-95.35	403.60	16.94
1.45	4	SLE Q	5	0.00	3.08	3.08	139.18	-87.21	369.12	15.49
2.90	2	SLE R	8	36.25	3.08	3.08	-147.82	392.05	-92.62	16.46
2.90	4	SLE Q	8	36.25	3.08	3.08	-139.49	369.95	-87.40	15.53

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 <cm²>	A _{c eff} <cm²>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-140.80	28.00	134.00	0.50	14.00	93.58	3.08	82.65	373.42	0.11	0.02
4	0.00	3	SLE F	1	19	0.00	-143.22	28.00	134.00	0.50	14.00	93.58	3.08	82.65	379.86	0.11	0.02
7	1.45	4	SLE Q	5	19	0.00	139.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	369.12	0.11	0.02
8	1.45	3	SLE F	5	19	0.00	142.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	378.97	0.11	0.02
11	2.90	4	SLE Q	8	19	36.25	-139.49	28.00	134.00	0.50	14.00	93.58	3.08	82.65	369.95	0.11	0.02
12	2.90	3	SLE F	8	19	36.25	-141.87	28.00	134.00	0.50	14.00	93.58	3.08	82.65	376.26	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	904.13	2.50	7185.75	7873.13	7185.75	7.948
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	604.41	2.50	7185.75	7873.13	7185.75	11.889
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	902.47	2.50	7185.75	7873.13	7185.75	7.962

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/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
19	R	20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	AfeP S <cm²>	AfeP I <cm²>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLU	1	0.00	3.08	3.08	3.08	3.08	-41.96	-1506.47	35.903
1.08	1	SLU	4	0.00	3.08	3.08	3.08	3.08	26.01	1506.47	57.928
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-62.45	-1506.47	24.125

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	My <daNm>	σ _e sup <daN/cm²>	σ _e inf <daN/cm²>	σ _c <daN/cm²>
0.00	2	SLE R	1	0.00	3.08	3.08	-29.09	77.16	-18.23	3.24
0.00	4	SLE Q	1	0.00	3.08	3.08	-20.34	53.93	-12.74	2.26
1.08	2	SLE R	4	0.00	3.08	3.08	18.60	-11.66	49.34	2.07
1.08	4	SLE Q	4	0.00	3.08	3.08	16.95	-10.62	44.96	1.89
3.25	2	SLE R	9	36.11	3.08	3.08	-45.28	120.08	-28.37	5.04
3.25	4	SLE Q	9	36.11	3.08	3.08	-39.45	104.62	-24.72	4.39

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 <cm²>	A _{c eff} <cm²>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
3	0.00	4	SLE Q	1	19	0.00	-20.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.93	0.02	0.00
5	0.00	3	SLE F	1	19	0.00	-22.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	60.59	0.02	0.00
9	1.08	4	SLE Q	4	19	0.00	16.95	28.00	134.00	0.50	14.00	93.58	3.08	82.65	44.96	0.01	0.00

Relazione di calcolo

10	1.083	SLE F	4	19	0.00	17.39	28.00	134.00	0.50	14.00	93.58	3.08	82.65	46.12	0.01	0.00
13	3.254	SLE Q	9	19	36.11	-39.45	28.00	134.00	0.50	14.00	93.58	3.08	82.65	104.62	0.03	0.00
14	3.253	SLE F	9	19	36.11	-41.11	28.00	134.00	0.50	14.00	93.58	3.08	82.65	109.02	0.03	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	236.76	2.50	7185.75	7873.13	7185.75	30.351
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	366.72	2.50	7185.75	7873.13	7185.75	19.595
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	366.72	2.50	7185.75	7873.13	7185.75	19.595

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.
3.321	1	SLU	3	52.50	3.08	3.08	3.08	3.08	-5027.80	-6639.53	1.321

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	2	SLE R	3	52.50	3.08	3.08	-3524.39	2008.60	-466.93	41.09
3.324	4	SLE Q	3	52.50	3.08	3.08	-2678.91	1526.75	-354.92	31.23

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	3.324	SLE	Q	3	16	52.50	-2678.91	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1526.75	0.46	0.09
4	3.323	SLE	F	3	16	52.50	-2920.13	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1664.22	0.48	0.10

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	4041.31	2.50	7619.38	26714.30	7619.38	1.885
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	1792.82	2.50	7619.38	26714.30	7619.38	4.250
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	6562.98	2.50	15238.80	26714.30	15238.80	2.322

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/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm>	AfE I <cm>	AfEP S <cm>	AfEP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	1	SLU	1	0.00	3.08	3.08	3.08	3.08	8.72	1506.47	>100
1.621	1	SLU	5	18.06	3.08	3.08	3.08	3.08	52.63	1506.47	28.623
3.251	1	SLU	9	36.11	3.08	3.08	3.08	3.08	11.70	1506.47	>100

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	2	SLE R	1	0.00	3.08	3.08	6.32	-3.96	16.76	0.70
0.004	4	SLE Q	1	0.00	3.08	3.08	4.91	-3.08	13.02	0.55
1.622	2	SLE R	5	18.06	3.08	3.08	37.58	-23.55	99.67	4.18
1.624	4	SLE Q	5	18.06	3.08	3.08	28.05	-17.58	74.40	3.12
3.252	2	SLE R	9	36.11	3.08	3.08	8.44	-5.29	22.39	0.94
3.254	4	SLE Q	9	36.11	3.08	3.08	6.68	-4.18	17.71	0.74

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	0.004	SLE Q	1	19	0.00	4.91	28.00	134.00	0.50	14.00	93.58	3.08	82.65	13.02	0.00	0.00	
4	0.003	SLE F	1	19	0.00	5.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	14.09	0.00	0.00	

Relazione di calcolo

7	1.62	4	SLE Q	5	19	18.06	28.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	74.40	0.02	0.00
8	1.62	3	SLE F	5	19	18.06	30.77	28.00	134.00	0.50	14.00	93.58	3.08	82.65	81.60	0.02	0.00
11	3.25	4	SLE Q	9	19	36.11	6.68	28.00	134.00	0.50	14.00	93.58	3.08	82.65	17.71	0.01	0.00
12	3.25	3	SLE F	9	19	36.11	7.18	28.00	134.00	0.50	14.00	93.58	3.08	82.65	19.04	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	53.50	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	29.00	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	42.20	2.50	7185.75	7873.13	7185.75	>100

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/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
16R		16.00	65.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
3.321	SLU	3	52.50	6.16	3.08	6.16	3.08	-3910.16	-13043.50	3.336	

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	6.16	3.08	-2731.49	798.94	-310.10	25.13
3.324	SLE	Q	3	52.50	6.16	3.08	-2007.33	587.13	-227.89	18.47

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	-2007.33	28.00	31.33	0.50	14.00	87.83	6.16	140.00		587.13	0.17	0.03
4	3.323	SLE F	3	16	52.50	-2214.24	28.00	31.33	0.50	14.00	87.83	6.16	140.00		647.65	0.19	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	1.46	1.60	ø6/32 2 br.	1.77	0.16	3597.46	2.50	7619.38	26714.30	7619.38	2.118
1 SLU	1.46	1.94	0.62	ø6/32 2 br.	1.77	0.16	2144.04	2.50	7619.38	26714.30	7619.38	3.554
1 SLU	2.14	3.32	1.18	ø6/16 2 br.	3.53	0.16	5357.20	2.50	15238.80	26714.30	15238.80	2.845

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/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
19R		20.00	18.00	3.50	3.50	370.50	28.35	262.44	174.96	15.75	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.001	1	SLU	1	0.00	3.08	3.08	3.08	3.08	11.55	1506.47	>100
1.441	1	SLU	5	0.00	3.08	3.08	3.08	3.08	56.49	1506.47	26.667
3.231	1	SLU	9	35.89	3.08	3.08	3.08	3.08	10.86	1506.47	>100

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>	σ _f inf <daN/cm>	σ _c <daN/cm>
0.002	SLE R	1	0.00	3.08	3.08	8.33	-5.22	22.10	0.93	
0.004	SLE Q	1	0.00	3.08	3.08	6.54	-4.10	17.34	0.73	
1.442	SLE R	5	0.00	3.08	3.08	40.32	-25.27	106.94	4.49	
1.444	SLE Q	5	0.00	3.08	3.08	30.21	-18.93	80.13	3.36	
3.232	SLE R	9	35.89	3.08	3.08	7.82	-4.90	20.75	0.87	
3.234	SLE Q	9	35.89	3.08	3.08	6.12	-3.84	16.24	0.68	

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 <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
3	0.004	SLE Q	1	19	0.00	6.54	28.00	134.00	0.50	14.00	93.58	3.08	82.65	17.34	0.01	0.00	

Relazione di calcolo

4	0.00	3	SLE F	1	19	0.00	7.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	18.71	0.01	0.00
7	1.44	4	SLE Q	5	19	0.00	30.21	28.00	134.00	0.50	14.00	93.58	3.08	82.65	80.13	0.02	0.00
8	1.44	3	SLE F	5	19	0.00	33.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	87.77	0.03	0.00
11	3.23	4	SLE Q	9	19	35.89	6.12	28.00	134.00	0.50	14.00	93.58	3.08	82.65	16.24	0.00	0.00
12	3.23	3	SLE F	9	19	35.89	6.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	17.53	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	43.40	2.50	7185.75	7873.13	7185.75	>100
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	28.85	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	53.36	2.50	7185.75	7873.13	7185.75	>100

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/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	-66.34	-1506.47	22.707
1.97	1	SLU	6	17.94	3.08	3.08	3.08	3.08	33.85	1506.47	44.506
3.23	1	SLU	9	35.89	3.08	3.08	3.08	3.08	-39.13	-1506.47	38.504

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	-48.24	127.94	-30.23	5.37
0.00	4	SLE Q	1	0.00	3.08	3.08	-42.74	113.36	-26.78	4.76
1.97	2	SLE R	6	17.94	3.08	3.08	24.34	-15.25	64.56	2.71
1.97	4	SLE Q	6	17.94	3.08	3.08	22.05	-13.81	58.47	2.45
3.23	2	SLE R	9	35.89	3.08	3.08	-26.97	71.52	-16.90	3.00
3.23	4	SLE Q	9	35.89	3.08	3.08	-18.08	47.94	-11.33	2.01

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	-42.74	28.00	134.00	0.50	14.00	93.58	3.08	82.65	113.36	0.03	0.01
4	0.00	3	SLE F	1	19	0.00	-44.31	28.00	134.00	0.50	14.00	93.58	3.08	82.65	117.51	0.03	0.01
7	1.97	4	SLE Q	6	19	17.94	22.05	28.00	134.00	0.50	14.00	93.58	3.08	82.65	58.47	0.02	0.00
8	1.97	3	SLE F	6	19	17.94	22.64	28.00	134.00	0.50	14.00	93.58	3.08	82.65	60.05	0.02	0.00
13	3.23	4	SLE Q	9	19	35.89	-18.08	28.00	134.00	0.50	14.00	93.58	3.08	82.65	47.94	0.01	0.00
15	3.23	3	SLE F	9	19	35.89	-20.63	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.71	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	380.50	2.50	7185.75	7873.13	7185.75	18.885
1 SLU	0.14	3.08	2.94	ø6/ 8 2 br.	7.07	0.20	380.50	2.50	7185.75	7873.13	7185.75	18.885
1 SLU	3.08	3.23	0.14	ø6/ 8 2 br.	7.07	0.20	228.46	2.50	7185.75	7873.13	7185.75	31.453

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/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	-357.15	-1506.47	4.218

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	-258.67	686.02	-162.07	28.79
1.90	4	SLE Q	5	35.43	3.08	3.08	-200.10	530.70	-125.38	22.28

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	-200.10	28.00	134.00	0.50	14.00	93.58	3.08	82.65	530.70	0.15	0.02
4	1.90	3	SLE F	5	19	35.43	-216.84	28.00	134.00	0.50	14.00	93.58	3.08	82.65	575.08	0.17	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	346.43	2.50	7185.75	7873.13	7185.75	20.742
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	363.40	2.50	7185.75	7873.13	7185.75	19.774

Travata n. 9012

Nodi: 985 -3233 997 937

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	-551.89	-2142.71	3.882

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	-394.57	718.75	-192.75	25.36
4.82	4	SLE Q	3	332.00	3.08	3.08	-315.10	573.99	-153.93	20.25

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	-315.10	28.00	114.00	0.50	14.00	102.12	3.08	101.43	573.99	0.17	0.03
4	4.82	3	SLE F	3	18	332.00	-337.78	28.00	114.00	0.50	14.00	102.12	3.08	101.43	615.30	0.18	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	2154.71	2.50	7619.38	26714.30	7619.38	3.536
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	468.66	2.50	5079.58	10017.90	5079.58	10.839
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	497.44	2.50	5079.58	10017.90	5079.58	10.211

Travata n. 9013

Nodi: 957 -2742 -2829 974 -3037 903

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.90	1	SLU	5	35.38	6.03	4.02	6.03	4.02	-6754.88	-9551.64	1.414

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	35.38	6.03	4.02	-5060.87	1980.70	-550.88	50.46
1.90	4	SLE Q	5	35.38	6.03	4.02	-4570.21	1788.67	-497.48	45.57

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}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
3	1.90	4	SLE Q	5	30	35.38	-4570.21	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1788.67	0.71	0.15
4	1.90	3	SLE F	5	30	35.38	-4710.38	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1843.53	0.66	0.14

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	1.42	1.42	ø6/18 2 br.	3.14	0.30	2960.83	2.50	10241.80	20904.00	10241.80	3.459
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3605.93	2.50	10241.80	20904.00	10241.80	2.840

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/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	35.41	6.03	4.02	6.03	4.02	-6738.68	-9551.64	1.417

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	1	SLE R	5	35.41	6.03	4.02	-5048.82	1975.98	-549.57	50.34
1.904	1	SLE Q	5	35.41	6.03	4.02	-4560.44	1784.84	-496.41	45.47

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	1	SLE Q	5	30	35.41	-4560.44	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1784.84	0.71	0.15
4	1.903	1	SLE F	5	30	35.41	-4699.97	27.00	116.00	0.50	16.00	123.63	6.03	262.50	1839.45	0.65	0.14

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	2960.12	2.50	10241.80	20904.00	10241.80	3.460
1 SLU	1.42	1.90	0.48	ø6/18 2 br.	3.14	0.30	3589.25	2.50	10241.80	20904.00	10241.80	2.853

Travata n. 9017

Nodi: 988 -3237 998 938

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	1	SLU	3	332.00	3.08	3.08	3.08	3.08	-436.54	-2142.71	4.908

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	1	SLE R	3	332.00	3.08	3.08	-312.50	569.26	-152.66	20.09
4.824	1	SLE Q	3	332.00	3.08	3.08	-244.37	445.15	-119.38	15.71

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	4.824	1	SLE Q	3	18	332.00	-244.37	28.00	114.00	0.50	14.00	102.12	3.08	101.43	445.15	0.13	0.02
4	4.823	1	SLE F	3	18	332.00	-263.86	28.00	114.00	0.50	14.00	102.12	3.08	101.43	480.66	0.14	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	1.50	1.50	ø6/32 2 br.	1.77	0.16	1131.49	2.50	7619.38	26714.30	7619.38	6.734
1 SLU	1.50	4.62	3.12	ø6/16 2 br.	3.53	0.18	396.33	2.50	5079.58	10017.90	5079.58	12.816
1 SLU	4.62	4.82	0.20	ø6/16 2 br.	3.53	0.18	425.12	2.50	5079.58	10017.90	5079.58	11.949

Travata n. 9018

Nodi: 959 -2744 -2831 976 -3039 905

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	35.44	3.08	3.08	3.08	3.08	-368.06	-1506.47	4.093

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	35.44	3.08	3.08	-266.29	706.23	-166.85	29.64
1.90	4	SLE Q	5	35.44	3.08	3.08	-207.46	550.22	-129.99	23.09

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 <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	35.44	-207.46	28.00	134.00	0.50	14.00	93.58	3.08	82.65	550.22	0.16	0.03
4	1.90	3	SLE F	5	19	35.44	-224.27	28.00	134.00	0.50	14.00	93.58	3.08	82.65	594.80	0.17	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 ◄	X1 ◄	Lung. ◄	Staff.	AfE St. ◄cmq/m	bw ◄	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	352.06	2.50	7185.75	7873.13	7185.75	20.410
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	369.03	2.50	7185.75	7873.13	7185.75	19.472

Travata n. 9019

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

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	38.00	3.08	3.08	3.08	3.08	-462.65	-1506.47	3.256

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	38.00	3.08	3.08	-334.80	887.95	-209.78	37.27
1.90	4	SLE Q	5	38.00	3.08	3.08	-257.49	682.89	-161.33	28.66

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 <cm>	A _{c eff} <cm>	σ _s <daN/cm>	ε _{sm}	Wk <mm>
3	1.90	4	SLE Q	5	19	38.00	-257.49	28.00	134.00	0.50	14.00	93.58	3.08	82.65	682.89	0.20	0.03
4	1.90	3	SLE F	5	19	38.00	-279.57	28.00	134.00	0.50	14.00	93.58	3.08	82.65	741.47	0.22	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	1.75	1.75	ø6/ 8 2 br.	7.07	0.20	249.27	2.50	7185.75	7873.13	7185.75	28.827
1 SLU	1.75	1.90	0.14	ø6/ 8 2 br.	7.07	0.20	266.24	2.50	7185.75	7873.13	7185.75	26.990

Travata n. 9044

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

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	-196.12	-1506.47	7.681
1.45	1	SLU	5	0.00	3.08	3.08	3.08	3.08	203.92	1506.47	7.388
2.90	1	SLU	8	36.25	3.08	3.08	3.08	3.08	-194.13	-1506.47	7.760

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	-148.58	394.05	-93.10	16.54
0.00	4	SLE Q	1	0.00	3.08	3.08	-140.14	371.66	-87.80	15.60
1.45	2	SLE R	5	0.00	3.08	3.08	153.28	-96.04	406.53	17.06
1.45	4	SLE Q	5	0.00	3.08	3.08	140.19	-87.84	371.82	15.61
2.90	2	SLE R	8	36.25	3.08	3.08	-147.14	390.25	-92.20	16.38
2.90	4	SLE Q	8	36.25	3.08	3.08	-138.89	368.35	-87.02	15.46

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	-140.14	28.00	134.00	0.50	14.00	93.58	3.08	82.65	371.66	0.11	0.02
4	0.00	3	SLE F	1	19	0.00	-142.55	28.00	134.00	0.50	14.00	93.58	3.08	82.65	378.06	0.11	0.02
7	1.45	4	SLE Q	5	19	0.00	140.19	28.00	134.00	0.50	14.00	93.58	3.08	82.65	371.82	0.11	0.02
8	1.45	3	SLE F	5	19	0.00	143.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	381.73	0.11	0.02
11	2.90	4	SLE Q	8	19	36.25	-138.89	28.00	134.00	0.50	14.00	93.58	3.08	82.65	368.35	0.11	0.02
12	2.90	3	SLE F	8	19	36.25	-141.25	28.00	134.00	0.50	14.00	93.58	3.08	82.65	374.61	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	903.95	2.50	7185.75	7873.13	7185.75	7.949
1 SLU	0.14	2.75	2.61	ø6/ 8 2 br.	7.07	0.20	604.24	2.50	7185.75	7873.13	7185.75	11.892
1 SLU	2.75	2.90	0.14	ø6/ 8 2 br.	7.07	0.20	902.25	2.50	7185.75	7873.13	7185.75	7.964

Travata n. 9045

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

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	-43.15	-1506.47	34.914
1.18	1	SLU	4	9.80	3.08	3.08	3.08	3.08	30.65	1506.47	49.144
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-75.11	-1506.47	20.056

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	-29.83	79.12	-18.69	3.32
0.00	4	SLE Q	1	0.00	3.08	3.08	-20.36	54.00	-12.76	2.27
1.18	2	SLE R	4	9.80	3.08	3.08	21.89	-13.71	58.05	2.44
1.18	4	SLE Q	4	9.80	3.08	3.08	19.81	-12.41	52.54	2.21
3.25	2	SLE R	9	36.11	3.08	3.08	-54.53	144.63	-34.17	6.07
3.25	4	SLE Q	9	36.11	3.08	3.08	-47.96	127.19	-30.05	5.34

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	0.00	4	SLE Q	1	19	0.00	-20.36	28.00	134.00	0.50	14.00	93.58	3.08	82.65	54.00	0.02	0.00
5	0.00	3	SLE F	1	19	0.00	-23.07	28.00	134.00	0.50	14.00	93.58	3.08	82.65	61.19	0.02	0.00
9	1.18	4	SLE Q	4	19	9.80	19.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	52.54	0.02	0.00
10	1.18	3	SLE F	4	19	9.80	20.34	28.00	134.00	0.50	14.00	93.58	3.08	82.65	53.94	0.02	0.00
13	3.25	4	SLE Q	9	19	36.11	-47.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	127.19	0.04	0.01
14	3.25	3	SLE F	9	19	36.11	-49.82	28.00	134.00	0.50	14.00	93.58	3.08	82.65	132.14	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.00	0.14	0.14	ø6/ 8 2 br.	7.07	0.20	222.78	2.50	7185.75	7873.13	7185.75	32.255
1 SLU	0.14	3.10	2.96	ø6/ 8 2 br.	7.07	0.20	386.31	2.50	7185.75	7873.13	7185.75	18.601
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	386.31	2.50	7185.75	7873.13	7185.75	18.601

Travata n. 9060

Nodi: 998 854 -2557 838

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
3.321	SLU	3	52.50	3.08	3.08	3.08	3.08	3.08	-4226.77	-6639.53	1.571

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	3.08	3.08	-2957.68	1685.63	-391.85	34.48	
3.324	SLE Q	3	52.50	3.08	3.08	-2197.85	1252.59	-291.18	25.62	

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	3.324	SLE Q	3	16	52.50	-2197.85	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1252.59	0.36	0.07	
4	3.323	SLE F	3	16	52.50	-2414.75	28.00	94.00	0.50	14.00	119.66	3.08	140.00	1376.21	0.40	0.08	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>/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	3244.50	2.50	7619.38	26714.30	7619.38	2.348
1 SLU	1.24	1.72	0.62	ø6/32 2 br.	1.77	0.16	996.01	2.50	7619.38	26714.30	7619.38	7.650
1 SLU	1.92	3.32	1.40	ø6/16 2 br.	3.53	0.16	5582.89	2.50	15238.80	26714.30	15238.80	2.730

Travata n. 9087

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

Caratteristiche delle sezioni e dei materiali utilizzati

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

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	8.81	1506.47	>100
1.621	SLU	5	18.06	3.08	3.08	3.08	3.08	3.08	56.72	1506.47	26.562
3.251	SLU	9	36.11	3.08	3.08	3.08	3.08	3.08	12.99	1506.47	>100

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	6.37	-3.99	16.88	0.71	
0.004	SLE Q	1	0.00	3.08	3.08	4.85	-3.04	12.86	0.54	
1.622	SLE R	5	18.06	3.08	3.08	40.44	-25.34	107.26	4.50	
1.624	SLE Q	5	18.06	3.08	3.08	30.09	-18.85	79.79	3.35	
3.252	SLE R	9	36.11	3.08	3.08	9.36	-5.86	24.82	1.04	
3.254	SLE Q	9	36.11	3.08	3.08	7.38	-4.62	19.56	0.82	

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	4.85	28.00	134.00	0.50	14.00	93.58	3.08	82.65	12.86	0.00	0.00
4	0.003	SLE	F	1	19	0.00	5.28	28.00	134.00	0.50	14.00	93.58	3.08	82.65	14.01	0.00	0.00
7	1.624	SLE	Q	5	19	18.06	30.09	28.00	134.00	0.50	14.00	93.58	3.08	82.65	79.79	0.02	0.00
8	1.623	SLE	F	5	19	18.06	33.04	28.00	134.00	0.50	14.00	93.58	3.08	82.65	87.61	0.03	0.00
11	3.254	SLE	Q	9	19	36.11	7.38	28.00	134.00	0.50	14.00	93.58	3.08	82.65	19.56	0.01	0.00
12	3.253	SLE	F	9	19	36.11	7.94	28.00	134.00	0.50	14.00	93.58	3.08	82.65	21.06	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm>/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	53.54	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	29.03	2.50	7185.75	7873.13	7185.75	>100
1 SLU	3.10	3.25	0.14	ø6/ 8 2 br.	7.07	0.20	43.13	2.50	7185.75	7873.13	7185.75	>100

Travata n. 2012

Nodi: 253 -7161 -251 -7165 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>
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>	
1.25	1	SLU	4	-6.25	3.08	1.57	3.08	1.57	-2304.27	-6638.54	2.881

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	-1660.06	952.25	-241.80	20.92
1.25	4	SLE Q	4	-6.25	3.08	1.57	-1286.16	737.78	-187.34	16.21

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	-1286.16	28.00	94.00	0.50	14.00	119.66	3.08	140.00	737.78	0.21	0.04
4	1.25	3	SLE F	4	16	-6.25	-1392.99	28.00	94.00	0.50	14.00	119.66	3.08	140.00	799.06	0.23	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.	
1	SLU	0.04	1.25	1.21	ø6/16 2 br.	3.53	0.16	1092.56	2.50	15238.80	26714.30	15238.80	13.948

Travate n. 23101 23201 23301 23401 23501 23601 23701 23801 23901

23101 (a) Nodi: 303 385
23201 (b) Nodi: 503 585
23301 (c) Nodi: 703 785
23401 (d) Nodi: 903 985
23501 (e) Nodi: 1103 1185
23601 (f) Nodi: 1303 1385
23701 (g) Nodi: 1503 1585
23801 (h) Nodi: 1703 1785
23901 (i) Nodi: 1903 1985

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
54	R	46.00	24.00	3.50	3.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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>	
0.35	1	SLU	a	1	35.00	6.03	6.03	6.03	6.03	-1625.90	-4454.25	2.740

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	In	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>
0.35	2	SLE R	a	1	35.00	6.03	6.03	-1204.86	1107.92	-242.12	34.67
0.35	4	SLE Q	a	1	35.00	6.03	6.03	-1127.17	1036.48	-226.51	32.44

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	In	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>
19	0.35	4	SLE Q	a	1	54	35.00	-1127.17	27.00	194.00	0.50	16.00	130.88	6.03	267.58	1036.48	0.30	0.07
28	0.35	3	SLE F	a	1	54	35.00	-1149.34	27.00	194.00	0.50	16.00	130.88	6.03	267.58	1056.87	0.31	0.07

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	In	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>			<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SLU	0.50	0.74	0.24	a	ø8/10 2 br.	10.05	0.46	1206.35	2.50	18144.70	24088.00	18144.70	15.041
1 SLU	0.74	5.51	4.77	a	ø8/10 2 br.	10.05	0.46	1120.24	2.50	18144.70	24088.00	18144.70	16.197

Travate n. 23102 23202 23302 23402 23502 23602 23702 23802 23902

23102 (a) Nodi: 304 388
23202 (b) Nodi: 504 588
23302 (c) Nodi: 704 788
23402 (d) Nodi: 904 988
23502 (e) Nodi: 1104 1188
23602 (f) Nodi: 1304 1388
23702 (g) Nodi: 1504 1588

Relazione di calcolo

23802 (h) Nodi: 1704 1788

23902 (i) Nodi: 1904 1988

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
54	R	46.00	24.00	3.50	3.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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>	
0.35	1	SLU	a	1	35.00	6.03	6.03	6.03	6.03	-1676.21	-4454.25	2.657

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	In	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>
0.35	2	SLE R	a	1	35.00	6.03	6.03	-1239.13	1139.43	-249.01	35.66
0.35	4	SLE Q	a	1	35.00	6.03	6.03	-1156.30	1063.26	-232.36	33.27

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	In	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>
19	0.35	4	SLE Q	a	1	54	35.00	-1156.30	27.00	194.00	0.50	16.00	130.88	6.03	267.58	1063.26	0.31	0.07
28	0.35	3	SLE F	a	1	54	35.00	-1179.92	27.00	194.00	0.50	16.00	130.88	6.03	267.58	1084.99	0.32	0.07

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	In	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.	
	<m>	<m>	<m>			<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>		
1	SLU	0.50	0.74	0.24	b	ø8/10 2 br.	10.05	0.46	1260.24	2.50	18144.70	24088.00	18144.70	14.398
1	SLU	0.74	5.51	4.77	b	ø8/10 2 br.	10.05	0.46	1174.13	2.50	18144.70	24088.00	18144.70	15.454

Travate n. 30007 50007 70007 90007 110007 130007 170007 190007

30007 (a) Nodi: 386 -926 387

50007 (b) Nodi: 586 -1700 587

70007 (c) Nodi: 786 -2465 787

90007 (d) Nodi: 986 -3230 987

110007 (e) Nodi: 1186 -3995 1187

130007 (f) Nodi: 1386 -4760 1387

170007 (g) Nodi: 1786 -6291 1787

190007 (h) Nodi: 1986 -7056 1987

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>
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

Travata priva di sollecitazioni perché adiacente ad un muro o per altri motivi

Stato limite d'esercizio - Verifiche tensionali

Travata priva di sollecitazioni perché adiacente ad un muro o per altri motivi

Stato limite ultimo - Verifiche a taglio

Travata priva di sollecitazioni perché adiacente ad un muro o per altri motivi

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

Relazione di calcolo

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

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>	b <cm>	H <cm>	h <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
57	L	130.00	30.00	24.00	26.00	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 <cm²>	AfE I <cm²>	AfEP S <cm²>	AfEP I <cm²>	My <daNm>	MRdy <daNm>	Sic.
0.201	SLU	c	1		20.00	17.59	16.59	17.59	16.59	-6195.53	-27341.00	4.413
1.441	SLU	i	5		0.00	11.44	16.59	11.44	16.59	6738.20	26660.80	3.957
3.031	SLU	a	9		15.89	25.32	16.59	25.32	16.59	-4618.07	-38952.50	8.435
3.431	SLU	c	10		20.00	25.32	16.59	25.32	16.59	-7068.45	-38952.50	5.511
5.021	SLU	d	15		0.00	11.44	16.59	11.44	16.59	2719.80	26660.80	9.802
6.261	SLU	h	18		15.89	22.31	20.73	22.31	20.73	-8826.06	-34590.10	3.919
6.661	SLU	i	19		20.00	22.31	20.73	22.31	20.73	-4865.22	-34590.10	7.110
7.911	SLU	d	23		0.00	11.44	14.58	11.44	14.58	2170.22	23546.10	10.850
9.161	SLU	i	26		16.25	31.73	33.24	31.73	33.24	-4802.33	-49116.00	10.227
9.561	SLU	h	27		20.00	22.31	23.81	22.31	23.81	-9183.54	-34605.30	3.768
10.441	SLU	d	30		0.00	11.44	19.67	11.44	19.67	2524.80	31418.60	12.444
12.411	SLU	c	35		16.11	23.78	26.86	23.78	26.86	-6676.17	-36884.20	5.525
12.811	SLU	d	36		20.00	23.78	26.86	23.78	26.86	-4700.82	-36884.20	7.846
14.051	SLU	i	40		0.00	11.44	16.62	11.44	16.62	5980.62	26709.40	4.466
15.661	SLU	a	44		16.11	19.98	18.98	19.98	18.98	-5070.02	-31015.50	6.117
16.061	SLU	a	45		20.00	19.98	18.98	19.98	18.98	-3227.16	-31015.50	9.611
18.011	SLU	i	45		215.00	11.44	14.36	11.44	14.36	4718.08	23205.40	4.918
18.981	SLU	c	45		312.50	19.23	14.36	19.23	14.36	-6030.25	-29815.80	4.944

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	El	X <cm>	AfE S <cm²>	AfE I <cm²>	My <daNm>	σ _f sup <daN/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
0.202	SLE	R c	1		20.00	17.59	16.59	-4452.04	605.98	-279.98	23.47
0.204	SLE	Q c	1		20.00	17.59	16.59	-3638.99	495.31	-228.85	19.19
1.442	SLE	R i	5		0.00	11.44	16.59	4787.37	-138.15	672.65	13.61
1.444	SLE	Q i	5		0.00	11.44	16.59	3772.80	-108.88	530.10	10.73
3.032	SLE	R a	9		15.89	25.32	16.59	-3275.77	314.56	-195.22	15.78
3.034	SLE	Q a	9		15.89	25.32	16.59	-2822.05	270.99	-168.19	13.60
3.432	SLE	R c	10		20.00	25.32	16.59	-5139.49	493.52	-306.30	24.76
3.434	SLE	Q c	10		20.00	25.32	16.59	-4622.12	443.84	-275.46	22.27
5.022	SLE	R d	15		0.00	11.44	16.59	1973.52	-56.95	277.29	5.61
5.024	SLE	Q d	15		0.00	11.44	16.59	1766.34	-50.97	248.18	5.02
6.262	SLE	R h	18		15.89	22.31	20.73	-6181.48	664.97	-343.26	28.35
6.264	SLE	Q h	18		15.89	22.31	20.73	-5087.08	547.24	-282.49	23.33
6.662	SLE	R i	19		20.00	22.31	20.73	-3435.84	369.61	-190.79	15.76
6.664	SLE	Q i	19		20.00	22.31	20.73	-2755.41	296.41	-153.01	12.64
7.912	SLE	R d	23		0.00	11.44	14.58	1584.52	-46.69	252.31	4.74
7.914	SLE	Q d	23		0.00	11.44	14.58	1414.35	-41.68	225.22	4.23
9.162	SLE	R i	26		16.25	31.73	33.24	-3394.48	255.70	-143.61	11.74
9.164	SLE	Q i	26		16.25	31.73	33.24	-2715.42	204.55	-114.88	9.39
9.562	SLE	R h	27		20.00	22.31	23.81	-6440.26	689.65	-336.08	27.97
9.564	SLE	Q h	27		20.00	22.31	23.81	-5250.07	562.20	-273.97	22.80
10.442	SLE	R h	30		0.00	11.44	19.67	-907.89	186.70	-56.38	5.08
10.442	SLE	R d	30		0.00	11.44	19.67	1832.02	-51.30	218.37	4.88
10.444	SLE	Q d	30		0.00	11.44	19.67	1659.91	-46.48	197.85	4.42
12.412	SLE	R c	35		16.11	23.78	26.86	-4861.78	487.47	-237.48	19.77
12.414	SLE	Q c	35		16.11	23.78	26.86	-4397.32	440.90	-214.79	17.88
12.812	SLE	R d	36		20.00	23.78	26.86	-3343.89	335.28	-163.34	13.59
12.814	SLE	Q d	36		20.00	23.78	26.86	-2890.44	289.81	-141.19	11.75
14.052	SLE	R i	40		0.00	11.44	16.62	4237.80	-122.25	594.35	12.04
14.054	SLE	Q i	40		0.00	11.44	16.62	3324.61	-95.91	466.27	9.44
15.662	SLE	R b	44		16.11	19.98	18.98	-3624.10	434.66	-212.10	17.65
15.664	SLE	Q a	44		16.11	19.98	18.98	-3065.45	367.65	-179.41	14.93
16.062	SLE	R a	45		20.00	19.98	18.98	-2295.08	275.26	-134.32	11.18
16.064	SLE	Q a	45		20.00	19.98	18.98	-2082.08	249.71	-121.86	10.14
18.012	SLE	R c	45		215.00	11.44	14.36	-1670.35	345.75	-118.26	10.40
18.012	SLE	R i	45		215.00	11.44	14.36	3331.87	-98.41	538.43	10.02
18.014	SLE	Q c	45		215.00	11.44	14.36	-1348.69	279.17	-95.48	8.40
18.982	SLE	R c	45		312.50	19.23	14.36	-4273.35	536.53	-279.44	23.06
18.984	SLE	Q c	45		312.50	19.23	14.36	-3608.57	453.06	-235.97	19.47

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>
23	0.20	4	SLE Q	c	1	57	20.00	-3638.99	28.27	122.00	0.50	15.14	154.40	17.59	1137.50	495.31	0.14	0.04
33	0.20	3	SLE F	c	1	57	20.00	-3870.50	28.27	122.00	0.50	15.14	154.40	17.59	1137.50	526.82	0.15	0.04
67	1.44	4	SLE Q	i	5	57	0.00	3772.80	28.00	29.50	0.50	16.57	107.95	3.64	114.25	530.10	0.15	0.03
76	1.44	3	SLE F	i	5	57	0.00	4047.90	28.00	29.50	0.50	16.57	107.95	3.64	114.25	568.75	0.17	0.03
101	3.03	4	SLE Q	a	9	57	15.89	-2822.05	28.41	76.25	0.50	14.39	121.48	25.32	1137.50	270.99	0.08	0.02
112	3.03	3	SLE F	a	9	57	15.89	-2951.89	28.41	76.25	0.50	14.39	121.48	25.32	1137.50	283.45	0.08	0.02
148	3.43	4	SLE Q	c	10	57	20.00	-4622.12	28.41	76.25	0.50	14.39	121.48	25.32	1137.50	443.84	0.13	0.03
159	3.43	3	SLE F	c	10	57	20.00	-4768.80	28.41	76.25	0.50	14.39	121.48	25.32	1137.50	457.93	0.13	0.03
195	5.02	4	SLE Q	d	15	57	0.00	1766.34	28.00	29.50	0.50	16.57	107.95	3.64	114.25	248.18	0.07	0.01
212	5.02	3	SLE F	h	15	57	0.00	-497.60	28.43	206.00	0.50	15.83	269.80	11.44	1137.50	102.68	0.03	0.01
246	6.26	4	SLE Q	h	18	57	15.89	-5087.08	28.88	76.25	0.50	13.65	127.39	22.31	1137.50	547.24	0.16	0.03
256	6.26	3	SLE F	h	18	57	15.89	-5393.34	28.88	76.25	0.50	13.65	127.39	22.31	1137.50	580.19	0.17	0.04
284	6.66	4	SLE Q	i	19	57	20.00	-2755.41	28.88	76.25	0.50	13.65	127.39	22.31	1137.50	296.41	0.09	0.02
293	6.66	3	SLE F	i	19	57	20.00	-2937.51	28.88	76.25	0.50	13.65	127.39	22.31	1137.50	316.00	0.09	0.02
320	7.91	4	SLE Q	i	23	57	0.00	-439.70	28.43	206.00	0.50	15.83	266.89	11.44	1137.50	90.99	0.03	0.01
329	7.91	3	SLE F	i	23	57	0.00	-474.50	28.43	206.00	0.50	15.83	266.89	11.44	1137.50	98.19	0.03	0.01
356	9.16	4	SLE Q	i	26	57	16.25	-2715.42	28.30	64.21	0.50	15.07	110.64	31.73	1137.50	204.55	0.06	0.01
365	9.16	3	SLE F	i	26	57	16.25	-2897.61	28.30	64.21	0.50	15.07	110.64	31.73	1137.50	218.27	0.06	0.01
395	9.56	4	SLE Q	h	27	57	20.00	-5250.07	28.88	76.25	0.50	13.65	127.39	22.31	1137.50	562.20	0.16	0.04
405	9.56	3	SLE F	h	27	57	20.00	-5583.27	28.88	76.25	0.50	13.65	127.39	22.31	1137.50	597.88	0.17	0.04
440	10.44	4	SLE Q	h	30	57	0.00	-625.14	28.43	206.00	0.50	15.83	273.95	11.44	1137.50	128.56	0.04	0.02
452	10.44	3	SLE F	h	30	57	0.00	-702.52	28.43	206.00	0.50	15.83	273.95	11.44	1137.50	144.47	0.04	0.02
479	12.41	4	SLE Q	c	35	57	16.11	-4397.32	28.44	81.33	0.50	14.42	125.84	23.78	1137.50	440.90	0.13	0.03
489	12.41	3	SLE F	c	35	57	16.11	-4529.31	28.44	81.33	0.50	14.42	125.84	23.78	1137.50	454.13	0.13	0.03
520	12.81	4	SLE Q	d	36	57	20.00	-2890.44	28.44	81.33	0.50	14.42	125.84	23.78	1137.50	289.81	0.08	0.02
529	12.81	3	SLE F	d	36	57	20.00	-3019.39	28.44	81.33	0.50	14.42	125.84	23.78	1137.50	302.74	0.09	0.02
561	14.05	4	SLE Q	i	40	57	0.00	3324.61	27.50	24.89	0.50	16.67	103.48	3.93	114.23	466.27	0.14	0.02
570	14.05	3	SLE F	i	40	57	0.00	3577.09	27.50	24.89	0.50	16.67	103.48	3.93	114.23	501.68	0.15	0.03
591	15.66	4	SLE Q	a	44	57	16.11	-3065.45	28.87	87.14	0.50	13.83	136.45	19.98	1137.50	367.65	0.11	0.02
601	15.66	3	SLE F	a	44	57	16.11	-3223.22	28.87	87.14	0.50	13.83	136.45	19.98	1137.50	386.58	0.11	0.03
643	16.06	4	SLE Q	a	45	57	20.00	-2082.08	28.87	87.14	0.50	13.83	136.45	19.98	1137.50	249.71	0.07	0.02
660	16.06	3	SLE F	a	45	57	20.00	-2143.22	28.87	87.14	0.50	13.83	136.45	19.98	1137.50	257.05	0.07	0.02
707	18.01	4	SLE Q	c	45	57	215.00	-1348.69	28.43	206.00	0.50	15.83	266.56	11.44	1137.50	279.17	0.08	0.04
720	18.01	3	SLE F	c	45	57	215.00	-1440.01	28.43	206.00	0.50	15.83	266.56	11.44	1137.50	298.07	0.09	0.04
759	18.98	4	SLE Q	c	45	57	312.50	-3608.57	29.00	87.14	0.50	13.60	138.46	19.23	1137.50	453.06	0.13	0.03
773	18.98	3	SLE F	c	45	57	312.50	-3797.65	29.00	87.14	0.50	13.60	138.46	19.23	1137.50	476.80	0.14	0.03

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	0.72	0.52	c	ø8/10 2 br.	10.05	0.30	12021.20	1.90	24957.10	24957.10	24957.10	2.076
1 SLU	0.72	2.51	1.79	c	ø8/10 2 br.	10.05	0.30	5730.92	1.90	24957.10	24957.10	24957.10	4.355
1 SLU	2.51	3.03	0.52	a	ø8/10 2 br.	10.05	0.30	10198.40	1.90	24957.10	24957.10	24957.10	2.447
1 SLU	3.43	3.95	0.52	c	ø8/10 2 br.	10.05	0.30	11242.60	1.90	24957.10	24957.10	24957.10	2.220
1 SLU	3.95	5.74	1.79	h	ø8/10 2 br.	10.05	0.30	7029.59	1.90	24957.10	24957.10	24957.10	3.550
1 SLU	5.74	6.26	0.52	h	ø8/10 2 br.	10.05	0.30	11860.30	1.90	24957.10	24957.10	24957.10	2.104
1 SLU	6.66	7.18	0.52	c	ø8/10 2 br.	10.05	0.30	8732.15	1.90	24957.10	24957.10	24957.10	2.858
1 SLU	7.18	8.64	1.46	c	ø8/10 2 br.	10.05	0.30	3740.94	1.90	24957.10	24957.10	24957.10	6.671
1 SLU	8.64	9.16	0.52	a	ø8/10 2 br.	10.05	0.30	8561.46	1.90	24957.10	24957.10	24957.10	2.915
1 SLU	9.56	10.08	0.52	h	ø8/10 2 br.	10.05	0.30	11810.30	1.90	24957.10	24957.10	24957.10	2.113
1 SLU	10.08	11.89	1.81	h	ø8/10 2 br.	10.05	0.30	6927.24	1.90	24957.10	24957.10	24957.10	3.603
1 SLU	11.89	12.41	0.52	c	ø8/10 2 br.	10.05	0.30	10831.10	1.90	24957.10	24957.10	24957.10	2.304
1 SLU	12.81	13.33	0.52	a	ø8/10 2 br.	10.05	0.30	10074.00	1.90	24957.10	24957.10	24957.10	2.477
1 SLU	13.33	15.14	1.81	e	ø8/10 2 br.	10.05	0.30	5143.46	1.90	24957.10	24957.10	24957.10	4.852
1 SLU	15.14	15.66	0.52	b	ø8/10 2 br.	10.05	0.30	11046.10	1.90	24957.10	24957.10	24957.10	2.259
1 SLU	16.06	16.58	0.52	e	ø8/10 2 br.	10.05	0.30	7544.21	1.90	24957.10	24957.10	24957.10	3.308
1 SLU	16.58	18.47	1.89	c	ø8/10 2 br.	10.05	0.30	6662.30	1.90	24957.10	24957.10	24957.10	3.757
1 SLU	18.47	18.98	0.52	c	ø8/10 2 br.	10.05	0.30	9274.53	1.90	24957.10	24957.10	24957.10	2.691

Travata n. 3009

Nodi: 335 336 337 -7218 -7140 -7208 338 339 340 341

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>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
56Ldx	100.00	30.00	24.00	26.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
58Ldx	60.00	30.00	24.00	26.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CCTCC	El	X <cm>	Afe S <cm>	Afe I <cm>	AfeP S <cm>	AfeP I <cm>	My <daNm>	MRdy <daNm>	Sic.
0.20	1	SLU	1	20.00	14.51	14.51	14.51	-3042.17	-22609.20	7.432
1.14	1	SLU	1	114.33	11.44	14.51	11.44	1741.39	23218.80	13.334
3.03	1	SLU	1	303.00	17.59	14.51	17.59	-3139.59	-27325.20	8.703
3.43	1	SLU	2	20.00	17.59	14.51	17.59	-4450.15	-27325.20	6.140

Relazione di calcolo

4.69	1	SLU	2	145.78	11.44	14.51	11.44	14.51	2292.41	23218.80	10.129
6.26	1	SLU	2	303.00	20.55	29.97	20.55	29.97	-1040.43	-31913.00	30.673
9.56	1	SLU	7	20.00	29.97	30.98	29.97	30.98	-1156.75	-46405.20	40.117
10.51	1	SLU	7	115.00	11.44	15.52	11.44	15.52	2265.85	24770.70	10.932
12.41	1	SLU	7	305.00	16.87	17.88	16.87	17.88	-4498.21	-26239.00	5.833
12.81	1	SLU	8	20.00	16.87	17.88	16.87	17.88	-3334.82	-26239.00	7.868
13.76	1	SLU	8	115.00	11.44	13.79	11.44	13.79	1569.59	22103.10	14.082
15.66	1	SLU	8	305.00	16.09	17.62	16.09	17.62	-3291.69	-25031.20	7.604
16.06	1	SLU	9	20.00	16.09	17.62	16.09	17.62	-3170.93	-25031.20	7.894
17.04	1	SLU	9	117.50	11.44	15.27	11.44	15.27	2144.53	24382.70	11.370
18.98	1	SLU	9	312.50	16.02	15.27	16.02	15.27	-2917.33	-24925.60	8.544

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/cm ² >	σ_e inf <daN/cm ² >	σ_c <daN/cm ² >
0.20	2	SLE R	1	20.00	14.51	14.51	-2150.00	353.46	-146.27	12.46
0.20	4	SLE Q	1	20.00	14.51	14.51	-1853.91	304.79	-126.13	10.75
1.14	2	SLE R	1	114.33	11.44	14.51	1229.81	-43.61	198.02	4.22
1.14	4	SLE Q	1	114.33	11.44	14.51	1098.71	-38.96	176.91	3.77
3.03	2	SLE R	1	303.00	17.59	14.51	-2216.88	302.94	-146.42	12.20
3.03	4	SLE Q	1	303.00	17.59	14.51	-2027.85	277.11	-133.94	11.16
3.43	2	SLE R	2	20.00	17.59	14.51	-3146.26	429.95	-207.81	17.31
3.43	4	SLE Q	2	20.00	17.59	14.51	-2724.97	372.38	-179.98	15.00
4.69	2	SLE R	2	145.78	11.44	14.51	1621.02	-57.49	261.01	5.56
4.69	4	SLE Q	2	145.78	11.44	14.51	1418.26	-50.29	228.36	4.87
6.26	2	SLE R	2	303.00	20.55	29.97	-730.19	84.09	-34.28	2.93
6.26	4	SLE Q	2	303.00	20.55	29.97	-741.78	85.43	-34.82	2.97
9.56	2	SLE R	7	20.00	29.97	30.98	-810.38	64.67	-35.82	2.93
9.56	4	SLE Q	7	20.00	29.97	30.98	-806.96	64.39	-35.67	2.92
10.51	2	SLE R	7	115.00	11.44	15.52	1602.59	-56.17	241.86	5.36
10.51	4	SLE Q	7	115.00	11.44	15.52	1407.70	-49.34	212.45	4.71
12.41	2	SLE R	7	305.00	16.87	17.88	-3182.25	450.01	-195.47	16.53
12.41	4	SLE Q	7	305.00	16.87	17.88	-2754.09	389.46	-169.17	14.31
12.81	2	SLE R	8	20.00	16.87	17.88	-2357.80	333.42	-144.83	12.25
12.81	4	SLE Q	8	20.00	16.87	17.88	-2115.82	299.20	-129.97	10.99
13.76	2	SLE R	8	115.00	11.44	13.79	-647.22	134.09	-46.51	4.08
13.76	4	SLE R	8	115.00	11.44	13.79	1108.04	-39.63	187.45	3.87
13.76	4	SLE Q	8	115.00	11.44	13.79	-587.32	121.68	-42.20	3.70
15.66	2	SLE R	8	305.00	16.09	17.62	-2324.02	344.25	-144.56	12.29
15.66	4	SLE Q	8	305.00	16.09	17.62	-2048.07	303.37	-127.39	10.83
16.06	2	SLE R	9	20.00	16.09	17.62	-2248.69	333.09	-139.87	11.89
16.06	4	SLE Q	9	20.00	16.09	17.62	-2024.05	299.81	-125.90	10.70
17.04	2	SLE R	9	117.50	11.44	15.27	1514.51	-53.24	232.21	5.10
17.04	4	SLE Q	9	117.50	11.44	15.27	1348.29	-47.40	206.72	4.54
18.98	2	SLE R	9	312.50	16.02	15.27	-2052.48	306.39	-135.04	11.40
18.98	4	SLE Q	9	312.50	16.02	15.27	-1805.83	269.57	-118.81	10.03

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	0.20	4	SLE Q	1	56	20.00	-1853.91	28.33	114.50	0.50	15.40	149.51	14.51	875.00	304.79	0.09	0.02
4	0.20	3	SLE F	1	56	20.00	-1938.34	28.33	114.50	0.50	15.40	149.51	14.51	875.00	318.67	0.09	0.02
9	1.14	4	SLE Q	1	56	114.33	1098.71	26.50	28.00	0.50	17.53	95.31	4.68	112.99	176.91	0.05	0.01
11	1.14	3	SLE F	1	56	114.33	1136.11	26.50	28.00	0.50	17.53	95.31	4.68	112.99	182.93	0.05	0.01
15	3.03	4	SLE Q	1	56	303.00	-2027.85	28.27	91.60	0.50	15.14	131.82	17.59	875.00	277.11	0.08	0.02
16	3.03	3	SLE F	1	56	303.00	-2082.02	28.27	91.60	0.50	15.14	131.82	17.59	875.00	284.52	0.08	0.02
19	3.43	4	SLE Q	2	56	20.00	-2724.97	28.27	91.60	0.50	15.14	131.82	17.59	875.00	372.38	0.11	0.02
20	3.43	3	SLE F	2	56	20.00	-2845.34	28.27	91.60	0.50	15.14	131.82	17.59	875.00	388.83	0.11	0.03
23	4.69	4	SLE Q	2	56	145.78	1418.26	26.50	28.00	0.50	17.53	95.31	4.68	112.99	228.36	0.07	0.01
24	4.69	3	SLE F	2	56	145.78	1475.95	26.50	28.00	0.50	17.53	95.31	4.68	112.99	237.65	0.07	0.01
29	6.26	4	SLE Q	2	56	303.00	-741.78	28.00	83.27	0.50	15.57	122.31	20.55	875.00	85.43	0.02	0.01
31	6.26	3	SLE F	2	56	303.00	-738.62	28.00	83.27	0.50	15.57	122.31	20.55	875.00	85.06	0.02	0.01
38	9.56	4	SLE Q	7	56	20.00	-806.96	27.40	65.43	0.50	16.74	103.66	29.97	875.00	64.39	0.02	0.00
40	9.56	3	SLE F	7	56	20.00	-808.01	27.40	65.43	0.50	16.74	103.66	29.97	875.00	64.48	0.02	0.00
43	10.51	4	SLE Q	7	56	115.00	1407.70	29.00	22.40	0.50	14.67	97.61	4.15	111.99	212.45	0.06	0.01
44	10.51	3	SLE F	7	56	115.00	1463.17	29.00	22.40	0.50	14.67	97.61	4.15	111.99	220.82	0.06	0.01
47	12.41	4	SLE Q	7	56	305.00	-2754.09	28.75	83.27	0.50	14.32	131.77	16.87	875.00	389.46	0.11	0.03
48	12.41	3	SLE F	7	56	305.00	-2876.49	28.75	83.27	0.50	14.32	131.77	16.87	875.00	406.77	0.12	0.03
51	12.81	4	SLE Q	8	56	20.00	-2115.82	28.75	83.27	0.50	14.32	131.77	16.87	875.00	299.20	0.09	0.02
52	12.81	3	SLE F	8	56	20.00	-2184.92	28.75	83.27	0.50	14.32	131.77	16.87	875.00	308.98	0.09	0.02
58	13.76	4	SLE Q	8	56	115.00	-587.32	28.43	154.00	0.50	15.83	177.95	11.44	875.00	121.68	0.04	0.01
60	13.76	3	SLE F	8	56	115.00	-604.41	28.43	154.00	0.50	15.83	177.95	11.44	875.00	125.22	0.04	0.01
63	15.66	4	SLE Q	8	56	305.00	-2048.07	29.43	70.46	0.50	13.13	130.27	16.09	875.00	303.37	0.09	0.02
64	15.66	3	SLE F	8	56	305.00	-2126.97	29.43	70.46	0.50	13.13	130.27	16.09	875.00	315.06	0.09	0.02
67	16.06	4	SLE Q	9	56	20.00	-2024.05	29.43	70.46	0.50	13.13	130.27	16.09	875.00	299.81	0.09	0.02
68	16.06	3	SLE F	9	56	20.00	-2088.55	29.43	70.46	0.50	13.13	130.27	16.09	875.00	309.37	0.09	0.02
73	17.04	4	SLE Q	9	56	117.50	1348.29	29.00	20.36	0.50	14.67	97.69	4.15	112.23	206.72	0.06	0.01
75	17.04	3	SLE F	9	56	117.50	1395.76	29.00	20.36	0.50	14.67	97.69	4.15	112.23	214.00	0.06	0.01

Relazione di calcolo

79	18.98	4	SLE Q	9	56	312.50	-1805.83	29.67	65.43	0.50	12.75	128.96	16.02	875.00	269.57	0.08	0.02
80	18.98	3	SLE F	9	56	312.50	-1876.01	29.67	65.43	0.50	12.75	128.96	16.02	875.00	280.05	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	0.72	0.52	ø8/10 2 br.	10.05	0.30	6571.70	1.90	24957.10	24957.10	24957.10	3.798
1 SLU	0.72	2.51	1.79	ø8/10 2 br.	10.05	0.30	4216.97	1.90	24957.10	24957.10	24957.10	5.918
1 SLU	2.51	3.03	0.52	ø8/10 2 br.	10.05	0.30	6640.55	1.90	24957.10	24957.10	24957.10	3.758
1 SLU	3.43	3.95	0.52	ø8/10 2 br.	10.05	0.30	7810.97	1.90	24957.10	24957.10	24957.10	3.195
1 SLU	3.95	5.74	1.79	ø8/10 2 br.	10.05	0.30	5387.40	1.90	24957.10	24957.10	24957.10	4.633
1 SLU	5.74	6.26	0.52	ø8/10 2 br.	10.05	0.30	5401.28	1.90	24957.10	24957.10	24957.10	4.621
1 SLU	9.56	10.08	0.52	ø8/10 2 br.	10.05	0.30	5480.37	1.90	24957.10	24957.10	24957.10	4.554
1 SLU	10.08	11.89	1.81	ø8/10 2 br.	10.05	0.30	5401.68	1.90	24957.10	24957.10	24957.10	4.620
1 SLU	11.89	12.41	0.52	ø8/10 2 br.	10.05	0.30	7825.26	1.90	24957.10	24957.10	24957.10	3.189
1 SLU	12.81	13.33	0.52	ø8/10 2 br.	10.05	0.30	6667.94	1.90	24957.10	24957.10	24957.10	3.743
1 SLU	13.33	15.14	1.81	ø8/10 2 br.	10.05	0.30	4244.37	1.90	24957.10	24957.10	24957.10	5.880
1 SLU	15.14	15.66	0.52	ø8/10 2 br.	10.05	0.30	6637.68	1.90	24957.10	24957.10	24957.10	3.760
1 SLU	16.06	16.58	0.52	ø8/10 2 br.	10.05	0.30	6914.59	1.90	24957.10	24957.10	24957.10	3.609
1 SLU	16.58	18.47	1.89	ø8/10 2 br.	10.05	0.30	4491.02	1.90	24957.10	24957.10	24957.10	5.557
1 SLU	18.47	18.98	0.52	ø8/10 2 br.	10.05	0.30	6741.19	1.90	24957.10	24957.10	24957.10	3.702

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.
0.001	SLU	1	0.00	3.08	3.08	3.08	3.08	3.08	-198.10	-1506.47	7.604
1.271	SLU	4	18.12	3.08	3.08	3.08	3.08	3.08	198.78	1506.47	7.578
2.901	SLU	8	36.25	3.08	3.08	3.08	3.08	3.08	-198.10	-1506.47	7.604

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	-150.09	-150.09	398.06	-94.04	16.71
0.004	SLE Q	1	0.00	3.08	3.08	-141.58	-141.58	375.50	-88.71	15.76
1.272	SLE R	4	18.12	3.08	3.08	149.45	149.45	-93.64	396.37	16.64
1.274	SLE Q	4	18.12	3.08	3.08	136.58	136.58	-85.58	362.23	15.20
2.902	SLE R	8	36.25	3.08	3.08	-150.08	-150.08	398.02	-94.03	16.71
2.904	SLE Q	8	36.25	3.08	3.08	-141.63	-141.63	375.63	-88.74	15.77

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 <cmq>	A _{c off} <cmq>	σ _s <daN/cm ² >	ε _{sm}	Wk <mm>
3	0.004	SLE Q	1	19	0.00	-141.58	28.00	130.00	0.50	14.00	93.58	3.08	82.65	375.50	0.11	0.02	
4	0.003	SLE F	1	19	0.00	-144.01	28.00	130.00	0.50	14.00	93.58	3.08	82.65	381.95	0.11	0.02	
7	1.274	SLE Q	4	19	18.12	136.58	28.00	130.00	0.50	14.00	93.58	3.08	82.65	362.23	0.11	0.02	
8	1.273	SLE F	4	19	18.12	140.26	28.00	130.00	0.50	14.00	93.58	3.08	82.65	371.98	0.11	0.02	
11	2.904	SLE Q	8	19	36.25	-141.63	28.00	130.00	0.50	14.00	93.58	3.08	82.65	375.63	0.11	0.02	
12	2.903	SLE F	8	19	36.25	-144.05	28.00	130.00	0.50	14.00	93.58	3.08	82.65	382.03	0.11	0.02	

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.04	0.22	0.18	ø8/ 8 2 br.	12.57	0.20	828.25	1.86	9516.20	9516.20	9516.20	11.489
1 SLU	0.22	2.68	2.47	ø8/ 8 2 br.	12.57	0.20	456.19	1.86	9516.20	9516.20	9516.20	20.860
1 SLU	2.68	2.86	0.18	ø8/ 8 2 br.	12.57	0.20	828.07	1.86	9516.20	9516.20	9516.20	11.492

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	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	-57.99	-1506.47	25.976
1.44	1	SLU	5	0.00	3.08	3.08	3.08	3.08	21.74	1506.47	69.280
3.25	1	SLU	9	36.11	3.08	3.08	3.08	3.08	-51.20	-1506.47	29.422

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	-41.22	109.33	-25.83	4.59
0.00	4	SLE Q	1	0.00	3.08	3.08	-31.96	84.77	-20.03	3.56
1.44	2	SLE R	5	0.00	3.08	3.08	15.10	-9.46	40.04	1.68
1.44	4	SLE Q	5	0.00	3.08	3.08	13.32	-8.34	35.32	1.48
3.25	2	SLE R	9	36.11	3.08	3.08	-36.77	97.52	-23.04	4.09
3.25	4	SLE Q	9	36.11	3.08	3.08	-30.93	82.03	-19.38	3.44

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	-31.96	28.00	134.00	0.50	14.00	93.58	3.08	82.65	84.77	0.02	0.00
4	0.00	3	SLE F	1	19	0.00	-34.61	28.00	134.00	0.50	14.00	93.58	3.08	82.65	91.79	0.03	0.00
7	1.44	4	SLE Q	5	19	0.00	13.32	28.00	134.00	0.50	14.00	93.58	3.08	82.65	35.32	0.01	0.00
8	1.44	3	SLE F	5	19	0.00	13.81	28.00	134.00	0.50	14.00	93.58	3.08	82.65	36.62	0.01	0.00
14	3.25	4	SLE Q	9	19	36.11	-30.93	28.00	134.00	0.50	14.00	93.58	3.08	82.65	82.03	0.02	0.00
16	3.25	3	SLE F	9	19	36.11	-32.60	28.00	134.00	0.50	14.00	93.58	3.08	82.65	86.45	0.03	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	0.04	0.22	0.18	ø6/ 8 2 br.	7.07	0.20	235.44	2.50	7185.75	7873.13	7185.75	30.521
1 SLU	0.22	3.03	2.82	ø6/ 8 2 br.	7.07	0.20	377.26	2.50	7185.75	7873.13	7185.75	19.047
1 SLU	3.03	3.21	0.18	ø6/ 8 2 br.	7.07	0.20	377.26	2.50	7185.75	7873.13	7185.75	19.047

Travata n. 3060

Nodi: 398 254 -7169 -253 -7172 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 <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
3.17	1	SLU	5	-6.25	6.09	6.03	6.09	6.03	-7282.10	-12917.10	1.774

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>
3.17	2	SLE R	5	-6.25	6.09	6.03	-5111.49	1489.60	-503.62	41.59
3.17	4	SLE Q	5	-6.25	6.09	6.03	-3948.57	1150.70	-389.04	32.13

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	3.17	4	SLE Q	5	16	-6.25	-3948.57	30.25	13.71	0.50	10.21	83.95	6.09	140.00	1150.70	0.40	0.06
4	3.17	3	SLE F	5	16	-6.25	-4280.49	30.25	13.71	0.50	10.21	83.95	6.09	140.00	1247.43	0.36	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLU	-0.18	1.21	1.76	ø8/20 2 br.	5.03	0.16	4362.87	2.50	21672.90	26714.30	21672.90	4.968
1 SLU	1.21	1.72	0.65	ø8/20 2 br.	5.03	0.16	2192.60	2.50	21672.90	26714.30	21672.90	9.885
1 SLU	1.92	3.17	1.25	ø8/20 2 br.	5.03	0.16	4920.55	2.50	21672.90	26714.30	21672.90	4.405

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>	b <cm>	H <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>
56	Ldx	100.00	30.00	24.00	26.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
58	Ldx	60.00	30.00	24.00	26.00	3.50	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	In	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.20	1	SLU	a	1	20.00	14.51	14.51	14.51	14.51	-3195.89	-22609.20	7.074
1.14	1	SLU	h	1	114.33	11.44	14.51	11.44	14.51	3259.82	23218.80	7.123
3.03	1	SLU	b	1	303.00	17.59	14.51	17.59	14.51	-2812.97	-27325.20	9.714
3.43	1	SLU	a	2	20.00	17.59	14.51	17.59	14.51	-3814.73	-27325.20	7.163
4.69	1	SLU	h	2	145.78	11.44	14.51	11.44	14.51	3164.26	23218.80	7.338
6.26	1	SLU	a	2	303.00	29.97	29.97	29.97	29.97	-1866.97	-46399.10	24.853
6.66	1	SLU	g	3	20.00	15.46	27.96	15.46	27.96	-1583.41	-24074.20	15.204
7.60	1	SLU	h	3	113.75	15.46	15.46	15.46	15.46	-1121.07	-24060.00	21.462
9.16	1	SLU	g	3	270.00	15.46	29.97	15.46	29.97	-1639.70	-24074.70	14.682
9.56	1	SLU	a	4	20.00	20.55	30.98	20.55	30.98	-1616.64	-31913.50	19.741
10.51	1	SLU	h	4	115.00	11.44	15.52	11.44	15.52	2824.07	24770.70	8.771
12.41	1	SLU	c	4	305.00	16.87	17.88	16.87	17.88	-4128.60	-26239.00	6.355
12.81	1	SLU	b	5	20.00	16.87	17.88	16.87	17.88	-3214.99	-26239.00	8.161
13.76	1	SLU	g	5	115.00	11.44	13.79	11.44	13.79	2128.00	22103.10	10.387
15.66	1	SLU	b	5	305.00	16.09	17.62	16.09	17.62	-3345.59	-25031.20	7.482
16.06	1	SLU	b	6	20.00	16.09	17.62	16.09	17.62	-3072.83	-25031.20	8.146
17.04	1	SLU	h	6	117.50	11.44	15.27	11.44	15.27	3941.43	24382.70	6.186
18.98	1	SLU	a	6	312.50	16.02	15.27	16.02	15.27	-2637.79	-24925.60	9.449

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	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>	
0.20	2	SLE	R	a	1	20.00	14.51	14.51	-2258.86	371.36	-153.68	13.09
0.20	4	SLE	Q	a	1	20.00	14.51	14.51	-1917.32	315.21	-130.44	11.11
1.14	2	SLE	R	h	1	114.33	11.44	14.51	2307.65	-81.83	371.56	7.92
1.14	4	SLE	Q	h	1	114.33	11.44	14.51	1919.69	-68.08	309.10	6.59
3.03	2	SLE	R	b	1	303.00	17.59	14.51	-1982.32	270.89	-130.93	10.91
3.03	4	SLE	Q	b	1	303.00	17.59	14.51	-1848.41	252.59	-122.08	10.17
3.43	2	SLE	R	a	2	20.00	17.59	14.51	-2693.98	368.14	-177.93	14.83
3.43	4	SLE	Q	a	2	20.00	17.59	14.51	-2299.12	314.18	-151.85	12.65
4.69	2	SLE	R	h	2	145.78	11.44	14.51	2234.10	-79.23	359.72	7.66
4.69	4	SLE	Q	g	2	145.78	11.44	14.51	1873.65	-66.44	301.68	6.43
6.26	2	SLE	R	a	2	303.00	29.97	29.97	-1319.97	105.46	-59.36	4.85
6.26	4	SLE	Q	a	2	303.00	29.97	29.97	-1291.28	103.16	-58.07	4.75
6.66	2	SLE	R	g	3	20.00	15.46	27.96	-1117.20	170.04	-56.18	4.97
6.66	4	SLE	Q	g	3	20.00	15.46	27.96	-1105.94	168.33	-55.61	4.92
7.60	2	SLE	R	h	3	113.75	15.46	15.46	-783.43	121.02	-51.59	4.38
7.60	4	SLE	Q	h	3	113.75	15.46	15.46	-722.22	111.57	-47.56	4.03
9.16	2	SLE	R	g	3	270.00	15.46	29.97	-1165.35	177.12	-56.40	5.03
9.16	4	SLE	Q	g	3	270.00	15.46	29.97	-1137.25	172.84	-55.04	4.91
9.56	2	SLE	R	a	4	20.00	20.55	30.98	-1141.81	131.38	-52.64	4.51
9.56	4	SLE	Q	a	4	20.00	20.55	30.98	-1144.40	131.68	-52.76	4.52
10.51	2	SLE	R	h	4	115.00	11.44	15.52	1987.61	-69.67	299.97	6.65
10.51	4	SLE	Q	e	4	115.00	11.44	15.52	1691.33	-59.28	255.26	5.66
12.41	2	SLE	R	c	4	305.00	16.87	17.88	-2920.03	412.93	-179.37	15.17
12.41	4	SLE	Q	a	4	305.00	16.87	17.88	-2444.76	345.72	-150.17	12.70
12.81	2	SLE	R	b	5	20.00	16.87	17.88	-2275.31	321.76	-139.76	11.82
12.81	4	SLE	Q	b	5	20.00	16.87	17.88	-2016.43	285.15	-123.86	10.48
13.76	2	SLE	R	g	5	115.00	11.44	13.79	1491.75	-53.36	252.36	5.22
13.76	4	SLE	Q	g	5	115.00	11.44	13.79	1346.26	-48.15	227.75	4.71
15.66	2	SLE	R	b	5	305.00	16.09	17.62	-2365.20	350.35	-147.12	12.51
15.66	4	SLE	Q	b	5	305.00	16.09	17.62	-2085.38	308.90	-129.71	11.03
16.06	2	SLE	R	b	6	20.00	16.09	17.62	-2191.71	324.65	-136.33	11.59
16.06	4	SLE	Q	b	6	20.00	16.09	17.62	-1980.81	293.41	-123.21	10.47
17.04	2	SLE	R	h	6	117.50	11.44	15.27	2781.25	-97.77	426.42	9.36
17.04	4	SLE	Q	g	6	117.50	11.44	15.27	2304.12	-81.00	353.27	7.76
18.98	2	SLE	R	a	6	312.50	16.02	15.27	-1852.79	276.58	-121.90	10.29
18.98	4	SLE	Q	a	6	312.50	16.02	15.27	-1622.83	242.25	-106.77	9.01

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/cmqr>	ε _{sm}	Wk <mm>	
29	0.20	4	SLE	Q	a	1	56	20.00	-1917.32	28.33	114.50	0.50	15.40	149.51	14.51	875.00	315.21	0.09	0.02
44	0.20	3	SLE	F	a	1	56	20.00	-2014.58	28.33	114.50	0.50	15.40	149.51	14.51	875.00	331.20	0.10	0.02
95	1.14	4	SLE	Q	h	1	56	114.33	1919.69	26.50	28.00	0.50	17.53	95.31	4.68	112.99	309.10	0.09	0.01
106	1.14	3	SLE	F	h	1	56	114.33	2016.94	26.50	28.00	0.50	17.53	95.31	4.68	112.99	324.75	0.09	0.02
141	3.03	4	SLE	Q	b	1	56	303.00	-1848.41	28.27	91.60	0.50	15.14	131.82	17.59	875.00	252.59	0.07	0.02
157	3.03	3	SLE	F	b	1	56	303.00	-1887.35	28.27	91.60	0.50	15.14	131.82	17.59	875.00	257.92	0.08	0.02
195	3.43	4	SLE	Q	a	2	56	20.00	-2299.12	28.27	91.60	0.50	15.14	131.82	17.59	875.00	314.18	0.09	0.02

