COMUNE DI TERNI
PROVINCIA DI TERNI

Unione Europea
NextGenerationEU

Intervento finanziato dall'Unione Europea
NextGenerationEU

ADEGUAMENTO SISMICO
DEL COMPLESSO SCOLASTICO "LE GRAZIE" EDIFICI B-C
VIA DEI CICLAMINI 1 - TERNI

Finanziato dall'Unione Europea - NextGenerationEU

Proprietà: Comune di Terni
Responsabile Unico del Procedimento: geom. Stefano Fredduzzi

edificio B
FASCICOLO DEI CALCOLI

PROGETTO DEFINITIVO-ESECUTIVO

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EMISSIONE	**01/09/2022**
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Sommario

Fascicolo dei calcoli - edificio B - Sovrastruttura

Sistemi di riferimento

Le coordinate, i carichi concentrati, i cedimenti, le reazioni vincolari e gli spostamenti dei NODI sono riferiti ad una terna destra cartesiana globale con l'asse Z verticale rivolto verso l'alto.
I carichi in coordinate locali e le sollecitazioni delle ASTE sono riferite ad una terna destra cartesiana locale così definita:
- origine nel nodo iniziale dell'asta;
- asse X coincidente con l'asse dell'asta e con verso dal nodo iniziale al nodo finale;
- immaginando la trave a sezione rettangolare l'asse Y è parallelo alla base e l'asse Z è parallelo all'altezza.
La rotazione dell'asta comporta quindi una rotazione di tutta la terna locale.

Si può immaginare la terna locale di un'asta comunque disposta nello spazio come derivante da quella globale dopo una serie di trasformazioni:
- una rotazione intorno all'asse Z che porti l'asse X a coincidere con la proiezione dell'asse dell'asta sul piano orizzontale;
- una traslazione lungo il nuovo asse X così definito in modo da portare l'origine a coincidere con la proiezione del nodo iniziale dell'asta sul piano orizzontale;
- una traslazione lungo l'asse Z che porti l'origine a coincidere con il nodo iniziale dell'asta;
- una rotazione intorno all'asse Y così definito che porti l'asse X a coincidere con l'asse dell'asta;
- una rotazione intorno all'asse X così definito pari alla rotazione dell'asta.

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

Le sollecitazioni ed i carichi in coordinate locali negli ELEMENTI BIDIMENSIONALI e nei MURI sono riferiti ad una terna destra cartesiana locale così definita:
- origine nel primo nodo dell'elemento;
- asse X coincidente con la congiungente il primo ed il secondo nodo dell'elemento;
- asse Y definito come prodotto vettoriale fra il versore dell'asse X e il versore della congiungente il primo e il quarto nodo. Asse Z a formare con gli altri due una terna destrorsa.

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

Rotazioni e momenti

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

Normativa di riferimento

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

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

Elenco nodi

Simbologia

Imp. = Numero dell'impalcato
Nodo = Numero del nodo
Vn = Numero del vincolo nodo
X = Coordinata X del nodo
Y = Coordinata Y del nodo
Z = Coordinata Z del nodo

Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn
-1126	11.05	3.35	2.17	0	1
-1120	11.05	4.76	2.69	0	1
-1117	0.35	4.76	2.69	0	1
-1114	6.35	4.76	2.69	0	1
-1111	6.35	3.82	2.35	0	1
-1099	11.05	7.57	3.73	0	1
-1095	11.25	6.75	3.43	0	1
-1091	28.10	16.90	3.35	0	1
-1088	28.10	16.90	2.42	0	1
-1085	28.10	16.90	1.93	0	1
-1082	28.10	16.90	1.45	0	1
-1079	28.10	16.90	0.97	0	1
-1076	28.10	16.90	0.48	0	1
-1073	28.10	16.90	2.90	0	1
-1070	28.10	17.90	0.97	0	1
-1067	28.10	17.90	2.42	0	1
-1064	28.10	16.90	3.80	1	1
-1061	28.10	15.90	2.90	0	1
-1058	28.10	15.90	1.45	0	1
-1055	28.10	16.40	0.00	0	2
-1052	28.10	15.90	3.80	1	1
-1049	19.60	8.45	7.72	0	1
-1046	10.78	11.90	6.60	2	1
-1043	9.35	11.90	6.60	2	1
-1040	26.96	5.22	6.60	2	1
-1037	21.28	5.22	6.60	2	1
-1034	20.02	5.22	6.60	2	1
-1031	11.72	5.22	6.60	2	1
-1028	10.30	11.90	6.32	0	1
-1025	28.10	5.22	6.31	0	1
-1022	26.96	5.22	6.31	0	1
-1019	21.28	5.22	6.31	0	1
-1016	20.02	5.22	6.31	0	1
-1013	12.20	5.22	6.31	0	1
-1010	28.10	11.90	6.02	0	1
-1007	26.96	11.90	6.02	0	1
-1004	19.16	11.90	6.02	0	1
-1001	11.25	11.90	6.02	0	1
-998	9.82	11.90	6.02	0	1
-995	27.72	5.22	6.02	0	1
-992	26.57	5.22	6.02	0	1
-989	20.86	5.22	6.02	0	1
-986	19.60	5.22	6.02	0	1
-983	11.72	5.22	6.02	0	1
-980	6.35	12.82	5.68	0	1
-977	27.34	11.90	5.68	0	1
-974	11.25	11.90	5.68	0	1
-971	9.82	11.90	5.68	0	1
-968	27.72	5.22	5.68	0	1
-965	26.57	5.22	5.68	0	1
-962	11.72	5.22	5.68	0	1
-959	19.16	11.90	5.58	0	1

Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn
-1125	6.35	3.35	2.17	0	1
-1119	11.05	5.70	3.04	0	1
-1116	0.35	5.70	3.04	0	1
-1113	6.35	5.70	3.04	0	1
-1110	0.35	3.82	2.35	0	1
-1097	11.05	7.75	3.80	1	1
-1094	11.25	5.22	2.88	0	1
-1090	28.10	16.40	3.35	0	1
-1087	28.10	17.40	2.42	0	1
-1084	28.10	17.40	1.93	0	1
-1081	28.10	17.40	1.45	0	1
-1078	28.10	17.40	0.97	0	1
-1075	28.10	17.40	0.48	0	1
-1072	28.10	17.40	2.90	0	1
-1069	28.10	17.90	1.45	0	1
-1066	28.10	17.90	3.35	0	1
-1063	28.10	16.40	3.80	1	1
-1060	28.10	15.90	2.42	0	1
-1057	28.10	15.90	0.97	0	1
-1054	28.10	16.90	0.00	0	2
-1051	28.10	15.90	0.00	0	2
-1048	15.43	8.45	7.72	0	1
-1045	10.30	11.90	6.60	2	1
-1042	27.72	5.22	6.60	2	1
-1039	26.57	5.22	6.60	2	1
-1036	20.86	5.22	6.60	2	1
-1033	12.78	5.22	6.60	2	1
-1030	11.25	11.90	6.32	0	1
-1027	9.82	11.90	6.32	0	1
-1024	27.72	5.22	6.31	0	1
-1021	26.57	5.22	6.31	0	1
-1018	20.86	5.22	6.31	0	1
-1015	19.60	5.22	6.31	0	1
-1012	11.72	5.22	6.31	0	1
-1009	27.72	11.90	6.02	0	1
-1006	26.57	11.90	6.02	0	1
-1003	18.72	11.90	6.02	0	1
-1000	10.78	11.90	6.02	0	1
-997	9.35	11.90	6.02	0	1
-994	27.34	5.22	6.02	0	1
-991	21.70	5.22	6.02	0	1
-988	20.44	5.22	6.02	0	1
-985	12.78	5.22	6.02	0	1
-982	11.25	5.22	6.02	0	1
-979	28.10	11.90	5.68	0	1
-976	26.96	11.90	5.68	0	1
-973	10.78	11.90	5.68	0	1
-970	9.35	11.90	5.68	0	1
-967	27.34	5.22	5.68	0	1
-964	12.78	5.22	5.68	0	1
-961	11.25	5.22	5.68	0	1
-958	18.72	11.90	5.58	0	1

Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn
-1124	0.35	3.35	2.17	0	1
-1118	11.05	6.63	3.39	0	1
-1115	0.35	6.63	3.39	0	1
-1112	6.35	6.63	3.39	0	1
-1109	11.05	3.82	2.35	0	1
-1096	19.60	8.75	3.80	1	1
-1092	28.10	17.40	3.35	0	1
-1089	28.10	16.40	2.42	0	1
-1086	28.10	16.40	1.93	0	1
-1083	28.10	16.40	1.45	0	1
-1080	28.10	16.40	0.97	0	1
-1077	28.10	16.40	0.48	0	1
-1074	28.10	16.40	2.90	0	1
-1071	28.10	17.90	0.48	0	1
-1068	28.10	17.90	1.93	0	1
-1065	28.10	17.40	3.80	1	1
-1062	28.10	15.90	3.35	0	1
-1059	28.10	15.90	1.93	0	1
-1056	28.10	15.90	0.48	0	1
-1053	28.10	17.40	0.00	0	2
-1050	23.85	8.45	7.72	0	1
-1047	11.25	8.45	7.72	0	1
-1044	9.82	11.90	6.60	2	1
-1041	27.34	5.22	6.60	2	1
-1038	23.85	5.22	6.60	2	1
-1035	20.44	5.22	6.60	2	1
-1032	12.20	5.22	6.60	2	1
-1029	10.78	11.90	6.32	0	1
-1026	9.35	11.90	6.32	0	1
-1023	27.34	5.22	6.31	0	1
-1020	21.70	5.22	6.31	0	1
-1017	20.44	5.22	6.31	0	1
-1014	12.78	5.22	6.31	0	1
-1011	11.25	5.22	6.31	0	1
-1008	27.34	11.90	6.02	0	1
-1005	19.60	11.90	6.02	0	1
-1002	18.27	11.90	6.02	0	1
-999	10.30	11.90	6.02	0	1
-996	28.10	5.22	6.02	0	1
-993	26.96	5.22	6.02	0	1
-990	21.28	5.22	6.02	0	1
-987	20.02	5.22	6.02	0	1
-984	12.20	5.22	6.02	0	1
-981	9.35	12.82	5.68	0	1
-978	27.72	11.90	5.68	0	1
-975	26.57	11.90	5.68	0	1
-972	10.30	11.90	5.68	0	1
-969	28.10	5.22	5.68	0	1
-966	26.96	5.22	5.68	0	1
-963	12.20	5.22	5.68	0	1
-960	19.60	11.90	5.58	0	1
-957	18.27	11.90	5.58	0	1

-956	21.70	5.22	5.58	0	1
-953	20.44	5.22	5.58	0	1
-950	28.10	11.90	5.33	0	1
-947	26.96	11.90	5.33	0	1
-944	10.30	11.90	5.34	0	1
-941	28.10	5.22	5.34	0	1
-938	26.96	5.22	5.33	0	1
-935	12.20	5.22	5.33	0	1
-932	19.60	11.90	5.13	0	1
-929	18.27	11.90	5.13	0	1
-926	20.86	5.22	5.13	0	1
-923	19.60	5.22	5.13	0	1
-920	27.34	11.90	4.95	0	1
-917	11.25	11.90	4.95	0	1
-914	9.82	11.90	4.95	0	1
-911	27.72	5.22	4.95	0	1
-908	26.57	5.22	4.95	0	1
-905	11.72	5.22	4.95	0	1
-902	19.16	11.90	4.69	0	1
-899	21.70	5.22	4.69	0	1
-896	20.44	5.22	4.69	0	1
-893	28.10	11.90	4.57	0	1
-890	26.96	11.90	4.57	0	1
-887	10.78	11.90	4.57	0	1
-884	9.35	11.90	4.57	0	1
-881	27.34	5.22	4.57	0	1
-878	12.78	5.22	4.57	0	1
-875	11.25	5.22	4.57	0	1
-872	7.21	17.90	4.33	0	1
-869	18.72	11.90	4.24	0	1
-866	21.28	5.22	4.24	0	1
-863	20.02	5.22	4.24	0	1
-860	28.10	11.90	4.18	0	1
-857	26.96	11.90	4.18	0	1
-854	10.78	11.90	4.18	0	1
-851	9.35	11.90	4.18	0	1
-848	27.34	5.22	4.18	0	1
-845	12.78	5.22	4.18	0	1
-842	11.25	5.22	4.18	0	1
-839	8.06	17.90	4.12	0	1
-836	8.49	17.90	4.01	0	1
-833	1.49	19.90	3.80	1	1
-830	8.85	17.90	3.80	0	1
-827	7.35	17.90	3.80	0	1
-824	6.35	17.48	3.80	0	1
-821	26.96	11.90	3.80	1	1
-818	24.88	11.90	3.80	1	1
-815	18.72	11.90	3.80	1	1
-812	15.26	11.90	3.80	1	1
-809	12.78	11.90	3.80	1	1
-806	11.63	11.90	3.80	1	1
-803	9.82	11.90	3.80	1	1
-800	6.35	9.10	3.80	1	1
-797	11.25	8.75	3.80	1	1
-794	12.78	8.25	3.80	1	1
-791	14.68	7.75	3.80	1	1
-788	1.49	7.75	3.80	1	1
-785	14.68	7.25	3.80	1	1
-782	14.68	6.75	3.80	1	1
-779	13.25	6.75	3.80	1	1
-776	11.25	6.37	3.80	1	1
-773	24.00	5.40	3.80	1	1
-770	27.34	5.22	3.80	1	1
-767	24.43	5.22	3.80	1	1
-764	21.28	5.22	3.80	1	1
-761	20.02	5.22	3.80	1	1
-758	14.68	5.22	3.80	1	1
-755	13.15	5.22	3.80	1	1
-752	11.72	5.22	3.80	1	1
-748	28.10	18.65	3.52	0	1
-745	1.88	19.90	3.35	0	1
-742	0.73	19.90	3.35	0	1
-739	8.85	17.90	3.35	0	1
-736	7.35	17.90	3.35	0	1
-733	28.10	11.90	3.35	0	1
-730	26.96	11.90	3.35	0	1
-727	24.88	11.90	3.35	0	1
-724	19.60	11.90	3.35	0	1
-721	18.27	11.90	3.35	0	1
-718	14.82	11.90	3.35	0	1
-715	12.78	8.75	3.35	0	1
-712	12.78	7.75	3.35	0	1
-709	1.11	7.75	3.35	0	1
-706	14.68	7.25	3.35	0	1

-955	21.28	5.22	5.58	0	1
-952	20.02	5.22	5.58	0	1
-949	27.72	11.90	5.33	0	1
-946	26.57	11.90	5.33	0	1
-943	9.82	11.90	5.34	0	1
-940	27.72	5.22	5.33	0	1
-937	26.57	5.22	5.33	0	1
-934	11.72	5.22	5.33	0	1
-931	19.16	11.90	5.13	0	1
-928	21.70	5.22	5.13	0	1
-925	20.44	5.22	5.13	0	1
-922	28.10	11.90	4.95	0	1
-919	26.96	11.90	4.95	0	1
-916	10.78	11.90	4.95	0	1
-913	9.35	11.90	4.95	0	1
-910	27.34	5.22	4.95	0	1
-907	12.78	5.22	4.95	0	1
-904	11.25	5.22	4.95	0	1
-901	18.72	11.90	4.69	0	1
-898	21.28	5.22	4.69	0	1
-895	20.02	5.22	4.69	0	1
-892	27.72	11.90	4.57	0	1
-889	26.57	11.90	4.57	0	1
-886	10.30	11.90	4.57	0	1
-883	28.10	5.22	4.57	0	1
-880	26.96	5.22	4.57	0	1
-877	12.20	5.22	4.57	0	1
-874	6.35	17.90	4.54	0	1
-871	19.60	11.90	4.24	0	1
-868	18.27	11.90	4.24	0	1
-865	20.86	5.22	4.24	0	1
-862	19.60	5.22	4.24	0	1
-859	27.72	11.90	4.18	0	1
-856	26.57	11.90	4.18	0	1
-853	10.30	11.90	4.18	0	1
-850	28.10	5.22	4.18	0	1
-847	26.96	5.22	4.18	0	1
-844	12.20	5.22	4.18	0	1
-841	6.35	17.90	4.17	0	1
-838	7.23	17.90	4.07	0	1
-835	8.92	17.90	3.91	0	1
-832	1.11	19.90	3.80	1	1
-829	8.35	17.90	3.80	0	1
-826	6.85	17.90	3.80	0	1
-823	27.72	11.90	3.80	1	1
-820	26.57	11.90	3.80	1	1
-817	24.44	11.90	3.80	1	1
-814	18.27	11.90	3.80	1	1
-811	14.82	11.90	3.80	1	1
-808	12.39	11.90	3.80	1	1
-805	10.78	11.90	3.80	1	1
-802	6.35	10.00	3.80	1	1
-799	14.68	8.75	3.80	1	1
-796	6.35	8.65	3.80	1	1
-793	11.25	8.25	3.80	1	1
-790	12.78	7.75	3.80	1	1
-787	1.11	7.75	3.80	1	1
-784	12.78	7.25	3.80	1	1
-781	14.20	6.75	3.80	1	1
-778	12.78	6.75	3.80	1	1
-775	11.25	5.99	3.80	1	1
-772	19.60	5.40	3.80	1	1
-769	26.96	5.22	3.80	1	1
-766	24.00	5.22	3.80	1	1
-763	20.86	5.22	3.80	1	1
-760	15.53	5.22	3.80	1	1
-757	14.10	5.22	3.80	1	1
-754	12.78	5.22	3.80	1	1
-750	6.35	7.57	3.73	0	1
-747	9.35	18.65	3.52	0	1
-744	1.49	19.90	3.35	0	1
-741	0.35	19.90	3.35	0	1
-738	8.35	17.90	3.35	0	1
-735	6.85	17.90	3.35	0	1
-732	27.72	11.90	3.35	0	1
-729	26.57	11.90	3.35	0	1
-726	24.44	11.90	3.35	0	1
-723	19.16	11.90	3.35	0	1
-720	15.70	11.90	3.35	0	1
-717	14.38	11.90	3.35	0	1
-714	12.78	8.25	3.35	0	1
-711	1.88	7.75	3.35	0	1
-708	0.73	7.75	3.35	0	1
-705	12.78	7.25	3.35	0	1

-954	20.86	5.22	5.58	0	1
-951	19.60	5.22	5.58	0	1
-948	27.34	11.90	5.33	0	1
-945	10.78	11.90	5.34	0	1
-942	9.35	11.90	5.34	0	1
-939	27.34	5.22	5.33	0	1
-936	12.78	5.22	5.33	0	1
-933	11.25	5.22	5.33	0	1
-930	18.72	11.90	5.13	0	1
-927	21.28	5.22	5.13	0	1
-924	20.02	5.22	5.13	0	1
-921	27.72	11.90	4.95	0	1
-918	26.57	11.90	4.95	0	1
-915	10.30	11.90	4.95	0	1
-912	28.10	5.22	4.95	0	1
-909	26.96	5.22	4.95	0	1
-906	12.20	5.22	4.95	0	1
-903	19.60	11.90	4.69	0	1
-900	18.27	11.90	4.69	0	1
-897	20.86	5.22	4.69	0	1
-894	19.60	5.22	4.69	0	1
-891	27.34	11.90	4.57	0	1
-888	11.25	11.90	4.57	0	1
-885	9.82	11.90	4.57	0	1
-882	27.72	5.22	4.57	0	1
-879	26.57	5.22	4.57	0	1
-876	11.72	5.22	4.57	0	1
-873	6.78	17.90	4.43	0	1
-870	19.16	11.90	4.24	0	1
-867	21.70	5.22	4.24	0	1
-864	20.44	5.22	4.24	0	1
-861	7.64	17.90	4.22	0	1
-858	27.34	11.90	4.18	0	1
-855	11.25	11.90	4.18	0	1
-852	9.82	11.90	4.18	0	1
-849	27.72	5.22	4.18	0	1
-846	26.57	5.22	4.18	0	1
-843	11.72	5.22	4.18	0	1
-840	6.80	17.90	4.12	0	1
-837	7.57	17.90	4.03	0	1
-834	1.88	19.90	3.80	1	1
-831	0.73	19.90	3.80	1	1
-828	7.85	17.90	3.80	0	1
-825	6.35	17.90	3.80	0	1
-822	27.34	11.90	3.80	1	1
-819	25.32	11.90	3.80	1	1
-816	19.16	11.90	3.80	1	1
-813	16.00	11.90	3.80	1	1
-810	14.38	11.90	3.80	1	1
-807	12.01	11.90	3.80	1	1
-804	10.30	11.90	3.80	1	1
-801	6.35	9.55	3.80	1	1
-798	12.78	8.75	3.80	1	1
-795	14.68	8.25	3.80	1	1
-792	6.35	8.20	3.80	1	1
-789	1.88	7.75	3.80	1	1
-786	0.73	7.75	3.80	1	1
-783	11.25	7.25	3.80	1	1
-780	13.72	6.75	3.80	1	1
-777	11.25	6.75	3.80	1	1
-774	11.25	5.61	3.80	1	1
-771	27.72	5.22	3.80	1	1
-768	26.57	5.22	3.80	1	1
-765	23.55	5.22	3.80	1	1
-762	20.44	5.22	3.80	1	1
-759	15.05	5.22	3.80	1	1
-756	13.62	5.22	3.80	1	1
-753	12.20	5.22	3.80	1	1
-749	0.35	7.57	3.73	0	1
-746	14.68	8.25	3.45	0	1
-743	1.11	19.90	3.35	0	1
-740	9.35	17.90	3.35	0	1
-737	7.85	17.90	3.35	0	1
-734	6.35	17.90	3.35	0	1
-731	27.34	11.90	3.35	0	1
-728	25.32	11.90	3.35	0	1
-725	24.00	11.90	3.35	0	1
-722	18.72	11.90	3.35	0	1
-719	15.26	11.90	3.35	0	1
-716	14.68	8.75	3.35	0	1
-713	14.68	7.75	3.35	0	1
-710	1.49	7.75	3.35	0	1
-707	0.35	7.75	3.35	0	1
-704	14.68	6.75	3.35	0	1