Relazione di calcolo

207	3.43	3	SLE F	a	2	56	20.00	-2412.19	28.27	91.60	0.50	15.14	131.82	17.59	875.00	329.64	0.10	0.02
241	4.69	4	SLE Q	g	2	56	145.78	1873.65	26.50	28.00	0.50	17.53	95.31	4.68	112.99	301.68	0.09	0.01
249	4.69	3	SLE F	g	2	56	145.78	1970.91	26.50	28.00	0.50	17.53	95.31	4.68	112.99	317.34	0.09	0.01
283	6.26	4	SLE Q	a	2	56	303.00	-1291.28	27.40	65.43	0.50	16.74	103.66	29.97	875.00	103.16	0.03	0.01
299	6.26	3	SLE F	a	2	56	303.00	-1299.24	27.40	65.43	0.50	16.74	103.66	29.97	875.00	103.80	0.03	0.01
337	6.66	4	SLE Q	g	3	58	20.00	-1105.94	26.00	103.20	0.50	18.22	113.89	15.46	525.00	168.33	0.05	0.01
345	6.66	3	SLE F	g	3	58	20.00	-1105.96	26.00	103.20	0.50	18.22	113.89	15.46	525.00	168.33	0.05	0.01
373	7.60	4	SLE Q	h	3	58	113.75	-722.22	26.00	104.80	0.50	18.22	113.89	15.46	525.00	111.57	0.03	0.01
382	7.60	3	SLE F	h	3	58	113.75	-732.87	26.00	104.80	0.50	18.22	113.89	15.46	525.00	113.21	0.03	0.01
405	9.16	4	SLE Q	g	3	58	270.00	-1137.25	26.00	103.20	0.50	18.22	113.89	15.46	525.00	172.84	0.05	0.01
413	9.16	3	SLE F	g	3	58	270.00	-1145.51	26.00	103.20	0.50	18.22	113.89	15.46	525.00	174.10	0.05	0.01
448	9.56	4	SLE Q	a	4	56	20.00	-1144.40	28.00	84.36	0.50	15.57	122.31	20.55	875.00	131.68	0.04	0.01
464	9.56	3	SLE F	a	4	56	20.00	-1143.36	28.00	84.36	0.50	15.57	122.31	20.55	875.00	131.56	0.04	0.01
499	10.51	4	SLE Q	e	4	56	115.00	1691.33	29.00	22.40	0.50	14.67	97.61	4.15	111.99	255.26	0.07	0.01
507	10.51	3	SLE F	e	4	56	115.00	1767.42	29.00	22.40	0.50	14.67	97.61	4.15	111.99	266.74	0.08	0.01
527	12.41	4	SLE Q	a	4	56	305.00	-2444.76	28.75	83.27	0.50	14.32	131.77	16.87	875.00	345.72	0.10	0.02
538	12.41	3	SLE F	c	4	56	305.00	-2578.47	28.75	83.27	0.50	14.32	131.77	16.87	875.00	364.63	0.11	0.02
562	12.81	4	SLE Q	b	5	56	20.00	-2016.43	28.75	83.27	0.50	14.32	131.77	16.87	875.00	285.15	0.08	0.02
570	12.81	3	SLE F	b	5	56	20.00	-2090.50	28.75	83.27	0.50	14.32	131.77	16.87	875.00	295.62	0.09	0.02
621	13.76	4	SLE Q	g	5	56	115.00	1346.26	28.00	24.89	0.50	16.57	107.72	3.64	113.73	227.75	0.07	0.01
637	13.76	3	SLE F	g	5	56	115.00	1386.25	28.00	24.89	0.50	16.57	107.72	3.64	113.73	234.51	0.07	0.01
664	15.66	4	SLE Q	b	5	56	305.00	-2085.38	29.43	70.46	0.50	13.13	130.27	16.09	875.00	308.90	0.09	0.02
675	15.66	3	SLE F	b	5	56	305.00	-2165.54	29.43	70.46	0.50	13.13	130.27	16.09	875.00	320.77	0.09	0.02
720	16.06	4	SLE Q	b	6	56	20.00	-1980.81	29.43	70.46	0.50	13.13	130.27	16.09	875.00	293.41	0.09	0.02
736	16.06	3	SLE F	b	6	56	20.00	-2041.58	29.43	70.46	0.50	13.13	130.27	16.09	875.00	302.41	0.09	0.02
779	17.04	4	SLE Q	g	6	56	117.50	2304.12	29.00	20.36	0.50	14.67	97.69	4.15	112.23	353.27	0.10	0.02
791	17.04	3	SLE F	h	6	56	117.50	2416.15	29.00	20.36	0.50	14.67	97.69	4.15	112.23	370.44	0.11	0.02
824	18.98	4	SLE Q	a	6	56	312.50	-1622.83	29.67	65.43	0.50	12.75	128.96	16.02	875.00	242.25	0.07	0.02
840	18.98	3	SLE F	a	6	56	312.50	-1688.16	29.67	65.43	0.50	12.75	128.96	16.02	875.00	252.01	0.07	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	0.20	0.72	0.52	g	ø8/10 2 br.	10.05	0.30	7056.90	1.90	24957.10	24957.10	24957.10	3.537
1 SLU	0.72	2.51	1.79	g	ø8/10 2 br.	10.05	0.30	4633.32	1.90	24957.10	24957.10	24957.10	5.386
1 SLU	2.51	3.03	0.52	b	ø8/10 2 br.	10.05	0.30	6790.62	1.90	24957.10	24957.10	24957.10	3.675
1 SLU	3.43	3.95	0.52	b	ø8/10 2 br.	10.05	0.30	7499.95	1.90	24957.10	24957.10	24957.10	3.328
1 SLU	3.95	5.74	1.79	b	ø8/10 2 br.	10.05	0.30	5076.37	1.90	24957.10	24957.10	24957.10	4.916
1 SLU	5.74	6.26	0.52	g	ø8/10 2 br.	10.05	0.30	6025.29	1.90	24957.10	24957.10	24957.10	4.142
1 SLU	6.66	7.18	0.52	g	ø8/10 2 br.	10.05	0.30	1723.11	1.90	24957.10	24957.10	24957.10	14.484
1 SLU	7.18	8.64	1.46	d	ø8/10 2 br.	10.05	0.30	1123.24	1.90	24957.10	24957.10	24957.10	22.219
1 SLU	8.64	9.16	0.52	d	ø8/10 2 br.	10.05	0.30	1848.19	1.90	24957.10	24957.10	24957.10	13.504
1 SLU	9.56	10.08	0.52	g	ø8/10 2 br.	10.05	0.30	5868.79	1.90	24957.10	24957.10	24957.10	4.253
1 SLU	10.08	11.89	1.81	c	ø8/10 2 br.	10.05	0.30	5306.06	1.90	24957.10	24957.10	24957.10	4.704
1 SLU	11.89	12.41	0.52	c	ø8/10 2 br.	10.05	0.30	7729.64	1.90	24957.10	24957.10	24957.10	3.229
1 SLU	12.81	13.33	0.52	f	ø8/10 2 br.	10.05	0.30	6787.74	1.90	24957.10	24957.10	24957.10	3.677
1 SLU	13.33	15.14	1.81	f	ø8/10 2 br.	10.05	0.30	4364.16	1.90	24957.10	24957.10	24957.10	5.719
1 SLU	15.14	15.66	0.52	c	ø8/10 2 br.	10.05	0.30	6737.80	1.90	24957.10	24957.10	24957.10	3.704
1 SLU	16.06	16.58	0.52	b	ø8/10 2 br.	10.05	0.30	7618.86	1.90	24957.10	24957.10	24957.10	3.276
1 SLU	16.58	18.47	1.89	b	ø8/10 2 br.	10.05	0.30	5195.29	1.90	24957.10	24957.10	24957.10	4.804
1 SLU	18.47	18.98	0.52	g	ø8/10 2 br.	10.05	0.30	6853.98	1.90	24957.10	24957.10	24957.10	3.641

Verifiche e armature pilastri

Simbologia

Δ_{sm}	=Distanza media tra le fessure
$\Delta\%$	=Incremento percentuale sicurezza
Φ_{eq}	=Diametro equivalente delle barre
ϵ_{sm}	=Deformazione unitaria media dell'armatura (*1000)
ϵ_{0_i}	=Deformazione iniziale inferiore (*1000)
ϵ_{0_s}	=Deformazione iniziale superiore (*1000)
λ	=Snellezza massima
λ^*	=Snellezza limite
$\mu\Phi_y$	=Valore di progetto della duttilità di curvatura in dir. Y locale
$\mu\Phi_z$	=Valore di progetto della duttilità di curvatura in dir. Z locale
$\mu\Phi_d$	=Domanda 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_b	=Area complessiva dei ferri nell'area di calcestruzzo efficace
A_{fC}	=Area di ferro compressa
A_{fT}	=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)

Relazione di calcolo

Fcd	=	Resistenza di calcolo a compressione del calcestruzzo
Fcd (Tag)	=	Resistenza di calcolo a compressione del calcestruzzo per verifica a taglio
Fck	=	Resistenza caratteristica cilindrica a compressione del calcestruzzo
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
Fyk	=	Tensione caratteristica di snervamento dell'acciaio
Fym	=	Tensione media di snervamento
H	=	Altezza
K ₂	=	Coefficiente per distribuzione deformazioni
M'y _{dy,s}	=	Momento resistente massimo in campo sostanzialmente elastico (ridotto per stabilità) intorno all'asse Y
M'y _{dz,s}	=	Momento resistente massimo in campo sostanzialmente elastico (ridotto per stabilità) intorno all'asse Z
MR _{dy}	=	Momento resistente allo stato limite ultimo intorno all'asse Y
MR _{dy,s}	=	Momento resistente allo stato limite ultimo (ridotto per stabilità) intorno all'asse Y
MR _{dz}	=	Momento resistente allo stato limite ultimo intorno all'asse Z
MR _{dz,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
StCam.	=	Staffatura incamiciatura
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
		2I = Doppia I
		L = Sezione a L
		Ldx = L destra
		R = Rettangolare
		Rc = Rettangolare cava
		T = Sezione a T
VR _{cd,y}	=	Taglio ultimo lato calcestruzzo in dir. Y
VR _{cd,z}	=	Taglio ultimo lato calcestruzzo in dir. Z
VR _{sd,y}	=	Taglio ultimo lato armatura in dir. Y
VR _{sd,z}	=	Taglio ultimo lato armatura in dir. Z
VR _{sdCam,y}	=	Taglio ultimo lato armatura camicia in dir. Y
VR _{sdCam,z}	=	Taglio ultimo lato armatura camicia in dir. Z
Vr _{d,y}	=	Taglio resistente in dir. Y
Vr _{d,z}	=	Taglio resistente in dir. Z
Vs _{du,y}	=	Taglio agente in dir. Y
Vs _{du,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
esp.	=	Esponente per verifiche secondo [4.1.19]
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/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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cmq>	Fcd <daN/cmq>	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	70.00	249.00	141.10	4500.00	3913.04
60.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MR _{dy} <daNm>	MR _{dz} <daNm>	esp.	Sic.	Δ%
0.00	1(e)	SLU	1	1	0.00	-186211.00	831.24	3724.23	1433.01	3724.23	-784267.00	76849.20	64279.00	1.11	4.212	134.93
0.00	1(e)	SLU	1	1	0.00	-186211.00	831.24	3724.23	1433.01	3724.23	-784267.00	76849.20	64279.00	1.11	4.212	134.93
3.00	1(e)	SLU	1	1	300.00	-182116.00	-316.33	-3642.33	-2427.76	-3642.33	-784267.00	-76650.20	-64086.80	1.11	4.306	134.93
3.50	1(e)	SLU	2	10	0.00	-163031.00	505.81	3260.62	3760.95	3760.95	-657277.00	51736.20	57447.60	1.12	4.032	166.19
3.50	1(e)	SLU	2	10	0.00	-163031.00	505.81	3260.62	3760.95	3760.95	-646245.00	51671.20	55947.60	1.13	3.964	173.96
6.00	1(e)	SLU	2	10	250.00	-160350.00	-441.87	-3207.00	-2769.03	-3207.00	-646245.00	-51570.60	-55852.20	1.12	4.030	173.96
6.50	1(e)	SLU	3	10	0.00	-140868.00	162.06	2817.35	3870.72	3870.72	-646245.00	50783.30	55104.90	1.10	4.588	173.96
6.50	1(e)	SLU	3	10	0.00	-140868.00	162.06	2817.35	3870.72	3870.72	-646245.00	50783.30	55104.90	1.10	4.588	173.96
9.00	1(e)	SLU	3	10	250.00	-138186.00	-264.67	-2763.73	-2867.96	-2867.96	-646245.00	-50667.60	-54995.70	1.09	4.677	173.96
9.50	1(e)	SLU	4	10	0.00	-118147.00	407.45	2362.94	4688.36	4688.36	-646245.00	49450.50	53866.40	1.07	5.470	173.96
9.50	1(e)	SLU	4	10	0.00	-118147.00	407.45	2362.94	4688.36	4688.36	-646245.00	49450.50	53866.40	1.07	5.470	173.96
12.00	1(e)	SLU	4	10	250.00	-115466.00	-736.97	-2309.32	-4140.60	-4140.60	-646245.00	-49221.30	-53649.70	1.07	5.597	173.96
12.50	1(e)	SLU	5	10	0.00	-95568.40	281.12	1911.37	1870.65	1911.37	-235892.00	12877.30	13230.60	1.25	2.468	---
12.50	1(e)	SLU	5	10	0.00	-95568.40	281.12	1911.37	1870.65	1911.37	-235892.00	12877.30	13230.60	1.25	2.468	---

Relazione di calcolo

15.00	1(e)	SLU	5	10	250.00	-94430.90	-226.59	-1888.62	-1997.66	-1997.66	-235892.00	-12885.80	-13218.60	1.25	2.498	---
15.50	1(e)	SLU	6	7	0.00	-75919.10	185.33	1518.38	1527.82	1527.82	-185194.00	10510.30	7735.45	1.26	2.439	---
15.50	1(e)	SLU	6	7	0.00	-75919.10	185.33	1518.38	1527.82	1527.82	-174161.00	9141.10	7640.72	1.28	2.294	---
18.00	1(e)	SLU	6	7	250.00	-75065.90	-96.14	-1501.32	-1275.39	-1501.32	-174161.00	-9174.54	-7666.75	1.28	2.320	---
18.50	1(e)	SLU	7	7	0.00	-56450.20	38.74	1129.00	1855.66	1855.66	-174161.00	8956.38	7532.34	1.19	3.085	---
18.50	1(e)	SLU	7	7	0.00	-56450.20	38.74	1129.00	1855.66	1855.66	-174161.00	8956.38	7532.34	1.19	3.085	---
21.00	1(e)	SLU	7	7	250.00	-55597.10	13.20	1111.94	-1431.00	-1431.00	-174161.00	8920.40	-7500.51	1.18	3.133	---
21.50	1(e)	SLU	8	7	0.00	-36563.00	6.27	731.26	1962.00	1962.00	-36564.00	7663.44	6416.91	1.09	2.847	---
21.50	1(e)	SLU	8	7	0.00	-36563.00	6.27	731.26	1962.00	1962.00	-36564.00	7663.44	6416.91	1.09	2.847	---
24.00	1(e)	SLU	8	7	250.00	-35709.90	-59.58	-714.20	-1492.62	-1492.62	-35710.80	-7587.42	-6347.01	1.09	3.525	---
24.50	1	SLU	9	7	0.00	-16424.90	-579.21	-579.21	2214.69	2214.69	-16429.10	-5406.55	4524.57	1.00	1.676	---
24.50	1	SLU	9	7	0.00	-16424.90	-579.21	-579.21	2214.69	2214.69	-16429.10	-5406.55	4524.57	1.00	1.676	---
27.00	1	SLU	9	7	250.00	-15571.80	964.25	964.25	-1802.94	-1802.94	-15573.70	5298.17	-4435.48	1.00	1.699	---

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 _r <daN/cmq>
0.00	2	SLE R	1	1	0.00	-133549.00	1023.99	572.22	0.00	50.01	29.91	441.91
0.00	4	SLE Q	1	1	0.00	-118514.00	842.02	677.71	0.00	50.01	26.69	394.13
0.00	2	SLE R	1	1	0.00	-133549.00	1023.99	572.22	0.00	50.01	29.91	441.91
0.00	4	SLE Q	1	1	0.00	-118514.00	842.02	677.71	0.00	50.01	26.69	394.13
3.00	2	SLE R	1	1	300.00	-130399.00	-1734.30	-182.72	0.00	50.01	30.01	441.49
3.00	4	SLE Q	1	1	300.00	-115364.00	-1435.39	-501.43	0.00	50.01	26.92	395.37
3.50	2	SLE R	2	10	0.00	-116800.00	2691.37	305.83	0.00	50.01	35.97	522.29
3.50	4	SLE Q	2	10	0.00	-103305.00	2220.93	627.94	0.00	50.01	32.37	468.72
3.50	2	SLE R	2	10	0.00	-116800.00	2691.37	305.83	0.00	46.94	36.36	527.98
3.50	4	SLE Q	2	10	0.00	-103305.00	2220.93	627.94	0.00	46.94	32.71	473.70
6.00	2	SLE R	2	10	250.00	-114738.00	-1984.28	-269.43	0.00	46.94	34.07	497.91
6.00	4	SLE Q	2	10	250.00	-101243.00	-1629.19	-528.51	0.00	46.94	30.53	445.06
6.50	2	SLE R	3	10	0.00	-100862.00	2773.31	60.19	0.00	46.94	31.94	462.82
6.50	4	SLE Q	3	10	0.00	-88984.80	2281.24	441.10	0.00	46.94	28.79	415.85
6.50	2	SLE R	3	10	0.00	-100862.00	2773.31	60.19	0.00	46.94	31.94	462.82
6.50	4	SLE Q	3	10	0.00	-88984.80	2281.24	441.10	0.00	46.94	28.79	415.85
9.00	2	SLE R	3	10	250.00	-98799.90	-2058.22	-146.15	0.00	46.94	29.95	436.45
9.00	4	SLE Q	3	10	250.00	-86922.30	-1686.00	-409.94	0.00	46.94	26.78	389.30
9.50	2	SLE R	4	10	0.00	-84524.90	3364.04	219.68	0.00	46.94	29.67	424.43
9.50	4	SLE Q	4	10	0.00	-74319.80	2762.29	652.13	0.00	46.94	26.82	382.10
9.50	2	SLE R	4	10	0.00	-84524.90	3364.04	219.68	0.00	46.94	29.67	424.43
9.50	4	SLE Q	4	10	0.00	-74319.80	2762.29	652.13	0.00	46.94	26.82	382.10
12.00	2	SLE R	4	10	250.00	-82462.40	-2969.94	-457.56	0.00	46.94	28.84	412.56
12.00	4	SLE Q	4	10	250.00	-72257.30	-2433.50	-835.36	0.00	46.94	26.00	370.43
12.50	2	SLE R	5	10	0.00	-68296.10	1343.39	165.25	0.00	9.24	59.01	833.90
12.50	4	SLE Q	5	10	0.00	-59750.90	1090.31	353.01	0.00	9.24	53.01	744.45
12.50	2	SLE R	5	10	0.00	-68296.10	1343.39	165.25	0.00	9.24	59.01	833.90
12.50	4	SLE Q	5	10	0.00	-59750.90	1090.31	353.01	0.00	9.24	53.01	744.45
15.00	2	SLE R	5	10	250.00	-67421.10	-1433.37	-124.33	0.00	9.24	58.88	830.57
15.00	4	SLE Q	5	10	250.00	-58875.90	-1164.09	-330.03	0.00	9.24	52.91	741.41
15.50	2	SLE R	6	7	0.00	-54268.90	1096.78	85.72	0.00	9.24	65.35	890.44
15.50	4	SLE Q	6	7	0.00	-47317.00	889.68	345.46	0.00	9.24	59.49	804.89
15.50	2	SLE R	6	7	0.00	-54268.90	1096.78	85.72	0.00	6.16	67.27	918.93
15.50	4	SLE Q	6	7	0.00	-47317.00	889.68	345.46	0.00	6.16	61.39	832.25
18.00	2	SLE R	6	7	250.00	-53612.70	-915.97	-32.43	0.00	6.16	62.88	870.11
18.00	4	SLE Q	6	7	250.00	-46660.80	-742.82	-235.58	0.00	6.16	56.77	780.47
18.50	2	SLE R	7	7	0.00	-40392.00	1333.42	-22.04	0.00	6.16	58.21	768.26
18.50	4	SLE Q	7	7	0.00	-35050.30	1080.60	263.47	0.00	6.16	52.71	691.80
18.50	2	SLE R	7	7	0.00	-40392.00	1333.42	-22.04	0.00	6.16	58.21	768.26
18.50	4	SLE Q	7	7	0.00	-35050.30	1080.60	263.47	0.00	6.16	52.71	691.80
21.00	2	SLE R	7	7	250.00	-39735.80	-1028.54	47.12	0.00	6.16	52.84	710.01
21.00	4	SLE Q	7	7	250.00	-34394.00	-833.08	-173.91	0.00	6.16	46.67	625.53
21.50	2	SLE R	8	7	0.00	-26216.70	1410.40	-48.51	0.00	6.16	47.51	600.12
21.50	4	SLE Q	8	7	0.00	-22535.00	1142.31	246.31	0.00	6.16	42.63	536.30
21.50	2	SLE R	8	7	0.00	-26216.70	1410.40	-48.51	0.00	6.16	47.51	600.12
21.50	4	SLE Q	8	7	0.00	-22535.00	1142.31	246.31	0.00	6.16	42.63	536.30
24.00	2	SLE R	8	7	250.00	-25560.50	-1073.06	-0.38	0.00	6.16	40.52	524.32
24.00	4	SLE Q	8	7	250.00	-21878.80	-869.57	-216.02	0.00	6.16	36.94	474.25
24.50	2	SLE R	9	7	0.00	-11861.70	1591.13	-453.83	3.08	3.08	61.17	738.09
24.50	4	SLE Q	9	7	0.00	-9878.77	1272.57	-100.83	3.08	3.08	41.46	457.40
24.50	2	SLE R	9	7	0.00	-11861.70	1591.13	-453.83	3.08	3.08	61.17	738.09
24.50	4	SLE Q	9	7	0.00	-9878.77	1272.57	-100.83	3.08	3.08	41.46	457.40
27.00	2	SLE R	9	7	250.00	-11205.50	-1295.13	704.60	3.08	3.08	56.99	606.72
27.00	4	SLE Q	9	7	250.00	-9222.52	-1023.12	383.99	3.08	3.08	39.87	431.64

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	-9878.77	-100.83	1272.57	39.00	258.00	0.50	14.00	220.16	1.54	156.31	457.40	0.13	0.05
24.50	3	SLE F	9	7	0.00	-10417.30	-201.96	1360.99	39.00	258.00	0.50	14.00	204.52	1.54	139.11	534.44	0.16	0.05
24.50	4	SLE Q	9	7	0.00	-9878.77	-100.83	1272.57	39.00	258.00	0.50	14.00	220.16	1.54	156.31	457.40	0.13	0.05
24.50	3	SLE F	9	7	0.00	-10417.30	-201.96	1360.99	39.00	258.00	0.50	14.00	204.52	1.54	139.11	534.44	0.16	0.05
27.00	4	SLE Q	9	7	250.00	-9222.52	383.99	-1023.12	39.00	258.00	0.50	14.00	141.05	1.54	69.33	360.12	0.10	0.03
27.00	3	SLE F	9	7	250.00	-9761.08	475.93	-1097.66	39.00	258.00	0.50	14.00	140.38	1.54	67.58	423.50	0.12	0.03

Relazione di calcolo

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	S
0.00	0.54	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	1286.92	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	382.52	2.50	0.00	57709.10	107066.00	51938.20	34
0.54	2.72	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	1286.92	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	382.52	2.50	0.00	57709.10	107066.00	51938.20	34
2.72	3.00	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	1286.92	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	382.52	2.50	0.00	57709.10	107066.00	51938.20	34
3.50	3.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2611.99	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	379.07	2.50	0.00	44432.50	82434.00	39989.30	16
3.96	5.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2611.99	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	379.07	2.50	0.00	44432.50	82434.00	39989.30	16
5.80	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2611.99	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	379.07	2.50	0.00	44432.50	82434.00	39989.30	16
6.50	6.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2695.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	170.69	2.50	0.00	44432.50	82434.00	39989.30	16
6.96	8.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2695.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	170.69	2.50	0.00	44432.50	82434.00	39989.30	16
8.80	9.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2695.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	170.69	2.50	0.00	44432.50	82434.00	39989.30	16
9.50	9.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	3531.58	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	457.77	2.50	0.00	44432.50	82434.00	39989.30	12
9.96	11.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	3531.58	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	457.77	2.50	0.00	44432.50	82434.00	39989.30	12
11.80	12.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	3531.58	2.50	0.00	48858.10	82987.10	43972.30	0.60	0.50	457.77	2.50	0.00	44432.50	82331.10	39989.30	12
12.50	12.96	ø6/15	2	2	---	1	SLU	0.35	0.35	1547.33	2.50	9277.05	---	13490.00	9277.05	0.40	0.30	203.08	2.50	7955.54	---	13221.00	7955.54	5
12.96	14.80	ø6/15	2	2	---	1	SLU	0.35	0.35	1547.33	2.50	9277.05	---	13561.30	9277.05	0.40	0.30	203.08	2.50	7955.54	---	13290.80	7955.54	5
14.80	15.00	ø6/15	2	2	---	1	SLU	0.35	0.35	1547.33	2.50	9277.05	---	13846.30	9277.05	0.40	0.30	203.08	2.50	7955.54	---	13570.10	7955.54	5
15.50	15.96	ø6/15	2	2	---	1	SLU	0.35	0.25	1121.28	2.50	6634.02	---	8269.65	6634.02	0.30	0.30	112.59	2.50	7955.54	---	8500.27	7955.54	5
15.96	17.80	ø6/15	2	2	---	1	SLU	0.35	0.25	1121.28	2.50	6634.02	---	8320.59	6634.02	0.30	0.30	112.59	2.50	7955.54	---	8552.64	7955.54	5
17.80	18.00	ø6/15	2	2	---	1	SLU	0.35	0.25	1121.28	2.50	6634.02	---	8524.39	6634.02	0.30	0.30	112.59	2.50	7955.54	---	8762.12	7955.54	5
18.50	18.96	ø6/15	2	2	---	1	SLU	0.35	0.25	1314.66	2.50	6634.02	---	14588.60	6634.02	0.30	0.30	10.22	2.50	7955.54	---	14995.50	7955.54	5
18.96	20.80	ø6/15	2	2	---	1	SLU	0.35	0.25	1314.66	2.50	6634.02	---	14639.60	6634.02	0.30	0.30	10.22	2.50	7955.54	---	15047.90	7955.54	5
20.80	21.00	ø6/15	2	2	---	1	SLU	0.35	0.25	1314.66	2.50	6634.02	---	14843.40	6634.02	0.30	0.30	10.22	2.50	7955.54	---	15257.30	7955.54	5
21.50	21.96	ø6/15	2	2	---	1	SLU	0.35	0.25	1381.85	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	26.34	2.50	7955.54	---	16914.20	7955.54	4
21.96	23.80	ø6/15	2	2	---	1	SLU	0.35	0.25	1381.85	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	26.34	2.50	7955.54	---	16914.20	7955.54	4
23.80	24.00	ø6/15	2	2	---	1	SLU	0.35	0.25	1381.85	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	26.34	2.50	7955.54	---	16914.20	7955.54	4
24.50	24.96	ø6/15	2	2	---	1	SLU	0.35	0.25	1607.05	2.50	6634.02	---	15296.70	6634.02	0.30	0.30	617.38	2.50	7955.54	---	15723.30	7955.54	4
24.96	26.80	ø6/15	2	2	---	1	SLU	0.35	0.25	1607.05	2.50	6634.02	---	15276.30	6634.02	0.30	0.30	617.38	2.50	7955.54	---	15702.30	7955.54	4
26.80	27.00	ø6/15	2	2	---	1	SLU	0.35	0.25	1607.05	2.50	6634.02	---	15194.80	6634.02	0.30	0.30	617.38	2.50	7955.54	---	15618.50	7955.54	4

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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm²>	Fcd <daN/cm²>	Fyk <daN/cm²>	Fyd <daN/cm²>
60.00	70.00	249.00	141.10	4500.00	3913.04
60.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	esp.	Sic.	Δ%	
<m>					<cm>	<daNm>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>				
0.00	1	(e)	SLU	1	1	0.00	-220206.00	-803.39	-4404.11	-12.37	-4404.11	-797776.00	-80155.90	-67070.10	1.15	3.623	129.68
0.00	1	(e)	SLU	1	1	0.00	-220206.00	-803.39	-4404.11	-12.37	-4404.11	-797776.00	-80155.90	-67070.10	1.15	3.623	129.68
3.00	1	(e)	SLU	1	1	300.00	-216111.00	2519.82	4322.21	7.85	4322.21	-797776.00	80002.20	66911.70	1.14	3.692	129.68
3.50	1	(e)	SLU	2	10	0.00	-191555.00	-2447.58	-3831.10	380.08	3831.10	-670786.00	-53419.90	59654.00	1.15	3.502	163.53
3.50	1	(e)	SLU	2	10	0.00	-191555.00	-2447.58	-3831.10	380.08	3831.10	-670786.00	-53419.90	59654.00	1.15	3.502	163.53
6.00	1	(e)	SLU	2	10	250.00	-188874.00	1909.63	3777.47	-573.79	-3777.47	-670786.00	53408.50	-59608.10	1.15	3.552	157.57
6.50	1	(e)	SLU	3	10	0.00	-164405.00	-2722.19	-3288.10	1437.14	3288.10	-670786.00	-52869.20	58845.60	1.12	4.080	157.57
6.50	1	(e)	SLU	3	10	0.00	-164405.00	-2722.19	-3288.10	1437.14	3288.10	-670786.00	-52869.20	58845.60	1.12	4.080	157.57
9.00	1	(e)	SLU	3	10	250.00	-161724.00	1713.10	3234.47	-1246.59	-3234.47	-670786.00	52777.60	-58744.50	1.12	4.148	157.57
9.50	1	(e)	SLU	4	10	0.00	-137023.00	-3001.66	-3001.66	2444.06	2740.45	-670786.00	-51864.50	57736.10	1.09	4.895	157.57
9.50	1	(e)	SLU	4	10	0.00	-137023.00	-3001.66	-3001.66	2444.06	2740.45	-656377.00	-50339.30	57491.10	1.09	4.790	166.79
12.00	1	(e)	SLU	4	10	250.00	-134341.00	2748.25	2748.25	-2237.78	-2686.83	-656377.00	50238.10	-57357.30	1.09	4.886	166.79
12.50	1	(e)	SLU	5	10	0.00	-109102.00	-1355.89	-2182.05	490.49	2182.05	-246024.00	-11979.60	15720.70	1.29	2.255	---
12.50	1	(e)	SLU	5	10	0.00	-109102.00	-1355.89	-2182.05	490.49	2182.05	-246024.00	-11979.60	15720.70	1.29	2.255	---
15.00	1	(e)	SLU	5	10	250.00	-107965.00	1516.32	2159.30	-273.62	-2159.30	-246024.00	12018.10	-15792.30	1.28	2.279	---
18.50	1	(e)	SLU	7	7	0.00	-61228.10	-1906.33	-1906.33	-315.76	-1224.56	-180916.00	-9970.15	-8352.07	1.20	2.955	---
18.50	1	(e)	SLU	7	7	0.00	-61228.10	-1906.33	-1906.33	-315.76	-1224.56	-180916.00	-9970.15	-8352.07	1.20	2.955	---
21.00	1	(e)	SLU	7	7	250.00	-60375.00	1445.19	1445.19	299.78	1207.50	-180916.00	9943.71	8329.88	1.19	2.997	---
21.50	1	(e)	SLU	8	7	0.00	-40203.80	-1817.53	-1817.53	-513.25	-804.08	-40208.10	-8812.64	-7360.63	1.10	3.805	---
21.50	1	(e)	SLU	8	7	0.00	-40203.80	-1817.53	-1817.53	-513.25	-804.08	-40208.10	-7970.14	-6686.98	1.11	3.454	---
24.00	1	(e)	SLU	8	7	250.00	-39350.70	1260.42	1260.42	428.20	787.01	-39353.30	7901.54	6627.30	1.10	4.415	---
24.50	1	---	SLU	9	7	0.00	-20506.00	-2276.03	-2276.03	-617.84	-617.84	-20508.40	-5912.10	-4940.64	1.01	1.997	---
24.50	1	---	SLU	9	7	0.00	-20506.00	-2276.03	-2276.03	-617.84	-617.84	-20508.40	-5912.10	-4940.64	1.01	1.997	---
27.00	1	---	SLU	9	7	250.00	-19652.90	2246.69	2246.69	496.02	496.02	-19653.30	5808.14	4853.92	1.01	2.072	---

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ _c	σ _e
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	1	0.00	-158445.00	-0.21	-585.08	0.00	53.78	32.60	487.02
0.00	4	SLE Q	1	1	0.00	-138195.00	14.73	-426.90	0.00	53.78	28.32	423.38
0.00	2	SLE R	1	1	0.00	-158445.00	-0.21	-585.08	0.00	53.78	32.60	487.02
0.00	4	SLE Q	1	1	0.00	-138195.00	14.73	-426.90	0.00	53.78	28.32	423.38
3.00	2	SLE R	1	1	300.00	-155295.00	-8.41	1825.42	0.00	53.78	34.00	503.92
3.00	4	SLE Q	1	1	300.00	-135045.00	-41.32	1408.23	0.00	53.78	29.34	435.26
3.50	2	SLE R	2	10	0.00	-137751.00	304.97	-1780.75	0.00	53.78	38.85	569.07
3.50	4	SLE Q	2	10	0.00	-119961.00	316.39	-1364.69	0.00	53.78	33.48	491.12
3.50	2	SLE R	2	10	0.00	-137751.00	304.97	-1780.75	0.00	53.78	38.85	569.07
3.50	4	SLE Q	2	10	0.00	-119961.00	316.39	-1364.69	0.00	53.78	33.48	491.12
6.00	2	SLE R	2	10	250.00	-135688.00	-444.09	1389.89	0.00	53.78	37.67	553.13
6.00	4	SLE Q	2	10	250.00	-117898.00	-423.20	1060.17	0.00	53.78	32.44	477.00
6.50	2	SLE R	3	10	0.00	-118192.00	1080.31	-1973.10	0.00	53.78	36.40	526.62
6.50	4	SLE Q	3	10	0.00	-102787.00	994.28	-1525.87	0.00	53.78	31.29	453.52
6.50	2	SLE R	3	10	0.00	-118192.00	1080.31	-1973.10	0.00	53.78	36.40	526.62
6.50	4	SLE Q	3	10	0.00	-102787.00	994.28	-1525.87	0.00	53.78	31.29	453.52
9.00	2	SLE R	3	10	250.00	-116130.00	-937.01	1245.92	0.00	53.78	33.69	491.61
9.00	4	SLE Q	3	10	250.00	-100725.00	-853.36	951.37	0.00	53.78	28.98	423.46
9.50	2	SLE R	4	10	0.00	-98450.20	1828.52	-2178.47	0.00	53.78	33.87	483.13
9.50	4	SLE Q	4	10	0.00	-85385.30	1663.32	-1685.04	0.00	53.78	29.03	414.76
9.50	2	SLE R	4	10	0.00	-98450.20	1828.52	-2178.47	0.00	49.76	34.28	489.14
9.50	4	SLE Q	4	10	0.00	-85385.30	1663.32	-1685.04	0.00	49.76	29.38	419.91
12.00	2	SLE R	4	10	250.00	-96387.70	-1676.05	1995.81	0.00	49.76	32.94	471.11
12.00	4	SLE Q	4	10	250.00	-83322.80	-1525.55	1535.08	0.00	49.76	28.16	403.37
12.50	2	SLE R	5	10	0.00	-78307.90	384.68	-989.07	0.00	12.06	63.53	898.26
12.50	4	SLE Q	5	10	0.00	-67622.80	362.26	-738.92	0.00	12.06	53.89	765.11
12.50	2	SLE R	5	10	0.00	-78307.90	384.68	-989.07	0.00	12.06	63.53	898.26
12.50	4	SLE Q	5	10	0.00	-67622.80	362.26	-738.92	0.00	12.06	53.89	765.11
15.00	2	SLE R	5	10	250.00	-77432.90	-228.38	1106.34	0.00	12.06	62.87	888.13
15.00	4	SLE Q	5	10	250.00	-66747.80	-229.57	823.14	0.00	12.06	53.08	753.45
15.50	2	SLE R	6	7	0.00	-60279.40	18.13	-1360.49	0.00	12.06	68.00	943.16
15.50	4	SLE Q	6	7	0.00	-51907.50	38.34	-1011.14	0.00	12.06	56.69	791.50
15.50	2	SLE R	6	7	0.00	-60279.40	18.13	-1360.49	0.00	8.04	70.54	981.21
15.50	4	SLE Q	6	7	0.00	-51907.50	38.34	-1011.14	0.00	8.04	58.91	824.51
18.00	2	SLE R	6	7	250.00	-59623.20	56.41	1028.34	0.00	8.04	66.03	929.03
18.00	4	SLE Q	6	7	250.00	-51251.20	30.72	764.71	0.00	8.04	54.83	777.55
18.50	2	SLE R	7	7	0.00	-43951.30	-199.07	-1391.76	0.00	8.04	59.99	807.25
18.50	4	SLE Q	7	7	0.00	-37677.70	-146.46	-1034.62	0.00	8.04	48.85	663.98
18.50	2	SLE R	7	7	0.00	-43951.30	-199.07	-1391.76	0.00	8.04	59.99	807.25
18.50	4	SLE Q	7	7	0.00	-37677.70	-146.46	-1034.62	0.00	8.04	48.85	663.98
21.00	2	SLE R	7	7	250.00	-43295.10	193.78	1054.56	0.00	8.04	54.70	746.95
21.00	4	SLE Q	7	7	250.00	-37021.50	147.93	782.75	0.00	8.04	44.84	617.72
21.50	2	SLE R	8	7	0.00	-28867.20	-338.98	-1329.14	0.00	8.04	48.54	628.11
21.50	4	SLE Q	8	7	0.00	-24481.30	-266.40	-987.16	0.00	8.04	38.89	507.95
21.50	2	SLE R	8	7	0.00	-28867.20	-338.98	-1329.14	0.00	6.16	49.98	648.49
21.50	4	SLE Q	8	7	0.00	-24481.30	-266.40	-987.16	0.00	6.16	40.03	524.15
24.00	2	SLE R	8	7	250.00	-28211.00	284.91	925.01	0.00	6.16	42.72	566.56
24.00	4	SLE Q	8	7	250.00	-23825.00	226.01	688.37	0.00	6.16	34.51	461.25
24.50	2	SLE R	9	7	0.00	-14729.40	-413.66	-1656.57	3.08	3.08	51.58	597.24
24.50	4	SLE Q	9	7	0.00	-12052.80	-325.99	-1232.78	3.08	3.08	38.37	452.01
24.50	2	SLE R	9	7	0.00	-14729.40	-413.66	-1656.57	3.08	3.08	51.58	597.24
24.50	4	SLE Q	9	7	0.00	-12052.80	-325.99	-1232.78	3.08	3.08	38.37	452.01
27.00	2	SLE R	9	7	250.00	-14073.10	333.37	1625.21	3.08	3.08	48.81	565.19
27.00	4	SLE Q	9	7	250.00	-11396.50	260.15	1203.62	3.08	3.08	36.06	424.82

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0	X1	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRsdCam _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRsdCam _z	VRcd _z	Vrd _z
<m>	<m>							<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<daN>
0.00	0.50	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	6.74	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	1107.74	2.50	0.00	57709.10	107066.00	51938.20
0.50	2.50	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	6.74	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	1107.74	2.50	0.00	57709.10	107066.00	51938.20
2.50	3.00	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	6.74	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	1107.74	2.50	0.00	57709.10	107066.00	51938.20
3.50	3.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	381.55	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1742.88	2.50	0.00	44432.50	82434.00	39989.30
3.95	5.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	381.55	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1742.88	2.50	0.00	44432.50	82434.00	39989.30
5.55	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	381.55	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1742.88	2.50	0.00	44432.50	82434.00	39989.30
6.50	6.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1073.49	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1774.12	2.50	0.00	44432.50	82434.00	39989.30
6.95	8.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1073.49	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1774.12	2.50	0.00	44432.50	82434.00	39989.30
8.55	9.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1073.49	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1774.12	2.50	0.00	44432.50	82434.00	39989.30
9.50	9.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1872.73	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2299.97	2.50	0.00	44432.50	82434.00	39989.30
9.95	11.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1872.73	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2299.97	2.50	0.00	44432.50	82434.00	39989.30
11.55	12.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1872.73	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2299.97	2.50	0.00	44432.50	82434.00	39989.30
12.50	12.95	ø6/15	2	2	---	1	SLU	0.35	0.35	305.64	2.44	9045.57	---	9045.57	9045.57	0.40	0.30	1148.88	2.50	7955.54	---	8705.78	7955.54
12.95	14.55	ø6/15	2	2	---	1	SLU	0.35	0.35	305.64	2.45	9086.94	---	9086.94	9086.94	0.40	0.30	1148.88	2.50	7955.54	---	8774.09	7955.54
14.55	15.00	ø6/15	2	2	---	1	SLU	0.35	0.35	305.64	2.49	9232.51	---	9232.52	9232.51	0.40	0.30	1148.88	2.50	7955.54	---	9016.96	7955.54
15.50	15.95	ø6/15	2	2	---	1	SLU	0.35	0.25	44.94	2.27	6035.69	---	6035.69	6035.69	0.30	0.30	1308.65	2.07	6592.28	---	6592.28	6592.28
15.95	17.55	ø6/15	2	2	---	1	SLU	0.35	0.25	44.94	2.29	6067.38	---	6067.38	6067.38	0.30	0.30	1308.65	2.08	6628.04	---	6628.04	6628.04
17.55	18.00	ø6/15	2	2	---	1	SLU	0.35	0.25	44.94	2.33	6178.74	---	6178.74	6178.74	0.30	0.30	1308.65	2.12	6753.66	---	6753.66	6753.66
18.50	18.95	ø6/15	2	2	---	1	SLU	0.35	0.25	246.22	2.50	6634.02	---	13037.90	6634.02	0.30	0.30	1340.61	2.50	7955.54	---	13401.50	7955.54
18.95	20.55	ø6/15	2	2	---	1	SLU	0.35	0.25	246.22	2.50	6634.02	---	13087.70	6634.02	0.30	0.30	1340.61	2.50	7955.54	---	13452.70	7955.54
20.55	21.00	ø6/15	2	2	---	1	SLU	0.35	0.25	246.22	2.50	6634.02	---	13264.90	6634.02	0.30	0.30	1340.61	2.50	7955.54	---	13634.90	7955.54
21.50	21.95	ø6/15	2	2	---	1	SLU	0.35	0.25	376.58	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1231.18	2.50	7955.54	---	16914.20	7955.54

Relazione di calcolo

21.95	23.55	ø6/15	2	2	---	1	SLU	0.35	0.25	376.58	2.50	6634.02	---	---	16455.30	6634.02	0.30	0.30	1231.18	2.50	7955.54	---	---	16914.20	7955.54
23.55	24.00	ø6/15	2	2	---	1	SLU	0.35	0.25	376.58	2.50	6634.02	---	---	16455.30	6634.02	0.30	0.30	1231.18	2.50	7955.54	---	---	16914.20	7955.54
24.50	24.95	ø6/15	2	2	---	1	SLU	0.35	0.25	445.54	2.50	6634.02	---	---	15826.50	6634.02	0.30	0.30	1809.09	2.50	7955.54	---	---	16267.90	7955.54
24.95	26.55	ø6/15	2	2	---	1	SLU	0.35	0.25	445.54	2.50	6634.02	---	---	15806.60	6634.02	0.30	0.30	1809.09	2.50	7955.54	---	---	16247.40	7955.54
26.55	27.00	ø6/15	2	2	---	1	SLU	0.35	0.25	445.54	2.50	6634.02	---	---	15735.70	6634.02	0.30	0.30	1809.09	2.50	7955.54	---	---	16174.50	7955.54

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/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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm<sup>q>	Fcd <daN/cm<sup>q>	Fyk <daN/cm<sup>q>	Fyd <daN/cm<sup>q>
60.00	70.00	249.00	141.10	4500.00	3913.04
60.00	55.00	249.00	141.10	4500.00	3913.04
50.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

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>	esp.	Sic.	Δ%
0.00	1(e)	SLU	1	1	0.00	-258548.00	-1611.41	-5170.95	99.72	5170.95	-797776.00	-81086.90	67551.00	1.19	3.086	129.68
0.00	1(e)	SLU	1	1	0.00	-258548.00	-1611.41	-5170.95	99.72	5170.95	-797776.00	-81086.90	67551.00	1.19	3.086	129.68
3.00	1(e)	SLU	1	1	300.00	-254453.00	3933.30	5089.05	-181.22	-5089.05	-797776.00	80994.00	-67562.50	1.18	3.135	129.68
3.50	1(e)	SLU	2	10	0.00	-228853.00	-3893.71	-4577.07	476.35	4577.07	-670786.00	-53323.40	59276.70	1.20	2.931	1266.82
3.50	1(e)	SLU	2	10	0.00	-228853.00	-3893.71	-4577.07	476.35	4577.07	-670786.00	-53323.40	59276.70	1.20	2.931	1266.82
6.00	1(e)	SLU	2	10	250.00	-226172.00	3106.83	4523.44	-474.83	-4523.44	-670786.00	53350.90	-59315.20	1.20	2.966	1023.42
6.50	1(e)	SLU	3	10	0.00	-201385.00	-4396.80	-4396.80	1084.63	4027.70	-670786.00	-53450.50	59583.50	1.17	3.331	270.82
6.50	1(e)	SLU	3	10	0.00	-201385.00	-4396.80	-4396.80	1084.63	4027.70	-670786.00	-53450.50	59583.50	1.17	3.331	270.82
9.00	1(e)	SLU	3	10	250.00	-198704.00	3201.26	3974.07	-919.04	-3974.07	-670786.00	53444.00	-59604.60	1.16	3.376	214.89
9.50	1(e)	SLU	4	10	0.00	-174659.00	-4302.08	-4302.08	1686.73	3493.19	-670786.00	-53200.90	59214.10	1.13	3.841	157.57
9.50	1(e)	SLU	4	10	0.00	-174659.00	-4302.08	-4302.08	1686.73	3493.19	-656377.00	-53163.10	57243.40	1.14	3.758	185.21
12.00	1(e)	SLU	4	10	250.00	-171978.00	3200.71	3439.56	-1458.06	-3439.56	-656377.00	53069.40	-57155.80	1.14	3.817	166.79
12.50	1(e)	SLU	5	10	0.00	-148056.00	-4605.45	-4605.45	1123.67	2961.12	-656377.00	-52135.00	56293.60	1.10	4.433	166.79
12.50	1(e)	SLU	5	10	0.00	-148056.00	-4605.45	-4605.45	1123.67	2961.12	-656377.00	-52135.00	56293.60	1.10	4.433	166.79
15.00	1(e)	SLU	5	10	250.00	-145375.00	3789.47	3789.47	-270.53	-2907.50	-656377.00	52020.50	-56188.70	1.10	4.515	166.79
15.50	1(e)	SLU	6	7	0.00	-119580.00	-4588.14	-4588.14	-483.33	-2391.60	-578772.00	-47767.10	-41256.00	1.09	4.840	304.71
15.50	1(e)	SLU	6	7	0.00	-119580.00	-4588.14	-4588.14	-483.33	-2391.60	-564362.00	-46228.90	-41132.60	1.09	4.720	401.17
18.00	1(e)	SLU	6	7	250.00	-117345.00	3618.48	3618.48	707.36	2346.91	-564362.00	46143.90	41056.30	1.09	4.809	292.35
18.50	1(e)	SLU	7	7	0.00	-90019.30	-4912.50	-4912.50	-1567.84	-1800.39	-564362.00	-44546.30	-39763.90	1.05	6.269	345.04
18.50	1(e)	SLU	7	7	0.00	-90019.30	-4912.50	-4912.50	-1567.84	-1800.39	-564362.00	-44546.30	-39763.90	1.05	6.269	345.04
21.00	1(e)	SLU	7	7	250.00	-87784.90	3719.70	3719.70	1455.60	1755.70	-564362.00	44352.40	39592.90	1.05	6.429	244.12
21.50	1	SLU	8	7	0.00	-59295.80	-4868.64	-4868.64	-2242.57	-2242.57	-59297.10	-41675.00	-37243.50	1.00	5.705	265.28
21.50	1	SLU	8	7	0.00	-59295.80	-4868.64	-4868.64	-2242.57	-2242.57	-59297.10	-40947.50	-36643.60	1.01	5.622	295.98
24.00	1	SLU	8	7	250.00	-57061.40	3636.42	3636.42	1781.30	1781.30	-57065.80	40723.80	36446.30	1.00	7.275	278.54
24.50	1	SLU	9	7	0.00	-27633.40	-4879.46	-4879.46	-3209.62	-3209.62	-27637.30	-37660.60	-33741.40	1.00	4.451	463.30
24.50	1	SLU	9	7	0.00	-27633.40	-4879.46	-4879.46	-3209.62	-3209.62	-27637.30	-37660.60	-33741.40	1.00	4.451	463.30
27.00	1	SLU	9	7	250.00	-25399.00	3880.12	3880.12	3313.17	3313.17	-25401.00	37421.00	33529.90	1.00	4.938	485.47

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	-187500.00	92.45	-1221.96	0.00	53.78	39.62	589.61
0.00	4	SLE Q	1	1	0.00	-165768.00	93.00	-1102.25	0.00	53.78	35.09	522.01
0.00	2	SLE R	1	1	0.00	-187500.00	92.45	-1221.96	0.00	53.78	39.62	589.61
0.00	4	SLE Q	1	1	0.00	-165768.00	93.00	-1102.25	0.00	53.78	35.09	522.01
3.00	2	SLE R	1	1	300.00	-184350.00	-164.71	2938.29	0.00	53.78	41.93	617.92
3.00	4	SLE Q	1	1	300.00	-162618.00	-173.37	2579.60	0.00	53.78	37.02	545.50
3.50	2	SLE R	2	10	0.00	-165835.00	401.56	-2916.37	0.00	53.78	48.85	710.81
3.50	4	SLE Q	2	10	0.00	-146255.00	404.64	-2567.00	0.00	53.78	43.19	628.21
3.50	2	SLE R	2	10	0.00	-165835.00	401.56	-2916.37	0.00	53.78	48.85	710.81
3.50	4	SLE Q	2	10	0.00	-146255.00	404.64	-2567.00	0.00	53.78	43.19	628.21
6.00	2	SLE R	2	10	250.00	-163773.00	-390.75	2326.37	0.00	53.78	46.80	684.09
6.00	4	SLE Q	2	10	250.00	-144192.00	-390.02	2045.42	0.00	53.78	41.31	603.57
6.50	2	SLE R	3	10	0.00	-145875.00	848.18	-3281.53	0.00	53.78	45.98	662.74
6.50	4	SLE Q	3	10	0.00	-128422.00	826.37	-2879.92	0.00	53.78	40.64	585.51
6.50	2	SLE R	3	10	0.00	-145875.00	848.18	-3281.53	0.00	53.78	45.98	662.74
6.50	4	SLE Q	3	10	0.00	-128422.00	826.37	-2879.92	0.00	53.78	40.64	585.51
9.00	2	SLE R	3	10	250.00	-143812.00	-719.08	2394.89	0.00	53.78	42.89	623.05
9.00	4	SLE Q	3	10	250.00	-126360.00	-699.02	2102.71	0.00	53.78	37.83	549.37
9.50	2	SLE R	4	10	0.00	-126472.00	1292.71	-3211.91	0.00	53.78	42.11	602.74
9.50	4	SLE Q	4	10	0.00	-111110.00	1239.12	-2827.01	0.00	53.78	37.25	532.74
9.50	2	SLE R	4	10	0.00	-126472.00	1292.71	-3211.91	0.00	49.76	42.61	610.05
9.50	4	SLE Q	4	10	0.00	-111110.00	1239.12	-2827.01	0.00	49.76	37.69	539.20
12.00	2	SLE R	4	10	250.00	-124409.00	-1109.78	2391.18	0.00	49.76	39.54	570.71
12.00	4	SLE Q	4	10	250.00	-109048.00	-1055.89	2109.34	0.00	49.76	34.89	503.14
12.50	2	SLE R	5	10	0.00	-107165.00	907.49	-3437.56	0.00	49.76	37.51	534.22
12.50	4	SLE Q	5	10	0.00	-93900.30	902.63	-2996.40	0.00	49.76	33.08	470.80
12.50	2	SLE R	5	10	0.00	-107165.00	907.49	-3437.56	0.00	49.76	37.51	534.22

Relazione di calcolo

12.50	4	SLE Q	5	10	0.00	-93900.30	902.63	-2996.40	0.00	49.76	33.08	470.80
15.00	2	SLE R	5	10	250.00	-105103.00	-274.29	2825.30	0.00	49.76	33.92	488.13
15.00	4	SLE Q	5	10	250.00	-91837.80	-338.89	2450.33	0.00	49.76	29.83	428.89
15.50	2	SLE R	6	7	0.00	-86500.40	-272.60	-3418.11	0.00	49.76	35.80	507.83
15.50	4	SLE Q	6	7	0.00	-75512.30	-141.70	-2963.12	0.00	49.76	30.87	438.65
15.50	2	SLE R	6	7	0.00	-86500.40	-272.60	-3418.11	0.00	45.74	36.35	515.70
15.50	4	SLE Q	6	7	0.00	-75512.30	-141.70	-2963.12	0.00	45.74	31.34	445.51
18.00	2	SLE R	6	7	250.00	-84781.60	444.66	2698.08	0.00	45.74	34.26	488.42
18.00	4	SLE Q	6	7	250.00	-73793.60	301.34	2345.41	0.00	45.74	29.52	421.53
18.50	2	SLE R	7	7	0.00	-65083.00	-1035.82	-3657.35	0.00	45.74	33.39	462.08
18.50	4	SLE Q	7	7	0.00	-56540.80	-770.13	-3164.69	0.00	45.74	28.53	395.69
18.50	2	SLE R	7	7	0.00	-65083.00	-1035.82	-3657.35	0.00	45.74	33.39	462.08
18.50	4	SLE Q	7	7	0.00	-56540.80	-770.13	-3164.69	0.00	45.74	28.53	395.69
21.00	2	SLE R	7	7	250.00	-63364.30	975.72	2765.52	0.00	45.74	30.01	418.99
21.00	4	SLE Q	7	7	250.00	-54822.00	744.07	2375.06	0.00	45.74	25.58	357.79
21.50	2	SLE R	8	7	0.00	-42837.50	-1519.28	-3632.72	3.14	42.60	28.58	385.04
21.50	4	SLE Q	8	7	0.00	-36878.00	-1178.15	-3181.34	3.14	42.60	24.31	328.00
21.50	2	SLE R	8	7	0.00	-42837.50	-1519.28	-3632.72	3.14	40.72	28.75	387.43
21.50	4	SLE Q	8	7	0.00	-36878.00	-1178.15	-3181.34	3.14	40.72	24.46	330.05
24.00	2	SLE R	8	7	250.00	-41118.70	1209.95	2730.23	0.00	43.86	24.37	332.24
24.00	4	SLE Q	8	7	250.00	-35159.30	941.38	2460.13	0.00	43.86	20.90	284.98
24.50	2	SLE R	9	7	0.00	-19923.80	-2205.08	-3606.91	20.39	23.47	28.91	364.79
24.50	4	SLE Q	9	7	0.00	-16668.30	-1738.57	-3003.68	20.39	23.47	23.54	297.70
24.50	2	SLE R	9	7	0.00	-19923.80	-2205.08	-3606.91	20.39	23.47	28.91	364.79
24.50	4	SLE Q	9	7	0.00	-16668.30	-1738.57	-3003.68	20.39	23.47	23.54	297.70
27.00	2	SLE R	9	7	250.00	-18205.10	2291.23	2805.48	17.25	26.61	25.43	321.65
27.00	4	SLE Q	9	7	250.00	-14949.60	1822.34	2049.23	17.25	26.61	19.30	245.54

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	-16668.30	-3003.68	-1738.57	63.25	138.59	0.50	18.86	194.50	3.14	113.24	202.37	0.06	0.02
24.50	3	SLE F	9	7	0.00	-17541.10	-3177.17	-1866.95	63.25	138.59	0.50	18.86	195.13	3.14	114.28	217.97	0.06	0.02
24.50	4	SLE Q	9	7	0.00	-16668.30	-3003.68	-1738.57	63.25	138.59	0.50	18.86	194.50	3.14	113.24	202.37	0.06	0.02
24.50	3	SLE F	9	7	0.00	-17541.10	-3177.17	-1866.95	63.25	138.59	0.50	18.86	195.13	3.14	114.28	217.97	0.06	0.02
27.00	4	SLE Q	9	7	250.00	-14949.60	2049.23	1822.34	63.25	138.59	0.50	18.86	184.11	3.14	95.93	146.02	0.04	0.01
27.00	3	SLE F	9	7	250.00	-15822.30	2268.54	1948.91	63.25	138.59	0.50	18.86	186.33	3.14	99.64	165.09	0.05	0.02

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <mm>	X1 <mm>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <mm>	d _y <mm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <mm>	d _z <mm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Si
0.00	0.50	ø8/20	2	2	ø10/10	1	SLU	0.70	0.55	93.65	2.50	0.00	76064.10	105369.00	68457.70	0.60	0.65	1848.24	2.50	0.00	89893.90	106737.00	80904.50	43.
0.50	2.50	ø8/20	2	2	ø10/10	1	SLU	0.70	0.55	93.65	2.50	0.00	76064.10	105369.00	68457.70	0.60	0.65	1848.24	2.50	0.00	89893.90	106737.00	80904.50	43.
2.50	3.00	ø8/20	2	2	ø10/10	1	SLU	0.70	0.55	93.65	2.50	0.00	76064.10	105369.00	68457.70	0.60	0.65	1848.24	2.50	0.00	89893.90	106737.00	80904.50	43.
3.50	3.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	380.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2800.22	2.50	0.00	44432.50	82434.00	39989.30	14.
3.95	5.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	380.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2800.22	2.50	0.00	44432.50	82434.00	39989.30	14.
5.55	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	380.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2800.22	2.50	0.00	44432.50	82434.00	39989.30	14.
6.50	6.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	801.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3039.22	2.50	0.00	44432.50	82434.00	39989.30	13.
6.95	8.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	801.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3039.22	2.50	0.00	44432.50	82434.00	39989.30	13.
8.55	9.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	801.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3039.22	2.50	0.00	44432.50	82434.00	39989.30	13.
9.50	9.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1257.91	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3001.12	2.50	0.00	44432.50	82434.00	39989.30	13.
9.95	11.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1257.91	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3001.12	2.50	0.00	44432.50	82434.00	39989.30	13.
11.55	12.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1257.91	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3001.11	2.50	0.00	44432.50	82434.00	39989.30	13.
12.50	12.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	557.68	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3357.97	2.50	0.00	44432.50	82434.00	39989.30	11.
12.95	14.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	557.68	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3357.97	2.50	0.00	44432.50	82434.00	39989.30	11.
14.55	15.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	557.68	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3357.97	2.50	0.00	44432.50	82434.00	39989.30	11.
15.00	15.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	476.28	2.50	0.00	40007.00	68038.20	36006.30	0.50	0.50	3282.65	2.50	0.00	44432.50	68695.00	39989.30	12.
15.95	17.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	476.28	2.50	0.00	40007.00	68038.20	36006.30	0.50	0.50	3282.65	2.50	0.00	44432.50	68695.00	39989.30	12.
17.55	18.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	476.28	2.50	0.00	40007.00	68038.20	36006.30	0.50	0.50	3282.65	2.50	0.00	44432.50	68695.00	39989.30	12.
18.50	18.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1209.37	2.50	0.00	40007.00	67058.10	36006.30	0.50	0.50	3452.88	2.50	0.00	44432.50	67705.50	39989.30	11.
18.95	20.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1209.37	2.50	0.00	40007.00	67001.70	36006.30	0.50	0.50	3452.88	2.50	0.00	44432.50	67648.50	39989.30	11.
20.55	21.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1209.37	2.50	0.00	40007.00	66801.10	36006.30	0.50	0.50	3452.88	2.50	0.00	44432.50	67446.00	39989.30	11.
21.50	21.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1609.55	2.50	0.00	40007.00	62748.30	36006.30	0.50	0.50	3402.02	2.50	0.00	44432.50	63354.10	39989.30	11.
21.95	23.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1609.55	2.50	0.00	40007.00	62691.90	36006.30	0.50	0.50	3402.03	2.50	0.00	44432.50	63297.10	39989.30	11.
23.55	24.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1609.55	2.50	0.00	40007.00	62491.30	36006.30	0.50	0.50	3402.03	2.50	0.00	44432.50	63094.60	39989.30	11.
24.50	24.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	2609.11	2.50	0.00	40007.00	58306.80	36006.30	0.50	0.50	3503.83	2.50	0.00	44432.50	58869.70	39989.30	11.
24.95	26.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	2609.11	2.50	0.00	40007.00	58250.40	36006.30	0.50	0.50	3503.83	2.50	0.00	44432.50	58812.80	39989.30	11.
26.55	27.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	2609.12	2.50	0.00	40007.00	58049.80	36006.30	0.50	0.50	3503.83	2.50	0.00	44432.50	58610.20	39989.30	11.

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/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq></
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Relazione di calcolo

60.00	55.00	249.00	141.10	4500.00	3913.04
50.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

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>	esp.	Sic.	Δ%
0.00	1(e)	SLU	1	1	0.00	-259056.00	-1599.50	-5181.12	-99.54	-5181.12	-748603.00	-72664.60	-60624.90	1.21	2.890	115.52
0.00	1(e)	SLU	1	1	0.00	-259056.00	-1599.50	-5181.12	-99.54	-5181.12	-748603.00	-72664.60	-60624.90	1.21	2.890	115.52
3.00	1(e)	SLU	1	1	300.00	-254961.00	3927.10	5099.22	154.88	5099.22	-748603.00	72614.00	60624.20	1.20	2.936	115.52
3.50	1(e)	SLU	2	10	0.00	-229181.00	-3851.85	-4583.62	-358.33	-4583.62	-670786.00	-53320.00	-59271.90	1.20	2.927	1301.93
3.50	1(e)	SLU	2	10	0.00	-229181.00	-3851.85	-4583.62	-358.33	-4583.62	-670786.00	-53320.00	-59271.90	1.20	2.927	1301.93
6.00	1(e)	SLU	2	10	250.00	-226500.00	3049.96	4530.00	445.80	4530.00	-670786.00	53347.60	59310.60	1.20	2.962	1048.53
6.50	1(e)	SLU	3	10	0.00	-201489.00	-4264.12	-4264.12	-641.78	-4029.78	-670786.00	-53450.70	-59582.70	1.17	3.329	260.58
6.50	1(e)	SLU	3	10	0.00	-201489.00	-4264.12	-4264.12	-641.78	-4029.78	-670786.00	-53450.70	-59582.70	1.17	3.329	260.58
9.00	1(e)	SLU	3	10	250.00	-198808.00	3178.70	3976.15	658.39	3976.15	-670786.00	53444.30	59603.80	1.16	3.374	215.76
9.50	1(e)	SLU	4	10	0.00	-174602.00	-4215.03	-4215.03	-973.94	-3492.03	-670786.00	-53199.30	-59212.00	1.13	3.842	157.57
9.50	1(e)	SLU	4	10	0.00	-174602.00	-4215.03	-4215.03	-973.94	-3492.03	-656377.00	-53161.00	-57241.50	1.14	3.759	179.50
12.00	1(e)	SLU	4	10	250.00	-171920.00	3134.39	3438.41	907.83	3438.41	-656377.00	53067.30	57153.90	1.13	3.818	166.79
12.50	1(e)	SLU	5	10	0.00	-147888.00	-4630.67	-4630.67	-861.80	-2957.75	-656377.00	-52127.80	-56287.20	1.10	4.438	166.79
12.50	1(e)	SLU	5	10	0.00	-147888.00	-4630.67	-4630.67	-861.80	-2957.75	-656377.00	-52127.80	-56287.20	1.10	4.438	166.79
15.00	1(e)	SLU	5	10	250.00	-145206.00	3812.22	3812.22	-0.97	-2904.13	-656377.00	52013.30	-56182.10	1.10	4.520	166.79
15.50	1(e)	SLU	6	7	0.00	-119267.00	-4649.29	-4649.29	691.05	2385.34	-578772.00	-47754.60	41246.60	1.09	4.853	308.12
15.50	1(e)	SLU	6	7	0.00	-119267.00	-4649.29	-4649.29	691.05	2385.34	-564362.00	-46217.10	41122.00	1.09	4.732	404.97
18.00	1(e)	SLU	6	7	250.00	-117033.00	3651.70	3651.70	-877.46	-2340.65	-564362.00	46131.70	-41045.50	1.09	4.822	293.56
18.50	1(e)	SLU	7	7	0.00	-89663.00	-4983.28	-4983.28	1716.93	1793.26	-564362.00	-44515.50	39737.20	1.05	6.294	350.09
18.50	1(e)	SLU	7	7	0.00	-89663.00	-4983.28	-4983.28	1716.93	1793.26	-564362.00	-44515.50	39737.20	1.05	6.294	350.09
21.00	1(e)	SLU	7	7	250.00	-87428.60	3775.88	3775.88	-1579.27	-1748.57	-564362.00	44321.00	-39565.40	1.05	6.455	248.92
21.50	1	SLU	8	7	0.00	-58959.60	-4946.36	-4946.36	2319.02	2319.02	-58963.40	-41641.50	37214.40	1.00	5.570	266.98
21.50	1	SLU	8	7	0.00	-58959.60	-4946.36	-4946.36	2319.02	2319.02	-58962.60	-40914.00	36614.10	1.00	5.489	297.90
24.00	1	SLU	8	7	250.00	-56725.20	3687.26	3687.26	-1798.38	-1798.38	-56729.70	40690.20	-36416.60	1.00	7.170	279.98
24.50	1	SLU	9	7	0.00	-27482.10	-4945.39	-4945.39	3651.78	3651.78	-27486.80	-37644.60	33727.10	1.00	4.173	467.54
24.50	1	SLU	9	7	0.00	-27482.10	-4945.39	-4945.39	3651.78	3651.78	-27486.80	-37644.60	33727.10	1.00	4.173	467.54
27.00	1	SLU	9	7	250.00	-25247.70	4074.09	4074.09	-3657.35	-3657.35	-25249.70	37405.00	-33515.60	1.00	4.586	489.23

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	-187855.00	-91.97	-1214.16	0.00	41.22	41.25	614.03
0.00	4	SLE Q	1	1	0.00	-166019.00	-110.03	-1097.53	0.00	41.22	36.56	543.93
0.00	2	SLE R	1	1	0.00	-187855.00	-91.97	-1214.16	0.00	41.22	41.25	614.03
0.00	4	SLE Q	1	1	0.00	-166019.00	-110.03	-1097.53	0.00	41.22	36.56	543.93
3.00	2	SLE R	1	1	300.00	-184705.00	146.35	2935.15	0.00	41.22	43.65	643.69
3.00	4	SLE Q	1	1	300.00	-162869.00	169.07	2574.98	0.00	41.22	38.55	568.32
3.50	2	SLE R	2	10	0.00	-166062.00	-313.63	-2886.64	0.00	53.78	48.63	708.10
3.50	4	SLE Q	2	10	0.00	-146396.00	-348.30	-2545.05	0.00	53.78	43.04	626.36
3.50	2	SLE R	2	10	0.00	-166062.00	-313.63	-2886.64	0.00	53.78	48.63	708.10
3.50	4	SLE Q	2	10	0.00	-146396.00	-348.30	-2545.05	0.00	53.78	43.04	626.36
6.00	2	SLE R	2	10	250.00	-164000.00	366.50	2286.49	0.00	53.78	46.70	682.93
6.00	4	SLE Q	2	10	250.00	-144334.00	386.72	2016.60	0.00	53.78	41.26	603.06
6.50	2	SLE R	3	10	0.00	-145942.00	-536.43	-3189.52	0.00	53.78	45.03	650.86
6.50	4	SLE Q	3	10	0.00	-128439.00	-568.37	-2804.21	0.00	53.78	39.85	575.55
6.50	2	SLE R	3	10	0.00	-145942.00	-536.43	-3189.52	0.00	53.78	45.03	650.86
6.50	4	SLE Q	3	10	0.00	-128439.00	-568.37	-2804.21	0.00	53.78	39.85	575.55
9.00	2	SLE R	3	10	250.00	-143880.00	534.80	2379.55	0.00	53.78	42.43	617.38
9.00	4	SLE Q	3	10	250.00	-126376.00	555.04	2092.84	0.00	53.78	37.48	544.87
9.50	2	SLE R	4	10	0.00	-126421.00	-789.85	-3151.28	0.00	53.78	40.77	585.80
9.50	4	SLE Q	4	10	0.00	-111043.00	-806.68	-2773.06	0.00	53.78	36.09	518.03
9.50	2	SLE R	4	10	0.00	-126421.00	-789.85	-3151.28	0.00	49.76	41.25	592.94
9.50	4	SLE Q	4	10	0.00	-111043.00	-806.68	-2773.06	0.00	49.76	36.51	524.34
12.00	2	SLE R	4	10	250.00	-124358.00	723.71	2346.05	0.00	49.76	38.50	557.57
12.00	4	SLE Q	4	10	250.00	-108981.00	721.74	2067.95	0.00	49.76	33.98	491.62
12.50	2	SLE R	5	10	0.00	-107034.00	-709.99	-3454.29	0.00	49.76	37.05	528.39
12.50	4	SLE Q	5	10	0.00	-93777.40	-773.09	-3019.66	0.00	49.76	32.80	467.23
12.50	2	SLE R	5	10	0.00	-107034.00	-709.99	-3454.29	0.00	49.76	37.05	528.39
12.50	4	SLE Q	5	10	0.00	-93777.40	-773.09	-3019.66	0.00	49.76	32.80	467.23
15.00	2	SLE R	5	10	250.00	-104972.00	75.70	2841.75	0.00	49.76	33.46	482.26
15.00	4	SLE Q	5	10	250.00	-91714.90	192.22	2469.39	0.00	49.76	29.50	424.68
15.50	2	SLE R	6	7	0.00	-86270.10	426.90	-3461.23	0.00	49.76	36.38	514.69
15.50	4	SLE Q	6	7	0.00	-75300.50	245.48	-3008.04	0.00	49.76	31.29	443.61
15.50	2	SLE R	6	7	0.00	-86270.10	426.90	-3461.23	0.00	45.74	36.93	522.56
15.50	4	SLE Q	6	7	0.00	-75300.50	245.48	-3008.04	0.00	45.74	31.76	450.47
18.00	2	SLE R	6	7	250.00	-84551.30	-570.60	2721.30	0.00	45.74	34.69	493.39
18.00	4	SLE Q	6	7	250.00	-73581.80	-385.87	2371.67	0.00	45.74	29.82	425.01
18.50	2	SLE R	7	7	0.00	-64825.60	1148.04	-3707.37	0.00	45.74	33.84	467.37
18.50	4	SLE Q	7	7	0.00	-56303.30	835.57	-3214.34	0.00	45.74	28.83	399.16
18.50	2	SLE R	7	7	0.00	-64825.60	1148.04	-3707.37	0.00	45.74	33.84	467.37
18.50	4	SLE Q	7	7	0.00	-56303.30	835.57	-3214.34	0.00	45.74	28.83	399.16
21.00	2	SLE R	7	7	250.00	-63106.90	-1068.49	2805.45	0.00	45.74	30.36	423.12
21.00	4	SLE Q	7	7	250.00	-54584.50	-798.98	2413.51	0.00	45.74	25.81	360.41
21.50	2	SLE R	8	7	0.00	-42597.90	1578.42	-3687.13	3.14	42.60	28.91	388.89
21.50	4	SLE Q	8	7	0.00	-36657.00	1195.90	-3236.26	3.14	42.60	24.50	330.09
21.50	2	SLE R	8	7	0.00	-42597.90	1578.42	-3687.13	3.14	40.72	29.08	391.29
21.50	4	SLE Q	8	7	0.00	-36657.00	1195.90	-3236.26	3.14	40.72	24.64	332.14
24.00	2	SLE R	8	7	250.00	-40879.10	-1226.44	2764.01	0.00	43.86	24.45	333.12
24.00	4	SLE Q	8	7	250.00	-34938.20	-932.60	2497.45	0.00	43.86	20.92	285.05
24.50	2	SLE R	9	7	0.00	-19817.70	2519.59	-3654.99	17.25	26.61	30.89	387.63

Relazione di calcolo

24.50	4	SLE Q	9	7	0.00	-16551.40	1958.84	-3055.01	20.39	23.47	25.01	314.60
24.50	2	SLE R	9	7	0.00	-19817.70	2519.59	-3654.99	17.25	26.61	30.89	387.63
24.50	4	SLE Q	9	7	0.00	-16551.40	1958.84	-3055.01	20.39	23.47	25.01	314.60
27.00	2	SLE R	9	7	250.00	-18099.00	-2537.31	2947.58	17.25	26.61	27.52	345.88
27.00	4	SLE Q	9	7	250.00	-14832.60	-1989.03	2172.04	17.25	26.61	20.83	263.24

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 _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.50	4	SLE Q	9	7	0.00	-16551.40	-3055.01	1958.84	63.25	138.59	0.50	18.86	197.98	3.14	119.03	229.73	0.07	0.02
24.50	3	SLE F	9	7	0.00	-17426.30	-3227.96	2112.61	63.25	138.59	0.50	18.86	198.61	3.14	120.08	247.82	0.07	0.02
24.50	4	SLE Q	9	7	0.00	-16551.40	-3055.01	1958.84	63.25	138.59	0.50	18.86	197.98	3.14	119.03	229.73	0.07	0.02
24.50	3	SLE F	9	7	0.00	-17426.30	-3227.96	2112.61	63.25	138.59	0.50	18.86	198.61	3.14	120.08	247.82	0.07	0.02
27.00	4	SLE Q	9	7	250.00	-14832.60	2172.04	-1989.03	63.25	138.59	0.50	18.86	190.42	3.14	106.45	174.61	0.05	0.02
27.00	3	SLE F	9	7	250.00	-15707.60	2397.38	-2136.97	63.25	138.59	0.50	18.86	192.54	3.14	109.97	196.77	0.06	0.02

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <cm>	X1 <cm>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic
0.00	0.50	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	84.81	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	1842.20	2.50	0.00	57709.10	107066.00	51938.20	28.
0.50	2.50	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	84.81	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	1842.20	2.50	0.00	57709.10	107066.00	51938.20	28.
2.50	3.00	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	84.81	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	1842.20	2.50	0.00	57709.10	107066.00	51938.20	28.
3.50	3.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	321.65	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2760.72	2.50	0.00	44432.50	82434.00	39989.30	14.
3.95	5.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	321.65	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2760.72	2.50	0.00	44432.50	82434.00	39989.30	14.
5.55	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	321.65	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2760.72	2.50	0.00	44432.50	82434.00	39989.30	14.
6.50	6.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	520.07	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2977.13	2.50	0.00	44432.50	82434.00	39989.30	13.
6.95	8.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	520.07	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2977.13	2.50	0.00	44432.50	82434.00	39989.30	13.
8.55	9.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	520.07	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2977.13	2.50	0.00	44432.50	82434.00	39989.30	13.
9.50	9.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	752.71	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2939.77	2.50	0.00	44432.50	82434.00	39989.30	13.
9.95	11.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	752.71	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2939.77	2.50	0.00	44432.50	82434.00	39989.30	13.
11.55	12.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	752.71	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2939.77	2.50	0.00	44432.50	82434.00	39989.30	13.
12.50	12.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	344.34	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3377.15	2.50	0.00	44432.50	82434.00	39989.30	11.
12.95	14.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	344.34	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3377.15	2.50	0.00	44432.50	82434.00	39989.30	11.
14.55	15.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	344.34	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3377.15	2.50	0.00	44432.50	82434.00	39989.30	11.
15.50	15.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	627.40	2.50	0.00	40007.00	68038.20	36006.30	0.50	0.50	3320.39	2.50	0.00	44432.50	68695.00	39989.30	12.
15.95	17.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	627.40	2.50	0.00	40007.00	68038.20	36006.30	0.50	0.50	3320.39	2.50	0.00	44432.50	68695.00	39989.30	12.
17.55	18.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	627.40	2.50	0.00	40007.00	68038.20	36006.30	0.50	0.50	3320.39	2.50	0.00	44432.50	68695.00	39989.30	12.
18.50	18.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1318.48	2.50	0.00	40007.00	67008.10	36006.30	0.50	0.50	3503.67	2.50	0.00	44432.50	67655.00	39989.30	11.
18.95	20.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1318.48	2.50	0.00	40007.00	66951.70	36006.30	0.50	0.50	3503.67	2.50	0.00	44432.50	67598.00	39989.30	11.
20.55	21.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1318.48	2.50	0.00	40007.00	66751.10	36006.30	0.50	0.50	3503.67	2.50	0.00	44432.50	67395.50	39989.30	11.
21.50	21.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1646.96	2.50	0.00	40007.00	62701.10	36006.30	0.50	0.50	3453.45	2.50	0.00	44432.50	63306.50	39989.30	11.
21.95	23.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1646.96	2.50	0.00	40007.00	62644.70	36006.30	0.50	0.50	3453.45	2.50	0.00	44432.50	63249.50	39989.30	11.
23.55	24.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	1646.96	2.50	0.00	40007.00	62444.10	36006.30	0.50	0.50	3453.45	2.50	0.00	44432.50	63047.00	39989.30	11.
24.50	24.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	2923.65	2.50	0.00	40007.00	58285.60	36006.30	0.50	0.50	3607.79	2.50	0.00	44432.50	58848.30	39989.30	11.
24.95	26.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	2923.65	2.50	0.00	40007.00	58229.20	36006.30	0.50	0.50	3607.79	2.50	0.00	44432.50	58791.30	39989.30	11.
26.55	27.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.45	2923.65	2.50	0.00	40007.00	58028.60	36006.30	0.50	0.50	3607.79	2.50	0.00	44432.50	58588.80	39989.30	11.