-703	14.20	6.75	3.35	0	1
-700	12.78	6.75	3.35	0	1
-697	27.34	5.22	3.35	0	1
-694	24.43	5.22	3.35	0	1
-691	23.10	5.22	3.35	0	1
-688	20.86	5.22	3.35	0	1
-685	19.60	5.22	3.35	0	1
-682	12.78	11.90	3.33	0	1
-679	11.63	11.90	3.33	0	1
-676	10.30	11.90	3.33	0	1
-673	6.35	10.45	3.33	0	1
-670	6.35	9.10	3.33	0	1
-667	11.25	8.25	3.33	0	1
-664	6.35	7.75	3.33	0	1
-660	15.53	5.22	3.33	0	1
-657	12.78	5.22	3.33	0	1
-654	11.25	5.22	3.33	0	1
-651	1.49	19.90	2.90	0	1
-648	0.35	19.90	2.90	0	1
-645	21.90	17.90	2.90	0	1
-642	13.57	17.90	2.90	0	1
-639	8.35	17.90	2.90	0	1
-636	6.85	17.90	2.90	0	1
-633	0.35	13.82	2.90	0	1
-630	27.34	11.90	2.90	0	1
-627	25.32	11.90	2.90	0	1
-624	24.00	11.90	2.90	0	1
-621	18.72	11.90	2.90	0	1
-618	15.26	11.90	2.90	0	1
-615	0.35	11.65	2.90	0	1
-612	14.68	8.25	2.90	0	1
-609	1.88	7.75	2.90	0	1
-606	0.73	7.75	2.90	0	1
-603	14.68	6.75	2.90	0	1
-600	13.25	6.75	2.90	0	1
-597	27.72	5.22	2.90	0	1
-594	26.57	5.22	2.90	0	1
-591	23.55	5.22	2.90	0	1
-588	21.28	5.22	2.90	0	1
-585	20.02	5.22	2.90	0	1
-582	6.35	17.05	2.85	0	1
-579	12.01	11.90	2.85	0	1
-576	10.78	11.90	2.85	0	1
-573	9.35	11.90	2.85	0	1
-570	6.35	9.55	2.85	0	1
-567	6.35	8.65	2.85	0	1
-564	11.25	7.75	2.85	0	1
-561	11.25	6.75	2.85	0	1
-558	15.05	5.22	2.85	0	1
-555	12.20	5.22	2.85	0	1
-548	1.88	19.90	2.42	0	1
-545	0.73	19.90	2.42	0	1
-542	8.85	17.90	2.42	0	1
-539	7.35	17.90	2.42	0	1
-536	28.10	11.90	2.42	0	1
-533	26.96	11.90	2.42	0	1
-530	24.88	11.90	2.42	0	1
-527	19.60	11.90	2.42	0	1
-524	18.27	11.90	2.42	0	1
-521	14.82	11.90	2.42	0	1
-518	12.78	8.75	2.42	0	1
-515	14.68	7.75	2.42	0	1
-512	1.49	7.75	2.42	0	1
-509	0.35	7.75	2.42	0	1
-506	16.00	6.75	2.42	0	1
-503	13.72	6.75	2.42	0	1
-500	28.10	5.22	2.42	0	1
-497	26.96	5.22	2.42	0	1
-494	24.00	5.22	2.42	0	1
-491	21.70	5.22	2.42	0	1
-488	20.44	5.22	2.42	0	1
-485	6.35	17.48	2.39	0	1
-482	12.39	11.90	2.38	0	1
-479	11.25	11.90	2.38	0	1
-476	9.82	11.90	2.38	0	1
-473	6.35	10.00	2.38	0	1
-470	11.25	8.75	2.38	0	1
-467	6.35	8.20	2.38	0	1
-464	11.25	7.25	2.38	0	1
-461	15.53	5.22	2.38	0	1
-458	12.78	5.22	2.38	0	1
-455	11.25	5.22	2.38	0	1
-452	1.11	19.90	1.93	0	1
-449	9.35	17.90	1.93	0	1

-702	13.72	6.75	3.35	0	1
-699	28.10	5.22	3.35	0	1
-696	26.96	5.22	3.35	0	1
-693	24.00	5.22	3.35	0	1
-690	21.70	5.22	3.35	0	1
-687	20.44	5.22	3.35	0	1
-684	6.35	17.48	3.34	0	1
-681	12.39	11.90	3.33	0	1
-678	11.25	11.90	3.33	0	1
-675	9.82	11.90	3.33	0	1
-672	6.35	10.00	3.33	0	1
-669	11.25	8.75	3.33	0	1
-666	6.35	8.20	3.33	0	1
-663	11.25	7.25	3.33	0	1
-659	15.05	5.22	3.33	0	1
-656	12.20	5.22	3.33	0	1
-653	14.68	7.75	3.11	0	1
-650	1.11	19.90	2.90	0	1
-647	28.10	17.90	2.90	0	1
-644	19.77	17.90	2.90	0	1
-641	9.35	17.90	2.90	0	1
-638	7.85	17.90	2.90	0	1
-635	6.35	17.90	2.90	0	1
-632	28.10	11.90	2.90	0	1
-629	26.96	11.90	2.90	0	1
-626	24.88	11.90	2.90	0	1
-623	19.60	11.90	2.90	0	1
-620	18.27	11.90	2.90	0	1
-617	14.82	11.90	2.90	0	1
-614	14.68	8.75	2.90	0	1
-611	12.78	8.25	2.90	0	1
-608	1.49	7.75	2.90	0	1
-605	0.35	7.75	2.90	0	1
-602	14.20	6.75	2.90	0	1
-599	12.78	6.75	2.90	0	1
-596	27.34	5.22	2.90	0	1
-593	24.43	5.22	2.90	0	1
-590	23.10	5.22	2.90	0	1
-587	20.86	5.22	2.90	0	1
-584	19.60	5.22	2.90	0	1
-581	12.78	11.90	2.85	0	1
-578	11.63	11.90	2.85	0	1
-575	10.30	11.90	2.85	0	1
-572	6.35	10.45	2.85	0	1
-569	6.35	9.10	2.85	0	1
-566	11.25	8.25	2.85	0	1
-563	6.35	7.75	2.85	0	1
-560	16.00	5.22	2.85	0	1
-557	14.68	5.22	2.85	0	1
-554	11.72	5.22	2.85	0	1
-547	1.49	19.90	2.42	0	1
-544	0.35	19.90	2.42	0	1
-541	8.35	17.90	2.42	0	1
-538	6.85	17.90	2.42	0	1
-535	27.72	11.90	2.42	0	1
-532	26.57	11.90	2.42	0	1
-529	24.44	11.90	2.42	0	1
-526	19.16	11.90	2.42	0	1
-523	15.70	11.90	2.42	0	1
-520	14.38	11.90	2.42	0	1
-517	14.68	8.25	2.42	0	1
-514	12.78	7.75	2.42	0	1
-511	1.11	7.75	2.42	0	1
-508	14.68	7.25	2.42	0	1
-505	14.68	6.75	2.42	0	1
-502	13.25	6.75	2.42	0	1
-499	27.72	5.22	2.42	0	1
-496	26.57	5.22	2.42	0	1
-493	23.55	5.22	2.42	0	1
-490	21.28	5.22	2.42	0	1
-487	20.02	5.22	2.42	0	1
-484	6.35	17.05	2.38	0	1
-481	12.01	11.90	2.38	0	1
-478	10.78	11.90	2.38	0	1
-475	9.35	11.90	2.38	0	1
-472	6.35	9.55	2.38	0	1
-469	6.35	8.65	2.38	0	1
-466	11.25	7.75	2.38	0	1
-463	11.25	6.75	2.38	0	1
-460	15.05	5.22	2.38	0	1
-457	12.20	5.22	2.38	0	1
-454	1.88	19.90	1.93	0	1
-451	0.73	19.90	1.93	0	1
-448	8.85	17.90	1.93	0	1

-701	13.25	6.75	3.35	0	1
-698	27.72	5.22	3.35	0	1
-695	26.57	5.22	3.35	0	1
-692	23.55	5.22	3.35	0	1
-689	21.28	5.22	3.35	0	1
-686	20.02	5.22	3.35	0	1
-683	6.35	17.05	3.33	0	1
-680	12.01	11.90	3.33	0	1
-677	10.78	11.90	3.33	0	1
-674	9.35	11.90	3.33	0	1
-671	6.35	9.55	3.33	0	1
-668	6.35	8.65	3.33	0	1
-665	11.25	7.75	3.33	0	1
-661	16.00	5.22	3.33	0	1
-658	14.68	5.22	3.33	0	1
-655	11.72	5.22	3.33	0	1
-652	1.88	19.90	2.90	0	1
-649	0.73	19.90	2.90	0	1
-646	25.98	17.90	2.90	0	1
-643	15.70	17.90	2.90	0	1
-640	8.85	17.90	2.90	0	1
-637	7.35	17.90	2.90	0	1
-634	0.35	16.00	2.90	0	1
-631	27.72	11.90	2.90	0	1
-628	26.57	11.90	2.90	0	1
-625	24.44	11.90	2.90	0	1
-622	19.16	11.90	2.90	0	1
-619	15.70	11.90	2.90	0	1
-616	14.38	11.90	2.90	0	1
-613	12.78	8.75	2.90	0	1
-610	12.78	7.75	2.90	0	1
-607	1.11	7.75	2.90	0	1
-604	12.78	7.25	2.90	0	1
-601	13.72	6.75	2.90	0	1
-598	28.10	5.22	2.90	0	1
-595	26.96	5.22	2.90	0	1
-592	24.00	5.22	2.90	0	1
-589	21.70	5.22	2.90	0	1
-586	20.44	5.22	2.90	0	1
-583	6.35	17.48	2.87	0	1
-580	12.39	11.90	2.85	0	1
-577	11.25	11.90	2.85	0	1
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-571	6.35	10.00	2.85	0	1
-568	11.25	8.75	2.85	0	1
-565	6.35	8.20	2.85	0	1
-562	11.25	7.25	2.85	0	1
-559	15.53	5.22	2.85	0	1
-556	12.78	5.22	2.85	0	1
-552	14.68	7.25	2.76	0	1
-546	1.11	19.90	2.42	0	1
-543	9.35	17.90	2.42	0	1
-540	7.85	17.90	2.42	0	1
-537	6.35	17.90	2.42	0	1
-534	27.34	11.90	2.42	0	1
-531	25.32	11.90	2.42	0	1
-528	24.00	11.90	2.42	0	1
-525	18.72	11.90	2.42	0	1
-522	15.26	11.90	2.42	0	1
-519	14.68	8.75	2.42	0	1
-516	12.78	8.25	2.42	0	1
-513	1.88	7.75	2.42	0	1
-510	0.73	7.75	2.42	0	1
-507	12.78	7.25	2.42	0	1
-504	14.20	6.75	2.42	0	1
-501	12.78	6.75	2.42	0	1
-498	27.34	5.22	2.42	0	1
-495	24.43	5.22	2.42	0	1
-492	23.10	5.22	2.42	0	1
-489	20.86	5.22	2.42	0	1
-486	19.60	5.22	2.42	0	1
-483	12.78	11.90	2.38	0	1
-480	11.63	11.90	2.38	0	1
-477	10.30	11.90	2.38	0	1
-474	6.35	10.45	2.38	0	1
-471	6.35	9.10	2.38	0	1
-468	11.25	8.25	2.38	0	1
-465	6.35	7.75	2.38	0	1
-462	16.00	5.22	2.38	0	1
-459	14.68	5.22	2.38	0	1
-456	11.72	5.22	2.38	0	1
-453	1.49	19.90	1.93	0	1
-450	0.35	19.90	1.93	0	1
-447	8.35	17.90	1.93	0	1

-446	7.85	17.90	1.93	0	1
-443	6.35	17.90	1.93	0	1
-440	27.34	11.90	1.93	0	1
-437	25.32	11.90	1.93	0	1
-434	24.00	11.90	1.93	0	1
-431	18.72	11.90	1.93	0	1
-428	15.26	11.90	1.93	0	1
-425	14.68	8.75	1.93	0	1
-422	12.78	8.25	1.93	0	1
-419	1.88	7.75	1.93	0	1
-416	0.73	7.75	1.93	0	1
-413	12.78	7.25	1.93	0	1
-410	13.72	6.75	1.93	0	1
-407	28.10	5.22	1.93	0	1
-404	26.96	5.22	1.93	0	1
-401	24.00	5.22	1.93	0	1
-398	21.70	5.22	1.93	0	1
-395	20.44	5.22	1.93	0	1
-392	6.35	17.48	1.92	0	1
-389	12.39	11.90	1.90	0	1
-386	11.25	11.90	1.90	0	1
-383	9.82	11.90	1.90	0	1
-380	6.35	10.00	1.90	0	1
-377	11.25	8.75	1.90	0	1
-374	6.35	8.20	1.90	0	1
-371	11.25	7.25	1.90	0	1
-368	15.53	5.22	1.90	0	1
-365	12.78	5.22	1.90	0	1
-362	11.25	5.22	1.90	0	1
-359	1.11	19.90	1.45	0	1
-356	9.35	17.90	1.45	0	1
-353	7.85	17.90	1.45	0	1
-350	6.35	17.90	1.45	0	1
-347	27.34	11.90	1.45	0	1
-344	25.32	11.90	1.45	0	1
-341	24.00	11.90	1.45	0	1
-338	18.72	11.90	1.45	0	1
-335	15.26	11.90	1.45	0	1
-332	14.68	8.75	1.45	0	1
-329	12.78	8.25	1.45	0	1
-326	1.88	7.75	1.45	0	1
-323	0.73	7.75	1.45	0	1
-320	12.78	7.25	1.45	0	1
-317	13.72	6.75	1.45	0	1
-314	28.10	5.22	1.45	0	1
-311	26.96	5.22	1.45	0	1
-308	24.00	5.22	1.45	0	1
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-299	6.35	17.48	1.44	0	1
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-287	6.35	10.00	1.43	0	1
-284	11.25	8.75	1.43	0	1
-281	6.35	8.20	1.43	0	1
-278	11.25	7.25	1.43	0	1
-275	15.53	5.22	1.43	0	1
-272	12.78	5.22	1.43	0	1
-269	11.25	5.22	1.43	0	1
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-263	9.35	17.90	0.97	0	1
-260	7.85	17.90	0.97	0	1
-257	6.35	17.90	0.97	0	1
-254	27.34	11.90	0.97	0	1
-251	25.32	11.90	0.97	0	1
-248	24.00	11.90	0.97	0	1
-245	18.72	11.90	0.97	0	1
-242	15.26	11.90	0.97	0	1
-239	14.68	8.75	0.97	0	1
-236	12.78	8.25	0.97	0	1
-233	1.88	7.75	0.97	0	1
-230	0.73	7.75	0.97	0	1
-227	12.78	7.25	0.97	0	1
-224	13.72	6.75	0.97	0	1
-221	28.10	5.22	0.97	0	1
-218	26.96	5.22	0.97	0	1
-215	24.00	5.22	0.97	0	1
-212	21.70	5.22	0.97	0	1
-209	20.44	5.22	0.97	0	1
-206	6.35	17.48	0.96	0	1
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-200	11.25	11.90	0.95	0	1
-197	9.82	11.90	0.95	0	1

-445	7.35	17.90	1.93	0	1
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-433	19.60	11.90	1.93	0	1
-430	18.27	11.90	1.93	0	1
-427	14.82	11.90	1.93	0	1
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-421	14.68	7.75	1.93	0	1
-418	1.49	7.75	1.93	0	1
-415	0.35	7.75	1.93	0	1
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-400	23.55	5.22	1.93	0	1
-397	21.28	5.22	1.93	0	1
-394	20.02	5.22	1.93	0	1
-391	6.35	17.05	1.90	0	1
-388	12.01	11.90	1.90	0	1
-385	10.78	11.90	1.90	0	1
-382	9.35	11.90	1.90	0	1
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-352	7.35	17.90	1.45	0	1
-349	28.10	11.90	1.45	0	1
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-343	24.88	11.90	1.45	0	1
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-337	18.27	11.90	1.45	0	1
-334	14.82	11.90	1.45	0	1
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-244	18.27	11.90	0.97	0	1
-241	14.82	11.90	0.97	0	1
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-235	14.68	7.75	0.97	0	1
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-229	0.35	7.75	0.97	0	1
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-396	20.86	5.22	1.93	0	1
-393	19.60	5.22	1.93	0	1
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-387	11.63	11.90	1.90	0	1
-384	10.30	11.90	1.90	0	1
-381	6.35	10.45	1.90	0	1
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-354	8.35	17.90	1.45	0	1
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-345	26.57	11.90	1.45	0	1
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-273	14.68	5.22	1.43	0	1
-270	11.72	5.22	1.43	0	1
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-258	6.85	17.90	0.97	0	1
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-252	26.57	11.90	0.97	0	1
-249	24.44	11.90	0.97	0	1
-246	19.16	11.90	0.97	0	1
-243	15.70	11.90	0.97	0	1
-240	14.38	11.90	0.97	0	1
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-234	12.78	7.75	0.97	0	1
-231	1.11	7.75	0.97	0	1
-228	14.68	7.25	0.97	0	1
-225	14.20	6.75	0.97	0	1
-222	12.78	6.75	0.97	0	1
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-213	23.10	5.22	0.97	0	1
-210	20.86	5.22	0.97	0	1
-207	19.60	5.22	0.97	0	1
-204	12.78	11.90	0.95	0	1
-201	11.63	11.90	0.95	0	1
-198	10.30	11.90	0.95	0	1
-195	6.35	10.45	0.95	0	1