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/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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm>	Fcd <daN/cm>	Fyk <daN/cm>	Fyd <daN/cm>
60.00	70.00	249.00	141.10	4500.00	3913.04
60.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	esp.	Sic.	Δ%
<cm>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>			
0.00	1(e)	SLU	1	1	0.00	-223627.00	-814.88	-4472.54	-25.08	-4472.54	-797776.00	-80279.90	-67199.80	1.15	3.567	129.68
0.00	1(e)	SLU	1	1	0.00	-223627.00	-814.88	-4472.54	-25.08	-4472.54	-797776.00	-80279.90	-67199.80	1.15	3.567	129.68
3.00	1(e)	SLU	1	1	300.00	-219532.00	2586.04	4390.64	29.27	4390.64	-797776.00	80130.80	67044.50	1.15	3.634	129.68
3.50	1(e)	SLU	2	10	0.00	-195123.00	-2567.54	-3902.46	-228.47	-3902.46	-670786.00	-53432.80	-59630.50	1.16	3.438	187.26
3.50	1(e)	SLU	2	10	0.00	-195123.00	-2567.54	-3902.46	-228.47	-3902.46	-670786.00	-53432.80	-59630.50	1.16	3.438	187.26
6.00	1(e)	SLU	2	10	250.00	-192442.00	2067.14	3848.83	401.62	3848.83	-670786.00	53423.30	59648.40	1.16	3.486	170.05
6.50	1(e)	SLU	3	10	0.00	-167632.00	-2732.33	-3352.64	-655.30	-3352.64	-670786.00	-52976.20	-58964.50	1.12	4.002	157.57
6.50	1(e)	SLU	3	10	0.00	-167632.00	-2732.33	-3352.64	-655.30	-3352.64	-670786.00	-52976.20	-58964.50	1.12	4.002	157.57
9.00	1(e)	SLU	3	10	250.00	-164951.00	1858.23	3299.02	680.91	3299.02	-670786.00	52887.50	58865.90	1.12	4.067	157.57
9.50	1(e)	SLU	4	10	0.00	-139511.00	-3020.83	-3020.83	-1159.05	-2790.22	-670786.00	-51961.90	-57843.50	1.09	4.808	157.57
9.50	1(e)	SLU	4	10	0.00	-139511.00	-3020.83	-3020.83	-1159.05	-2790.22	-656377.00	-51764.30	-55953.70	1.09	4.405	166.79
12.00	1(e)	SLU	4	10	250.00	-136830.00	2850.40	2850.40	1153.93	2736.60	-656377.00	51644.70	5844.10	1.09	4.797	166.79
12.50	1(e)	SLU	5	10	0.00	-110942.00	-1586.43	-2218.85	-237.92	-2218.85	-246024.00	-13345.90	-13877.90	1.29	2.218	---
12.50	1(e)	SLU	5	10	0.00	-110942.00	-1586.43	-2218.85	-237.92	-2218.85	-246024.00	-13345.90	-13877.90	1.29	2.218	---
15.00	1(e)	SLU	5	10	250.00	-109805.00	1794.23	2196.10	40.08	2196.10	-246024.00	13405.80	13925.80	1.29	2.241	---
18.50	1(e)	SLU	7	7	0.00	-63208.60	-2243.16	-2243.16	569.89	1264.17	-180916.00	-10025.20	8399.37	1.21	2.862	---
18.50	1(e)	SLU	7	7	0.00	-63208.60	-2243.16	-2243.16	569.89	1264.17	-180916.00	-10025.20	8399.37	1.21	2.862	---
21.00	1(e)	SLU	7	7	250.00	-62355.50	1699.40	1699.40	-514.62	-1247.11	-180916.00	10003.20	-8380.46	1.20	2.901	---
21.50	1	SLU	8	7	0.00	-41593.00	-2129.07	-2129.07	840.22	840.22	-41593.90	-8921.73	7453.35	1.11	3.409	---
21.50	1	SLU	8	7	0.00	-41593.00	-2129.07	-2129.07	840.22	840.22	-41593.90	-8079.22	6779.72	1.12	3.094	---
24.00	1(e)	SLU	8	7	250.00	-40739.90	1466.63	1466.63	-694.06	-814.80	-40741.30	8012.89	-6722.73	1.11	4.045	---
24.50	1	SLU	9	7	0.00	-20921.90	-2601.38	-2601.38	1055.20	1055.20	-20922.20	-5962.33	4981.61	1.02	1.571	---
24.50	1	SLU	9	7	0.00	-20921.90	-2601.38	-2601.38	1055.20	1055.20	-20922.20	-5962.33	4981.61	1.02	1.571	---
27.00	1	SLU	9	7	250.00	-20068.70	2619.02	2619.02	-825.30	-825.30	-20069.10	5859.31	-4896.23	1.01	1.647	---

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	20.21	50.07	---	1	3.50	20.21	50.07	---	1	3.50	20.21	50.07	---	2	3.00	18.90	47.46
---	2	3.00	18.90	47.46	---	2	3.00	18.90	47.46	---	3	3.00	18.90	51.24	---	3	3.00	18.90	51.24
---	3	3.00	18.90	51.24	---	6	3.00	34.64	33.31	---	6	3.00	34.64	33.31	---	6	3.00	34.64	33.31

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

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdy,s	MRdz	MRdz,s	esp.	Sic.	Δ%
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>			
15.50	1(e)	SLU	6	7	0.00	-86079.90	-2216.40	-2216.40	184.39	1721.60	-195325.00	-11114.10	-9852.55	8097.64	6639.69	1.28	2.269	---
15.50	1(e)	SLU	6	7	0.00	-86079.90	-2216.40	-2216.40	184.39	1721.60	-180916.00	-9441.09	-8242.48	7873.09	6485.90	1.31	2.102	---
18.00	1(e)	SLU	6	7	250.00	-85226.80	1656.65	1704.54	-265.15	-1704.54	-180916.00	9485.30	8284.24	-7908.20	-6523.89	1.31	2.123	---

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	-160912.00	-24.64	-594.18	0.00	53.78	33.15	495.20
0.00	4	SLE Q	1	1	0.00	-139721.00	-61.73	-444.72	0.00	53.78	28.75	429.47
0.00	2	SLE R	1	1	0.00	-160912.00	-24.64	-594.18	0.00	53.78	33.15	495.20
0.00	4	SLE Q	1	1	0.00	-139721.00	-61.73	-444.72	0.00	53.78	28.75	429.47
3.00	2	SLE R	1	1	300.00	-157762.00	32.75	1874.50	0.00	53.78	34.62	512.94
3.00	4	SLE Q	1	1	300.00	-136571.00	87.53	1450.39	0.00	53.78	29.81	441.85
3.50	2	SLE R	2	10	0.00	-140318.00	-188.46	-1862.39	0.00	53.78	39.42	577.62
3.50	4	SLE Q	2	10	0.00	-121609.00	-263.15	-1444.93	0.00	53.78	33.96	498.14
3.50	2	SLE R	2	10	0.00	-140318.00	-188.46	-1862.39	0.00	53.78	39.42	577.62
3.50	4	SLE Q	2	10	0.00	-121609.00	-263.15	-1444.93	0.00	53.78	33.96	498.14
6.00	2	SLE R	2	10	250.00	-138255.00	313.68	1499.31	0.00	53.78	38.27	562.17
6.00	4	SLE Q	2	10	250.00	-119546.00	354.77	1163.97	0.00	53.78	32.95	484.32
6.50	2	SLE R	3	10	0.00	-120510.00	-520.21	-1982.23	0.00	53.78	35.68	518.88
6.50	4	SLE Q	3	10	0.00	-104273.00	-564.61	-1534.69	0.00	53.78	30.67	446.57
6.50	2	SLE R	3	10	0.00	-120510.00	-520.21	-1982.23	0.00	53.78	35.68	518.88
6.50	4	SLE Q	3	10	0.00	-104273.00	-564.61	-1534.69	0.00	53.78	30.67	446.57
9.00	2	SLE R	3	10	250.00	-118448.00	529.74	1348.40	0.00	53.78	33.56	491.36
9.00	4	SLE Q	3	10	250.00	-102211.00	551.06	1047.29	0.00	53.78	28.88	423.05
9.50	2	SLE R	4	10	0.00	-100233.00	-906.60	-2190.74	0.00	53.78	32.18	462.87
9.50	4	SLE Q	4	10	0.00	-86478.60	-933.51	-1699.34	0.00	53.78	27.63	397.71
9.50	2	SLE R	4	10	0.00	-100233.00	-906.60	-2190.74	0.00	49.76	32.57	468.62
9.50	4	SLE Q	4	10	0.00	-86478.60	-933.51	-1699.34	0.00	49.76	27.97	402.73
12.00	2	SLE R	4	10	250.00	-98170.40	898.10	2068.62	0.00	49.76	31.73	456.82
12.00	4	SLE Q	4	10	250.00	-84416.10	916.48	1604.82	0.00	49.76	27.17	391.55
12.50	2	SLE R	5	10	0.00	-79621.00	-197.80	-1149.44	0.00	12.06	63.86	904.45
12.50	4	SLE Q	5	10	0.00	-68379.00	-239.31	-892.42	0.00	12.06	54.53	773.62
12.50	2	SLE R	5	10	0.00	-79621.00	-197.80	-1149.44	0.00	12.06	63.86	904.45
12.50	4	SLE Q	5	10	0.00	-68379.00	-239.31	-892.42	0.00	12.06	54.53	773.62
15.00	2	SLE R	5	10	250.00	-78746.00	56.36	1301.10	0.00	12.06	63.53	897.92
15.00	4	SLE Q	5	10	250.00	-67504.00	117.74	1005.79	0.00	12.06	53.99	764.95
15.50	2	SLE R	6	7	0.00	-61764.30	112.12	-1607.35	0.00	12.06	72.57	997.10
15.50	4	SLE Q	6	7	0.00	-52881.90	45.36	-1244.29	0.00	12.06	59.62	826.65
15.50	2	SLE R	6	7	0.00	-61764.30	112.12	-1607.35	0.00	8.04	76.76	1053.43
15.50	4	SLE Q	6	7	0.00	-52881.90	45.36	-1244.29	0.00	8.04	63.07	873.44
18.00	2	SLE R	6	7	250.00	-61108.10	-173.60	1201.84	0.00	8.04	71.61	994.07
18.00	4	SLE Q	6	7	250.00	-52225.60	-107.79	930.92	0.00	8.04	59.21	828.18
18.50	2	SLE R	7	7	0.00	-45359.00	384.39	-1626.87	0.00	8.04	67.47	892.12
18.50	4	SLE Q	7	7	0.00	-38667.60	270.62	-1258.67	0.00	8.04	54.82	731.50
18.50	2	SLE R	7	7	0.00	-45359.00	384.39	-1626.87	0.00	8.04	67.47	892.12
18.50	4	SLE Q	7	7	0.00	-38667.60	270.62	-1258.67	0.00	8.04	54.82	731.50
21.00	2	SLE R	7	7	250.00	-44702.70	-350.05	1232.16	0.00	8.04	60.91	818.22
21.00	4	SLE Q	7	7	250.00	-38011.40	-254.41	950.62	0.00	8.04	49.74	673.76
21.50	2	SLE R	8	7	0.00	-29852.20	575.76	-1544.96	0.00	8.04	56.35	714.48
21.50	4	SLE Q	8	7	0.00	-25203.40	429.26	-1198.28	0.00	8.04	45.09	576.73
21.50	2	SLE R	8	7	0.00	-29852.20	575.76	-1544.96	0.00	6.16	58.07	738.55
21.50	4	SLE Q	8	7	0.00	-25203.40	429.26	-1198.28	0.00	6.16	46.45	595.76
24.00	2	SLE R	8	7	250.00	-29195.90	-477.12	1065.63	0.00	6.16	48.84	635.49
24.00	4	SLE Q	8	7	250.00	-24547.20	-359.12	833.21	0.00	6.16	39.46	517.01
24.50	2	SLE R	9	7	0.00	-15020.40	727.43	-1885.63	3.08	3.08	67.94	755.34
24.50	4	SLE Q	9	7	0.00	-12300.00	552.46	-1450.79	3.08	3.08	51.24	577.77
24.50	2	SLE R	9	7	0.00	-15020.40	727.43	-1885.63	3.08	3.08	67.94	755.34
24.50	4	SLE Q	9	7	0.00	-12300.00	552.46	-1450.79	3.08	3.08	51.24	577.77
27.00	2	SLE R	9	7	250.00	-14364.20	-569.36	1893.26	3.08	3.08	63.91	709.95
27.00	4	SLE Q	9	7	250.00	-11643.70	-432.85	1435.49	3.08	3.08	47.72	538.15

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	-12300.00	-1450.79	552.46	39.00	208.00	0.50	14.00	125.57	1.54	52.31	418.88	0.12	0.03
24.50	3	SLE F	9	7	0.00	-13018.90	-1575.19	600.99	39.00	208.00	0.50	14.00	127.63	1.54	54.57	479.76	0.14	0.03

Relazione di calcolo

24.50	4	SLE Q	9	7	0.00	-12300.00	-1450.79	552.46	39.00	208.00	0.50	14.00	125.57	1.54	52.31	418.88	0.12	0.03
24.50	3	SLE F	9	7	0.00	-13018.90	-1575.19	600.99	39.00	208.00	0.50	14.00	127.63	1.54	54.57	479.76	0.14	0.03
27.00	4	SLE Q	9	7	250.00	-11643.70	1435.49	-432.85	39.00	208.00	0.50	14.00	131.25	1.54	58.56	399.48	0.12	0.03
27.00	3	SLE F	9	7	250.00	-12362.60	1566.52	-470.81	39.00	208.00	0.50	14.00	133.93	1.54	61.50	461.16	0.13	0.03

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

Xg <m>	Xl <m>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <cm>	d _r <m>	Vsdu _{y,z} <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _s <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	S
0.00	0.54	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	18.12	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	1133.64	2.50	0.00	57709.10	107066.00	51938.20	45
0.54	2.72	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	18.12	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	1133.64	2.50	0.00	57709.10	107066.00	51938.20	45
2.72	3.00	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	18.12	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	1133.64	2.50	0.00	57709.10	107066.00	51938.20	45
3.50	3.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	252.03	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1853.87	2.50	0.00	44432.50	82434.00	39989.30	21
3.96	5.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	252.03	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1853.87	2.50	0.00	44432.50	82434.00	39989.30	21
5.80	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	252.03	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1853.87	2.50	0.00	44432.50	82434.00	39989.30	21
6.50	6.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	534.49	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1836.22	2.50	0.00	44432.50	82434.00	39989.30	21
6.96	8.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	534.49	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1836.22	2.50	0.00	44432.50	82434.00	39989.30	21
8.80	9.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	534.49	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1836.22	2.50	0.00	44432.50	82434.00	39989.30	21
9.50	9.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	925.19	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2348.49	2.50	0.00	44432.50	82434.00	39989.30	17
9.96	11.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	925.19	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2348.49	2.50	0.00	44432.50	82434.00	39989.30	17
11.80	12.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	925.19	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2348.49	2.50	0.00	44432.50	82434.00	39989.30	17
12.50	12.96	ø6/15	2	2	---	1	SLU	0.35	0.35	111.20	2.34	8664.97	---	8664.97	8664.97	0.40	0.30	1352.26	2.50	7955.54	---	8091.89	7955.54	5
12.96	14.80	ø6/15	2	2	---	1	SLU	0.35	0.35	111.20	2.35	8709.10	---	8709.10	8709.10	0.40	0.30	1352.26	2.50	7955.54	---	8161.72	7955.54	5
14.80	15.00	ø6/15	2	2	---	1	SLU	0.35	0.35	111.20	2.39	8883.43	---	8883.43	8883.43	0.40	0.30	1352.26	2.50	7955.54	---	8441.03	7955.54	5
15.50	15.96	ø6/15	2	2	---	1	SLU	0.35	0.25	179.81	2.11	5587.33	---	5587.33	5587.33	0.30	0.30	1549.22	1.91	6085.59	---	6085.59	6085.59	3
15.96	17.80	ø6/15	2	2	---	1	SLU	0.35	0.25	179.81	2.12	5622.30	---	5622.31	5622.30	0.30	0.30	1549.22	1.92	6125.17	---	6125.17	6125.17	3
17.80	18.00	ø6/15	2	2	---	1	SLU	0.35	0.25	179.81	2.17	5760.09	---	5760.09	5760.09	0.30	0.30	1549.22	1.97	6280.99	---	6280.99	6280.99	4
18.50	18.96	ø6/15	2	2	---	1	SLU	0.35	0.25	433.81	2.50	6634.02	---	12395.10	6634.02	0.30	0.30	1577.02	2.50	7955.54	---	12740.70	7955.54	5
18.96	20.80	ø6/15	2	2	---	1	SLU	0.35	0.25	433.81	2.50	6634.02	---	12446.00	6634.02	0.30	0.30	1577.02	2.50	7955.54	---	12793.10	7955.54	5
20.80	21.00	ø6/15	2	2	---	1	SLU	0.35	0.25	433.81	2.50	6634.02	---	12649.80	6634.02	0.30	0.30	1577.02	2.50	7955.54	---	13002.60	7955.54	5
21.50	21.96	ø6/15	2	2	---	1	SLU	0.35	0.25	613.71	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1438.28	2.50	7955.54	---	16914.20	7955.54	5
21.96	23.80	ø6/15	2	2	---	1	SLU	0.35	0.25	613.71	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1438.28	2.50	7955.54	---	16914.20	7955.54	5
23.80	24.00	ø6/15	2	2	---	1	SLU	0.35	0.25	613.71	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1438.28	2.50	7955.54	---	16914.20	7955.54	5
24.50	24.96	ø6/15	2	2	---	1	SLU	0.35	0.25	752.20	2.50	6634.02	---	15880.50	6634.02	0.30	0.30	2088.16	2.50	7955.54	---	16323.40	7955.54	3
24.96	26.80	ø6/15	2	2	---	1	SLU	0.35	0.25	752.20	2.50	6634.02	---	15860.10	6634.02	0.30	0.30	2088.16	2.50	7955.54	---	16302.40	7955.54	3
26.80	27.00	ø6/15	2	2	---	1	SLU	0.35	0.25	752.20	2.50	6634.02	---	15778.60	6634.02	0.30	0.30	2088.16	2.50	7955.54	---	16218.60	7955.54	3

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/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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm²>	Fcd <daN/cm²>	Fyk <daN/cm²>	Fyd <daN/cm²>
60.00	70.00	249.00	141.10	4500.00	3913.04
60.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

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>	esp.	Sic.	Δs
0.00	1(e)	SLU	1	1	0.00	-205224.00	-485.11	-4104.48	-550.83	-4104.48	-797776.00	-79566.90	-66468.10	1.13	3.887	129.68
0.00	1(e)	SLU	1	1	0.00	-205224.00	-485.11	-4104.48	-550.83	-4104.48	-797776.00	-79566.90	-66468.10	1.13	3.887	129.68
3.00	1(e)	SLU	1	1	300.00	-201129.00	2033.16	4022.58	915.21	4022.58	-797776.00	79393.50	66293.10	1.13	3.966	129.68
3.50	1(e)	SLU	2	10	0.00	-178984.00	-1995.45	-3579.69	-1650.51	-3579.69	-670786.00	-53333.00	-59359.90	1.14	3.748	157.57
3.50	1(e)	SLU	2	10	0.00	-178984.00	-1995.45	-3579.69	-1650.51	-3579.69	-670786.00	-53333.00	-59359.90	1.14	3.748	157.57
6.00	1(e)	SLU	2	10	250.00	-176303.00	1622.81	3526.06	1517.71	3526.06	-670786.00	53251.90	59270.00	1.14	3.805	157.57
6.50	1(e)	SLU	3	10	0.00	-155240.00	-2085.27	-3104.80	-2245.26	-3104.80	-670786.00	-52550.20	-58493.00	1.11	4.321	157.57
6.50	1(e)	SLU	3	10	0.00	-155240.00	-2085.27	-3104.80	-2245.26	-3104.80	-670786.00	-52550.20	-58493.00	1.11	4.321	157.57
9.00	1(e)	SLU	3	10	250.00	-152559.00	1459.04	3051.17	1933.98	3051.17	-670786.00	52453.90	58386.10	1.11	4.397	157.57
9.50	1(e)	SLU	4	10	0.00	-132367.00	-2271.70	-2647.34	-2947.58	-2947.58	-670786.00	-51679.60	-57532.10	1.08	5.068	157.57
9.50	1(e)	SLU	4	10	0.00	-132367.00	-2271.70	-2647.34	-2947.58	-2947.58	-656377.00	-51441.70	-55658.60	1.08	4.959	166.79
12.00	1(e)	SLU	4	10	250.00	-129686.00	2153.53	2593.71	2563.04	2593.71	-656377.00	51318.10	55545.60	1.08	5.061	166.79
12.50	1(e)	SLU	5	10	0.00	-109391.00	-1296.85	-2187.83	-1006.16	-2187.83	-246024.00	-13427.60	-13943.30	1.29	2.249	---
12.50	1(e)	SLU	5	10	0.00	-109391.00	-1296.85	-2187.83	-1006.16	-2187.83	-231615.00	-11741.90	-13661.60	1.31	2.117	---
15.00	1(e)	SLU	5	10	250.00	-108254.00	1477.47	2165.08	929.85	2165.08	-231615.00	11790.90	13720.40	1.31	2.140	---
18.50	1(e)	SLU	7	7	0.00	-64754.30	-1881.79	-1881.79	-1071.36	-1295.09	-180916.00	-10061.80	-8431.30	1.21	2.794	---
18.50	1(e)	SLU	7	7	0.00	-64754.30	-1881.79	-1881.79	-1071.36	-1295.09	-174161.00	-9219.30	-7757.68	1.23	2.690	---
21.00	1(e)	SLU	7	7	250.00	-63901.10	1437.05	1437.05	862.39	1278.02	-174161.00	9200.18	7740.38	1.22	2.725	---

Relazione di calcolo

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdy, s <daNm>	MRdz <daNm>	MRdz, s <daNm>	esp.	Sic.	Δ%
15.50	1(e)	SLU	6	7	0.00	-86707.30	-1841.04	-1841.04	-743.31	-1734.15	-180916.00	-9408.12	-8211.63	-7846.88	-6457.25	1.32	2.087	---
15.50	1(e)	SLU	6	7	0.00	-86707.30	-1841.04	-1841.04	-743.31	-1734.15	-180916.00	-9408.12	-8211.63	-7846.88	-6457.25	1.32	2.087	---
18.00	1(e)	SLU	6	7	250.00	-85854.20	1373.31	1717.08	668.99	1717.08	-180916.00	9452.76	8253.53	7882.46	6495.83	1.31	2.107	---

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	-147342.00	-395.97	-353.23	0.00	53.78	30.77	458.51
0.00	4	SLE	Q	1	1	0.00	-128517.00	-297.24	-250.41	0.00	53.78	26.65	397.54
0.00	2	SLE	R	1	1	0.00	-147342.00	-395.97	-353.23	0.00	53.78	30.77	458.51
0.00	4	SLE	Q	1	1	0.00	-128517.00	-297.24	-250.41	0.00	53.78	26.65	397.54
3.00	2	SLE	R	1	1	300.00	-144192.00	658.48	1470.37	0.00	53.78	32.47	479.00
3.00	4	SLE	Q	1	1	300.00	-125367.00	484.39	1119.12	0.00	53.78	27.80	410.96
3.50	2	SLE	R	2	10	0.00	-128386.00	-1183.78	-1441.66	0.00	53.78	37.75	549.91
3.50	4	SLE	Q	2	10	0.00	-111675.00	-885.54	-1102.17	0.00	53.78	32.11	469.23
3.50	2	SLE	R	2	10	0.00	-128386.00	-1183.78	-1441.66	0.00	53.78	37.75	549.91
3.50	4	SLE	Q	2	10	0.00	-111675.00	-885.54	-1102.17	0.00	53.78	32.11	469.23
6.00	2	SLE	R	2	10	250.00	-126324.00	1087.00	1172.01	0.00	53.78	36.33	530.90
6.00	4	SLE	Q	2	10	250.00	-109613.00	830.59	897.07	0.00	53.78	30.95	453.52
6.50	2	SLE	R	3	10	0.00	-111288.00	-1612.28	-1509.11	0.00	53.78	34.77	502.24
6.50	4	SLE	Q	3	10	0.00	-96579.70	-1229.99	-1142.33	0.00	53.78	29.34	425.53
6.50	2	SLE	R	3	10	0.00	-111288.00	-1612.28	-1509.11	0.00	53.78	34.77	502.24
6.50	4	SLE	Q	3	10	0.00	-96579.70	-1229.99	-1142.33	0.00	53.78	29.34	425.53
9.00	2	SLE	R	3	10	250.00	-109226.00	1387.31	1054.89	0.00	53.78	32.56	473.56
9.00	4	SLE	Q	3	10	250.00	-94517.20	1073.05	807.92	0.00	53.78	27.61	402.68
9.50	2	SLE	R	4	10	0.00	-94801.60	-2115.25	-1642.32	0.00	53.78	32.27	461.10
9.50	4	SLE	Q	4	10	0.00	-81987.60	-1614.20	-1244.98	0.00	53.78	26.95	386.83
9.50	2	SLE	R	4	10	0.00	-94801.60	-2115.25	-1642.32	0.00	49.76	32.67	466.96
9.50	4	SLE	Q	4	10	0.00	-81987.60	-1614.20	-1244.98	0.00	49.76	27.29	391.82
12.00	2	SLE	R	4	10	250.00	-92739.10	1839.12	1558.70	0.00	49.76	31.29	448.41
12.00	4	SLE	Q	4	10	250.00	-79925.10	1398.72	1182.93	0.00	49.76	26.11	375.77
12.50	2	SLE	R	5	10	0.00	-78249.40	-719.03	-935.25	0.00	12.06	65.67	923.27
12.50	4	SLE	Q	5	10	0.00	-67347.00	-542.66	-713.50	0.00	12.06	54.88	776.32
12.50	2	SLE	R	5	10	0.00	-78249.40	-719.03	-935.25	0.00	8.04	68.21	959.04
12.50	4	SLE	Q	5	10	0.00	-67347.00	-542.66	-713.50	0.00	8.04	57.01	806.49
15.00	2	SLE	R	5	10	250.00	-77374.40	664.79	1067.07	0.00	8.04	68.55	960.17
15.00	4	SLE	Q	5	10	250.00	-66472.00	492.31	806.58	0.00	8.04	56.97	803.47
15.50	2	SLE	R	6	7	0.00	-62023.90	-531.21	-1329.66	0.00	8.04	80.02	1085.49
15.50	4	SLE	Q	6	7	0.00	-53202.70	-397.98	-1007.63	0.00	8.04	65.86	901.27
15.50	2	SLE	R	6	7	0.00	-62023.90	-531.21	-1329.66	0.00	8.04	80.02	1085.49
15.50	4	SLE	Q	6	7	0.00	-53202.70	-397.98	-1007.63	0.00	8.04	65.86	901.27
18.00	2	SLE	R	6	7	250.00	-61367.70	478.10	992.24	0.00	8.04	73.93	1017.09
18.00	4	SLE	Q	6	7	250.00	-52546.40	362.58	752.89	0.00	8.04	61.21	848.36
18.50	2	SLE	R	7	7	0.00	-46331.80	-765.78	-1359.28	0.00	8.04	70.86	928.48
18.50	4	SLE	Q	7	7	0.00	-39541.80	-587.24	-1031.83	0.00	8.04	57.62	761.83
18.50	2	SLE	R	7	7	0.00	-46331.80	-765.78	-1359.28	0.00	6.16	72.91	957.60
18.50	4	SLE	Q	7	7	0.00	-39541.80	-587.24	-1031.83	0.00	6.16	59.27	785.36
21.00	2	SLE	R	7	7	250.00	-45675.60	616.49	1037.82	0.00	6.16	65.22	871.98
21.00	4	SLE	Q	7	7	250.00	-38885.50	474.73	785.88	0.00	6.16	53.29	718.13
21.50	2	SLE	R	8	7	0.00	-30842.10	-898.67	-1282.97	0.00	6.16	60.68	767.23
21.50	4	SLE	Q	8	7	0.00	-26040.40	-695.01	-975.51	0.00	6.16	48.50	618.38
21.50	2	SLE	R	8	7	0.00	-30842.10	-898.67	-1282.97	0.00	6.16	60.68	767.23
21.50	4	SLE	Q	8	7	0.00	-26040.40	-695.01	-975.51	0.00	6.16	48.50	618.38
24.00	2	SLE	R	8	7	250.00	-30185.90	704.32	860.45	0.00	6.16	50.62	656.03
24.00	4	SLE	Q	8	7	250.00	-25384.10	545.36	658.04	0.00	6.16	40.84	533.08
24.50	2	SLE	R	9	7	0.00	-15519.90	-975.49	-1616.58	3.08	3.08	66.84	751.07
24.50	4	SLE	Q	9	7	0.00	-12663.50	-758.78	-1224.69	1.54	4.62	50.45	573.75
24.50	2	SLE	R	9	7	0.00	-15519.90	-975.49	-1616.58	3.08	3.08	66.84	751.07
24.50	4	SLE	Q	9	7	0.00	-12663.50	-758.78	-1224.69	1.54	4.62	50.45	573.75
27.00	2	SLE	R	9	7	250.00	-14863.60	758.15	1717.15	3.08	3.08	63.62	714.97
27.00	4	SLE	Q	9	7	250.00	-12007.20	592.64	1290.52	3.08	3.08	47.73	543.11

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}	Wk <mm>
24.50	3	SLE F	9	7	0.00	-13412.30	-1336.83	-820.59	39.00	0.00	0.50	14.00	117.35	1.54	43.27	411.99	0.12	0.02
24.50	3	SLE F	9	7	0.00	-13412.30	-1336.83	-820.59	39.00	0.00	0.50	14.00	117.35	1.54	43.27	411.99	0.12	0.02
27.00	4	SLE Q	9	7	250.00	-12007.20	1290.52	592.64	39.00	208.00	0.50	14.00	118.90	1.54	44.97	351.28	0.10	0.02
27.00	3	SLE F	9	7	250.00	-12756.10	1412.58	640.17	39.00	208.00	0.50	14.00	120.97	1.54	47.25	404.97	0.12	0.02

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	
0.00	0.54	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	488.68	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	839.42	2.50	0.00	57709.10	107066.00	51938.20	6
0.54	2.72	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	488.68	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	839.42	2.50	0.00	57709.10	107066.00	51938.20	6
2.72	3.00	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	488.68	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	839.42	2.50	0.00	57709.10	107066.00	51938.20	6
3.50	3.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1267.29	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1447.30	2.50	0.00	44432.50	82434.00	39989.30	2
3.96	5.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1267.29	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1447.30	2.50	0.00	44432.50	82434.00	39989.30	2
5.80	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1267.29	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1447.30	2.50	0.00	44432.50	82434.00	39989.30	2
6.50	6.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1671.70	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1417.72	2.50	0.00	44432.50	82434.00	39989.30	2

Relazione di calcolo

6.96	8.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1671.70	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1417.72	2.50	0.00	44432.50	82434.00	39989.30	2
8.80	9.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1671.70	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1417.72	2.50	0.00	44432.50	82434.00	39989.30	2
9.50	9.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2204.25	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1770.09	2.50	0.00	44432.50	82434.00	39989.30	1
9.96	11.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2204.25	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1770.09	2.50	0.00	44432.50	82434.00	39989.30	1
11.80	12.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2204.25	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	1770.09	2.50	0.00	44432.50	82434.00	39989.30	1
12.50	12.96	ø6/15	2	2	----	1	SLU	0.35	0.35	774.40	2.42	8986.89	----	8986.89	8986.89	0.40	0.30	1109.73	2.50	7955.54	----	8609.40	7955.54	----
12.96	14.80	ø6/15	2	2	----	1	SLU	0.35	0.35	774.40	2.43	9029.44	----	9029.44	9029.44	0.40	0.30	1109.73	2.50	7955.54	----	8679.22	7955.54	----
14.80	15.00	ø6/15	2	2	----	1	SLU	0.35	0.35	774.40	2.48	9197.70	----	9197.70	9197.70	0.40	0.30	1109.73	2.50	7955.54	----	8958.53	7955.54	----
15.50	15.96	ø6/15	2	2	----	1	SLU	0.35	0.25	564.92	2.05	5445.29	----	5445.29	5445.29	0.30	0.30	1285.74	1.86	5924.76	----	5924.76	5924.76	----
15.96	17.80	ø6/15	2	2	----	1	SLU	0.35	0.25	564.92	2.07	5481.17	----	5481.17	5481.17	0.30	0.30	1285.74	1.87	5965.41	----	5965.41	5965.41	----
17.80	18.00	ø6/15	2	2	----	1	SLU	0.35	0.25	564.92	2.12	5622.41	----	5622.41	5622.41	0.30	0.30	1285.74	1.92	6125.29	----	6125.29	6125.29	----
18.50	18.96	ø6/15	2	2	----	1	SLU	0.35	0.25	773.50	2.50	6634.02	----	11893.40	6634.02	0.30	0.30	1327.54	2.50	7955.54	----	12225.10	7955.54	----
18.96	20.80	ø6/15	2	2	----	1	SLU	0.35	0.25	773.50	2.50	6634.02	----	11944.30	6634.02	0.30	0.30	1327.54	2.50	7955.54	----	12277.50	7955.54	----
20.80	21.00	ø6/15	2	2	----	1	SLU	0.35	0.25	773.50	2.50	6634.02	----	12148.10	6634.02	0.30	0.30	1327.54	2.50	7955.54	----	12486.90	7955.54	----
21.50	21.96	ø6/15	2	2	----	1	SLU	0.35	0.25	896.74	2.50	6634.02	----	16455.30	6634.02	0.30	0.30	1186.35	2.50	7955.54	----	16914.20	7955.54	----
21.96	23.80	ø6/15	2	2	----	1	SLU	0.35	0.25	896.74	2.50	6634.02	----	16455.30	6634.02	0.30	0.30	1186.35	2.50	7955.54	----	16914.20	7955.54	----
23.80	24.00	ø6/15	2	2	----	1	SLU	0.35	0.25	896.74	2.50	6634.02	----	16455.30	6634.02	0.30	0.30	1186.35	2.50	7955.54	----	16914.20	7955.54	----
24.50	24.96	ø6/15	2	2	----	1	SLU	0.35	0.25	969.00	2.50	6634.02	----	15977.90	6634.02	0.30	0.30	1847.43	2.50	7955.54	----	16423.50	7955.54	----
24.96	26.80	ø6/15	2	2	----	1	SLU	0.35	0.25	969.00	2.50	6634.02	----	15957.60	6634.02	0.30	0.30	1847.43	2.50	7955.54	----	16402.60	7955.54	----
26.80	27.00	ø6/15	2	2	----	1	SLU	0.35	0.25	969.00	2.50	6634.02	----	15876.00	6634.02	0.30	0.30	1847.43	2.50	7955.54	----	16318.80	7955.54	----

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>
59R		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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm²>	Fcd <daN/cm²>	Fyk <daN/cm²>	Fyd <daN/cm²>
45.00	70.00	249.00	141.10	4500.00	3913.04
45.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione con rinforzi

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>	esp.	Sic.	Δ%
0.00	1(e)	SLU	1	59	0.00	-103778.00	727.59	2075.57	-922.90	-2075.57	-624855.00	61636.00	-37021.30	1.06	6.021	192.07
0.00	1(e)	SLU	1	59	0.00	-103778.00	727.59	2075.57	-922.90	-2075.57	-624855.00	61636.00	-37021.30	1.06	6.021	192.07
3.00	1(e)	SLU	1	59	300.00	-100707.00	-346.86	-2014.14	1511.74	2014.14	-624855.00	-61346.60	36850.70	1.05	6.205	192.07
3.50	1(e)	SLU	2	9	0.00	-91014.50	439.99	1820.29	-2487.84	-2487.84	-529612.00	42676.70	-33449.00	1.06	5.819	429.47
3.50	1(e)	SLU	2	9	0.00	-91014.50	439.99	1820.29	-2487.84	-2487.84	-539969.00	43727.90	-34732.50	1.06	5.933	280.84
6.00	1(e)	SLU	2	9	250.00	-89003.60	-324.65	-1780.07	2096.59	2096.59	-539969.00	-43660.40	34667.50	1.05	6.067	221.11
6.50	1(e)	SLU	3	9	0.00	-78462.30	483.46	1569.25	-2855.37	-2855.37	-539969.00	43179.30	-34317.80	1.04	6.882	338.36
6.50	1(e)	SLU	3	9	0.00	-78462.30	483.46	1569.25	-2855.37	-2855.37	-539969.00	43179.30	-34317.80	1.04	6.882	338.36
9.00	1(e)	SLU	3	9	250.00	-76451.30	-318.34	-1529.03	2358.78	2358.78	-539969.00	-43042.80	34249.50	1.03	7.063	263.95
9.50	1(e)	SLU	4	9	0.00	-65016.20	672.13	1300.32	-3824.05	-3824.05	-65018.00	42241.10	-33498.60	1.02	7.193	442.12
9.50	1(e)	SLU	4	9	0.00	-65016.20	672.13	1300.32	-3824.05	-3824.05	-65018.00	42241.10	-33498.60	1.02	7.193	442.12
12.00	1(e)	SLU	4	9	250.00	-63005.30	-638.53	-1260.11	3626.52	3626.52	-63008.60	-42096.30	33362.70	1.01	7.468	421.86
15.50	1(e)	SLU	6	9	0.00	-42158.10	145.37	843.16	-1331.17	-1331.17	-169976.00	8722.54	-6840.11	1.12	4.032	----
15.50	1(e)	SLU	6	9	0.00	-42158.10	145.37	843.16	-1331.17	-1331.17	-155566.00	8544.26	-5716.18	1.14	3.690	----
18.00	1(e)	SLU	6	9	250.00	-41447.20	-112.04	-828.94	1114.07	1114.07	-155566.00	-8504.05	5687.04	1.14	3.753	----
18.50	1(e)	SLU	7	9	0.00	-31846.70	93.84	636.93	-1585.22	-1585.22	-31848.50	7822.78	-5162.94	1.09	2.921	----
18.50	1(e)	SLU	7	9	0.00	-31846.70	93.84	636.93	-1585.22	-1585.22	-31848.50	7822.78	-5162.94	1.09	2.921	----
21.00	1(e)	SLU	7	9	250.00	-31135.70	-59.78	-622.71	1301.68	1301.68	-31139.10	-7761.77	5116.60	1.08	3.425	----
21.50	1(e)	SLU	8	9	0.00	-21121.10	110.38	422.42	-1779.78	-1779.78	-21124.10	6712.34	-4423.88	1.03	2.225	----
21.50	1(e)	SLU	8	9	0.00	-21121.10	110.38	422.42	-1779.78	-1779.78	-21121.80	5878.46	-3921.71	1.03	1.972	----
24.00	1(e)	SLU	8	9	250.00	-20410.20	-135.03	-408.20	1427.92	1427.92	-20412.80	-5795.51	3869.24	1.03	2.366	----
24.50	1(e)	SLU	9	9	0.00	-10092.40	63.42	201.85	-1958.22	-1958.22	-10096.60	4521.03	-3054.37	1.00	1.458	----
24.50	1(e)	SLU	9	9	0.00	-10092.40	63.42	201.85	-1958.22	-1958.22	-10096.60	4521.03	-3054.37	1.00	1.458	----
27.00	1(e)	SLU	9	9	250.00	-9381.47	151.73	187.63	1614.26	1614.26	-9383.55	4428.82	2996.28	1.00	1.721	----

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	26.94	63.84	----	1	3.50	26.94	63.84	----	1	3.50	26.94	63.84	----	2	3.00	23.09	60.31
----	2	3.00	23.09	60.31	----	2	3.00	23.09	60.31	----	3	3.00	23.09	65.01	----	3	3.00	23.09	65.01
----	3	3.00	23.09	65.01	----	4	3.00	23.09	71.52	----	4	3.00	23.09	71.52	----	4	3.00	23.09	71.52
----	5	3.00	41.57	39.16	----	5	3.00	41.57	39.16	----	5	3.00	41.57	39.16	----				

Stato limite ultimo - Verifiche a flessione/presoflessione - Controlli di stabilità con rinforzi

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdy,s <daNm>	MRdz <daNm>	MRdz,s <daNm>	esp.	Sic.	Δ%
12.50	1(e)	SLU	5	9	0.00	-52004.50	113.74	1040.09	-840.01	-1040.09	-169976.00	8944.48	8137.03	-7130.81	-5984.54	1.17	3.268	----
12.50	1(e)	SLU	5	9	0.00	-52004.50	113.74	1040.09	-840.01	-1040.09	-169976.00	8944.48	8137.03	-7130.81	-5984.54	1.17	3.268	----
15.00	1(e)	SLU	5	9	250.00	-51293.60	-124.14	-1025.87	832.42	1025.87	-169976.00	-8931.22	-8129.34	7115.87	5995.83	1.17	3.314	----

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	59	0.00	-74982.30	-653.75	534.96	0.00	46.87	22.81	332.65
0.00	4	SLE	Q	1	59	0.00	-67684.20	-575.08	465.33	0.00	46.87	20.50	299.19
0.00	2	SLE	R	1	59	0.00	-74982.30	-653.75	534.96	0.00	46.87	22.81	332.65

Relazione di calcolo

0.00	4	SLE Q	1	59	0.00	-67684.20	-575.08	465.33	0.00	46.87	20.50	299.19
3.00	2	SLE R	1	59	300.00	-72619.80	1071.04	-269.20	0.00	46.87	23.06	333.08
3.00	4	SLE Q	1	59	300.00	-65321.70	938.51	-285.26	0.00	46.87	20.75	299.76
3.50	2	SLE R	2	9	0.00	-65657.70	-1761.65	340.24	0.00	46.87	29.04	409.38
3.50	4	SLE Q	2	9	0.00	-59019.70	-1530.87	334.48	0.00	46.87	25.98	366.59
3.50	2	SLE R	2	9	0.00	-65657.70	-1761.65	340.24	0.00	49.76	28.67	404.14
3.50	4	SLE Q	2	9	0.00	-59019.70	-1530.87	334.48	0.00	49.76	25.65	361.90
6.00	2	SLE R	2	9	250.00	-64110.90	1484.68	-253.83	0.00	49.76	26.78	380.14
6.00	4	SLE Q	2	9	250.00	-57472.80	1280.58	-253.78	0.00	49.76	23.89	339.41
6.50	2	SLE R	3	9	0.00	-56552.80	-2023.64	368.87	0.00	49.76	27.00	375.50
6.50	4	SLE Q	3	9	0.00	-50700.00	-1726.57	374.28	0.00	49.76	23.99	334.18
6.50	2	SLE R	3	9	0.00	-56552.80	-2023.64	368.87	0.00	49.76	27.00	375.50
6.50	4	SLE Q	3	9	0.00	-50700.00	-1726.57	374.28	0.00	49.76	23.99	334.18
9.00	2	SLE R	3	9	250.00	-55005.90	1671.38	-245.64	0.00	49.76	24.69	346.40
9.00	4	SLE Q	3	9	250.00	-49153.10	1421.73	-244.42	0.00	49.76	21.85	307.09
9.50	2	SLE R	4	9	0.00	-46813.90	-2709.57	508.22	0.00	49.76	27.23	368.75
9.50	4	SLE Q	4	9	0.00	-41868.30	-2294.13	493.58	0.00	49.76	23.95	325.15
9.50	2	SLE R	4	9	0.00	-46813.90	-2709.57	508.22	0.00	49.76	27.23	368.75
9.50	4	SLE Q	4	9	0.00	-41868.30	-2294.13	493.58	0.00	49.76	23.95	325.15
12.00	2	SLE R	4	9	250.00	-45267.00	2569.74	-481.02	0.00	49.76	26.09	353.73
12.00	4	SLE Q	4	9	250.00	-40321.40	2176.18	-465.29	0.00	49.76	22.90	311.14
12.50	2	SLE R	5	9	0.00	-37385.50	-594.17	92.86	0.00	12.06	50.02	670.27
12.50	4	SLE Q	5	9	0.00	-33301.50	-503.17	104.46	0.00	12.06	44.33	595.48
12.50	2	SLE R	5	9	0.00	-37385.50	-594.17	92.86	0.00	12.06	50.02	670.27
12.50	4	SLE Q	5	9	0.00	-33301.50	-503.17	104.46	0.00	12.06	44.33	595.48
15.00	2	SLE R	5	9	250.00	-36838.70	588.63	-100.55	0.00	12.06	49.50	662.71
15.00	4	SLE Q	5	9	250.00	-32754.60	497.33	-120.56	0.00	12.06	43.94	589.34
15.50	2	SLE R	6	9	0.00	-30300.80	-941.30	121.39	0.00	12.06	51.44	646.43
15.50	4	SLE Q	6	9	0.00	-26896.60	-793.21	154.91	0.00	12.06	45.48	573.35
15.50	2	SLE R	6	9	0.00	-30300.80	-941.30	121.39	0.00	8.04	54.62	686.01
15.50	4	SLE Q	6	9	0.00	-26896.60	-793.21	154.91	0.00	8.04	48.24	607.88
18.00	2	SLE R	6	9	250.00	-29753.90	787.97	-92.88	0.00	8.04	49.99	638.85
18.00	4	SLE Q	6	9	250.00	-26349.80	662.80	-115.71	0.00	8.04	43.98	563.90
18.50	2	SLE R	7	9	0.00	-22888.30	-1121.62	83.00	0.00	8.04	51.15	609.93
18.50	4	SLE Q	7	9	0.00	-20219.70	-940.47	117.18	0.00	8.04	44.58	534.68
18.50	2	SLE R	7	9	0.00	-22888.30	-1121.62	83.00	0.00	8.04	51.15	609.93
18.50	4	SLE Q	7	9	0.00	-20219.70	-940.47	117.18	0.00	8.04	44.58	534.68
21.00	2	SLE R	7	9	250.00	-22341.40	921.14	-55.28	0.00	8.04	45.09	550.00
21.00	4	SLE Q	7	9	250.00	-19672.80	771.08	-85.50	0.00	8.04	39.35	481.93
21.50	2	SLE R	8	9	0.00	-15183.10	-1259.88	94.34	4.02	4.02	53.35	559.95
21.50	4	SLE Q	8	9	0.00	-13307.50	-1052.70	122.00	4.02	4.02	45.46	485.04
21.50	2	SLE R	8	9	0.00	-15183.10	-1259.88	94.34	3.08	3.08	55.81	586.28
21.50	4	SLE Q	8	9	0.00	-13307.50	-1052.70	122.00	3.08	3.08	47.47	507.51
24.00	2	SLE R	8	9	250.00	-14636.20	1010.92	-108.30	3.08	3.08	45.10	502.99
24.00	4	SLE Q	8	9	250.00	-12760.60	844.03	-117.58	3.08	3.08	38.32	432.08
24.50	2	SLE R	9	9	0.00	-7263.64	-1386.86	62.10	3.08	3.08	67.65	1349.50
24.50	4	SLE Q	9	9	0.00	-6227.43	-1144.93	108.69	3.08	3.08	57.81	1105.23
24.50	2	SLE R	9	9	0.00	-7263.64	-1386.86	62.10	3.08	3.08	67.65	1349.50
24.50	4	SLE Q	9	9	0.00	-6227.43	-1144.93	108.69	3.08	3.08	57.81	1105.23
27.00	2	SLE R	9	9	250.00	-6716.76	1143.33	92.35	3.08	3.08	56.72	1025.07
27.00	4	SLE Q	9	9	250.00	-5680.55	934.82	6.17	3.08	3.08	43.72	783.06

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	9	0.00	-6227.43	108.69	-1144.93	39.00	258.00	0.50	14.00	235.64	1.54	173.33	1105.23	0.32	0.13
24.50	3	SLE F	9	9	0.00	-6496.99	95.05	-1212.25	39.00	258.00	0.50	14.00	158.35	3.08	176.70	1175.58	0.34	0.09
24.50	4	SLE Q	9	9	0.00	-6227.43	108.69	-1144.93	39.00	258.00	0.50	14.00	235.64	1.54	173.33	1105.23	0.32	0.13
24.50	3	SLE F	9	9	0.00	-6496.99	95.05	-1212.25	39.00	258.00	0.50	14.00	158.35	3.08	176.70	1175.58	0.34	0.09
27.00	4	SLE Q	9	9	250.00	-5680.55	6.17	934.82	39.00	258.00	0.50	14.00	160.85	3.08	182.20	783.06	0.23	0.06
27.00	3	SLE F	9	9	250.00	-5950.11	31.07	992.12	39.00	258.00	0.50	14.00	159.29	3.08	178.78	851.93	0.25	0.07

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <mm>	X1 <mm>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <mm>	d _y <mm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <mm>	d _z <mm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic
0.00	0.50	ø8/20	2	2	ø8/10	1	SLU	0.70	0.40	811.55	2.50	0.00	35581.40	75997.90	32023.30	0.45	0.65	358.15	2.50	0.00	57709.10	79238.70	51938.20	39.4
0.50	2.50	ø8/20	2	2	ø8/10	1	SLU	0.70	0.40	811.55	2.50	0.00	35581.40	75926.90	32023.30	0.45	0.65	358.15	2.50	0.00	57709.10	79164.80	51938.20	39.4
2.50	3.00	ø8/20	2	2	ø8/10	1	SLU	0.70	0.40	811.55	2.50	0.00	35581.40	75643.10	32023.30	0.45	0.65	358.15	2.50	0.00	57709.10	78868.80	51938.20	39.4
3.50	3.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	1833.77	2.50	0.00	35581.40	60511.80	32023.30	0.45	0.50	305.86	2.50	0.00	44432.50	61825.50	39989.30	17.4
3.95	5.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	1833.77	2.50	0.00	35581.40	60511.80	32023.30	0.45	0.50	305.86	2.50	0.00	44432.50	61825.50	39989.30	17.4
5.55	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	1833.77	2.50	0.00	35581.40	60511.80	32023.30	0.45	0.50	305.86	2.50	0.00	44432.50	61825.50	39989.30	17.4
6.50	6.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	2085.66	2.50	0.00	35581.40	59286.00	32023.30	0.45	0.50	320.72	2.50	0.00	44432.50	60573.00	39989.30	15.3
6.95	8.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	2085.66	2.50	0.00	35581.40	59235.80	32023.30	0.45	0.50	320.72	2.50	0.00	44432.50	60521.80	39989.30	15.3
8.55	9.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	2085.66	2.50	0.00	35581.40	59057.40	32023.30	0.45	0.50	320.72	2.50	0.00	44432.50	60339.50	39989.30	15.3
9.50	9.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	2980.23	2.50	0.00	35581.40	57422.10	32023.30	0.45	0.50	524.26	2.50	0.00	44432.50	58668.70	39989.30	10.7
9.95	11.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	2980.23	2.50	0.00	35581.40	57371.90	32023.30	0.45	0.50	524.26	2.50	0.00	44432.50	58617.40	39989.30	10.7
11.55	12.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	2980.23	2.50	0.00	35581.40	57193.50	32023.30	0.45	0.50	524.26	2.50	0.00	44432.50	58435.10	39989.30	10.7
12.50	12.95	ø6/15	2	2	---	1	SLU	0.35	0.20	668.97	2.50	5312.50	---	10134.70	5312.50	0.25	0.30	95.15	2.50	7955.54	---	10840.60	7955.54	7.9
12.95	14.55	ø6/15	2	2	---	1	SLU	0.35	0.20	668.97	2.50	5312.50	---	10174.60	5312.50	0.25	0.30	95.15	2.50	7955.54	---	10883.30	7955.54	7.9
14.55	15.00	ø6/15	2	2	---	1	SLU	0.35	0.20	668.97	2.50	5312.50	---	10316.50	5312.50	0.25	0.30	95.15	2.50	7955.54	---	11035.10	7955.54	7.9
15.50	15.95	ø6/15	2	2	---	1	SLU	0.35	0.20	978.09	2.50	5312.50	---	13177.40	5312.50	0.25	0.30	102.97	2.50	7955.54	---	14095.20	7955.54	5.4
15.95	17.55	ø6/15	2	2	---	1	SLU	0.35	0.20	978.10	2.50	5312.50	---	13177.40	5312.50	0.25	0.30	102.97	2.50	7955.54	---	14095.20	7955.54	5.4
17.55	18.00	ø6/15	2	2	---	1	SLU	0.35	0.20	978.10	2.50	5312.50	---	13177.40	5312.50	0.25	0.30	102.97	2.50	7955.54	---	14095.20	7955.54	5.4

Relazione di calcolo

18.50	18.95	ø6/15	2	2	---	1	SLU	0.35	0.20	1154.76	2.50	5312.50	---	---	13177.40	5312.50	0.25	0.30	61.45	2.50	7955.54	---	---	14095.20	7955.54	4.6
18.95	20.55	ø6/15	2	2	---	1	SLU	0.35	0.20	1154.76	2.50	5312.50	---	---	13177.40	5312.50	0.25	0.30	61.45	2.50	7955.54	---	---	14095.20	7955.54	4.6
20.55	21.00	ø6/15	2	2	---	1	SLU	0.35	0.20	1154.76	2.50	5312.50	---	---	13177.40	5312.50	0.25	0.30	61.45	2.50	7955.54	---	---	14095.20	7955.54	4.6
21.50	21.95	ø6/15	2	2	---	1	SLU	0.35	0.20	1283.08	2.50	5312.50	---	---	13176.90	5312.50	0.25	0.30	98.16	2.50	7955.54	---	---	14094.70	7955.54	4.1
21.95	23.55	ø6/15	2	2	---	1	SLU	0.35	0.20	1283.08	2.50	5312.50	---	---	13161.00	5312.50	0.25	0.30	98.16	2.50	7955.54	---	---	14077.60	7955.54	4.1
23.55	24.00	ø6/15	2	2	---	1	SLU	0.35	0.20	1283.08	2.50	5312.50	---	---	13104.20	5312.50	0.25	0.30	98.16	2.50	7955.54	---	---	14016.90	7955.54	4.1
24.50	24.95	ø6/15	2	2	---	1	SLU	0.35	0.20	1428.99	2.50	5312.50	---	---	11801.00	5312.50	0.25	0.30	35.33	2.50	7955.54	---	---	12623.00	7955.54	3.7
24.95	26.55	ø6/15	2	2	---	1	SLU	0.35	0.20	1428.99	2.50	5312.50	---	---	11785.00	5312.50	0.25	0.30	35.33	2.50	7955.54	---	---	12605.90	7955.54	3.7
26.55	27.00	ø6/15	2	2	---	1	SLU	0.35	0.20	1428.99	2.50	5312.50	---	---	11728.30	5312.50	0.25	0.30	35.33	2.50	7955.54	---	---	12545.20	7955.54	3.7

Pilastrata n. 21

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^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>
2	R	40.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
23	R	30.00	50.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
23	R	30.00	50.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm^q>	Fcd <daN/cm^q>	Fyk <daN/cm^q>	Fyd <daN/cm^q>
60.00	88.00	249.00	141.10	4500.00	3913.04
50.00	70.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione con rinforzi

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	esp.	Sic.	Δ%	
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>				
0.00	1	(e)	SLU	1	2	0.00	-201773.00	517.16	4035.45	448.48	4035.45	-964574.00	113678.00	74380.60	1.09	4.780	106.97
0.00	1	(e)	SLU	1	2	0.00	-201773.00	517.16	4035.45	448.48	4035.45	-964574.00	113678.00	74380.60	1.09	4.780	106.97
3.00	1	(e)	SLU	1	2	300.00	-196625.00	1385.62	3932.49	-814.58	-3932.49	-964574.00	113005.00	-73939.20	1.09	4.906	106.97
3.50	1	(e)	SLU	2	23	0.00	-175272.00	-864.12	-3505.44	812.62	3505.44	-713416.00	-73493.50	49628.30	1.12	4.070	146.58
3.50	1	(e)	SLU	2	23	0.00	-175272.00	-864.12	-3505.44	812.62	3505.44	-699006.00	-72685.50	48423.30	1.13	3.988	154.26
6.00	1	(e)	SLU	2	23	250.00	-172428.00	805.28	3448.57	-780.74	-3448.57	-699006.00	72583.10	-48336.00	1.12	4.054	154.26
6.50	1	(e)	SLU	3	23	0.00	-151251.00	-1461.09	-3025.03	738.98	3025.03	-699006.00	-71747.50	47631.80	1.10	4.621	154.26
6.50	1	(e)	SLU	3	23	0.00	-151251.00	-1461.09	-3025.03	738.98	3025.03	-684597.00	-69114.90	47471.70	1.10	4.526	162.79
9.00	1	(e)	SLU	3	23	250.00	-148408.00	732.82	2968.15	-522.28	-2968.15	-684597.00	68994.10	-47357.40	1.10	4.613	162.79
12.50	1	(e)	SLU	5	23	0.00	-105422.00	-506.18	-2108.43	503.31	2108.43	-260510.00	-19042.60	12120.90	1.25	2.471	---
12.50	1	(e)	SLU	5	23	0.00	-105422.00	-506.18	-2108.43	503.31	2108.43	-260510.00	-19042.60	12120.90	1.25	2.471	---
15.00	1	(e)	SLU	5	23	250.00	-104203.00	509.82	2084.06	-441.53	-2084.06	-260510.00	19031.70	-12165.30	1.25	2.500	---
15.50	1	(e)	SLU	6	23	0.00	-83711.10	-695.67	-1674.22	523.12	1674.22	-260510.00	-18545.50	12037.20	1.18	3.112	---
15.50	1	(e)	SLU	6	23	0.00	-83711.10	-695.67	-1674.22	523.12	1674.22	-250378.00	-17186.60	11026.70	1.20	2.991	---
18.00	1	(e)	SLU	6	23	250.00	-82492.30	676.91	1649.85	-477.99	-1649.85	-250378.00	17138.10	-10986.70	1.19	3.035	---
18.50	1	(e)	SLU	7	23	0.00	-61801.90	-857.21	-1236.04	593.29	1236.04	-250378.00	-16051.90	10001.40	1.12	4.051	---
18.50	1	(e)	SLU	7	23	0.00	-61801.90	-857.21	-1236.04	593.29	1236.04	-250378.00	-16051.90	10001.40	1.12	4.051	---
21.00	1	(e)	SLU	7	23	250.00	-60583.20	798.66	1211.66	-555.80	-1211.66	-250378.00	15975.50	-9924.87	1.12	4.133	---
21.50	1	(e)	SLU	8	23	0.00	-39829.40	-1086.75	-1086.75	499.57	796.59	-250378.00	-14157.20	8239.42	1.05	6.286	---
21.50	1	(e)	SLU	8	23	0.00	-39829.40	-1086.75	-1086.75	499.57	796.59	-250378.00	-14157.20	8239.42	1.05	6.286	---
24.00	1	(e)	SLU	8	23	250.00	-38610.60	1068.28	1068.28	-336.04	-772.21	-250378.00	13997.50	-8126.29	1.05	6.485	---
24.50	1	(e)	SLU	9	23	0.00	-17646.40	-983.51	-983.51	868.70	868.70	-17647.90	-10675.80	6019.84	1.00	4.230	---
24.50	1	(e)	SLU	9	23	0.00	-17646.40	-983.51	-983.51	868.70	868.70	-17647.90	-10675.80	6019.84	1.00	4.230	---
27.00	1	(e)	SLU	9	23	250.00	-16427.70	512.54	512.54	-1196.08	-1196.08	-16430.30	10447.90	-5890.70	1.00	3.967	---

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	20.78	51.61	---	2	3.00	20.78	51.61	---	2	3.00	20.78	51.61	---	3	3.00	20.78	55.59
---	3	3.00	20.78	55.59	---	3	3.00	20.78	55.59	---	4	3.00	34.64	32.77	---	4	3.00	34.64	32.77
---	4	3.00	34.64	32.77															

Stato limite ultimo - Verifiche a flessione/presoflessione - Controlli di stabilità con rinforzi

Xg	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdy, s <daNm>	MRdz <daNm>	MRdz, s <daNm>	esp.	Sic.	Δ%	
9.50	1	(e)	SLU	4	23	0.00	-127064.00	-394.15	-2541.28	250.70	2541.28	-260510.00	-18182.10	-16924.70	11257.70	9254.02	1.32	2.050	---
9.50	1	(e)	SLU	4	23	0.00	-127064.00	-394.15	-2541.28	250.70	2541.28	-260510.00	-18182.10	-16924.70	11257.70	9254.02	1.32	2.050	---
12.00	1	(e)	SLU	4	23	250.00	-125845.00	392.90	2516.90	-351.04	-2516.90	-260510.00	18256.60	16985.10	-11311.00	-9311.83	1.32	2.070	---

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	2	0.00	-142977.00	312.80	387.41	0.00	57.81	24.16	360.59
0.00	4	SLE Q	1	2	0.00	-131622.00	250.94	230.40	0.00	57.81	22.05	329.44
0.00	2	SLE R	1	2	0.00	-142977.00	312.80	387.41	0.00	57.81	24.16	360.59
0.00	4	SLE Q	1	2	0.00	-131622.00	250.94	230.40	0.00	57.81	22.05	329.44
3.00	2	SLE R	1	2	300.00	-139017.00	-568.33	969.16	0.00	57.81	24.54	364.21
3.00	4	SLE Q	1	2	300.00	-127662.00	-459.63	973.20	0.00	57.81	22.52	334.39
3.50	2	SLE R	2	23	0.00	-124012.00	566.05	-614.85	0.00	57.81	31.09	459.59
3.50	4	SLE Q	2	23	0.00	-113895.00	462.42	-640.47	0.00	57.81	28.54	422.03
3.50	2	SLE R	2	23	0.00	-124012.00	566.05	-614.85	0.00	53.78	31.51	465.73
3.50	4	SLE Q	2	23	0.00	-113895.00	462.42	-640.47	0.00	53.78	28.92	427.66
6.00	2	SLE R	2	23	250.00	-121825.00	-544.10	572.66	0.00	53.78	30.86	456.35
6.00	4	SLE Q	2	23	250.00	-111707.00	-442.37	593.07	0.00	53.78	28.27	418.22
6.50	2	SLE R	3	23	0.00	-106957.00	515.77	-1032.99	0.00	53.78	28.19	414.81

Relazione di calcolo

6.50	4	SLE Q	3	23	0.00	-98082.00	417.43	-980.17	0.00	53.78	25.76	379.34
6.50	2	SLE R	3	23	0.00	-106957.00	515.77	-1032.99	0.00	49.76	28.57	420.44
6.50	4	SLE Q	3	23	0.00	-98082.00	417.43	-980.17	0.00	49.76	26.11	384.51
9.00	2	SLE R	3	23	250.00	-104769.00	-364.97	524.96	0.00	49.76	26.67	395.18
9.00	4	SLE Q	3	23	250.00	-95894.50	-297.75	489.63	0.00	49.76	24.33	360.72
9.50	2	SLE R	4	23	0.00	-89775.30	175.15	-281.31	0.00	12.06	57.34	845.30
9.50	4	SLE Q	4	23	0.00	-82135.20	142.30	-261.37	0.00	12.06	52.29	771.60
9.50	2	SLE R	4	23	0.00	-89775.30	175.15	-281.31	0.00	12.06	57.34	845.30
9.50	4	SLE Q	4	23	0.00	-82135.20	142.30	-261.37	0.00	12.06	52.29	771.60
12.00	2	SLE R	4	23	250.00	-88837.80	-245.32	279.88	0.00	12.06	57.58	845.05
12.00	4	SLE Q	4	23	250.00	-81197.70	-199.20	265.39	0.00	12.06	52.41	770.25
12.50	2	SLE R	5	23	0.00	-74512.30	352.05	-363.09	0.00	12.06	50.84	736.74
12.50	4	SLE Q	5	23	0.00	-68056.60	286.26	-348.38	0.00	12.06	46.15	670.17
12.50	2	SLE R	5	23	0.00	-74512.30	352.05	-363.09	0.00	12.06	50.84	736.74
12.50	4	SLE Q	5	23	0.00	-68056.60	286.26	-348.38	0.00	12.06	46.15	670.17
15.00	2	SLE R	5	23	250.00	-73574.80	-309.27	361.73	0.00	12.06	49.79	723.24
15.00	4	SLE Q	5	23	250.00	-67119.10	-251.10	363.14	0.00	12.06	45.30	658.92
15.50	2	SLE R	6	23	0.00	-59209.20	367.26	-493.90	0.00	12.06	42.82	612.96
15.50	4	SLE Q	6	23	0.00	-53884.10	298.61	-486.27	0.00	12.06	38.81	556.75
15.50	2	SLE R	6	23	0.00	-59209.20	367.26	-493.90	0.00	9.24	43.97	630.03
15.50	4	SLE Q	6	23	0.00	-53884.10	298.61	-486.27	0.00	9.24	39.86	572.22
18.00	2	SLE R	6	23	250.00	-58271.70	-335.81	481.89	0.00	9.24	42.95	616.56
18.00	4	SLE Q	6	23	250.00	-52946.60	-273.30	461.45	0.00	9.24	38.82	558.38
18.50	2	SLE R	7	23	0.00	-43760.80	416.59	-612.31	0.00	9.24	35.97	504.97
18.50	4	SLE Q	7	23	0.00	-39587.60	337.56	-573.65	0.00	9.24	32.22	453.73
18.50	2	SLE R	7	23	0.00	-43760.80	416.59	-612.31	0.00	9.24	35.97	504.97
18.50	4	SLE Q	7	23	0.00	-39587.60	337.56	-573.65	0.00	9.24	32.22	453.73
21.00	2	SLE R	7	23	250.00	-42823.30	-389.99	571.49	0.00	9.24	34.79	489.58
21.00	4	SLE Q	7	23	250.00	-38650.10	-314.77	532.47	0.00	9.24	31.08	438.77
21.50	2	SLE R	8	23	0.00	-28262.00	351.98	-773.46	0.00	9.24	26.90	369.24
21.50	4	SLE Q	8	23	0.00	-25256.50	288.06	-703.51	0.00	9.24	23.82	327.80
21.50	2	SLE R	8	23	0.00	-28262.00	351.98	-773.46	0.00	9.24	26.90	369.24
21.50	4	SLE Q	8	23	0.00	-25256.50	288.06	-703.51	0.00	9.24	23.82	327.80
24.00	2	SLE R	8	23	250.00	-27324.50	-238.22	758.25	0.00	9.24	24.88	345.41
24.00	4	SLE Q	8	23	250.00	-24319.00	-199.29	682.88	0.00	9.24	22.05	306.56
24.50	2	SLE R	9	23	0.00	-12616.20	607.28	-716.02	1.54	7.70	20.46	257.50
24.50	4	SLE Q	9	23	0.00	-10802.10	483.35	-645.78	1.54	7.70	17.26	218.25
24.50	2	SLE R	9	23	0.00	-12616.20	607.28	-716.02	1.54	7.70	20.46	257.50
24.50	4	SLE Q	9	23	0.00	-10802.10	483.35	-645.78	1.54	7.70	17.26	218.25
27.00	2	SLE R	9	23	250.00	-11678.70	-833.09	395.43	3.08	6.16	20.96	254.97
27.00	4	SLE Q	9	23	250.00	-9864.59	-653.57	357.49	3.08	6.16	17.03	209.02

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <cm>	X1 <cm>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	S
0.00	0.68	ø8/20	2	2	ø8/10	1	SLU	0.88	0.55	421.02	2.50	0.00	48858.10	132945.00	43972.30	0.60	0.83	289.49	2.50	0.00	73641.10	136624.00	66277.00	>1
0.68	2.32	ø8/20	2	2	ø8/10	1	SLU	0.88	0.55	421.02	2.50	0.00	48858.10	132945.00	43972.30	0.60	0.83	289.49	2.50	0.00	73641.10	136624.00	66277.00	>1
2.32	3.00	ø8/20	2	2	ø8/10	1	SLU	0.88	0.55	421.02	2.50	0.00	48858.10	132945.00	43972.30	0.60	0.83	289.49	2.50	0.00	73641.10	136624.00	66277.00	>1
3.50	4.00	ø6/15	2	2	ø8/10	1	SLU	0.70	0.45	637.34	2.50	0.00	40007.00	86594.00	36006.30	0.50	0.65	667.76	2.50	0.00	57709.10	89221.40	51938.20	56
4.00	5.50	ø6/15	2	2	ø8/10	1	SLU	0.70	0.45	637.34	2.50	0.00	40007.00	86594.00	36006.30	0.50	0.65	667.76	2.50	0.00	57709.10	89221.40	51938.20	56
5.50	6.00	ø6/15	2	2	ø8/10	1	SLU	0.70	0.45	637.34	2.50	0.00	40007.00	86594.00	36006.30	0.50	0.65	667.76	2.50	0.00	57709.10	89221.40	51938.20	56
6.50	7.00	ø6/15	2	2	ø8/10	1	SLU	0.70	0.45	504.50	2.50	0.00	40007.00	86594.00	36006.30	0.50	0.65	877.57	2.50	0.00	57709.10	89221.40	51938.20	59
7.00	8.50	ø6/15	2	2	ø8/10	1	SLU	0.70	0.45	504.50	2.50	0.00	40007.00	86594.00	36006.30	0.50	0.65	877.57	2.50	0.00	57709.10	89221.40	51938.20	59
8.50	9.00	ø6/15	2	2	ø8/10	1	SLU	0.70	0.45	504.50	2.50	0.00	40007.00	86594.00	36006.30	0.50	0.65	877.57	2.50	0.00	57709.10	89221.40	51938.20	59
9.50	10.00	ø6/15	2	2	---	1	SLU	0.50	0.25	240.70	2.30	6114.99	---	6114.99	6114.99	0.30	0.45	314.82	1.67	7958.73	---	7958.73	7958.73	25
10.00	11.50	ø6/15	2	2	---	1	SLU	0.50	0.25	240.70	2.32	6164.57	---	6164.58	6164.57	0.30	0.45	314.82	1.68	8032.48	---	8032.48	8032.48	25
11.50	12.00	ø6/15	2	2	---	1	SLU	0.50	0.25	240.70	2.38	6310.98	---	6310.98	6310.98	0.30	0.45	314.82	1.73	8249.78	---	8249.78	8249.78	26
12.50	13.00	ø6/15	2	2	---	1	SLU	0.50	0.25	377.94	2.50	6634.02	---	12798.60	6634.02	0.30	0.45	406.40	2.50	11920.10	---	13798.00	11920.10	17
13.00	14.50	ø6/15	2	2	---	1	SLU	0.50	0.25	377.94	2.50	6634.02	---	12877.70	6634.02	0.30	0.45	406.40	2.50	11920.10	---	13883.30	11920.10	17
14.50	15.00	ø6/15	2	2	---	1	SLU	0.50	0.25	377.94	2.50	6634.02	---	13115.10	6634.02	0.30	0.45	406.40	2.50	11920.10	---	14139.20	11920.10	17
15.50	16.00	ø6/15	2	2	---	1	SLU	0.50	0.25	400.45	2.50	6634.02	---	19845.20	6634.02	0.30	0.45	549.03	2.50	11920.10	---	21394.80	11920.10	16
16.00	17.50	ø6/15	2	2	---	1	SLU	0.50	0.25	400.45	2.50	6634.02	---	19924.30	6634.02	0.30	0.45	549.03	2.50	11920.10	---	21480.10	11920.10	16
17.50	18.00	ø6/15	2	2	---	1	SLU	0.50	0.25	400.45	2.50	6634.02	---	20161.60	6634.02	0.30	0.45	549.03	2.50	11920.10	---	21736.00	11920.10	16
18.50	19.00	ø6/15	2	2	---	1	SLU	0.50	0.25	459.63	2.50	6634.02	---	23507.60	6634.02	0.30	0.45	662.35	2.50	11920.10	---	25343.20	11920.10	14
19.00	20.50	ø6/15	2	2	---	1	SLU	0.50	0.25	459.63	2.50	6634.02	---	23507.60	6634.02	0.30	0.45	662.35	2.50	11920.10	---	25343.20	11920.10	14
20.50	21.00	ø6/15	2	2	---	1	SLU	0.50	0.25	459.63	2.50	6634.02	---	23507.60	6634.02	0.30	0.45	662.35	2.50	11920.10	---	25343.20	11920.10	14
21.50	22.00	ø6/15	2	2	---	1	SLU	0.50	0.25	334.25	2.50	6634.02	---	23507.60	6634.02	0.30	0.45	862.01	2.50	11920.10	---	25343.20	11920.10	13
22.00	23.50	ø6/15	2	2	---	1	SLU	0.50	0.25	334.25	2.50	6634.02	---	23507.60	6634.02	0.30	0.45	862.01	2.50	11920.10	---	25343.20	11920.10	13
23.50	24.00	ø6/15	2	2	---	1	SLU	0.50	0.25	334.25	2.50	6634.02	---	23507.60	6634.02	0.30	0.45	862.01	2.50	11920.10	---	25343.20	11920.10	13
24.50	25.00	ø6/15	2	2	---	1	SLU	0.50	0.25	825.91	2.50	6634.02	---	21097.10	6634.02	0.30	0.45	598.42	2.50	11920.10	---	22744.50	11920.10	8
25.00	26.50	ø6/15	2	2	---	1	SLU	0.50	0.25	825.91	2.50	6634.02	---	21065.40	6634.02	0.30	0.45	598.42	2.50	11920.10	---	22710.40	11920.10	8
26.50	27.00	ø6/15	2	2	---	1	SLU	0.50	0.25	825.91	2.50	6634.02	---	20970.50	6634.02	0.30	0.45	598.42	2.50	11920.10	---	22608.00	11920.10	8

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/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cm
------	------	-----------	-----------	------------	------------------	-------------------	------------------	------------------------	-------------------	------------------	----------------

Relazione di calcolo

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	esp.	Sic.
0.00	1(e)	SLU	1	2	0.00	-183836.00	348.52	3676.72	199.87	3676.72	-466051.00	46539.60	27920.10	1.25	2.535
0.00	1(e)	SLU	1	2	0.00	-183836.00	348.52	3676.72	199.87	3676.72	-466051.00	46539.60	27920.10	1.25	2.535
3.50	1(e)	SLU	1	2	350.00	-180742.00	52.70	3614.84	-432.40	-3614.84	-466051.00	46495.80	-27885.10	1.24	2.579
6.50	1(e)	SLU	3	21	0.00	-143776.00	-125.49	-2875.52	339.26	2875.52	-353140.00	-37084.80	15048.10	1.26	2.456
6.50	1(e)	SLU	3	21	0.00	-143776.00	-125.49	-2875.52	339.26	2875.52	-353140.00	-37084.80	15048.10	1.26	2.456
9.50	1(e)	SLU	3	21	300.00	-141787.00	-87.22	-2835.74	-434.78	-2835.74	-353140.00	-37065.10	-15098.00	1.25	2.491
9.50	1(e)	SLU	4	21	0.00	-123989.00	-87.22	-2479.78	280.77	2479.78	-353140.00	-36602.40	15011.50	1.21	2.848
9.50	1(e)	SLU	4	21	0.00	-123989.00	-87.22	-2479.78	280.77	2479.78	-338731.00	-32380.40	15029.20	1.22	2.732
12.50	1(e)	SLU	4	21	300.00	-122000.00	25.96	2440.00	-307.46	-2440.00	-338731.00	32298.70	-14987.10	1.22	2.776
12.50	1(e)	SLU	5	21	0.00	-104196.00	25.96	2083.93	409.14	2083.93	-338731.00	31325.10	14416.70	1.17	3.251
12.50	1(e)	SLU	5	21	0.00	-104196.00	25.96	2083.93	409.14	2083.93	-338731.00	31325.10	14416.70	1.17	3.251
15.50	1(e)	SLU	5	21	300.00	-102207.00	-17.45	-2044.15	-702.26	-2044.15	-338731.00	-31191.60	-14333.20	1.17	3.314
15.50	1(e)	SLU	6	22	0.00	-84533.10	-17.45	-1690.66	462.52	1690.66	-289480.00	-27399.00	10209.30	1.16	3.424
15.50	1(e)	SLU	6	22	0.00	-84533.10	-17.45	-1690.66	462.52	1690.66	-289480.00	-27399.00	10209.30	1.16	3.424
18.50	1(e)	SLU	6	22	300.00	-82875.60	-2.84	-1657.51	-608.93	-1657.51	-289480.00	-27289.30	-10146.70	1.16	3.493
18.50	1(e)	SLU	7	22	0.00	-65197.00	-2.84	-1303.94	556.73	1303.94	-289480.00	-25938.80	9251.71	1.10	4.440
18.50	1(e)	SLU	7	22	0.00	-65197.00	-2.84	-1303.94	556.73	1303.94	-289480.00	-25938.80	9251.71	1.10	4.440
21.50	1(e)	SLU	7	22	300.00	-63539.50	-4.98	-1270.79	-748.34	-1270.79	-289480.00	-25798.30	-9151.22	1.10	4.556
21.50	1(e)	SLU	8	22	0.00	-45860.80	-4.98	-917.22	417.34	917.22	-289480.00	-23781.20	7964.67	1.05	6.312
21.50	1(e)	SLU	8	22	0.00	-45860.80	-4.98	-917.22	417.34	917.22	-289480.00	-23781.20	7964.67	1.05	6.312
24.50	1(e)	SLU	8	22	300.00	-44203.30	-34.75	-884.07	-349.03	-884.07	-289480.00	-23497.00	-7844.35	1.04	6.549
24.50	1(e)	SLU	9	22	0.00	-26526.10	-34.75	-530.52	816.34	816.34	-26529.20	-19984.10	6495.68	1.00	6.569
24.50	1(e)	SLU	9	22	0.00	-26526.10	-34.75	-530.52	816.34	816.34	-26529.20	-19984.10	6495.68	1.00	6.569
27.50	1(e)	SLU	9	22	300.00	-24868.60	-0.00	-497.37	-1633.12	-1633.12	-24869.70	-19609.30	-6364.81	1.00	3.547

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
---	2	3.00	34.64	33.74
---	2	3.00	34.64	33.74
---	2	3.00	34.64	33.74

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>	esp.	Sic.
3.50	1(e)	SLU	2	21	0.00	-163271.00	52.70	3265.41	303.24	3265.41	-324321.00	30373.70	10503.40	1.34	1.986
3.50	1(e)	SLU	2	21	0.00	-163271.00	52.70	3265.41	303.24	3265.41	-353140.00	34948.70	11786.70	1.30	2.163
6.50	1(e)	SLU	2	21	300.00	-161282.00	-125.49	-3225.63	-403.20	-3225.63	-353140.00	-35075.20	-11854.20	1.30	2.190

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	2	0.00	-129162.00	139.41	252.15	0.00	20.11	44.12	657.95
0.00	4	SLE Q	1	2	0.00	-106972.00	112.74	207.28	0.00	20.11	36.52	544.71
0.00	2	SLE R	1	2	0.00	-129162.00	139.41	252.15	0.00	20.11	44.12	657.95
0.00	4	SLE Q	1	2	0.00	-106972.00	112.74	207.28	0.00	20.11	36.52	544.71
3.50	2	SLE R	1	2	350.00	-126782.00	-301.66	35.04	0.00	20.11	43.50	647.16
3.50	4	SLE Q	1	2	350.00	-104592.00	-244.87	29.47	0.00	20.11	35.87	533.70
3.50	2	SLE R	2	21	0.00	-114609.00	211.41	35.04	0.00	8.04	55.09	817.09
3.50	4	SLE Q	2	21	0.00	-94715.10	172.64	29.47	0.00	8.04	45.51	675.09
3.50	2	SLE R	2	21	0.00	-114609.00	211.41	35.04	0.00	16.09	52.21	774.19
3.50	4	SLE Q	2	21	0.00	-94715.10	172.64	29.47	0.00	16.09	43.13	639.64
6.50	2	SLE R	2	21	300.00	-113079.00	-281.19	-87.17	0.00	16.09	52.33	772.82
6.50	4	SLE Q	2	21	300.00	-93185.10	-229.10	-75.34	0.00	16.09	43.12	636.79
6.50	2	SLE R	3	21	0.00	-100882.00	236.72	-87.17	0.00	16.09	46.60	688.63
6.50	4	SLE Q	3	21	0.00	-83288.60	192.27	-75.34	0.00	16.09	38.46	568.41
6.50	2	SLE R	3	21	0.00	-100882.00	236.72	-87.17	0.00	16.09	46.60	688.63
6.50	4	SLE Q	3	21	0.00	-83288.60	192.27	-75.34	0.00	16.09	38.46	568.41
9.50	2	SLE R	3	21	300.00	-99351.90	-303.35	-61.08	0.00	16.09	46.41	683.33
9.50	4	SLE Q	3	21	300.00	-81758.60	-247.00	-58.33	0.00	16.09	38.20	562.47
9.50	2	SLE R	4	21	0.00	-86950.50	195.92	-61.08	0.00	16.09	40.04	592.15
9.50	4	SLE Q	4	21	0.00	-71695.00	159.53	-58.33	0.00	16.09	33.03	488.45
9.50	2	SLE R	4	21	0.00	-86950.50	195.92	-61.08	0.00	12.06	41.09	607.85
9.50	4	SLE Q	4	21	0.00	-71695.00	159.53	-58.33	0.00	12.06	33.89	501.41
12.50	2	SLE R	4	21	300.00	-85420.50	-214.81	15.25	0.00	12.06	40.39	596.94
12.50	4	SLE Q	4	21	300.00	-70165.00	-174.93	25.09	0.00	12.06	33.21	490.82
12.50	2	SLE R	5	21	0.00	-73015.10	285.27	15.25	0.00	12.06	35.42	519.48
12.50	4	SLE Q	5	21	0.00	-60096.90	232.52	25.09	0.00	12.06	29.18	427.99
12.50	2	SLE R	5	21	0.00	-73015.10	285.27	15.25	0.00	12.06	35.42	519.48
12.50	4	SLE Q	5	21	0.00	-60096.90	232.52	25.09	0.00	12.06	29.18	427.99
15.50	2	SLE R	5	21	300.00	-71485.10	-489.56	-12.09	0.00	12.06	36.50	527.32
15.50	4	SLE Q	5	21	300.00	-58566.90	-397.94	-11.59	0.00	12.06	29.88	431.83
15.50	2	SLE R	6	22	0.00	-59169.20	322.78	-12.09	0.00	12.06	35.56	510.49
15.50	4	SLE Q	6	22	0.00	-48570.60	262.84	-11.59	0.00	12.06	29.17	418.90
15.50	2	SLE R	6	22	0.00	-59169.20	322.78	-12.09	0.00	12.06	35.56	510.49
15.50	4	SLE Q	6	22	0.00	-48570.60	262.84	-11.59	0.00	12.06	29.17	418.90

Relazione di calcolo

18.50	2	SLE R	6	22	300.00	-57894.20	-425.16	-2.09	0.00	12.06	36.13	511.78
18.50	4	SLE Q	6	22	300.00	-47295.60	-346.70	-2.98	0.00	12.06	29.51	418.09
18.50	2	SLE R	7	22	0.00	-45574.90	387.86	-2.09	0.00	12.06	29.11	409.15
18.50	4	SLE Q	7	22	0.00	-37295.60	314.81	-2.98	0.00	12.06	23.79	334.59
18.50	2	SLE R	7	22	0.00	-45574.90	387.86	-2.09	0.00	12.06	29.11	409.15
18.50	4	SLE Q	7	22	0.00	-37295.60	314.81	-2.98	0.00	12.06	23.79	334.59
21.50	2	SLE R	7	22	300.00	-44299.90	-520.55	-2.90	0.00	12.06	30.10	414.62
21.50	4	SLE Q	7	22	300.00	-36020.60	-420.94	0.92	0.00	12.06	24.44	336.78
21.50	2	SLE R	8	22	0.00	-31980.20	292.56	-2.90	0.00	12.06	20.69	289.58
21.50	4	SLE Q	8	22	0.00	-26019.50	240.79	0.92	0.00	12.06	16.86	235.85
21.50	2	SLE R	8	22	0.00	-31980.20	292.56	-2.90	0.00	12.06	20.69	289.58
21.50	4	SLE Q	8	22	0.00	-26019.50	240.79	0.92	0.00	12.06	16.86	235.85
24.50	2	SLE R	8	22	300.00	-30705.10	-248.08	-24.90	0.00	12.06	19.55	275.46
24.50	4	SLE Q	8	22	300.00	-24744.50	-210.56	-29.11	0.00	12.06	15.93	223.76
24.50	2	SLE R	9	22	0.00	-18386.40	564.83	-24.90	0.00	12.06	16.98	214.45
24.50	4	SLE Q	9	22	0.00	-14744.30	451.00	-29.11	0.00	12.06	13.63	172.27
24.50	2	SLE R	9	22	0.00	-18386.40	564.83	-24.90	0.00	12.06	16.98	214.45
24.50	4	SLE Q	9	22	0.00	-14744.30	451.00	-29.11	0.00	12.06	13.63	172.27
27.50	2	SLE R	9	22	300.00	-17111.40	-1124.42	-0.00	6.03	6.03	24.59	276.14
27.50	4	SLE Q	9	22	300.00	-13469.30	-886.85	-0.00	6.03	6.03	19.39	217.63

Stato limite ultimo - Verifiche a taglio

X0	X1	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	0.68	ø8/20	2	21	SLU	0.68	0.35	180.65	2.50	12369.40	26835.40	12369.40	0.40	0.63	84.52	2.50	22236.70	28378.00	22236.70	68.472	
0.68	2.58	ø8/20	2	21	SLU	0.68	0.35	180.65	2.50	12369.40	27040.00	12369.40	0.40	0.63	84.52	2.50	22236.70	28594.40	22236.70	68.472	
2.58	3.50	ø8/20	2	21	SLU	0.68	0.35	180.65	2.50	12369.40	27611.80	12369.40	0.40	0.63	84.52	2.50	22236.70	29199.00	22236.70	68.472	
3.50	3.50	ø6/15	2	21	SLU	0.68	0.25	235.48	2.18	5793.96	5793.96	5793.96	0.30	0.63	84.52	1.24	8290.40	8290.40	8290.40	24.605	
4.18	5.82	ø6/15	2	21	SLU	0.68	0.25	235.48	2.50	6634.02	11094.40	6634.02	0.30	0.63	59.40	2.09	13912.00	13912.00	13912.00	28.172	
5.82	6.50	ø6/15	2	21	SLU	0.68	0.25	235.48	2.50	6634.02	11447.30	6634.02	0.30	0.63	59.40	2.13	14181.60	14181.60	14181.60	28.172	
6.50	4.18	ø6/15	2	21	SLU	0.68	0.25	258.01	2.50	6634.02	11094.40	6634.02	0.30	0.63	59.40	2.09	13912.00	13912.00	13912.00	25.712	
4.18	5.58	ø6/15	2	21	SLU	0.68	0.25	235.48	2.50	6634.02	11094.40	6634.02	0.30	0.63	59.40	2.09	13912.00	13912.00	13912.00	28.172	
5.58	9.50	ø6/15	2	21	SLU	0.68	0.25	258.01	2.50	6634.02	11395.70	6634.02	0.30	0.63	59.40	2.12	14142.40	14142.40	14142.40	25.712	
9.50	6.50	ø6/15	2	21	SLU	0.68	0.25	235.48	2.50	6634.02	11593.70	6634.02	0.30	0.63	59.40	2.14	14291.80	14291.80	14291.80	28.172	
10.18	11.82	ø6/15	2	21	SLU	0.68	0.25	196.07	2.50	6634.02	23844.10	6634.02	0.30	0.63	37.73	2.50	16677.60	26445.30	16677.60	33.834	
11.82	12.50	ø6/15	2	21	SLU	0.68	0.25	196.07	2.50	6634.02	24197.00	6634.02	0.30	0.63	37.73	2.50	16677.60	26836.70	16677.60	33.834	
12.50	7.18	ø6/15	2	21	SLU	0.68	0.25	370.47	2.50	6634.02	17421.80	6634.02	0.30	0.63	14.47	2.50	16677.60	19322.40	16677.60	17.907	
7.18	8.58	ø6/15	2	21	SLU	0.68	0.25	258.01	2.50	6634.02	17421.80	6634.02	0.30	0.63	12.76	2.50	16677.60	19322.40	16677.60	25.712	
8.58	15.50	ø6/15	2	21	SLU	0.68	0.25	370.47	2.50	6634.02	17723.00	6634.02	0.30	0.63	14.47	2.50	16677.60	19656.50	16677.60	17.907	
15.50	9.50	ø6/15	2	21	SLU	0.68	0.20	357.15	2.50	5312.50	6980.61	5312.50	0.25	0.63	12.76	1.58	10552.80	10552.80	10552.80	14.875	
16.18	17.82	ø6/15	2	21	SLU	0.68	0.20	357.15	2.50	5312.50	24955.00	5312.50	0.25	0.63	4.87	2.50	16677.60	28802.00	16677.60	14.875	
17.82	18.50	ø6/15	2	21	SLU	0.68	0.20	357.15	2.50	5312.50	25237.60	5312.50	0.25	0.63	4.87	2.50	16677.60	29128.20	16677.60	14.875	
18.50	10.18	ø6/15	2	21	SLU	0.68	0.20	435.02	2.50	5312.50	12672.40	5312.50	0.25	0.63	37.73	2.31	15441.80	15441.80	15441.80	12.212	
10.18	11.58	ø6/15	2	21	SLU	0.68	0.20	196.07	2.50	5312.50	12672.40	5312.50	0.25	0.63	37.73	2.31	15441.80	15441.80	15441.80	27.094	
11.58	21.50	ø6/15	2	21	SLU	0.68	0.20	435.02	2.50	5312.50	12961.90	5312.50	0.25	0.63	37.73	2.35	15649.70	15649.70	15649.70	12.212	
21.50	12.50	ø6/15	2	21	SLU	0.68	0.20	255.46	2.50	5312.50	13152.10	5312.50	0.25	0.63	37.73	2.37	15784.90	15784.90	15784.90	20.796	
22.18	23.82	ø6/15	2	21	SLU	0.68	0.20	255.46	2.50	5312.50	25601.70	5312.50	0.25	0.63	9.93	2.50	16677.60	29548.40	16677.60	20.796	
23.82	24.50	ø6/15	2	21	SLU	0.68	0.20	255.46	2.50	5312.50	25601.70	5312.50	0.25	0.63	9.93	2.50	16677.60	29548.40	16677.60	20.796	
24.50	13.18	ø6/15	2	21	SLU	0.68	0.20	816.49	2.50	5312.50	18845.60	5312.50	0.25	0.63	14.47	2.50	16677.60	21750.70	16677.60	6.507	
13.18	14.58	ø6/15	2	21	SLU	0.68	0.20	370.47	2.50	5312.50	18845.60	5312.50	0.25	0.63	14.47	2.50	16677.60	21750.70	16677.60	14.340	
14.58	27.50	ø6/15	2	21	SLU	0.68	0.20	816.49	2.50	5312.50	19135.10	5312.50	0.25	0.63	14.47	2.50	16677.60	22084.90	16677.60	6.507	
15.50	16.18	ø6/15	2	21	SLU	0.68	0.20	357.15	2.50	5312.50	24837.90	5312.50	0.25	0.63	4.87	2.50	16677.60	28666.80	16677.60	14.875	
16.18	17.58	ø6/15	2	21	SLU	0.68	0.20	357.15	2.50	5312.50	24955.00	5312.50	0.25	0.63	4.87	2.50	16677.60	28802.00	16677.60	14.875	
17.58	18.26	ø6/15	2	21	SLU	0.68	0.20	357.15	2.50	5312.50	25196.30	5312.50	0.25	0.63	4.87	2.50	16677.60	29080.40	16677.60	14.875	
18.50	19.18	ø6/15	2	21	SLU	0.68	0.20	435.02	2.50	5312.50	25601.70	5312.50	0.25	0.63	0.71	2.50	16677.60	29548.40	16677.60	12.212	
19.18	20.58	ø6/15	2	21	SLU	0.68	0.20	435.02	2.50	5312.50	25601.70	5312.50	0.25	0.63	0.71	2.50	16677.60	29548.40	16677.60	12.212	
20.58	21.26	ø6/15	2	21	SLU	0.68	0.20	435.02	2.50	5312.50	25601.70	5312.50	0.25	0.63	0.71	2.50	16677.60	29548.40	16677.60	12.212	
21.50	22.18	ø6/15	2	21	SLU	0.68	0.20	255.46	2.50	5312.50	25601.70	5312.50	0.25	0.63	9.93	2.50	16677.60	29548.40	16677.60	20.796	
22.18	23.58	ø6/15	2	21	SLU	0.68	0.20	255.46	2.50	5312.50	25601.70	5312.50	0.25	0.63	9.93	2.50	16677.60	29548.40	16677.60	20.796	
23.58	24.26	ø6/15	2	21	SLU	0.68	0.20	255.46	2.50	5312.50	25601.70	5312.50	0.25	0.63	9.93	2.50	16677.60	29548.40	16677.60	20.796	
24.50	25.18	ø6/15	2	21	SLU	0.68	0.20	816.49	2.50	5312.50	23790.70	5312.50	0.25	0.63	11.58	2.50	16677.60	27458.20	16677.60	6.507	
25.18	26.58	ø6/15	2	21	SLU	0.68	0.20	816.49	2.50	5312.50	23743.90	5312.50	0.25	0.63	11.58	2.50	16677.60	27404.10	16677.60	6.507	
26.58	27.26	ø6/15	2	21	SLU	0.68	0.20	816.49	2.50	5312.50	23647.40	5312.50	0.25	0.63	11.58	2.50	16677.60	27292.70	16677.60	6.507	

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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm²>	Fcd <daN/cm²>	Fyk <daN/cm²>	Fyd <daN/cm²&
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Relazione di calcolo

6.50	1(e)	SLU	3	21	0.00	-12196.00	-43.10	-2843.92	-368.76	-2843.92	-353140.00	-37069.50	-15087.80	1.25	2.483	---
9.50	1(e)	SLU	3	21	300.00	-140207.00	25.70	2804.14	447.85	2804.14	-353140.00	37044.30	15137.20	1.25	2.519	---
9.50	1(e)	SLU	4	21	0.00	-122643.00	25.70	2452.86	-289.18	-2452.86	-353140.00	36548.10	-14988.10	1.21	2.879	---
9.50	1(e)	SLU	4	21	0.00	-122643.00	25.70	2452.86	-289.18	-2452.86	-353140.00	36548.10	-14988.10	1.21	2.879	---
12.50	1(e)	SLU	4	21	300.00	-120654.00	-93.18	-2413.09	316.65	2413.09	-353140.00	-36462.60	14949.90	1.20	2.927	---
12.50	1(e)	SLU	5	21	0.00	-103074.00	-93.18	-2061.49	-423.58	-2061.49	-353140.00	-35472.50	-14513.30	1.16	3.426	---
12.50	1(e)	SLU	5	21	0.00	-103074.00	-93.18	-2061.49	-423.58	-2061.49	-353140.00	-35472.50	-14513.30	1.16	3.426	---
15.50	1(e)	SLU	5	21	300.00	-101085.00	-31.45	-2021.71	717.35	2021.71	-353140.00	-35336.20	14453.60	1.16	3.493	---
15.50	1(e)	SLU	6	22	0.00	-83638.20	-31.45	-1672.76	-458.94	-1672.76	-275071.00	-26954.00	-9051.73	1.17	3.289	---
15.50	1(e)	SLU	6	22	0.00	-83638.20	-31.45	-1672.76	-458.94	-1672.76	-289480.00	-27340.10	-10175.70	1.16	3.461	---
18.50	1(e)	SLU	6	22	300.00	-81980.70	-18.08	-1639.61	613.47	1639.61	-289480.00	-27228.60	10112.90	1.15	3.531	---
18.50	1(e)	SLU	7	22	0.00	-64520.10	-18.08	-1290.40	-565.53	-1290.40	-289480.00	-25881.60	-9210.80	1.10	4.487	---
18.50	1(e)	SLU	7	22	0.00	-64520.10	-18.08	-1290.40	-565.53	-1290.40	-289480.00	-25881.60	-9210.80	1.10	4.487	---
21.50	1(e)	SLU	7	22	300.00	-62862.60	-49.40	-1257.25	759.20	1257.25	-289480.00	-25740.20	9110.34	1.10	4.605	---
21.50	1(e)	SLU	8	22	0.00	-45391.70	-49.40	-907.83	-421.86	-907.83	-289480.00	-23701.40	-7931.54	1.05	6.377	---
21.50	1(e)	SLU	8	22	0.00	-45391.70	-49.40	-907.83	-421.86	-907.83	-289480.00	-23701.40	-7931.54	1.05	6.377	---
24.50	1(e)	SLU	8	22	300.00	-43734.20	114.71	874.68	350.10	874.68	-289480.00	23415.80	7809.70	1.04	6.619	---
24.50	1(e)	SLU	9	22	0.00	-26255.30	114.71	-525.11	-832.54	-832.54	-26260.00	-19923.30	-6474.46	1.00	6.454	---
24.50	1(e)	SLU	9	22	0.00	-26255.30	114.71	-525.11	-832.54	-832.54	-26260.00	-19923.30	-6474.46	1.00	6.454	---
27.50	1(e)	SLU	9	22	300.00	-24597.80	0.00	-491.96	1659.22	1659.22	-24601.80	-19547.70	6343.60	1.00	3.488	---

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ _c	σ _ε
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	2	0.00	-130383.00	-188.74	877.69	0.00	57.81	22.43	334.27
0.00	4	SLE Q	1	2	0.00	-108381.00	-155.56	707.48	0.00	57.81	18.62	277.53
0.00	2	SLE R	1	2	0.00	-130383.00	-188.74	877.69	0.00	57.81	22.43	334.27
0.00	4	SLE Q	1	2	0.00	-108381.00	-155.56	707.48	0.00	57.81	18.62	277.53
3.50	2	SLE R	1	2	350.00	-125763.00	376.06	35.65	0.00	57.81	21.09	314.90
3.50	4	SLE Q	1	2	350.00	-103761.00	306.41	25.00	0.00	57.81	17.39	259.67
3.50	2	SLE R	2	21	0.00	-113525.00	-138.20	35.65	0.00	45.74	22.68	339.24
3.50	4	SLE Q	2	21	0.00	-93833.10	-111.66	25.00	0.00	45.74	18.74	280.25
3.50	2	SLE R	2	21	0.00	-113525.00	-138.20	35.65	0.00	53.78	22.16	331.45
3.50	4	SLE Q	2	21	0.00	-93833.10	-111.66	25.00	0.00	53.78	18.31	273.81
6.50	2	SLE R	2	21	300.00	-111995.00	251.72	-31.17	0.00	53.78	22.12	330.11
6.50	4	SLE Q	2	21	300.00	-92303.10	204.42	-21.86	0.00	53.78	18.22	271.92
6.50	2	SLE R	3	21	0.00	-99783.60	-257.11	-31.17	0.00	16.09	46.09	680.63
6.50	4	SLE Q	3	21	0.00	-82395.60	-209.49	-21.86	0.00	16.09	38.02	561.59
6.50	2	SLE R	3	21	0.00	-99783.60	-257.11	-31.17	0.00	16.09	46.09	680.63
6.50	4	SLE Q	3	21	0.00	-82395.60	-209.49	-21.86	0.00	16.09	38.02	561.59
9.50	2	SLE R	3	21	300.00	-98253.60	312.27	18.49	0.00	16.09	45.86	674.92
9.50	4	SLE Q	3	21	300.00	-80865.60	253.78	17.27	0.00	16.09	37.72	555.29
9.50	2	SLE R	4	21	0.00	-86016.00	-201.82	18.49	0.00	16.09	39.53	584.55
9.50	4	SLE Q	4	21	0.00	-70936.80	-164.39	17.27	0.00	16.09	32.59	481.98
9.50	2	SLE R	4	21	0.00	-86016.00	-201.82	18.49	0.00	16.09	39.53	584.55
9.50	4	SLE Q	4	21	0.00	-70936.80	-164.39	17.27	0.00	16.09	32.59	481.98
12.50	2	SLE R	4	21	300.00	-84486.00	220.92	-64.02	0.00	16.09	39.19	578.33
12.50	4	SLE Q	4	21	300.00	-69406.80	180.37	-58.25	0.00	16.09	32.21	475.27
12.50	2	SLE R	5	21	0.00	-72236.80	-295.52	-64.02	0.00	16.09	34.47	504.48
12.50	4	SLE Q	5	21	0.00	-59467.10	-239.97	-58.25	0.00	16.09	28.37	415.26
12.50	2	SLE R	5	21	0.00	-72236.80	-295.52	-64.02	0.00	16.09	34.47	504.48
12.50	4	SLE Q	5	21	0.00	-59467.10	-239.97	-58.25	0.00	16.09	28.37	415.26
15.50	2	SLE R	5	21	300.00	-70706.80	500.14	-22.11	0.00	16.09	35.43	510.82
15.50	4	SLE Q	5	21	300.00	-57937.10	406.37	-19.93	0.00	16.09	29.01	418.34
15.50	2	SLE R	6	22	0.00	-58549.60	-320.12	-22.11	0.00	8.04	36.43	522.73
15.50	4	SLE Q	6	22	0.00	-48070.90	-260.55	-19.93	0.00	8.04	29.89	429.00
15.50	2	SLE R	6	22	0.00	-58549.60	-320.12	-22.11	0.00	12.06	35.25	505.82
15.50	4	SLE Q	6	22	0.00	-48070.90	-260.55	-19.93	0.00	12.06	28.92	415.13
18.50	2	SLE R	6	22	300.00	-57274.60	428.21	-12.84	0.00	12.06	35.88	507.82
18.50	4	SLE Q	6	22	300.00	-46795.90	349.03	-11.64	0.00	12.06	29.31	414.88
18.50	2	SLE R	7	22	0.00	-45107.50	-394.02	-12.84	0.00	12.06	28.99	406.77
18.50	4	SLE Q	7	22	0.00	-36921.00	-319.62	-11.64	0.00	12.06	23.69	332.67
18.50	2	SLE R	7	22	0.00	-45107.50	-394.02	-12.84	0.00	12.06	28.99	406.77
18.50	4	SLE Q	7	22	0.00	-36921.00	-319.62	-11.64	0.00	12.06	23.69	332.67
21.50	2	SLE R	7	22	300.00	-43832.50	528.17	-34.95	0.00	12.06	30.09	413.65
21.50	4	SLE Q	7	22	300.00	-35646.00	426.97	-26.52	0.00	12.06	24.43	335.98
21.50	2	SLE R	8	22	0.00	-31657.90	-295.58	-34.95	0.00	12.06	20.70	289.23
21.50	4	SLE Q	8	22	0.00	-25763.90	-243.11	-26.52	0.00	12.06	16.87	235.57
21.50	2	SLE R	8	22	0.00	-31657.90	-295.58	-34.95	0.00	12.06	20.70	289.23
21.50	4	SLE Q	8	22	0.00	-25763.90	-243.11	-26.52	0.00	12.06	16.87	235.57
24.50	2	SLE R	8	22	300.00	-30382.90	248.61	79.78	0.00	12.06	19.63	276.13
24.50	4	SLE Q	8	22	300.00	-24488.90	210.92	56.17	0.00	12.06	15.92	223.33
24.50	2	SLE R	9	22	0.00	-18202.40	-576.31	79.78	0.00	12.06	17.27	217.51
24.50	4	SLE Q	9	22	0.00	-14601.70	-460.21	56.17	0.00	12.06	13.79	173.78
24.50	2	SLE R	9	22	0.00	-18202.40	-576.31	79.78	0.00	12.06	17.27	217.51
24.50	4	SLE Q	9	22	0.00	-14601.70	-460.21	56.17	0.00	12.06	13.79	173.78
27.50	2	SLE R	9	22	300.00	-16927.40	1142.83	0.00	6.03	6.03	24.93	277.84
27.50	4	SLE Q	9	22	300.00	-13326.70	901.73	0.00	6.03	6.03	19.67	219.05

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0	X1	Staff.	Br _y	Br _z	StCam.	CC	TCC	b _{w,y}	d _{r,y}	Vsdu _y	ctgθ _y	VRsd _y	VRsdCam _y	VRcd _y	Vrd _y	b _{w,z}	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRsdCam _z	VRcd _z	Vrd _z	S
<m>	<m>							<m>	<m>	<daN>		<daN>	<daN>	<daN>	<daN>	<m>	<m>	<daN>		<daN>	<daN>	<daN>	<daN>	>1
0.00	0.68	ø8/20	2	2	ø8/10	1	SLU	0.88	0.55	231.44	2.50	0.00	48858.10	132807.00	43972.30	0.60	0.83	334.18	2.50	0.00	73641.10	136482.00	66277.00	>1
0.68	2.58	ø8/20	2	2	ø8/10	1	SLU	0.88	0.55	231.44	2.50	0.00	48858.10	132641.00	43972.30	0.60	0.83	334.18	2.50	0.00	73641.10	136311.00	66277.00	>1

Relazione di calcolo

2.58	3.50	ø8/20	2	2	ø8/10	1	SLU	0.88	0.55	231.44	2.50	0.00	48858.10	132175.00	43972.30	0.60	0.83	334.18	2.50	0.00	73641.10	135832.00	66277.00	>10
3.50	3.50	ø6/15	2	2	ø8/10	1	SLU	0.88	0.45	231.44	2.50	0.00	40007.00	108861.00	36006.30	0.50	0.83	334.18	2.50	0.00	73641.10	113853.00	66277.00	>10
4.18	5.82	ø6/15	2	2	ø8/10	1	SLU	0.88	0.45	186.29	2.50	0.00	40007.00	108861.00	36006.30	0.50	0.83	30.95	2.50	0.00	73641.10	113853.00	66277.00	>10
5.82	6.50	ø6/15	2	2	ø8/10	1	SLU	0.88	0.45	186.29	2.50	0.00	40007.00	108861.00	36006.30	0.50	0.83	30.95	2.50	0.00	73641.10	113853.00	66277.00	>10
6.50	4.18	ø6/15	2	2	---	1	SLU	0.68	0.25	272.20	2.50	6634.02	---	11600.20	6634.02	0.30	0.63	30.95	2.14	14296.80	---	14296.80	14296.80	24
4.18	5.58	ø6/15	2	2	---	1	SLU	0.68	0.25	186.29	2.50	6634.02	---	11600.20	6634.02	0.30	0.63	30.95	2.14	14296.80	---	14296.80	14296.80	35
5.58	9.50	ø6/15	2	2	---	1	SLU	0.68	0.25	272.20	2.50	6634.02	---	11901.50	6634.02	0.30	0.63	30.95	2.18	14521.10	---	14521.10	14521.10	24
9.50	6.50	ø6/15	2	2	---	1	SLU	0.68	0.25	201.94	2.50	6634.02	---	12099.50	6634.02	0.30	0.63	39.63	2.20	14666.60	---	14666.60	14666.60	32
10.18	11.82	ø6/15	2	2	---	1	SLU	0.68	0.25	201.94	2.50	6634.02	---	24280.80	6634.02	0.30	0.63	39.63	2.50	16677.60	---	26929.60	16677.60	32
11.82	12.50	ø6/15	2	2	---	1	SLU	0.68	0.25	201.94	2.50	6634.02	---	24633.70	6634.02	0.30	0.63	39.63	2.50	16677.60	---	27321.00	16677.60	32
12.50	7.18	ø6/15	2	2	---	1	SLU	0.68	0.25	380.31	2.50	6634.02	---	17934.50	6634.02	0.30	0.63	22.93	2.50	16677.60	---	19891.00	16677.60	17
7.18	8.58	ø6/15	2	2	---	1	SLU	0.68	0.25	272.20	2.50	6634.02	---	17934.50	6634.02	0.30	0.63	22.93	2.50	16677.60	---	19891.00	16677.60	24
8.58	15.50	ø6/15	2	2	---	1	SLU	0.68	0.25	380.31	2.50	6634.02	---	18235.80	6634.02	0.30	0.63	22.93	2.50	16677.60	---	20225.10	16677.60	17
15.50	9.50	ø6/15	2	2	---	1	SLU	0.68	0.20	357.47	2.50	5312.50	---	7473.31	5312.50	0.25	0.63	22.93	1.66	11061.80	---	11061.80	11061.80	14
16.18	17.82	ø6/15	2	2	---	1	SLU	0.68	0.20	357.47	2.50	5312.50	---	25234.20	5312.50	0.25	0.63	4.46	2.50	16677.60	---	29124.10	16677.60	14
17.82	18.50	ø6/15	2	2	---	1	SLU	0.68	0.20	357.47	2.50	5312.50	---	25516.80	5312.50	0.25	0.63	4.46	2.50	16677.60	---	29450.30	16677.60	14
18.50	10.18	ø6/15	2	2	---	1	SLU	0.68	0.20	441.58	2.50	5312.50	---	13092.10	5312.50	0.25	0.63	39.63	2.36	15742.30	---	15742.30	15742.30	12
10.18	11.58	ø6/15	2	2	---	1	SLU	0.68	0.20	201.94	2.50	5312.50	---	13092.10	5312.50	0.25	0.63	39.63	2.36	15742.30	---	15742.30	15742.30	26
11.58	21.50	ø6/15	2	2	---	1	SLU	0.68	0.20	441.58	2.50	5312.50	---	13381.60	5312.50	0.25	0.63	39.63	2.39	15946.30	---	15946.30	15946.30	12
21.50	12.50	ø6/15	2	2	---	1	SLU	0.68	0.20	257.32	2.50	5312.50	---	13571.80	5312.50	0.25	0.63	54.70	2.41	16078.90	---	16078.90	16078.90	20
22.18	23.82	ø6/15	2	2	---	1	SLU	0.68	0.20	257.32	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	54.70	2.50	16677.60	---	29548.40	16677.60	20
23.82	24.50	ø6/15	2	2	---	1	SLU	0.68	0.20	257.32	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	54.70	2.50	16677.60	---	29548.40	16677.60	20
24.50	13.18	ø6/15	2	2	---	1	SLU	0.68	0.20	830.59	2.50	5312.50	---	19195.50	5312.50	0.25	0.63	38.24	2.50	16677.60	---	22154.60	16677.60	6
13.18	14.58	ø6/15	2	2	---	1	SLU	0.68	0.20	380.31	2.50	5312.50	---	19195.50	5312.50	0.25	0.63	20.58	2.50	16677.60	---	22154.60	16677.60	13
14.58	27.50	ø6/15	2	2	---	1	SLU	0.68	0.20	830.59	2.50	5312.50	---	19485.00	5312.50	0.25	0.63	38.24	2.50	16677.60	---	22488.80	16677.60	6
15.50	16.18	ø6/15	2	2	---	1	SLU	0.68	0.20	357.47	2.50	5312.50	---	25117.00	5312.50	0.25	0.63	4.46	2.50	16677.60	---	28988.90	16677.60	14
16.18	17.58	ø6/15	2	2	---	1	SLU	0.68	0.20	357.47	2.50	5312.50	---	25234.20	5312.50	0.25	0.63	4.46	2.50	16677.60	---	29124.10	16677.60	14
17.58	18.26	ø6/15	2	2	---	1	SLU	0.68	0.20	357.47	2.50	5312.50	---	25475.40	5312.50	0.25	0.63	4.46	2.50	16677.60	---	29402.60	16677.60	14
18.50	19.18	ø6/15	2	2	---	1	SLU	0.68	0.20	441.58	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	10.44	2.50	16677.60	---	29548.40	16677.60	12
19.18	20.58	ø6/15	2	2	---	1	SLU	0.68	0.20	441.58	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	10.44	2.50	16677.60	---	29548.40	16677.60	12
20.58	21.26	ø6/15	2	2	---	1	SLU	0.68	0.20	441.58	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	10.44	2.50	16677.60	---	29548.40	16677.60	12
21.50	22.18	ø6/15	2	2	---	1	SLU	0.68	0.20	257.32	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	54.70	2.50	16677.60	---	29548.40	16677.60	20
22.18	23.58	ø6/15	2	2	---	1	SLU	0.68	0.20	257.32	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	54.70	2.50	16677.60	---	29548.40	16677.60	20
23.58	24.26	ø6/15	2	2	---	1	SLU	0.68	0.20	257.32	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	54.70	2.50	16677.60	---	29548.40	16677.60	20
24.50	25.18	ø6/15	2	2	---	1	SLU	0.68	0.20	830.59	2.50	5312.50	---	23757.00	5312.50	0.25	0.63	38.24	2.50	16677.60	---	27419.20	16677.60	6
25.18	26.58	ø6/15	2	2	---	1	SLU	0.68	0.20	830.59	2.50	5312.50	---	23710.10	5312.50	0.25	0.63	38.24	2.50	16677.60	---	27365.10	16677.60	6
26.58	27.26	ø6/15	2	2	---	1	SLU	0.68	0.20	830.59	2.50	5312.50	---	23613.60	5312.50	0.25	0.63	38.24	2.50	16677.60	---	27253.80	16677.60	6

Pilastrata n. 24

Nodi: 24 324 524 724 924 1124 1324 1524 1724 1924

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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cmq>	Fcd <daN/cmq>	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	88.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

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>	esp.	Sic.	Δ%
0.00	1(e)	SLU	1	2	0.00	-196439.00	1240.14	3928.79	-336.81	-3928.79	-964574.00	112980.00	-73923.20	1.09	4.910	106.97
0.00	1(e)	SLU	1	2	0.00	-196439.00	1240.14	3928.79	-336.81	-3928.79	-964574.00	112980.00	-73923.20	1.09	4.910	106.97
3.50	1(e)	SLU	1	2	350.00	-190433.00	40.83	3808.67	683.54	3808.67	-964574.00	112175.00	73398.60	1.08	5.065	106.97
3.50	1(e)	SLU	2	21	0.00	-171999.00	40.83	3439.99	-248.83	-3439.99	-797177.00	97465.20	-51568.90	1.10	4.635	145.80
3.50	1(e)	SLU	2	21	0.00	-171999.00	40.83	3439.99	-248.83	-3439.99	-825996.00	102264.00	-53096.40	1.09	4.802	133.90
6.50	1(e)	SLU	2	21	300.00	-170010.00	-12.36	-3400.21	450.23	3400.21	-825996.00	-102038.00	53012.50	1.09	4.859	133.90
6.50	1(e)	SLU	3	21	0.00	-151292.00	-12.36	-3025.84	-453.67	-3025.84	-353140.00	-37098.50	-14851.50	1.27	2.334	---
6.50	1(e)	SLU	3	21	0.00	-151292.00	-12.36	-3025.84	-453.67	-3025.84	-353140.00	-37098.50	-14851.50	1.27	2.334	---
9.50	1(e)	SLU	3	21	300.00	-149303.00	64.21	2986.06	547.74	2986.06	-353140.00	37104.30	14904.90	1.27	2.365	---
9.50	1(e)	SLU	4	21	0.00	-130584.00	64.21	2611.69	-356.16	-2611.69	-353140.00	36831.40	-15113.00	1.22	2.704	---
9.50	1(e)	SLU	4	21	0.00	-130584.00	64.21	2611.69	-356.16	-2611.69	-353140.00	36831.40	-15113.00	1.22	2.704	---
12.50	1(e)	SLU	4	21	300.00	-128595.00	-134.29	-2571.91	397.29	2571.91	-353140.00	-36769.30	15085.20	1.22	2.746	---
12.50	1(e)	SLU	5	21	0.00	-109877.00	-134.29	-2197.54	-506.61	-2197.54	-353140.00	-35902.80	-14702.90	1.18	3.214	---
12.50	1(e)	SLU	5	21	0.00	-109877.00	-134.29	-2197.54	-506.61	-2197.54	-353140.00	-35902.80	-14702.90	1.18	3.214	---
15.50	1(e)	SLU	5	21	300.00	-107888.00	-36.34	-2157.76	842.14	2157.76	-353140.00	-35782.70	14650.30	1.17	3.273	---
15.50	1(e)	SLU	6	22	0.00	-89169.30	-36.34	-1783.39	-535.06	-1783.39	-275071.00	-24748.30	-9245.48	1.19	3.085	---
15.50	1(e)	SLU	6	22	0.00	-89169.30	-36.34	-1783.39	-535.06	-1783.39	-289480.00	-27688.60	-10369.40	1.17	3.246	---
18.50	1(e)	SLU	6	22	300.00	-87511.80	-23.35	-1750.24	716.32	1750.24	-289480.00	-27588.00	10314.00	1.17	3.308	---
18.50	1(e)	SLU	7	22	0.00	-68793.30	-23.35	-1375.87	-660.88	-1375.87	-289480.00	-26236.50	-9467.45	1.11	4.208	---
18.50	1(e)	SLU	7	22	0.00	-68793.30	-23.35	-1375.87	-660.88	-1375.87	-289480.00	-26236.50	-9467.45	1.11	4.208	---
21.50	1(e)	SLU	7	22	300.00	-67135.80	-64.80	-1342.72	886.56	1342.72	-289480.00	-26100.60	9369.24	1.11	4.312	---
21.50	1(e)	SLU	8	22	0.00	-48417.20	-64.80	-968.34	-490.64	-968.34	-289480.00	-24203.80	-8145.40	1.06	5.979	---
21.50	1(e)	SLU	8	22	0.00	-48417.20	-64.80	-968.34	-490.64	-968.34	-289480.00	-24203.80	-8145.40	1.06	5.979	---
24.50	1(e)	SLU	8	22	300.00	-46759.70	166.50	935.19	405.25	935.19	-289480.00	23932.10	8028.08	1.05	6.191	---
24.50	1(e)	SLU	9	22	0.00	-28041.20	166.50	560.82	-971.95	-971.95	-28046.10	20320.20	-6615.20	1.00	5.730	---
24.50	1(e)	SLU	9	22	0.00	-28041.20	166.50	560.82	-971.95	-971.95	-28046.10	20320.20	-6615.20	1.00	5.730	---
27.50	1(e)	SLU	9	22	300.00	-26383.70	0.00	-527.67	1941.15	1941.15	-26386.30	-19952.70	6484.41	1.00	5.309	---

Relazione di calcolo

3.50	2	SLE R	2	21	0.00	-120635.00	-173.44	30.46	0.00	45.74	24.15	361.10
3.50	4	SLE Q	2	21	0.00	-99490.10	-139.86	18.94	0.00	45.74	19.91	297.62
3.50	2	SLE R	2	21	0.00	-120635.00	-173.44	30.46	0.00	53.78	23.60	352.82
3.50	4	SLE Q	2	21	0.00	-99490.10	-139.86	18.94	0.00	53.78	19.45	290.79
6.50	2	SLE R	2	21	300.00	-119105.00	313.66	-10.27	0.00	53.78	23.60	351.96
6.50	4	SLE Q	2	21	300.00	-97960.10	253.95	-2.09	0.00	53.78	19.40	289.26
6.50	2	SLE R	3	21	0.00	-106067.00	-315.94	-10.27	0.00	16.09	49.28	726.25
6.50	4	SLE Q	3	21	0.00	-87388.90	-256.53	-2.09	0.00	16.09	40.55	597.72
6.50	2	SLE R	3	21	0.00	-106067.00	-315.94	-10.27	0.00	16.09	49.28	726.25
6.50	4	SLE Q	3	21	0.00	-87388.90	-256.53	-2.09	0.00	16.09	40.55	597.72
9.50	2	SLE R	3	21	300.00	-104537.00	381.45	45.65	0.00	16.09	49.31	723.72
9.50	4	SLE Q	3	21	300.00	-85858.90	309.11	43.12	0.00	16.09	40.48	594.29
9.50	2	SLE R	4	21	0.00	-91499.00	-248.15	45.65	0.00	16.09	42.44	626.03
9.50	4	SLE Q	4	21	0.00	-75287.70	-201.37	43.12	0.00	16.09	34.91	515.12
9.50	2	SLE R	4	21	0.00	-91499.00	-248.15	45.65	0.00	16.09	42.44	626.03
9.50	4	SLE Q	4	21	0.00	-75287.70	-201.37	43.12	0.00	16.09	34.91	515.12
12.50	2	SLE R	4	21	300.00	-89969.00	276.67	-91.37	0.00	16.09	42.18	620.66
12.50	4	SLE Q	4	21	300.00	-73757.70	224.79	-87.03	0.00	16.09	34.60	509.21
12.50	2	SLE R	5	21	0.00	-76930.90	-352.93	-91.37	0.00	16.09	37.13	541.77
12.50	4	SLE Q	5	21	0.00	-63186.50	-285.69	-87.03	0.00	16.09	30.50	445.16
12.50	2	SLE R	5	21	0.00	-76930.90	-352.93	-91.37	0.00	16.09	37.13	541.77
12.50	4	SLE Q	5	21	0.00	-63186.50	-285.69	-87.03	0.00	16.09	30.50	445.16
15.50	2	SLE R	5	21	300.00	-75400.90	586.46	-25.61	0.00	16.09	38.25	549.60
15.50	4	SLE Q	5	21	300.00	-61656.50	475.16	-22.84	0.00	16.09	31.25	449.11
15.50	2	SLE R	6	22	0.00	-62362.70	-372.81	-25.61	0.00	8.04	39.23	560.77
15.50	4	SLE Q	6	22	0.00	-51085.30	-302.61	-22.84	0.00	8.04	32.11	459.13
15.50	2	SLE R	6	22	0.00	-62362.70	-372.81	-25.61	0.00	12.06	37.95	542.62
15.50	4	SLE Q	6	22	0.00	-51085.30	-302.61	-22.84	0.00	12.06	31.06	444.28
18.50	2	SLE R	6	22	300.00	-61087.70	499.42	-16.55	0.00	12.06	38.82	546.81
18.50	4	SLE Q	6	22	300.00	-49810.30	405.91	-14.63	0.00	12.06	31.64	445.77
18.50	2	SLE R	7	22	0.00	-48049.60	-459.85	-16.55	0.00	12.06	31.39	438.18
18.50	4	SLE Q	7	22	0.00	-39239.10	-371.86	-14.63	0.00	12.06	25.60	357.47
18.50	2	SLE R	7	22	0.00	-48049.60	-459.85	-16.55	0.00	12.06	31.39	438.18
18.50	4	SLE Q	7	22	0.00	-39239.10	-371.86	-14.63	0.00	12.06	25.60	357.47
21.50	2	SLE R	7	22	300.00	-46774.60	615.96	-46.06	0.00	12.06	32.81	448.07
21.50	4	SLE Q	7	22	300.00	-37964.10	496.33	-36.04	0.00	12.06	26.58	363.17
21.50	2	SLE R	8	22	0.00	-33736.40	-343.31	-46.06	0.00	12.06	22.45	312.05
21.50	4	SLE Q	8	22	0.00	-27392.80	-281.43	-36.04	0.00	12.06	18.26	253.61
21.50	2	SLE R	8	22	0.00	-33736.40	-343.31	-46.06	0.00	12.06	22.45	312.05
21.50	4	SLE Q	8	22	0.00	-27392.80	-281.43	-36.04	0.00	12.06	18.26	253.61
24.50	2	SLE R	8	22	300.00	-32461.40	287.40	116.05	0.00	12.06	21.39	299.37
24.50	4	SLE Q	8	22	300.00	-26117.80	243.08	85.72	0.00	12.06	17.32	241.82
24.50	2	SLE R	9	22	0.00	-19423.20	-671.87	116.05	0.00	12.06	19.28	240.58
24.50	4	SLE Q	9	22	0.00	-15546.60	-534.69	85.72	0.00	12.06	15.36	191.79
24.50	2	SLE R	9	22	0.00	-19423.20	-671.87	116.05	0.00	12.06	19.28	240.58
24.50	4	SLE Q	9	22	0.00	-15546.60	-534.69	85.72	0.00	12.06	15.36	191.79
27.50	2	SLE R	9	22	300.00	-18148.20	1335.24	0.00	6.03	6.03	29.04	315.04
27.50	4	SLE Q	9	22	300.00	-14271.60	1050.02	0.00	6.03	6.03	22.84	247.74

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <m>	d _y <m>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <m>	d _z <m>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	S
0.00	0.68	ø8/20	2	2	ø8/10	1	SLU	0.88	0.55	291.53	2.50	0.00	48858.10	132945.00	43972.30	0.60	0.83	342.66	2.50	0.00	73641.10	136624.00	66277.00	>19
0.68	2.58	ø8/20	2	2	ø8/10	1	SLU	0.88	0.55	291.53	2.50	0.00	48858.10	132945.00	43972.30	0.60	0.83	342.66	2.50	0.00	73641.10	136624.00	66277.00	>19
2.58	3.50	ø8/20	2	2	ø8/10	1	SLU	0.88	0.55	291.53	2.50	0.00	48858.10	132945.00	43972.30	0.60	0.83	342.66	2.50	0.00	73641.10	136624.00	66277.00	>19
3.50	3.50	ø6/15	2	2	ø8/10	1	SLU	0.88	0.45	291.53	2.50	0.00	40007.00	108861.00	36006.30	0.50	0.83	342.66	2.50	0.00	73641.10	113853.00	66277.00	>19
4.18	5.82	ø6/15	2	2	ø8/10	1	SLU	0.88	0.45	233.02	2.50	0.00	40007.00	108861.00	36006.30	0.50	0.83	17.73	2.50	0.00	73641.10	113853.00	66277.00	>19
5.82	6.50	ø6/15	2	2	ø8/10	1	SLU	0.88	0.45	233.02	2.50	0.00	40007.00	108861.00	36006.30	0.50	0.83	17.73	2.50	0.00	73641.10	113853.00	66277.00	>19
6.50	4.18	ø6/15	2	2	---	1	SLU	0.68	0.25	333.80	2.50	6634.02	---	8261.28	6634.02	0.30	0.63	25.52	1.73	11521.90	---	11522.00	11521.90	19
4.18	5.58	ø6/15	2	2	---	1	SLU	0.68	0.25	233.02	2.50	6634.02	---	8261.28	6634.02	0.30	0.63	17.73	1.73	11521.90	---	11522.00	11521.90	28
5.58	9.50	ø6/15	2	2	---	1	SLU	0.68	0.25	333.81	2.50	6634.02	---	8562.54	6634.02	0.30	0.63	25.52	1.77	11799.10	---	11799.10	11799.10	19
9.50	6.50	ø6/15	2	2	---	1	SLU	0.68	0.25	251.15	2.50	6634.02	---	8760.51	6634.02	0.30	0.63	66.17	1.80	11977.80	---	11977.80	11977.80	26
10.18	11.82	ø6/15	2	2	---	1	SLU	0.68	0.25	251.15	2.50	6634.02	---	21703.30	6634.02	0.30	0.63	66.17	2.50	16677.60	---	24071.00	16677.60	26
11.82	12.50	ø6/15	2	2	---	1	SLU	0.68	0.25	251.15	2.50	6634.02	---	22056.20	6634.02	0.30	0.63	66.17	2.50	16677.60	---	24462.40	16677.60	26
12.50	7.18	ø6/15	2	2	---	1	SLU	0.68	0.25	449.58	2.50	6634.02	---	14982.30	6634.02	0.30	0.63	32.65	2.49	16642.30	---	16642.30	16642.30	14
7.18	8.58	ø6/15	2	2	---	1	SLU	0.68	0.25	333.81	2.50	6634.02	---	14982.30	6634.02	0.30	0.63	25.52	2.49	16642.30	---	16642.30	16642.30	19
8.58	15.50	ø6/15	2	2	---	1	SLU	0.68	0.25	449.58	2.50	6634.02	---	15283.60	6634.02	0.30	0.63	32.65	2.50	16677.60	---	16950.90	16677.60	14
15.50	9.50	ø6/15	2	2	---	1	SLU	0.68	0.20	417.13	2.31	4904.70	---	4904.70	4904.70	0.25	0.63	25.52	1.15	7682.43	---	7682.43	7682.43	11
16.18	17.82	ø6/15	2	2	---	1	SLU	0.68	0.20	417.13	2.50	5312.50	---	23509.00	5312.50	0.25	0.63	4.33	2.50	16677.60	---	27133.10	16677.60	12
17.82	18.50	ø6/15	2	2	---	1	SLU	0.68	0.20	417.13	2.50	5312.50	---	23791.60	5312.50	0.25	0.63	4.33	2.50	16677.60	---	27459.30	16677.60	12
18.50	10.18	ø6/15	2	2	---	1	SLU	0.68	0.20	515.81	2.50	5312.50	---	10615.20	5312.50	0.25	0.63	66.17	2.08	13875.10	---	13875.10	13875.10	10
10.18	11.58	ø6/15	2	2	---	1	SLU	0.68	0.20	251.15	2.50	5312.50	---	10615.20	5312.50	0.25	0.63	66.17	2.08	13875.10	---	13875.10	13875.10	21
11.58	21.50	ø6/15	2	2	---	1	SLU	0.68	0.20	515.81	2.50	5312.50	---	10904.70	5312.50	0.25	0.63	66.17	2.11	14106.10	---	14106.10	14106.10	10
21.50	12.50	ø6/15	2	2	---	1	SLU	0.68	0.20	298.63	2.50	5312.50	---	11095.00	5312.50	0.25	0.63	77.10	2.14	14255.80	---	14255.80	14255.80	17
22.18	23.82	ø6/15	2	2	---	1	SLU	0.68	0.20	298.63	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	77.10	2.50	16677.60	---	29548.40	16677.60	17
23.82	24.50	ø6/15	2	2	---	1	SLU	0.68	0.20	298.63	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	77.10	2.50	16677.60	---	29548.40	16677.60	17
24.50	13.18	ø6/15	2	2	---	1	SLU	0.68	0.20	971.03	2.50	5312.50	---	17073.90	5312.50	0.25	0.63	55.50	2.50	16677.60	---	19705.90	16677.60	5
13.18	14.58	ø6/15	2	2	---	1	SLU	0.68	0.20	449.58	2.50	5312.50	---	17073.90	5312.50	0.25	0.63	32.65	2.50	16677.60	---	19705.90	16677.60	11
14.58	27.50	ø6/15	2	2	---	1	SLU	0.68	0.20	971.03	2.50	5312.50	---	17363.40	5312.50	0.25	0.63	55.50	2.50	16677.60	---	20040.00	16677.60	5
15.50	16.18	ø6/15	2	2	---	1	SLU	0.68	0.20	417.13	2.50	5312.50	---	23391.90	5312.50	0.25	0.63	4.33	2.50	16677.60	---	26997.80	16677.60	12
16.18	17.58	ø6/15	2	2	---	1	SLU	0.68	0.20	417.13	2.50	5312.50	---	23509.00	5312.50	0.25	0.63	4.33	2.50	16677.60	---	27133.10	16677.60	12
17.58	18.26	ø6/15	2	2	---	1	SLU	0.68	0.20	417.13	2.50	5312.50	---	23750.30	5312.50	0.25	0.63	4.33	2.50	16677.60	---	27411.50	16677.60	12
18.50	19.18	ø6/15	2	2	---	1	SLU	0.68	0.20	515.81	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	13.82	2.50	16677.60	---	29548.40	16677.60	10
19.18	20.58	ø6/15	2	2	---	1	SLU	0.68	0.20	515.81	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	13.82	2.50	16677.60	---	29548.40	16677.60	10
20.58	21.26	ø6/15	2	2	---	1	SLU	0.68	0.20	515.81	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	13.82	2.50	16677.60	---	29548.40	16677.60	10
21.50	22.18	ø6/15	2	2	---	1	SLU	0.68	0.20	298.63	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	77.10	2.50	16677.60	---	29548.40	16677.60	17
22.18	23.58	ø6/15	2	2	---	1	SLU	0.68	0.20	298.63	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	77.10	2.50	16677.60	---	29548.40	16677.60	17
23.58	24.26	ø6/15	2	2	---	1	SLU	0.68	0.20	298.63	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	77.10	2.50	16677.60	---	29548.40	16677.60	17

Relazione di calcolo

24.50	25.18	ø6/15	2	2	---	1	SLU	0.68	0.20	971.03	2.50	5312.50	---	23979.80	5312.50	0.25	0.63	55.50	2.50	16677.60	---	27676.40	16677.60	5
25.18	26.58	ø6/15	2	2	---	1	SLU	0.68	0.20	971.03	2.50	5312.50	---	23932.90	5312.50	0.25	0.63	55.50	2.50	16677.60	---	27622.30	16677.60	5
26.58	27.26	ø6/15	2	2	---	1	SLU	0.68	0.20	971.03	2.50	5312.50	---	23836.40	5312.50	0.25	0.63	55.50	2.50	16677.60	---	27510.90	16677.60	5

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/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
60	R	25.00	68.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
60	R	25.00	68.00	4.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cmq>	Fcd <daN/cmq>	Fyk <daN/cmq>	Fyd <daN/cmq>
45.00	88.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione con rinforzi

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>	esp.	Sic.	Δ%	
0.00	1	(e)	SLU	1	60	0.00	-127929.00	831.70	2558.59	-470.73	-2558.59	-778322.00	95957.50	-43846.70	1.05	6.084	144.53
0.00	1	(e)	SLU	1	60	0.00	-127929.00	831.70	2558.59	-470.73	-2558.59	-778322.00	95957.50	-43846.70	1.05	6.084	144.53
3.26	1	(e)	SLU	1	60	326.00	-123734.00	316.69	2474.67	863.01	2474.67	-778322.00	95378.00	43599.50	1.05	6.290	144.53
3.50	1	(e)	SLU	2	60	0.00	-111766.00	-216.46	-2235.31	-1096.82	-2235.31	-778322.00	-93669.40	-42879.00	1.04	6.964	144.53
3.50	1	(e)	SLU	2	60	0.00	-111766.00	-216.46	-2235.31	-1096.82	-2235.31	-763912.00	-92064.10	-41914.50	1.04	6.835	151.38
6.26	1	(e)	SLU	2	60	276.00	-108213.00	291.75	2164.27	747.58	2164.27	-763912.00	91586.40	41693.70	1.03	7.059	151.38
9.50	1	(e)	SLU	4	60	0.00	-83458.10	38.76	1669.16	-630.40	-1669.16	-303890.00	31550.20	-10313.40	1.15	3.641	---
9.50	1	(e)	SLU	4	60	0.00	-83458.10	38.76	1669.16	-630.40	-1669.16	-289480.00	27328.20	-10168.70	1.16	3.469	---
12.26	1	(e)	SLU	4	60	276.00	-81933.20	-101.03	-1638.66	559.16	1638.66	-289480.00	-27225.40	10111.10	1.15	3.533	---
12.50	1	(e)	SLU	5	60	0.00	-70397.30	-165.45	-1407.95	-578.98	-1407.95	-289480.00	-26366.10	-9558.51	1.12	4.112	---
12.50	1	(e)	SLU	5	60	0.00	-70397.30	-165.45	-1407.95	-578.98	-1407.95	-289480.00	-26366.10	-9558.51	1.12	4.112	---
15.26	1	(e)	SLU	5	60	276.00	-68872.40	20.77	1377.45	596.93	1377.45	-289480.00	26243.20	9471.65	1.11	4.203	---
15.50	1	(e)	SLU	6	60	0.00	-57138.70	-139.93	-1142.77	-638.05	-1142.77	-289480.00	-25238.60	-8743.40	1.08	5.066	---
15.50	1	(e)	SLU	6	60	0.00	-57138.70	-139.93	-1142.77	-638.05	-1142.77	-289480.00	-25238.60	-8743.40	1.08	5.066	---
18.26	1	(e)	SLU	6	60	276.00	-55613.80	75.65	1112.28	609.74	1112.28	-289480.00	25102.10	8640.33	1.08	5.205	---
18.50	1	(e)	SLU	7	60	0.00	-43845.00	-150.61	-876.90	-680.40	-876.90	-289480.00	-23435.30	-7817.90	1.04	6.602	---
18.50	1	(e)	SLU	7	60	0.00	-43845.00	-150.61	-876.90	-680.40	-876.90	-289480.00	-23435.30	-7817.90	1.04	6.602	---
21.26	1	(e)	SLU	7	60	276.00	-42320.10	57.58	846.40	704.84	846.40	-289480.00	23165.70	7705.36	1.04	6.840	---
21.50	1	(e)	SLU	8	60	0.00	-30529.10	-222.36	-610.58	-598.24	610.58	-30531.80	-20858.10	6810.83	1.00	8.512	---
21.50	1	(e)	SLU	8	60	0.00	-30529.10	-222.36	-610.58	-598.24	610.58	-30531.80	-20858.10	6810.83	1.00	8.512	---
24.26	1	(e)	SLU	8	60	276.00	-29004.20	340.66	-580.08	427.69	580.08	-29007.30	-20530.40	6690.87	1.00	8.703	---
24.50	1	(e)	SLU	9	60	0.00	-17186.90	62.77	343.74	-1003.84	-1003.84	-17190.00	17770.50	-5745.26	1.00	5.153	---
24.50	1	(e)	SLU	9	60	0.00	-17186.90	62.77	343.74	-1003.84	-1003.84	-17190.00	17770.50	-5745.26	1.00	5.153	---
27.26	1	(e)	SLU	9	60	276.00	-15662.00	106.54	-313.24	1558.56	1558.56	-15665.40	-17385.80	5620.93	1.00	3.386	---