-194	6.35	10.00	0.95	0	1
-191	11.25	8.75	0.95	0	1
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-185	11.25	7.25	0.95	0	1
-182	15.53	5.22	0.95	0	1
-179	12.78	5.22	0.95	0	1
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-173	1.11	19.90	0.48	0	1
-170	9.35	17.90	0.48	0	1
-167	7.85	17.90	0.48	0	1
-164	6.35	17.90	0.48	0	1
-161	27.34	11.90	0.48	0	1
-158	25.32	11.90	0.48	0	1
-155	24.00	11.90	0.48	0	1
-152	18.72	11.90	0.48	0	1
-149	15.26	11.90	0.48	0	1
-146	14.68	8.75	0.48	0	1
-143	12.78	8.25	0.48	0	1
-140	1.88	7.75	0.48	0	1
-137	0.73	7.75	0.48	0	1
-134	12.78	7.25	0.48	0	1
-131	13.72	6.75	0.48	0	1
-128	28.10	5.22	0.48	0	1
-125	26.96	5.22	0.48	0	1
-122	24.00	5.22	0.48	0	1
-119	21.70	5.22	0.48	0	1
-116	20.44	5.22	0.48	0	1
-113	6.35	17.48	0.48	0	1
-110	12.39	11.90	0.47	0	1
-107	11.25	11.90	0.47	0	1
-104	9.82	11.90	0.47	0	1
-101	6.35	10.00	0.47	0	1
-98	11.25	8.75	0.47	0	1
-95	6.35	8.20	0.47	0	1
-92	11.25	7.25	0.47	0	1
-89	15.53	5.22	0.47	0	1
-86	12.78	5.22	0.47	0	1
-83	11.25	5.22	0.47	0	1
-80	1.11	19.90	0.00	0	2
-77	8.35	17.90	0.00	0	2
-74	6.85	17.90	0.00	0	2
-71	27.72	11.90	0.00	0	2
-68	26.57	11.90	0.00	0	2
-65	24.44	11.90	0.00	0	2
-62	18.27	11.90	0.00	0	2
-59	14.38	11.90	0.00	0	2
-56	12.01	11.90	0.00	0	2
-53	10.78	11.90	0.00	0	2
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-47	6.35	9.10	0.00	0	2
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-35	1.49	7.75	0.00	0	2
-32	14.68	7.25	0.00	0	2
-29	14.68	6.75	0.00	0	2
-26	13.25	6.75	0.00	0	2
-23	11.25	6.37	0.00	0	2
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-17	26.57	5.22	0.00	0	2
-14	23.55	5.22	0.00	0	2
-11	20.44	5.22	0.00	0	2
-8	15.05	5.22	0.00	0	2
-5	13.62	5.22	0.00	0	2
-2	12.20	5.22	0.00	0	2
2	12.40	0.30	0.00	0	2
5	16.00	0.30	0.00	0	2
8	19.60	0.30	0.00	0	2
13	11.25	4.11	0.00	0	2
16	19.60	5.22	0.00	0	2
19	28.10	5.22	0.00	0	2
22	6.35	7.75	0.00	0	2
25	28.10	10.00	0.00	0	2
28	15.70	11.90	0.00	0	2
31	28.10	11.90	0.00	0	2
34	0.35	16.00	0.00	0	2
37	9.35	17.90	0.00	0	2
40	19.77	17.90	0.00	0	2
43	28.10	17.90	0.00	0	2
46	6.35	11.90	5.34	0	1
49	24.00	11.90	6.02	0	1
101	11.25	0.30	3.80	1	1
104	14.40	0.30	3.80	1	1
107	18.60	0.30	3.80	1	1

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-190	6.35	8.65	0.95	0	1
-187	11.25	7.75	0.95	0	1
-184	11.25	6.75	0.95	0	1
-181	15.05	5.22	0.95	0	1
-178	12.20	5.22	0.95	0	1
-175	1.88	19.90	0.48	0	1
-172	0.73	19.90	0.48	0	1
-169	8.85	17.90	0.48	0	1
-166	7.35	17.90	0.48	0	1
-163	28.10	11.90	0.48	0	1
-160	26.96	11.90	0.48	0	1
-157	24.88	11.90	0.48	0	1
-154	19.60	11.90	0.48	0	1
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-145	12.78	8.75	0.48	0	1
-142	14.68	7.75	0.48	0	1
-139	1.49	7.75	0.48	0	1
-136	0.35	7.75	0.48	0	1
-133	14.68	6.75	0.48	0	1
-130	13.25	6.75	0.48	0	1
-127	27.72	5.22	0.48	0	1
-124	26.57	5.22	0.48	0	1
-121	23.55	5.22	0.48	0	1
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-115	20.02	5.22	0.48	0	1
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-106	10.78	11.90	0.47	0	1
-103	9.35	11.90	0.47	0	1
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-97	6.35	8.65	0.47	0	1
-94	11.25	7.75	0.47	0	1
-91	11.25	6.75	0.47	0	1
-88	15.05	5.22	0.47	0	1
-85	12.20	5.22	0.47	0	1
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-79	0.73	19.90	0.00	0	2
-76	7.85	17.90	0.00	0	2
-73	6.35	17.90	0.00	0	2
-70	27.34	11.90	0.00	0	2
-67	25.32	11.90	0.00	0	2
-64	19.16	11.90	0.00	0	2
-61	15.26	11.90	0.00	0	2
-58	12.78	11.90	0.00	0	2
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-46	14.68	8.75	0.00	0	2
-43	6.35	8.65	0.00	0	2
-40	11.25	8.25	0.00	0	2
-37	12.78	7.75	0.00	0	2
-34	1.11	7.75	0.00	0	2
-31	12.78	7.25	0.00	0	2
-28	14.20	6.75	0.00	0	2
-25	12.78	6.75	0.00	0	2
-22	11.25	5.99	0.00	0	2
-19	27.34	5.22	0.00	0	2
-16	24.43	5.22	0.00	0	2
-13	21.28	5.22	0.00	0	2
-10	20.02	5.22	0.00	0	2
-7	14.68	5.22	0.00	0	2
-4	13.15	5.22	0.00	0	2
-1	11.72	5.22	0.00	0	2
3	13.40	0.30	0.00	0	2
6	17.60	0.30	0.00	0	2
9	20.60	0.30	0.00	0	2
14	11.25	5.22	0.00	0	2
17	21.70	5.22	0.00	0	2
20	28.10	6.90	0.00	0	2
23	11.25	7.75	0.00	0	2
26	6.35	10.45	0.00	0	2
29	19.60	11.90	0.00	0	2
32	0.35	13.82	0.00	0	2
35	6.35	17.05	0.00	0	2
38	13.57	17.90	0.00	0	2
41	21.90	17.90	0.00	0	2
44	0.35	19.90	0.00	0	2
47	11.25	11.90	5.34	0	1
50	0.35	13.82	6.05	0	1
102	12.40	0.30	3.80	1	1
105	16.00	0.30	3.80	1	1
108	19.60	0.30	3.80	1	1

-192	6.35	9.10	0.95	0	1
-189	11.25	8.25	0.95	0	1
-186	6.35	7.75	0.95	0	1
-183	16.00	5.22	0.95	0	1
-180	14.68	5.22	0.95	0	1
-177	11.72	5.22	0.95	0	1
-174	1.49	19.90	0.48	0	1
-171	0.35	19.90	0.48	0	1
-168	8.35	17.90	0.48	0	1
-165	6.85	17.90	0.48	0	1
-162	27.72	11.90	0.48	0	1
-159	26.57	11.90	0.48	0	1
-156	24.44	11.90	0.48	0	1
-153	19.16	11.90	0.48	0	1
-150	15.70	11.90	0.48	0	1
-147	14.38	11.90	0.48	0	1
-144	14.68	8.25	0.48	0	1
-141	12.78	7.75	0.48	0	1
-138	1.11	7.75	0.48	0	1
-135	14.68	7.25	0.48	0	1
-132	14.20	6.75	0.48	0	1
-129	12.78	6.75	0.48	0	1
-126	27.34	5.22	0.48	0	1
-123	24.43	5.22	0.48	0	1
-120	23.10	5.22	0.48	0	1
-117	20.86	5.22	0.48	0	1
-114	19.60	5.22	0.48	0	1
-111	12.78	11.90	0.47	0	1
-108	11.63	11.90	0.47	0	1
-105	10.30	11.90	0.47	0	1
-102	6.35	10.45	0.47	0	1
-99	6.35	9.10	0.47	0	1
-96	11.25	8.25	0.47	0	1
-93	6.35	7.75	0.47	0	1
-90	16.00	5.22	0.47	0	1
-87	14.68	5.22	0.47	0	1
-84	11.72	5.22	0.47	0	1
-81	1.49	19.90	0.00	0	2
-78	8.85	17.90	0.00	0	2
-75	7.35	17.90	0.00	0	2
-72	6.35	17.48	0.00	0	2
-69	26.96	11.90	0.00	0	2
-66	24.88	11.90	0.00	0	2
-63	18.72	11.90	0.00	0	2
-60	14.82	11.90	0.00	0	2
-57	12.39	11.90	0.00	0	2
-54	11.25	11.90	0.00	0	2
-51	9.82	11.90	0.00	0	2
-48	6.35	9.55	0.00	0	2
-45	12.78	8.75	0.00	0	2
-42	14.68	8.25	0.00	0	2
-39	6.35	8.20	0.00	0	2
-36	1.88	7.75	0.00	0	2
-33	0.73	7.75	0.00	0	2
-30	11.25	7.25	0.00	0	2
-27	13.72	6.75	0.00	0	2
-24	11.25	6.75	0.00	0	2
-21	11.25	5.61	0.00	0	2
-18	26.96	5.22	0.00	0	2
-15	24.00	5.22	0.00	0	2
-12	20.86	5.22	0.00	0	2
-9	15.53	5.22	0.00	0	2
-6	14.10	5.22	0.00	0	2
-3	12.78	5.22	0.00	0	2
1	11.25	0.30	0.00	0	2
4	14.40	0.30	0.00	0	2
7	18.60	0.30	0.00	0	2
10	21.55	0.30	0.00	0	2
15	16.00	5.22	0.00	0	2
18	23.10	5.22	0.00	0	2
21	0.35	7.75	0.00	0	2
24	28.10	8.45	0.00	0	2
27	0.35	11.65	0.00	0	2
30	24.00	11.90	0.00	0	2
33	6.35	13.82	0.00	0	2
36	9.35	17.05	0.00	0	2
39	15.70	17.90	0.00	0	2
42	25.98	17.90	0.00	0	2
45	6.35	19.90	0.00	0	2
48	15.70	11.90	6.02	0	1
51	6.35	13.82	6.05	0	1
103	13.40	0.30	3.80	1	1
106	17.60	0.30	3.80	1	1
109	20.60	0.30	3.80	1	1

110	21.55	0.30	3.80	1	1
116	19.60	5.22	3.80	1	1
119	28.10	5.22	3.80	1	1
122	6.35	7.75	3.80	1	1
125	28.10	10.00	3.80	1	1
128	15.70	11.90	3.80	1	1
131	28.10	11.90	3.80	1	1
134	0.35	16.00	3.80	1	1
137	9.35	17.90	3.80	1	1
140	19.77	17.90	3.80	1	1
143	28.10	17.90	3.80	1	1
146	16.00	8.75	3.80	1	1
214	11.25	5.22	6.60	2	1
217	21.70	5.22	6.60	2	1
224	28.10	8.45	6.60	2	1
231	28.10	11.90	6.60	2	1
323	11.25	7.75	7.48	0	1
326	15.43	5.22	7.72	0	1
329	23.85	11.90	7.72	0	1
336	11.05	3.82	0.00	0	2

114	11.25	5.22	3.80	1	1
117	21.70	5.22	3.80	1	1
120	28.10	6.90	3.80	1	1
123	11.25	7.75	3.80	1	1
126	6.35	10.45	3.80	1	1
129	19.60	11.90	3.80	1	1
132	0.35	13.82	3.80	1	1
135	6.35	17.05	3.80	1	1
138	13.57	17.90	3.80	1	1
141	21.90	17.90	3.80	1	1
144	0.35	19.90	3.80	1	1
147	9.35	11.90	3.80	1	1
215	16.00	5.22	6.60	2	1
219	28.10	5.22	6.60	2	1
225	28.10	10.00	6.60	2	1
232	11.25	11.90	6.60	2	1
324	28.10	8.45	7.72	0	1
327	23.85	5.22	7.72	0	1
334	0.35	3.82	0.00	0	2

115	16.00	5.22	3.80	1	1
118	23.10	5.22	3.80	1	1
121	0.35	7.75	3.80	1	1
124	28.10	8.45	3.80	1	1
127	0.35	11.65	3.80	1	1
130	24.00	11.90	3.80	1	1
133	6.35	13.82	3.80	1	1
136	9.35	17.05	3.80	1	1
139	15.70	17.90	3.80	1	1
142	25.98	17.90	3.80	1	1
145	6.35	19.90	3.80	1	1
148	11.25	11.90	3.80	1	1
216	19.60	5.22	6.60	2	1
220	28.10	6.90	6.60	2	1
229	19.60	11.90	6.60	2	1
320	28.10	6.90	7.18	0	1
325	28.10	10.00	7.22	0	1
328	15.43	11.90	7.72	0	1
335	6.35	3.82	0.00	0	2

Elenco materiali

Simbologia

α = Coeff. di dilatazione termica
ν = Coeff. di Poisson
Comm. = Commento
E = Modulo elastico
G = Modulo elastico tangenziale
Mat. = Numero del materiale
P = Peso specifico

Mat.	Comm.	P <daN/mc>	E <daN/cmq>	G <daN/cmq>	ν	α
5	Calcestruzzo classe C25/30	2500	314472.00	142942.00	0.1	1.00E-05
18	Acciaio	7850	2100000.00	800000.00	0.3	1.00E-05

Elenco sezioni aste

Simbologia

% = Pendenza ala
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
  2Cdx = Doppia C lato costola
  L = Sezione a L
  R = Rettangolare
  T = Sezione a T
  Cs = C stondata
  Is = I stondata
Ver. = Verifica prevista
  C = Cemento armato
  A = Acciaio
a = Spessore anima
b = Base inferiore
h = Altezza parte inf.
r = Raggio raccordo anima-ala
r1 = Raggio in testa ala
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_SA_30X30	R	P	C	30.00		30.00								5	1		
2	PIL_SA_20X35	R	P	C	20.00		35.00								5	1		
3	PIL_SA_25X60	R	P	C	25.00		60.00								5	1		
4	PIL_SA_30X35	R	P	C	30.00		35.00								5	1		
5	PIL_SA_30X45	R	P	C	30.00		45.00								5	1		
6	PIL_SA_20X40	R	P	C	20.00		40.00								5	1		
7	PIL_SA_20X30	R	P	C	20.00		30.00								5	1		
8	TR_SA_30X33.5	R	T	C	30.00		33.50								5	1		
9	TR_SA_30X56	R	T	C	30.00		56.00								5	1		
10	TR_SA_30X42.5	R	T	C	30.00		42.50								5	1		
11	TR_SA_30X40	R	T	C	30.00		40.00								5	1		
12	TR_SA_30X28.5	R	T	C	30.00		28.50								5	1		
13	TR_SA_L45X56	L	T	C	30.00	45.00	16.00	40.00							5	1		
14	TR_SA_L20X50	L	T	C	20.00	30.00	34.00	16.00							5	1		

15	TR_SA_30X50	R	T	C	30.00		50.00								5	1		
16	TR_SA_L37.5X56	L	T	C	30.00	37.50	16.00	40.00							5	1		
17	TR_SA_30X73.5	R	T	C	30.00		73.50								5	1		
18	TR_SA_30X73	R	T	C	30.00		73.00								5	1		
19	TR_SA_40X20	R	T	C	40.00		20.00								5	1		
20	TR_SA_T30X135X65	T	T	C	135.00	35.00	20.00	45.00							5	1		
21	TR_SA_L30X60	L	T	C	60.00	30.00	20.00	40.00							5	1		
22	TR_SA_25X50	R	T	C	25.00		50.00								5	1		
23	TR_SA_L35X65	L	T	C	60.00	35.00	20.00	45.00							5	1		
24	TR_SA_67.5X20	R	T	C	67.50		20.00								5	1		
25	TR_SA_L30X50	L	T	C	60.00	30.00	20.00	30.00							5	1		
26	TR_SA_30X55	R	T	C	30.00		55.00								5	1		
27	TR_SA_45X40	R	T	C	45.00		40.00								5	1		
28	TR_FOND_TIPO 1	T	T	C	45.00	120.00	60.00	20.00							5	1		
29	TR_FOND_TIPO 2	T	T	C	45.00	130.00	60.00	20.00							5	1		
30	TR_SP_30X50	R	T	C	30.00		50.00								5	2		
31	PIL_SP_20X40	R	P	C	20.00		40.00								5	3		
33	TR_SP_30X16	R	T	C	30.00		16.00								5	3		
35	TR_SP_30X40	R	T	C	30.00		40.00								5	2		
36	HEB160	Is	P	A	16.00		16.00		1.30	0.80	1.50	0.00	0.00		18	1	1	2
37	IPE240	Is	T	A	12.00		24.00		0.98	0.62	1.50	0.00	0.00		18	2	2	2
38	2UPN160	2Cdx	T	A	6.50		16.00		1.05	0.75	1.05	0.55	8.00	1.00	18	1	2	2
39	UPN160	Cs	T	A	6.50		16.00		1.05	0.75	1.05	0.55	8.00		18	1	2	2
40	TR_FOND_SP	T	T	C	30.00	90.00	65.00	30.00							5	2		

Elenco vincoli aste

Simbologia

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

Va	Comm.	Tipo	Ni	Tyi	Tzi	Mxi	Myi	Mzi	Nf	Tyf	Tzf	Mxf	Myf	Mzf	Kt <daN/cmc>
1	Inc+Inc	SVI	1	1	1	1	1	1	1	1	1	1	1	1	
2	Inc+Cer	SVI	1	1	1	1	1	1	1	1	1	0	0	0	
6	CerY+Inc	SVI	1	1	1	1	0	1	1	1	1	1	1	1	
7	CerY+CerY	SVI	1	1	1	1	0	1	1	1	1	1	0	1	
31	WINKLER	ELA													5.00

Elenco aste

Simbologia

Asta = Numero dell'asta
Dy1 = Scost. filo fisso Y1
Dy2 = Scost. filo fisso Y2
Dz1 = Scost. filo fisso Z1
Dz2 = Scost. filo fisso Z2
FF = Filo fisso
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
N1 = Nodo iniziale
N2 = Nodo finale
Par. = Numero dei parametri aggiuntivi
Rot. = Rotazione
Sez. = Numero della sezione
TC1 = Tipo collegamento iniziale
TC2 = Tipo collegamento finale
Va = Numero del vincolo asta

Asta	N1	N2	Sez.	Va	Par.	Rot. <grad>	FF	Dy1 <cm>	Dy2 <cm>	Dz1 <cm>	Dz2 <cm>	TC1	TC2	Kt <daN/cmc>
0	334	335	40	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	21	-33	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-33	-34	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-34	-35	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-35	-36	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	27	21	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-36	22	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	121	-749	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	

0	1	2	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	335	336	40	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	32	27	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	2	3	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	1	13	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	3	4	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-39	22	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-43	-39	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-47	-43	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	34	32	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-48	-47	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	122	-750	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	4	5	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	13	14	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-49	-48	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	22	23	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	26	-49	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	14	-21	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	14	-1	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-21	-22	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	5	6	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	50	51		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-1	-2	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-22	-23	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-2	-3	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-23	-24	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-269	-270		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-3	-4	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-270	-271		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-24	-30	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-277	-269		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-271	-272		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-277	-185		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	44	34	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	6	7	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	33	26	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-4	-5	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-30	23	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-185	-94		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-5	-6	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-315	-272		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-272	-459		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	23	-94	3	1		90.00	44	5.00	5.00	30.00	30.00	ND	ND	
0	23	-40	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-277	-315		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-94	-40		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-94	-187	3	1		90.00	44	5.00	5.00	30.00	30.00	ND	ND	
0	-40	-44	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-187	-280	3	1		90.00	44	5.00	5.00	30.00	30.00	ND	ND	
0	-280	-373	3	1		90.00	44	5.00	5.00	30.00	30.00	ND	ND	
0	-373	-466	3	1		90.00	44	5.00	5.00	30.00	30.00	ND	ND	
0	-466	-564	3	1		90.00	44	5.00	5.00	30.00	30.00	ND	ND	
0	7	8	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-6	-7	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-227	-315		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-7	-8	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-40	-41		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-141	-227		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-315	-410		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-459	-460		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	8	9	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	44	-79	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-8	-9	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-45	-44		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-41	-141		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-564	-665	3	1		90.00	44	5.00	5.00	30.00	30.00	ND	ND	
0	-665	123	3	1		90.00	44	5.00	5.00	30.00	30.00	ND	ND	
0	-1097	-1099	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	-79	-80	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	15	-90	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-183	-276	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-460	-461		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-505	-459		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-410	-505		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-80	-81	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-90	-183	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-369	-462	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-462	-560	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-44	-54	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-981	-980		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-9	15	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-276	-369	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-461	-462		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-560	-661	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	