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	26.94	64.52	---	1	3.50	26.94	64.52	---	1	3.50	26.94	64.52	---	2	3.00	23.09	69.01
---	2	3.00	23.09	69.01	---	2	3.00	23.09	69.01	---	3	3.00	41.57	40.09	---	3	3.00	41.57	40.09
---	3	3.00	41.57	40.09															

Stato limite ultimo - Verifiche a flessione/presoflessione - Controlli di stabilità con rinforzi

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdy, s <daNm>	MRdz <daNm>	MRdz, s <daNm>	esp.	Sic.	Δ%	
6.50	1	(e)	SLU	3	60	0.00	-96506.70	-37.61	-1930.13	-298.90	-1930.13	-303890.00	-32309.00	-31390.30	-10593.00	-8503.16	1.18	3.149	---
6.50	1	(e)	SLU	3	60	0.00	-96506.70	-37.61	-1930.13	-298.90	-1930.13	-303890.00	-32309.00	-31390.30	-10593.00	-8503.16	1.18	3.149	---
9.26	1	(e)	SLU	3	60	276.00	-94981.80	126.73	1899.64	480.87	1899.64	-303890.00	32232.60	31312.90	10564.10	8515.96	1.18	3.199	---

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	60	0.00	-91855.50	-327.93	591.29	0.00	57.81	20.73	306.68
0.00	4	SLE Q	1	60	0.00	-80096.50	-268.10	453.84	0.00	57.81	17.94	265.74
0.00	2	SLE R	1	60	0.00	-91855.50	-327.93	591.29	0.00	57.81	20.73	306.68
0.00	4	SLE Q	1	60	0.00	-80096.50	-268.10	453.84	0.00	57.81	17.94	265.74
3.26	2	SLE R	1	60	326.00	-88628.10	601.11	243.00	0.00	57.81	20.36	299.50
3.26	4	SLE Q	1	60	326.00	-76869.10	490.01	222.35	0.00	57.81	17.59	258.93
3.50	2	SLE R	2	60	0.00	-80118.90	-764.70	-169.27	0.00	57.81	18.96	277.14
3.50	4	SLE Q	2	60	0.00	-69620.70	-620.42	-201.30	0.00	57.81	16.42	240.33
3.50	2	SLE R	2	60	0.00	-80118.90	-764.70	-169.27	0.00	53.78	19.18	280.42
3.50	4	SLE Q	2	60	0.00	-69620.70	-620.42	-201.30	0.00	53.78	16.61	243.17
6.26	2	SLE R	2	60	276.00	-77386.50	521.27	221.36	0.00	53.78	17.99	264.69
6.26	4	SLE Q	2	60	276.00	-66888.30	424.62	233.88	0.00	53.78	15.53	228.67
6.50	2	SLE R	3	60	0.00	-69058.30	-208.40	-36.09	0.00	16.09	38.34	560.05
6.50	4	SLE Q	3	60	0.00	-59782.70	-170.61	-36.40	0.00	16.09	33.09	483.96
6.50	2	SLE R	3	60	0.00	-69058.30	-208.40	-36.09	0.00	16.09	38.34	560.05
6.50	4	SLE Q	3	60	0.00	-59782.70	-170.61	-36.40	0.00	16.09	33.09	483.96
9.26	2	SLE R	3	60	276.00	-67885.20	335.27	99.37	0.00	16.09	39.60	569.33
9.26	4	SLE Q	3	60	276.00	-58609.70	274.03	108.21	0.00	16.09	34.09	490.94
9.50	2	SLE R	4	60	0.00	-59695.60	-439.58	15.72	0.00	16.09	36.34	513.78
9.50	4	SLE Q	4	60	0.00	-51635.80	-359.48	-3.86	0.00	16.09	31.13	441.44

Relazione di calcolo

9.50	2	SLE R	4	60	0.00	-59695.60	-439.58	15.72	0.00	12.06	37.33	528.62
9.50	4	SLE Q	4	60	0.00	-51635.80	-359.48	-3.86	0.00	12.06	31.98	454.25
12.26	2	SLE R	4	60	276.00	-58522.60	389.81	-56.31	0.00	12.06	36.26	515.77
12.26	4	SLE Q	4	60	276.00	-50462.80	318.94	-37.36	0.00	12.06	31.00	442.07
12.50	2	SLE R	5	60	0.00	-50322.20	-403.86	-125.07	0.00	12.06	32.38	456.01
12.50	4	SLE Q	5	60	0.00	-43474.00	-330.19	-142.12	0.00	12.06	27.90	393.73
12.50	2	SLE R	5	60	0.00	-50322.20	-403.86	-125.07	0.00	12.06	32.38	456.01
12.50	4	SLE Q	5	60	0.00	-43474.00	-330.19	-142.12	0.00	12.06	27.90	393.73
15.26	2	SLE R	5	60	276.00	-49149.20	416.41	27.33	0.00	12.06	31.48	442.47
15.26	4	SLE Q	5	60	276.00	-42301.00	340.74	49.26	0.00	12.06	26.99	380.24
15.50	2	SLE R	6	60	0.00	-40808.40	-445.31	-111.76	0.00	12.06	27.79	384.24
15.50	4	SLE Q	6	60	0.00	-35187.60	-364.93	-126.74	0.00	12.06	23.86	330.84
15.50	2	SLE R	6	60	0.00	-40808.40	-445.31	-111.76	0.00	12.06	27.79	384.24
15.50	4	SLE Q	6	60	0.00	-35187.60	-364.93	-126.74	0.00	12.06	23.86	330.84
18.26	2	SLE R	6	60	276.00	-39635.40	425.76	65.79	0.00	12.06	26.71	369.93
18.26	4	SLE Q	6	60	276.00	-34014.60	349.36	83.54	0.00	12.06	22.84	317.15
18.50	2	SLE R	7	60	0.00	-31269.20	-474.84	-119.73	0.00	12.06	23.12	312.10
18.50	4	SLE Q	7	60	0.00	-26877.40	-388.46	-131.91	0.00	12.06	19.76	267.63
18.50	2	SLE R	7	60	0.00	-31269.20	-474.84	-119.73	0.00	12.06	23.12	312.10
18.50	4	SLE Q	7	60	0.00	-26877.40	-388.46	-131.91	0.00	12.06	19.76	267.63
21.26	2	SLE R	7	60	276.00	-30096.20	491.52	53.56	0.00	12.06	22.41	300.88
21.26	4	SLE Q	7	60	276.00	-25704.40	400.90	79.10	0.00	12.06	19.05	256.68
21.50	2	SLE R	8	60	0.00	-21713.50	-418.74	-170.50	0.00	12.06	17.57	232.25
21.50	4	SLE Q	8	60	0.00	-18549.90	-345.68	-169.58	0.00	12.06	14.96	198.38
21.50	2	SLE R	8	60	0.00	-21713.50	-418.74	-170.50	0.00	12.06	17.57	232.25
21.50	4	SLE Q	8	60	0.00	-18549.90	-345.68	-169.58	0.00	12.06	14.96	198.38
24.26	2	SLE R	8	60	276.00	-20540.50	301.40	250.13	0.00	12.06	15.83	213.72
24.26	4	SLE Q	8	60	276.00	-17376.90	254.31	220.11	0.00	12.06	13.42	181.22
24.50	2	SLE R	9	60	0.00	-12138.90	-697.59	25.01	0.00	12.06	15.74	182.82
24.50	4	SLE Q	9	60	0.00	-10207.80	-561.78	-33.28	0.00	12.06	12.88	151.02
24.50	2	SLE R	9	60	0.00	-12138.90	-697.59	25.01	0.00	12.06	15.74	182.82
24.50	4	SLE Q	9	60	0.00	-10207.80	-561.78	-33.28	0.00	12.06	12.88	151.02
27.26	2	SLE R	9	60	276.00	-10965.90	1078.23	99.35	6.03	6.03	24.92	242.16
27.26	4	SLE Q	9	60	276.00	-9034.81	855.50	150.86	6.03	6.03	20.18	201.02

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <cm>	X1 <cm>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Si
0.00	0.68	ø8/20	2	2	ø8/10	1	SLU	0.88	0.40	409.12	2.50	0.00	35581.40	95188.80	32023.30	0.45	0.83	157.98	2.50	0.00	73641.10	100743.00	66277.00	78.
0.68	2.58	ø8/20	2	2	ø8/10	1	SLU	0.88	0.40	409.12	2.50	0.00	35581.40	95067.50	32023.30	0.45	0.83	157.98	2.50	0.00	73641.10	100614.00	66277.00	78.
2.58	3.26	ø8/20	2	2	ø8/10	1	SLU	0.88	0.40	409.12	2.50	0.00	35581.40	94728.50	32023.30	0.45	0.83	157.98	2.50	0.00	73641.10	100255.00	66277.00	78.
3.50	4.18	ø6/15	2	2	ø8/10	1	SLU	0.88	0.40	668.26	2.50	0.00	35581.40	92948.20	32023.30	0.45	0.83	184.14	2.50	0.00	73641.10	98371.20	66277.00	47.
4.18	5.58	ø6/15	2	2	ø8/10	1	SLU	0.88	0.40	668.26	2.50	0.00	35581.40	92826.80	32023.30	0.45	0.83	184.14	2.50	0.00	73641.10	98242.80	66277.00	47.
5.58	6.26	ø6/15	2	2	ø8/10	1	SLU	0.88	0.40	668.26	2.50	0.00	35581.40	92577.10	32023.30	0.45	0.83	184.14	2.50	0.00	73641.10	97978.50	66277.00	47.
6.50	7.18	ø6/15	2	2	---	1	SLU	0.68	0.20	282.53	2.50	5312.50	---	21103.30	5312.50	0.25	0.63	59.54	2.50	16677.60	---	24356.50	16677.60	18.
7.18	8.58	ø6/15	2	2	---	1	SLU	0.68	0.20	282.53	2.50	5312.50	---	21220.50	5312.50	0.25	0.63	59.54	2.50	16677.60	---	24491.80	16677.60	18.
8.58	9.26	ø6/15	2	2	---	1	SLU	0.68	0.20	282.53	2.50	5312.50	---	21461.80	5312.50	0.25	0.63	59.54	2.50	16677.60	---	24770.20	16677.60	18.
9.50	10.18	ø6/15	2	2	---	1	SLU	0.68	0.20	431.00	2.50	5312.50	---	25173.10	5312.50	0.25	0.63	50.65	2.50	16677.60	---	29053.70	16677.60	12.
10.18	11.58	ø6/15	2	2	---	1	SLU	0.68	0.20	431.00	2.50	5312.50	---	25290.30	5312.50	0.25	0.63	50.65	2.50	16677.60	---	29189.00	16677.60	12.
11.58	12.26	ø6/15	2	2	---	1	SLU	0.68	0.20	431.00	2.50	5312.50	---	25531.60	5312.50	0.25	0.63	50.65	2.50	16677.60	---	29467.40	16677.60	12.
12.50	13.18	ø6/15	2	2	---	1	SLU	0.68	0.20	426.05	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	67.47	2.50	16677.60	---	29548.40	16677.60	12.
13.18	14.58	ø6/15	2	2	---	1	SLU	0.68	0.20	426.05	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	67.47	2.50	16677.60	---	29548.40	16677.60	12.
14.58	15.26	ø6/15	2	2	---	1	SLU	0.68	0.20	426.05	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	67.47	2.50	16677.60	---	29548.40	16677.60	12.
15.50	16.18	ø6/15	2	2	---	1	SLU	0.68	0.20	452.10	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	78.11	2.50	16677.60	---	29548.40	16677.60	11.
16.18	17.58	ø6/15	2	2	---	1	SLU	0.68	0.20	452.10	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	78.11	2.50	16677.60	---	29548.40	16677.60	11.
17.58	18.26	ø6/15	2	2	---	1	SLU	0.68	0.20	452.10	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	78.11	2.50	16677.60	---	29548.40	16677.60	11.
18.50	19.18	ø6/15	2	2	---	1	SLU	0.68	0.20	501.90	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	75.43	2.50	16677.60	---	29548.40	16677.60	10.
19.18	20.58	ø6/15	2	2	---	1	SLU	0.68	0.20	501.90	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	75.43	2.50	16677.60	---	29548.40	16677.60	10.
20.58	21.26	ø6/15	2	2	---	1	SLU	0.68	0.20	501.90	2.50	5312.50	---	25601.70	5312.50	0.25	0.63	75.43	2.50	16677.60	---	29548.40	16677.60	10.
21.50	22.18	ø6/15	2	2	---	1	SLU	0.68	0.20	371.71	2.50	5312.50	---	24290.20	5312.50	0.25	0.63	203.99	2.50	16677.60	---	28034.60	16677.60	14.
22.18	23.58	ø6/15	2	2	---	1	SLU	0.68	0.20	371.71	2.50	5312.50	---	24243.30	5312.50	0.25	0.63	203.99	2.50	16677.60	---	27980.50	16677.60	14.
23.58	24.26	ø6/15	2	2	---	1	SLU	0.68	0.20	371.71	2.50	5312.50	---	24146.80	5312.50	0.25	0.63	203.99	2.50	16677.60	---	27869.10	16677.60	14.
24.50	25.18	ø6/15	2	2	---	1	SLU	0.68	0.20	928.40	2.50	5312.50	---	22625.60	5312.50	0.25	0.63	15.86	2.50	16677.60	---	26113.50	16677.60	5.
25.18	26.58	ø6/15	2	2	---	1	SLU	0.68	0.20	928.41	2.50	5312.50	---	22578.70	5312.50	0.25	0.63	15.86	2.50	16677.60	---	26059.40	16677.60	5.
26.58	27.26	ø6/15	2	2	---	1	SLU	0.68	0.20	928.41	2.50	5312.50	---	22482.20	5312.50	0.25	0.63	15.86	2.50	16677.60	---	25948.00	16677.60	5.

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/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	4.80	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.80	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.60	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10R		40.00	35.00	4.30	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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm²>	Fcd <daN/cm²>	Fyk <daN/cm²>	Fyd <daN/cm²>
60.00	70.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo – Verifiche a flessione/presoflessione con rinforzi

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>	esp.	Sic.	Δ%
0.00	1(e)	SLU	1	1	0.00	-130372.00	-700.87	-2607.43	862.00	2607.43	-875227.00	-84937.10	69994.90	1.04	6.713	106.03
0.00	1(e)	SLU	1	1	0.00	-130372.00	-700.87	-2607.43	862.00	2607.43	-875227.00	-84937.10	69994.90	1.04	6.713	106.03
3.00	1(e)	SLU	1	1	300.00	-126277.00	2394.62	2525.53	-1548.90	-2525.53	-875227.00	84469.90	-69697.70	1.04	6.931	106.03
3.50	1	SLU	2	10	0.00	-112479.00	-2603.77	-2603.77	2485.57	2485.57	-748237.00	-56695.40	63882.40	1.04	6.652	121.45
3.50	1	SLU	2	10	0.00	-112479.00	-2603.77	-2603.77	2485.57	2485.57	-748237.00	-56695.40	63882.40	1.04	6.652	121.45
6.00	1	SLU	2	10	250.00	-109798.00	2904.07	2904.07	-2572.05	-2572.05	-748237.00	56595.40	-63772.20	1.04	6.815	121.45
6.50	1(e)	SLU	3	10	0.00	-95932.80	-1115.47	-1918.66	1054.03	1918.66	-337884.00	-20738.40	24427.70	1.15	3.522	---
6.50	1(e)	SLU	3	10	0.00	-95932.80	-1115.47	-1918.66	1054.03	1918.66	-235892.00	-12862.80	13234.40	1.26	2.459	---
9.00	1(e)	SLU	3	10	250.00	-94795.30	1256.08	1895.91	-1339.36	-1895.91	-235892.00	12888.90	-13222.50	1.25	2.488	---
9.50	1	SLU	4	10	0.00	-82121.60	-1714.26	-1714.26	1756.65	1756.65	-235892.00	-12658.70	12985.60	1.21	2.872	---
9.50	1	SLU	4	10	0.00	-82121.60	-1714.26	-1714.26	1756.65	1756.65	-235892.00	-12658.70	12985.60	1.21	2.872	---
12.00	1(e)	SLU	4	10	250.00	-80984.10	1600.02	1619.68	-1656.37	-1656.37	-235892.00	12625.10	-12955.30	1.20	2.913	---
12.50	1	SLU	5	10	0.00	-67576.30	-1892.91	-1892.91	2074.19	2074.19	-235892.00	-12044.60	12489.50	1.16	3.491	---
12.50	1	SLU	5	10	0.00	-67576.30	-1892.91	-1892.91	2074.19	2074.19	-235892.00	-12044.60	12489.50	1.16	3.491	---
15.00	1	SLU	5	10	250.00	-66438.80	1865.79	1865.79	-2059.75	-2059.75	-235892.00	11981.20	-12442.20	1.15	3.551	---
15.50	1	SLU	6	7	0.00	-52943.70	-1683.49	-1683.49	1236.31	1236.31	-185194.00	-10219.30	7493.37	1.15	3.498	---
15.50	1	SLU	6	7	0.00	-52943.70	-1683.49	-1683.49	1236.31	1236.31	-174161.00	-8796.18	7394.55	1.17	3.290	---
18.00	1	SLU	6	7	250.00	-52090.60	1615.79	1615.79	-1272.92	-1272.92	-174161.00	8753.37	-7357.94	1.17	3.343	---
18.50	1	SLU	7	7	0.00	-38981.00	-1804.80	-1804.80	1552.35	1552.35	-38984.50	-7870.63	6601.12	1.10	2.503	---
18.50	1	SLU	7	7	0.00	-38981.00	-1804.80	-1804.80	1552.35	1552.35	-38984.50	-7870.63	6601.12	1.10	2.503	---
21.00	1	SLU	7	7	250.00	-38127.90	1665.04	1665.04	-1459.89	-1459.89	-38131.40	7799.39	-6540.40	1.10	2.663	---
21.50	1	SLU	8	7	0.00	-24729.90	-1838.83	-1838.83	1632.86	1632.86	-24734.30	-6417.77	5355.73	1.03	1.765	---
21.50	1	SLU	8	7	0.00	-24729.90	-1838.83	-1838.83	1632.86	1632.86	-24734.30	-6417.77	5355.73	1.03	1.765	---
24.00	1	SLU	8	7	250.00	-23876.80	1716.89	1716.89	-1523.69	-1523.69	-23879.50	6317.04	-5273.71	1.03	1.855	---
24.50	1	SLU	9	7	0.00	-10306.40	-1666.36	-1666.36	1826.99	1826.99	-10309.70	-4622.51	3881.07	1.00	1.203	---
24.50	1	SLU	9	7	0.00	-10306.40	-1666.36	-1666.36	1826.99	1826.99	-10309.70	-4622.51	3881.07	1.00	1.203	---
27.00	1	SLU	9	7	250.00	-9453.30	1346.81	1346.81	-1830.08	-1830.08	-9454.18	4511.25	-3790.00	1.00	1.280	---

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	-92993.40	610.09	-478.07	0.00	75.40	19.34	285.75
0.00	4	SLE Q	1	1	0.00	-86385.00	533.67	-558.88	0.00	75.40	18.08	266.98
0.00	2	SLE R	1	1	0.00	-92993.40	610.09	-478.07	0.00	75.40	19.34	285.75
0.00	4	SLE Q	1	1	0.00	-86385.00	533.67	-558.88	0.00	75.40	18.08	266.98
3.00	2	SLE R	1	1	300.00	-89843.40	-1096.28	1676.70	0.00	75.40	21.53	312.64
3.00	4	SLE Q	1	1	300.00	-83235.00	-952.88	1679.31	0.00	75.40	20.03	290.71
3.50	2	SLE R	2	10	0.00	-80079.60	1754.07	-1828.13	0.00	75.40	26.60	377.57
3.50	4	SLE Q	2	10	0.00	-74086.00	1521.74	-1832.16	0.00	75.40	24.74	350.81
3.50	2	SLE R	2	10	0.00	-80079.60	1754.07	-1828.13	0.00	75.40	26.60	377.57
3.50	4	SLE Q	2	10	0.00	-74086.00	1521.74	-1832.16	0.00	75.40	24.74	350.81
6.00	2	SLE R	2	10	250.00	-78017.10	-1816.92	2036.35	0.00	75.40	26.80	378.82
6.00	4	SLE Q	2	10	250.00	-72023.50	-1564.51	2030.93	0.00	75.40	24.86	351.20
6.50	2	SLE R	3	10	0.00	-68214.00	746.11	-779.63	0.00	37.70	46.71	653.01
6.50	4	SLE Q	3	10	0.00	-62889.20	629.91	-776.80	0.00	37.70	43.13	602.62
6.50	2	SLE R	3	10	0.00	-68214.00	746.11	-779.63	0.00	9.24	59.71	838.58
6.50	4	SLE Q	3	10	0.00	-62889.20	629.91	-776.80	0.00	9.24	55.11	773.47
9.00	2	SLE R	3	10	250.00	-67339.00	-947.76	877.25	0.00	9.24	62.11	863.76
9.00	4	SLE Q	3	10	250.00	-62014.20	-799.74	881.63	0.00	9.24	57.27	795.97
9.50	2	SLE R	4	10	0.00	-58396.00	1242.98	-1196.92	0.00	9.24	62.49	846.54
9.50	4	SLE Q	4	10	0.00	-53712.60	1035.58	-1193.74	0.00	9.24	57.43	777.54
9.50	2	SLE R	4	10	0.00	-58396.00	1242.98	-1196.92	0.00	9.24	62.49	846.54
9.50	4	SLE Q	4	10	0.00	-53712.60	1035.58	-1193.74	0.00	9.24	57.43	777.54
12.00	2	SLE R	4	10	250.00	-57521.00	-1172.42	1116.58	0.00	9.24	60.40	820.83
12.00	4	SLE Q	4	10	250.00	-52837.60	-970.42	1109.36	0.00	9.24	55.34	751.95
12.50	2	SLE R	5	10	0.00	-48061.70	1465.61	-1323.78	0.00	9.24	59.25	785.23
12.50	4	SLE Q	5	10	0.00	-44109.00	1213.23	-1295.05	0.00	9.24	53.96	715.39
12.50	2	SLE R	5	10	0.00	-48061.70	1465.61	-1323.78	0.00	9.24	59.25	785.23
12.50	4	SLE Q	5	10	0.00	-44109.00	1213.23	-1295.05	0.00	9.24	53.96	715.39
15.00	2	SLE R	5	10	250.00	-47186.70	-1455.87	1304.56	0.00	9.24	58.39	773.38
15.00	4	SLE Q	5	10	250.00	-43234.00	-1201.76	1273.08	0.00	9.24	53.05	703.03
15.50	2	SLE R	6	7	0.00	-37666.50	873.77	-1176.60	0.00	9.24	62.27	803.78
15.50	4	SLE Q	6	7	0.00	-34460.10	719.54	-1145.27	0.00	9.24	56.54	731.55
15.50	2	SLE R	6	7	0.00	-37666.50	873.77	-1176.60	0.00	6.16	64.54	833.96
15.50	4	SLE Q	6	7	0.00	-34460.10	719.54	-1145.27	0.00	6.16	58.68	759.80
18.00	2	SLE R	6	7	250.00	-37010.20	-899.68	1128.69	0.00	6.16	63.72	822.33
18.00	4	SLE Q	6	7	250.00	-33803.80	-739.80	1099.12	0.00	6.16	57.79	747.46
18.50	2	SLE R	7	7	0.00	-27767.40	1097.08	-1260.00	1.54	4.62	61.89	766.44
18.50	4	SLE Q	7	7	0.00	-25268.00	898.29	-1226.75	1.54	4.62	55.66	691.49
18.50	2	SLE R	7	7	0.00	-27767.40	1097.08	-1260.00	1.54	4.62	61.89	766.44
18.50	4	SLE Q	7	7	0.00	-25268.00	898.29	-1226.75	1.54	4.62	55.66	691.49
21.00	2	SLE R	7	7	250.00	-27111.10	-1031.63	1162.41	1.54	4.62	58.47	727.65
21.00	4	SLE Q	7	7	250.00	-24611.70	-842.67	1130.74	1.54	4.62	52.49	655.20
21.50	2	SLE R	8	7	0.00	-17667.20	1153.79	-1280.43	1.54	4.62	61.55	712.19
21.50	4	SLE Q	8	7	0.00	-15914.90	941.29	-1245.95	1.54	4.62	54.83	636.68
21.50	2	SLE R	8	7	0.00	-17667.20	1153.79	-1280.43	1.54	4.62	61.55	712.19
21.50	4	SLE Q	8	7	0.00	-15914.90	941.29	-1245.95	1.54	4.62	54.83	636.68
24.00	2	SLE R	8	7	250.00	-17010.90	-1076.44	1193.61	1.54	4.62	57.20	665.41
24.00	4	SLE Q	8	7	250.00	-15258.60	-878.36	1163.54	1.54	4.62	51.05	595.35
24.50	2	SLE R	9	7	0.00	-7443.47	1290.93	-1175.72	4.62	1.54	78.60	1327.45
24.50	4	SLE Q	9	7	0.00	-6479.00	1029.86	-1130.13	4.62	1.54	68.16	1131.73
24.50	2	SLE R	9	7	0.00	-7443.47	1290.93	-1175.72	4.62	1.54	78.60	1327.45
24.50	4	SLE Q	9	7	0.00	-6479.00	1029.86	-1130.13	4.62	1.54	68.16	1131.73

Relazione di calcolo

27.00	2	SLE R	9	7	250.00	-6787.22	-1293.25	965.20	4.62	1.54	72.87	1279.98
27.00	4	SLE Q	9	7	250.00	-5822.75	-1017.02	914.37	4.62	1.54	61.60	1043.08

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 _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
24.50	4	SLE Q	9	7	0.00	-6479.00	-1130.13	1029.86	39.00	258.00	0.50	14.00	200.42	1.54	82.45	1131.73	0.36	0.12
24.50	3	SLE F	9	7	0.00	-6728.57	-1142.40	1101.62	39.00	258.00	0.50	14.00	199.21	1.54	83.27	1185.48	0.35	0.12
24.50	4	SLE Q	9	7	0.00	-6479.00	-1130.13	1029.86	39.00	258.00	0.50	14.00	200.42	1.54	82.45	1131.73	0.36	0.12
24.50	3	SLE F	9	7	0.00	-6728.57	-1142.40	1101.62	39.00	258.00	0.50	14.00	199.21	1.54	83.27	1185.48	0.35	0.12
27.00	4	SLE Q	9	7	250.00	-5822.75	914.37	-1017.02	39.00	258.00	0.50	14.00	195.68	1.54	86.41	1043.08	0.31	0.10
27.00	3	SLE F	9	7	250.00	-6072.32	928.08	-1091.80	39.00	258.00	0.50	14.00	194.47	1.54	88.34	1107.37	0.32	0.11

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X ₀	X ₁	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>
0.00	0.54	ø8/10	2	2	ø8/10	1	SLU	0.70	0.55	803.63	2.50	0.00	48858.10	103213.00	43972.30	0.60	0.65	1031.83	2.50	0.00	57709.10	104495.00	51938.20
0.54	2.72	ø8/10	2	2	ø8/10	1	SLU	0.70	0.55	803.63	2.50	0.00	48858.10	103107.00	43972.30	0.60	0.65	1031.83	2.50	0.00	57709.10	104388.00	51938.20
2.72	3.00	ø8/10	2	2	ø8/10	1	SLU	0.70	0.55	803.63	2.50	0.00	48858.10	102684.00	43972.30	0.60	0.65	1031.83	2.50	0.00	57709.10	103959.00	51938.20
3.50	3.96	ø8/10	2	2	ø8/10	1	SLU	0.55	0.55	2023.05	2.50	0.00	48858.10	82530.10	43972.30	0.60	0.50	2203.14	2.50	0.00	44432.50	81877.70	39989.30
3.96	5.80	ø8/10	2	2	ø8/10	1	SLU	0.55	0.55	2023.05	2.50	0.00	48858.10	82459.60	43972.30	0.60	0.50	2203.14	2.50	0.00	44432.50	81807.80	39989.30
5.80	6.00	ø8/10	2	2	ø8/10	1	SLU	0.55	0.55	2023.05	2.50	0.00	48858.10	82177.90	43972.30	0.60	0.50	2203.14	2.50	0.00	44432.50	81528.30	39989.30
6.50	6.96	ø6/15	2	2	---	1	SLU	0.35	0.35	957.36	2.50	9277.05	---	13366.00	9277.05	0.40	0.30	948.62	2.50	7955.54	---	13099.40	7955.54
6.96	8.80	ø6/15	2	2	---	1	SLU	0.35	0.35	957.36	2.50	9277.05	---	13437.20	9277.05	0.40	0.30	948.62	2.50	7955.54	---	13169.20	7955.54
8.80	9.00	ø6/15	2	2	---	1	SLU	0.35	0.35	957.36	2.50	9277.05	---	13722.20	9277.05	0.40	0.30	948.62	2.50	7955.54	---	13448.50	7955.54
9.50	9.96	ø6/15	2	2	---	1	SLU	0.35	0.35	1365.21	2.50	9277.05	---	18067.40	9277.05	0.40	0.30	1325.71	2.50	7955.54	---	17707.10	7955.54
9.96	11.80	ø6/15	2	2	---	1	SLU	0.35	0.35	1365.21	2.50	9277.05	---	18138.70	9277.05	0.40	0.30	1325.71	2.50	7955.54	---	17776.90	7955.54
11.80	12.00	ø6/15	2	2	---	1	SLU	0.35	0.35	1365.21	2.50	9277.05	---	18423.70	9277.05	0.40	0.30	1325.71	2.50	7955.54	---	18056.20	7955.54
12.50	12.96	ø6/15	2	2	---	1	SLU	0.35	0.35	1653.58	2.50	9277.05	---	23011.20	9277.05	0.40	0.30	1503.48	2.50	7955.54	---	22552.30	7955.54
12.96	14.80	ø6/15	2	2	---	1	SLU	0.35	0.35	1653.58	2.50	9277.05	---	23011.20	9277.05	0.40	0.30	1503.48	2.50	7955.54	---	22552.30	7955.54
14.80	15.00	ø6/15	2	2	---	1	SLU	0.35	0.35	1653.58	2.50	9277.05	---	23011.20	9277.05	0.40	0.30	1503.48	2.50	7955.54	---	22552.30	7955.54
15.50	15.96	ø6/15	2	2	---	1	SLU	0.35	0.25	1003.69	2.50	6634.02	---	15726.70	6634.02	0.30	0.30	1319.71	2.50	7955.54	---	16165.30	7955.54
15.96	17.80	ø6/15	2	2	---	1	SLU	0.35	0.25	1003.69	2.50	6634.02	---	15777.70	6634.02	0.30	0.30	1319.71	2.50	7955.54	---	16217.70	7955.54
17.80	18.00	ø6/15	2	2	---	1	SLU	0.35	0.25	1003.69	2.50	6634.02	---	15981.50	6634.02	0.30	0.30	1319.71	2.50	7955.54	---	16427.20	7955.54
18.50	18.96	ø6/15	2	2	---	1	SLU	0.35	0.25	1204.89	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1387.94	2.50	7955.54	---	16914.20	7955.54
18.96	20.80	ø6/15	2	2	---	1	SLU	0.35	0.25	1204.89	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1387.94	2.50	7955.54	---	16914.20	7955.54
20.80	21.00	ø6/15	2	2	---	1	SLU	0.35	0.25	1204.89	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1387.94	2.50	7955.54	---	16914.20	7955.54
21.50	21.96	ø6/15	2	2	---	1	SLU	0.35	0.25	1262.62	2.50	6634.02	---	16374.90	6634.02	0.30	0.30	1422.29	2.50	7955.54	---	16831.50	7955.54
21.96	23.80	ø6/15	2	2	---	1	SLU	0.35	0.25	1262.62	2.50	6634.02	---	16354.50	6634.02	0.30	0.30	1422.29	2.50	7955.54	---	16810.60	7955.54
23.80	24.00	ø6/15	2	2	---	1	SLU	0.35	0.25	1262.62	2.50	6634.02	---	16273.00	6634.02	0.30	0.30	1422.29	2.50	7955.54	---	16726.80	7955.54
24.50	24.96	ø6/15	2	2	---	1	SLU	0.35	0.25	1462.83	2.50	6634.02	---	14502.30	6634.02	0.30	0.30	1205.27	2.50	7955.54	---	14906.80	7955.54
24.96	26.80	ø6/15	2	2	---	1	SLU	0.35	0.25	1462.83	2.50	6634.02	---	14481.90	6634.02	0.30	0.30	1205.27	2.50	7955.54	---	14885.80	7955.54
26.80	27.00	ø6/15	2	2	---	1	SLU	0.35	0.25	1462.83	2.50	6634.02	---	14400.40	6634.02	0.30	0.30	1205.27	2.50	7955.54	---	14802.00	7955.54

Pilastrata n. 36

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/cm>	Fctm <daN/cm>	Fcd <daN/cm>	Fcd (Tag) <daN/cm>	Fctd <daN/cm>	Fym <daN/cm>	Fyd <daN/cm>	Fyd (Tag) <daN/cm>
1	R	40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
10	R	40.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
7	R	30.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm>	Fcd <daN/cm>	Fyk <daN/cm>	Fyd <daN/cm>
60.00	70.00	249.00	141.10	4500.00	3913.04
60.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	esp.	Sic.	Δ%	
<cm>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>				
0.00	1	(e)	SLU	1	1	0.00	-157177.00	589.60	3143.53	288.13	3143.53	-784267.00	74659.40	62553.30	1.08	4.990	134.93
0.00	1	(e)	SLU	1	1	0.00	-157177.00	589.60	3143.53	288.13	3143.53	-784267.00	74659.40	62553.30	1.08	4.990	134.93
3.00	1	(e)	SLU	1	1	300.00	-153082.00	121.31	3061.63	-552.99	-3061.63	-784267.00	74244.90	-62208.80	1.08	5.123	134.93
3.50	1	(e)	SLU	2	10	0.00	-136080.00	25.16	2721.60	851.47	2721.60	-657277.00	50746.30	56359.00	1.09	4.830	166.19
3.50	1	(e)	SLU	2	10	0.00	-136080.00	25.16	2721.60	851.47	2721.60	-646245.00	50575.60	54908.60	1.09	4.749	173.96
6.00	1	(e)	SLU	2	10	250.00	-133399.00	-18.20	-2667.98	-830.32	-2667.98	-646245.00	-50457.10	-54796.90	1.09	4.844	173.96
6.50	1	(e)	SLU	3	10	0.00	-117330.00	-45.68	-2346.60	302.32	2346.60	-235892.00	-11891.50	12628.10	1.33	2.011	---
6.50	1	(e)	SLU	3	10	0.00	-117330.00	-45.68	-2346.60	302.32	2346.60	-235892.00	-11891.50	12628.10	1.33	2.011	---
9.00	1	(e)	SLU	3	10	250.00	-116192.00	0.15	2323.85	-408.21	-2323.85	-235892.00	11949.30	-12677.30	1.33	2.030	---
9.50	1	(e)	SLU	4	10	0.00	-99806.70	-39.82	-1996.13	586.44	1996.13	-235892.00	-12702.70	13258.30	1.27	2.363	---
9.50	1	(e)	SLU	4	10	0.00	-99806.70	-39.82	-1996.13	586.44	1996.13	-235892.00	-12702.70	13258.30	1.27	2.363	---
12.00	1	(e)	SLU	4	10	250.00	-98669.20	27.95	1973.38	-613.64	-1973.38	-235892.00	12750.10	-13253.90	1.27	2.391	---
12.50	1	(e)	SLU	5	10	0.00	-82774.20	-46.68	-1655.48	852.85	1655.48	-235892.00	-12678.00	13002.90	1.21	2.850	---
12.50	1	(e)	SLU	5	10	0.00	-82774.20	-46.68	-1655.48	852.85	1655.48	-235892.00	-12678.00	13002.90	1.21	2.850	---
15.00	1	(e)	SLU	5	10	250.00	-81636.70	59.78	1632.73	-842.39	-1632.73	-235892.00	12644.40	-12972.70	1.21	2.890	---
15.50	1	(e)	SLU	6	7	0.00	-65761.50	-78.18	-1315.23	487.04	1315.23	-185194.00	-10663.70	7756.39	1.21	2.816	---
15.50	1	(e)	SLU	6	7	0.00	-65761.50	-78.18	-1315.23	487.04	1315.23	-174161.00	-9240.53	7774.84	1.23	2.648	---
18.00	1	(e)	SLU	6	7	250.00	-64908.40	79.03	1298.17	-482.92	-1298.17	-174161.00	9222.57	-7760.31	1.23	2.683	---
18.50	1	(e)	SLU	7	7	0.00	-48822.30	-96.64	-976.45	589.55	976.45	-174161.00	-8571.18	7201.43	1.15	3.567	---
18.50	1	(e)	SLU	7	7	0.00	-48822.30	-96.64	-976.45	589.55	976.45	-174161.00	-8571.18	7201.43	1.15	3.567	---
21.00	1	(e)	SLU	7	7	250.00	-47969.10	88.13	959.38	-561.22	-959.38	-174161.00	8519.61	-7157.70	1.15	3.631	---
21.50	1	(e)	SLU	8	7	0.00	-32246.30	-102.38	-644.93	646.09	646.09	-174161.00	-7259.97	6050.28	1.07	5.401	---
21.50	1	(e)	SLU	8	7	0.00	-32246.30	-102.38	-644.93	646.09	646.09	-174161.00	-7259.97	6050.28	1.07	5.401	---
24.00	1	(e)	SLU	8	7	250.00	-31393.20	92.59	627.86	-610.15	-627.86	-174161.00	7168.16	-5974.13	1.07	5.548	---
24.50	1	(e)	SLU	9	7	0.00	-16012.80	-125.53	-320.25	635.39	635.39	-16015.50	-5353.76	4481.51	1.00	4.960	---
24.50	1	(e)	SLU	9	7	0.00	-16012.80	-125.53	-320.25	635.39	635.39	-16015.50	-5353.76	4481.51	1.00	4.960	---
27.00	1	(e)	SLU	9	7	250.00	-15159.70	116.46	-303.19	-592.37	-592.37	-15162.50	-5245.77	-4392.64	1.00	5.191	---

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	Sez.	X	N	Mz	My	AfT	AfC	σ _c	σ _t
<m>					<cm>	<daN>	<daNm>	<daNm>	<cmq>	<cmq>	<daN/cmq>	<daN/cmq>
0.00	2	SLE R	1	1	0.00	-112043.00	205.73	425.88	0.00	50.01	23.73	353.59
0.00	4	SLE Q	1	1	0.00	-100184.00	158.58	348.24	0.00	50.01	21.12	314.85
0.00	2	SLE R	1	1	0.00	-112043.00	205.73	425.88	0.00	50.01	23.73	353.59
0.00	4	SLE Q	1	1	0.00	-100184.00	158.58	348.24	0.00	50.01	21.12	314.85
3.00	2	SLE R	1	1	300.00	-108893.00	-394.53	84.59	0.00	50.01	22.90	341.42
3.00	4	SLE Q	1	1	300.00	-97033.80	-301.93	73.79	0.00	50.01	20.31	302.99
3.50	2	SLE R	2	10	0.00	-96839.30	600.82	15.54	0.00	50.01	25.37	376.98
3.50	4	SLE Q	2	10	0.00	-86263.90	446.30	7.05	0.00	50.01	22.37	332.95
3.50	2	SLE R	2	10	0.00	-96839.30	600.82	15.54	0.00	46.94	25.65	381.27
3.50	4	SLE Q	2	10	0.00	-86263.90	446.30	7.05	0.00	46.94	22.62	336.75
6.00	2	SLE R	2	10	250.00	-94776.80	-586.53	-12.59	0.00	46.94	25.10	373.02
6.00	4	SLE Q	2	10	250.00	-84201.40	-413.42	-4.69	0.00	46.94	22.02	327.97
6.50	2	SLE R	3	10	0.00	-83394.40	214.74	-31.90	0.00	9.24	56.60	840.55
6.50	4	SLE Q	3	10	0.00	-74036.60	129.69	-39.03	0.00	9.24	49.78	740.73
6.50	2	SLE R	3	10	0.00	-83394.40	214.74	-31.90	0.00	9.24	56.60	840.55
6.50	4	SLE Q	3	10	0.00	-74036.60	129.69	-39.03	0.00	9.24	49.78	740.73
9.00	2	SLE R	3	10	250.00	-82519.40	-289.53	0.24	0.00	9.24	56.41	836.62
9.00	4	SLE Q	3	10	250.00	-73161.60	-179.23	17.04	0.00	9.24	49.45	735.12
9.50	2	SLE R	4	10	0.00	-70936.40	415.60	-28.07	0.00	9.24	50.39	740.89
9.50	4	SLE Q	4	10	0.00	-62857.90	248.86	-48.31	0.00	9.24	43.75	646.03
9.50	2	SLE R	4	10	0.00	-70936.40	415.60	-28.07	0.00	9.24	50.39	740.89
9.50	4	SLE Q	4	10	0.00	-62857.90	248.86	-48.31	0.00	9.24	43.75	646.03
12.00	2	SLE R	4	10	250.00	-70061.40	-435.07	19.29	0.00	9.24	49.91	733.50
12.00	4	SLE Q	4	10	250.00	-61982.90	-264.66	37.52	0.00	9.24	43.22	637.99
12.50	2	SLE R	5	10	0.00	-58825.50	601.68	-33.67	0.00	9.24	44.36	644.08
12.50	4	SLE Q	5	10	0.00	-51981.90	383.40	-46.91	0.00	9.24	37.96	554.73
12.50	2	SLE R	5	10	0.00	-58825.50	601.68	-33.67	0.00	9.24	44.36	644.08
12.50	4	SLE Q	5	10	0.00	-51981.90	383.40	-46.91	0.00	9.24	37.96	554.73
15.00	2	SLE R	5	10	250.00	-57950.50	-594.65	42.33	0.00	9.24	43.81	635.78
15.00	4	SLE Q	5	10	250.00	-51106.90	-375.77	56.32	0.00	9.24	37.41	546.45
15.50	2	SLE R	6	7	0.00	-46727.80	343.70	-55.13	0.00	9.24	45.87	658.34
15.50	4	SLE Q	6	7	0.00	-41114.70	217.26	-67.59	0.00	9.24	39.17	567.12
15.50	2	SLE R	6	7	0.00	-46727.80	343.70	-55.13	0.00	6.16	47.50	682.69
15.50	4	SLE Q	6	7	0.00	-41114.70	217.26	-67.59	0.00	6.16	40.63	588.73
18.00	2	SLE R	6	7	250.00	-46071.60	-340.82	55.64	0.00	6.16	46.89	673.65
18.00	4	SLE Q	6	7	250.00	-40458.40	-213.35	68.26	0.00	6.16	40.00	579.53
18.50	2	SLE R	7	7	0.00	-34703.60	416.19	-68.36	0.00	6.16	38.39	539.64
18.50	4	SLE Q	7	7	0.00	-30345.60	260.45	-82.22	0.00	6.16	32.14	457.23
18.50	2	SLE R	7	7	0.00	-34703.60	416.19	-68.36	0.00	6.16	38.39	539.64
18.50	4	SLE Q	7	7	0.00	-30345.60	260.45	-82.22	0.00	6.16	32.14	457.23
21.00	2	SLE R	7	7	250.00	-34047.40	-396.21	62.67	0.00	6.16	37.40	526.61
21.00	4	SLE Q	7	7	250.00	-29689.40	-248.09	74.99	0.00	6.16	31.25	445.29
21.50	2	SLE R	8	7	0.00	-22934.80	456.46	-71.28	0.00	6.16	28.81	392.65
21.50	4	SLE Q	8	7	0.00	-19787.80	287.06	-83.43	0.00	6.16	23.37	323.46
21.50	2	SLE R	8	7	0.00	-22934.80	456.46	-71.28	0.00	6.16	28.81	392.65
21.50	4	SLE Q	8	7	0.00	-19787.80	287.06	-83.43	0.00	6.16	23.37	323.46
24.00	2	SLE R	8	7	250.00	-22278.50	-431.05	63.44	0.00	6.16	27.69	378.33
24.00	4	SLE Q	8	7	250.00	-19131.50	-271.25	75.40	0.00	6.16	22.41	310.80
24.50	2	SLE R	9	7	0.00	-11405.70	448.68	-90.76	0.00	6.16	18.86	242.97
24.50	4	SLE Q	9	7	0.00	-9412.33	276.32	-102.40	0.00	6.16	14.37	188.33
24.50	2	SLE R	9	7	0.00	-11405.70	448.68	-90.76	0.00	6.16	18.86	242.97
24.50	4	SLE Q	9	7	0.00	-9412.33	276.32	-102.40	0.00	6.16	14.37	188.33
27.00	2	SLE R	9	7	250.00	-10749.50	-418.04	87.71	0.00	6.16	17.73	228.48
27.00	4	SLE Q	9	7	250.00	-8756.08	-257.32	95.40	0.00	6.16	13.38	175.27

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0	X1	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRsdCam _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRsdCam _z	VRcd _z	Vrd _z	Si
<m>	<m>							<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<daN>	
0.00	0.54	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	280.37	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	156.09	2.50	0.00	57709.10	107066.00	51938.20	>100
0.54	2.72	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	280.37	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	156.09	2.50	0.00	57709.10	107066.00	51938.20	>100
2.72	3.00	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	280.37	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	156.09	2.50	0.00	57709.10	107066.00	51938.20	>100
3.50	3.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	672.72	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	17.35	2.50	0.00	44432.50	82434.00	39989.30	65.
3.96	5.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	672.72	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	17.35	2.50	0.00	44432.50	82434.00	39989.30	65.
5.80	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	672.72	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	17.35	2.50	0.00	44432.50	82434.00	39989.30	65.
6.50	6.96	ø6/15	2	2	---	1	SLU	0.35	0.35	284.21	1.94	7189.11	---	7189.11	7189.11	0.40	0.30	18.33	2.11	6699.53	---	6699.53	6699.53	25.
6.96	8.80	ø6/15	2	2	---	1	SLU	0.35	0.35	284.21	1.95	7242.24	---	7242.24	7242.24	0.40	0.30	18.33	2.12	6747.45	---	6747.45	6747.45	25.
8.80	9.00	ø6/15	2	2	---	1	SLU	0.35	0.35	284.21	2.01	7450.97	---	7450.97	7450.97	0.40	0.30	18.33	2.18	6935.83	---	6935.83	6935.83	26.
9.50	9.96	ø6/15	2	2	---	1	SLU	0.35	0.35	480.03	2.50	9277.05	---	12047.30	9277.05	0.40	0.30	27.11	2.50	7955.54	---	11807.00	7955.54	19.
9.96	11.80	ø6/15	2	2	---	1	SLU	0.35	0.35	480.03	2.50	9277.05	---	12118.50	9277.05	0.40	0.30	27.11	2.50	7955.54	---	11876.80	7955.54	19.
11.80	12.00	ø6/15	2	2	---	1	SLU	0.35	0.35	480.03	2.50	9277.05	---	12403.50	9277.05	0.40	0.30	27.11	2.50	7955.54	---	12156.10	7955.54	19.
12.50	12.96	ø6/15	2	2	---	1	SLU	0.35	0.35	678.10	2.50	9277.05	---	17845.30	9277.05	0.40	0.30	42.58	2.50	7955.54	---	17489.40	7955.54	13.
12.96	14.80	ø6/15	2	2	---	1	SLU	0.35	0.35	678.10	2.50	9277.05	---	17916.60	9277.05	0.40	0.30	42.58	2.50	7955.54	---	17559.30	7955.54	13.
14.80	15.00	ø6/15	2	2	---	1	SLU	0.35	0.35	678.10	2.50	9277.05	---	18201.50	9277.05	0.40	0.30	42.58	2.50	7955.54	---	17838.50	7955.54	13.
15.50	15.96	ø6/15	2	2	---	1	SLU	0.35	0.25	387.99	2.50	6634.02	---	11566.50	6634.02	0.30	0.30	62.88	2.50	7955.54	---	11889.00	7955.54	17.
15.96	17.80	ø6/15	2	2	---	1	SLU	0.35	0.25	387.99	2.50	6634.02	---	11617.40	6634.02	0.30	0.30	62.88	2.50	7955.54	---	11941.40	7955.54	17.
17.80	18.00	ø6/15	2	2	---	1	SLU	0.35	0.25	387.99	2.50	6634.02	---	11821.20	6634.02	0.30	0.30	62.88	2.50	7955.54	---	12150.90	7955.54	17.
18.50	18.96	ø6/15	2	2	---	1	SLU	0.35	0.25	460.31	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	73.91	2.50	7955.54	---	16914.20	7955.54	14.
18.96	20.80	ø6/15	2	2	---	1	SLU	0.35	0.25	460.31	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	73.91	2.50	7955.54	---	16914.20	7955.54	14.
20.80	21.00	ø6/15	2	2	---	1	SLU	0.35	0.25	460.31	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	73.91	2.50	7955.54	---	16914.20	7955.54	14.
21.50	21.96	ø6/15	2	2	---	1	SLU	0.35	0.25	502.50	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	77.99	2.50	7955.54	---	16914.20	7955.54	13.
21.96	23.80	ø6/15	2	2	---	1	SLU	0.35	0.25	502.50	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	77.99	2.50	7955.54	---	16914.20	7955.54	13.
23.80	24.00	ø6/15	2	2	---	1	SLU	0.35	0.25	502.50	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	77.99	2.50	7955.54	---	16914.20	7955.54	13.

Relazione di calcolo

24.50	24.96	ø6/15	2	2	---	1	SLU	0.35	0.25	491.11	2.50	6634.02	---	15243.10	6634.02	0.30	0.30	96.80	2.50	7955.54	---	15668.30	7955.54	13.
24.96	26.80	ø6/15	2	2	---	1	SLU	0.35	0.25	491.11	2.50	6634.02	---	15222.80	6634.02	0.30	0.30	96.80	2.50	7955.54	---	15647.30	7955.54	13.
26.80	27.00	ø6/15	2	2	---	1	SLU	0.35	0.25	491.11	2.50	6634.02	---	15141.20	6634.02	0.30	0.30	96.80	2.50	7955.54	---	15563.50	7955.54	13.

Pilastrata n. 37

Nodi: 37 -7236 -7237 -7238 237 -7219 -7220 -7221 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 <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	3.00	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm>	Fcd <daN/cm>	Fyk <daN/cm>	Fyd <daN/cm>
60.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

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>	esp.	Sic.	Δ%
0.00	1(e)	SLU	1	1	0.00	-71426.00	785.78	1428.52	230.94	1428.52	-333837.00	21209.40	16662.80	1.09	4.674	---
0.00	1(e)	SLU	1	1	0.00	-71426.00	785.78	1428.52	230.94	1428.52	-333837.00	21209.40	16662.80	1.09	4.674	---
0.50	1(e)	SLU	1	1	50.00	-71101.00	232.64	1422.02	-197.80	-1422.02	-333837.00	21184.90	-16643.00	1.09	4.695	---
0.50	1(e)	SLU	2	1	0.00	-71618.00	81.36	1432.36	-195.73	-1432.36	-333837.00	21223.90	-16674.40	1.10	4.661	---
1.00	1(e)	SLU	2	1	50.00	-71293.00	-509.91	-1425.86	65.96	1425.86	-333837.00	-21199.60	16654.70	1.09	4.683	---
1.00	1(e)	SLU	3	1	0.00	-72833.70	-530.31	-1456.67	99.52	1456.67	-333837.00	-21315.90	16747.80	1.10	4.584	---
1.35	1(e)	SLU	3	1	35.00	-72606.20	-205.11	-1452.12	46.23	1452.12	-333837.00	-21298.80	16734.30	1.10	4.598	---
2.00	1(e)	SLU	5	1	0.00	-79138.40	-123.28	-1582.77	-223.93	-1582.77	-333837.00	-21777.80	-17117.60	1.11	4.218	---
2.00	1(e)	SLU	5	1	0.00	-79138.40	-123.28	-1582.77	-223.93	-1582.77	-333837.00	-21777.80	-17117.60	1.11	4.218	---
2.38	1(e)	SLU	5	1	37.50	-78894.60	-465.75	-1577.89	34.89	1577.89	-333837.00	-21760.40	17103.70	1.11	4.231	---
2.38	1(e)	SLU	6	1	0.00	-85255.80	-545.06	-1705.12	-23.94	-1705.12	-333837.00	-22200.90	-17456.00	1.13	3.916	---
2.75	1(e)	SLU	6	1	37.50	-85012.10	-866.52	-1700.24	90.30	1700.24	-333837.00	-22184.60	17442.90	1.13	3.927	---
2.75	1(e)	SLU	7	1	0.00	-94374.50	-835.78	-1887.49	159.34	1887.49	-333837.00	-22777.10	17917.10	1.15	3.537	---
3.00	1(e)	SLU	7	1	25.00	-94212.00	-451.42	-1884.24	366.77	1884.24	-333837.00	-22767.30	17909.60	1.15	3.543	---
3.50	1(e)	SLU	9	10	0.00	-151508.00	-1344.14	-3030.16	-2419.33	-3030.16	-657277.00	-51332.30	-57002.70	1.11	4.338	166.19
3.50	1(e)	SLU	9	10	0.00	-151508.00	-1344.14	-3030.16	-2419.33	-3030.16	-646245.00	-51225.80	-55524.10	1.11	4.265	173.96
4.35	1(e)	SLU	9	10	85.00	-150596.00	3494.66	3494.66	-1784.34	-3011.93	-646245.00	51189.00	-55489.20	1.11	4.291	173.96
5.00	1(e)	SLU	10	10	0.00	-137856.00	-4672.63	-4672.63	-61.25	-2757.11	-646245.00	-50653.20	-54982.00	1.09	4.688	173.96
5.00	1(e)	SLU	10	10	0.00	-137856.00	-4672.63	-4672.63	-61.25	-2757.11	-646245.00	-50653.20	-54982.00	1.09	4.688	173.96
6.00	1(e)	SLU	10	100.00	0.00	-136783.00	-2127.58	-2735.66	1575.56	2735.66	-646245.00	-50606.40	54937.80	1.09	4.725	173.96
6.50	1(e)	SLU	11	10	0.00	-126896.00	-1702.79	-2537.92	422.19	2537.92	-235892.00	-11370.70	12175.00	1.36	1.859	---
6.50	1(e)	SLU	11	10	0.00	-126896.00	-1702.79	-2537.92	422.19	2537.92	-235892.00	-11370.70	12175.00	1.36	1.859	---
7.35	1(e)	SLU	11	10	85.00	-126509.00	1977.49	2530.19	-516.50	-2530.19	-235892.00	11393.20	-12194.90	1.36	1.865	---
8.00	1(e)	SLU	12	10	0.00	-116139.00	-2886.52	-2886.52	-84.90	-2322.77	-235892.00	-11952.10	-12679.60	1.33	2.031	---
8.00	1(e)	SLU	12	10	0.00	-116139.00	-2886.52	-2886.52	-84.90	-2322.77	-235892.00	-11952.10	-12679.60	1.33	2.031	---
9.00	1(e)	SLU	12	100.00	0.00	-115684.00	-768.11	-2313.67	697.19	2313.67	-235892.00	-11975.00	12698.60	1.33	2.039	---
9.50	1(e)	SLU	13	10	0.00	-106305.00	-732.18	-2126.10	-30.73	-2126.10	-235892.00	-12420.30	-13062.40	1.29	2.219	---
9.50	1(e)	SLU	13	10	0.00	-106305.00	-732.18	-2126.10	-30.73	-2126.10	-235892.00	-12420.30	-13062.40	1.29	2.219	---
10.35	1(e)	SLU	13	10	85.00	-105919.00	1947.34	2118.37	-589.50	-2118.37	-235892.00	12437.60	-13076.10	1.29	2.227	---
11.00	1(e)	SLU	14	10	0.00	-96486.80	-2692.28	-2692.28	87.83	1929.74	-235892.00	-12840.20	13238.80	1.26	2.445	---
11.00	1(e)	SLU	14	10	0.00	-96486.80	-2692.28	-2692.28	87.83	1929.74	-235892.00	-12840.20	13238.80	1.26	2.445	---
12.00	1(e)	SLU	14	100.00	0.00	-96031.80	-699.89	-1920.64	696.93	1920.64	-235892.00	-12858.80	13235.40	1.26	2.456	---
12.50	1(e)	SLU	15	10	0.00	-86654.00	-664.89	-1733.08	-61.82	-1733.08	-235892.00	-12773.50	-13093.30	1.22	2.722	---
12.50	1(e)	SLU	15	10	0.00	-86654.00	-664.89	-1733.08	-61.82	-1733.08	-235892.00	-12773.50	-13093.30	1.22	2.722	---
13.35	1(e)	SLU	15	10	85.00	-86267.30	1768.37	1768.37	-572.54	-1725.35	-235892.00	12765.30	-13085.40	1.22	2.734	---
14.00	1(e)	SLU	16	10	0.00	-77505.10	-2418.75	-2418.75	142.04	1550.10	-235892.00	-12504.50	12851.90	1.19	3.044	---
14.00	1(e)	SLU	16	10	0.00	-77505.10	-2418.75	-2418.75	142.04	1550.10	-235892.00	-12504.50	12851.90	1.19	3.044	---
15.00	1(e)	SLU	16	100.00	0.00	-77050.10	-632.81	-1541.00	699.14	1541.00	-235892.00	-12487.20	12837.30	1.19	3.062	---
15.50	1(e)	SLU	17	7	0.00	-67646.10	-681.30	-1352.92	113.15	1352.92	-185194.00	-10696.40	7780.77	1.22	2.738	---
15.50	1(e)	SLU	17	7	0.00	-67646.10	-681.30	-1352.92	113.15	1352.92	-174161.00	-9273.25	7802.69	1.24	2.575	---
16.35	1(e)	SLU	17	7	85.00	-67356.00	1375.16	1375.16	-382.13	-1347.12	-174161.00	9268.40	-7798.94	1.24	2.586	---
17.00	1(e)	SLU	18	7	0.00	-59580.80	-1936.48	-1936.48	268.43	1191.62	-174161.00	-9074.64	7633.04	1.20	2.923	---
17.00	1(e)	SLU	18	7	0.00	-59580.80	-1936.48	-1936.48	268.43	1191.62	-174161.00	-9074.64	7633.04	1.20	2.923	---
18.00	1(e)	SLU	18	7	100.00	-59239.60	-434.40	-1184.79	352.67	1184.79	-174161.00	-9063.11	7622.92	1.20	2.940	---
18.50	1(e)	SLU	19	7	0.00	-49868.00	-577.55	-997.36	-38.54	-997.36	-174161.00	-8632.46	-7253.95	1.16	3.492	---
18.50	1(e)	SLU	19	7	0.00	-49868.00	-577.55	-997.36	-38.54	-997.36	-174161.00	-8632.46	-7253.95	1.16	3.492	---
19.35	1(e)	SLU	19	7	85.00	-49578.00	1231.43	1231.43	-400.07	-991.56	-174161.00	8615.30	-7239.54	1.15	3.513	---
20.00	1(e)	SLU	20	7	0.00	-42431.10	-1693.89	-1693.89	335.76	848.62	-42433.70	-8142.38	6834.17	1.12	3.716	---
20.00	1(e)	SLU	20	7	0.00	-42431.10	-1693.89	-1693.89	335.76	848.62	-42433.70	-8142.38	6834.17	1.12	3.716	---
21.00	1(e)	SLU	20	7	100.00	-42089.90	-396.85	-841.80	347.50	841.80	-174161.00	-8116.55	6812.71	1.12	4.138	---
21.50	1(e)	SLU	21	7	0.00	-32614.40	-580.55	-652.29	-98.70	-652.29	-174161.00	-7296.19	-6083.13	1.07	5.340	---
21.50	1(e)	SLU	21	7	0.00	-32614.40	-580.55	-652.29	-98.70	-652.29	-174161.00	-7296.19	-6083.13	1.07	5.340	---
22.35	1(e)	SLU	21	7	85.00	-32324.30	1136.62	1136.62	-405.13	646.49	-32325.40	7267.54	6057.27	1.07	4.386	---
23.00	1(e)	SLU	22	7	0.00	-25530.40	-1542.69	-1542.69	361.99	510.61	-25534.30	-6511.77	5432.49	1.04	3.228	---
23.00	1(e)	SLU	22	7	0.00	-25530.40	-1542.69	-1542.69	361.99	510.61	-25534.30	-6511.77	5432.49	1.04	3.228	---
24.00	1(e)	SLU	22	7	100.00	-25189.10	-376.36	-503.78	360.79	503.78	-25189.70	-6472.37	5399.42	1.04	6.402	---
24.50	1(e)	SLU	23	7	0.00	-15560.30	-572.14	-572.14	-106.21	311.21	-15564.40	-5296.67	4434.52	1.00	5.612	---
24.50	1(e)	SLU	23	7	0.00	-15560.30	-572.14	-572.14	-106.21	311.21	-15564.40	-5296.67	4434.52	1.00	5.612	---
25.35	1	SLU	23	7	85.00	-15270.30	1093.45	1093.45	-462.43	-462.43	-15272.70	5259.99	-4404.12	1.00	3.196	---
26.00	1	SLU	24	7	0.00	-8555.09	-1640.39	-1640.39	286.74	286.74	-8557.95	-4393.06	3693.97	1.00	2.217	---
26.00	1	SLU	24	7	0.00	-8555.09	-1640.39	-1640.39	286.74	286.74	-8557.95	-4393.06	3693.97	1.00	2.217	---
27.00	1(e)	SLU	24	7	100.00	-8213.84	-159.81	-164.28	503.81	503.81	-8217.26	-4348.88	3657.29	1.00	5.697	---

Relazione di calcolo

0.004	SLE Q	1	1	0.00	-44129.30	143.07	477.88	0.00	12.31	23.67	344.85
0.502	SLE R	1	1	50.00	-50689.70	-141.06	169.39	0.00	12.31	25.04	369.84
0.504	SLE Q	1	1	50.00	-43879.30	-121.54	140.62	0.00	12.31	21.64	319.71
0.502	SLE R	2	1	0.00	-51060.80	-139.75	59.07	0.00	12.31	24.62	365.17
0.504	SLE Q	2	1	0.00	-44198.80	-120.32	48.64	0.00	12.31	21.29	315.88
1.002	SLE R	2	1	50.00	-50810.80	47.69	-371.64	0.00	12.31	25.53	376.51
1.004	SLE Q	2	1	50.00	-43948.80	40.13	-309.48	0.00	12.31	22.02	324.81
1.002	SLE R	3	1	0.00	-51909.00	71.45	-386.42	0.00	12.31	26.27	386.84
1.004	SLE Q	3	1	0.00	-44904.80	60.39	-321.52	0.00	12.31	22.65	333.71
1.352	SLE R	3	1	35.00	-51734.00	33.11	-149.44	0.00	12.31	24.69	367.39
1.354	SLE Q	3	1	35.00	-44729.80	28.55	-124.23	0.00	12.31	21.32	317.32
2.002	SLE R	5	1	0.00	-56325.10	-158.60	-95.52	0.00	12.31	27.34	405.11
2.004	SLE Q	5	1	0.00	-48720.40	-137.31	-54.08	0.00	12.31	23.50	348.59
2.002	SLE R	5	1	0.00	-56325.10	-158.60	-95.52	0.00	12.31	27.34	405.11
2.004	SLE Q	5	1	0.00	-48720.40	-137.31	-54.08	0.00	12.31	23.50	348.59
2.382	SLE R	5	1	37.50	-56137.60	24.38	-336.07	0.00	12.31	27.63	408.99
2.384	SLE Q	5	1	37.50	-48532.90	18.75	-258.05	0.00	12.31	23.70	351.31
2.382	SLE R	6	1	0.00	-60656.40	-17.45	-391.75	0.00	12.31	29.95	443.08
2.384	SLE Q	6	1	0.00	-52425.10	-17.37	-305.29	0.00	12.31	25.72	380.98
2.752	SLE R	6	1	37.50	-60468.90	63.38	-617.42	0.00	12.31	31.36	459.89
2.754	SLE Q	6	1	37.50	-52237.60	49.28	-498.00	0.00	12.31	26.86	394.58
2.752	SLE R	7	1	0.00	-67121.60	112.49	-594.91	0.00	12.31	34.61	507.90
2.754	SLE Q	7	1	0.00	-57984.50	91.51	-480.40	0.00	12.31	29.68	436.16
3.002	SLE R	7	1	25.00	-66996.60	259.75	-319.82	0.00	12.31	34.09	500.65
3.004	SLE Q	7	1	25.00	-57859.50	223.96	-254.15	0.00	12.31	29.32	430.92
3.502	SLE R	9	10	0.00	-107712.00	-1730.32	-934.41	0.00	50.01	33.10	480.34
3.504	SLE Q	9	10	0.00	-92736.40	-1547.00	-687.60	0.00	50.01	28.33	411.49
3.502	SLE R	9	10	0.00	-107712.00	-1730.32	-934.41	0.00	46.94	33.44	485.38
3.504	SLE Q	9	10	0.00	-92736.40	-1547.00	-687.60	0.00	46.94	28.62	415.85
4.352	SLE R	9	10	85.00	-107011.00	-1259.86	2451.64	0.00	46.94	36.09	517.50
4.354	SLE Q	9	10	85.00	-92035.10	-1075.34	1866.63	0.00	46.94	30.39	437.04
5.002	SLE R	10	10	0.00	-98027.90	-34.16	-3277.64	0.00	46.94	33.08	473.73
5.004	SLE Q	10	10	0.00	-84885.50	-22.45	-2500.03	0.00	46.94	27.75	399.12
5.002	SLE R	10	10	0.00	-98027.90	-34.16	-3277.64	0.00	46.94	33.08	473.73
5.004	SLE Q	10	10	0.00	-84885.50	-22.45	-2500.03	0.00	46.94	27.75	399.12
6.002	SLE R	10	10	100.00	-97202.90	1105.07	-1483.73	0.00	46.94	30.76	444.97
6.004	SLE Q	10	10	100.00	-84060.50	976.68	-1104.78	0.00	46.94	26.19	379.70
6.502	SLE R	11	10	0.00	-90141.50	293.69	-1195.42	0.00	9.24	74.01	1050.73
6.504	SLE Q	11	10	0.00	-77485.90	218.92	-907.59	0.00	9.24	62.03	885.51
6.502	SLE R	11	10	0.00	-90141.50	293.69	-1195.42	0.00	9.24	74.01	1050.73
6.504	SLE Q	11	10	0.00	-77485.90	218.92	-907.59	0.00	9.24	62.03	885.51
7.352	SLE R	11	10	85.00	-89844.00	-361.20	1385.03	0.00	9.24	76.46	1077.41
7.354	SLE Q	11	10	85.00	-77188.40	-306.15	1040.44	0.00	9.24	64.08	907.76
8.002	SLE R	12	10	0.00	-82549.60	-57.48	-2025.01	0.00	9.24	75.56	1047.27
8.004	SLE Q	12	10	0.00	-71427.80	-66.38	-1536.18	0.00	9.24	63.26	882.83
8.002	SLE R	12	10	0.00	-82549.60	-57.48	-2025.01	0.00	9.24	75.56	1047.27
8.004	SLE Q	12	10	0.00	-71427.80	-66.38	-1536.18	0.00	9.24	63.26	882.83
9.002	SLE R	12	10	100.00	-82199.60	486.89	-533.46	0.00	9.24	63.72	917.52
9.004	SLE Q	12	10	100.00	-71077.80	444.70	-384.87	0.00	9.24	54.52	787.09
9.502	SLE R	13	10	0.00	-75515.40	-24.38	-517.64	0.00	9.24	54.77	799.28
9.504	SLE Q	13	10	0.00	-64850.80	-77.06	-394.98	0.00	9.24	47.05	686.85
9.502	SLE R	13	10	0.00	-75515.40	-24.38	-517.64	0.00	9.24	54.77	799.28
9.504	SLE Q	13	10	0.00	-64850.80	-77.06	-394.98	0.00	9.24	47.05	686.85
10.352	SLE R	13	10	85.00	-75217.90	-412.18	1361.46	0.00	9.24	67.20	937.71
10.354	SLE Q	13	10	85.00	-64553.30	-358.77	1002.19	0.00	9.24	55.96	785.94
11.002	SLE R	14	10	0.00	-68588.40	64.05	-1885.32	0.00	9.24	65.07	895.60
11.004	SLE Q	14	10	0.00	-59366.20	37.24	-1402.02	0.00	9.24	53.73	746.37
11.002	SLE R	14	10	0.00	-68588.40	64.05	-1885.32	0.00	9.24	65.07	895.60
11.004	SLE Q	14	10	0.00	-59366.20	37.24	-1402.02	0.00	9.24	53.73	746.37
12.002	SLE R	14	10	100.00	-68238.40	486.56	-485.41	0.00	9.24	54.14	775.77
12.004	SLE Q	14	10	100.00	-59016.20	461.48	-339.18	0.00	9.24	46.36	666.03
12.502	SLE R	15	10	0.00	-61554.70	-48.86	-471.13	0.00	9.24	45.44	660.46
12.504	SLE Q	15	10	0.00	-52756.50	-107.47	-352.60	0.00	9.24	39.04	567.36
12.502	SLE R	15	10	0.00	-61554.70	-48.86	-471.13	0.00	9.24	45.44	660.46
12.504	SLE Q	15	10	0.00	-52756.50	-107.47	-352.60	0.00	9.24	39.04	567.36
13.352	SLE R	15	10	85.00	-61257.20	-400.79	1234.65	0.00	9.24	56.68	785.56
13.354	SLE Q	15	10	85.00	-52459.00	-352.56	889.50	0.00	9.24	46.86	654.20
14.002	SLE R	16	10	0.00	-55100.90	102.12	-1692.42	0.00	9.24	54.64	745.83
14.004	SLE Q	16	10	0.00	-47690.90	72.45	-1231.81	0.00	9.24	44.68	616.60
14.002	SLE R	16	10	0.00	-55100.90	102.12	-1692.42	0.00	9.24	54.64	745.83
14.004	SLE Q	16	10	0.00	-47690.90	72.45	-1231.81	0.00	9.24	44.68	616.60
15.002	SLE R	16	10	100.00	-54750.90	489.72	-437.02	0.00	9.24	44.89	638.98
15.004	SLE Q	16	10	100.00	-47340.90	467.84	-294.62	0.00	9.24	38.36	547.71
15.502	SLE R	17	7	0.00	-48049.00	75.47	-480.65	0.00	9.24	48.16	691.08
15.504	SLE Q	17	7	0.00	-41065.60	23.99	-355.86	0.00	9.24	39.74	575.36
15.502	SLE R	17	7	0.00	-48049.00	75.47	-480.65	0.00	6.16	50.20	720.07
15.504	SLE Q	17	7	0.00	-41065.60	23.99	-355.86	0.00	6.16	41.43	599.62
16.352	SLE R	17	7	85.00	-47825.90	-267.07	958.57	0.00	6.16	60.07	826.28
16.354	SLE Q	17	7	85.00	-40842.50	-229.59	672.58	0.00	6.16	49.24	682.84

Relazione di calcolo

17.00	2	SLE R	18	7	0.00	-42371.20	189.77	-1352.88	0.00	6.16	59.62	803.32
17.00	4	SLE Q	18	7	0.00	-36664.60	144.87	-959.95	0.00	6.16	48.25	658.46
17.00	2	SLE R	18	7	0.00	-42371.20	189.77	-1352.88	0.00	6.16	59.62	803.32
17.00	4	SLE Q	18	7	0.00	-36664.60	144.87	-959.95	0.00	6.16	48.25	658.46
18.00	2	SLE R	18	7	100.00	-42108.70	246.67	-298.38	0.00	6.16	45.29	643.39
18.00	4	SLE Q	18	7	100.00	-36402.10	239.79	-190.78	0.00	6.16	38.64	550.26
18.50	2	SLE R	19	7	0.00	-35433.80	-31.29	-408.20	0.00	6.16	37.38	535.22
18.50	4	SLE Q	19	7	0.00	-30171.10	-76.52	-303.45	0.00	6.16	32.04	457.53
18.50	2	SLE R	19	7	0.00	-35433.80	-31.29	-408.20	0.00	6.16	37.38	535.22
18.50	4	SLE Q	19	7	0.00	-30171.10	-76.52	-303.45	0.00	6.16	32.04	457.53
19.35	2	SLE R	19	7	85.00	-35210.70	-279.50	856.06	0.00	6.16	47.77	646.63
19.35	4	SLE Q	19	7	85.00	-29948.00	-242.83	581.68	0.00	6.16	38.63	527.76
20.00	2	SLE R	20	7	0.00	-30202.70	237.38	-1180.28	0.00	6.16	47.30	624.66
20.00	4	SLE Q	20	7	0.00	-26156.00	186.50	-809.13	0.00	6.16	37.60	503.98
20.00	2	SLE R	20	7	0.00	-30202.70	237.38	-1180.28	0.00	6.16	47.30	624.66
20.00	4	SLE Q	20	7	0.00	-26156.00	186.50	-809.13	0.00	6.16	37.60	503.98
21.00	2	SLE R	20	7	100.00	-29940.20	242.85	-271.45	0.00	6.16	34.19	478.69
21.00	4	SLE Q	20	7	100.00	-25893.50	239.57	-167.00	0.00	6.16	29.10	408.48
21.50	2	SLE R	21	7	0.00	-23193.20	-73.64	-410.17	0.00	6.16	27.40	382.25
21.50	4	SLE Q	21	7	0.00	-19595.30	-116.16	-304.56	0.00	6.16	23.47	325.81
21.50	2	SLE R	21	7	0.00	-23193.20	-73.64	-410.17	0.00	6.16	27.40	382.25
21.50	4	SLE Q	21	7	0.00	-19595.30	-116.16	-304.56	0.00	6.16	23.47	325.81
22.35	2	SLE R	21	7	85.00	-22970.10	-282.90	788.29	0.00	6.16	36.15	475.81
22.35	4	SLE Q	21	7	85.00	-19372.10	-246.52	522.80	0.00	6.16	28.59	380.25
23.00	2	SLE R	22	7	0.00	-18214.50	256.13	-1072.14	0.00	6.16	35.71	454.73
23.00	4	SLE Q	22	7	0.00	-15801.40	203.35	-713.48	0.00	6.16	27.46	355.88
23.00	2	SLE R	22	7	0.00	-18214.50	256.13	-1072.14	0.00	6.16	35.71	454.73
23.00	4	SLE Q	22	7	0.00	-15801.40	203.35	-713.48	0.00	6.16	27.46	355.88
24.00	2	SLE R	22	7	100.00	-17952.00	251.81	-256.87	0.00	6.16	23.64	320.55
24.00	4	SLE Q	22	7	100.00	-15538.90	247.02	-156.68	0.00	6.16	20.02	272.20
24.50	2	SLE R	23	7	0.00	-11099.60	-80.18	-403.89	0.00	6.16	16.84	223.61
24.50	4	SLE Q	23	7	0.00	-9159.41	-128.76	-305.96	0.00	6.16	14.56	191.21
24.50	2	SLE R	23	7	0.00	-11099.60	-80.18	-403.89	0.00	6.16	16.84	223.61
24.50	4	SLE Q	23	7	0.00	-9159.41	-128.76	-305.96	0.00	6.16	14.56	191.21
25.35	2	SLE R	23	7	85.00	-10876.40	-323.15	756.45	1.54	4.62	26.85	329.10
25.35	4	SLE Q	23	7	85.00	-8936.28	-276.05	498.09	1.54	4.62	19.96	247.92
26.00	2	SLE R	24	7	0.00	-6172.18	207.25	-1140.21	3.08	3.08	36.93	549.82
26.00	4	SLE Q	24	7	0.00	-5400.99	173.12	-763.58	3.08	3.08	24.43	269.05
26.00	2	SLE R	24	7	0.00	-6172.18	207.25	-1140.21	3.08	3.08	36.93	549.82
26.00	4	SLE Q	24	7	0.00	-5400.99	173.12	-763.58	3.08	3.08	24.43	269.05
27.00	2	SLE R	24	7	100.00	-5909.68	349.90	-102.04	1.54	4.62	12.76	157.26
27.00	4	SLE Q	24	7	100.00	-5138.49	312.33	-41.97	0.00	6.16	10.50	130.12

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 off}	σ _s	ε _{sm}	Wk
<mm>					<cm>	<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
26.00	4	SLE Q	24	7	0.00	-5400.99	-763.58	173.12	39.00	208.00	0.50	14.00	152.71	1.54	82.15	251.50	0.07	0.02
26.00	3	SLE F	24	7	0.00	-5592.89	-871.10	184.61	39.00	208.00	0.50	14.00	167.38	1.54	98.28	335.48	0.10	0.03
26.00	4	SLE Q	24	7	0.00	-5400.99	-763.58	173.12	39.00	208.00	0.50	14.00	152.71	1.54	82.15	251.50	0.07	0.02
26.00	3	SLE F	24	7	0.00	-5592.89	-871.10	184.61	39.00	208.00	0.50	14.00	167.38	1.54	98.28	335.48	0.10	0.03

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0	X1	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRsdCam _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRsdCam _z	VRcd _z	Vrd _z
<mm>	<mm>							<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	<daN>	<mm>	<mm>	<daN>		<daN>	<daN>	<daN>	<daN>
0.00	1.35	ø8/20	2	2	---	1	SLU	0.50	0.35	857.48	2.50	12369.40	---	32873.20	12369.40	0.40	0.45	1106.29	2.50	15893.50	---	33791.00	15893.50
2.00	3.00	ø8/20	2	2	---	1	SLU	0.50	0.35	829.71	2.50	12369.40	---	32873.20	12369.40	0.40	0.45	1537.45	2.50	15893.50	---	33791.00	15893.50
3.50	4.35	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	747.05	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	5692.71	2.50	0.00	44432.50	82434.00	39989.30
5.00	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	1636.81	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2545.05	2.50	0.00	44432.50	82434.00	39989.30
6.50	7.35	ø6/15	2	2	---	1	SLU	0.35	0.35	1104.34	1.10	4079.09	---	4079.09	4079.09	0.40	0.30	4329.74	1.23	3928.21	---	3928.21	3928.21
8.00	9.00	ø6/15	2	2	---	1	SLU	0.35	0.35	782.09	2.02	7486.47	---	7486.47	7486.47	0.40	0.30	2118.40	2.19	6967.88	---	6967.88	6967.88
9.50	10.35	ø6/15	2	2	---	1	SLU	0.35	0.35	657.37	2.50	9277.05	---	9835.10	9277.05	0.40	0.30	3152.37	2.50	7955.54	---	9638.96	7955.54
11.00	12.00	ø6/15	2	2	---	1	SLU	0.35	0.35	609.10	2.50	9277.05	---	13177.40	9277.05	0.40	0.30	1992.39	2.50	7955.54	---	12914.60	7955.54
12.50	13.35	ø6/15	2	2	---	1	SLU	0.35	0.35	600.84	2.50	9277.05	---	16524.60	9277.05	0.40	0.30	2862.66	2.50	7955.54	---	16195.00	7955.54
14.00	15.00	ø6/15	2	2	---	1	SLU	0.35	0.35	557.11	2.50	9277.05	---	19638.90	9277.05	0.40	0.30	1785.95	2.50	7955.54	---	19247.30	7955.54
15.50	16.35	ø6/15	2	2	---	1	SLU	0.35	0.25	582.68	2.50	6634.02	---	10954.80	6634.02	0.30	0.30	2419.36	2.50	7955.54	---	11260.30	7955.54
17.00	18.00	ø6/15	2	2	---	1	SLU	0.35	0.25	84.25	2.50	6634.02	---	13572.50	6634.02	0.30	0.30	1502.08	2.50	7955.54	---	13951.10	7955.54
18.50	19.35	ø6/15	2	2	---	1	SLU	0.35	0.25	425.33	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	2128.22	2.50	7955.54	---	16914.20	7955.54
20.00	21.00	ø6/15	2	2	---	1	SLU	0.35	0.25	11.74	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1297.04	2.50	7955.54	---	16914.20	7955.54
21.50	22.35	ø6/15	2	2	---	1	SLU	0.35	0.25	360.51	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	2020.20	2.50	7955.54	---	16914.20	7955.54
23.00	24.00	ø6/15	2	2	---	1	SLU	0.35	0.25	1.21	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1166.33	2.50	7955.54	---	16914.20	7955.54
24.50	25.35	ø6/15	2	2	---	1	SLU	0.35	0.25	419.09	2.50	6634.02	---	15184.40	6634.02	0.30	0.30	1959.52	2.50	7955.54	---	15607.90	7955.54
26.00	27.00	ø6/15	2	2	---	1	SLU	0.35	0.25	217.08	2.50	6634.02	---	14274.90	6634.02	0.30	0.30	1480.58	2.50	7955.54	---	14673.00	7955.54

Pilastrata n. 38

Nodi: 38 -7226 -7228 -7230 238 -7209 -7211 -7213 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	H	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
		<cm>	<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1	R	40.00	50.00	3.00	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
1	R	40.00	50.00	4.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

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

Caratteristiche incamiciatura e materiali utilizzati

B	H	Fck	Fcd	Fyk	Fyd
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
60.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	esp.	Sic.	Δs
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>			
0.00	1(e)	SLU	1	1	0.00	-74144.80	685.60	1482.90	-164.22	-1482.90	-333837.00	21413.90	-16826.40	1.10	4.503	---
0.00	1(e)	SLU	1	1	0.00	-74144.80	685.60	1482.90	-164.22	-1482.90	-333837.00	21413.90	-16826.40	1.10	4.503	---
0.50	1(e)	SLU	1	1	50.00	-73819.80	213.54	1476.40	188.76	1476.40	-333837.00	21390.00	16807.10	1.10	4.522	---
0.50	1(e)	SLU	2	1	0.00	-74711.80	80.43	1494.24	199.80	1494.24	-333837.00	21456.00	16860.20	1.10	4.468	---
1.00	1(e)	SLU	2	1	50.00	-74386.80	-451.67	-1487.74	-103.08	-1487.74	-333837.00	-21432.10	-16840.90	1.10	4.488	---
1.00	1(e)	SLU	3	1	0.00	-76354.00	-475.46	-1527.08	-124.64	-1527.08	-333837.00	-21577.10	-16956.70	1.11	4.372	---
1.35	1(e)	SLU	3	1	35.00	-76126.50	-189.12	-1522.53	-62.14	-1522.53	-333837.00	-21560.30	-16943.40	1.11	4.385	---
2.00	1(e)	SLU	5	1	0.00	-78785.90	-2314.77	-2314.77	124.97	1575.72	-333837.00	-21752.70	17097.70	1.11	4.237	---
2.00	1(e)	SLU	5	1	0.00	-78785.90	-2314.77	-2314.77	124.97	1575.72	-333837.00	-21752.70	17097.70	1.11	4.237	---
2.38	1(e)	SLU	5	1	37.50	-78542.10	-1635.54	-1635.54	-2.99	-1570.84	-333837.00	-21735.40	-17083.70	1.11	4.250	---
2.38	1(e)	SLU	6	1	0.00	-84659.70	-1477.33	-1693.19	54.88	1693.19	-333837.00	-22161.00	17423.90	1.13	3.943	---
2.75	1(e)	SLU	6	1	37.50	-84416.00	-806.24	-1688.32	98.00	1688.32	-333837.00	-22144.50	17410.80	1.13	3.955	---
2.75	1(e)	SLU	7	1	0.00	-93899.50	-680.93	-1877.99	26.44	1877.99	-333837.00	-22748.70	17894.80	1.15	3.555	---
3.00	1(e)	SLU	7	1	25.00	-93737.00	-402.96	-1874.74	-282.80	-1874.74	-333837.00	-22739.10	-17887.10	1.15	3.561	---
3.50	1(e)	SLU	9	10	0.00	-152628.00	-1912.35	-3052.56	3788.27	3788.27	-657277.00	-51372.90	57047.70	1.11	4.306	166.19
3.50	1(e)	SLU	9	10	0.00	-152628.00	-1912.35	-3052.56	3788.27	3788.27	-646245.00	-51270.50	55566.80	1.11	4.234	173.96
4.35	1(e)	SLU	9	10	85.00	-151716.00	4012.15	4012.15	1374.92	3034.33	-646245.00	51234.10	55532.00	1.11	4.260	173.96
5.00	1(e)	SLU	10	10	0.00	-137989.00	-4738.77	-4738.77	-1639.28	-2759.78	-646245.00	-50659.20	-54987.50	1.09	4.683	173.96
5.00	1(e)	SLU	10	10	0.00	-137989.00	-4738.77	-4738.77	-1639.28	-2759.78	-646245.00	-50659.20	-54987.50	1.09	4.683	173.96
6.00	1(e)	SLU	10	10	100.00	-136916.00	-2532.84	-2738.33	-1289.20	-2738.33	-646245.00	-50612.20	-54943.20	1.09	4.720	173.96
6.50	1(e)	SLU	11	10	0.00	-127180.00	-1968.05	-2543.60	324.11	2543.60	-235892.00	-11354.40	12160.60	1.37	1.855	---
6.50	1(e)	SLU	11	10	0.00	-127180.00	-1968.05	-2543.60	324.11	2543.60	-235892.00	-11354.40	12160.60	1.37	1.855	---
7.35	1(e)	SLU	11	10	85.00	-126793.00	2187.76	2535.86	365.47	2535.86	-235892.00	11376.60	12180.50	1.36	1.860	---
8.00	1(e)	SLU	12	10	0.00	-115938.00	-2968.94	-2968.94	-704.15	-2318.75	-235892.00	-11962.10	-12688.00	1.33	2.035	---
8.00	1(e)	SLU	12	10	0.00	-115938.00	-2968.94	-2968.94	-704.15	-2318.75	-235892.00	-11962.10	-12688.00	1.33	2.035	---
9.00	1(e)	SLU	12	10	100.00	-115483.00	-926.96	-2309.65	-348.50	-2309.65	-235892.00	-11985.20	-12707.00	1.32	2.043	---
9.50	1(e)	SLU	13	10	0.00	-106131.00	-800.14	-2122.61	467.56	2122.61	-235892.00	-12428.00	13068.60	1.29	2.223	---
9.50	1(e)	SLU	13	10	0.00	-106131.00	-800.14	-2122.61	467.56	2122.61	-235892.00	-12428.00	13068.60	1.29	2.223	---
10.35	1(e)	SLU	13	10	85.00	-105744.00	2104.06	2114.88	448.17	2114.88	-235892.00	12445.40	13082.30	1.29	2.231	---
11.00	1(e)	SLU	14	10	0.00	-96087.00	-2734.76	-2734.76	-686.57	-1921.74	-235892.00	-12856.40	-13235.80	1.26	2.455	---
11.00	1(e)	SLU	14	10	0.00	-96087.00	-2734.76	-2734.76	-686.57	-1921.74	-235892.00	-12856.40	-13235.80	1.26	2.455	---
12.00	1(e)	SLU	14	10	100.00	-95632.00	-825.99	-1912.64	-344.95	-1912.64	-235892.00	-12874.90	-13231.30	1.25	2.467	---
12.50	1(e)	SLU	15	10	0.00	-86305.50	-725.09	-1726.11	418.84	1726.11	-235892.00	-12766.10	13086.20	1.22	2.733	---
12.50	1(e)	SLU	15	10	0.00	-86305.50	-725.09	-1726.11	418.84	1726.11	-235892.00	-12766.10	13086.20	1.22	2.733	---
13.35	1(e)	SLU	15	10	85.00	-85918.70	1864.50	1864.50	492.25	1718.37	-235892.00	12757.90	13078.20	1.22	2.746	---
14.00	1(e)	SLU	16	10	0.00	-77114.90	-2418.67	-2418.67	-559.56	-1542.30	-235892.00	-12489.70	-12839.40	1.19	3.059	---
14.00	1(e)	SLU	16	10	0.00	-77114.90	-2418.67	-2418.67	-559.56	-1542.30	-235892.00	-12489.70	-12839.40	1.19	3.059	---
15.00	1(e)	SLU	16	10	100.00	-76659.90	-731.08	-1533.20	-494.03	-1533.20	-235892.00	-12472.40	-12824.80	1.19	3.077	---
15.50	1(e)	SLU	17	7	0.00	-67223.90	-681.15	-1344.48	41.64	1344.48	-185194.00	-10689.30	7775.39	1.22	2.755	---
15.50	1(e)	SLU	17	7	0.00	-67223.90	-681.15	-1344.48	41.64	1344.48	-185194.00	-10689.30	7775.39	1.22	2.755	---
16.35	1(e)	SLU	17	7	85.00	-66933.80	1407.94	1407.94	364.46	1338.68	-185194.00	10684.40	7771.69	1.22	2.767	---
17.00	1(e)	SLU	18	7	0.00	-59330.50	-1908.66	-1908.66	-409.45	-1186.61	-185194.00	-10489.30	-7643.25	1.18	3.121	---
17.00	1(e)	SLU	18	7	0.00	-59330.50	-1908.66	-1908.66	-409.45	-1186.61	-185194.00	-10489.30	-7643.25	1.18	3.121	---
18.00	1(e)	SLU	18	7	100.00	-58989.30	-480.13	-1179.79	-294.63	-1179.79	-185194.00	-10477.80	-7636.13	1.18	3.139	---
18.50	1(e)	SLU	19	7	0.00	-49584.90	-521.53	-991.70	93.57	991.70	-185194.00	-10039.20	7401.76	1.14	3.735	---
18.50	1(e)	SLU	19	7	0.00	-49584.90	-521.53	-991.70	93.57	991.70	-185194.00	-10039.20	7401.76	1.14	3.735	---
19.35	1(e)	SLU	19	7	85.00	-49294.80	1206.54	1206.54	405.19	985.90	-185194.00	10022.10	7393.50	1.14	3.757	---
20.00	1(e)	SLU	20	7	0.00	-42528.30	-1631.44	-1631.44	-367.93	850.57	-42532.00	-9572.73	7185.11	1.11	4.259	---
20.00	1(e)	SLU	20	7	0.00	-42528.30	-1631.44	-1631.44	-367.93	850.57	-42532.00	-9572.73	7185.11	1.11	4.259	---
21.00	1(e)	SLU	20	7	100.00	-42187.10	-403.22	-843.74	-350.58	-843.74	-185194.00	-9547.05	-7173.92	1.11	4.390	---
21.50	1(e)	SLU	21	7	0.00	-32714.60	-493.81	-654.29	84.96	654.29	-185194.00	-8728.87	6844.46	1.06	5.661	---
21.50	1(e)	SLU	21	7	0.00	-32714.60	-493.81	-654.29	84.96	654.29	-185194.00	-8728.87	6844.46	1.06	5.661	---
22.35	1(e)	SLU	21	7	85.00	-32424.60	1064.00	1064.00	425.44	648.49	-32428.90	8700.58	6833.88	1.06	5.288	---
23.00	1(e)	SLU	22	7	0.00	-26231.50	-1386.70	-1386.70	-322.73	-524.63	-26234.30	-8004.82	-6474.53	1.03	4.215	---
23.00	1(e)	SLU	22	7	0.00	-26231.50	-1386.70	-1386.70	-322.73	-524.63	-26234.30	-8004.82	-6474.53	1.03	4.215	---
24.00	1(e)	SLU	22	7	100.00	-25890.20	-425.63	-517.80	-399.99	-517.80	-185194.00	-7964.74	-6446.63	1.03	7.153	---
24.50	1(e)	SLU	23	7	0.00	-16394.30	-673.10	-673.10	55.32	-327.88	-16394.30	-6815.79	-5612.00	1.00	6.362	---
24.50	1(e)	SLU	23	7	0.00	-16394.30	-673.10	-673.10	55.32	-327.88	-16394.30	-6815.79	-5612.00	1.00	6.362	---
25.35	1	SLU	23	7	85.00	-16104.20	1258.40	1258.40	463.65	463.65	-16106.70	6779.86	5585.34	1.00	3.723	---
26.00	1	SLU	24	7	0.00	-8517.94	-1895.83	-1895.83	-400.37	-400.37	-8522.32	-5815.30	-4843.89	1.00	2.447	---
26.00	1	SLU	24	7	0.00	-8517.94	-1895.83	-1895.83	-400.37	-400.37	-8522.32	-5815.30	-4843.89	1.00	2.447	---
27.00	1	SLU	24	7	100.00	-8176.69	-177.66	-177.66	-440.39	-440.39	-8179.06	-5771.01	-4808.97	1.00	8.172	---

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	-52847.10	-118.17	503.35	0.00	12.31	27.63	404.43
0.00	4	SLE	Q	1	1	0.00	-45596.50	-100.45	417.19	0.00	12.31	23.74	347.72
0.00	2	SLE	R	1	1	0.00	-52847.10	-118.17	503.35	0.00	12.31	27.63	404.43
0.00	4	SLE	Q	1	1	0.00	-45596.50	-100.45	417.19	0.00	12.31	23.74	347.72
0.50	2	SLE	R	1	1	50.00	-52597.10	134.73	156.11	0.00	12.31	25.80	381.59
0.50	4	SLE	Q	1	1	50.00	-45346.50	116.69	128.52	0.00	12.31	22.21	328.63
0.50	2	SLE	R	2	1	0.00	-53226.90	142.43	58.41	0.00	12.31	25.62	380.20
0.50	4	SLE	Q	2	1	0.00	-45891.90	123.42	47.54	0.00	12.31	22.08	327.67
1.00	2	SLE	R	2	1	50.00	-52976.90	-72.99	-331.13	0.00	12.31	26.48	390.72
1.00	4	SLE	Q	2	1	50.00	-45641.90	-64.15	-273.82	0.00	12.31	22.76	335.98
1.00	2	SLE	R	3	1	0.00	-54371.90	-88.41	-348.27	0.00	12.31	27.31	402.60
1.00	4	SLE	Q	3	1	0.00	-46840.30	-77.64	-287.61	0.00	12.31	23.47	346.14
1.35	2	SLE	R	3	1	35.00	-54196.90	-44.04	-138.31	0.00	12.31	25.83	384.43
1.35	4	SLE	Q	3	1	35.00	-46665.30	-38.16	-113.94	0.00	12.31	22.22	330.69
2.00	2	SLE	R	5	1	0.00	-56094.10	88.55	-1614.85	0.00	12.31	34.78	496.14
2.00	4	SLE	Q	5	1	0.00	-48562.40	83.80	-1227.35	0.00	12.31	29.26	419.06
2.00	2	SLE	R	5	1	0.00	-56094.10	88.55	-1614.85	0.00	12.31	34.78	496.14

Relazione di calcolo

2.00	4	SLE Q	5	1	0.00	-48562.40	83.80	-1227.35	0.00	12.31	29.26	419.06
2.38	2	SLE R	5	1	37.50	-55906.60	-2.15	-1147.39	0.00	12.31	31.65	458.03
2.38	4	SLE Q	5	1	37.50	-48374.90	-1.62	-884.46	0.00	12.31	26.81	389.32
2.38	2	SLE R	6	1	0.00	-60254.00	38.90	-1038.45	0.00	12.31	33.31	483.69
2.38	4	SLE Q	6	1	0.00	-52140.60	34.07	-804.56	0.00	12.31	28.33	412.52
2.75	2	SLE R	6	1	37.50	-60066.50	68.79	-576.30	0.00	12.31	30.99	454.89
2.75	4	SLE Q	6	1	37.50	-51953.10	52.44	-465.97	0.00	12.31	26.59	390.81
2.75	2	SLE R	7	1	0.00	-66804.80	17.93	-488.25	0.00	12.31	33.27	491.55
2.75	4	SLE Q	7	1	0.00	-57770.90	8.76	-398.00	0.00	12.31	28.60	423.00
3.00	2	SLE R	7	1	25.00	-66679.80	-201.08	-286.87	0.00	12.31	33.38	491.83
3.00	4	SLE Q	7	1	25.00	-57645.90	-178.02	-230.24	0.00	12.31	28.79	424.37
3.50	2	SLE R	9	10	0.00	-108521.00	2677.33	-1333.38	0.00	50.01	36.57	524.28
3.50	4	SLE Q	9	10	0.00	-93434.90	2330.29	-1020.83	0.00	50.01	31.21	448.05
3.50	2	SLE R	9	10	0.00	-108521.00	2677.33	-1333.38	0.00	46.94	36.93	529.61
3.50	4	SLE Q	9	10	0.00	-93434.90	2330.29	-1020.83	0.00	46.94	31.53	452.64
4.35	2	SLE R	9	10	85.00	-107820.00	970.89	2820.00	0.00	46.94	36.56	523.73
4.35	4	SLE Q	9	10	85.00	-92733.60	852.14	2177.44	0.00	46.94	30.84	442.98
5.00	2	SLE R	10	10	0.00	-98128.40	-1152.18	-3332.07	0.00	46.94	35.90	509.33
5.00	4	SLE Q	10	10	0.00	-84965.40	-928.60	-2564.97	0.00	46.94	30.09	428.64
5.00	2	SLE R	10	10	0.00	-98128.40	-1152.18	-3332.07	0.00	46.94	35.90	509.33
5.00	4	SLE Q	10	10	0.00	-84965.40	-928.60	-2564.97	0.00	46.94	30.09	428.64
6.00	2	SLE R	10	10	100.00	-97303.40	-901.67	-1772.11	0.00	46.94	31.05	448.54
6.00	4	SLE Q	10	10	100.00	-84140.40	-823.58	-1346.94	0.00	46.94	26.47	383.21
6.50	2	SLE R	11	10	0.00	-90349.80	225.65	-1382.71	0.00	9.24	75.47	1067.06
6.50	4	SLE Q	11	10	0.00	-77662.20	190.34	-1062.69	0.00	9.24	63.51	902.14
6.50	2	SLE R	11	10	0.00	-90349.80	225.65	-1382.71	0.00	9.24	75.47	1067.06
6.50	4	SLE Q	11	10	0.00	-77662.20	190.34	-1062.69	0.00	9.24	63.51	902.14
7.35	2	SLE R	11	10	85.00	-90052.30	256.00	1535.09	0.00	9.24	77.17	1085.29
7.35	4	SLE Q	11	10	85.00	-77364.70	218.01	1170.18	0.00	9.24	64.71	914.84
8.00	2	SLE R	12	10	0.00	-82406.00	-491.31	-2087.37	0.00	9.24	80.28	1101.19
8.00	4	SLE Q	12	10	0.00	-71281.60	-375.43	-1597.86	0.00	9.24	66.78	922.83
8.00	2	SLE R	12	10	0.00	-82406.00	-491.31	-2087.37	0.00	9.24	80.28	1101.19
8.00	4	SLE Q	12	10	0.00	-71281.60	-375.43	-1597.86	0.00	9.24	66.78	922.83
9.00	2	SLE R	12	10	100.00	-82056.00	-244.15	-645.87	0.00	9.24	62.48	902.34
9.00	4	SLE Q	12	10	100.00	-70931.60	-244.97	-479.81	0.00	9.24	53.51	774.62
9.50	2	SLE R	13	10	0.00	-75392.70	323.73	-564.02	0.00	9.24	58.05	836.65
9.50	4	SLE Q	13	10	0.00	-64730.10	294.71	-427.69	0.00	9.24	49.41	713.59
9.50	2	SLE R	13	10	0.00	-75392.70	323.73	-564.02	0.00	9.24	58.05	836.65
9.50	4	SLE Q	13	10	0.00	-64730.10	294.71	-427.69	0.00	9.24	49.41	713.59
10.35	2	SLE R	13	10	85.00	-75095.20	313.57	1473.53	0.00	9.24	67.35	938.66
10.35	4	SLE Q	13	10	85.00	-64432.60	275.95	1099.19	0.00	9.24	56.11	786.90
11.00	2	SLE R	14	10	0.00	-68298.20	-478.18	-1919.59	0.00	9.24	69.22	942.63
11.00	4	SLE Q	14	10	0.00	-59080.90	-364.23	-1438.89	0.00	9.24	57.06	784.10
11.00	2	SLE R	14	10	0.00	-68298.20	-478.18	-1919.59	0.00	9.24	69.22	942.63
11.00	4	SLE Q	14	10	0.00	-59080.90	-364.23	-1438.89	0.00	9.24	57.06	784.10
12.00	2	SLE R	14	10	100.00	-67948.20	-241.44	-574.01	0.00	9.24	52.53	756.12
12.00	4	SLE Q	14	10	100.00	-58730.90	-252.80	-415.20	0.00	9.24	44.98	649.00
12.50	2	SLE R	15	10	0.00	-61303.40	286.54	-510.99	0.00	9.24	47.98	688.99
12.50	4	SLE Q	15	10	0.00	-52523.50	281.91	-382.41	0.00	9.24	40.87	587.88
12.50	2	SLE R	15	10	0.00	-61303.40	286.54	-510.99	0.00	9.24	47.98	688.99
12.50	4	SLE Q	15	10	0.00	-52523.50	281.91	-382.41	0.00	9.24	40.87	587.88
13.35	2	SLE R	15	10	85.00	-61005.90	343.75	1303.34	0.00	9.24	56.69	784.80
13.35	4	SLE Q	15	10	85.00	-52226.00	309.42	949.78	0.00	9.24	46.93	654.18
14.00	2	SLE R	16	10	0.00	-54813.40	-389.21	-1695.73	0.00	9.24	57.24	775.21
14.00	4	SLE Q	16	10	0.00	-47403.10	-285.61	-1244.53	0.00	9.24	46.67	638.88
14.00	2	SLE R	16	10	0.00	-54813.40	-389.21	-1695.73	0.00	9.24	57.24	775.21
14.00	4	SLE Q	16	10	0.00	-47403.10	-285.61	-1244.53	0.00	9.24	46.67	638.88
15.00	2	SLE R	16	10	100.00	-54463.40	-343.79	-505.93	0.00	9.24	44.03	628.05
15.00	4	SLE Q	16	10	100.00	-47053.10	-353.38	-352.95	0.00	9.24	37.69	539.03
15.50	2	SLE R	17	7	0.00	-47741.30	24.84	-478.50	0.00	9.24	47.02	677.98
15.50	4	SLE Q	17	7	0.00	-40782.10	42.77	-349.09	0.00	9.24	39.73	574.07
15.50	2	SLE R	17	7	0.00	-47741.30	24.84	-478.50	0.00	9.24	47.02	677.98
15.50	4	SLE Q	17	7	0.00	-40782.10	42.77	-349.09	0.00	9.24	39.73	574.07
16.35	2	SLE R	17	7	85.00	-47518.10	255.09	981.85	0.00	9.24	57.48	790.42
16.35	4	SLE Q	17	7	85.00	-40559.00	222.58	694.31	0.00	9.24	47.22	654.15
17.00	2	SLE R	18	7	0.00	-42179.50	-284.70	-1335.88	0.00	9.24	58.25	780.84
17.00	4	SLE Q	18	7	0.00	-36455.00	-205.19	-955.08	0.00	9.24	46.97	638.04
17.00	2	SLE R	18	7	0.00	-42179.50	-284.70	-1335.88	0.00	9.24	58.25	780.84
17.00	4	SLE Q	18	7	0.00	-36455.00	-205.19	-955.08	0.00	9.24	46.97	638.04
18.00	2	SLE R	18	7	100.00	-41917.00	-205.71	-329.96	0.00	9.24	43.18	614.20
18.00	4	SLE Q	18	7	100.00	-36192.50	-213.46	-217.22	0.00	9.24	36.98	526.57
18.50	2	SLE R	19	7	0.00	-35219.80	60.61	-366.50	0.00	9.24	35.58	509.60
18.50	4	SLE Q	19	7	0.00	-29956.30	81.60	-260.93	0.00	9.24	30.09	431.17
18.50	2	SLE R	19	7	0.00	-35219.80	60.61	-366.50	0.00	9.24	35.58	509.60
18.50	4	SLE Q	19	7	0.00	-29956.30	81.60	-260.93	0.00	9.24	30.09	431.17
19.35	2	SLE R	19	7	85.00	-34996.70	283.74	838.27	0.00	9.24	45.50	616.10
19.35	4	SLE Q	19	7	85.00	-29733.10	249.76	568.35	0.00	9.24	36.87	503.59
20.00	2	SLE R	20	7	0.00	-30252.90	-255.11	-1138.54	0.00	9.24	45.06	595.80
20.00	4	SLE Q	20	7	0.00	-26141.90	-180.98	-783.33	0.00	9.24	35.58	478.12

Relazione di calcolo

20.00	2	SLE R	20	7	0.00	-30252.90	-255.11	-1138.54	0.00	9.24	45.06	595.80
20.00	4	SLE Q	20	7	0.00	-26141.90	-180.98	-783.33	0.00	9.24	35.58	478.12
21.00	2	SLE R	20	7	100.00	-29990.40	-245.12	-275.13	0.00	9.24	33.07	462.46
21.00	4	SLE Q	20	7	100.00	-25879.40	-249.19	-169.47	0.00	9.24	28.26	395.59
21.50	2	SLE R	21	7	0.00	-23245.10	54.39	-346.59	0.00	9.24	25.13	354.42
21.50	4	SLE Q	21	7	0.00	-19596.30	79.06	-243.75	0.00	9.24	21.10	297.43
21.50	2	SLE R	21	7	0.00	-23245.10	54.39	-346.59	0.00	9.24	25.13	354.42
21.50	4	SLE Q	21	7	0.00	-19596.30	79.06	-243.75	0.00	9.24	21.10	297.43
22.35	2	SLE R	21	7	85.00	-23022.00	298.06	736.42	0.00	9.24	34.30	452.36
22.35	4	SLE Q	21	7	85.00	-19373.20	262.82	480.34	0.00	9.24	27.20	362.06
23.00	2	SLE R	22	7	0.00	-18686.00	-223.03	-966.08	0.00	9.24	32.48	418.60
23.00	4	SLE Q	22	7	0.00	-16130.70	-154.09	-638.46	0.00	9.24	24.76	325.52
23.00	2	SLE R	22	7	0.00	-18686.00	-223.03	-966.08	0.00	9.24	32.48	418.60
23.00	4	SLE Q	22	7	0.00	-16130.70	-154.09	-638.46	0.00	9.24	24.76	325.52
24.00	2	SLE R	22	7	100.00	-18423.50	-280.15	-288.06	0.00	9.24	24.11	324.56
24.00	4	SLE Q	22	7	100.00	-15868.20	-279.84	-175.67	0.00	9.24	20.44	275.56
24.50	2	SLE R	23	7	0.00	-11660.80	31.23	-466.38	0.00	9.24	16.61	221.94
24.50	4	SLE Q	23	7	0.00	-9563.01	54.56	-332.84	0.00	9.24	13.44	179.73
24.50	2	SLE R	23	7	0.00	-11660.80	31.23	-466.38	0.00	9.24	16.61	221.94
24.50	4	SLE Q	23	7	0.00	-9563.01	54.56	-332.84	0.00	9.24	13.44	179.73
25.35	2	SLE R	23	7	85.00	-11437.70	325.73	864.12	3.08	6.16	28.04	342.19
25.35	4	SLE Q	23	7	85.00	-9339.88	290.22	566.88	1.54	7.70	20.89	257.99
26.00	2	SLE R	24	7	0.00	-6147.46	-278.60	-1309.90	4.62	4.62	39.63	572.90
26.00	4	SLE Q	24	7	0.00	-5350.94	-219.46	-880.38	4.62	4.62	26.85	300.45
26.00	2	SLE R	24	7	0.00	-6147.46	-278.60	-1309.90	4.62	4.62	39.63	572.90
26.00	4	SLE Q	24	7	0.00	-5350.94	-219.46	-880.38	4.62	4.62	26.85	300.45
27.00	2	SLE R	24	7	100.00	-5884.96	-306.78	-113.42	0.00	9.24	11.78	146.17
27.00	4	SLE Q	24	7	100.00	-5088.44	-284.25	-47.57	0.00	9.24	9.80	121.98

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>
26.00	4	SLE Q	24	7	0.00	-5350.94	-880.38	-219.46	39.00	104.01	0.50	14.00	150.63	1.54	79.86	300.45	0.09	0.02
26.00	3	SLE F	24	7	0.00	-5552.18	-998.61	-237.65	39.00	104.01	0.50	14.00	159.10	1.54	89.17	375.83	0.11	0.03
26.00	4	SLE Q	24	7	0.00	-5350.94	-880.38	-219.46	39.00	104.01	0.50	14.00	150.63	1.54	79.86	300.45	0.09	0.02
26.00	3	SLE F	24	7	0.00	-5552.18	-998.61	-237.65	39.00	104.01	0.50	14.00	159.10	1.54	89.17	375.83	0.11	0.03

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>
0.00	1.35	ø8/20	2	2	---	1	SLU	0.50	0.35	705.96	2.50	12369.40	---	32873.20	12369.40	0.40	0.45	944.11	2.50	15893.50	---	33791.00	15893.50
2.00	3.00	ø8/20	2	2	---	1	SLU	0.50	0.35	1236.99	2.50	12369.40	---	32873.20	12369.40	0.40	0.45	1811.28	2.50	15893.50	---	33791.00	15893.50
3.50	4.35	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	2839.24	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	6970.00	2.50	0.00	44432.50	82434.00	39989.30
5.00	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	350.08	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	2205.93	2.50	0.00	44432.50	82434.00	39989.30
6.50	7.35	ø6/15	2	2	---	1	SLU	0.35	0.35	48.67	1.06	3949.58	---	3949.58	3949.58	0.40	0.30	4889.18	1.20	3815.36	---	3815.36	3815.36
8.00	9.00	ø6/15	2	2	---	1	SLU	0.35	0.35	355.64	2.03	7535.43	---	7535.43	7535.43	0.40	0.30	2041.98	2.20	7012.10	---	7012.10	7012.10
9.50	10.35	ø6/15	2	2	---	1	SLU	0.35	0.35	22.80	2.50	9277.05	---	9894.56	9277.05	0.40	0.30	3416.70	2.50	7955.54	---	9697.23	7955.54
11.00	12.00	ø6/15	2	2	---	1	SLU	0.35	0.35	341.62	2.50	9277.05	---	13313.50	9277.05	0.40	0.30	1908.77	2.50	7955.54	---	13048.00	7955.54
12.50	13.35	ø6/15	2	2	---	1	SLU	0.35	0.35	86.37	2.50	9277.05	---	16643.20	9277.05	0.40	0.30	3046.58	2.50	7955.54	---	16311.30	7955.54
14.00	15.00	ø6/15	2	2	---	1	SLU	0.35	0.35	65.53	2.50	9277.05	---	19771.80	9277.05	0.40	0.30	1687.59	2.50	7955.54	---	19377.40	7955.54
15.50	16.35	ø6/15	2	2	---	1	SLU	0.35	0.25	379.79	2.50	6634.02	---	11091.80	6634.02	0.30	0.30	2457.75	2.50	7955.54	---	11401.20	7955.54
17.00	18.00	ø6/15	2	2	---	1	SLU	0.35	0.25	114.82	2.50	6634.02	---	13653.80	6634.02	0.30	0.30	1428.53	2.50	7955.54	---	14034.60	7955.54
18.50	19.35	ø6/15	2	2	---	1	SLU	0.35	0.25	366.61	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	2033.03	2.50	7955.54	---	16914.20	7955.54
20.00	21.00	ø6/15	2	2	---	1	SLU	0.35	0.25	17.35	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1228.21	2.50	7955.54	---	16914.20	7955.54
21.50	22.35	ø6/15	2	2	---	1	SLU	0.35	0.25	400.56	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	1832.71	2.50	7955.54	---	16914.20	7955.54
23.00	24.00	ø6/15	2	2	---	1	SLU	0.35	0.25	77.26	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	961.08	2.50	7955.54	---	16914.20	7955.54
24.50	25.35	ø6/15	2	2	---	1	SLU	0.35	0.25	480.39	2.50	6634.02	---	15292.70	6634.02	0.30	0.30	2272.35	2.50	7955.54	---	15719.20	7955.54
26.00	27.00	ø6/15	2	2	---	1	SLU	0.35	0.25	40.02	2.50	6634.02	---	14270.10	6634.02	0.30	0.30	1718.17	2.50	7955.54	---	14668.10	7955.54

Pilastrata n. 39

Nodi: 39 339 539 739 939 1139 1339 1539 1739 1939

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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm>	Fcd <daN/cm>	Fyk <daN/cm>	Fyd <daN/cm>
60.00	70.00	249.00	141.10	4500.00	3913.04
60.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione con rinforzi

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>	esp.	Sic.	Δ%
0.00	1(e)	SLU	1	1	0.00	-160840.00	633.16	3216.79	-358.73	-3216.79	-784267.00	75023.10	-62856.50	1.09	4.876	134.93
0.00	1(e)	SLU	1	1	0.00	-160840.00	633.16	3216.79	-358.73	-3216.79	-784267.00	75023.10	-62856.50	1.09	4.876	134.93
3.00	1(e)	SLU	1	1	300.00	-156745.00	91.81	3134.90	569.61	3134.90	-784267.00	74615.80	-62517.10	1.08	5.003	134.93
3.50	1(e)	SLU	2	10	0.00	-139702.00	63.72	2794.03	-670.52	-2794.03	-657277.00	50888.10	-56514.60	1.09	4.705	166.19
3.50	1(e)	SLU	2	10	0.00	-139702.00	63.72	2794.03	-670.52	-2794.03	-646245.00	50733.30	-55057.60	1.10	4.626	173.96

Relazione di calcolo

6.00	1(e)	SLU	2	10	250.00	-137020.00	-43.72	-2740.41	583.24	2740.41	-646245.00	-50616.80	54947.50	1.09	4.716	173.96	
6.50	1(e)	SLU	3	10	0.00	-120462.00	46.72	2409.23	-315.54	-2409.23	-235892.00	11728.00	-12488.00	1.34	1.958	---	
6.50	1(e)	SLU	3	10	0.00	-120462.00	46.72	2409.23	-315.54	-2409.23	-235892.00	11728.00	-12488.00	1.34	1.958	---	
9.00	1(e)	SLU	3	10	250.00	-119324.00	-84.88	-2386.48	381.21	2386.48	-235892.00	-11788.20	12540.30	1.34	1.977	---	
9.50	1(e)	SLU	4	10	0.00	-102924.00	118.31	2058.47	-559.00	-2058.47	-235892.00	12569.70	-13179.30	1.28	2.292	---	
9.50	1(e)	SLU	4	10	0.00	-102924.00	118.31	2058.47	-559.00	-2058.47	-235892.00	12569.70	-13179.30	1.28	2.292	---	
12.00	1(e)	SLU	4	10	250.00	-101786.00	-105.96	-2035.72	510.31	2035.72	-235892.00	-12618.50	13217.30	1.28	2.318	---	
12.50	1(e)	SLU	5	10	0.00	-85393.80	67.99	1707.88	-538.14	-1707.88	-235892.00	12746.00	-13066.00	1.22	2.762	---	
12.50	1(e)	SLU	5	10	0.00	-85393.80	67.99	1707.88	-538.14	-1707.88	-235892.00	12746.00	-13066.00	1.22	2.762	---	
15.00	1(e)	SLU	5	10	250.00	-84256.30	-85.62	-1685.13	522.91	1685.13	-235892.00	-12717.40	13039.40	1.21	2.800	---	
15.50	1(e)	SLU	6	7	0.00	-67931.80	62.41	1358.64	-250.21	-1358.64	-185194.00	10700.30	-7784.43	1.22	2.726	---	
15.50	1(e)	SLU	6	7	0.00	-67931.80	62.41	1358.64	-250.21	-1358.64	-174161.00	9277.16	-7806.31	1.24	2.564	---	
18.00	1(e)	SLU	6	7	250.00	-67078.60	-68.96	-1341.57	242.02	1341.57	-174161.00	-9263.75	7795.36	1.24	2.596	---	
18.50	1(e)	SLU	7	7	0.00	-50697.20	61.10	1013.94	-250.97	-1013.94	-174161.00	8678.57	-7293.71	1.16	3.435	---	
18.50	1(e)	SLU	7	7	0.00	-50697.20	61.10	1013.94	-250.97	-1013.94	-174161.00	8678.57	-7293.71	1.16	3.435	---	
21.00	1(e)	SLU	7	7	250.00	-49844.10	-59.30	-996.88	223.89	996.88	-174161.00	-8631.10	7252.79	1.16	3.494	---	
21.50	1(e)	SLU	8	7	0.00	-33528.60	48.83	670.57	-220.56	-670.57	-174161.00	7383.86	-6161.41	1.08	5.194	---	
21.50	1(e)	SLU	8	7	0.00	-33528.60	48.83	670.57	-220.56	-670.57	-174161.00	7383.86	-6161.41	1.08	5.194	---	
24.00	1(e)	SLU	8	7	250.00	-32675.50	-44.89	-653.51	194.94	653.51	-174161.00	-7301.80	6088.60	1.07	5.330	---	
24.50	1(e)	SLU	9	7	0.00	-16412.90	75.08	-328.26	-259.74	-328.26	-16415.90	-5404.61	-4523.19	1.00	7.501	---	
24.50	1(e)	SLU	9	7	0.00	-16412.90	75.08	-328.26	-259.74	-328.26	-16415.90	-5404.61	-4523.19	1.00	7.501	---	
27.00	1(e)	SLU	9	7	250.00	-15559.80	-35.99	-311.20	246.44	311.20	-15560.10	-5296.67	4434.07	1.00	7.756	---	

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	-114656.00	-253.29	455.70	0.00	50.01	24.40	363.31
0.00	4	SLE Q	1	1	0.00	-101810.00	-204.60	367.62	0.00	50.01	21.57	321.32
0.00	2	SLE R	1	1	0.00	-114656.00	-253.29	455.70	0.00	50.01	24.40	363.31
0.00	4	SLE Q	1	1	0.00	-101810.00	-204.60	367.62	0.00	50.01	21.57	321.32
3.00	2	SLE R	1	1	300.00	-111506.00	402.08	66.07	0.00	50.01	23.42	349.13
3.00	4	SLE Q	1	1	300.00	-98660.30	328.34	51.17	0.00	50.01	20.65	308.08
3.50	2	SLE R	2	10	0.00	-99419.70	-477.21	45.21	0.00	50.01	25.79	383.82
3.50	4	SLE Q	2	10	0.00	-87887.00	-352.99	33.15	0.00	50.01	22.62	337.03
3.50	2	SLE R	2	10	0.00	-99419.70	-477.21	45.21	0.00	46.94	26.08	388.19
3.50	4	SLE Q	2	10	0.00	-87887.00	-352.99	33.15	0.00	46.94	22.87	340.88
6.00	2	SLE R	2	10	250.00	-97357.20	413.13	-30.87	0.00	46.94	25.38	378.08
6.00	4	SLE Q	2	10	250.00	-85824.50	285.32	-23.68	0.00	46.94	22.17	330.82
6.50	2	SLE R	3	10	0.00	-85625.10	-221.65	32.14	0.00	9.24	58.12	863.10
6.50	4	SLE Q	3	10	0.00	-75400.80	-160.65	23.88	0.00	9.24	50.80	755.69
6.50	2	SLE R	3	10	0.00	-85625.10	-221.65	32.14	0.00	9.24	58.12	863.10
6.50	4	SLE Q	3	10	0.00	-75400.80	-160.65	23.88	0.00	9.24	50.80	755.69
9.00	2	SLE R	3	10	250.00	-84750.10	268.02	-58.88	0.00	9.24	58.28	862.82
9.00	4	SLE Q	3	10	250.00	-74525.80	191.29	-42.49	0.00	9.24	50.72	752.73
9.50	2	SLE R	4	10	0.00	-73151.60	-393.32	82.34	0.00	9.24	52.19	766.35
9.50	4	SLE Q	4	10	0.00	-64275.00	-281.36	60.73	0.00	9.24	45.11	664.89
9.50	2	SLE R	4	10	0.00	-73151.60	-393.32	82.34	0.00	9.24	52.19	766.35
9.50	4	SLE Q	4	10	0.00	-64275.00	-281.36	60.73	0.00	9.24	45.11	664.89
12.00	2	SLE R	4	10	250.00	-72276.60	358.63	-73.51	0.00	9.24	51.19	752.95
12.00	4	SLE Q	4	10	250.00	-63400.00	250.94	-55.03	0.00	9.24	44.19	652.32
12.50	2	SLE R	5	10	0.00	-60682.30	-380.53	47.21	0.00	9.24	43.59	639.27
12.50	4	SLE Q	5	10	0.00	-53168.50	-242.91	30.71	0.00	9.24	37.21	548.85
12.50	2	SLE R	5	10	0.00	-60682.30	-380.53	47.21	0.00	9.24	43.59	639.27
12.50	4	SLE Q	5	10	0.00	-53168.50	-242.91	30.71	0.00	9.24	37.21	548.85
15.00	2	SLE R	5	10	250.00	-59807.30	369.38	-59.22	0.00	9.24	43.04	630.90
15.00	4	SLE Q	5	10	250.00	-52293.50	234.04	-42.09	0.00	9.24	36.68	540.66
15.50	2	SLE R	6	7	0.00	-48262.40	-176.75	42.90	0.00	9.24	44.17	646.54
15.50	4	SLE Q	6	7	0.00	-42108.10	-103.79	27.90	0.00	9.24	37.56	553.81
15.50	2	SLE R	6	7	0.00	-48262.40	-176.75	42.90	0.00	6.16	45.85	671.56
15.50	4	SLE Q	6	7	0.00	-42108.10	-103.79	27.90	0.00	6.16	39.01	575.56
18.00	2	SLE R	6	7	250.00	-47606.20	170.88	-47.51	0.00	6.16	45.24	662.64
18.00	4	SLE Q	6	7	250.00	-41451.80	98.38	-32.00	0.00	6.16	38.41	566.64
18.50	2	SLE R	7	7	0.00	-36026.60	-176.90	41.63	0.00	6.16	35.12	510.73
18.50	4	SLE Q	7	7	0.00	-31245.70	-93.89	25.30	0.00	6.16	29.30	430.78
18.50	2	SLE R	7	7	0.00	-36026.60	-176.90	41.63	0.00	6.16	35.12	510.73
18.50	4	SLE Q	7	7	0.00	-31245.70	-93.89	25.30	0.00	6.16	29.30	430.78
21.00	2	SLE R	7	7	250.00	-35370.30	157.69	-40.41	0.00	6.16	34.20	498.54
21.00	4	SLE Q	7	7	250.00	-30589.40	80.48	-24.75	0.00	6.16	28.49	419.72
21.50	2	SLE R	8	7	0.00	-23835.90	-154.82	33.13	0.00	6.16	23.96	345.43
21.50	4	SLE Q	8	7	0.00	-20423.10	-71.60	19.41	0.00	6.16	19.37	283.82
21.50	2	SLE R	8	7	0.00	-23835.90	-154.82	33.13	0.00	6.16	23.96	345.43
21.50	4	SLE Q	8	7	0.00	-20423.10	-71.60	19.41	0.00	6.16	19.37	283.82
24.00	2	SLE R	8	7	250.00	-23179.60	136.76	-30.86	0.00	6.16	23.04	333.28
24.00	4	SLE Q	8	7	250.00	-19766.80	60.72	-19.50	0.00	6.16	18.61	273.31
24.50	2	SLE R	9	7	0.00	-11681.30	-182.05	50.27	0.00	6.16	14.02	193.32
24.50	4	SLE Q	9	7	0.00	-9631.80	-86.46	28.72	0.00	6.16	10.30	146.21
24.50	2	SLE R	9	7	0.00	-11681.30	-182.05	50.27	0.00	6.16	14.02	193.32
24.50	4	SLE Q	9	7	0.00	-9631.80	-86.46	28.72	0.00	6.16	10.30	146.21
27.00	2	SLE R	9	7	250.00	-11025.00	172.64	-21.95	0.00	6.16	12.88	178.58
27.00	4	SLE Q	9	7	250.00	-8975.55	79.14	-5.65	0.00	6.16	9.28	132.66

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <m>	d _y <m>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <m>	d _z <m>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Si
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Relazione di calcolo

0.00	0.54	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	309.44	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	180.45	2.50	0.00	57709.10	107066.00	51938.20	>10
0.54	2.72	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	309.44	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	180.45	2.50	0.00	57709.10	107066.00	51938.20	>10
2.72	3.00	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	309.44	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	180.45	2.50	0.00	57709.10	107066.00	51938.20	>10
3.50	3.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	501.51	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	42.98	2.50	0.00	44432.50	82434.00	39989.30	87.
3.96	5.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	501.51	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	42.98	2.50	0.00	44432.50	82434.00	39989.30	87.
5.80	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	501.51	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	42.98	2.50	0.00	44432.50	82434.00	39989.30	87.
6.50	6.96	ø6/15	2	2	---	1	SLU	0.35	0.35	278.70	1.71	6341.20	---	6341.20	6341.20	0.40	0.30	52.64	1.87	5936.47	---	5936.47	5936.47	22.
6.96	8.80	ø6/15	2	2	---	1	SLU	0.35	0.35	278.70	1.73	6401.37	---	6401.37	6401.37	0.40	0.30	52.64	1.88	5990.50	---	5990.50	5990.50	22.
8.80	9.00	ø6/15	2	2	---	1	SLU	0.35	0.35	278.70	1.79	6636.60	---	6636.60	6636.60	0.40	0.30	52.64	1.95	6201.91	---	6201.91	6201.91	23.
9.50	9.96	ø6/15	2	2	---	1	SLU	0.35	0.35	427.72	2.50	9277.05	---	10986.20	9277.05	0.40	0.30	89.71	2.50	7955.54	---	10767.10	7955.54	21.
9.96	11.80	ø6/15	2	2	---	1	SLU	0.35	0.35	427.72	2.50	9277.05	---	11057.40	9277.05	0.40	0.30	89.71	2.50	7955.54	---	10836.90	7955.54	21.
11.80	12.00	ø6/15	2	2	---	1	SLU	0.35	0.35	427.72	2.50	9277.05	---	11342.40	9277.05	0.40	0.30	89.71	2.50	7955.54	---	11116.20	7955.54	21.
12.50	12.96	ø6/15	2	2	---	1	SLU	0.35	0.35	424.42	2.50	9277.05	---	16953.50	9277.05	0.40	0.30	61.44	2.50	7955.54	---	16615.40	7955.54	21.
12.96	14.80	ø6/15	2	2	---	1	SLU	0.35	0.35	424.42	2.50	9277.05	---	17024.80	9277.05	0.40	0.30	61.44	2.50	7955.54	---	16685.30	7955.54	21.
14.80	15.00	ø6/15	2	2	---	1	SLU	0.35	0.35	424.42	2.50	9277.05	---	17309.80	9277.05	0.40	0.30	61.44	2.50	7955.54	---	16964.60	7955.54	21.
15.50	15.96	ø6/15	2	2	---	1	SLU	0.35	0.25	196.89	2.50	6634.02	---	10862.10	6634.02	0.30	0.30	52.55	2.50	7955.54	---	11165.00	7955.54	33.
15.96	17.80	ø6/15	2	2	---	1	SLU	0.35	0.25	196.89	2.50	6634.02	---	10913.00	6634.02	0.30	0.30	52.55	2.50	7955.54	---	11217.40	7955.54	33.
17.80	18.00	ø6/15	2	2	---	1	SLU	0.35	0.25	196.89	2.50	6634.02	---	11116.80	6634.02	0.30	0.30	52.55	2.50	7955.54	---	11426.90	7955.54	33.
18.50	18.96	ø6/15	2	2	---	1	SLU	0.35	0.25	189.94	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	48.16	2.50	7955.54	---	16914.20	7955.54	34.
18.96	20.80	ø6/15	2	2	---	1	SLU	0.35	0.25	189.94	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	48.16	2.50	7955.54	---	16914.20	7955.54	34.
20.80	21.00	ø6/15	2	2	---	1	SLU	0.35	0.25	189.94	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	48.16	2.50	7955.54	---	16914.20	7955.54	34.
21.50	21.96	ø6/15	2	2	---	1	SLU	0.35	0.25	166.20	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	37.49	2.50	7955.54	---	16914.20	7955.54	39.
21.96	23.80	ø6/15	2	2	---	1	SLU	0.35	0.25	166.20	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	37.49	2.50	7955.54	---	16914.20	7955.54	39.
23.80	24.00	ø6/15	2	2	---	1	SLU	0.35	0.25	166.20	2.50	6634.02	---	16455.30	6634.02	0.30	0.30	37.49	2.50	7955.54	---	16914.20	7955.54	39.
24.50	24.96	ø6/15	2	2	---	1	SLU	0.35	0.25	202.47	2.50	6634.02	---	15295.10	6634.02	0.30	0.30	44.43	2.50	7955.54	---	15721.70	7955.54	32.
24.96	26.80	ø6/15	2	2	---	1	SLU	0.35	0.25	202.47	2.50	6634.02	---	15274.70	6634.02	0.30	0.30	44.43	2.50	7955.54	---	15700.70	7955.54	32.
26.80	27.00	ø6/15	2	2	---	1	SLU	0.35	0.25	202.47	2.50	6634.02	---	15193.20	6634.02	0.30	0.30	44.43	2.50	7955.54	---	15616.90	7955.54	32.

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>
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

Caratteristiche incamiciatura e materiali utilizzati

B <cm>	H <cm>	Fck <daN/cm²>	Fcd <daN/cm²>	Fyk <daN/cm²>	Fyd <daN/cm²>
60.00	70.00	249.00	141.10	4500.00	3913.04
60.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione con rinforzi

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>	esp.	Sic.	Δ%
0.00	1(e)	SLU	1	1	0.00	-156121.00	622.89	3122.41	-19.12	-3122.41	-784267.00	74552.60	-62464.70	1.08	5.023	134.93
0.00	1(e)	SLU	1	1	0.00	-156121.00	622.89	3122.41	-19.12	-3122.41	-784267.00	74552.60	-62464.70	1.08	5.023	134.93
3.00	1(e)	SLU	1	1	300.00	-152026.00	126.58	3040.51	-19.77	-3040.51	-784267.00	74137.20	-62119.00	1.08	5.159	134.93
3.50	1(e)	SLU	2	10	0.00	-135923.00	21.18	2718.47	-85.25	-2718.47	-657277.00	50740.20	-56352.10	1.09	4.836	166.19
3.50	1(e)	SLU	2	10	0.00	-135923.00	21.18	2718.47	-85.25	-2718.47	-646245.00	50568.80	-54902.20	1.09	4.754	173.96
6.00	1(e)	SLU	2	10	250.00	-133242.00	11.96	2664.84	208.43	2664.84	-646245.00	50450.20	-54790.20	1.09	4.850	173.96
6.50	1(e)	SLU	3	10	0.00	-117317.00	-26.99	-2346.34	-57.90	-2346.34	-235892.00	-11892.10	-12628.60	1.33	2.011	---
6.50	1(e)	SLU	3	10	0.00	-117317.00	-26.99	-2346.34	-57.90	-2346.34	-235892.00	-11892.10	-12628.60	1.33	2.011	---
9.00	1(e)	SLU	3	10	250.00	-116179.00	47.15	2323.59	-1.42	-2323.59	-235892.00	11950.10	-12677.90	1.33	2.030	---
9.50	1(e)	SLU	4	10	0.00	-99766.90	-28.85	-1995.34	-78.83	-1995.34	-235892.00	-12704.40	-13258.20	1.27	2.364	---
9.50	1(e)	SLU	4	10	0.00	-99766.90	-28.85	-1995.34	-78.83	-1995.34	-235892.00	-12704.40	-13258.20	1.27	2.364	---
12.00	1(e)	SLU	4	10	250.00	-98629.40	11.61	1972.59	113.54	1972.59	-235892.00	12751.80	13253.70	1.27	2.392	---
12.50	1(e)	SLU	5	10	0.00	-82314.20	-60.16	-1646.28	-159.22	-1646.28	-235892.00	-12664.40	-12990.70	1.21	2.866	---
12.50	1(e)	SLU	5	10	0.00	-82314.20	-60.16	-1646.28	-159.22	-1646.28	-235892.00	-12664.40	-12990.70	1.21	2.866	---
15.00	1(e)	SLU	5	10	250.00	-81176.70	26.67	1623.53	179.65	1623.53	-235892.00	12630.80	12960.40	1.20	2.906	---
15.50	1(e)	SLU	6	7	0.00	-64992.40	-36.63	-1299.85	-139.64	-1299.85	-185194.00	-10647.50	-7744.74	1.21	2.849	---
15.50	1(e)	SLU	6	7	0.00	-64992.40	-36.63	-1299.85	-139.64	-1299.85	-174161.00	-9224.35	-7761.73	1.23	2.680	---
18.00	1(e)	SLU	6	7	250.00	-64139.30	23.36	1282.79	173.19	1282.79	-174161.00	9206.13	7745.36	1.22	2.715	---
18.50	1(e)	SLU	7	7	0.00	-48412.90	-38.62	-968.26	-263.88	-968.26	-174161.00	-8547.19	-7180.87	1.15	3.597	---
18.50	1(e)	SLU	7	7	0.00	-48412.90	-38.62	-968.26	-263.88	-968.26	-174161.00	-8547.19	-7180.87	1.15	3.597	---
21.00	1(e)	SLU	7	7	250.00	-47559.80	26.61	951.20	274.64	951.20	-174161.00	8493.89	7135.46	1.14	3.662	---
21.50	1(e)	SLU	8	7	0.00	-32034.80	-38.79	-640.70	-356.27	-640.70	-174161.00	-7237.66	-6031.72	1.07	5.437	---
21.50	1(e)	SLU	8	7	0.00	-32034.80	-38.79	-640.70	-356.27	-640.70	-174161.00	-7237.66	-6031.72	1.07	5.437	---
24.00	1(e)	SLU	8	7	250.00	-31181.70	34.39	623.63	350.75	623.63	-174161.00	7145.46	5955.33	1.07	5.585	---
24.50	1(e)	SLU	9	7	0.00	-15823.80	-22.21	-316.48	-452.96	-452.96	-15826.90	-5330.04	-4461.88	1.00	6.215	---
24.50	1(e)	SLU	9	7	0.00	-15823.80	-22.21	-316.48	-452.96	-452.96	-15826.90	-5330.04	-4461.88	1.00	6.215	---
27.00	1(e)	SLU	9	7	250.00	-14970.60	87.26	-299.41	421.81	421.81	-14973.90	-5221.85	4372.99	1.00	6.502	---

Stato limite d'es

Relazione di calcolo

3.50	4	SLE Q	2	10	0.00	-86590.10	-15.65	7.55	0.00	46.94	21.68	325.10
6.00	2	SLE R	2	10	250.00	-94826.60	140.26	8.63	0.00	46.94	24.04	359.72
6.00	4	SLE Q	2	10	250.00	-84527.60	87.55	8.75	0.00	46.94	21.34	319.56
6.50	2	SLE R	3	10	0.00	-83537.00	-35.10	-21.42	0.00	9.24	54.86	820.83
6.50	4	SLE Q	3	10	0.00	-74429.90	-17.13	-20.06	0.00	9.24	48.75	729.89
6.50	2	SLE R	3	10	0.00	-83537.00	-35.10	-21.42	0.00	9.24	54.86	820.83
6.50	4	SLE Q	3	10	0.00	-74429.90	-17.13	-20.06	0.00	9.24	48.75	729.89
9.00	2	SLE R	3	10	250.00	-82662.00	-8.38	36.44	0.00	9.24	54.19	811.09
9.00	4	SLE Q	3	10	250.00	-73554.90	-26.08	37.58	0.00	9.24	48.45	724.39
9.50	2	SLE R	4	10	0.00	-71045.00	-44.21	-24.03	0.00	9.24	46.85	700.35
9.50	4	SLE Q	4	10	0.00	-63181.90	-10.78	-26.34	0.00	9.24	41.45	620.26
9.50	2	SLE R	4	10	0.00	-71045.00	-44.21	-24.03	0.00	9.24	46.85	700.35
9.50	4	SLE Q	4	10	0.00	-63181.90	-10.78	-26.34	0.00	9.24	41.45	620.26
12.00	2	SLE R	4	10	250.00	-70170.00	68.05	11.57	0.00	9.24	46.38	693.01
12.00	4	SLE Q	4	10	250.00	-62306.90	30.84	13.31	0.00	9.24	40.93	612.43
12.50	2	SLE R	5	10	0.00	-58616.30	-98.25	-44.66	0.00	9.24	39.51	587.57
12.50	4	SLE Q	5	10	0.00	-51992.30	-37.84	-44.65	0.00	9.24	34.63	516.29
12.50	2	SLE R	5	10	0.00	-58616.30	-98.25	-44.66	0.00	9.24	39.51	587.57
12.50	4	SLE Q	5	10	0.00	-51992.30	-37.84	-44.65	0.00	9.24	34.63	516.29
15.00	2	SLE R	5	10	250.00	-57741.30	111.68	21.82	0.00	9.24	38.83	577.86
15.00	4	SLE Q	5	10	250.00	-51117.30	49.51	23.23	0.00	9.24	33.94	506.56
15.50	2	SLE R	6	7	0.00	-46276.00	-89.63	-28.46	0.00	9.24	40.83	604.01
15.50	4	SLE Q	6	7	0.00	-40875.40	-50.22	-29.02	0.00	9.24	35.63	529.01
15.50	2	SLE R	6	7	0.00	-46276.00	-89.63	-28.46	0.00	6.16	42.43	627.88
15.50	4	SLE Q	6	7	0.00	-40875.40	-50.22	-29.02	0.00	6.16	37.04	550.13
18.00	2	SLE R	6	7	250.00	-45619.80	113.10	18.93	0.00	6.16	42.12	621.89
18.00	4	SLE Q	6	7	250.00	-40219.20	70.52	20.38	0.00	6.16	36.69	543.72
18.50	2	SLE R	7	7	0.00	-34480.10	-175.06	-30.28	0.00	6.16	33.57	488.30
18.50	4	SLE Q	7	7	0.00	-30256.20	-118.61	-31.15	0.00	6.16	28.94	423.05
18.50	2	SLE R	7	7	0.00	-34480.10	-175.06	-30.28	0.00	6.16	33.57	488.30
18.50	4	SLE Q	7	7	0.00	-30256.20	-118.61	-31.15	0.00	6.16	28.94	423.05
21.00	2	SLE R	7	7	250.00	-33823.90	183.23	21.75	0.00	6.16	33.02	479.77
21.00	4	SLE Q	7	7	250.00	-29600.00	127.21	24.10	0.00	6.16	28.41	414.83
21.50	2	SLE R	8	7	0.00	-22826.40	-239.10	-29.59	0.00	6.16	24.45	346.43
21.50	4	SLE Q	8	7	0.00	-19763.20	-169.43	-28.26	0.00	6.16	20.57	293.75
21.50	2	SLE R	8	7	0.00	-22826.40	-239.10	-29.59	0.00	6.16	24.45	346.43
21.50	4	SLE Q	8	7	0.00	-19763.20	-169.43	-28.26	0.00	6.16	20.57	293.75
24.00	2	SLE R	8	7	250.00	-22170.20	235.96	25.13	0.00	6.16	23.75	336.56
24.00	4	SLE Q	8	7	250.00	-19106.90	168.10	21.56	0.00	6.16	19.88	283.84
24.50	2	SLE R	9	7	0.00	-11290.60	-306.03	-20.43	0.00	6.16	15.35	205.28
24.50	4	SLE Q	9	7	0.00	-9366.45	-227.38	-27.32	0.00	6.16	12.43	167.27
24.50	2	SLE R	9	7	0.00	-11290.60	-306.03	-20.43	0.00	6.16	15.35	205.28
24.50	4	SLE Q	9	7	0.00	-9366.45	-227.38	-27.32	0.00	6.16	12.43	167.27
27.00	2	SLE R	9	7	250.00	-10634.30	284.56	68.66	0.00	6.16	15.10	200.50
27.00	4	SLE Q	9	7	250.00	-8710.20	215.10	69.94	0.00	6.16	12.26	163.23