0	-45	-41		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-661	115	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	9	10	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-50	-51	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-81	-82	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-505	-552		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	35	33	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-51	-52	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-52	-53	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-53	-54	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-54	-55	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-805	148		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-72	35	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-55	-56	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	36	-50	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-56	-57	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	46	-942		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	147	-803		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-73	-72	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-58	-59	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-981	51		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-803	-804		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-942	-970		1		0.00	11	0.00	0.00	0.00	-62.50	ND	ND	
0	-942	-943		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-60	-61	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-970	-997		1		0.00	11	0.00	0.00	0.00	-62.50	ND	ND	
0	-942	-981		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-943	-944		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-997	-1026		1		0.00	11	0.00	0.00	0.00	-62.50	ND	ND	
0	-998	-997		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-506	-462		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-505	-506		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-552	-653		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-57	-58	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-804	-805		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-944	-945		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	115	146		1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	-393	-486	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-59	-60	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	38	39	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-1026	-1043		1		0.00	11	0.00	0.00	0.00	-62.50	ND	ND	
0	-999	-998		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-1043	-1044		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-945	47		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-1000	-999		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-1044	-1045		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-1001	-1000		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	15	16	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-653	-746		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-1046	232		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-746	-799		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-506	146		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	-82	45	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	10	17	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	16	-10	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	16	-114	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-114	-207	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-207	-300	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-300	-393	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	35	36	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-12	-13	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-13	17	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-584	-685	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-685	116	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-872	-873		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-772	116	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	37	36	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-835	-836		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	17	-119	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-486	-584	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-690	117	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-61	28	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-1045	-1046		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	45	-73	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-873	-874		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-861	-872		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-10	-11	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-11	-12	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-1048	328		1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	-839	-861		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-836	-839		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	-119	-212	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-212	-305	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-305	-398	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	

0	-398	-491	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	-589	-690	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	28	-150	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-150	-243	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-243	-336	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-429	-523	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-619	-720	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	17	18	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	18	-14	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-491	-589	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
0	137	-835		1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
0	28	-62	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-336	-429	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-523	-619	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-720	128	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-14	-15	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-15	-16	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-773	-766	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	37	38	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-62	-63	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-16	-17	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-63	-64	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-64	29	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	29	-154	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-154	-247	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-247	-340	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-340	-433	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-433	-527	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	29	30	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	326	-1048		1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	137	-747		1		0.00	33	0.00	0.00	0.00	4.19	ND	ND	
0	-527	-623	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-623	-724	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-724	129	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-17	-18	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-19	-20	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	19	20	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	39	40	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	20	24	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	30	-65	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-65	-66	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-155	-248	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-248	-341	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-1005	229	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-18	-19	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-20	19	29	31		0.00	22	0.00	0.00	0.00	0.00	ND	ND	5.00
0	30	-155	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-66	-67	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-341	-434	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-67	-68	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-434	-528	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-528	-624	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	-68	-69	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-624	-725	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	24	25	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-69	-70	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-70	-71	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-725	130	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
0	25	31	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-71	31	29	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	327	-1050		1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	219	220	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	40	41	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-748	-747		1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
0	41	42	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	31	-1051	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-1051	-1055	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-1055	-1054	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	225	231	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	42	43	28	31		0.00	11	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-1054	-1053	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-1053	43	28	31		0.00	33	0.00	0.00	0.00	0.00	ND	ND	5.00
0	-1050	329		1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
0	143	-748		1		0.00	33	0.00	0.00	0.00	4.19	ND	ND	
1	44	-171	1	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
1	-171	-264	1	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
1	-264	-357	1	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
1	-357	-450	1	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
1	-450	-544	1	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
1	-544	-648	1	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
1	-648	-741	1	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
1	-741	144	1	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
2	45	145	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3	37	-170	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	

3	-170	-263	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3	-263	-356	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3	-356	-449	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3	-449	-543	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3	-543	-641	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3	-641	-740	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3	-740	137	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
4	38	-642	2	1		90.00	22	0.00	0.00	0.00	0.00	ND	ND	
4	-642	138	2	1		90.00	22	0.00	0.00	0.00	0.00	ND	ND	
5	39	-643	1	1		0.00	44	0.00	0.00	0.00	0.00	ND	ND	
5	-643	139	1	1		0.00	44	0.00	0.00	0.00	0.00	ND	ND	
6	40	-644	2	1		90.00	22	0.00	0.00	0.00	0.00	ND	ND	
6	-644	140	2	1		90.00	22	0.00	0.00	0.00	0.00	ND	ND	
7	41	-645	1	1		0.00	44	0.00	0.00	0.00	0.00	ND	ND	
7	-645	141	1	1		0.00	44	0.00	0.00	0.00	0.00	ND	ND	
8	42	-646	2	1		90.00	22	0.00	0.00	0.00	0.00	ND	ND	
8	-646	142	2	1		90.00	22	0.00	0.00	0.00	0.00	ND	ND	
9	43	-1071	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
9	-1071	-1070	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
9	-1070	-1069	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
9	-1069	-1068	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
9	-1068	-1067	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
9	-1067	-647	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
9	-647	-1066	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
9	-1066	143	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
10	35	-112	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
10	-112	-205	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
10	-205	-298	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
10	-298	-391	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
10	-391	-484	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
10	-484	-582	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
10	-582	-683	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
10	-683	135	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
11	36	136	1	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
12	34	-634	2	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
12	-634	134	2	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
13	32	-633	1	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
13	-633	132	1	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
13	132	50	1	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
14	33	133	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
14	133	51	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
15	27	-615	2	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
15	-615	127	2	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
17	128	48	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
18	129	-871	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
18	-871	-903	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
18	-903	-932	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
18	-932	-960	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
18	-960	-1005	4	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
19	130	49	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
20	31	-163	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-163	-256	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-256	-349	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-349	-442	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-442	-536	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-536	-632	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-632	-733	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-733	131	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	131	-860	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-860	-893	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-893	-922	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-922	-950	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-950	-979	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-979	-1010	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
20	-1010	231	4	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
21	26	-102	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
21	-102	-195	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
21	-195	-288	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
21	-288	-381	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
21	-381	-474	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
21	-474	-572	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
21	-572	-673	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
21	-673	126	1	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
22	25	125	6	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
23	24	124	5	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
23	124	224	5	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
23	224	324	5	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
24	21	-136	1	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
24	-136	-229	1	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
24	-229	-322	1	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
24	-322	-415	1	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
24	-415	-509	1	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
24	-509	-605	1	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
24	-605	-707	1	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	

24	-707	121	1	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
25	22	-93	1	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
25	-93	-186	1	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
25	-186	-279	1	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
25	-279	-372	1	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
25	-372	-465	1	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
25	-465	-563	1	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
25	-563	-664	1	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
25	-664	122	1	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
26	123	323	3	1		90.00	44	5.00	5.00	30.00	30.00	ND	ND	
27	20	120	6	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
28	14	-83	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-83	-176	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-176	-269	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-269	-362	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-362	-455	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-455	-1094	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-1094	-654	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-654	114	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	114	-842	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-842	-875	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-875	-904	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-904	-933	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-933	-961	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-961	-982	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-982	-1011	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
28	-1011	214	4	1		0.00	88	0.00	0.00	0.00	0.00	ND	ND	
29	115	215	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
30	116	-862	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
30	-862	-894	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
30	-894	-923	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
30	-923	-951	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
30	-951	-986	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
30	-986	-1015	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
30	-1015	216	4	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
31	117	-867	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
31	-867	-899	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
31	-899	-928	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
31	-928	-956	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
31	-956	-991	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
31	-991	-1020	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
31	-1020	217	1	1		0.00	55	0.00	0.00	0.00	0.00	ND	ND	
32	18	-120	6	1		90.00	55	0.00	0.00	0.00	0.00	ND	ND	
32	-120	-213	6	1		90.00	55	0.00	0.00	0.00	0.00	ND	ND	
32	-213	-306	6	1		90.00	55	0.00	0.00	0.00	0.00	ND	ND	
32	-306	-399	6	1		90.00	55	0.00	0.00	0.00	0.00	ND	ND	
32	-399	-492	6	1		90.00	55	0.00	0.00	0.00	0.00	ND	ND	
32	-492	-590	6	1		90.00	55	0.00	0.00	0.00	0.00	ND	ND	
32	-590	-691	6	1		90.00	55	0.00	0.00	0.00	0.00	ND	ND	
32	-691	118	6	1		90.00	55	0.00	0.00	0.00	0.00	ND	ND	
33	19	-128	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-128	-221	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-221	-314	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-314	-407	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-407	-500	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-500	-598	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-598	-699	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-699	119	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	119	-850	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-850	-883	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-883	-912	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-912	-941	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-941	-969	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-969	-996	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-996	-1025	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
33	-1025	219	4	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
34	1	101	1	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
36	3	103	7	1		90.00	88	0.00	0.00	0.00	0.00	ND	ND	
38	5	105	1	1		0.00	66	0.00	0.00	0.00	0.00	ND	ND	
39	7	107	7	1		90.00	88	0.00	0.00	0.00	0.00	ND	ND	
41	8	108	7	1		90.00	88	0.00	0.00	0.00	0.00	ND	ND	
43	10	110	1	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
101	101	102	17	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
101	102	103	17	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
101	103	104	17	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
101	104	105	17	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
101	105	106	17	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
101	106	107	17	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
101	107	108	17	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
101	108	109	17	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
101	109	110	17	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
102	114	-752	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-752	-753	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-753	-754	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	

102	-754	-755	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-755	-756	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-756	-757	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-757	-758	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-758	-759	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-759	-760	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-760	115	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	115	116	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	116	-761	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-761	-762	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-762	-763	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-763	-764	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	-764	117	16	1		0.00	22	0.00	0.00	16.00	16.00	ND	ND	
102	117	118	27	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
102	118	-765	27	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
102	-765	-766	27	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
102	-766	-767	27	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
102	-767	-768	27	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
102	-768	-769	27	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
102	-769	-770	27	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
102	-770	-771	27	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
102	-771	119	27	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
103	121	-786	8	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
103	-786	-787	8	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
103	-787	-788	8	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
103	-788	-789	8	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
103	-789	122	8	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
103	122	-1097	8	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
103	-1097	123	8	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
105	-806	148	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-807	-806	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-808	-807	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-809	-808	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-810	-809	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-811	-810	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-812	-811	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	128	-812	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-813	128	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-814	-813	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-815	-814	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-816	-815	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	129	-816	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	130	129	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-817	130	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-818	-817	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-819	-818	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-820	-819	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-821	-820	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-822	-821	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	-823	-822	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
105	131	-823	13	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
106	135	136	11	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
107	137	138	12	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
107	138	139	12	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
107	139	140	12	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
107	140	141	12	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
107	141	142	12	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
107	142	143	12	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
108	144	-831	8	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
108	-831	-832	8	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
108	-832	-833	8	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
108	-833	-834	8	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
108	-834	145	8	1		0.00	77	0.00	0.00	0.00	0.00	ND	ND	
110	-641	-642	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
110	-642	-643	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
110	-643	-644	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
110	-644	-645	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
110	-645	-646	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
110	-646	-647	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
111	147	136	9	1		0.00	99	0.00	0.00	-40.00	-40.00	ND	ND	
111	136	137	9	1		0.00	99	0.00	0.00	-40.00	-40.00	ND	ND	
112	114	101	15	1		0.00	33	0.00	0.00	16.00	16.00	ND	ND	
112	-774	114	14	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
112	-775	-774	14	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
112	-776	-775	14	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
112	-777	-776	14	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
112	-783	-777	14	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
112	123	-783	14	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
112	-793	123	14	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
112	-797	-793	14	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
112	148	-797	14	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
113	-615	-605	11	7		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
113	-633	-615	11	7		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
113	-634	-633	11	7		0.00	33	0.00	0.00	0.00	0.00	ND	ND	

113	-648	-634	11	7		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
114	120	119	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
114	124	120	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
114	125	124	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
114	131	125	11	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
114	-1052	131	9	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
114	-1063	-1052	9	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
114	-1064	-1063	9	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
114	-1065	-1064	9	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
114	143	-1065	9	1		0.00	11	0.00	0.00	16.00	16.00	ND	ND	
115	110	117	15	1		0.00	33	0.00	0.00	16.00	16.00	ND	ND	
132	127	121	10	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
132	132	127	10	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
132	134	132	10	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
132	144	134	10	1		0.00	99	0.00	0.00	0.00	0.00	ND	ND	
133	-792	122	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	-796	-792	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	-800	-796	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	-801	-800	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	-802	-801	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	126	-802	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	133	126	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	135	133	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	-824	135	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	-825	-824	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
133	145	-825	9	1		0.00	77	0.00	0.00	-22.50	-22.50	ND	ND	
134	-997	-981	26	1		0.00	33	0.00	0.00	0.00	5.16	ND	ND	
134	-981	137	26	1		0.00	33	0.00	0.00	5.16	33.50	ND	ND	
135	47	123	22	1		0.00	33	0.00	0.00	0.00	40.00	ND	ND	
137	143	-1010	21	1		0.00	11	0.00	0.00	33.50	0.00	ND	ND	
202	214	-1031	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1031	-1032	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1032	-1033	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1033	215	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	215	216	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	216	-1034	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1034	-1035	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1035	-1036	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1036	-1037	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1037	217	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	217	-1038	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1038	-1039	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1039	-1040	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1040	-1041	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1041	-1042	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
202	-1042	219	15	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
205	-1001	48	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	48	-1002	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	-1002	-1003	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	-1003	-1004	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	-1004	-1005	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	-1005	49	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	49	-1006	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	-1006	-1007	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	-1007	-1008	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	-1008	-1009	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
205	-1009	-1010	15	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
215	217	110	25	1		0.00	11	0.00	0.00	-30.00	50.00	ND	ND	
304	-1047	-1048	18	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
304	-1048	-1049	18	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
304	-1049	-1050	18	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
304	-1050	324	18	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
316	-1048	216	19	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
317	216	-1050	19	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
318	-1050	219	19	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
319	214	-1048	19	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
320	-1050	229	19	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
321	-1050	231	19	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
322	-1048	229	19	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
323	-1048	232	19	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
901	-813	146		1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
902	-1096	-772	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
902	129	-1096	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
903	130	-773	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
904	-771	-823	35	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
905	140	129	33	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
906	132	133	33	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
907	-797	-798	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
907	-798	-799	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
907	-799	146	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
907	146	-1096	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
908	220	224	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
908	224	225	30	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
909	-1117	-1110	37	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	

909	-1116	-1117	37	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
909	-1115	-1116	37	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
909	-749	-1115	37	6		0.00	22	0.00	0.00	0.00	0.00	PF	ND	
910	-1114	-1111	37	1		0.00	44	0.00	0.00	0.00	0.00	ND	ND	
910	-1113	-1114	37	1		0.00	44	0.00	0.00	0.00	0.00	ND	ND	
910	-1112	-1113	37	1		0.00	44	0.00	0.00	0.00	0.00	ND	ND	
910	-750	-1112	37	6		0.00	44	0.00	0.00	0.00	0.00	PF	ND	
912	-749	-750	38	7		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
912	-750	-1099	38	7		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
913	-1111	-1110	38	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
913	-1109	-1111	38	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
914	-1117	-1114	38	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
914	-1114	-1120	38	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
915	-1116	-1113	38	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
915	-1113	-1119	38	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
916	-1115	-1112	38	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
916	-1112	-1118	38	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
917	-1125	-1124	39	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
917	-1126	-1125	39	7		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
917	120	220	31	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
917	220	320	31	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
918	125	225	31	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
918	225	325	31	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
1091	50	144	21	1		0.00	11	0.00	0.00	0.00	33.50	ND	ND	
1092	121	50	21	1		0.00	11	0.00	0.00	33.50	0.00	ND	ND	
1101	-874	51	21	1		0.00	11	0.00	0.00	22.47	0.00	ND	ND	
1101	145	-874	21	1		0.00	11	0.00	0.00	33.50	22.47	ND	ND	
1102	46	122	21	1		0.00	11	0.00	0.00	10.62	33.50	ND	ND	
1102	-980	46	21	1		0.00	11	0.00	0.00	6.61	10.62	ND	ND	
1102	51	-980	21	1		0.00	11	0.00	0.00	2.28	6.61	ND	ND	
3021	327	219	24	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
3022	216	327	24	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
3023	326	216	24	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
3024	214	326	24	1		0.00	33	0.00	0.00	0.00	0.00	ND	ND	
3051	329	231	24	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
3052	229	329	24	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
3053	328	229	24	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
3054	232	328	24	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
3121	-1047	232	23	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3122	214	323	23	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3122	323	-1047	23	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3123	101	214	25	1		0.00	11	0.00	0.00	50.00	-30.00	ND	ND	
3131	-1049	229	20	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
3132	216	-1049	20	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
3141	325	324	23	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3141	231	325	23	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3142	320	219	23	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
3142	324	320	23	1		0.00	11	0.00	0.00	0.00	0.00	ND	ND	
9141	334	-1110	36	2		90.00	55	0.00	0.00	0.00	0.00	PF	ND	
9142	335	-1111	36	2		90.00	55	0.00	0.00	0.00	0.00	PF	ND	
9143	336	-1109	36	2		90.00	55	0.00	0.00	0.00	0.00	PF	ND	
9152	-1120	-1109	37	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
9152	-1119	-1120	37	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
9152	-1118	-1119	37	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
9152	-1099	-1118	37	6		0.00	22	0.00	0.00	0.00	0.00	PF	ND	
90911	-1110	-1124	37	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	
91011	-1111	-1125	37	1		0.00	44	0.00	0.00	0.00	0.00	ND	ND	
91521	-1109	-1126	37	1		0.00	22	0.00	0.00	0.00	0.00	ND	ND	

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
  P = Parete

Tb	Comm.	Tipo	Uso	Spess. <cm>	Kt <daN/cmc>	DP	Ang. att. <grad>	Coes. <daN/mq>	Ang. dil. <grad>	Crit.	Mat.
1	SETTO_SA_S = 30	F	P	30.00		N	0.00	0.00	0.00	1	5
2	Setto_SP_30	F	P	30.00		N	0.00	0.00	0.00	2	5
3	Setto_SP_20	F	P	20.00		N	0.00	0.00	0.00	2	5
4	Setto_SP_25	F	P	25.00		N	0.00	0.00	0.00	2	5

Elenco elementi bidimensionali

Simbologia

Bid. = Numero del muro/elemento bidimensionale
Dy1 = Scost. filo fisso Y1
Dy2 = Scost. filo fisso Y2
FF = Filo fisso
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
NN = Nodi
Tb = Numero del tipo muro/elemento bidimensionale