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRsdCam _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRsdCam _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Si
0.00	0.54	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	0.22	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	165.44	2.50	0.00	57709.10	107066.00	51938.20	>100
0.54	2.72	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	0.22	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	165.44	2.50	0.00	57709.10	107066.00	51938.20	>100
2.72	3.00	ø8/20	2	2	ø8/10	1	SLU	0.70	0.55	0.22	2.50	0.00	48858.10	105752.00	43972.30	0.60	0.65	165.44	2.50	0.00	57709.10	107066.00	51938.20	>100
3.50	3.96	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	117.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3.69	2.50	0.00	44432.50	82434.00	39989.30	>100
3.96	5.80	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	117.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3.69	2.50	0.00	44432.50	82434.00	39989.30	>100
5.80	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.55	117.47	2.50	0.00	48858.10	83090.90	43972.30	0.60	0.50	3.69	2.50	0.00	44432.50	82434.00	39989.30	>100
6.50	6.96	ø6/15	2	2	---	1	SLU	0.35	0.35	22.59	1.94	7192.39	---	---	---	7192.39	7192.39	0.40	0.30	29.66	2.11	6702.50	---	>100
6.96	8.80	ø6/15	2	2	---	1	SLU	0.35	0.35	22.59	1.95	7245.50	---	---	---	7245.50	7245.50	0.40	0.30	29.66	2.12	6750.40	---	>100
8.80	9.00	ø6/15	2	2	---	1	SLU	0.35	0.35	22.59	2.01	7454.13	---	---	---	7454.13	7454.13	0.40	0.30	29.66	2.18	6938.69	---	>100
9.50	9.96	ø6/15	2	2	---	1	SLU	0.35	0.35	76.95	2.50	9277.05	---	---	---	12060.80	9277.05	0.40	0.30	16.18	2.50	7955.54	---	>100
9.96	11.80	ø6/15	2	2	---	1	SLU	0.35	0.35	76.95	2.50	9277.05	---	---	---	12132.10	9277.05	0.40	0.30	16.18	2.50	7955.54	---	>100
11.80	12.00	ø6/15	2	2	---	1	SLU	0.35	0.35	76.95	2.50	9277.05	---	---	---	12417.00	9277.05	0.40	0.30	16.18	2.50	7955.54	---	>100
12.50	12.96	ø6/15	2	2	---	1	SLU	0.35	0.35	135.55	2.50	9277.05	---	---	---	18001.90	9277.05	0.40	0.30	34.73	2.50	7955.54	---	>100
12.96	14.80	ø6/15	2	2	---	1	SLU	0.35	0.35	135.55	2.50	9277.05	---	---	---	18073.10	9277.05	0.40	0.30	34.73	2.50	7955.54	---	>100
14.80	15.00	ø6/15	2	2	---	1	SLU	0.35	0.35	135.55	2.50	9277.05	---	---	---	18358.10	9277.05	0.40	0.30	34.73	2.50	7955.54	---	>100
15.50	15.96	ø6/15	2	2	---	1	SLU	0.35	0.25	125.13	2.50	6634.02	---	---	---	11816.10	6634.02	0.30	0.30	24.00	2.50	7955.54	---	>100
15.96	17.80	ø6/15	2	2	---	1	SLU	0.35	0.25	125.13	2.50	6634.02	---	---	---	11867.10	6634.02	0.30	0.30	24.00	2.50	7955.54	---	>100
17.80	18.00	ø6/15	2	2	---	1	SLU	0.35	0.25	125.13	2.50	6634.02	---	---	---	12070.80	6634.02	0.30	0.30	24.00	2.50	7955.54	---	>100
18.50	18.96	ø6/15	2	2	---	1	SLU	0.35	0.25	215.41	2.50	6634.02	---	---	---	16455.30	6634.02	0.30	0.30	26.09	2.50	7955.54	---	>100
18.96	20.80	ø6/15	2	2	---	1	SLU	0.35	0.25	215.41	2.50	6634.02	---	---	---	16455.30	6634.02	0.30	0.30	26.09	2.50	7955.54	---	>100
20.80	21.00	ø6/15	2	2	---	1	SLU	0.35	0.25	215.41	2.50	6634.02	---	---	---	16455.30	6634.02	0.30	0.30	26.09	2.50	7955.54	---	>100
21.50	21.96	ø6/15	2	2	---	1	SLU	0.35	0.25	282.81	2.50	6634.02	---	---	---	16455.30	6634.02	0.30	0.30	29.27	2.50	7955.54	---	>100
21.96	23.80	ø6/15	2	2	---	1	SLU	0.35	0.25	282.81	2.50	6634.02	---	---	---	16455.30	6634.02	0.30	0.30	29.27	2.50	7955.54	---	>100
23.80	24.00	ø6/15	2	2	---	1	SLU	0.35	0.25	282.81	2.50	6634.02	---	---	---	16455.30	6634.02	0.30	0.30	29.27	2.50	7955.54	---	>100
24.50	24.96	ø6/15	2	2	---	1	SLU	0.35	0.25	349.91	2.50	6634.02	---	---	---	15218.60	6634.02	0.30	0.30	43.79	2.50	7955.54	---	>100
24.96	26.80	ø6/15	2	2	---	1	SLU	0.35	0.25	349.91	2.50	6634.02	---	---	---	15198.20	6634.02	0.30	0.30	43.79	2.50	7955.54	---	>100
26.80	27.00	ø6/15	2	2	---	1	SLU	0.35	0.25	349.91	2.50	6634.02	---	---	---	15116.70	6634.02	0.30	0.30	43.79	2.50	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>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym
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Relazione di calcolo

9	R	25.00	35.00	4.30	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94
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Caratteristiche incamiciatura e materiali utilizzati

B	H	Fck	Fcd	Fyk	Fyd
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
45.00	70.00	249.00	141.10	4500.00	3913.04
45.00	55.00	249.00	141.10	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione con rinforzi

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdz	esp.	Sic.	Δ%	
					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>				
0.00	1	(e)	SLU	1	59	0.00	-84265.80	225.02	1685.32	-744.26	-1685.32	-636112.00	61999.50	-36727.20	1.03	7.549	182.47
0.00	1	(e)	SLU	1	59	0.00	-84265.80	225.02	1685.32	-744.26	-1685.32	-636112.00	61999.50	-36727.20	1.03	7.549	182.47
3.00	1	(e)	SLU	1	59	300.00	-81194.60	522.77	1623.89	1202.10	1623.89	-636112.00	61664.50	36537.10	1.02	7.834	182.47
3.50	1	(e)	SLU	2	9	0.00	-72281.60	-521.30	-1445.63	-2254.83	-2254.83	-540870.00	-43098.70	-33688.10	1.03	7.483	289.45
3.50	1	(e)	SLU	2	9	0.00	-72281.60	-521.30	-1445.63	-2254.83	-2254.83	-529837.00	-41908.60	-33306.90	1.03	7.330	298.41
6.00	1	(e)	SLU	2	9	250.00	-70270.70	528.64	1405.41	2103.31	2103.31	-529837.00	41761.50	33171.70	1.03	7.540	276.39
12.50	1	(e)	SLU	5	9	0.00	-44398.90	-336.69	-887.98	-804.62	-887.98	-159844.00	-7920.42	-6166.18	1.15	3.600	---
12.50	1	(e)	SLU	5	9	0.00	-44398.90	-336.69	-887.98	-804.62	-887.98	-159844.00	-7920.42	-6166.18	1.15	3.600	---
15.00	1	(e)	SLU	5	9	250.00	-43688.00	245.32	873.76	639.07	873.76	-159844.00	7900.52	6140.80	1.14	3.659	---
15.50	1	(e)	SLU	6	9	0.00	-35715.90	-326.21	-714.32	-871.70	-871.70	-159844.00	-7645.69	-5770.56	1.10	4.475	---
15.50	1	(e)	SLU	6	9	0.00	-35715.90	-326.21	-714.32	-871.70	-871.70	-148812.00	-7286.64	-4903.07	1.12	4.167	---
18.00	1	(e)	SLU	6	9	250.00	-35005.00	242.21	700.10	721.40	721.40	-148812.00	7233.15	4861.14	1.11	4.251	---
18.50	1	(e)	SLU	7	9	0.00	-26809.30	-321.28	-536.19	-995.38	-995.38	-26811.00	-6518.01	-4333.08	1.07	3.599	---
18.50	1	(e)	SLU	7	9	0.00	-26809.30	-321.28	-536.19	-995.38	-995.38	-26811.00	-6518.01	-4333.08	1.07	3.599	---
21.00	1	(e)	SLU	7	9	250.00	-26098.40	243.68	-521.97	806.30	806.30	-26103.40	-6440.82	4282.94	1.06	4.189	---
21.50	1	(e)	SLU	8	9	0.00	-17722.10	-311.70	-354.44	-1078.65	-1078.65	-17724.20	-5473.85	-3662.89	1.02	2.851	---
21.50	1	(e)	SLU	8	9	0.00	-17722.10	-311.70	-354.44	-1078.65	-1078.65	-17724.20	-5473.85	-3662.89	1.02	2.851	---
24.00	1	(e)	SLU	8	9	250.00	-17011.10	235.09	-340.22	856.98	856.98	-17013.80	-5387.55	3608.31	1.01	3.395	---
24.50	1	(e)	SLU	9	9	0.00	-8473.03	-322.73	-322.73	-1204.72	-1204.72	-8476.02	-4311.98	-2921.65	1.00	2.053	---
24.50	1	(e)	SLU	9	9	0.00	-8473.03	-322.73	-322.73	-1204.72	-1204.72	-8476.02	-4311.98	-2921.65	1.00	2.053	---
27.00	1	(e)	SLU	9	9	250.00	-7762.09	355.59	355.59	993.27	993.27	-7766.40	4220.23	2862.95	1.00	2.319	---

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	26.94	70.97	---	1	3.50	26.94	70.97	---	1	3.50	26.94	70.97	---	2	3.00	23.09	67.77
---	2	3.00	23.09	67.77	---	2	3.00	23.09	67.77	---	3	3.00	41.57	36.01	---	3	3.00	41.57	36.01
---	3	3.00	41.57	36.01	---	4	3.00	41.57	38.80	---	4	3.00	41.57	38.80	---	4	3.00	41.57	38.80

Stato limite ultimo - Verifiche a flessione/presoflessione - Controlli di stabilità con rinforzi

Xg	CC	TCC	El	Sez.	X	N	My	My ver.	Mz	Mz ver.	Nu	MRdy	MRdy,s	MRdz	MRdz,s	esp.	Sic.	Δ%	
<m>					<cm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	<daNm>	<daNm>				
6.50	1	(e)	SLU	3	9	0.00	-61451.00	-211.26	-1229.02	-506.01	-1229.02	-159844.00	-8228.44	-7282.76	-6259.95	-4911.13	1.24	2.601	---
6.50	1	(e)	SLU	3	9	0.00	-61451.00	-211.26	-1229.02	-506.01	-1229.02	-159844.00	-8228.44	-7282.76	-6259.95	-4911.13	1.24	2.601	---
9.00	1	(e)	SLU	3	9	250.00	-60740.10	256.42	1214.80	509.00	1214.80	-159844.00	8223.77	7292.56	6282.32	4939.77	1.23	2.632	---
9.50	1	(e)	SLU	4	9	0.00	-52988.60	-348.71	-1059.77	-783.72	-1059.77	-159844.00	-8121.81	-7312.87	-6391.58	-5218.57	1.19	3.017	---
9.50	1	(e)	SLU	4	9	0.00	-52988.60	-348.71	-1059.77	-783.72	-1059.77	-159844.00	-8121.81	-7312.87	-6391.58	-5218.57	1.19	3.017	---
12.00	1	(e)	SLU	4	9	250.00	-52277.60	245.06	1045.55	619.28	1045.55	-159844.00	8108.79	7306.17	6379.42	5231.90	1.19	3.058	---

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	59	0.00	-60725.70	-523.83	148.65	0.00	50.01	17.65	258.46
0.00	4	SLE	Q	1	59	0.00	-55266.00	-461.54	77.81	0.00	50.01	15.89	233.09
0.00	2	SLE	R	1	59	0.00	-60725.70	-523.83	148.65	0.00	50.01	17.65	258.46
0.00	4	SLE	Q	1	59	0.00	-55266.00	-461.54	77.81	0.00	50.01	15.89	233.09
3.00	2	SLE	R	1	59	300.00	-58363.20	845.98	399.26	0.00	50.01	18.65	268.93
3.00	4	SLE	Q	1	59	300.00	-52903.50	747.93	385.29	0.00	50.01	16.89	243.63
3.50	2	SLE	R	2	9	0.00	-51973.20	-1587.69	-401.14	0.00	50.01	23.91	334.49
3.50	4	SLE	Q	2	9	0.00	-47094.80	-1396.30	-408.07	0.00	50.01	21.64	302.83
3.50	2	SLE	R	2	9	0.00	-51973.20	-1587.69	-401.14	0.00	46.94	24.16	338.14
3.50	4	SLE	Q	2	9	0.00	-47094.80	-1396.30	-408.07	0.00	46.94	21.86	306.16
6.00	2	SLE	R	2	9	250.00	-50426.30	1479.52	406.11	0.00	46.94	23.25	325.82
6.00	4	SLE	Q	2	9	250.00	-45547.90	1300.02	406.34	0.00	46.94	20.98	294.14
6.50	2	SLE	R	3	9	0.00	-44113.50	-354.55	-163.98	0.00	9.24	54.44	760.66
6.50	4	SLE	Q	3	9	0.00	-39825.30	-310.66	-162.54	0.00	9.24	49.17	687.34
6.50	2	SLE	R	3	9	0.00	-44113.50	-354.55	-163.98	0.00	9.24	54.44	760.66
6.50	4	SLE	Q	3	9	0.00	-39825.30	-310.66	-162.54	0.00	9.24	49.17	687.34
9.00	2	SLE	R	3	9	250.00	-43566.60	356.13	198.02	0.00	9.24	54.50	759.20
9.00	4	SLE	Q	3	9	250.00	-39278.40	311.08	197.20	0.00	9.24	49.22	685.74
9.50	2	SLE	R	4	9	0.00	-38029.30	-547.25	-271.24	0.00	9.24	54.67	732.55
9.50	4	SLE	Q	4	9	0.00	-34270.00	-476.46	-270.57	0.00	9.24	49.32	661.32
9.50	2	SLE	R	4	9	0.00	-38029.30	-547.25	-271.24	0.00	9.24	54.67	732.55
9.50	4	SLE	Q	4	9	0.00	-34270.00	-476.46	-270.57	0.00	9.24	49.32	661.32
12.00	2	SLE	R	4	9	250.00	-37482.40	431.74	191.68	0.00	9.24	50.14	684.51
12.00	4	SLE	Q	4	9	250.00	-33723.20	374.86	190.80	0.00	9.24	45.10	616.28
12.50	2	SLE	R	5	9	0.00	-31860.80	-560.31	-259.28	0.00	9.24	48.69	641.91
12.50	4	SLE	Q	5	9	0.00	-28650.10	-482.64	-257.06	0.00	9.24	43.69	577.00
12.50	2	SLE	R	5	9	0.00	-31860.80	-560.31	-259.28	0.00	9.24	48.69	641.91
12.50	4	SLE	Q	5	9	0.00	-28650.10	-482.64	-257.06	0.00	9.24	43.69	577.00
15.00	2	SLE	R	5	9	250.00	-31313.90	444.57	190.59	0.00	9.24	44.33	595.82
15.00	4	SLE	Q	5	9	250.00	-28103.20	382.31	189.21	0.00	9.24	39.70	534.44
15.50	2	SLE	R	6	9	0.00	-25629.30	-606.34	-252.31	0.00	9.24	43.48	558.46

Relazione di calcolo

15.50	4	SLE Q	6	9	0.00	-22980.60	-520.59	-249.21	0.00	9.24	38.84	499.94
15.50	2	SLE R	6	9	0.00	-25629.30	-606.34	-252.31	0.00	6.16	45.48	584.00
15.50	4	SLE Q	6	9	0.00	-22980.60	-520.59	-249.21	0.00	6.16	40.60	522.57
18.00	2	SLE R	6	9	250.00	-25082.40	502.05	188.01	0.00	6.16	41.30	539.57
18.00	4	SLE Q	6	9	250.00	-22433.70	431.21	186.12	0.00	6.16	36.80	481.79
18.50	2	SLE R	7	9	0.00	-19240.20	-693.00	-248.73	0.00	6.16	40.92	504.31
18.50	4	SLE Q	7	9	0.00	-17173.60	-594.94	-244.59	0.00	6.16	36.33	448.85
18.50	2	SLE R	7	9	0.00	-19240.20	-693.00	-248.73	0.00	6.16	40.92	504.31
18.50	4	SLE Q	7	9	0.00	-17173.60	-594.94	-244.59	0.00	6.16	36.33	448.85
21.00	2	SLE R	7	9	250.00	-18693.30	561.45	189.26	0.00	6.16	36.16	454.44
21.00	4	SLE Q	7	9	250.00	-16626.80	481.64	186.96	0.00	6.16	32.04	403.55
21.50	2	SLE R	8	9	0.00	-12725.10	-751.08	-240.83	1.54	4.62	37.40	430.54
21.50	4	SLE Q	8	9	0.00	-11260.40	-643.98	-234.89	1.54	4.62	32.80	379.33
21.50	2	SLE R	8	9	0.00	-12725.10	-751.08	-240.83	1.54	4.62	37.40	430.54
21.50	4	SLE Q	8	9	0.00	-11260.40	-643.98	-234.89	1.54	4.62	32.80	379.33
24.00	2	SLE R	8	9	250.00	-12178.20	596.79	180.66	0.00	6.16	30.61	364.03
24.00	4	SLE Q	8	9	250.00	-10713.50	511.84	174.16	0.00	6.16	26.83	319.73
24.50	2	SLE R	9	9	0.00	-6096.43	-839.64	-253.73	3.08	3.08	46.86	674.24
24.50	4	SLE Q	9	9	0.00	-5255.93	-706.14	-256.14	3.08	3.08	40.68	569.93
24.50	2	SLE R	9	9	0.00	-6096.43	-839.64	-253.73	3.08	3.08	46.86	674.24
24.50	4	SLE Q	9	9	0.00	-5255.93	-706.14	-256.14	3.08	3.08	40.68	569.93
27.00	2	SLE R	9	9	250.00	-5549.56	692.61	277.07	3.08	3.08	40.19	520.16
27.00	4	SLE Q	9	9	250.00	-4709.05	572.97	274.75	3.08	3.08	34.57	437.61

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}	W _k
<m>					<m>	<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
24.50	4	SLE Q	9	9	0.00	-5255.93	-256.14	-706.14	39.00	258.00	0.50	14.00	175.81	1.54	107.55	569.93	0.17	0.05
24.50	3	SLE F	9	9	0.00	-5471.77	-255.58	-742.49	39.00	258.00	0.50	14.00	179.48	1.54	111.58	600.02	0.17	0.05
24.50	4	SLE Q	9	9	0.00	-5255.93	-256.14	-706.14	39.00	258.00	0.50	14.00	175.81	1.54	107.55	569.93	0.17	0.05
24.50	3	SLE F	9	9	0.00	-5471.77	-255.58	-742.49	39.00	258.00	0.50	14.00	179.48	1.54	111.58	600.02	0.17	0.05
27.00	4	SLE Q	9	9	250.00	-4709.05	274.75	572.97	39.00	258.00	0.50	14.00	153.56	1.54	83.09	437.61	0.13	0.03
27.00	3	SLE F	9	9	250.00	-4924.90	275.45	604.89	39.00	258.00	0.50	14.00	156.40	1.54	86.21	460.62	0.13	0.04

Stato limite ultimo - Verifiche a taglio con sistema di rinforzo

X0	X1	Staff.	Br _y	Br _z	StCam.	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRsdCam _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRsdCam _z	VRcd _z	Vrd _z	Sic
<m>	<m>							<m>	<m>	<daN>		<daN>	<daN>	<daN>	<daN>	<m>	<m>	<daN>		<daN>	<daN>	<daN>	<daN>	
0.00	0.50	ø6/15	2	2	ø8/10	1	SLU	0.70	0.40	648.79	2.50	0.00	35581.40	73293.00	32023.30	0.45	0.65	99.25	2.50	0.00	57709.10	76418.50	51938.20	49.3
0.50	2.50	ø6/15	2	2	ø8/10	1	SLU	0.70	0.40	648.79	2.50	0.00	35581.40	73222.10	32023.30	0.45	0.65	99.25	2.50	0.00	57709.10	76344.50	51938.20	49.3
2.50	3.00	ø6/15	2	2	ø8/10	1	SLU	0.70	0.40	648.79	2.50	0.00	35581.40	72938.20	32023.30	0.45	0.65	99.25	2.50	0.00	57709.10	76048.60	51938.20	49.3
3.50	3.95	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	1743.25	2.50	0.00	35581.40	58429.20	32023.30	0.45	0.50	419.98	2.50	0.00	44432.50	59697.70	39989.30	18.3
3.95	5.55	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	1743.25	2.50	0.00	35581.40	58379.00	32023.30	0.45	0.50	419.98	2.50	0.00	44432.50	59646.40	39989.30	18.3
5.55	6.00	ø6/15	2	2	ø8/10	1	SLU	0.55	0.40	1743.25	2.50	0.00	35581.40	58200.60	32023.30	0.45	0.50	419.98	2.50	0.00	44432.50	59464.10	39989.30	18.3
6.50	6.95	ø6/15	2	2	---	1	SLU	0.35	0.20	406.00	2.50	5312.50	---	7188.35	5312.50	0.25	0.30	187.07	2.45	7799.43	---	7799.43	7799.43	13.0
6.95	8.55	ø6/15	2	2	---	1	SLU	0.35	0.20	406.00	2.50	5312.50	---	7228.27	5312.50	0.25	0.30	187.07	2.46	7824.65	---	7824.65	7824.65	13.0
8.55	9.00	ø6/15	2	2	---	1	SLU	0.35	0.20	406.00	2.50	5312.50	---	7370.18	5312.50	0.25	0.30	187.07	2.49	7913.66	---	7913.66	7913.66	13.0
9.50	9.95	ø6/15	2	2	---	1	SLU	0.35	0.20	561.20	2.50	5312.50	---	9827.77	5312.50	0.25	0.30	237.51	2.50	7955.54	---	10512.30	7955.54	9.4
9.95	11.55	ø6/15	2	2	---	1	SLU	0.35	0.20	561.20	2.50	5312.50	---	9867.68	5312.50	0.25	0.30	237.51	2.50	7955.54	---	10555.00	7955.54	9.4
11.55	12.00	ø6/15	2	2	---	1	SLU	0.35	0.20	561.20	2.50	5312.50	---	10009.60	5312.50	0.25	0.30	237.51	2.50	7955.54	---	10706.80	7955.54	9.4
12.50	12.95	ø6/15	2	2	---	1	SLU	0.35	0.20	577.48	2.50	5312.50	---	12506.80	5312.50	0.25	0.30	232.81	2.50	7955.54	---	13378.00	7955.54	9.1
12.95	14.55	ø6/15	2	2	---	1	SLU	0.35	0.20	577.48	2.50	5312.50	---	12546.80	5312.50	0.25	0.30	232.81	2.50	7955.54	---	13420.70	7955.54	9.1
14.55	15.00	ø6/15	2	2	---	1	SLU	0.35	0.20	577.48	2.50	5312.50	---	12688.70	5312.50	0.25	0.30	232.81	2.50	7955.54	---	13572.50	7955.54	9.1
15.50	15.95	ø6/15	2	2	---	1	SLU	0.35	0.20	637.24	2.50	5312.50	---	13177.40	5312.50	0.25	0.30	227.37	2.50	7955.54	---	14095.20	7955.54	8.3
15.95	17.55	ø6/15	2	2	---	1	SLU	0.35	0.20	637.24	2.50	5312.50	---	13177.40	5312.50	0.25	0.30	227.37	2.50	7955.54	---	14095.20	7955.54	8.3
17.55	18.00	ø6/15	2	2	---	1	SLU	0.35	0.20	637.24	2.50	5312.50	---	13177.40	5312.50	0.25	0.30	227.37	2.50	7955.54	---	14095.20	7955.54	8.3
18.50	18.95	ø6/15	2	2	---	1	SLU	0.35	0.20	720.67	2.50	5312.50	---	13177.40	5312.50	0.25	0.30	225.99	2.50	7955.54	---	14095.20	7955.54	7.3
18.95	20.55	ø6/15	2	2	---	1	SLU	0.35	0.20	720.67	2.50	5312.50	---	13177.40	5312.50	0.25	0.30	225.99	2.50	7955.54	---	14095.20	7955.54	7.3
20.55	21.00	ø6/15	2	2	---	1	SLU	0.35	0.20	720.67	2.50	5312.50	---	13177.40	5312.50	0.25	0.30	225.99	2.50	7955.54	---	14095.20	7955.54	7.3
21.50	21.95	ø6/15	2	2	---	1	SLU	0.35	0.20	774.25	2.50	5312.50	---	12752.90	5312.50	0.25	0.30	218.72	2.50	7955.54	---	13641.10	7955.54	6.8
21.95	23.55	ø6/15	2	2	---	1	SLU	0.35	0.20	774.25	2.50	5312.50	---	12736.90	5312.50	0.25	0.30	218.72	2.50	7955.54	---	13624.10	7955.54	6.8
23.55	24.00	ø6/15	2	2	---	1	SLU	0.35	0.20	774.25	2.50	5312.50	---	12680.10	5312.50	0.25	0.30	218.72	2.50	7955.54	---	13563.30	7955.54	6.8
24.50	24.95	ø6/15	2	2	---	1	SLU	0.35	0.20	879.20	2.50	5312.50	---	11599.00	5312.50	0.25	0.30	271.33	2.50	7955.54	---	12406.90	7955.54	6.0
24.95	26.55	ø6/15	2	2	---	1	SLU	0.35	0.20	879.20	2.50	5312.50	---	11583.00	5312.50	0.25	0.30	271.33	2.50	7955.54	---	12389.80	7955.54	6.0
26.55	27.00	ø6/15	2	2	---	1	SLU	0.35	0.20	879.20	2.50	5312.50	---	11526.20	5312.50	0.25	0.30	271.33	2.50	7955.54	---	12329.10	7955.54	6.0

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

Relazione di calcolo

Fyd (Tag)

= Resistenza di calcolo dell'acciaio per verifica a taglio

Fym

= Tensione media di snervamento

K₂

= Coefficiente per distribuzione deformazioni

Liv.

= Numero del livello

M'yd_{y,r}

= Momento resistente massimo in campo sostanzialmente elastico (ridotto del 30%) intorno all'asse Y

M'yd_{z,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

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. 305

Nodi: -101 -119 -136 -153

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	-121523.00	589.41	0.00	-429421.00	5516.88	0.00	3.534
	2P	1	SLU	-120525.00	-537.39	0.00	-429422.00	-5500.32	0.00	3.563
	3P	1	SLU	-119630.00	541.45	0.00	-429421.00	5485.28	0.00	3.590

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>
	1P	2	SLE R	-86866.20	419.94	0.00	37.91	518.81
	1P	4	SLE Q	-74771.50	355.37	0.00	32.54	445.85
	2P	2	SLE R	-86118.60	-382.90	0.00	37.06	510.39
	2P	4	SLE Q	-74053.20	-323.11	0.00	31.77	438.15
	3P	2	SLE R	-85439.60	384.34	0.00	36.83	506.88
	3P	4	SLE Q	-73378.60	323.08	0.00	31.52	434.50

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	954.57	2.50	17295.40	45305.20	18.119
	2P	1	1848.75	2.50	17295.40	45684.60	9.355

Numero del nucleo n. 308

Nodi: -99 -100 -101

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	-111633.00	1014.43	0.00	-381658.00	4971.61	0.00	3.419
	2P	1	SLU	-109857.00	-1010.30	0.00	-381658.00	-4941.88	0.00	3.474
	3P	1	SLU	-105990.00	1324.67	0.00	-381658.00	4877.30	0.00	3.601

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ _c	σ _ε
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Relazione di calcolo

			<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
1P	2	SLE R	-79836.70	723.29	0.00	45.24	581.86
1P	4	SLE Q	-68567.30	596.38	0.00	38.41	496.41
2T	2	SLE R	-78024.80	887.90	0.00	47.44	592.85
2T	4	SLE Q	-66881.70	718.93	0.00	39.91	502.55
3P	2	SLE R	-75707.50	942.66	0.00	47.47	586.09
3P	4	SLE Q	-64981.50	763.56	0.00	39.94	496.97

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		726.19	2.50	15313.10	38684.30	21.087
2P	1		685.95	2.50	15313.10	39358.10	22.324

Numero del nucleo n. 310

Nodi: -99 -117 -134 -151

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	-121148.00	-522.04	0.00	-429421.00	-5510.73	0.00	3.545
2P	1		SLU	-120913.00	571.16	0.00	-429421.00	5506.83	0.00	3.551
3P	1		SLU	-120023.00	-641.63	0.00	-429422.00	-5491.92	0.00	3.578

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	-86604.80	-372.83	0.00	37.07	511.82
1P	4		SLE Q	-74536.70	-315.73	0.00	31.83	439.88
2P	2		SLE R	-86390.00	406.35	0.00	37.53	514.64
2T	2		SLE R	-85844.80	-391.65	0.00	37.10	509.95
2P	4		SLE Q	-74275.90	342.40	0.00	32.15	441.64
3P	2		SLE R	-85715.80	-453.89	0.00	38.04	516.64
3P	4		SLE Q	-73641.70	-379.19	0.00	32.51	442.58

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		1316.54	2.50	17295.40	45447.30	13.137
2T	1		2004.51	2.50	17295.40	45760.10	8.628

Numero del nucleo n. 320

Nodi: -151 -152 -153

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	-103499.00	-751.67	0.00	-381658.00	-4835.78	0.00	3.688
2P	1		SLU	-103832.00	738.74	0.00	-381658.00	4841.39	0.00	3.676
3P	1		SLU	-106809.00	-535.76	0.00	-381658.00	-4891.05	0.00	3.573

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	-73949.60	-529.55	0.00	39.40	520.18
1P	4		SLE Q	-63800.80	-429.41	0.00	33.50	445.12
2P	2		SLE R	-74182.20	521.43	0.00	39.35	520.51
2P	4		SLE Q	-63923.60	418.40	0.00	33.36	444.40
3P	2		SLE R	-76278.50	-373.02	0.00	37.55	513.41
3P	4		SLE Q	-65558.50	-279.92	0.00	31.55	435.82

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	441.27	2.50	15313.10	40515.40	34.702	
2T	1	479.48	2.50	15313.10	40515.40	31.937	

Numero del nucleo n. 324

Nodi: 37 -7235 -7141 -7225 38

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
20.00	3.40	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-200423.00	532.45	0.00	-862444.00	11598.50	0.00	4.303	
2P	1	SLU	-198072.00	271.32	0.00	-862444.00	11514.00	0.00	4.354	
3P	1	SLU	-193621.00	-131.83	0.00	-862444.00	-11354.20	0.00	4.454	
4T	1	SLU	-185445.00	4720.06	0.00	-185445.00	11040.60	0.00	2.339	
5P	1	SLU	-166607.00	-559.20	0.00	-862444.00	-10290.80	0.00	5.177	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1P	2	SLE R	-142927.00	393.92	0.00	26.25	383.55	
1P	4	SLE Q	-123567.00	336.49	0.00	22.67	331.39	
2P	2	SLE R	-141201.00	196.90	0.00	24.96	369.27	
2P	4	SLE Q	-121978.00	160.52	0.00	21.51	318.51	
3P	2	SLE R	-137983.00	-106.81	0.00	23.95	356.56	
3P	2	SLE R	-137983.00	0.00	1362.22	23.89	358.19	
3P	4	SLE Q	-119098.00	-109.03	0.00	20.76	308.60	
4T	2	SLE R	-132064.00	3347.26	0.00	39.37	504.01	
4T	4	SLE Q	-113785.00	2587.63	0.00	32.42	419.38	
5P	2	SLE R	-118678.00	-391.98	0.00	22.12	321.73	
5P	4	SLE Q	-102834.00	-267.08	0.00	18.80	275.14	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1370.99	2.50	3787.47	107367.00	2.763	
2P	1	1440.11	2.50	3787.47	107367.00	2.630	
3P	1	1721.10	2.50	3787.47	107367.00	2.201	
4P	1	2597.68	2.50	3787.47	107367.00	1.458	

Numero del nucleo n. 395

Nodi: -220 -228 -234 -241

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cm²>	Fctm <daN/cm²>	Fcd <daN/cm²>	Fcd (Tag) <daN/cm²>	Fctd <daN/cm²>	Fym <daN/cm²>	Fyd <daN/cm²>	Fyd (Tag) <daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-119630.00	541.45	0.00	-429421.00	5485.28	0.00	3.590	
2P	1	SLU	-120158.00	-766.57	0.00	-429422.00	-5494.24	0.00	3.574	
3P	1	SLU	-108122.00	-439.29	0.00	-429421.00	-5283.07	0.00	3.972	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1P	2	SLE R	-85439.60	384.34	0.00	36.83	506.88	
1P	4	SLE Q	-73378.60	323.08	0.00	31.52	434.50	
2T	2	SLE R	-85209.20	578.16	0.00	39.82	528.66	
2T	4	SLE Q	-73021.10	478.95	0.00	33.86	451.08	
3P	2	SLE R	-77272.70	0.00	-5440.99	34.39	512.03	
3P	4	SLE Q	-66419.20	0.00	-4440.05	29.28	435.98	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	8243.11	2.50	17295.40	45760.30	2.098
2P		1	1363.42	2.50	17295.40	45760.30	12.685

Numero del nucleo n. 398

Nodi: -218 -219 -220

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	-105990.00	1324.67	0.00	-381658.00	4877.30	0.00	3.601
2T		1	SLU	-103179.00	1760.58	0.00	-103179.00	4830.41	0.00	2.744
3P		1	SLU	-99778.60	1671.98	0.00	-99778.60	4773.82	0.00	2.855

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	-75707.50	942.66	0.00	47.47	586.09
1P		4	SLE Q	-64981.50	763.56	0.00	39.94	496.97
2T		2	SLE R	-73661.50	1256.55	0.00	52.24	615.62
2T		4	SLE Q	-63134.20	1008.27	0.00	43.55	518.46
3P		2	SLE R	-71266.90	1195.28	0.00	50.18	592.88
3P		4	SLE Q	-61203.10	964.40	0.00	41.99	500.86

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	1006.22	2.50	15313.10	40515.40	15.218
2T		1	28.92	2.50	15313.10	40515.40	529.450

Numero del nucleo n. 400

Nodi: -218 -227 -233 -239

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	-120023.00	-641.63	0.00	-429422.00	-5491.92	0.00	3.578
2P		1	SLU	-120120.00	791.92	0.00	-429422.00	5493.54	0.00	3.575
3P		1	SLU	-108739.00	404.73	0.00	-429421.00	5294.94	0.00	3.949

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	-85715.80	-453.89	0.00	38.04	516.64
1P		4	SLE Q	-73641.70	-379.19	0.00	32.51	442.58
2T		2	SLE R	-85184.00	-576.90	0.00	39.79	528.37
2T		4	SLE Q	-73055.50	-481.95	0.00	33.92	451.62
3P		2	SLE R	-77699.90	0.00	-5851.11	35.04	521.49
3P		4	SLE Q	-66763.20	0.00	-4803.61	29.84	444.18

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	7589.46	2.50	17295.40	45760.10	2.279
2P		1	1329.24	2.50	17295.40	45760.10	13.011

Numero del nucleo n. 405

Relazione di calcolo

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.
1	P	1	SLU	-106809.00	-535.76	0.00	-381658.00	-4891.05	0.00	3.573
2	P	1	SLU	-105690.00	688.27	0.00	-381658.00	4872.37	0.00	3.611
3	P	1	SLU	-96716.10	2485.72	0.00	-96716.10	4715.29	0.00	1.897

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	-76278.50	-373.02	0.00	37.55	513.41
1	P	4	SLE Q	-65558.50	-279.92	0.00	31.55	435.82
2	T	2	SLE R	-74970.60	-672.73	0.00	42.36	545.53
2	T	4	SLE Q	-64233.50	-456.08	0.00	34.15	451.32
3	P	2	SLE R	-69063.00	1765.88	0.00	59.67	656.55
3	P	4	SLE Q	-59444.30	1353.63	0.00	48.21	542.21

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	386.18	2.50	15313.10	40514.10	39.653
2	T	1	62.79	2.50	15313.10	40515.40	243.889

Numero del nucleo n. 409

Nodi: 237 -7163 -260 -7171 238

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	-166607.00	-559.20	0.00	-862444.00	-10290.80	0.00	5.177
2	P	1	SLU	-153421.00	-548.55	0.00	-862444.00	-9736.91	0.00	5.621
3	P	1	SLU	-133868.00	-627.93	0.00	-862444.00	-8865.52	0.00	6.442
4	P	1	SLU	-84430.00	218.09	0.00	-862444.00	6445.05	0.00	10.215

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	-118678.00	-391.98	0.00	22.12	321.73
1	P	4	SLE Q	-102834.00	-267.08	0.00	18.80	275.14
2	P	2	SLE R	-109268.00	-387.55	0.00	20.50	297.55
2	P	4	SLE Q	-94632.20	-292.51	0.00	17.54	255.53
3	P	2	SLE R	-95333.40	-449.99	0.00	18.46	265.22
3	P	4	SLE Q	-82523.80	-377.81	0.00	15.92	228.99
4	P	2	SLE R	-60155.70	153.00	0.00	10.98	160.78
4	T	2	SLE R	-59611.90	-129.28	0.00	10.77	158.21
4	P	4	SLE Q	-52071.70	121.01	0.00	9.45	138.60

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1319.45	2.50	37874.70	107367.00	28.705
2	P	1	1248.81	2.50	37874.70	107367.00	30.329
3	P	1	2870.47	2.50	37874.70	106423.00	13.195
4	P	1	2828.82	2.50	37874.70	98841.00	13.389

Numero del nucleo n. 487

Nodi: -907 -915 -921 387

Caratteristiche delle sezioni e dei materiali utilizzati

Relazione di calcolo

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
	1P		1SLU	-108122.00	-439.29	0.00	-429421.00	-5283.07	0.00	3.972
	2P		1SLU	-108362.00	143.96	0.00	-429421.00	5287.66	0.00	3.963
	3P		1SLU	-107603.00	87.89	0.00	-429421.00	5273.14	0.00	3.991

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ _c	σ _t
				<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
	1P		2SLE R	-77272.70	0.00	-5440.99	34.39	512.03
	1P		4SLE Q	-66419.20	0.00	-4440.05	29.28	435.98
	2P		2SLE R	-77391.90	98.96	0.00	29.42	429.55
	2T		2SLE R	-76924.60	0.00	-1411.45	29.39	439.89
	2P		4SLE Q	-66473.80	83.33	0.00	25.24	368.75
	3P		2SLE R	-76812.00	0.00	-3003.89	31.28	467.05
	3P		4SLE Q	-65926.30	0.00	-2458.10	26.70	398.76

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
	1P		1 12118.40	2.50	17295.40	45760.30	1.427
	2T		1 4145.58	2.50	17295.40	45760.30	4.172

Numero del nucleo n. 495

Nodi: -905 -906 -907

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
	1P		1SLU	-99778.60	1671.98	0.00	-99778.60	4773.82	0.00	2.855
	2T		1SLU	-96441.10	1918.92	0.00	-96441.10	4710.06	0.00	2.455
	3P		1SLU	-94997.80	1793.05	0.00	-94997.80	4682.45	0.00	2.611

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ _c	σ _t
				<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
	1P		2SLE R	-71266.90	1195.28	0.00	50.18	592.88
	1P		4SLE Q	-61203.10	964.40	0.00	41.99	500.86
	2T		2SLE R	-68851.50	1373.25	0.00	52.37	602.00
	2T		4SLE Q	-59085.60	1102.75	0.00	43.59	506.49
	3P		2SLE R	-67825.00	1285.91	0.00	50.40	584.08
	3P		4SLE Q	-58177.40	1039.27	0.00	42.10	492.48

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
	1P		1 1828.78	2.50	15313.10	40515.40	8.373
	2P		1 208.66	2.50	15313.10	40515.40	73.388

Numero del nucleo n. 497

Nodi: -905 -914 -920 386

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy, r	MRdz, r	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
	1P		1SLU	-108739.00	404.73	0.00	-429421.00	5294.94	0.00	3.949

Relazione di calcolo

2P	1SLU	-109682.00	-58.09	0.00	-429421.00	-5313.03	0.00	3.915
3P	1SLU	-108675.00	-285.21	0.00	-429421.00	-5293.71	0.00	3.951

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		-77699.90	0.00	-5851.11	35.04	521.49
1P	4	SLE Q		-66763.20	0.00	-4803.61	29.84	444.18
2T	2	SLE R		-77845.60	0.00	-1466.67	29.79	445.83
2T	4	SLE Q		-66740.20	0.00	-1176.23	25.44	380.81
3P	2	SLE R		-77563.70	-199.24	0.00	31.07	442.39
3P	2	SLE R		-77563.70	0.00	-2193.54	30.57	456.98
3P	4	SLE Q		-66531.30	-166.11	0.00	26.57	378.90

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		14055.40	2.50	17295.40	45760.10	1.231
2T	1		4061.14	2.50	17295.40	45760.10	4.259

Numero del nucleo n. 503

Nodi: 386 -926 387

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		-96716.10	2485.72	0.00	-96716.10	4715.29	0.00	1.897
2P	1	SLU		-96038.60	-1804.89	0.00	-96038.60	-4702.38	0.00	2.605
3P	1	SLU		-97493.90	1222.65	0.00	-97493.90	4730.19	0.00	3.869

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		-69063.00	1765.88	0.00	59.67	656.55
1P	4	SLE Q		-59444.30	1353.63	0.00	48.21	542.21
2P	2	SLE R		-68567.50	-1291.38	0.00	50.80	589.33
2P	4	SLE Q		-58884.40	-1015.05	0.00	41.95	493.54
3P	2	SLE R		-69573.90	884.84	0.00	43.96	541.09
3P	4	SLE Q		-59666.90	719.56	0.00	37.00	458.79

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		4.59	2.50	15313.10	40515.40	*****
2T	1		292.77	2.50	15313.10	40515.40	52.303

Numero del nucleo n. 587

Nodi: -994 -1002 -1008 -1015

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		-107603.00	87.89	0.00	-429421.00	5273.14	0.00	3.991
2P	1	SLU		-108438.00	-383.34	0.00	-429421.00	-5289.16	0.00	3.960
3P	1	SLU		-97134.10	-572.01	0.00	-429421.00	-5071.33	0.00	4.421

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		-76812.00	0.00	-3003.89	31.28	467.05
1P	4	SLE Q		-65926.30	0.00	-2458.10	26.70	398.76

Relazione di calcolo

2T	2	SLE R	-76880.70	336.11	0.00	32.99	454.95
2P	2	SLE R	-77348.00	0.00	2690.18	31.09	464.47
2T	4	SLE Q	-65841.60	277.08	0.00	28.08	388.35
3P	2	SLE R	-69386.60	-399.30	0.00	31.29	422.00
3P	2	SLE R	-69386.60	0.00	-3966.48	29.77	443.75
3P	4	SLE Q	-59567.20	-333.24	0.00	26.71	361.14

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	12544.60	2.50	17295.40	45760.30	1.379	
2P	1	1108.16	2.50	17295.40	45760.30	15.607	

Numero del nucleo n. 595

Nodi: -992 -993 -994

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		-94997.80	1793.05	0.00	-94997.80	4682.45	0.00	2.611
2T	1	SLU		-90985.90	1793.81	0.00	-90985.90	4605.69	0.00	2.568
3P	1	SLU		-88634.80	1560.18	0.00	-88634.80	4560.72	0.00	2.923

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		-67825.00	1285.91	0.00	50.40	584.08
1P	4	SLE Q		-58177.40	1039.27	0.00	42.10	492.48
2T	2	SLE R		-64928.80	1287.52	0.00	49.26	566.70
2T	4	SLE Q		-55628.80	1027.92	0.00	40.86	475.48
3P	2	SLE R		-63277.90	1123.58	0.00	45.66	534.75
3P	4	SLE Q		-54305.30	900.51	0.00	38.05	450.40

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1920.85	2.50	15313.10	40515.40	7.972	
2T	1	428.03	2.50	15313.10	40515.40	35.776	

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.
1P	1	SLU		-108675.00	-285.21	0.00	-429421.00	-5293.71	0.00	3.951
2P	1	SLU		-109210.00	619.23	0.00	-429421.00	5303.96	0.00	3.932
3P	1	SLU		-96434.10	497.86	0.00	-429421.00	5056.38	0.00	4.453

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		-77563.70	-199.24	0.00	31.07	442.39
1P	2	SLE R		-77563.70	0.00	-2193.54	30.57	456.98
1P	4	SLE Q		-66531.30	-166.11	0.00	26.57	378.90
2T	2	SLE R		-77425.40	-496.31	0.00	35.72	476.92
2T	4	SLE Q		-66289.10	-412.38	0.00	30.39	406.84
3P	2	SLE R		-68890.50	0.00	-4968.66	30.81	458.55
3P	4	SLE Q		-59169.50	0.00	-4046.41	26.19	389.99

Stato limite ultimo - Verifiche a taglio

Relazione di calcolo

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	10554.40	2.50	17295.40	45760.10	1.639
	2T	1	196.19	2.50	17295.40	45760.10	88.159

Numero del nucleo n. 603

Nodi: -1013 -1014 -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.
	1P	1	SLU	-97493.90	1222.65	0.00	-97493.90	4730.19	0.00	3.869
	2P	1	SLU	-97302.40	-360.12	0.00	-381658.00	-4726.56	0.00	3.922
	3P	1	SLU	-87573.70	2800.40	0.00	-87573.70	4540.47	0.00	1.621

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	-69573.90	884.84	0.00	43.96	541.09
	1P	4	SLE Q	-59666.90	719.56	0.00	37.00	458.79
	2T	2	SLE R	-69011.70	-305.25	0.00	33.40	460.19
	2P	4	SLE Q	-59429.10	-269.93	0.00	28.89	397.24
	3P	2	SLE R	-62506.60	1993.28	0.00	63.02	652.94
	3P	4	SLE Q	-53744.50	1517.97	0.00	49.48	531.75

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	418.41	2.50	15313.10	40515.40	36.598
	2P	1	1339.12	2.50	15313.10	40515.40	11.435

Numero del nucleo n. 687

Nodi: -1681 -1689 -1695 587

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	-97134.10	-572.01	0.00	-429421.00	-5071.33	0.00	4.421
	2P	1	SLU	-97708.40	228.43	0.00	-429421.00	5083.59	0.00	4.395
	3P	1	SLU	-96649.40	91.13	0.00	-429421.00	5060.97	0.00	4.443

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	-69386.60	-399.30	0.00	31.29	422.00
	1P	2	SLE R	-69386.60	0.00	-3966.48	29.77	443.75
	1P	4	SLE Q	-59567.20	-333.24	0.00	26.71	361.14
	2P	2	SLE R	-69741.00	158.28	0.00	27.61	395.29
	2P	4	SLE Q	-59805.30	133.49	0.00	23.64	338.71
	3P	2	SLE R	-68951.30	0.00	-2627.85	28.00	418.05
	3P	4	SLE Q	-59087.70	0.00	-2138.89	23.85	356.28

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	8294.08	2.50	17295.40	45760.30	2.085
	2T	1	2667.87	2.50	17295.40	45760.30	6.483

Numero del nucleo n. 695

Relazione di calcolo

Nodi: -1679 -1680 -1681

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	-88634.80	1560.18	0.00	-88634.80	4560.72	0.00	2.923
2	T	1	SLU	-85537.80	1660.82	0.00	-85537.80	4498.62	0.00	2.709
3	P	1	SLU	-84353.80	1474.54	0.00	-84353.80	4473.28	0.00	3.034

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	-63277.90	1123.58	0.00	45.66	534.75
1	P	4	SLE Q	-54305.30	900.51	0.00	38.05	450.40
2	T	2	SLE R	-61032.90	1195.09	0.00	46.03	530.67
2	T	4	SLE Q	-52319.90	948.67	0.00	38.11	444.78
3	P	2	SLE R	-60194.50	1064.92	0.00	43.37	508.17
3	P	4	SLE Q	-51576.00	850.03	0.00	36.05	427.07

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1055.29	2.50	15313.10	40515.40	14.511
2	P	1	419.48	2.50	15313.10	40515.40	36.505

Numero del nucleo n. 697

Nodi: -1679 -1688 -1694 586

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	-96434.10	497.86	0.00	-429421.00	5056.38	0.00	4.453
2	P	1	SLU	-97324.00	-97.67	0.00	-429421.00	-5075.44	0.00	4.412
3	P	1	SLU	-96469.40	-237.09	0.00	-429421.00	-5057.21	0.00	4.451

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	-68890.50	0.00	-4968.66	30.81	458.55
1	P	4	SLE Q	-59169.50	0.00	-4046.41	26.19	389.99
2	T	2	SLE R	-68999.30	0.00	-1120.05	26.19	392.03
2	T	4	SLE Q	-59124.60	0.00	-868.20	22.33	334.33
3	P	2	SLE R	-68823.20	-164.51	0.00	27.37	391.08
3	P	2	SLE R	-68823.20	0.00	-1451.47	26.53	396.86
3	P	4	SLE Q	-59002.30	-138.40	0.00	23.43	334.96

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	11090.50	2.50	17295.40	45760.10	1.559
2	P	1	2449.01	2.50	17295.40	45760.10	7.062

Numero del nucleo n. 703

Nodi: 586 -1700 587

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

Relazione di calcolo

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-87573.70	2800.40	0.00	-87573.70	4540.47	0.00	1.621
	2P	1	SLU	-86374.00	-1767.35	0.00	-86374.00	-4516.53	0.00	2.556
	3P	1	SLU	-87717.70	908.00	0.00	-381658.00	4543.22	0.00	4.351

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	-62506.60	1993.28	0.00	63.02	652.94
	1P	4	SLE Q	-53744.50	1517.97	0.00	49.48	531.75
	2P	2	SLE R	-61642.40	-1269.24	0.00	47.60	544.28
	2P	4	SLE Q	-52890.60	-978.55	0.00	38.87	452.24
	3P	2	SLE R	-62564.60	666.21	0.00	37.22	469.27
	3P	4	SLE Q	-53592.50	523.08	0.00	31.04	395.61

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	119.14	2.50	15313.10	40515.40	128.530
	2T	1	637.49	2.50	15313.10	40515.40	24.021

Numero del nucleo n. 787

Nodi: -1759 -1767 -1773 -1780

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	-96649.40	91.13	0.00	-429421.00	5060.97	0.00	4.443
	2P	1	SLU	-97349.50	-443.05	0.00	-429421.00	-5075.95	0.00	4.411
	3P	1	SLU	-84611.80	-638.26	0.00	-429421.00	-4803.16	0.00	5.075

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	-68951.30	0.00	-2627.85	28.00	418.05
	1P	4	SLE Q	-59087.70	0.00	-2138.89	23.85	356.28
	2T	2	SLE R	-68926.00	395.97	0.00	31.08	419.12
	2T	2	SLE R	-68926.00	0.00	3011.38	28.45	424.61
	2T	4	SLE Q	-58927.50	323.33	0.00	26.33	356.51
	3P	2	SLE R	-60423.40	-445.15	0.00	28.79	379.06
	3P	2	SLE R	-60423.40	0.00	-4050.54	26.65	396.82
	3P	4	SLE Q	-51850.10	-370.74	0.00	24.53	323.94

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	11960.10	2.50	17295.40	45760.30	1.446
	2P	1	1263.32	2.50	17295.40	45760.30	13.690

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	-84353.80	1474.54	0.00	-84353.80	4473.28	0.00	3.034
	2T	1	SLU	-80098.10	1429.68	0.00	-80098.10	4382.08	0.00	3.065
	3P	1	SLU	-78050.50	1137.57	0.00	-78050.50	4338.25	0.00	3.814

Stato limite d'esercizio - Verifiche tensionali

Relazione di calcolo

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	-60194.50	1064.92	0.00	43.37	508.17
1	P	4	SLE Q	-51576.00	850.03	0.00	36.05	427.07
2	T	2	SLE R	-57130.20	1033.13	0.00	41.56	485.30
2	T	4	SLE Q	-48899.00	810.66	0.00	34.26	405.54
3	P	2	SLE R	-55691.30	828.14	0.00	37.32	449.14
3	P	4	SLE Q	-47751.30	650.16	0.00	30.93	377.10

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2274.80	2.50	15313.10	40515.40	6.732
2	T	1	381.01	2.50	15313.10	40515.40	40.190

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.
1	P	1	SLU	-96469.40	-237.09	0.00	-429421.00	-5057.21	0.00	4.451
2	P	1	SLU	-97303.10	591.46	0.00	-429421.00	5075.02	0.00	4.413
3	P	1	SLU	-83979.60	570.04	0.00	-429421.00	4789.67	0.00	5.113

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	-68823.20	-164.51	0.00	27.37	391.08
1	P	2	SLE R	-68823.20	0.00	-1451.47	26.53	396.86
1	P	4	SLE Q	-59002.30	-138.40	0.00	23.43	334.96
2	T	2	SLE R	-68893.70	-481.50	0.00	32.42	429.11
2	T	4	SLE Q	-58929.10	-402.50	0.00	27.58	365.93
3	P	2	SLE R	-59971.20	402.73	0.00	27.96	371.58
3	P	2	SLE R	-59971.20	0.00	-4291.59	26.78	398.59
3	P	4	SLE Q	-51471.60	330.36	0.00	23.76	317.10

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	8051.90	2.50	17295.40	45760.10	2.148
2	P	1	1679.97	2.50	17295.40	45760.10	10.295

Numero del nucleo n. 803

Nodi: -1778 -1779 -1780

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	-87717.70	908.00	0.00	-381658.00	4543.22	0.00	4.351
2	T	1	SLU	-87067.90	-1422.42	0.00	-87067.90	-4530.88	0.00	3.185
3	P	1	SLU	-76154.50	3092.39	0.00	-76154.50	4297.60	0.00	1.390

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	-62564.60	666.21	0.00	37.22	469.27
1	P	4	SLE Q	-53592.50	523.08	0.00	31.04	395.61
2	T	2	SLE R	-62055.80	-969.60	0.00	42.42	506.74
2	T	4	SLE Q	-52974.90	-724.12	0.00	34.37	418.74
3	P	2	SLE R	-54337.90	2199.61	0.00	68.72	639.75

Relazione di calcolo

3P	4SLE Q	-46712.80	1665.32	0.00	51.94	515.29
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Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1866.61	2.50	15313.10	40515.40	8.204	
2T	1	796.24	2.50	15313.10	40515.40	19.232	

Numero del nucleo n. 887

Nodi: -2446 -2454 -2460 787

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	-84611.80	-638.26	0.00	-429421.00	-4803.16	0.00	5.075	
2P	1	SLU	-85279.40	238.64	0.00	-429421.00	4817.49	0.00	5.035	
3P	1	SLU	-84243.80	116.44	0.00	-429421.00	4795.30	0.00	5.097	

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	-60423.40	-445.15	0.00	28.79	379.06	
1P	2	SLE R	-60423.40	0.00	-4050.54	26.65	396.82	
1P	4	SLE Q	-51850.10	-370.74	0.00	24.53	323.94	
2P	2	SLE R	-60843.30	164.63	0.00	24.50	348.01	
2P	4	SLE Q	-52143.90	139.21	0.00	20.97	298.03	
3P	2	SLE R	-60069.10	0.00	-2509.14	24.66	368.03	
3P	4	SLE Q	-51433.80	0.00	-2014.74	20.95	312.80	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	7506.92	2.50	17295.40	45760.30	2.304	
2P	1	864.38	2.50	17295.40	45760.30	20.009	

Numero del nucleo n. 895

Nodi: -2444 -2445 -2446

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	-78050.50	1137.57	0.00	-78050.50	4338.25	0.00	3.814	
2T	1	SLU	-74922.30	1303.97	0.00	-74922.30	4271.23	0.00	3.276	
3P	1	SLU	-73563.20	1090.83	0.00	-73563.20	4242.04	0.00	3.889	

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	-55691.30	828.14	0.00	37.32	449.14	
1P	4	SLE Q	-47751.30	650.16	0.00	30.93	377.10	
2T	2	SLE R	-53421.20	944.66	0.00	38.48	450.93	
2T	4	SLE Q	-45749.30	735.92	0.00	31.65	376.40	
3P	2	SLE R	-52458.30	795.48	0.00	35.43	425.14	
3P	4	SLE Q	-44920.10	621.40	0.00	29.28	356.05	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	188.92	2.50	15313.10	40515.40	81.058	
2P	1	290.77	2.50	15313.10	40515.40	52.664	

Numero del nucleo n. 897

Nodi: -2444 -2453 -2459 786

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		1SLU	-83979.60	570.04	0.00	-429421.00	4789.67	0.00	5.113
	2P		1SLU	-84922.00	-153.36	0.00	-429421.00	-4809.85	0.00	5.057
	3P		1SLU	-83928.60	-199.59	0.00	-429421.00	-4788.62	0.00	5.117

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		2SLE R	-59971.20	402.73	0.00	27.96	371.58
	1P		2SLE R	-59971.20	0.00	-4291.59	26.78	398.59
	1P		4SLE Q	-51471.60	330.36	0.00	23.76	317.10
	2P		2SLE R	-60584.50	-110.37	0.00	23.55	340.18
	2T		2SLE R	-60117.30	0.00	-809.40	22.62	338.66
	2P		4SLE Q	-51923.30	-87.96	0.00	20.08	290.76
	3P		2SLE R	-59844.50	-137.02	0.00	23.71	339.35
	3P		2SLE R	-59844.50	0.00	-1336.92	23.16	346.39
	3P		4SLE Q	-51259.30	-116.36	0.00	20.29	290.55

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 8065.83	2.50	17295.40	45760.10	2.144
	2P		1 795.10	2.50	17295.40	45760.10	21.753

Numero del nucleo n. 903

Nodi: 786 -2465 787

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		1SLU	-76154.50	3092.39	0.00	-76154.50	4297.60	0.00	1.390
	2P		1SLU	-74840.40	-1752.61	0.00	-74840.40	-4269.46	0.00	2.436
	3P		1SLU	-76474.50	724.03	0.00	-381658.00	4304.49	0.00	4.991

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		2SLE R	-54337.90	2199.61	0.00	68.72	639.75
	1P		4SLE Q	-46712.80	1665.32	0.00	51.94	515.29
	2P		2SLE R	-53395.90	-1259.27	0.00	44.09	492.89
	2P		4SLE Q	-45790.50	-950.41	0.00	35.49	405.33
	3P		2SLE R	-54523.90	536.55	0.00	31.65	403.07
	3P		4SLE Q	-46644.50	397.07	0.00	25.98	336.54

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 508.48	2.50	15313.10	40515.40	30.115
	2T		1 358.88	2.50	15313.10	40515.40	42.669

Numero del nucleo n. 987

Nodi: -2524 -2532 -2538 -2545

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	-84243.80	116.44	0.00	-429421.00	4795.30	0.00	5.097
2	P	1	SLU	-85074.50	-508.17	0.00	-429421.00	-4813.07	0.00	5.048
3	P	1	SLU	-71502.50	-625.80	0.00	-429421.00	-4499.49	0.00	6.006

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	-60069.10	0.00	-2509.14	24.66	368.03
1	P	4	SLE Q	-51433.80	0.00	-2014.74	20.95	312.80
2	T	2	SLE R	-60134.70	455.06	0.00	28.85	378.67
2	T	2	SLE R	-60134.70	0.00	3610.32	26.01	387.59
2	T	4	SLE Q	-51344.90	372.61	0.00	24.38	321.43
3	P	2	SLE R	-51041.20	-435.75	0.00	25.27	327.29
3	P	2	SLE R	-51041.20	0.00	-3932.14	23.13	344.11
3	P	4	SLE Q	-43763.30	-365.81	0.00	21.54	279.69

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	11493.60	2.50	17295.40	45760.30	1.505
2	P	1	3018.48	2.50	17295.40	45760.30	5.730

Numero del nucleo n. 995

Nodi: -2522 -2523 -2524

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	-73563.20	1090.83	0.00	-73563.20	4242.04	0.00	3.889
2	T	1	SLU	-68901.50	1092.28	0.00	-68901.50	4133.44	0.00	3.784
3	P	1	SLU	-66893.20	758.39	0.00	-66893.20	4086.20	0.00	5.388

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	-52458.30	795.48	0.00	35.43	425.14
1	P	4	SLE Q	-44920.10	621.40	0.00	29.28	356.05
2	T	2	SLE R	-49104.30	794.47	0.00	34.06	404.62
2	T	4	SLE Q	-42029.10	615.00	0.00	27.99	337.63
3	P	2	SLE R	-47697.70	559.67	0.00	29.30	364.68
3	P	4	SLE Q	-40880.80	431.80	0.00	24.26	306.16

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	2234.68	2.50	15313.10	40515.40	6.852
2	P	1	154.62	2.50	15313.10	40515.40	99.034

Numero del nucleo n. 997

Nodi: -2522 -2531 -2537 -2543

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Relazione di calcolo

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-83928.60	-199.59	0.00	-429421.00	-4788.62	0.00	5.117
	2P	1	SLU	-84779.10	558.44	0.00	-429421.00	4806.83	0.00	5.065
	3P	1	SLU	-71054.20	651.20	0.00	-429421.00	4488.92	0.00	6.044

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	-59844.50	-137.02	0.00	23.71	339.35
	1P	2	SLE R	-59844.50	0.00	-1336.92	23.16	346.39
	1P	4	SLE Q	-51259.30	-116.36	0.00	20.29	290.55
	2T	2	SLE R	-59927.80	-455.48	0.00	28.78	377.61
	2T	2	SLE R	-59927.80	0.00	3752.90	26.11	388.96
	2T	4	SLE Q	-51201.40	-382.28	0.00	24.48	321.81
	3P	2	SLE R	-50722.00	460.79	0.00	25.55	328.55
	3P	2	SLE R	-50722.00	0.00	-4101.72	23.22	345.35
	3P	4	SLE Q	-43489.20	377.18	0.00	21.62	279.57

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	7481.78	2.50	17295.40	45760.10	2.312
	2T	1	3267.43	2.50	17295.40	45760.10	5.293

Numero del nucleo n. 1003

Nodi: -2543 -2544 -2545

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	-76474.50	724.03	0.00	-381658.00	4304.49	0.00	4.991
	2T	1	SLU	-76083.40	-2006.42	0.00	-76083.40	-4296.10	0.00	2.141
	3P	1	SLU	-64364.90	3156.73	0.00	-64364.90	4026.80	0.00	1.276

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	-54523.90	536.55	0.00	31.65	403.07
	1P	4	SLE Q	-46644.50	397.07	0.00	25.98	336.54
	2T	2	SLE R	-54201.00	-1382.72	0.00	46.77	514.82
	2T	4	SLE Q	-46154.40	-1080.30	0.00	37.96	424.94
	3P	2	SLE R	-45908.00	2243.09	0.00	72.16	593.07
	3P	4	SLE Q	-39416.60	1711.85	0.00	53.91	481.04

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	1823.86	2.50	15313.10	40515.40	8.396
	2T	1	402.16	2.50	15313.10	40515.40	38.077

Numero del nucleo n. 1087

Nodi: -3211 -3219 -3225 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.
	1P	1	SLU	-71502.50	-625.80	0.00	-429421.00	-4499.49	0.00	6.006
	2P	1	SLU	-72171.50	196.86	0.00	-429421.00	4515.16	0.00	5.950
	3P	1	SLU	-70975.70	171.91	0.00	-429421.00	4487.07	0.00	6.050

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	-51041.20	-435.75	0.00	25.27	327.29
1	P	2	SLE R	-51041.20	0.00	-3932.14	23.13	344.11
1	P	4	SLE Q	-43763.30	-365.81	0.00	21.54	279.69
2	P	2	SLE R	-51462.10	134.69	0.00	20.65	293.81
2	P	4	SLE Q	-44061.30	116.37	0.00	17.70	251.68
3	P	2	SLE R	-50575.00	0.00	-2119.61	20.77	309.99
3	P	4	SLE Q	-43258.30	0.00	-1698.18	17.62	263.14

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	6421.27	2.50	17295.40	45760.30	2.693
2	P	1	545.56	2.50	17295.40	45760.30	31.702

Numero del nucleo n. 1095

Nodi: -3209 -3210 -3211

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	-66893.20	758.39	0.00	-66893.20	4086.20	0.00	5.388
2	T	1	SLU	-63601.50	990.71	0.00	-63601.50	4008.87	0.00	4.046
3	P	1	SLU	-62177.70	749.39	0.00	-62177.70	3975.32	0.00	5.305

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	-47697.70	559.67	0.00	29.30	364.68
1	P	4	SLE Q	-40880.80	431.80	0.00	24.26	306.16
2	T	2	SLE R	-45315.20	721.93	0.00	31.23	371.89
2	T	4	SLE Q	-38764.20	558.02	0.00	25.65	310.17
3	P	2	SLE R	-44310.10	552.81	0.00	27.81	343.18
3	P	4	SLE Q	-37875.80	427.08	0.00	22.96	287.27

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	678.20	2.50	15313.10	40515.40	22.579
2	P	1	30.30	2.50	15313.10	40515.40	505.314

Numero del nucleo n. 1097

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	-71054.20	651.20	0.00	-429421.00	4488.92	0.00	6.044
2	P	1	SLU	-72123.40	-222.53	0.00	-429421.00	-4514.11	0.00	5.954
3	P	1	SLU	-71206.30	-151.31	0.00	-429421.00	-4492.54	0.00	6.031

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	-50722.00	460.79	0.00	25.55	328.55
1	P	2	SLE R	-50722.00	0.00	-4101.72	23.22	345.35
1	P	4	SLE Q	-43489.20	377.18	0.00	21.62	279.57
2	P	2	SLE R	-51424.80	-159.72	0.00	21.04	296.59
2	P	4	SLE Q	-44012.80	-127.57	0.00	17.86	252.76

Relazione di calcolo

3P	2	SLE R	-50738.30	-102.56	0.00	19.88	286.09
3P	2	SLE R	-50738.30	0.00	-1297.96	19.83	296.55
3P	4	SLE Q	-43391.80	-89.13	0.00	17.03	244.84

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		7016.67	2.50	17295.40	45760.10	2.465
2T	1		600.91	2.50	17295.40	45760.10	28.782

Numero del nucleo n. 1103

Nodi: 986 -3230 987

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		-64364.90	3156.73	0.00	-64364.90	4026.80	0.00	1.276
2P	1	SLU		-63086.10	-1623.06	0.00	-63086.10	-3996.67	0.00	2.462
3P	1	SLU		-64868.70	461.32	0.00	-381658.00	4038.60	0.00	5.884

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		-45908.00	2243.09	0.00	72.16	593.07
1P	4	SLE Q		-39416.60	1711.85	0.00	53.91	481.04
2P	2	SLE R		-44988.10	-1165.60	0.00	39.18	429.86
2P	4	SLE Q		-38532.80	-881.90	0.00	31.33	352.07
3P	2	SLE R		-46217.50	348.75	0.00	24.94	327.49
3P	4	SLE Q		-39495.90	249.77	0.00	20.45	273.41

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		642.43	2.50	15313.10	40515.40	23.836
2T	1		84.83	2.50	15313.10	40515.40	180.516

Numero del nucleo n. 1187

Nodi: -3289 -3297 -3303 -3310

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		-70975.70	171.91	0.00	-429421.00	4487.07	0.00	6.050
2P	1	SLU		-71728.80	-548.37	0.00	-429421.00	-4504.75	0.00	5.987
3P	1	SLU		-57838.10	-692.30	0.00	-57838.10	-4164.21	0.00	6.015

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		-50575.00	0.00	-2119.61	20.77	309.99
1P	4	SLE Q		-43258.30	0.00	-1698.18	17.62	263.14
2T	2	SLE R		-50585.80	465.19	0.00	25.57	328.33
2T	2	SLE R		-50585.80	0.00	4074.01	23.14	344.12
2T	4	SLE Q		-43124.90	381.05	0.00	21.55	278.06
3P	2	SLE R		-41265.90	-482.89	0.00	22.50	280.11
3P	2	SLE R		-41265.90	0.00	-3830.05	19.49	289.56
3P	4	SLE Q		-35337.20	-405.99	0.00	19.15	238.98

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	10016.60	2.50	17295.40	45760.30	1.727
2P	1	4443.67	2.50	17295.40	45760.30	3.892

Numero del nucleo n. 1195

Nodi: -3287 -3288 -3289

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		-62177.70	749.39	0.00	-62177.70	3975.32	0.00	5.305
2T	1	SLU		-57268.30	804.86	0.00	-57268.30	3857.68	0.00	4.793
3P	1	SLU		-55292.50	438.88	0.00	-381658.00	3808.00	0.00	6.903

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>
1P	2	SLE	R	-44310.10	552.81	0.00	27.81	343.18
1P	4	SLE	Q	-37875.80	427.08	0.00	22.96	287.27
2T	2	SLE	R	-40785.10	590.50	0.00	27.05	326.79
2T	4	SLE	Q	-34810.80	447.13	0.00	22.07	271.32
3P	2	SLE	R	-39399.00	333.32	0.00	21.90	283.99
3P	4	SLE	Q	-33696.50	243.21	0.00	17.99	237.28

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		950.82	2.50	15313.10	40515.40	16.105
2P	1		123.80	2.50	15313.10	40515.40	123.690

Numero del nucleo n. 1197

Nodi: -3287 -3296 -3302 -3308

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		-71206.30	-151.31	0.00	-429421.00	-4492.54	0.00	6.031
2P	1	SLU		-72246.40	558.75	0.00	-429421.00	4516.99	0.00	5.944
3P	1	SLU		-57737.30	640.33	0.00	-57737.30	4161.71	0.00	6.499

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>
1P	2	SLE	R	-50738.30	-102.56	0.00	19.88	286.09
1P	2	SLE	R	-50738.30	0.00	-1297.96	19.83	296.55
1P	4	SLE	Q	-43391.80	-89.13	0.00	17.03	244.84
2T	2	SLE	R	-50955.80	-481.52	0.00	25.96	332.27
2T	2	SLE	R	-50955.80	0.00	4226.15	23.45	348.78
2T	4	SLE	Q	-43445.20	-404.55	0.00	22.04	282.58
3P	2	SLE	R	-41195.60	453.00	0.00	22.00	276.19
3P	2	SLE	R	-41195.60	0.00	-4000.51	19.67	292.15
3P	4	SLE	Q	-35275.80	370.46	0.00	18.56	234.43

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		7416.99	2.50	17295.40	45760.10	2.332
2P	1		4731.90	2.50	17295.40	45760.10	3.655

Numero del nucleo n. 1203

Relazione di calcolo

Nodi: -3308 -3309 -3310

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	-64868.70	461.32	0.00	-381658.00	4038.60	0.00	5.884
2	T	1	SLU	-64613.30	-2590.37	0.00	-64613.30	-4032.60	0.00	1.557
3	P	1	SLU	-52146.60	3207.47	0.00	-52146.60	3728.76	0.00	1.163

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	-46217.50	348.75	0.00	24.94	327.49
1	P	4	SLE Q	-39495.90	249.77	0.00	20.45	273.41
2	T	2	SLE R	-45986.40	-1796.58	0.00	56.00	531.60
2	T	4	SLE Q	-39113.00	-1423.79	0.00	44.36	436.05
3	P	2	SLE R	-37166.10	2277.92	0.00	77.19	741.86
3	P	4	SLE Q	-31908.70	1742.98	0.00	57.50	432.28