Bid.	Tb	FF	Dy1 <cm>	Dy2 <cm>	Kt <daN/cmc>	NN
16	1	33	0.00	0.00		-50 -51 -104 -103
16	1	33	0.00	0.00		-942 -943 -971 -970
16	1	33	0.00	0.00		-944 -945 -973 -972
16	1	33	0.00	0.00		-970 -971 -998 -997
16	1	33	0.00	0.00		-972 -973 -1000 -999
16	1	33	0.00	0.00		-1029 -1030 232 -1046
16	1	33	0.00	0.00		-1027 -1028 -1045 -1044
16	1	33	0.00	0.00		-1026 -1027 -1044 -1043
16	1	33	0.00	0.00		-998 -999 -1028 -1027
16	1	33	0.00	0.00		-803 -804 -853 -852
16	1	33	0.00	0.00		-805 148 -855 -854
16	1	33	0.00	0.00		-852 -853 -886 -885
16	1	33	0.00	0.00		-854 -855 -888 -887
16	1	33	0.00	0.00		-885 -886 -915 -914
16	1	33	0.00	0.00		-887 -888 -917 -916
16	1	33	0.00	0.00		-914 -915 -944 -943
16	1	33	0.00	0.00		-916 -917 47 -945
16	1	33	0.00	0.00		-52 -53 -106 -105
16	1	33	0.00	0.00		-103 -104 -197 -196
16	1	33	0.00	0.00		-105 -106 -199 -198
16	1	33	0.00	0.00		-196 -197 -290 -289
16	1	33	0.00	0.00		-198 -199 -292 -291
16	1	33	0.00	0.00		-289 -290 -383 -382
16	1	33	0.00	0.00		-291 -292 -385 -384
16	1	33	0.00	0.00		-382 -383 -476 -475
16	1	33	0.00	0.00		-384 -385 -478 -477
16	1	33	0.00	0.00		-475 -476 -574 -573
16	1	33	0.00	0.00		-477 -478 -576 -575
16	1	33	0.00	0.00		-573 -574 -675 -674
16	1	33	0.00	0.00		-575 -576 -677 -676
16	1	33	0.00	0.00		-674 -675 -803 147
16	1	33	0.00	0.00		-676 -677 -805 -804
120	2	22	0.00	0.00		-295 -296 -389 -388
120	2	22	0.00	0.00		-386 -387 -480 -479
120	2	22	0.00	0.00		-54 -55 -108 -107
120	2	22	0.00	0.00		-479 -480 -578 -577
120	2	22	0.00	0.00		-481 -482 -580 -579
120	2	22	0.00	0.00		-577 -578 -679 -678
120	2	22	0.00	0.00		-579 -580 -681 -680
120	2	22	0.00	0.00		-678 -679 -806 148
120	2	22	0.00	0.00		-680 -681 -808 -807
120	2	22	0.00	0.00		-109 -110 -203 -202
120	2	22	0.00	0.00		-200 -201 -294 -293
120	2	22	0.00	0.00		-202 -203 -296 -295
120	2	22	0.00	0.00		-293 -294 -387 -386
120	2	22	0.00	0.00		-55 -56 -109 -108
120	2	22	0.00	0.00		-57 -58 -111 -110
120	2	22	0.00	0.00		-108 -109 -202 -201
121	2	22	0.00	0.00		-178 -179 -272 -271
121	2	22	0.00	0.00		-934 -935 -963 -962
121	2	22	0.00	0.00		-456 -457 -555 -554
121	2	22	0.00	0.00		-363 -364 -457 -456
121	2	22	0.00	0.00		-906 -907 -936 -935
121	2	22	0.00	0.00		-176 -177 -270 -269
121	2	22	0.00	0.00		-455 -456 -554 -1094
121	2	22	0.00	0.00		-84 -85 -178 -177
121	2	22	0.00	0.00		114 -752 -843 -842
121	2	22	0.00	0.00		-875 -876 -905 -904
121	2	22	0.00	0.00		14 -1 -84 -83
121	2	22	0.00	0.00		-935 -936 -964 -963
121	2	22	0.00	0.00		-177 -178 -271 -270
121	2	22	0.00	0.00		-843 -844 -877 -876
121	2	22	0.00	0.00		-555 -556 -657 -656
121	2	22	0.00	0.00		-962 -963 -984 -983
121	2	22	0.00	0.00		-983 -984 -1013 -1012
121	2	22	0.00	0.00		-982 -983 -1012 -1011
121	2	22	0.00	0.00		-844 -845 -878 -877
121	2	22	0.00	0.00		-656 -657 -754 -753
121	2	22	0.00	0.00		-876 -877 -906 -905
121	2	22	0.00	0.00		-753 -754 -845 -844
121	2	22	0.00	0.00		-1 -2 -85 -84
121	2	22	0.00	0.00		-933 -934 -962 -961

Bid.	Tb	FF	Dy1 <cm>	Dy2 <cm>	Kt <daN/cmc>	NN
16	1	33	0.00	0.00		147 -803 -852 -851
16	1	33	0.00	0.00		-943 -944 -972 -971
16	1	33	0.00	0.00		-945 47 -974 -973
16	1	33	0.00	0.00		-971 -972 -999 -998
16	1	33	0.00	0.00		-973 -974 -1001 -1000
16	1	33	0.00	0.00		-1028 -1029 -1046 -1045
16	1	33	0.00	0.00		-997 -998 -1027 -1026
16	1	33	0.00	0.00		-999 -1000 -1029 -1028
16	1	33	0.00	0.00		-1000 -1001 -1030 -1029
16	1	33	0.00	0.00		-804 -805 -854 -853
16	1	33	0.00	0.00		-851 -852 -885 -884
16	1	33	0.00	0.00		-853 -854 -887 -886
16	1	33	0.00	0.00		-884 -885 -914 -913
16	1	33	0.00	0.00		-886 -887 -916 -915
16	1	33	0.00	0.00		-913 -914 -943 -942
16	1	33	0.00	0.00		-915 -916 -945 -944
16	1	33	0.00	0.00		-51 -52 -105 -104
16	1	33	0.00	0.00		-53 -54 -107 -106
16	1	33	0.00	0.00		-104 -105 -198 -197
16	1	33	0.00	0.00		-106 -107 -200 -199
16	1	33	0.00	0.00		-197 -198 -291 -290
16	1	33	0.00	0.00		-199 -200 -293 -292
16	1	33	0.00	0.00		-290 -291 -384 -383
16	1	33	0.00	0.00		-292 -293 -386 -385
16	1	33	0.00	0.00		-383 -384 -477 -476
16	1	33	0.00	0.00		-385 -386 -479 -478
16	1	33	0.00	0.00		-476 -477 -575 -574
16	1	33	0.00	0.00		-478 -479 -577 -576
16	1	33	0.00	0.00		-574 -575 -676 -675
16	1	33	0.00	0.00		-576 -577 -678 -677
16	1	33	0.00	0.00		-675 -676 -804 -803
16	1	33	0.00	0.00		-677 -678 148 -805
120	2	22	0.00	0.00		-296 -297 -390 -389
120	2	22	0.00	0.00		-387 -388 -481 -480
120	2	22	0.00	0.00		-389 -390 -483 -482
120	2	22	0.00	0.00		-480 -481 -579 -578
120	2	22	0.00	0.00		-482 -483 -581 -580
120	2	22	0.00	0.00		-578 -579 -680 -679
120	2	22	0.00	0.00		-580 -581 -682 -681
120	2	22	0.00	0.00		-679 -680 -807 -806
120	2	22	0.00	0.00		-681 -682 -809 -808
120	2	22	0.00	0.00		-110 -111 -204 -203
120	2	22	0.00	0.00		-201 -202 -295 -294
120	2	22	0.00	0.00		-203 -204 -297 -296
120	2	22	0.00	0.00		-294 -295 -388 -387
120	2	22	0.00	0.00		-56 -57 -110 -109
120	2	22	0.00	0.00		-107 -108 -201 -200
120	2	22	0.00	0.00		-388 -389 -482 -481
121	2	22	0.00	0.00		-984 -985 -1014 -1013
121	2	22	0.00	0.00		-1094 -554 -655 -654
121	2	22	0.00	0.00		-457 -458 -556 -555
121	2	22	0.00	0.00		-364 -365 -458 -457
121	2	22	0.00	0.00		-654 -655 -752 114
121	2	22	0.00	0.00		-271 -272 -365 -364
121	2	22	0.00	0.00		-83 -84 -177 -176
121	2	22	0.00	0.00		-85 -86 -179 -178
121	2	22	0.00	0.00		-842 -843 -876 -875
121	2	22	0.00	0.00		-362 -363 -456 -455
121	2	22	0.00	0.00		-904 -905 -934 -933
121	2	22	0.00	0.00		-270 -271 -364 -363
121	2	22	0.00	0.00		-963 -964 -985 -984
121	2	22	0.00	0.00		-554 -555 -656 -655
121	2	22	0.00	0.00		-905 -906 -935 -934
121	2	22	0.00	0.00		-1012 -1013 -1032 -1031
121	2	22	0.00	0.00		-1011 -1012 -1031 214
121	2	22	0.00	0.00		-269 -270 -363 -362
121	2	22	0.00	0.00		-752 -753 -844 -843
121	2	22	0.00	0.00		-877 -878 -907 -906
121	2	22	0.00	0.00		-961 -962 -983 -982
121	2	22	0.00	0.00		-655 -656 -753 -752
121	2	22	0.00	0.00		-1013 -1014 -1033 -1032
121	2	22	0.00	0.00		-2 -3 -86 -85

122	2	22	0.00	0.00		-762 -763 -865 -864
122	2	22	0.00	0.00		-686 -687 -762 -761
122	2	22	0.00	0.00		-490 -491 -589 -588
122	2	22	0.00	0.00		-989 -990 -1019 -1018
122	2	22	0.00	0.00		-588 -589 -690 -689
122	2	22	0.00	0.00		-685 -686 -761 116
122	2	22	0.00	0.00		-896 -897 -926 -925
122	2	22	0.00	0.00		-953 -954 -989 -988
122	2	22	0.00	0.00		-951 -952 -987 -986
122	2	22	0.00	0.00		-926 -927 -955 -954
122	2	22	0.00	0.00		-761 -762 -864 -863
122	2	22	0.00	0.00		-587 -588 -689 -688
122	2	22	0.00	0.00		-115 -116 -209 -208
122	2	22	0.00	0.00		-117 -118 -211 -210
122	2	22	0.00	0.00		-207 -208 -301 -300
122	2	22	0.00	0.00		-209 -210 -303 -302
122	2	22	0.00	0.00		-1016 -1017 -1035 -1034
122	2	22	0.00	0.00		-895 -896 -925 -924
122	2	22	0.00	0.00		-303 -304 -397 -396
122	2	22	0.00	0.00		-925 -926 -954 -953
122	2	22	0.00	0.00		-396 -397 -490 -489
122	2	22	0.00	0.00		-763 -764 -866 -865
122	2	22	0.00	0.00		-486 -487 -585 -584
122	2	22	0.00	0.00		-10 -11 -116 -115
122	2	22	0.00	0.00		16 -10 -115 -114
122	2	22	0.00	0.00		-114 -115 -208 -207
122	2	22	0.00	0.00		116 -761 -863 -862
122	2	22	0.00	0.00		-687 -688 -763 -762
122	2	22	0.00	0.00		-894 -895 -924 -923
122	2	22	0.00	0.00		-211 -212 -305 -304
122	2	22	0.00	0.00		-302 -303 -396 -395
122	2	22	0.00	0.00		-986 -987 -1016 -1015
122	2	22	0.00	0.00		-898 -899 -928 -927
122	2	22	0.00	0.00		-990 -991 -1020 -1019
122	2	22	0.00	0.00		-12 -13 -118 -117
122	2	22	0.00	0.00		-897 -898 -927 -926
122	2	22	0.00	0.00		-118 -119 -212 -211
122	2	22	0.00	0.00		-300 -301 -394 -393
123	2	22	0.00	0.00		-947 -948 -977 -976
123	2	22	0.00	0.00		-534 -535 -631 -630
123	2	22	0.00	0.00		-441 -442 -536 -535
123	2	22	0.00	0.00		-70 -71 -162 -161
123	2	22	0.00	0.00		-438 -439 -533 -532
123	2	22	0.00	0.00		-859 -860 -893 -892
123	2	22	0.00	0.00		-630 -631 -732 -731
123	2	22	0.00	0.00		-631 -632 -733 -732
123	2	22	0.00	0.00		-348 -349 -442 -441
123	2	22	0.00	0.00		-892 -893 -922 -921
123	2	22	0.00	0.00		-161 -162 -255 -254
123	2	22	0.00	0.00		-159 -160 -253 -252
123	2	22	0.00	0.00		-71 31 -163 -162
123	2	22	0.00	0.00		-975 -976 -1007 -1006
123	2	22	0.00	0.00		-978 -979 -1010 -1009
123	2	22	0.00	0.00		-918 -919 -947 -946
123	2	22	0.00	0.00		-891 -892 -921 -920
123	2	22	0.00	0.00		-821 -822 -858 -857
123	2	22	0.00	0.00		-890 -891 -920 -919
123	2	22	0.00	0.00		-732 -733 131 -823
123	2	22	0.00	0.00		-347 -348 -441 -440
123	2	22	0.00	0.00		-949 -950 -979 -978
123	2	22	0.00	0.00		-162 -163 -256 -255
123	2	22	0.00	0.00		-345 -346 -439 -438
123	2	22	0.00	0.00		-977 -978 -1009 -1008
123	2	22	0.00	0.00		-976 -977 -1008 -1007
123	2	22	0.00	0.00		-346 -347 -440 -439
123	2	22	0.00	0.00		-255 -256 -349 -348
124	2	22	0.00	0.00		-217 -218 -311 -310
124	2	22	0.00	0.00		-849 -850 -883 -882
124	2	22	0.00	0.00		-20 19 -128 -127
124	2	22	0.00	0.00		-768 -769 -847 -846
124	2	22	0.00	0.00		-847 -848 -881 -880
124	2	22	0.00	0.00		-911 -912 -941 -940
124	2	22	0.00	0.00		-220 -221 -314 -313
124	2	22	0.00	0.00		-18 -19 -126 -125
124	2	22	0.00	0.00		-938 -939 -967 -966
124	2	22	0.00	0.00		-125 -126 -219 -218
124	2	22	0.00	0.00		-1023 -1024 -1042 -1041
124	2	22	0.00	0.00		-994 -995 -1024 -1023
124	2	22	0.00	0.00		-218 -219 -312 -311
124	2	22	0.00	0.00		-992 -993 -1022 -1021
124	2	22	0.00	0.00		-312 -313 -406 -405
124	2	22	0.00	0.00		-881 -882 -911 -910
124	2	22	0.00	0.00		-405 -406 -499 -498
124	2	22	0.00	0.00		-769 -770 -848 -847