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	1729.01	2.50	15313.10	40515.40	8.857
2	P	1	410.85	2.50	15313.10	40515.40	37.272

Numero del nucleo n. 1287

Nodi: -3976 -3984 -3990 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>
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	-57838.10	-692.30	0.00	-57838.10	-4164.21	0.00	6.015
2	P	1	SLU	-58771.10	251.11	0.00	-429421.00	4187.75	0.00	7.307
3	P	1	SLU	-57626.90	136.40	0.00	-429421.00	4158.85	0.00	7.452

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	-41265.90	-482.89	0.00	22.50	280.11
1	P	2	SLE R	-41265.90	0.00	-3830.05	19.49	289.56
1	P	4	SLE Q	-35337.20	-405.99	0.00	19.15	238.98
2	P	2	SLE R	-41873.70	173.33	0.00	17.81	246.64
2	P	4	SLE Q	-35787.90	149.04	0.00	15.24	210.90
3	P	2	SLE R	-41024.50	0.00	-1834.18	16.98	253.45
3	P	4	SLE Q	-35016.70	0.00	-1429.51	14.33	213.96

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	5535.34	2.50	17295.40	45406.60	3.125
2	T	1	1711.97	2.50	17295.40	45456.20	10.103

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

Relazione di calcolo

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
	1P	1	SLU	-55292.50	438.88	0.00	-381658.00	3808.00	0.00	6.903
	2T	1	SLU	-51864.40	739.23	0.00	-51864.40	3721.67	0.00	5.035
	3P	1	SLU	-50375.50	474.48	0.00	-381658.00	3684.02	0.00	7.576

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 >
	1P	2	SLE R	-39399.00	333.32	0.00	21.90	283.99
	1P	4	SLE Q	-33696.50	243.21	0.00	17.99	237.28
	2T	2	SLE R	-36918.80	543.91	0.00	24.65	297.07
	2T	4	SLE Q	-31504.00	406.27	0.00	20.01	245.76
	3P	2	SLE R	-35866.80	358.29	0.00	20.92	265.86
	3P	4	SLE Q	-30585.80	261.00	0.00	17.04	220.76

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	82.36	2.50	15313.10	40515.40	185.922
	2T	1	185.17	2.50	15313.10	40282.00	82.698

Numero del nucleo n. 1297

Nodi: -3974 -3983 -3989 1186

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	-57737.30	640.33	0.00	-57737.30	4161.71	0.00	6.499
	2P	1	SLU	-58649.70	-187.74	0.00	-429421.00	-4184.72	0.00	7.322
	3P	1	SLU	-57607.10	-199.10	0.00	-429421.00	-4158.39	0.00	7.454

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 >
	1P	2	SLE R	-41195.60	453.00	0.00	22.00	276.19
	1P	2	SLE R	-41195.60	0.00	-4000.51	19.67	292.15
	1P	4	SLE Q	-35275.80	370.46	0.00	18.56	234.43
	2P	2	SLE R	-41787.20	-134.85	0.00	17.17	241.60
	2P	2	SLE R	-41787.20	0.00	-1155.59	16.44	245.74
	2P	4	SLE Q	-35710.50	-106.65	0.00	14.54	205.45
	3P	2	SLE R	-41010.60	-136.74	0.00	16.93	237.64
	3P	2	SLE R	-41010.60	0.00	-1284.15	16.31	243.79
	3P	4	SLE Q	-35013.70	-118.28	0.00	14.47	203.07

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	6126.50	2.50	17295.40	45391.20	2.823
	2P	1	1770.92	2.50	17295.40	45530.00	9.766

Numero del nucleo n. 1303

Nodi: 1186 -3995 1187

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	-52146.60	3207.47	0.00	-52146.60	3728.76	0.00	1.163
	2P	1	SLU	-50897.00	-1504.42	0.00	-50897.00	-3697.16	0.00	2.458
	3P	1	SLU	-52818.60	228.95	0.00	-381658.00	3745.76	0.00	7.226

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	-37166.10	2277.92	0.00	77.19	741.86
1	P	4	SLE Q	-31908.70	1742.98	0.00	57.50	432.28
2	P	2	SLE R	-36268.10	-1081.06	0.00	34.70	367.32
2	P	4	SLE Q	-31037.00	-810.35	0.00	27.16	297.44
3	P	2	SLE R	-37596.60	184.02	0.00	18.51	253.07
3	P	4	SLE Q	-32073.90	109.05	0.00	14.94	209.49

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	58.09	2.50	15313.10	40324.80	263.599
2	P	1	243.48	2.50	15313.10	40135.20	62.892

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	-57626.90	136.40	0.00	-429421.00	4158.85	0.00	7.452
2	T	1	SLU	-57904.80	665.65	0.00	-57904.80	4165.87	0.00	6.258
3	P	1	SLU	-43909.80	-744.35	0.00	-43909.80	-3806.33	0.00	5.114

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	-41024.50	0.00	-1834.18	16.98	253.45
1	P	4	SLE Q	-35016.70	0.00	-1429.51	14.33	213.96
2	T	2	SLE R	-41130.20	470.44	0.00	22.25	277.90
2	T	2	SLE R	-41130.20	0.00	4525.31	20.28	300.95
2	T	4	SLE Q	-34963.20	384.32	0.00	18.67	234.38
3	P	2	SLE R	-31306.10	-519.69	0.00	19.50	230.72
3	P	2	SLE R	-31306.10	0.00	-3938.93	16.03	237.69
3	P	4	SLE Q	-26757.10	-437.52	0.00	16.56	196.40

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	9004.02	2.50	17295.40	45374.50	1.921
2	T	1	5709.26	2.50	17295.40	45416.80	3.029

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	-50375.50	474.48	0.00	-381658.00	3684.02	0.00	7.576
2	T	1	SLU	-45242.20	587.14	0.00	-45242.20	3554.04	0.00	6.053
3	P	1	SLU	-43270.00	194.04	0.00	-381658.00	3503.92	0.00	8.820

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	-35866.80	358.29	0.00	20.92	265.86
1	P	4	SLE Q	-30585.80	261.00	0.00	17.04	220.76
2	T	2	SLE R	-32183.20	436.49	0.00	20.82	253.93
2	T	4	SLE Q	-27392.80	313.89	0.00	16.69	208.43

Relazione di calcolo

3P	2	SLE R	-30798.70	160.18	0.00	15.33	208.58
3P	4	SLE Q	-26280.30	94.02	0.00	12.32	172.27

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	845.74	2.50	15313.10	40056.10	18.106	
2T	1	194.65	2.50	15313.10	39277.20	78.669	

Numero del nucleo n. 1397

Nodi: -4052 -4061 -4067 -4073

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	-57607.10	-199.10	0.00	-429421.00	-4158.39	0.00	7.454	
2T	1	SLU	-58013.00	-737.05	0.00	-58013.00	-4168.64	0.00	5.656	
3P	1	SLU	-43706.80	644.64	0.00	-43706.80	3801.01	0.00	5.896	

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	-41010.60	-136.74	0.00	16.93	237.64	
1P	2	SLE R	-41010.60	0.00	-1284.15	16.31	243.79	
1P	4	SLE Q	-35013.70	-118.28	0.00	14.47	203.07	
2T	2	SLE R	-41207.50	-515.04	0.00	22.99	283.62	
2T	2	SLE R	-41207.50	0.00	4564.86	20.35	302.06	
2T	4	SLE Q	-35049.70	-433.88	0.00	19.48	240.74	
3P	2	SLE R	-31160.60	456.11	0.00	18.44	222.38	
3P	2	SLE R	-31160.60	0.00	-3876.94	15.91	235.82	
3P	4	SLE Q	-26631.40	372.54	0.00	15.48	188.01	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	7285.87	2.50	17295.40	45371.40	2.374	
2T	1	5852.69	2.50	17295.40	45433.10	2.955	

Numero del nucleo n. 1403

Nodi: -4073 -4074 -4075

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	-52818.60	228.95	0.00	-381658.00	3745.76	0.00	7.226	
2T	1	SLU	-52681.80	-3113.67	0.00	-52681.80	-3742.32	0.00	1.202	
3P	1	SLU	-39481.40	3327.39	0.00	-39481.40	3404.42	0.00	1.023	

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	-37596.60	184.02	0.00	18.51	253.07	
1P	4	SLE Q	-32073.90	109.05	0.00	14.94	209.49	
2T	2	SLE R	-37449.60	-2166.70	0.00	72.45	618.29	
2T	4	SLE Q	-31756.40	-1737.87	0.00	57.36	430.53	
3P	2	SLE R	-28109.70	2362.76	0.00	85.09	1272.81	
3P	4	SLE Q	-24112.40	1810.69	0.00	63.98	843.14	

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	920.13	2.50	15313.10	40426.80	16.642
2T	1	337.00	2.50	15313.10	40406.00	45.439

Numero del nucleo n. 1487

Nodi: -4741 -4749 -4755 1387

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		-43909.80	-744.35	0.00	-43909.80	-3806.33	0.00	5.114
2P	1	SLU		-44911.80	272.11	0.00	-429421.00	3832.96	0.00	9.561
3P	1	SLU		-43750.90	137.94	0.00	-429421.00	3802.08	0.00	9.815

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	-31306.10	-519.69	0.00	19.50	230.72
1P	2	SLE	R	-31306.10	0.00	-3938.93	16.03	237.69
1P	4	SLE	Q	-26757.10	-437.52	0.00	16.56	196.40
2P	2	SLE	R	-31962.40	188.07	0.00	14.48	194.88
2P	2	SLE	R	-31962.40	0.00	-1344.32	13.13	195.99
2P	4	SLE	Q	-27250.20	162.21	0.00	12.38	166.37
3P	2	SLE	R	-31100.80	0.00	-1588.34	13.12	195.59
3P	4	SLE	Q	-26468.30	0.00	-1211.31	10.99	164.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		5314.67	2.50	17295.40	43287.80	3.254
2P	1		2631.49	2.50	17295.40	43440.30	6.572

Numero del nucleo n. 1495

Nodi: -4739 -4740 -4741

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		-43270.00	194.04	0.00	-381658.00	3503.92	0.00	8.820
2T	1	SLU		-39699.90	560.84	0.00	-39699.90	3410.23	0.00	6.081
3P	1	SLU		-38143.10	275.12	0.00	-381658.00	3368.98	0.00	10.006

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	-30798.70	160.18	0.00	15.33	208.58
1P	4	SLE	Q	-26280.30	94.02	0.00	12.32	172.27
2T	2	SLE	R	-28217.30	417.51	0.00	18.87	227.29
2T	4	SLE	Q	-24002.10	295.69	0.00	14.99	185.39
3P	2	SLE	R	-27116.90	217.06	0.00	14.86	193.81
3P	4	SLE	Q	-23044.80	137.88	0.00	11.79	158.48

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		377.01	2.50	15313.10	38977.90	40.617
2T	1		157.01	2.50	15313.10	38436.20	97.531

Numero del nucleo n. 1497

Nodi: -4739 -4748 -4754 1386

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	-43706.80	644.64	0.00	-43706.80	3801.01	0.00	5.896
2	P	1	SLU	-44649.60	-188.08	0.00	-429421.00	-3826.06	0.00	9.618
3	P	1	SLU	-43558.40	-204.06	0.00	-429421.00	-3797.02	0.00	9.859

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	-31160.60	456.11	0.00	18.44	222.38
1	P	2	SLE R	-31160.60	0.00	-3876.94	15.91	235.82
1	P	4	SLE Q	-26631.40	372.54	0.00	15.48	188.01
2	P	2	SLE R	-31774.00	-135.22	0.00	13.58	187.59
2	P	2	SLE R	-31774.00	0.00	-1450.50	13.19	196.83
2	P	4	SLE Q	-27082.90	-106.16	0.00	11.43	158.81
3	P	2	SLE R	-30963.60	-140.08	0.00	13.36	183.79
3	P	2	SLE R	-30963.60	0.00	-1362.02	12.79	190.91
3	P	4	SLE Q	-26358.00	-121.90	0.00	11.42	156.77

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	5240.80	2.50	17295.40	43256.90	3.300
2	P	1	2648.02	2.50	17295.40	43400.30	6.531

Numero del nucleo n. 1503

Nodi: 1386 -4760 1387

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	-39481.40	3327.39	0.00	-39481.40	3404.42	0.00	1.023
2	P	1	SLU	-38274.20	-1465.64	0.00	-38274.20	-3372.43	0.00	2.301
3	P	1	SLU	-40329.20	88.57	0.00	-381658.00	3426.98	0.00	9.464

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	-28109.70	2362.76	0.00	85.09	1272.81
1	P	4	SLE Q	-24112.40	1810.69	0.00	63.98	843.14
2	P	2	SLE R	-27242.60	-1053.68	0.00	32.83	313.30
2	P	4	SLE Q	-23267.20	-783.59	0.00	24.57	249.50
3	P	2	SLE R	-28665.80	84.72	0.00	13.12	185.53
3	P	4	SLE Q	-24382.00	21.65	0.00	10.26	151.06

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	4.85	2.50	15313.10	38403.00	*****
2	T	1	173.07	2.50	15313.10	38138.10	88.477

Numero del nucleo n. 1587

Nodi: -4819 -4827 -4833 -4840

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	-43750.90	137.94	0.00	-429421.00	3802.08	0.00	9.815
2T		1	SLU	-44093.70	698.52	0.00	-44093.70	3811.13	0.00	5.456
3P		1	SLU	-29561.20	-760.23	0.00	-29561.20	-3422.50	0.00	4.502

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	-31100.80	0.00	-1588.34	13.12	195.59
1P		4	SLE Q	-26468.30	0.00	-1211.31	10.99	164.01
2T		2	SLE R	-31252.20	493.89	0.00	19.07	227.36
2T		2	SLE R	-31252.20	0.00	4870.20	17.14	253.63
2T		4	SLE Q	-26453.20	403.59	0.00	15.91	190.73
3P		2	SLE R	-21047.10	-531.07	0.00	16.03	176.85
3P		2	SLE R	-21047.10	0.00	-4035.07	12.46	183.98
3P		4	SLE Q	-17919.70	-448.27	0.00	13.58	150.09

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	8102.22	2.50	17295.40	43263.70	2.135
2P		1	6666.58	2.50	17295.40	43408.20	2.594

Numero del nucleo n. 1595

Nodi: -4817 -4818 -4819

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	-38143.10	275.12	0.00	-381658.00	3368.98	0.00	10.006
2T		1	SLU	-32813.50	447.98	0.00	-32813.50	3226.86	0.00	7.203
3P		1	SLU	-30839.80	29.64	0.00	-381658.00	3174.08	0.00	12.376

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	-27116.90	217.06	0.00	14.86	193.81
1P		4	SLE Q	-23044.80	137.88	0.00	11.79	158.48
2T		2	SLE R	-23293.70	337.17	0.00	15.45	186.63
2T		4	SLE Q	-19735.70	226.51	0.00	12.03	150.22
3P		2	SLE R	-21908.30	43.00	0.00	9.64	138.88
3P		4	SLE Q	-18605.90	0.00	-199.62	7.84	117.46

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	254.88	2.50	20417.40	38200.00	80.106
2P		1	118.72	2.50	20417.40	37473.10	171.983

Numero del nucleo n. 1597

Nodi: -4817 -4826 -4832 -4838

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	-43558.40	-204.06	0.00	-429421.00	-3797.02	0.00	9.859
2T		1	SLU	-43997.50	-743.84	0.00	-43997.50	-3808.70	0.00	5.120
3P		1	SLU	-29426.60	666.24	0.00	-29426.60	3418.96	0.00	5.132

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	-30963.60	-140.08	0.00	13.36	183.79
1P	2	SLE	R	-30963.60	0.00	-1362.02	12.79	190.91
1P	4	SLE	Q	-26358.00	-121.90	0.00	11.42	156.77
2T	2	SLE	R	-31184.20	-519.75	0.00	19.45	230.07
2T	2	SLE	R	-31184.20	0.00	4802.14	17.03	252.08
2T	4	SLE	Q	-26413.90	-438.65	0.00	16.45	194.69
3P	2	SLE	R	-20947.10	471.50	0.00	15.00	169.07
3P	2	SLE	R	-20947.10	0.00	-3756.71	12.08	178.59
3P	4	SLE	Q	-17829.60	384.95	0.00	12.51	141.97

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		7479.56	2.50	17295.40	43234.30	2.312
2P	1		6668.06	2.50	17295.40	43393.50	2.594

Numero del nucleo n. 1687

Nodi: -5506 -5514 -5520 1587

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		-29561.20	-760.23	0.00	-29561.20	-3422.50	0.00	4.502
2P	1	SLU		-30639.00	266.77	0.00	-30639.00	3451.47	0.00	12.938
3P	1	SLU		-29477.80	156.39	0.00	-429421.00	3420.23	0.00	14.568

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	-21047.10	-531.07	0.00	16.03	176.85
1P	2	SLE	R	-21047.10	0.00	-4035.07	12.46	183.98
1P	4	SLE	Q	-17919.70	-448.27	0.00	13.58	150.09
2P	2	SLE	R	-21758.70	184.36	0.00	10.75	139.36
2P	2	SLE	R	-21758.70	0.00	-1605.69	9.77	145.46
2P	4	SLE	Q	-18460.20	159.99	0.00	9.18	118.66
3P	2	SLE	R	-20898.70	113.37	0.00	9.32	126.28
3P	2	SLE	R	-20898.70	0.00	-1387.27	9.20	137.01
3P	4	SLE	Q	-17681.30	88.37	0.00	7.76	105.95

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		5214.14	2.50	17295.40	41105.10	3.317
2P	1		3347.21	2.50	17295.40	41269.10	5.167

Numero del nucleo n. 1695

Nodi: -5504 -5505 -5506

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		-30839.80	29.64	0.00	-381658.00	3174.08	0.00	12.376
2T	1	SLU		-27154.50	474.58	0.00	-27154.50	3075.18	0.00	6.480
3P	1	SLU		-25594.80	159.76	0.00	-381658.00	3033.13	0.00	14.912

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 >
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Relazione di calcolo

1P	2SLE R	-21908.30	43.00	0.00	9.64	138.88
1P	4SLE Q	-18605.90	0.00	-199.62	7.84	117.46
2T	2SLE R	-19244.70	354.33	0.00	14.11	164.32
2T	4SLE Q	-16237.20	235.99	0.00	10.78	130.22
3P	2SLE R	-18140.80	133.43	0.00	9.73	128.08
3P	4SLE Q	-15255.10	61.53	0.00	7.28	100.93

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	587.83	2.50	15313.10	37091.80	26.050	
2P	1	64.10	2.50	15313.10	36614.40	238.907	

Numero del nucleo n. 1697

Nodi: -5504 -5513 -5519 1586

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-29426.60	666.24	0.00	-29426.60	3418.96	0.00	5.132	
2P	1	SLU	-30389.50	-204.84	0.00	-429421.00	-3444.85	0.00	14.131	
3P	1	SLU	-29242.60	-196.04	0.00	-429421.00	-3413.95	0.00	14.685	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _t <daN/cm²>
1P	2	SLE R	-20947.10	471.50	0.00	15.00	169.07	
1P	2	SLE R	-20947.10	0.00	-3756.71	12.08	178.59	
1P	4	SLE Q	-17829.60	384.95	0.00	12.51	141.97	
2P	2	SLE R	-21573.00	-147.22	0.00	10.10	133.95	
2P	2	SLE R	-21573.00	0.00	-1660.26	9.77	145.41	
2P	4	SLE Q	-18289.70	-115.88	0.00	8.42	112.50	
3P	2	SLE R	-20721.60	-134.17	0.00	9.58	127.80	
3P	2	SLE R	-20721.60	0.00	-1359.64	9.10	135.57	
3P	4	SLE Q	-17529.60	-117.06	0.00	8.16	108.54	

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	4523.37	2.50	17295.40	41084.50	3.824	
2T	1	3315.77	2.50	17295.40	41138.60	5.216	

Numero del nucleo n. 1787

Nodi: -5585 -5593 -5599 -5606

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU	-29477.80	156.39	0.00	-429421.00	3420.23	0.00	14.568	
2T	1	SLU	-29909.90	731.38	0.00	-29909.90	3431.87	0.00	4.692	
3P	1	SLU	-15003.20	-717.94	0.00	-15003.20	-3023.74	0.00	4.212	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _t <daN/cm²>
1P	2	SLE R	-20898.70	113.37	0.00	9.32	126.28	
1P	2	SLE R	-20898.70	0.00	-1387.27	9.20	137.01	
1P	4	SLE Q	-17681.30	88.37	0.00	7.76	105.95	
2T	2	SLE R	-21115.00	517.31	0.00	15.81	175.50	
2T	2	SLE R	-21115.00	0.00	5061.96	13.72	202.25	
2T	4	SLE Q	-17720.20	423.09	0.00	13.08	145.93	

Relazione di calcolo

3P	2	SLE R	-10645.00	-501.52	0.00	14.23	120.09
3P	4	SLE Q	-8970.78	-425.45	0.00	12.09	101.52

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}	W _k <mm>
3P	4	SLE Q		-8970.78	0.00	-3633.17	31.00	70.00	0.50	8.00	159.48	1.01	122.50	21.57	0.01	0.00
3P	3	SLE F		-9410.61	0.00	-3892.69	31.00	70.00	0.50	8.00	159.48	1.01	122.50	25.33	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		7322.08	2.50	17295.40	41092.40	2.362
2P	1		7351.99	2.50	17295.40	41250.60	2.352

Numero del nucleo n. 1795

Nodi: -5583 -5584 -5585

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/presoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-25594.80	159.76	0.00	-381658.00	3033.13	0.00	14.912
2T	1	SLU		-20129.90	453.55	0.00	-20129.90	2884.51	0.00	6.360
3P	1	SLU		-17694.40	-0.59	0.00	-381658.00	-2817.58	0.00	21.570

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		-18140.80	133.43	0.00	9.73	128.08
1P	4	SLE Q		-15255.10	61.53	0.00	7.28	100.93
2T	2	SLE R		-14219.70	336.00	0.00	11.75	131.35
2T	4	SLE Q		-11826.90	208.50	0.00	8.51	99.75
3P	2	SLE R		-12512.40	0.00	-335.50	5.58	83.42
3P	4	SLE Q		-10483.50	-48.12	0.00	5.10	70.14

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		137.48	2.50	15313.10	36296.00	111.384
2T	1		40.28	2.50	15313.10	35466.80	380.195

Numero del nucleo n. 1797

Nodi: -5583 -5592 -5598 -5604

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/presoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1P	1	SLU		-29242.60	-196.04	0.00	-429421.00	-3413.95	0.00	14.685
2T	1	SLU		-29729.40	-750.28	0.00	-29729.40	-3427.09	0.00	4.568
3P	1	SLU		-14908.20	635.44	0.00	-14908.20	3021.21	0.00	4.755

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		-20721.60	-134.17	0.00	9.58	127.80
1P	2	SLE R		-20721.60	0.00	-1359.64	9.10	135.57
1P	4	SLE Q		-17529.60	-117.06	0.00	8.16	108.54
2T	2	SLE R		-20972.50	-523.65	0.00	15.87	175.53
2T	2	SLE R		-20972.50	0.00	4882.32	13.46	198.35
2T	4	SLE Q		-17606.70	-441.19	0.00	13.35	147.56
3P	2	SLE R		-10559.00	451.62	0.00	12.61	113.58

Relazione di calcolo

3P	4SLE Q	-8883.52	370.11	0.00	10.30	94.29
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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>
3P		4SLE Q		-8883.52	0.00	-3122.93	31.00	70.00	0.50	8.00	120.79	1.01	73.88	8.01	0.00	0.00
3P		3SLE F		-9319.56	0.00	-3366.25	31.00	70.00	0.50	8.00	130.96	1.01	86.66	10.63	0.00	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	7321.38	2.50	17295.40	41056.50	2.362
2P		1	7204.30	2.50	17295.40	41223.00	2.401

Numero del nucleo n. 1887

Nodi: -6272 -6280 -6286 1787

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		-15003.20	-717.94	0.00	-15003.20	-3023.74	0.00	4.212
2P		1SLU		-16368.10	0.00	-2374.78	-16368.10	0.00	-43474.70	18.307
3P		1SLU		-15247.00	408.85	0.00	-15247.00	3030.50	0.00	7.412

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		2SLE R		-10645.00	-501.52	0.00	14.23	120.09
1P		4SLE Q		-8970.78	-425.45	0.00	12.09	101.52
2P		2SLE R		-11556.80	0.00	-1649.65	6.16	91.15
2P		4SLE Q		-9678.58	0.00	-1468.60	5.26	77.86
3P		2SLE R		-10725.50	286.65	0.00	8.46	92.15
3P		4SLE Q		-8941.38	225.69	0.00	6.81	75.14

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>	ε _{sm}	Wk <mm>
1P		4SLE Q		-8970.78	0.00	-3633.17	31.00	70.00	0.50	8.00	159.48	1.01	122.50	21.57	0.01	0.00
1P		3SLE F		-9410.61	0.00	-3892.69	31.00	70.00	0.50	8.00	159.48	1.01	122.50	25.33	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P		1	7159.64	2.50	17295.40	38890.50	2.416
2P		1	4243.86	2.50	17295.40	39098.20	4.075

Numero del nucleo n. 1895

Nodi: -6270 -6271 -6272

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		-17694.40	-0.59	0.00	-381658.00	-2817.58	0.00	21.570
2T		1SLU		-13062.10	488.54	0.00	-13062.10	2690.00	0.00	5.506
3P		1SLU		-10519.90	157.57	0.00	-10519.90	2619.55	0.00	16.624

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		2SLE R		-12512.40	0.00	-335.50	5.58	83.42

Relazione di calcolo

1P	4	SLE Q	-10483.50	-48.12	0.00	5.10	70.14
2T	2	SLE R	-9187.32	354.84	0.00	11.06	105.58
2T	4	SLE Q	-7627.58	227.40	0.00	7.30	77.26
3P	2	SLE R	-7405.44	121.96	0.00	5.17	61.31
3P	4	SLE Q	-6154.92	44.73	0.00	3.29	43.38

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	1089.32	2.50	17500.70	35097.20	16.066	
2T	1	16.35	2.50	17500.70	34394.30	*****	

Numero del nucleo n. 1897

Nodi: -6270 -6279 -6285 1786

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Fcm	Fctm	Fcd	Fcd (Tag)	Fctd	Fym	Fyd	Fyd (Tag)
<cm>	<cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>	<daN/cm>
14.00	3.50	204.50	16.12	144.85	96.57	8.95	4300.00	3583.33	3115.94

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy, r <daNm>	MRdz, r <daNm>	Sic.
1	P	1	SLU	-14908.20	635.44	0.00	-14908.20	3021.21	0.00	4.755
2	P	1	SLU	-15965.40	0.00	-2417.50	-15965.40	0.00	-43316.10	17.918
3	P	1	SLU	-14564.00	-427.35	0.00	-14564.00	-3011.68	0.00	7.047

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm>	σ _f <daN/cm>
1	P	2	SLE R	-10559.00	451.62	0.00	12.61	113.58
1	P	4	SLE Q	-8883.52	370.11	0.00	10.30	94.29
2	P	2	SLE R	-11244.70	0.00	-1677.28	6.08	89.95
2	P	4	SLE Q	-9381.55	0.00	-1488.93	5.18	76.61
3	P	2	SLE R	-10211.90	-291.64	0.00	8.42	90.18
3	P	4	SLE Q	-8472.04	-238.04	0.00	6.90	74.30

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>
1P	4	SLE Q	-8883.52	0.00	-3122.93	31.00	70.00	0.50	8.00	120.79	1.01	73.88	8.01	0.00	0.00	0.00
1P	3	SLE F	-9319.56	0.00	-3366.25	31.00	70.00	0.50	8.00	130.96	1.01	86.66	10.63	0.00	0.00	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	5575.76	2.50	17295.40	38876.00	3.102	
2P	1	4076.42	2.50	17295.40	39036.80	4.243	

Numero del nucleo n. 1987

Nodi: -6350 -6358 -6364 -6371

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	-15247.00	408.85	0.00	-15247.00	3030.50	0.00	7.412
2T		1	SLU	-16660.90	1317.29	0.00	-16660.90	3069.53	0.00	2.330

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cm>
1P	2	SLE R	-10725.50	286.65	0.00	8.46	92.15	
1P	4	SLE Q	-8941.38	225.69	0.00	6.81	75.14	
2T	2	SLE R	-11601.80	917.34	0.00	29.10	409.24	
2T	2	SLE R	-11601.80	0.00	10017.20	22.53	410.24	
2T	4	SLE Q	-9521.43	742.48	0.00	23.50	325.22	

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}	W _k <mm>
	2T		4SLE Q	-9521.43	0.00	8268.05	31.00	95.00	0.50	8.00	177.45	2.01	290.14	341.31	0.10	0.03
	2T		3SLE F	-10069.80	0.00	8730.13	31.00	95.00	0.50	8.00	177.35	2.01	289.89	359.58	0.10	0.03

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 12767.70	2.50	17295.40	38927.60	1.355
	2P		1 13620.20	2.50	17295.40	39235.10	1.270

Numero del nucleo n. 1995

Nodi: -6348 -6349 -6350

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	-10519.90	157.57	0.00	-10519.90	2127.65	0.00	13.503
	2T		1SLU	-3534.57	249.59	0.00	-3534.57	1925.88	0.00	7.716

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	-7405.44	121.96	0.00	5.32	63.12
	1P		4SLE Q	-6154.92	44.73	0.00	3.39	44.71
	2T		2SLE R	-2425.70	176.78	0.00	6.79	100.92
	2T		4SLE Q	-1982.48	131.21	0.00	4.90	62.74

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P		1 1103.93	2.50	20417.40	34008.60	18.495
	2T		1 69.50	2.50	20417.40	32948.70	293.777

Numero del nucleo n. 1997

Nodi: -6348 -6357 -6363 -6369

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	-14564.00	-427.35	0.00	-14564.00	-2422.13	0.00	5.668
	2T		1SLU	-15827.60	-1219.96	0.00	-15827.60	-2458.33	0.00	2.015

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	-10211.90	-291.64	0.00	8.66	92.91
	1P		4SLE Q	-8472.04	-238.04	0.00	7.10	76.56
	2T		2SLE R	-10981.90	-843.64	0.00	29.46	478.22
	2T		4SLE Q	-8964.25	-680.73	0.00	23.70	379.06

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>	ε _{sm}	W _k <mm>
	2T		4SLE Q	-8964.25	0.00	7694.85	31.00	142.50	0.50	8.00	223.36	1.51	304.16	386.71	0.11	0.04
	2T		3SLE F	-9485.12	0.00	8126.46	31.00	142.50	0.50	8.00	223.19	1.51	303.83	407.14	0.12	0.04

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
	1P	1	10447.00	2.50	17295.40	38823.60	1.656
	2P	1	12811.10	2.50	17295.40	39108.20	1.350

Verifiche aste in acciaio

Simbologia

Φ_{LT}		=	Coefficiente Φ per stabilità laterale membrature inflesse
α_{imp}		=	Coefficiente di imperfezione
β_{LT}		=	Coefficiente per calcolo Φ_{LT}
χ_{LT}		=	Coefficiente di riduzione per stabilità laterale membrature inflesse
λ_{LT}		=	Coefficiente di imperfezione per stabilità laterale membrature inflesse
$\lambda_{LT,0}$		=	Coefficiente di imperfezione di confronto per stabilità laterale membrature inflesse
ψ		=	Coeff. di correzione momento critico per stabilità laterale membrature inflesse
A _{eff}	<cmq>	=	Area effettiva per trazione
A _{net}	<cmq>	=	Area netta per compressione
A _{area}	<cmq>	=	Area
A _{tag,y}	<cmq>	=	Area resistente a taglio in dir. Y
A _{tag,z}	<cmq>	=	Area resistente a taglio in dir. Z
CC		=	Numero della combinazione delle condizioni di carico elementari
Cod.		=	Codice
D	<cm>	=	Distanza
F _{yk}	<daN/cm>	=	Tensione caratteristica di snervamento dell'acciaio
F _{yt}	<daN/cm>	=	Tensione caratteristica di rottura
I _y	<cm>	=	Raggio giratorio d'inerzia rispetto all'asse Y
I _z	<cm>	=	Raggio giratorio d'inerzia rispetto all'asse Z
J ₀	<cm6>	=	Costante di ingobbamento
J _y	<cm4>	=	Momento d'inerzia rispetto all'asse Y
J _z	<cm4>	=	Momento d'inerzia rispetto all'asse Z
L _{cr}	<m>	=	Lunghezza di libera inflessione laterale fra ritegni torsionali
M _{cr}	<daNm>	=	Momento critico per instabilità flessione torsionale
M _y	<daNm>	=	Momento flettente intorno all'asse Y
M _{y,Ed}	<daNm>	=	Momento flettente di calcolo intorno all'asse Y
M _{y,V,c,Rd}	<daNm>	=	Resistenza di calcolo a flessione ridotta per taglio intorno all'asse Y
M _{y,b,Rd}	<daNm>	=	Resistenza di calcolo a flessione ridotta per stabilità laterale membrature inflesse
M _{y,c,Rd}	<daNm>	=	Resistenza di calcolo a flessione intorno all'asse Y
Sez.		=	Numero della sezione
Tipo		=	Tipologia
			2I = Doppia I
			L = Sezione a L
			Ldx = L destra
			R = Rettangolare
			Rc = Rettangolare cava
			T = Sezione a T
Tp		=	Tipo di acciaio
Tz	<daN>	=	Taglio in dir. Z
V _{Ed}	<daN>	=	Forza di taglio di calcolo
V _{c,Rd}	<daN>	=	Resistenza a taglio
W _{y,plas}	<cm>	=	Modulo di resistenza plastico intorno all'asse Y
W _{ymin}	<cm>	=	Modulo di resistenza minimo rispetto all'asse Y
W _{z,plas}	<cm>	=	Modulo di resistenza plastico intorno all'asse Z
W _{zmin}	<cm>	=	Modulo di resistenza minimo rispetto all'asse Z
X _l	<m>	=	Coordinata progressiva (dal nodo iniziale dell'asta) in cui viene effettuato il progetto/verifica
f		=	Fattore di modifica per il coefficiente di riduzione
f _{z,g}	<cm>	=	Freccia in direzione Z globale
f _{z,l}	<cm>	=	Freccia in direzione Z locale
k _c		=	Coeff. di correzione momento flettente per stabilità laterale membrature inflesse

Caratteristiche profilati utilizzati

Sez.	Cod.	Tipo	D <cm>	Area <cmq>	A _{net} <cmq>	A _{eff} <cmq>	J _y <cm4>	J _z <cm4>	I _y <cm>	I _z <cm>	W _{ymin} <cm>	W _{zmin} <cm>	Tp	F _{yk} <daN/cm>	F _{yt} <daN/cm>
55NTr.	2xIPE200	2I	40.00	56.97	56.97	56.97	3886.45	35890.80	8.26	25.10	388.64	1196.36	S235 UNI EN 10025-2	2350.00	3600.00

Caratteristiche profilati utilizzati

Sez.	Cod.	W _{y,plas} <cm>	W _{z,plas} <cm>	A _{tag,y} <cmq>	A _{tag,z} <cmq>	J ₀ <cm6>
55NTr.	2xIPE200	443.29	0.00	39.16	28.00	12988.10

Asta n. 3007 (321 322) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU X_l=0.20 - Classe 1
Sollecitazioni: T_z=8341.50
V_{Ed}=8341.50 V_{c,Rd}=36184.00 V_{Ed/Vc,Rd}=0.23

- Verifica a flessione YY [4.2.12] - CC 1 SLU X_l=1.67 - Classe 1
Sollecitazioni: M_y=-6110.15
M_{y,Ed}=-6110.15 M_{y,c,Rd}=9921.19 M_{y,Ed/My,c,Rd}=0.62

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
L_{cr}=1.61 Curva b: α_{imp} =0.34 k_c=0.94 ψ =1.75 M_{cr}=23014.20 λ_{LT} =0.48
 $\lambda_{LT,0}$ =0.40 β_{LT} =0.75 Φ_{LT} =0.60 β_{LT} =0.75 f=0.98 χ_{LT} =0.99
M_{y,Ed}=-6110.15 M_{y,b,Rd}=9858.06 M_{y,Ed/My,b,Rd}=0.62

- Verifica freccia massima per soli carichi accidentali - CC 2
f_{z,l}=0.13 (L/2327)

- Verifica freccia massima carichi totali - CC 2
f_{z,l}=0.47 (L/628)

Relazione di calcolo

Asta n. 3007 (322 385) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.20$ - Classe 1

Sollecitazioni: $T_z=7421.93$

$V, Ed=7421.93$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.50$ - Classe 1

Sollecitazioni: $M_y=-4837.24$

$M_y, Ed=-4837.24$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.49$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1

$L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$

$\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$

$M_y, Ed=-4837.24$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.49$

- Verifica freccia massima per soli carichi accidentali - CC 2

$f_{z,L}=0.09$ (L/3277)

- Verifica freccia massima carichi totali - CC 2

$f_{z,L}=0.35$ (L/865)

Asta n. 3007 (385 386) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.00$ - Classe 1

Sollecitazioni: $T_z=6615.64$

$V, Ed=6615.64$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.18$

- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1

Sollecitazioni: $T_z=6615.64$ $M_y=3667.39$

$M_y, Ed=3667.39$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.37$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1

$L_{cr}=0.34$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=444015.00$ $\lambda_{LT}=0.11$

$\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$

$M_y, Ed=3667.39$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.37$

- Verifica freccia massima per soli carichi accidentali - CC 2

$f_{z,L}=0.00$ (L/20072)

- Verifica freccia massima carichi totali - CC 2

$f_{z,G}=0.01$ (L/5292)

Asta n. 5007 (521 522) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.20$ - Classe 1

Sollecitazioni: $T_z=8341.50$

$V, Ed=8341.50$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.23$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.67$ - Classe 1

Sollecitazioni: $M_y=-6110.15$

$M_y, Ed=-6110.15$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.62$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1

$L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$

$\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$

$M_y, Ed=-6110.15$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.62$

- Verifica freccia massima per soli carichi accidentali - CC 2

$f_{z,L}=0.13$ (L/2329)

- Verifica freccia massima carichi totali - CC 2

$f_{z,L}=0.47$ (L/629)

Asta n. 5007 (522 585) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.20$ - Classe 1

Sollecitazioni: $T_z=7456.00$

$V, Ed=7456.00$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.51$ - Classe 1

Sollecitazioni: $M_y=-4881.75$

$M_y, Ed=-4881.75$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.49$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1

$L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$

$\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$

Relazione di calcolo

My,Ed=-4881.75 My,b,Rd=9858.06 My,Ed/My,b,Rd=0.50
- Verifica freccia massima per soli carichi accidentali - CC 2 f _{z,L} =0.09 (L/3220)
- Verifica freccia massima carichi totali - CC 2 f _{z,L} =0.36 (L/852)
Asta n. 5007 (585 586) - Sez. 55 (NTr. 2xIPE200) - Crit. 1
L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU Xl=0.67 - Classe 1 Sollecitazioni: T _z =4571.07 V,Ed=4571.07 Vc,Rd=36184.00 V,Ed/Vc,Rd=0.13
- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU Xl=0.00 - Classe 1 Sollecitazioni: T _z =6854.91 M _y =3827.70 My,Ed=3827.70 My,V,c,Rd=9921.19 My,Ed/My,V,c,Rd=0.39
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1 L _{cr} =0.34 Curva b: α _{imp} =0.34 k _c =0.94 ψ=1.75 M _{cr} =444015.00 λ _{LT} =0.11 λ _{LT,0} =0.40 β _{LT} =0.75 Φ _{LT} =0.45 β _{LT} =0.75 f=1.00 χ _{LT} =1.00 My,Ed=3827.70 My,b,Rd=9921.19 My,Ed/My,b,Rd=0.39
- Verifica freccia massima per soli carichi accidentali - CC 2 f _{z,L} =0.00 (L/18987)
- Verifica freccia massima carichi totali - CC 2 f _{z,L} =0.01 (L/5072)
Asta n. 7007 (721 722) - Sez. 55 (NTr. 2xIPE200) - Crit. 1
L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU Xl=0.10 - Classe 1 Sollecitazioni: T _z =8626.19 V,Ed=8626.19 Vc,Rd=36184.00 V,Ed/Vc,Rd=0.24
- Verifica a flessione YY [4.2.12] - CC 1 SLU Xl=1.61 - Classe 1 Sollecitazioni: M _y =-6534.34 My,Ed=-6534.34 My,c,Rd=9921.19 My,Ed/My,c,Rd=0.66
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1 L _{cr} =1.61 Curva b: α _{imp} =0.34 k _c =0.94 ψ=1.75 M _{cr} =23014.20 λ _{LT} =0.48 λ _{LT,0} =0.40 β _{LT} =0.75 Φ _{LT} =0.60 β _{LT} =0.75 f=0.98 χ _{LT} =0.99 My,Ed=-6534.34 My,b,Rd=9858.06 My,Ed/My,b,Rd=0.66
- Verifica freccia massima per soli carichi accidentali - CC 2 f _{z,L} =0.14 (L/2101)
- Verifica freccia massima carichi totali - CC 2 f _{z,L} =0.53 (L/568)
Asta n. 7007 (722 785) - Sez. 55 (NTr. 2xIPE200) - Crit. 1
L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU Xl=0.20 - Classe 1 Sollecitazioni: T _z =7463.78 V,Ed=7463.78 Vc,Rd=36184.00 V,Ed/Vc,Rd=0.21
- Verifica a flessione YY [4.2.12] - CC 1 SLU Xl=1.51 - Classe 1 Sollecitazioni: M _y =-4891.94 My,Ed=-4891.94 My,c,Rd=9921.19 My,Ed/My,c,Rd=0.49
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1 L _{cr} =1.61 Curva b: α _{imp} =0.34 k _c =0.94 ψ=1.75 M _{cr} =23014.20 λ _{LT} =0.48 λ _{LT,0} =0.40 β _{LT} =0.75 Φ _{LT} =0.60 β _{LT} =0.75 f=0.98 χ _{LT} =0.99 My,Ed=-4891.94 My,b,Rd=9858.06 My,Ed/My,b,Rd=0.50
- Verifica freccia massima per soli carichi accidentali - CC 2 f _{z,L} =0.09 (L/3215)
- Verifica freccia massima carichi totali - CC 2 f _{z,L} =0.36 (L/848)
Asta n. 7007 (785 786) - Sez. 55 (NTr. 2xIPE200) - Crit. 1
L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU Xl=0.67 - Classe 1 Sollecitazioni: T _z =4699.32 V,Ed=4699.32 Vc,Rd=36184.00 V,Ed/Vc,Rd=0.13

Relazione di calcolo

- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=6983.16$ $M_y=3913.63$
 $M_y, Ed=3913.63$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.39$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.34$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=444015.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=3913.63$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.39$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/18987)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.01$ (L/4947)
- Asta n. 9007 (921 922) - Sez. 55 (NTr. 2xIPE200) - Crit. 1
-
- L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8626.19$
 $V, Ed=8626.19$ $V, c, Rd=36184.00$ $V, Ed/V, c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.61$ - Classe 1
Sollecitazioni: $M_y=-6534.34$
 $M_y, Ed=-6534.34$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.66$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6534.34$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.66$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.14$ (L/2101)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.53$ (L/568)
- Asta n. 9007 (922 985) - Sez. 55 (NTr. 2xIPE200) - Crit. 1
-
- L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.20$ - Classe 1
Sollecitazioni: $T_z=7469.04$
 $V, Ed=7469.04$ $V, c, Rd=36184.00$ $V, Ed/V, c, Rd=0.21$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.51$ - Classe 1
Sollecitazioni: $M_y=-4898.84$
 $M_y, Ed=-4898.84$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.49$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4898.84$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.50$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.09$ (L/3219)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.36$ (L/845)
- Asta n. 9007 (985 986) - Sez. 55 (NTr. 2xIPE200) - Crit. 1
-
- L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.67$ - Classe 1
Sollecitazioni: $T_z=4802.07$
 $V, Ed=4802.07$ $V, c, Rd=36184.00$ $V, Ed/V, c, Rd=0.13$
- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=7085.91$ $M_y=3982.47$
 $M_y, Ed=3982.47$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.40$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.34$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=444015.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=3982.47$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.40$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/18488)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.01$ (L/4878)

Relazione di calcolo

Asta n. 11007 (1121 1122) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8768.53$
 $V, Ed=8768.53$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.64$ - Classe 1
Sollecitazioni: $M_y=-6751.77$
 $M_y, Ed=-6751.77$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.68$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6751.77$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.68$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.15$ (L/2003)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.57$ (L/541)

Asta n. 11007 (1122 1185) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.20$ - Classe 1
Sollecitazioni: $T_z=7482.24$
 $V, Ed=7482.24$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.51$ - Classe 1
Sollecitazioni: $M_y=-4916.16$
 $M_y, Ed=-4916.16$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.50$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4916.16$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.50$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.09$ (L/3202)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.36$ (L/839)

Asta n. 11007 (1185 1186) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.67$ - Classe 1
Sollecitazioni: $T_z=4930.23$
 $V, Ed=4930.23$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.14$

- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=7214.06$ $M_y=4068.34$
 $M_y, Ed=4068.34$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.41$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.34$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=444015.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=4068.34$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.41$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/17563)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.01$ (L/4715)

Asta n. 13007 (1321 1322) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8768.53$
 $V, Ed=8768.53$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.64$ - Classe 1
Sollecitazioni: $M_y=-6751.77$
 $M_y, Ed=-6751.77$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.68$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$

Relazione di calcolo

$\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6751.77$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.68$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.15$ (L/2003)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.57$ (L/540)

Asta n. 13007 (1322 1385) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.20$ - Classe 1
Sollecitazioni: $T_z=7486.61$
 $V, Ed=7486.61$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.51$ - Classe 1
Sollecitazioni: $M_y=-4921.92$
 $M_y, Ed=-4921.92$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.50$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4921.92$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.50$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.09$ (L/3196)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.36$ (L/836)

Asta n. 13007 (1385 1386) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.67$ - Classe 1
Sollecitazioni: $T_z=5037.71$
 $V, Ed=5037.71$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.14$
- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=7321.54$ $M_y=4140.35$
 $M_y, Ed=4140.35$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.42$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.34$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=444015.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=4140.35$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.42$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/17563)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.01$ (L/4683)

Asta n. 15007 (1521 1522) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8768.53$
 $V, Ed=8768.53$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.64$ - Classe 1
Sollecitazioni: $M_y=-6751.77$
 $M_y, Ed=-6751.77$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.68$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6751.77$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.68$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.15$ (L/2001)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.57$ (L/540)

Asta n. 15007 (1522 1585) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.20$ - Classe 1
Sollecitazioni: $T_z=7486.76$
 $V, Ed=7486.76$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$

Relazione di calcolo

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.51$ - Classe 1
Sollecitazioni: $M_y=-4922.11$
 $M_y, Ed=-4922.11$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.50$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4922.11$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.50$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.09$ (L/3196)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.36$ (L/835)

Asta n. 15007 (1585 1586) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.67$ - Classe 1
Sollecitazioni: $T_z=5109.11$
 $V, Ed=5109.11$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.14$
- Verifica a flessione e taglio YY [4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=7392.94$ $M_y=4188.19$
 $M_y, Ed=4188.19$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.42$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.34$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=444015.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=4188.19$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.42$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/17563)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.01$ (L/4561)

Asta n. 17007 (1721 1722) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8768.53$
 $V, Ed=8768.53$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.64$ - Classe 1
Sollecitazioni: $M_y=-6751.77$
 $M_y, Ed=-6751.77$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.68$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6751.77$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.68$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.15$ (L/2005)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.57$ (L/540)

Asta n. 17007 (1722 1785) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.20$ - Classe 1
Sollecitazioni: $T_z=7485.18$
 $V, Ed=7485.18$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.51$ - Classe 1
Sollecitazioni: $M_y=-4920.04$
 $M_y, Ed=-4920.04$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.50$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4920.04$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.50$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.09$ (L/3202)
- Verifica freccia massima carichi totali - CC 2

Relazione di calcolo

$f_{z,L}=0.36$ (L/836)

Asta n. 17007 (1785 1786) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.67$ - Classe 1
Sollecitazioni: $T_z=5143.79$
 $V, Ed=5143.79$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.14$

- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=7427.63$ $M_y=4211.43$
 $M_y, Ed=4211.43$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.42$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.34$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=444015.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=4211.43$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.42$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,G}=0.00$ (L/17563)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.01$ (L/4561)

Asta n. 19007 (1921 1922) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=12359.20$
 $V, Ed=12359.20$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.34$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.64$ - Classe 1
Sollecitazioni: $M_y=-9516.58$
 $M_y, Ed=-9516.58$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.96$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-9516.58$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.97$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.22$ (L/1430)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.79$ (L/388)

Asta n. 19007 (1922 1985) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.20$ - Classe 1
Sollecitazioni: $T_z=10503.00$
 $V, Ed=10503.00$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.29$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.51$ - Classe 1
Sollecitazioni: $M_y=-6872.74$
 $M_y, Ed=-6872.74$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.69$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.61$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=23014.20$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6872.74$ $M_y, b, Rd=9858.06$ $M_y, Ed/M_y, b, Rd=0.70$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.13$ (L/2298)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.50$ (L/609)

Asta n. 19007 (1985 1986) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.67$ - Classe 1
Sollecitazioni: $T_z=6709.31$
 $V, Ed=6709.31$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.19$

- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=9801.92$ $M_y=5531.26$
 $M_y, Ed=5531.26$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.56$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.34$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=444015.00$ $\lambda_{LT}=0.11$

Relazione di calcolo

$\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
My,Ed=5531.26 My,b,Rd=9921.19 My,Ed/My,b,Rd=0.56

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,g}=0.01$ (L/13010)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.02$ (L/3548)

Asta n. 30008 (387 388) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.65$ - Classe 1
Sollecitazioni: $T_z=5583.80$
V,Ed=5583.80 Vc,Rd=36184.00 V,Ed/Vc,Rd=0.15
- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=7799.47$ $M_y=4349.56$
My,Ed=4349.56 My,V,c,Rd=9921.19 My,Ed/My,V,c,Rd=0.44
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.33$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=471478.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
My,Ed=4349.56 My,b,Rd=9921.19 My,Ed/My,b,Rd=0.44
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/17255)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.01$ (L/4447)

Asta n. 30008 (388 323) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.05$ - Classe 1
Sollecitazioni: $T_z=-7459.51$
V,Ed=-7459.51 Vc,Rd=36184.00 V,Ed/Vc,Rd=0.21
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.74$ - Classe 1
Sollecitazioni: $M_y=-4886.35$
My,Ed=-4886.35 My,c,Rd=9921.19 My,Ed/My,c,Rd=0.49
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
My,Ed=-4886.35 My,b,Rd=9848.88 My,Ed/My,b,Rd=0.50
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.09$ (L/3211)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,g}=0.36$ (L/853)

Asta n. 30008 (323 324) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8398.43$
V,Ed=8398.43 Vc,Rd=36184.00 V,Ed/Vc,Rd=0.23
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.57$ - Classe 1
Sollecitazioni: $M_y=-6193.84$
My,Ed=-6193.84 My,c,Rd=9921.19 My,Ed/My,c,Rd=0.62
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
My,Ed=-6193.84 My,b,Rd=9848.88 My,Ed/My,b,Rd=0.63
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.13$ (L/2276)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.48$ (L/615)

Asta n. 30008 (324 325) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8327.26$
V,Ed=8327.26 Vc,Rd=36184.00 V,Ed/Vc,Rd=0.23

Relazione di calcolo

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.56$ - Classe 1
Sollecitazioni: $M_y=-6089.31$
 $M_y, Ed=-6089.31$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.61$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6089.31$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.62$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.13$ (L/2335)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.46$ (L/631)

Asta n. 50008 (587 588) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.65$ - Classe 1
Sollecitazioni: $T_z=5454.28$
 $V, Ed=5454.28$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.15$
- Verifica a flessione e taglio YY [4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=7669.94$ $M_y=4265.37$
 $M_y, Ed=4265.37$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.43$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.33$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=471478.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=4265.37$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.43$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/17936)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,G}=0.01$ (L/4543)

Asta n. 50008 (588 523) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.05$ - Classe 1
Sollecitazioni: $T_z=-7420.36$
 $V, Ed=-7420.36$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.75$ - Classe 1
Sollecitazioni: $M_y=-4835.20$
 $M_y, Ed=-4835.20$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.49$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4835.20$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.49$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.09$ (L/3270)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,G}=0.35$ (L/866)

Asta n. 50008 (523 524) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8398.43$
 $V, Ed=8398.43$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.23$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.57$ - Classe 1
Sollecitazioni: $M_y=-6193.84$
 $M_y, Ed=-6193.84$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.62$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6193.84$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.63$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.13$ (L/2276)
- Verifica freccia massima carichi totali - CC 2

Relazione di calcolo

$f_{z,L}=0.48$ (L/615)

Asta n. 50008 (524 525) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.12$ - Classe 1
Sollecitazioni: $T_z=-8611.96$
 $V, Ed=-8611.96$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.61$ - Classe 1
Sollecitazioni: $M_y=-6512.79$
 $M_y, Ed=-6512.79$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.66$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6512.79$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.66$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.14$ (L/2118)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.53$ (L/572)

Asta n. 70008 (787 788) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.65$ - Classe 1
Sollecitazioni: $T_z=5868.16$
 $V, Ed=5868.16$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.16$
- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=8083.82$ $M_y=4534.39$
 $M_y, Ed=4534.39$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.46$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.33$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=471478.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=4534.39$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.46$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/16623)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.02$ (L/4233)

Asta n. 70008 (788 723) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.05$ - Classe 1
Sollecitazioni: $T_z=-7457.32$
 $V, Ed=-7457.32$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.74$ - Classe 1
Sollecitazioni: $M_y=-4883.48$
 $M_y, Ed=-4883.48$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.49$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4883.48$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.50$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.09$ (L/3217)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.36$ (L/851)

Asta n. 70008 (723 724) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8398.43$
 $V, Ed=8398.43$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.23$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.57$ - Classe 1
Sollecitazioni: $M_y=-6193.84$
 $M_y, Ed=-6193.84$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.62$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$

Relazione di calcolo

$\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6193.84$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.63$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.13$ (L/2277)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.48$ (L/615)

Asta n. 70008 (724 725) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.12$ - Classe 1
Sollecitazioni: $T_z=-8611.96$
 $V, Ed=-8611.96$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.61$ - Classe 1
Sollecitazioni: $M_y=-6512.79$
 $M_y, Ed=-6512.79$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.66$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6512.79$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.66$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.14$ (L/2116)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.53$ (L/572)

Asta n. 90008 (987 988) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.65$ - Classe 1
Sollecitazioni: $T_z=6104.15$
 $V, Ed=6104.15$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.17$
- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=8319.81$ $M_y=4687.79$
 $M_y, Ed=4687.79$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.47$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.33$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=471478.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=4687.79$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.47$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/16227)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.02$ (L/4130)

Asta n. 90008 (988 923) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.05$ - Classe 1
Sollecitazioni: $T_z=-7473.33$
 $V, Ed=-7473.33$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.74$ - Classe 1
Sollecitazioni: $M_y=-4904.46$
 $M_y, Ed=-4904.46$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.49$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4904.46$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.50$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.10$ (L/3201)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.36$ (L/844)

Asta n. 90008 (923 924) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.10$ - Classe 1
Sollecitazioni: $T_z=8398.43$
 $V, Ed=8398.43$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.23$

Relazione di calcolo

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.57$ - Classe 1
Sollecitazioni: $M_y=-6193.84$
 $M_y, Ed=-6193.84$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.62$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6193.84$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.63$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.13$ (L/2276)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.48$ (L/615)

Asta n. 90008 (924 925) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.12$ - Classe 1
Sollecitazioni: $T_z=-8611.96$
 $V, Ed=-8611.96$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.61$ - Classe 1
Sollecitazioni: $M_y=-6512.79$
 $M_y, Ed=-6512.79$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.66$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6512.79$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.66$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.14$ (L/2117)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.53$ (L/572)

Asta n. 110008 (1187 1188) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.65$ - Classe 1
Sollecitazioni: $T_z=6280.13$
 $V, Ed=6280.13$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.17$
- Verifica a flessione e taglio YY [4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=8495.80$ $M_y=4802.18$
 $M_y, Ed=4802.18$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.48$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.33$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=471478.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=4802.18$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.48$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/15490)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.02$ (L/3985)

Asta n. 110008 (1188 1123) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.05$ - Classe 1
Sollecitazioni: $T_z=-7482.87$
 $V, Ed=-7482.87$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.74$ - Classe 1
Sollecitazioni: $M_y=-4917.00$
 $M_y, Ed=-4917.00$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.50$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4917.00$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.50$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.10$ (L/3188)
- Verifica freccia massima carichi totali - CC 2

Relazione di calcolo

$f_{z,L}=0.36$ (L/840)

Asta n. 110008 (1123 1124) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.05$ - Classe 1
Sollecitazioni: $T_z=8540.78$
 $V, Ed=8540.78$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.55$ - Classe 1
Sollecitazioni: $M_y=-6405.58$
 $M_y, Ed=-6405.58$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.65$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6405.58$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.65$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.14$ (L/2162)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.51$ (L/584)

Asta n. 110008 (1124 1125) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.12$ - Classe 1
Sollecitazioni: $T_z=-8754.30$
 $V, Ed=-8754.30$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.59$ - Classe 1
Sollecitazioni: $M_y=-6729.87$
 $M_y, Ed=-6729.87$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.68$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6729.87$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.68$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.15$ (L/2012)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.57$ (L/543)

Asta n. 130008 (1387 1388) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.65$ - Classe 1
Sollecitazioni: $T_z=6506.50$
 $V, Ed=6506.50$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.18$

- Verifica a flessione e taglio YY [4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=8722.16$ $M_y=4949.31$
 $M_y, Ed=4949.31$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.50$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.33$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=471478.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=4949.31$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.50$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/14816)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.02$ (L/3829)

Asta n. 130008 (1388 1323) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.05$ - Classe 1
Sollecitazioni: $T_z=-7496.38$
 $V, Ed=-7496.38$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.73$ - Classe 1
Sollecitazioni: $M_y=-4934.77$
 $M_y, Ed=-4934.77$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.50$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$

Relazione di calcolo

$\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4934.77$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.50$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.10$ (L/3166)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.37$ (L/833)

Asta n. 130008 (1323 1324) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.05$ - Classe 1
Sollecitazioni: $T_z=8540.78$
 $V, Ed=8540.78$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.55$ - Classe 1
Sollecitazioni: $M_y=-6405.58$
 $M_y, Ed=-6405.58$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.65$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6405.58$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.65$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.14$ (L/2160)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,G}=0.51$ (L/584)

Asta n. 130008 (1324 1325) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.12$ - Classe 1
Sollecitazioni: $T_z=-8754.30$
 $V, Ed=-8754.30$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.59$ - Classe 1
Sollecitazioni: $M_y=-6729.87$
 $M_y, Ed=-6729.87$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.68$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6729.87$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.68$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.15$ (L/2012)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,G}=0.57$ (L/543)

Asta n. 150008 (1587 1588) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.65$ - Classe 1
Sollecitazioni: $T_z=6682.52$
 $V, Ed=6682.52$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.18$
- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=8898.19$ $M_y=5063.73$
 $M_y, Ed=5063.73$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.51$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.33$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=471478.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=5063.73$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.51$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,G}=0.00$ (L/14199)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.02$ (L/3786)

Asta n. 150008 (1588 1523) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.05$ - Classe 1
Sollecitazioni: $T_z=-7506.69$
 $V, Ed=-7506.69$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.21$

Relazione di calcolo

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.73$ - Classe 1
Sollecitazioni: $M_y=-4948.35$
 $M_y, Ed=-4948.35$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.50$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-4948.35$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.50$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.10$ (L/3166)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.37$ (L/829)

Asta n. 150008 (1523 1524) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.05$ - Classe 1
Sollecitazioni: $T_z=8540.78$
 $V, Ed=8540.78$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.55$ - Classe 1
Sollecitazioni: $M_y=-6405.58$
 $M_y, Ed=-6405.58$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.65$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6405.58$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.65$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.14$ (L/2160)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.51$ (L/584)

Asta n. 150008 (1524 1525) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.12$ - Classe 1
Sollecitazioni: $T_z=-8754.30$
 $V, Ed=-8754.30$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.24$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.59$ - Classe 1
Sollecitazioni: $M_y=-6729.87$
 $M_y, Ed=-6729.87$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.68$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6729.87$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.68$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.15$ (L/2012)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.57$ (L/543)

Asta n. 170008 (1787 1788) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.65$ - Classe 1
Sollecitazioni: $T_z=6801.90$
 $V, Ed=6801.90$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.19$
- Verifica a flessione e taglio YY [4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=9017.56$ $M_y=5141.32$
 $M_y, Ed=5141.32$ $M_y, V, c, Rd=9921.19$ $M_y, Ed/M_y, V, c, Rd=0.52$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.33$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=471478.00$ $\lambda_{LT}=0.11$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=5141.32$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.52$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.00$ (L/13631)
- Verifica freccia massima carichi totali - CC 2

Relazione di calcolo

$f_{z,L}=0.02$ (L/3704)

Asta n. 170008 (1788 1723) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.05$ - Classe 1
Sollecitazioni: $T_z=-7514.63$
 $V,Ed=-7514.63$ $V_c,Rd=36184.00$ $V,Ed/V_c,Rd=0.21$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.73$ - Classe 1
Sollecitazioni: $M_y=-4958.82$
 $M_y,Ed=-4958.82$ $M_y,c,Rd=9921.19$ $M_y,Ed/M_y,c,Rd=0.50$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y,Ed=-4958.82$ $M_y,b,Rd=9848.88$ $M_y,Ed/M_y,b,Rd=0.50$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.10$ (L/3160)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.37$ (L/827)

Asta n. 170008 (1723 1724) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.05$ - Classe 1
Sollecitazioni: $T_z=8540.78$
 $V,Ed=8540.78$ $V_c,Rd=36184.00$ $V,Ed/V_c,Rd=0.24$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.55$ - Classe 1
Sollecitazioni: $M_y=-6405.58$
 $M_y,Ed=-6405.58$ $M_y,c,Rd=9921.19$ $M_y,Ed/M_y,c,Rd=0.65$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y,Ed=-6405.58$ $M_y,b,Rd=9848.88$ $M_y,Ed/M_y,b,Rd=0.65$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.14$ (L/2163)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.51$ (L/584)

Asta n. 170008 (1724 1725) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.12$ - Classe 1
Sollecitazioni: $T_z=-8754.30$
 $V,Ed=-8754.30$ $V_c,Rd=36184.00$ $V,Ed/V_c,Rd=0.24$

- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.59$ - Classe 1
Sollecitazioni: $M_y=-6729.87$
 $M_y,Ed=-6729.87$ $M_y,c,Rd=9921.19$ $M_y,Ed/M_y,c,Rd=0.68$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y,Ed=-6729.87$ $M_y,b,Rd=9848.88$ $M_y,Ed/M_y,b,Rd=0.68$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.15$ (L/2015)

- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.56$ (L/544)

Asta n. 190008 (1987 1988) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.65$ - Classe 1
Sollecitazioni: $T_z=8841.67$
 $V,Ed=8841.67$ $V_c,Rd=36184.00$ $V,Ed/V_c,Rd=0.24$

- Verifica a flessione e taglio YY[4.2.32] - CC 1 SLU $X_l=0.00$ - Classe 1
Sollecitazioni: $T_z=11842.00$ $M_y=6722.18$
 $M_y,Ed=6722.18$ $M_y,V,c,Rd=9921.19$ $M_y,Ed/M_y,V,c,Rd=0.68$

- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=0.33$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=471478.00$ $\lambda_{LT}=0.11$

Relazione di calcolo

$\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.45$ $\beta_{LT}=0.75$ $f=1.00$ $\chi_{LT}=1.00$
 $M_y, Ed=6722.18$ $M_y, b, Rd=9921.19$ $M_y, Ed/M_y, b, Rd=0.68$

- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.01$ (L/11359)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.02$ (L/2912)

Asta n. 190008 (1988 1923) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.05$ - Classe 1
Sollecitazioni: $T_z=-10553.30$
 $V, Ed=-10553.30$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.29$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.74$ - Classe 1
Sollecitazioni: $M_y=-6938.64$
 $M_y, Ed=-6938.64$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.70$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-6938.64$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.70$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.13$ (L/2264)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.51$ (L/599)

Asta n. 190008 (1923 1924) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=0.05$ - Classe 1
Sollecitazioni: $T_z=12038.20$
 $V, Ed=12038.20$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.33$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.55$ - Classe 1
Sollecitazioni: $M_y=-9028.63$
 $M_y, Ed=-9028.63$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.91$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-9028.63$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.92$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.19$ (L/1542)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,G}=0.72$ (L/419)

Asta n. 190008 (1924 1925) - Sez. 55 (NTr. 2xIPE200) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate

- Verifica a taglio Dir. Z [4.2.16] - CC 1 SLU $X_l=3.12$ - Classe 1
Sollecitazioni: $T_z=-12339.10$
 $V, Ed=-12339.10$ $V_c, Rd=36184.00$ $V, Ed/V_c, Rd=0.34$
- Verifica a flessione YY [4.2.12] - CC 1 SLU $X_l=1.59$ - Classe 1
Sollecitazioni: $M_y=-9485.71$
 $M_y, Ed=-9485.71$ $M_y, c, Rd=9921.19$ $M_y, Ed/M_y, c, Rd=0.96$
- Verifica di stabilità aste inflesse (4.2.4.1.3.2) CC 1 SLU - Classe 1
 $L_{cr}=1.62$ Curva b: $\alpha_{imp}=0.34$ $k_c=0.94$ $\psi=1.75$ $M_{cr}=22777.60$ $\lambda_{LT}=0.48$
 $\lambda_{LT,0}=0.40$ $\beta_{LT}=0.75$ $\Phi_{LT}=0.60$ $\beta_{LT}=0.75$ $f=0.98$ $\chi_{LT}=0.99$
 $M_y, Ed=-9485.71$ $M_y, b, Rd=9848.88$ $M_y, Ed/M_y, b, Rd=0.96$
- Verifica freccia massima per soli carichi accidentali - CC 2
 $f_{z,L}=0.21$ (L/1436)
- Verifica freccia massima carichi totali - CC 2
 $f_{z,L}=0.79$ (L/390)

Sintesi

Tipo di normativa: stati limite D.M. 18

Tipo di calcolo: statico

Relazione di calcolo

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
 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>	Imp.	X <m>	Y <m>	Z <m>	Mo <kg>	Jpz <kg*mq>
1	8.00	10.60	1.79	14749.40	113276.00	2	8.97	6.59	3.49	285346.00	15295300.00
3	7.91	10.65	4.90	14097.50	102330.00	4	8.89	6.46	6.50	267218.00	14090800.00
5	7.91	10.41	7.89	12644.90	92307.00	6	8.87	6.35	9.49	261346.00	13576800.00
7	7.91	10.41	10.89	12644.90	92307.00	8	8.89	6.41	12.49	257065.00	13258000.00
9	7.91	10.41	13.89	12644.90	92307.00	10	8.88	6.47	15.49	251533.00	12892700.00
11	7.91	10.36	16.89	12377.30	90282.20	12	8.88	6.47	18.50	249519.00	12786600.00
13	7.91	10.36	19.89	12377.30	90282.20	14	8.88	6.47	21.50	249519.00	12786600.00
15	7.91	10.36	22.89	12377.30	90282.20	16	8.88	6.47	24.50	249519.00	12786600.00
17	7.93	10.41	25.89	12643.40	91918.60	18	9.30	6.56	27.49	230287.00	10792200.00

Totali masse impalcati

Mo <kg>	Jpz <kg*mq>
2417910.00	119121000.00

Materiali

Cemento armato

Elenco dei criteri di progetto e delle loro principali caratteristiche meccaniche utilizzate:

Relazione di calcolo

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>
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>

Travi in c.a.: 4 Nuove Travi

Calcestruzzo

Tipo di calcestruzzo: C28/35
Rck calcestruzzo (Rck calcestruzzo): 350.00 <daN/cm²>
Resistenza caratteristica cilindrica a compressione del calcestruzzo (Fck): 290.50 <daN/cm²>
Resistenza caratteristica a trazione del calcestruzzo (Fctk): 19.84 <daN/cm²>
 α_{cc} : 0.85
 γ_c : 1.50
Resistenza di calcolo a compressione del calcestruzzo (Fcd): 164.62 <daN/cm²>
Resistenza di calcolo a trazione del calcestruzzo (Fctd): 13.23 <daN/cm²>

Acciaio

Tipo di acciaio: B450C
Tensione caratteristica di snervamento dell'acciaio (Fyk): 4500.00 <daN/cm²>
 γ_s : 1.15
Resistenza di calcolo dell'acciaio (Fyd): 3913.04 <daN/cm²>

Acciaio

Elenco dei criteri di progetto e delle loro principali caratteristiche meccaniche utilizzate:
Aste in acciaio: 1

Tipo di acciaio a sezione cava: S235 UNI EN 10025-2
Tensione caratteristica di snervamento dell'acciaio (Fyk): 2350.00 <daN/cm²>
Tensione caratteristica di rottura (Fyt): 3600.00 <daN/cm²>
Modulo elastico (E): 2100000.00 <daN/cm²>
Modulo elastico tangenziale (G): 800000.00 <daN/cm²>

Collegamenti e reticolari in acciaio

Relazione di calcolo

Elenco dei criteri di progetto e delle loro principali caratteristiche meccaniche utilizzate:
Nodi in acciaio: 1 Piastre di fondazione

Classe bulloni: 6.8
Classe Saldature: SECONDA

Carichi

Simbologia

CCE = Numero della condizione di carico elementare
Comm. = Commento
Imp. = Numero dell'impalcato
Mq_{Tot} = 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 <m>	Ts	Comm.	Mq _{Tot} <mq>	Qps <daN/mq>	CCE	Qpn <daN/mq>	CCE	QA <daN/mq>	CCE	QA2 <daN/mq>	CCE	QA3 <daN/mq>	CCE
0	0.00	3	Solaio SP	204.86	200.00	1	200.00	2	200.00	3	--	--	--	--
2	3.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
4	6.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
6	9.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
8	12.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
10	15.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
12	18.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
14	21.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
16	24.50	1	Solaio di piano sp.24	187.05	230.00	1	190.00	2	200.00	3	0.00	4	--	--
18	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. 5060	1	SLU	PRFL	1.079
Travata n. 6012	1	SLU	TAG	1.798
Pilastrata n. 35	4	SLE Q	PRFL	1.125
Nucleo n. 497	1	SLU	TAG	1.231
Asta in acciaio n. 19007	1	SLU	PRFL	1.043
Asta in acciaio n. 19007	1	SLU	TAG	1.938
Asta in acciaio n. 19007	1	SLU	STAB	1.036

Minimo coefficiente di sicurezza:1.036