122	2	22	0.00	0.00		-489 -490 -588 -587
122	2	22	0.00	0.00		-688 -689 -764 -763
122	2	22	0.00	0.00		-488 -489 -587 -586
122	2	22	0.00	0.00		-955 -956 -991 -990
122	2	22	0.00	0.00		-689 -690 117 -764
122	2	22	0.00	0.00		-764 117 -867 -866
122	2	22	0.00	0.00		-395 -396 -489 -488
122	2	22	0.00	0.00		-584 -585 -686 -685
122	2	22	0.00	0.00		-1018 -1019 -1037 -1036
122	2	22	0.00	0.00		-954 -955 -990 -989
122	2	22	0.00	0.00		-863 -864 -896 -895
122	2	22	0.00	0.00		-952 -953 -988 -987
122	2	22	0.00	0.00		-116 -117 -210 -209
122	2	22	0.00	0.00		-923 -924 -952 -951
122	2	22	0.00	0.00		-208 -209 -302 -301
122	2	22	0.00	0.00		-210 -211 -304 -303
122	2	22	0.00	0.00		-987 -988 -1017 -1016
122	2	22	0.00	0.00		-924 -925 -953 -952
122	2	22	0.00	0.00		-304 -305 -398 -397
122	2	22	0.00	0.00		-394 -395 -488 -487
122	2	22	0.00	0.00		-1019 -1020 217 -1037
122	2	22	0.00	0.00		-397 -398 -491 -490
122	2	22	0.00	0.00		-487 -488 -586 -585
122	2	22	0.00	0.00		-927 -928 -956 -955
122	2	22	0.00	0.00		-866 -867 -899 -898
122	2	22	0.00	0.00		-393 -394 -487 -486
122	2	22	0.00	0.00		-586 -587 -688 -687
122	2	22	0.00	0.00		-585 -586 -687 -686
122	2	22	0.00	0.00		-865 -866 -898 -897
122	2	22	0.00	0.00		-11 -12 -117 -116
122	2	22	0.00	0.00		-1015 -1016 -1034 216
122	2	22	0.00	0.00		-13 17 -119 -118
122	2	22	0.00	0.00		-988 -989 -1018 -1017
122	2	22	0.00	0.00		-864 -865 -897 -896
122	2	22	0.00	0.00		-862 -863 -895 -894
122	2	22	0.00	0.00		-1017 -1018 -1036 -1035
122	2	22	0.00	0.00		-301 -302 -395 -394
123	2	22	0.00	0.00		-533 -534 -630 -629
123	2	22	0.00	0.00		-535 -536 -632 -631
123	2	22	0.00	0.00		-823 131 -860 -859
123	2	22	0.00	0.00		-440 -441 -535 -534
123	2	22	0.00	0.00		-439 -440 -534 -533
123	2	22	0.00	0.00		-857 -858 -891 -890
123	2	22	0.00	0.00		-730 -731 -822 -821
123	2	22	0.00	0.00		-629 -630 -731 -730
123	2	22	0.00	0.00		-856 -857 -890 -889
123	2	22	0.00	0.00		-822 -823 -859 -858
123	2	22	0.00	0.00		-921 -922 -950 -949
123	2	22	0.00	0.00		-160 -161 -254 -253
123	2	22	0.00	0.00		-731 -732 -823 -822
123	2	22	0.00	0.00		-68 -69 -160 -159
123	2	22	0.00	0.00		-946 -947 -976 -975
123	2	22	0.00	0.00		-253 -254 -347 -346
123	2	22	0.00	0.00		-858 -859 -892 -891
123	2	22	0.00	0.00		-920 -921 -949 -948
123	2	22	0.00	0.00		-532 -533 -629 -628
123	2	22	0.00	0.00		-919 -920 -948 -947
123	2	22	0.00	0.00		-820 -821 -857 -856
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123	2	22	0.00	0.00		-252 -253 -346 -345
123	2	22	0.00	0.00		-729 -730 -821 -820
123	2	22	0.00	0.00		-69 -70 -161 -160
123	2	22	0.00	0.00		-948 -949 -978 -977
123	2	22	0.00	0.00		-254 -255 -348 -347
123	2	22	0.00	0.00		-628 -629 -730 -729
124	2	22	0.00	0.00		-19 -20 -127 -126
124	2	22	0.00	0.00		-126 -127 -220 -219
124	2	22	0.00	0.00		-848 -849 -882 -881
124	2	22	0.00	0.00		-910 -911 -940 -939
124	2	22	0.00	0.00		-403 -404 -497 -496
124	2	22	0.00	0.00		-880 -881 -910 -909
124	2	22	0.00	0.00		-219 -220 -313 -312
124	2	22	0.00	0.00		-846 -847 -880 -879
124	2	22	0.00	0.00		-967 -968 -995 -994
124	2	22	0.00	0.00		-124 -125 -218 -217
124	2	22	0.00	0.00		-127 -128 -221 -220
124	2	22	0.00	0.00		-594 -595 -696 -695
124	2	22	0.00	0.00		-882 -883 -912 -911
124	2	22	0.00	0.00		-310 -311 -404 -403
124	2	22	0.00	0.00		-311 -312 -405 -404
124	2	22	0.00	0.00		-313 -314 -407 -406
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124	2	22	0.00	0.00		-879 -880 -909 -908
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124	2	22	0.00	0.00		-909 -910 -939 -938
124	2	22	0.00	0.00		-597 -598 -699 -698
124	2	22	0.00	0.00		-596 -597 -698 -697
124	2	22	0.00	0.00		-966 -967 -994 -993
124	2	22	0.00	0.00		-968 -969 -996 -995
124	2	22	0.00	0.00		-695 -696 -769 -768
124	2	22	0.00	0.00		-17 -18 -125 -124
124	2	22	0.00	0.00		-497 -498 -596 -595
124	2	22	0.00	0.00		-1022 -1023 -1041 -1040
124	2	22	0.00	0.00		-995 -996 -1025 -1024
124	2	22	0.00	0.00		-595 -596 -697 -696
124	2	22	0.00	0.00		-498 -499 -597 -596
124	2	22	0.00	0.00		-993 -994 -1023 -1022
124	2	22	0.00	0.00		-499 -500 -598 -597
125	2	22	0.00	0.00		-213 -214 -307 -306
125	2	22	0.00	0.00		-120 -121 -214 -213
125	2	22	0.00	0.00		-493 -494 -592 -591
125	2	22	0.00	0.00		-215 -216 -309 -308
125	2	22	0.00	0.00		-592 -593 -694 -693
125	2	22	0.00	0.00		-15 -16 -123 -122
125	2	22	0.00	0.00		-591 -592 -693 -692
125	2	22	0.00	0.00		-590 -591 -692 -691
125	2	22	0.00	0.00		-691 -692 -765 118
125	2	22	0.00	0.00		-14 -15 -122 -121
125	2	22	0.00	0.00		-306 -307 -400 -399
125	2	22	0.00	0.00		-692 -693 -766 -765
126	4	11	0.00	0.00		-81 -82 -175 -174
126	4	11	0.00	0.00		-741 -742 -831 144
126	4	11	0.00	0.00		-545 -546 -650 -649
126	4	11	0.00	0.00		-266 -267 -360 -359
126	4	11	0.00	0.00		-79 -80 -173 -172
126	4	11	0.00	0.00		-651 -652 -745 -744
126	4	11	0.00	0.00		-80 -81 -174 -173
126	4	11	0.00	0.00		-358 -359 -452 -451
126	4	11	0.00	0.00		-172 -173 -266 -265
126	4	11	0.00	0.00		-174 -175 -268 -267
126	4	11	0.00	0.00		-743 -744 -833 -832
126	4	11	0.00	0.00		-451 -452 -546 -545
126	4	11	0.00	0.00		-173 -174 -267 -266
126	4	11	0.00	0.00		-265 -266 -359 -358
126	4	11	0.00	0.00		-171 -172 -265 -264
126	4	11	0.00	0.00		-452 -453 -547 -546
127	2	22	0.00	0.00		-510 -511 -607 -606
127	2	22	0.00	0.00		-33 -34 -138 -137
127	2	22	0.00	0.00		-417 -418 -512 -511
127	2	22	0.00	0.00		-322 -323 -416 -415
127	2	22	0.00	0.00		-511 -512 -608 -607
127	2	22	0.00	0.00		-325 -326 -419 -418
127	2	22	0.00	0.00		-139 -140 -233 -232
127	2	22	0.00	0.00		-231 -232 -325 -324
127	2	22	0.00	0.00		-607 -608 -710 -709
127	2	22	0.00	0.00		-512 -513 -609 -608
127	2	22	0.00	0.00		-509 -510 -606 -605
127	2	22	0.00	0.00		-324 -325 -418 -417
127	2	22	0.00	0.00		-136 -137 -230 -229
127	2	22	0.00	0.00		-605 -606 -708 -707
127	2	22	0.00	0.00		-137 -138 -231 -230
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128	4	22	0.00	0.00		-539 -538 -636 -637
128	4	22	0.00	0.00		-840 -873 -872 -838
128	4	22	0.00	0.00		-540 -539 -637 -638
128	4	22	0.00	0.00		-169 -168 -261 -262
128	4	22	0.00	0.00		-170 -169 -262 -263
128	4	22	0.00	0.00		-356 -355 -448 -449
128	4	22	0.00	0.00		-739 -738 -829 -830
128	4	22	0.00	0.00		-258 -257 -350 -351
128	4	22	0.00	0.00		-75 -74 -165 -166
128	4	22	0.00	0.00		-636 -635 -734 -735
128	4	22	0.00	0.00		-542 -541 -639 -640
128	4	22	0.00	0.00		-826 -825 -841 -840
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128	4	22	0.00	0.00		-77 -76 -167 -168
128	4	22	0.00	0.00		-828 -827 -838 -837
128	4	22	0.00	0.00		-259 -258 -351 -352
128	4	22	0.00	0.00		-837 -861 -839 -828
128	4	22	0.00	0.00		-447 -446 -540 -541
128	4	22	0.00	0.00		-827 -826 -840 -838
128	4	22	0.00	0.00		-449 -448 -542 -543
128	4	22	0.00	0.00		-736 -735 -826 -827
128	4	22	0.00	0.00		-445 -444 -538 -539
128	4	22	0.00	0.00		-353 -352 -445 -446
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124	2	22	0.00	0.00		-771 119 -850 -849
124	2	22	0.00	0.00		-698 -699 119 -771
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124	2	22	0.00	0.00		-965 -966 -993 -992
124	2	22	0.00	0.00		-940 -941 -969 -968
124	2	22	0.00	0.00		-908 -909 -938 -937
124	2	22	0.00	0.00		-496 -497 -595 -594
124	2	22	0.00	0.00		-1021 -1022 -1040 -1039
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124	2	22	0.00	0.00		-939 -940 -968 -967
125	2	22	0.00	0.00		18 -14 -121 -120
125	2	22	0.00	0.00		-308 -309 -402 -401
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126	4	11	0.00	0.00		44 -79 -172 -171
126	4	11	0.00	0.00		-648 -649 -742 -741
126	4	11	0.00	0.00		-744 -745 -834 -833
126	4	11	0.00	0.00		-267 -268 -361 -360
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126	4	11	0.00	0.00		-742 -743 -832 -831
126	4	11	0.00	0.00		-357 -358 -451 -450
126	4	11	0.00	0.00		-544 -545 -649 -648
126	4	11	0.00	0.00		-546 -547 -651 -650
126	4	11	0.00	0.00		-264 -265 -358 -357
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127	2	22	0.00	0.00		-34 -35 -139 -138
127	2	22	0.00	0.00		-232 -233 -326 -325
127	2	22	0.00	0.00		-416 -417 -511 -510
127	2	22	0.00	0.00		-138 -139 -232 -231
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127	2	22	0.00	0.00		-709 -710 -788 -787
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127	2	22	0.00	0.00		-415 -416 -510 -509
127	2	22	0.00	0.00		-707 -708 -786 121
127	2	22	0.00	0.00		21 -33 -137 -136
127	2	22	0.00	0.00		-608 -609 -711 -710
127	2	22	0.00	0.00		-323 -324 -417 -416
127	2	22	0.00	0.00		-418 -419 -513 -512
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128	4	22	0.00	0.00		137 -830 -835
128	4	22	0.00	0.00		-541 -540 -638 -639
128	4	22	0.00	0.00		-740 -739 -830 137
128	4	22	0.00	0.00		-641 -640 -739 -740
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128	4	22	0.00	0.00		-76 -75 -166 -167
128	4	22	0.00	0.00		-538 -537 -635 -636
128	4	22	0.00	0.00		-738 -737 -828 -829
128	4	22	0.00	0.00		-78 -77 -168 -169
128	4	22	0.00	0.00		-168 -167 -260 -261
128	4	22	0.00	0.00		-838 -872 -861 -837
128	4	22	0.00	0.00		-543 -542 -640 -641
128	4	22	0.00	0.00		-444 -443 -537 -538
128	4	22	0.00	0.00		-167 -166 -259 -260
128	4	22	0.00	0.00		-637 -636 -735 -736
128	4	22	0.00	0.00		-829 -828 -839 -836
128	4	22	0.00	0.00		-639 -638 -737 -738
128	4	22	0.00	0.00		-260 -259 -352 -353
128	4	22	0.00	0.00		-448 -447 -541 -542
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128	4	22	0.00	0.00		-351 -350 -443 -444
128	4	22	0.00	0.00		37 -78 -169 -170
128	4	22	0.00	0.00		-446 -445 -539 -540
128	4	22	0.00	0.00		-74 -73 -164 -165
128	4	22	0.00	0.00		-352 -351 -444 -445
128	4	22	0.00	0.00		-638 -637 -736 -737
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128	4	22	0.00	0.00		-830 -829 -836 -835
128	4	22	0.00	0.00		-262 -261 -354 -355
128	4	22	0.00	0.00		-166 -165 -258 -259
129	2	22	0.00	0.00		-181 -182 -275 -274
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129	2	22	0.00	0.00		-9 15 -90 -89
129	2	22	0.00	0.00		-559 -560 -661 -660
129	2	22	0.00	0.00		-275 -276 -369 -368
129	2	22	0.00	0.00		-658 -659 -759 -758
129	2	22	0.00	0.00		-7 -8 -88 -87
129	2	22	0.00	0.00		-88 -89 -182 -181
129	2	22	0.00	0.00		-368 -369 -462 -461
129	2	22	0.00	0.00		-273 -274 -367 -366
130	3	22	0.00	0.00		-566 -564 -665 -667
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130	3	22	0.00	0.00		-669 -667 -793 -797
130	3	22	0.00	0.00		-278 -277 -370 -371
130	3	22	0.00	0.00		-470 -468 -566 -568
130	3	22	0.00	0.00		23 -30 -92 -94
130	3	22	0.00	0.00		-94 -92 -185 -187
130	3	22	0.00	0.00		-564 -562 -663 -665
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130	3	22	0.00	0.00		-92 -91 -184 -185
130	3	22	0.00	0.00		-30 -24 -91 -92
130	3	22	0.00	0.00		-280 -278 -371 -373
131	3	22	0.00	0.00		-412 -414 -508 -505
131	3	22	0.00	0.00		-713 -746 -795 -791
131	3	22	0.00	0.00		-321 -328 -421 -414
131	3	22	0.00	0.00		-330 -332 -425 -423
131	3	22	0.00	0.00		-414 -421 -515 -508
131	3	22	0.00	0.00		-421 -423 -517 -515
131	3	22	0.00	0.00		-603 -552 -706 -704
131	3	22	0.00	0.00		-42 -46 -146 -144
131	3	22	0.00	0.00		-29 -32 -135 -133
131	3	22	0.00	0.00		-38 -42 -144 -142
131	3	22	0.00	0.00		-612 -614 -716 -746
131	3	22	0.00	0.00		-142 -144 -237 -235
131	3	22	0.00	0.00		-226 -228 -321 -319
131	3	22	0.00	0.00		-517 -519 -614 -612
131	3	22	0.00	0.00		-505 -508 -552 -603
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132	3	22	0.00	0.00		-317 -318 -411 -410
132	3	22	0.00	0.00		-599 -600 -701 -700
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132	3	22	0.00	0.00		-132 -133 -226 -225
132	3	22	0.00	0.00		-225 -226 -319 -318
132	3	22	0.00	0.00		-504 -505 -603 -602
132	3	22	0.00	0.00		-318 -319 -412 -411
132	3	22	0.00	0.00		-600 -601 -702 -701
132	3	22	0.00	0.00		-28 -29 -133 -132
132	3	22	0.00	0.00		-501 -502 -600 -599
132	3	22	0.00	0.00		-503 -504 -602 -601
132	3	22	0.00	0.00		-703 -704 -782 -781
132	3	22	0.00	0.00		-26 -27 -131 -130
132	3	22	0.00	0.00		-502 -503 -601 -600
133	3	22	0.00	0.00		-424 -422 -516 -518
133	3	22	0.00	0.00		-518 -516 -611 -613
133	3	22	0.00	0.00		-331 -329 -422 -424
133	3	22	0.00	0.00		-320 -315 -408 -413
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133	3	22	0.00	0.00		-134 -129 -222 -227
133	3	22	0.00	0.00		-514 -507 -604 -610
133	3	22	0.00	0.00		-507 -501 -599 -604
133	3	22	0.00	0.00		-705 -700 -778 -784
133	3	22	0.00	0.00		-31 -25 -129 -134
133	3	22	0.00	0.00		-143 -141 -234 -236
133	3	22	0.00	0.00		-714 -712 -790 -794
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134	2	22	0.00	0.00		-530 -531 -627 -626
134	2	22	0.00	0.00		-725 -726 -817 130
134	2	22	0.00	0.00		30 -65 -156 -155
134	2	22	0.00	0.00		-157 -158 -251 -250
134	2	22	0.00	0.00		-727 -728 -819 -818
128	4	22	0.00	0.00		-263 -262 -355 -356
128	4	22	0.00	0.00		-165 -164 -257 -258
129	2	22	0.00	0.00		-87 -88 -181 -180
129	2	22	0.00	0.00		-461 -462 -560 -559
129	2	22	0.00	0.00		-180 -181 -274 -273
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129	2	22	0.00	0.00		-558 -559 -660 -659
129	2	22	0.00	0.00		-366 -367 -460 -459
129	2	22	0.00	0.00		-89 -90 -183 -182
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129	2	22	0.00	0.00		-274 -275 -368 -367
129	2	22	0.00	0.00		-8 -9 -89 -88
129	2	22	0.00	0.00		-557 -558 -659 -658
130	3	22	0.00	0.00		-568 -566 -667 -669
130	3	22	0.00	0.00		-96 -94 -187 -189
130	3	22	0.00	0.00		-284 -282 -375 -377
130	3	22	0.00	0.00		-562 -561 -1095 -663
130	3	22	0.00	0.00		-40 23 -94 -96
130	3	22	0.00	0.00		-667 -665 123 -793
130	3	22	0.00	0.00		-282 -280 -373 -375
130	3	22	0.00	0.00		-468 -466 -564 -566
130	3	22	0.00	0.00		-44 -40 -96 -98
130	3	22	0.00	0.00		-191 -189 -282 -284
130	3	22	0.00	0.00		-663 -1095 -777 -783
130	3	22	0.00	0.00		-464 -463 -561 -562
130	3	22	0.00	0.00		-371 -370 -463 -464
130	3	22	0.00	0.00		-185 -184 -277 -278
130	3	22	0.00	0.00		-375 -373 -466 -468
130	3	22	0.00	0.00		-373 -371 -464 -466
131	3	22	0.00	0.00		-228 -235 -328 -321
131	3	22	0.00	0.00		-237 -239 -332 -330
131	3	22	0.00	0.00		-235 -237 -330 -328
131	3	22	0.00	0.00		-328 -330 -423 -421
131	3	22	0.00	0.00		-653 -612 -746 -713
131	3	22	0.00	0.00		-135 -142 -235 -228
131	3	22	0.00	0.00		-423 -425 -519 -517
131	3	22	0.00	0.00		-508 -515 -653 -552
131	3	22	0.00	0.00		-319 -321 -414 -412
131	3	22	0.00	0.00		-32 -38 -142 -135
131	3	22	0.00	0.00		-746 -716 -799 -795
131	3	22	0.00	0.00		-133 -135 -228 -226
131	3	22	0.00	0.00		-144 -146 -239 -237
131	3	22	0.00	0.00		-706 -713 -791 -785
131	3	22	0.00	0.00		-515 -517 -612 -653
131	3	22	0.00	0.00		-704 -706 -785 -782
132	3	22	0.00	0.00		-701 -702 -780 -779
132	3	22	0.00	0.00		-129 -130 -223 -222
132	3	22	0.00	0.00		-700 -701 -779 -778
132	3	22	0.00	0.00		-408 -409 -502 -501
132	3	22	0.00	0.00		-410 -411 -504 -503
132	3	22	0.00	0.00		-409 -410 -503 -502
132	3	22	0.00	0.00		-316 -317 -410 -409
132	3	22	0.00	0.00		-224 -225 -318 -317
132	3	22	0.00	0.00		-131 -132 -225 -224
132	3	22	0.00	0.00		-702 -703 -781 -780
132	3	22	0.00	0.00		-27 -28 -132 -131
132	3	22	0.00	0.00		-223 -224 -317 -316
132	3	22	0.00	0.00		-222 -223 -316 -315
132	3	22	0.00	0.00		-25 -26 -130 -129
132	3	22	0.00	0.00		-601 -602 -703 -702
132	3	22	0.00	0.00		-602 -603 -704 -703
133	3	22	0.00	0.00		-234 -227 -320 -327
133	3	22	0.00	0.00		-420 -413 -507 -514
133	3	22	0.00	0.00		-516 -514 -610 -611
133	3	22	0.00	0.00		-329 -327 -420 -422
133	3	22	0.00	0.00		-610 -604 -705 -712
133	3	22	0.00	0.00		-422 -420 -514 -516
133	3	22	0.00	0.00		-413 -408 -501 -507
133	3	22	0.00	0.00		-236 -234 -327 -329
133	3	22	0.00	0.00		-37 -31 -134 -141
133	3	22	0.00	0.00		-327 -320 -413 -420
133	3	22	0.00	0.00		-604 -599 -700 -705
133	3	22	0.00	0.00		-41 -37 -141 -143
133	3	22	0.00	0.00		-145 -143 -236 -238
133	3	22	0.00	0.00		-141 -134 -227 -234
133	3	22	0.00	0.00		-613 -611 -714 -715
133	3	22	0.00	0.00		-712 -705 -784 -790
134	2	22	0.00	0.00		-626 -627 -728 -727
134	2	22	0.00	0.00		-248 -249 -342 -341
134	2	22	0.00	0.00		-65 -66 -157 -156
134	2	22	0.00	0.00		-156 -157 -250 -249
134	2	22	0.00	0.00		-529 -530 -626 -625
134	2	22	0.00	0.00		-625 -626 -727 -726

134	2	22	0.00	0.00		-726 -727 -818 -817
134	2	22	0.00	0.00		-250 -251 -344 -343
134	2	22	0.00	0.00		-435 -436 -530 -529
134	2	22	0.00	0.00		-155 -156 -249 -248
134	2	22	0.00	0.00		-436 -437 -531 -530
134	2	22	0.00	0.00		-66 -67 -158 -157
134	2	22	0.00	0.00		-342 -343 -436 -435
135	2	22	0.00	0.00		-722 -723 -816 -815
135	2	22	0.00	0.00		-870 -871 -903 -902
135	2	22	0.00	0.00		-816 129 -871 -870
135	2	22	0.00	0.00		-723 -724 129 -816
135	2	22	0.00	0.00		-246 -247 -340 -339
135	2	22	0.00	0.00		-339 -340 -433 -432
135	2	22	0.00	0.00		-431 -432 -526 -525
135	2	22	0.00	0.00		-524 -525 -621 -620
135	2	22	0.00	0.00		-900 -901 -930 -929
135	2	22	0.00	0.00		-62 -63 -152 -151
135	2	22	0.00	0.00		-902 -903 -932 -931
135	2	22	0.00	0.00		-620 -621 -722 -721
135	2	22	0.00	0.00		-957 -958 -1003 -1002
135	2	22	0.00	0.00		-869 -870 -902 -901
135	2	22	0.00	0.00		-814 -815 -869 -868
135	2	22	0.00	0.00		-152 -153 -246 -245
135	2	22	0.00	0.00		-244 -245 -338 -337
135	2	22	0.00	0.00		-930 -931 -959 -958
135	2	22	0.00	0.00		-64 29 -154 -153
136	2	22	0.00	0.00		-241 -242 -335 -334
136	2	22	0.00	0.00		-148 -149 -242 -241
136	2	22	0.00	0.00		-240 -241 -334 -333
136	2	22	0.00	0.00		-428 -429 -523 -522
136	2	22	0.00	0.00		-521 -522 -618 -617
136	2	22	0.00	0.00		-617 -618 -719 -718
136	2	22	0.00	0.00		-616 -617 -718 -717
136	2	22	0.00	0.00		-334 -335 -428 -427
136	2	22	0.00	0.00		-426 -427 -521 -520
136	2	22	0.00	0.00		-60 -61 -149 -148
136	2	22	0.00	0.00		-147 -148 -241 -240
136	2	22	0.00	0.00		-522 -523 -619 -618
137	4	22	0.00	0.00		-73 -72 -113 -164
137	4	22	0.00	0.00		-257 -206 -299 -350
137	4	22	0.00	0.00		-350 -299 -392 -443
137	4	22	0.00	0.00		-443 -392 -485 -537
137	4	22	0.00	0.00		-537 -485 -583 -635
137	4	22	0.00	0.00		-734 -684 -824 -825
137	4	22	0.00	0.00		-164 -113 -206 -257
137	4	22	0.00	0.00		-684 -683 135 -824
138	2	22	0.00	0.00		26 -49 -101 -102
138	2	22	0.00	0.00		-378 -376 -469 -471
138	2	22	0.00	0.00		-472 -471 -569 -570
138	2	22	0.00	0.00		-469 -467 -565 -567
138	2	22	0.00	0.00		-474 -473 -571 -572
138	2	22	0.00	0.00		-570 -569 -670 -671
138	2	22	0.00	0.00		-567 -565 -666 -668
138	2	22	0.00	0.00		-673 -672 -802 126
138	2	22	0.00	0.00		-671 -670 -800 -801
138	2	22	0.00	0.00		-668 -666 -792 -796
138	2	22	0.00	0.00		-572 -571 -672 -673
138	2	22	0.00	0.00		-380 -379 -472 -473
138	2	22	0.00	0.00		-49 -48 -100 -101
138	2	22	0.00	0.00		-47 -43 -97 -99
138	2	22	0.00	0.00		-39 22 -93 -95
138	2	22	0.00	0.00		-101 -100 -193 -194
138	2	22	0.00	0.00		-99 -97 -190 -192
138	2	22	0.00	0.00		-95 -93 -186 -188
138	2	22	0.00	0.00		-194 -193 -286 -287
138	2	22	0.00	0.00		-192 -190 -283 -285
138	2	22	0.00	0.00		-188 -186 -279 -281
138	2	22	0.00	0.00		-287 -286 -379 -380
138	2	22	0.00	0.00		-285 -283 -376 -378
138	2	22	0.00	0.00		-281 -279 -372 -374
140	4	22	0.00	0.00		43 -1053 -1075 -1071
140	4	22	0.00	0.00		-1054 -1055 -1077 -1076
140	4	22	0.00	0.00		-1071 -1075 -1078 -1070
140	4	22	0.00	0.00		-1076 -1077 -1080 -1079
140	4	22	0.00	0.00		-1070 -1078 -1081 -1069
140	4	22	0.00	0.00		-1079 -1080 -1083 -1082
140	4	22	0.00	0.00		-1069 -1081 -1084 -1068
140	4	22	0.00	0.00		-1082 -1083 -1086 -1085
140	4	22	0.00	0.00		-1068 -1084 -1087 -1067
140	4	22	0.00	0.00		-1085 -1086 -1089 -1088
140	4	22	0.00	0.00		-1067 -1087 -1072 -647
140	4	22	0.00	0.00		-1088 -1089 -1074 -1073
140	4	22	0.00	0.00		-1074 -1061 -1062 -1090
140	4	22	0.00	0.00		-1073 -1074 -1090 -1091

134	2	22	0.00	0.00		-624 -625 -726 -725
134	2	22	0.00	0.00		-341 -342 -435 -434
134	2	22	0.00	0.00		-249 -250 -343 -342
134	2	22	0.00	0.00		-434 -435 -529 -528
134	2	22	0.00	0.00		-528 -529 -625 -624
134	2	22	0.00	0.00		-343 -344 -437 -436
135	2	22	0.00	0.00		-337 -338 -431 -430
135	2	22	0.00	0.00		-526 -527 -623 -622
135	2	22	0.00	0.00		-338 -339 -432 -431
135	2	22	0.00	0.00		-430 -431 -525 -524
135	2	22	0.00	0.00		-621 -622 -723 -722
135	2	22	0.00	0.00		-868 -869 -901 -900
135	2	22	0.00	0.00		-929 -930 -958 -957
135	2	22	0.00	0.00		-432 -433 -527 -526
135	2	22	0.00	0.00		-525 -526 -622 -621
135	2	22	0.00	0.00		-622 -623 -724 -723
135	2	22	0.00	0.00		-153 -154 -247 -246
135	2	22	0.00	0.00		-931 -932 -960 -959
135	2	22	0.00	0.00		-721 -722 -815 -814
135	2	22	0.00	0.00		-815 -816 -870 -869
135	2	22	0.00	0.00		-901 -902 -931 -930
135	2	22	0.00	0.00		-958 -959 -1004 -1003
135	2	22	0.00	0.00		-151 -152 -245 -244
135	2	22	0.00	0.00		-245 -246 -339 -338
135	2	22	0.00	0.00		-959 -960 -1005 -1004
135	2	22	0.00	0.00		-63 -64 -153 -152
136	2	22	0.00	0.00		-333 -334 -427 -426
136	2	22	0.00	0.00		-242 -243 -336 -335
136	2	22	0.00	0.00		-59 -60 -148 -147
136	2	22	0.00	0.00		-520 -521 -617 -616
136	2	22	0.00	0.00		-149 -150 -243 -242
136	2	22	0.00	0.00		-718 -719 -812 -811
136	2	22	0.00	0.00		-717 -718 -811 -810
136	2	22	0.00	0.00		-335 -336 -429 -428
136	2	22	0.00	0.00		-427 -428 -522 -521
136	2	22	0.00	0.00		-61 28 -150 -149
136	2	22	0.00	0.00		-719 -720 128 -812
136	2	22	0.00	0.00		-618 -619 -720 -719
137	4	22	0.00	0.00		-113 -112 -205 -206
137	4	22	0.00	0.00		-206 -205 -298 -299
137	4	22	0.00	0.00		-299 -298 -391 -392
137	4	22	0.00	0.00		-392 -391 -484 -485
137	4	22	0.00	0.00		-485 -484 -582 -583
137	4	22	0.00	0.00		-72 35 -112 -113
137	4	22	0.00	0.00		-583 -582 -683 -684
137	4	22	0.00	0.00		-635 -583 -684 -734
138	2	22	0.00	0.00		-374 -372 -465 -467
138	2	22	0.00	0.00		-376 -374 -467 -469
138	2	22	0.00	0.00		-471 -469 -567 -569
138	2	22	0.00	0.00		-467 -465 -563 -565
138	2	22	0.00	0.00		-473 -472 -570 -571
138	2	22	0.00	0.00		-569 -567 -668 -670
138	2	22	0.00	0.00		-565 -563 -664 -666
138	2	22	0.00	0.00		-672 -671 -801 -802
138	2	22	0.00	0.00		-670 -668 -796 -800
138	2	22	0.00	0.00		-666 -664 122 -792
138	2	22	0.00	0.00		-571 -570 -671 -672
138	2	22	0.00	0.00		-379 -378 -471 -472
138	2	22	0.00	0.00		-48 -47 -99 -100
138	2	22	0.00	0.00		-43 -39 -95 -97
138	2	22	0.00	0.00		-102 -101 -194 -195
138	2	22	0.00	0.00		-100 -99 -192 -193
138	2	22	0.00	0.00		-97 -95 -188 -190
138	2	22	0.00	0.00		-195 -194 -287 -288
138	2	22	0.00	0.00		-193 -192 -285 -286
138	2	22	0.00	0.00		-190 -188 -281 -283
138	2	22	0.00	0.00		-288 -287 -380 -381
138	2	22	0.00	0.00		-286 -285 -378 -379
138	2	22	0.00	0.00		-283 -281 -374 -376
138	2	22	0.00	0.00		-381 -380 -473 -474
140	4	22	0.00	0.00		-1053 -1054 -1076 -1075
140	4	22	0.00	0.00		-1055 -1051 -1056 -1077
140	4	22	0.00	0.00		-1075 -1076 -1079 -1078
140	4	22	0.00	0.00		-1077 -1056 -1057 -1080
140	4	22	0.00	0.00		-1078 -1079 -1082 -1081
140	4	22	0.00	0.00		-1080 -1057 -1058 -1083
140	4	22	0.00	0.00		-1081 -1082 -1085 -1084
140	4	22	0.00	0.00		-1083 -1058 -1059 -1086
140	4	22	0.00	0.00		-1084 -1085 -1088 -1087
140	4	22	0.00	0.00		-1086 -1059 -1060 -1089
140	4	22	0.00	0.00		-1087 -1088 -1073 -1072
140	4	22	0.00	0.00		-1089 -1060 -1061 -1074
140	4	22	0.00	0.00		-1090 -1062 -1052 -1063
140	4	22	0.00	0.00		-1091 -1090 -1063 -1064

140	4	22	0.00	0.00		-1072 -1073 -1091 -1092
140	4	22	0.00	0.00		-647 -1072 -1092 -1066

140	4	22	0.00	0.00		-1092 -1091 -1064 -1065
140	4	22	0.00	0.00		-1066 -1092 -1065 143

Elenco tipi solai

Simbologia

Comm. = Commento
Crit. = Numero del criterio di progetto
Hs = Altezza solaio
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
Sc = Spessore cappa
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	Hs <cm>	Sc <cm>	Crit.
1	SOLAIO SOTTOTETTO	UN	130.00	80.00	0.00	50.00	0.00	50.00	50.00	0.00	0.33	20.00	4.00	1
2	SOLAIO COPERTURA	UN	160.00	160.00	0.00	50.00	48.00	50.00	50.00	0.00	0.33	20.00	4.00	1
4	SOLAIO P1	UN	300.00	150.00	300.00	0.00	0.00	50.00	50.00	0.50	0.33	20.00	4.00	1
5	SOLAIO COPERTURA NUOVO	UN	215.00	100.00	0.00	50.00	48.00	50.00	50.00	0.00	0.33	20.00	4.00	1
6	SCALA	UN	500.00	100.00	400.00	0.00	0.00	50.00	50.00	0.00	0.33	20.00	4.00	1

Elenco solai

Simbologia

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

Sol.	Ts	Ord. <grad>	Nodi
100	1	0.00	121 -786 -787 -788 -789 122 -792 -796 -800 -801 -802 126 133 135 -824 -825 145 -834 -833 -832 -831 144 134 132 127
101	1	0.00	122 -1097 123 -793 -797 148 -805 -804 -803 147 136 135 133 126 -802 -801 -800 -796 -792
102	1	90.00	101 102 103 104 105 106 107 108 109 110 117 -764 -763 -762 -761 116 115 -760 -759 -758 -757 -756 -755 -754 -753 -752 114
103	4	90.00	148 -806 -807 -808 -809 -810 -811 -812 128 -813 146 -799 -798 -797
104	1	90.00	147 -803 -804 -805 148 -806 -807 -808 -809 -810 -811 -812 128 -813 -814 -815 -816 129 130 -817 -818 -819 -820 -821 -822 -823 131 -1052 -1063 -1064 -1065 143 142 141 140 139 138 137 136
105	2	0.00	121 -786 -787 -788 -789 122 46 -980 51 50
106	2	0.00	122 -1097 123 47 -945 -944 -943 -942 46
107	2	90.00	-1010 -1009 -1008 -1007 -1006 49 -1005 -1004 -1003 -1002 48 -1001 -1000 -999 -998 -997 -981 137 138 139 140 141 142 143
108	2	0.00	137 -835 -836 -839 -861 -872 -873 -874 51 -981
109	2	0.00	-874 51 50 144 -831 -832 -833 -834 145
110	2	90.00	-748 -747 137 138 139 140 141 142 143
111	4	0.00	130 -817 -818 -819 -820 -821 -822 -823 131 125 124 120 119 -771 -770 -769 -768 -767 -766 -773
112	4	0.00	129 130 -773 -766 -765 118 117 -764 -763 -762 -761 116 -772 -1096
113	4	90.00	146 -1096 129 -816 -815 -814 -813
114	6	0.00	-505 -552 -653 -746 -799 146 -506
115	4	90.00	115 116 -772 -1096 146
200	2	90.00	101 102 103 104 105 106 107 108 109 110 217 -1037 -1036 -1035 -1034 216 215 -1033 -1032 -1031 214
300	2	0.00	324 -1050 231 325
301	2	0.00	-1050 -1049 229
302	2	0.00	-1049 -1048 229
303	2	0.00	-1048 -1047 232
304	2	90.00	-1050 329 231
305	2	90.00	329 -1050 229
306	2	90.00	229 -1048 328
307	2	90.00	328 -1048 232
308	2	0.00	-1048 214 323 -1047
309	2	90.00	-1048 216 326
310	2	90.00	-1048 326 214
311	2	90.00	-1050 327 216
312	2	90.00	-1050 219 327
313	2	0.00	324 320 219 -1050
314	2	0.00	-1050 216 -1049
315	2	0.00	-1049 216 -1048
500	2	0.00	46 -942 -981 -980
501	2	0.00	51 -981 -980
503	6	90.00	-459 -460 -461 -462 -506 -505
505	6	90.00	-315 -410 -505 -459 -272
506	6	90.00	-277 -315 -272 -271 -270 -269
507	4	90.00	-45 -41 -40 -44
508	6	0.00	-41 -141 -227 -315 -277 -185 -94 -40
1000	5	90.00	-1117 -1114 -1111 -1110
1001	5	90.00	-1117 -1114 -1113 -1116

1002	5	90.00	-1116 -1113 -1112 -1115
1003	5	90.00	-1115 -1112 -750 -749
1004	5	90.00	-1114 -1120 -1109 -1111
1005	5	90.00	-1114 -1120 -1119 -1113
1006	5	90.00	-1113 -1119 -1118 -1112
1007	5	90.00	-1112 -1118 -1099 -750
1008	5	90.00	-1110 -1111 -1125 -1124
1009	5	90.00	-1111 -1109 -1126 -1125

Carichi

Elenco tipi CCE

Simbologia

γ max = Coeff. γ_{max}
γ min. = Coeff. $\gamma_{min.}$
ψ_0 = Coeff. ψ_0
$\psi_{0,s}$ = Coeff. ψ_0 sismico (D.M. 96)
ψ_1 = Coeff. ψ_1
ψ_2 = Coeff. ψ_2
Comm. = Commento
Durata = Durata del carico
P = Permanente
L = Lunga
M = Media
Tipo = Tipologia
G = Permanente
Qv = Variabile vento
Q = Variabile
Tipo CCE = Tipo condizione di carico elementare

Tipo CCE	Comm.	Tipo	Durata	γ min.	γ max	ψ_0	ψ_1	ψ_2	$\psi_{0,s}$
1	D.M. 18 Permanenti strutturali	G	P	1.00	1.30				
2	D.M. 18 Permanenti non strutturali	G	L	0.80	1.50				
19	D.M. 18 Variabili Categoria H - Coperture accessibili per sola manutenzione	Q	M	0.00	1.50	0.00	0.00	0.00	1.00
12	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
5	D.M. 18 Variabili Categoria C - Ambienti suscettibili di affollamento	Q	M	0.00	1.50	0.70	0.70	0.60	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
A = ambigua
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	PS	1	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
2	PNS	2	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
3	MANUTENZIONE	19	S	A	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
4	NEVE	12	S	A	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
5	FOLLA	5	S	A	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00

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. 5637, prodotto da Tecnisoft s.a.s. - Prato
La struttura è stata calcolata utilizzando come solutore agli elementi finiti:
Xfinest ver. 9.3.5, licenza n. -1523908944, prodotto da Ce.A.S. S.r.l. - Milano

Tipo di normativa: stati limite D.M. 18
Tipo di calcolo: sismica dinamica
Vincoli esterni: Considera incastrate fondazioni per analisi sismiche
Schematizzazione piani rigidi:
  Imp.1: impalcato non rigido
  Imp.2: impalcato non rigido
  Selezione solai controventati: 103 113 112 111 115 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009
Modalità di recupero masse secondarie: mantenere sul nodo masse e forze relative

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
- Modalità di combinazione momento torcente: disaccoppiare le azioni

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
- Sito di costruzione: Via dei Ciclamini, 1, 05100 Terni TR, Italia LON. 12.65230 LAT. 42.54700
  Contenuto tra ID reticolo: 25629 25628 25407 25406

Simbologia
Ag = Accelerazione orizzontale massima al sito
C_C = Coefficiente funzione della categoria del suolo
Fo = Valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale
S_S = Coefficiente di amplificazione stratigrafica
T_R = Periodo di ritorno <anni>
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
  SLV = Stato limite di salvaguardia della vita
  SND = Stato limite di salvaguardia della vita (non dissipativo)
Tc* = Periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale <sec>

TCC	T_R	Ag <g>	Fo	Tc*	S_S	C_C
SLV	712	0.1882	2.47	0.33	1.42	1.52

- Edificio esistente: Sì
- Spettri: Automatici da normativa
- Tipo di opera: Opera ordinaria
- Vita nominale V_N: 50.00
- Classe d'uso: Classe III
- SL Esercizio: SLOPvr No, SLDPvr No
- SL Ultimi: SLVPvr 10.00, SLCPvr No
- Struttura dissipativa: Sì
- Classe di duttilità: Classe B
- Quota di riferimento: 0.00 <m>
- Quota max della struttura: 7.72 <m>
- Altezza della struttura: 7.72 <m>
- Numero piani edificio: 2
- Coefficiente θ: 0.00
- Edificio regolare in altezza: No
- Edificio regolare in pianta: No
- Forze orizzontali convenzionali per stati limite non sismici: 1.00%
- Genera stati limite per verifiche di resistenza al fuoco: No

Dati di piano
Simbologia
Ea = Eccentricità complessiva
Ex = Eccentricità in dir. X
Ey = Eccentricità in dir. Y
Imp. = Numero dell'impalcato
Lx = Dimensione del piano in dir. X
Ly = Dimensione del piano in dir. Y

Imp.	Lx <m>	Ly <m>	Ex <m>	Ey <m>	Ea <m>
1	27.75	19.60	1.39	0.98	1.70
2	18.75	6.67	0.94	0.33	1.00

- Eccentricità di calcolo: 1.70 <m>
- Considera eccentricità aggiuntiva sugli impalcati non rigidi: No

Dati di calcolo
- Categoria del suolo di fondazione: C
- Tipologia strutturale: c.a. o prefabbricata a telaio a più piani e più campate

Periodo T_1	0.08979
Coeff. λ SLV	1.00
Rapporto di sovraresistenza (α_u/α_1)	1.15
Valore di riferimento del fattore di comportamento (q_0)	3.45
Fattore riduttivo (K_w)	1.00
Fattore riduttivo regolarità in altezza (KR)	0.80
Fattore di comportamento dissipativo (q)	1.50
Fattore di comportamento non dissipativo (qND)	1.50
Fattore di comportamento per SLD (qD)	1.50

- Categoria topografica: T1 - Superficie pianeggiante, pendii e rilievi isolati con inclinazione media i<=15°
- Coeff. amplificazione topografica S_T: 1.00
- Fattore di comportamento per sisma verticale (qv): 1.50
- Modalità di calcolo modi di vibrare: Ritz-vectors
- Numero vettori: 2
- CCE per vettori di Ritz e numero di modi da calcolare

  6) Forze dir. X
  Numero modi: 5
  7) Forze dir. Y
  Numero modi: 5
- Modi da considerare: Tutti i modi calcolati
- Smorzamento spettro: 5.00%

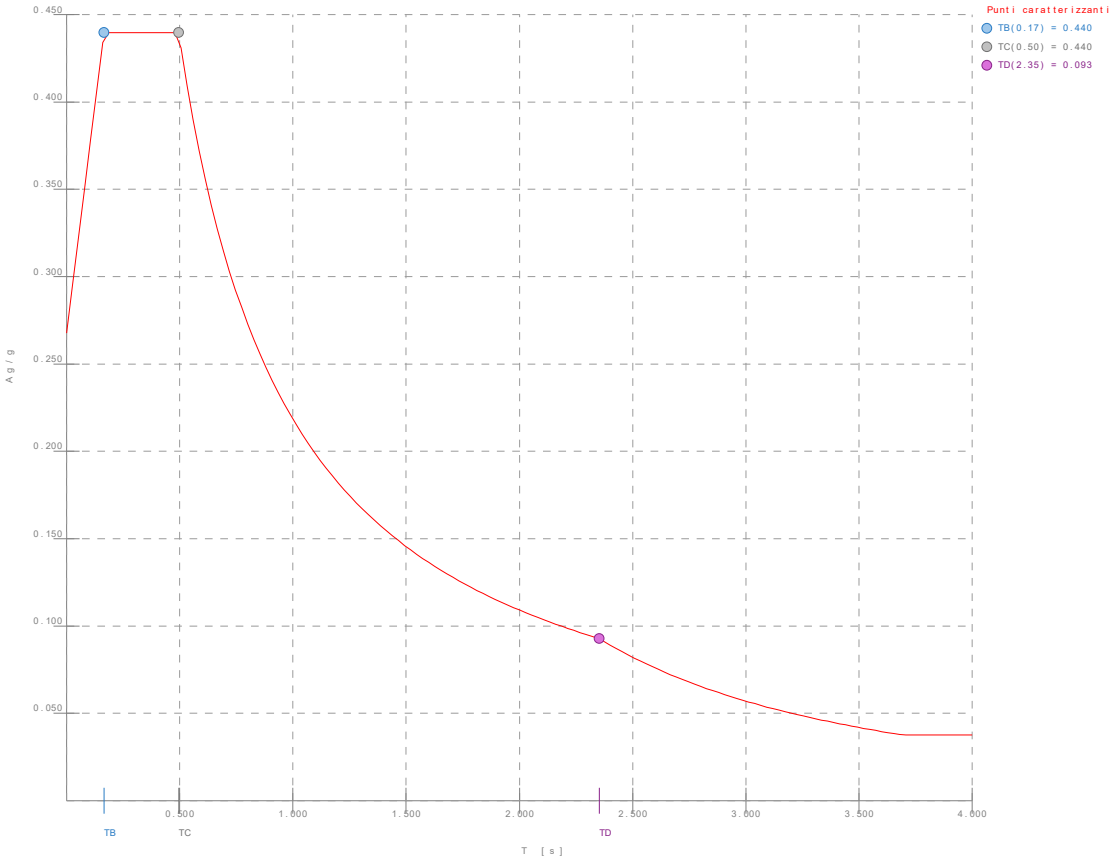

Figura numero 1: Spettro SLV

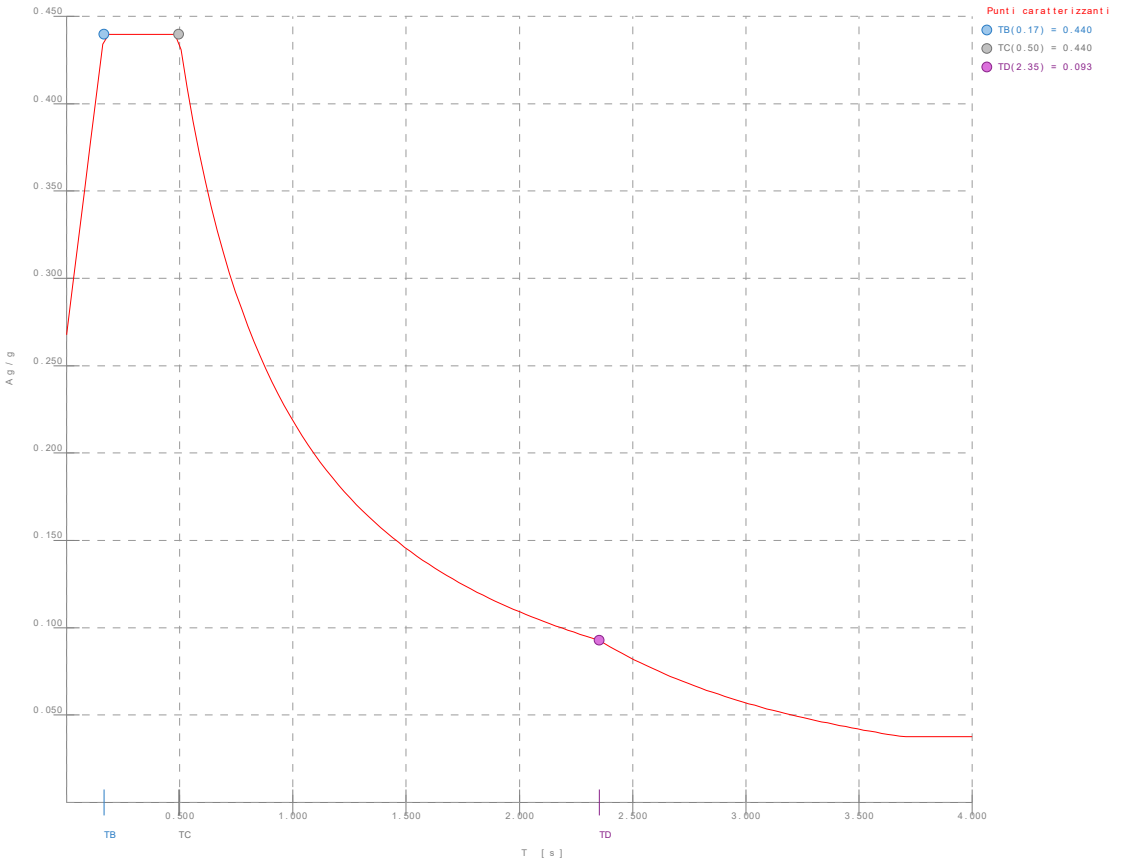

Figura numero 2: Spettro SND

- Angolo di ingresso del sisma: 0.00 <grad>

Ambienti di carico
Simbologia
N = Numero
Comm. = Commento
1 = PS
2 = PNS
3 = MANUTENZIONE
4 = NEVE
5 = FOLLA
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

N	Comm.	1	2	3	4	5	F	S	SLU	SLR	SLF	SLQ
1	Calcolo sismico	S	S	S	S	S	N	S	S	N	N	N
2	Calcolo statico	S	S	S	S	S	N	N	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
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)

CC	Comm.	TCC	1	2	3	4	5	F	S
1	Amb. 1 (Sisma)	SLU S	1	1	ψ_2	ψ_2	ψ_2	-----	1
2	Amb. 2 (SLU)	SLU	γ max	γ max	ψ_0*γ max	ψ_0*γ max	γ max	-----	-----
3	Amb. 2 (SLU)	SLU	γ max	γ max	ψ_0*γ max	γ max	ψ_0*γ max	-----	-----
4	Amb. 2 (SLU)	SLU	γ max	γ max	γ max	ψ_0*γ max	ψ_0*γ max	-----	-----
5	Amb. 2 (SLE R)	SLE R	1	1	ψ_0	ψ_0	1	-----	-----
6	Amb. 2 (SLE R)	SLE R	1	1	ψ_0	1	ψ_0	-----	-----
7	Amb. 2 (SLE R)	SLE R	1	1	1	ψ_0	ψ_0	-----	-----
8	Amb. 2 (SLE F)	SLE F	1	1	ψ_2	ψ_2	ψ_1	-----	-----

9	Amb. 2 (SLE F)	SLE F	1	1	ψ_2	ψ_1	ψ_2	-----	-----
10	Amb. 2 (SLE F)	SLE F	1	1	ψ_1	ψ_2	ψ_2	-----	-----
11	Amb. 2 (SLE Q)	SLE Q	1	1	ψ_2	ψ_2	ψ_2	-----	-----

Genera le combinazioni con un solo carico di tipo variabile come di base: Sì
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 = Sì
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
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)

CC	Comm.	TCC	An.	Bk	1	2	3	4	5	F X	F Y	±S X	±S Y
1	Amb. 1 (SLU S) S +X+0.3Y	SLV+SND	L	N	1.00	1.00	0.00	0.00	0.60	0.00	0.00	1.00	0.30
2	Amb. 1 (SLU S) S +X-0.3Y	SLV+SND	L	N	1.00	1.00	0.00	0.00	0.60	0.00	0.00	1.00	-0.30
3	Amb. 1 (SLU S) S +0.3X+Y	SLV+SND	L	N	1.00	1.00	0.00	0.00	0.60	0.00	0.00	0.30	1.00
4	Amb. 1 (SLU S) S -0.3X+Y	SLV+SND	L	N	1.00	1.00	0.00	0.00	0.60	0.00	0.00	-0.30	1.00
5	Amb. 2 (SLU)	SLU	L	N	1.30	1.30	0.00	0.75	1.50	0.00	0.00	0.00	0.00
6	Amb. 2 (SLU)	SLU	L	N	1.30	1.30	0.00	1.50	1.05	0.00	0.00	0.00	0.00
7	Amb. 2 (SLU)	SLU	L	N	1.30	1.30	1.50	0.75	1.05	0.00	0.00	0.00	0.00
8	Amb. 2 (SLE R)	SLE R	L	N	1.00	1.00	0.00	0.50	1.00	0.00	0.00	0.00	0.00
9	Amb. 2 (SLE R)	SLE R	L	N	1.00	1.00	0.00	1.00	0.70	0.00	0.00	0.00	0.00
10	Amb. 2 (SLE R)	SLE R	L	N	1.00	1.00	1.00	0.50	0.70	0.00	0.00	0.00	0.00
11	Amb. 2 (SLE F)	SLE F	L	N	1.00	1.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
12	Amb. 2 (SLE F)	SLE F	L	N	1.00	1.00	0.00	0.20	0.60	0.00	0.00	0.00	0.00
13	Amb. 2 (SLE F)	SLE F	L	N	1.00	1.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
14	Amb. 2 (SLE Q)	SLE Q	L	N	1.00	1.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00

Elenco modi di vibrare, masse partecipanti e coefficienti di partecipazione
Simbologia
Φx =Coefficiente di partecipazione in dir. X
Φy =Coefficiente di partecipazione in dir. Y
Φz =Coefficiente di partecipazione in dir. Z
%Jpz =Percentuale momento d'inerzia polare partecipante intorno all'asse Z
%Mx =Percentuale massa partecipante in dir. X
%My =Percentuale massa partecipante in dir. Y
%Mz =Percentuale massa partecipante in dir. Z
C =* indica che il modo è stato considerato
Diff. =Minima differenza percentuale dagli altri periodi
Modo =Numero del modo di vibrare
T =Periodo

Modo	C	T	Diff.	Φx	Φy	Φz	%Mx	%My	%Mz	%Jpz
1	*	0.25	6.41	54.30	7.05	0.00	4.88	0.08	0.00	0.00
2	*	0.23	6.41	-7.65	44.56	0.00	0.10	3.29	0.00	0.00
3	*	0.20	4.24	-58.14	0.06	0.00	5.60	0.00	0.00	0.00
4	*	0.19	4.24	-32.18	-5.83	0.00	1.71	0.06	0.00	0.00
5	*	0.15	27.09	4.36	116.86	0.00	0.03	22.61	0.00	0.00
6	*	0.12	28.55	1.30	155.02	0.00	0.00	39.79	0.00	0.00
7	*	0.09	9.97	-177.12	7.83	0.00	51.95	0.10	0.00	0.00
8	*	0.08	9.97	8.44	-97.91	0.00	0.12	15.87	0.00	0.00
9	*	0.06	37.57	-94.32	-37.90	0.00	14.73	2.38	0.00	0.00
10	*	0.04	44.30	-65.88	64.93	0.00	7.19	6.98	0.00	0.00
Tot.cons.							86.31	91.17	0.00	0.00

Domanda in duttilità di curvatura

Direzione X μ_{EdX}=34.45
Direzione Y μ_{EdY}=26.83

Criteri di progetto utilizzati

Pilastri in c.a.

Generali	
Parametri di progetto	
Pilastro prefabbricato	No
Progettazione dell'armatura con sollecitazioni più gravose	Si
Disaccoppia sovraresistenza	No
Limita fattore di sovraresistenza al massimo valore di struttura	No
Tipo verifica di stabilità	
-Per N*Ω-M e per N-c*M (standard)	Si
-Per N*Ω-c*M (doppia)	No
-Per N*Ω (sforzo normale e momento nullo)	No
-Per c*M (momento e sforzo normale nullo)	No
Max angolo di piegatura ferri <grad>	20.00
Progettazione armatura di ripresa	Si
Minimizzazione armatura di ripresa	No
Minimizzazione area di ferro totale nella sezione	No
Non progettare riprese ma estendi solo i ferri	Si
Verifiche in relazione	Minimizzate
Ancoraggi	
Lunghezza ancoraggi	
-Lunghezza minima come multiplo del diametro	40.00
Ancoraggi tutti uguali	Si
Piegatura ancoraggi per discontinuità	Si
Piegatura ancoraggi ferri di ripresa	Si
Armatura a taglio	
Staffatura a spirale pilastri circolari	Si
Cambiare le staffe nei nodi appartenenti all'impalcato 0 se sul nodo incidono elementi	Si
Considera solo la zona critica alla base della pilastrata (strutture pendolari)	No
Progetta a taglio con traliccio ad inclinazione variabile	Si
-Classe A	
-In zona critica limita ctg θ a	1.00
-In zona non critica limita ctg θ a	2.50
-Classe B	
-In zona critica limita ctg θ a	2.50
-In zona non critica limita ctg θ a	2.50
Estendi nel nodo staffe sottostanti anche se non richiesto dalla normativa	No
Parametri di disegno	
Scala disegno sezioni pilastri	25.00
Scala disegno viste pilastri	50.00
Creazione tabelle pilastri	Si
-Tipo di tabella	Armature disposte dal basso verso l'alto
-Max lunghezza tavole <cm>	70.00
-Max altezza tavole <cm>	50.00
Creazione viste pilastri	
-Disegno ferri dentro pilastro in vista	Si
-Disegno staffe dentro pilastro in vista	Si
-Modalità di individuazione ferri	
-Modalità di indicazione ferri	Mediante una tabella
-Minimizzazione riferimenti	Si
-Modalità di individuazione ferri	Per posizione
-Modalità di indicazione ferri	Mediante una tabella
-Minimizzazione riferimenti	Si

Specifici	1	3
Materiali		
-Considera come elemento esistente	Si	No
-Calcestruzzo		
-Livello di conoscenza	LC1	LC2
-Fattore di confidenza	1.35	1.20
-Tipo di calcestruzzo	C20/25	C28/35
-Rck calcestruzzo	230.00	350.00
-Modulo elastico <daN/cmq>	296664.00	325881.00
-Resistenza caratteristica cilindrica (Fck)	190.90	290.50
-Resistenza caratteristica a trazione (Fctk)	15.00	19.84
-Resistenza media (Fcm) <daN/cmq>	270.90	370.50
-Resistenza media a trazione (Fctm) <daN/cmq>	21.43	28.35
-σ amm. calcestruzzo <daN/cmq>	80.00	110.00
-τc0 <daN/cmq>	5.10	6.70
-τc1 <daN/cmq>	16.30	19.70
-Riduci Fcd per tutte le verifiche secondo il D.M. 18	Si	Si
-γ_c per stati limite ultimi		

-Automatico	x	x
-Pari a		
-Acciaio		
-Livello di conoscenza	LC3	LC2
-Fattore di confidenza	1.00	1.20
-Tipo di acciaio	44	B450C
-Modulo elastico <daN/cmq>	2060000.00	2060000.00
-Tensione caratteristica di snervamento (Fyk) <daN/cmq>	4400.00	4500.00
-Tensione media di snervamento (Fym) <daN/cmq>	4400.00	4500.00
-Sigma amm. acciaio <daN/cmq>	2600.00	2600.00
-Sigma amm. reti e tralicci <daN/cmq>	2600.00	2600.00
-Allungamento per verifiche di duttilità (Agt) <%>	4.00	4.00
-γ_s per stati limite ultimi		
-Automatico	x	x
-Pari a		
-Coeff. di omogeneizzazione	15.00	15.00
Parametri per analisi pushover		
Numero fibre	200.00	200.00
Fattore di confinamento nucleo interno	1.00	1.00
Fattore di incrudimento acciaio <%>	0.10	0.10
Parametri per verifiche di duttilità		
Considera formulazione per pareti	No	No
Considera rotazione massima di esercizio per determinare SLO e SLD	No	No
Modalità di calcolo luce di taglio Lv		
-Lv=L/2	x	x
-Lv=M/V		
-Lv=Punto di nullo del momento flettente		
Capacità di rotazione alla corda al collasso		
-Formula C8.7.2.1 con fattore di riduzione pari a		
-Formula C8.7.2.5	x	x
Sforzo normale di verifica per analisi pushover		
-Gravitazionale		
-Dal calcolo	x	x
Parametri di calcolo		
Strategia di progetto	RETTANG	RETTANG
Copriferro reale al bordo staffa <cm>	2.50	2.50
Diametro staffa teorica <mm>	9.00	9.00
Continuità dei ferri nei nodi appartenenti all'impalcato 0	Si	Si
Coeff. β in direzione Z locale	1.00	1.00
Coeff. β in direzione Y locale	1.00	1.00
Armatura secondo Circ. 65 del 10/04/97	No	No
-Raffittimento staffe in testa e al piede del pilastro	No	No
-Passo <cm>		
Parametri di progetto secondo il D.M. 18		
Elemento dissipativo	Si	No
Trascura gerarchia	Si	No
Verifica a taglio ciclico elementi esistenti	No	No
Limita verifica a pressoflessione ad elemento non dissipativo	No	No
Limita verifica a taglio ad elemento non dissipativo	No	No
Elemento secondario	No	No
Incremento percentuale per piano debole	No	No
Non progettare e verificare i nodi fra trave e pilastro	No	Si
-Progetta e verifica secondo Circolare n.7 del 21/01/2019	Si	No
Verifiche a pressoflessione deviata	Si	Si
Per calcoli secondo il D.M. 18 usa espressione 4.1.19	No	No
Verifiche a taglio		
Verifiche a taglio per sezioni circolari		
-Usa formulazione sezioni generiche		
-Considera rettangolo inscritto con B/H pari a	1.00	1.00
Verifiche a taglio per sezioni generiche		
-Considera Vrdu minimo		
-Considera Vrdu calcolato in corrispondenza di bw minimo		
-Considera Vrdu in corrispondenza di bw medio	x	x
-Considera Vrdu in corrispondenza di bw massimo		
-Considera sempre Af Staffe non proiettata in direzione del taglio	Si	Si
Armatura a pressoflessione		
Elenco diametri ferri longitudinali 1 <mm>	16	20
Elenco diametri ferri longitudinali 2 <mm>	20	22
Elenco diametri ferri longitudinali 3 <mm>	22	24
Elenco diametri ferri longitudinali 4 <mm>		
Elenco diametri ferri longitudinali 5 <mm>		
Elenco diametri ferri longitudinali 6 <mm>		
Elenco diametri ferri longitudinali 7 <mm>		
Max distanza fra i ferri su un lato <cm>	25.00	25.00
Min. interferro ammissibile <cm>	7.00	7.00
Distanza fra i ferri di spigolo <cm>	3.00	3.00
Min. numero ferri per pilastri circolari	8.00	8.00
Reggistaffe aggiuntivi sezioni non rettangolari	Si	Si

Fattore di riduzione τ_{C0} per ancoraggio ferri	1.00	1.00
Armatura a taglio		
Elenco diametri staffe 1 <mm>	6	8
Elenco diametri staffe 2 <mm>	8	10
Elenco diametri staffe 3 <mm>		
Elenco diametri staffe 4 <mm>		
Elenco diametri staffe 5 <mm>		
Elenco diametri staffe 6 <mm>		
Elenco diametri staffe 7 <mm>		
Mantieni diametro costante nell'interpiano	Si	Si
Passi staffe	4.00	4.00
-Minimo <cm>	Si	Si
-Massimo <cm>	30.00	30.00
-Incremento <cm>	2.00	2.00
Tipo di minimizzazione staffatura		
-Minimizza il numero delle staffe		
-Minimizza il peso delle staffe	x	x
Max distanza fra ferri non collegati <cm>	20.00	20.00
Max numero ferri non collegati	2.00	2.00
Max distanza fra ferri nei nodi non collegati <cm>	7.00	7.00
Max numero ferri nei nodi non collegati	1.00	1.00
Collegamenti ferri		
Con spilli		
Con staffe rettangolari		
Con staffe poligonali	x	x
Ferri orizzontali pareti realizzati con staffe	No	No
Quote di alleggerimento armature pilastri prefabbricati		
Quota di alleggerimento n. 1 <m>	0.00	0.00
Quota di alleggerimento n. 2 <m>	0.00	0.00
Quota di alleggerimento n. 3 <m>	0.00	0.00
Quota di alleggerimento n. 4 <m>	0.00	0.00
Quota di alleggerimento n. 5 <m>	0.00	0.00
Quota di alleggerimento n. 6 <m>	0.00	0.00
Quota di alleggerimento n. 7 <m>	0.00	0.00
Dati per progettazione interattiva sezioni		
Distanza fra ferri su più strati <cm>	1.00	1.00
Integrare lo scorrimento lungo il tratto	Si	Si
-Lunghezza del tratto <m>	1.00	1.00
Dati per progettazione agli stati limite		
Condizioni ambientali		
-Ordinarie	x	x
-Aggressive		
-Molto aggressive		
Usa dominio N-M per flessioni rette	No	No
-Ricerca della sicurezza con sforzo normale costante		
-Ricerca della sicurezza con eccentricità costante		
Controllo rapporto X/D	No	No
Classificazione barre tese/compresse		
-Solo le barre con deformazione percentuale rispetto		
alla barra più tesa/compressa non inferiore a <%>	30.00	30.00
-In funzione della deformazione		
Dati per verifiche di resistenza al fuoco		
-Tempo di verifica (REI) <minuti>	120.00	120.00
Dimensione MESH <cm>	2.00	2.00
-Passo di calcolo <secondi>	10.00	10.00
-Temperatura ambiente <C°>	20.00	20.00
-Coeff. di convezione a temperatura ambiente <W/mq K>	9.00	9.00
Calcestruzzo		
-Tipo di aggregati	SILICEI	SILICEI
-Massa volumica iniziale <kg/mc>	2300.00	2300.00
-Umidità iniziale <%>	3.00	3.00
-Fattore di interpolazione conducibilità	0.50	0.50
Dati per verifiche FRP		
Rinforzo longitudinale		
Tipo di fibra/resina		
-Vetro/Epossidica		
-Arammidica/Epossidica		
-Carbonio/Epossidica	x	x
Resistenza caratteristica(f_{fk}) <daN/cmq>	49000.00	49000.00
Modulo elastico(E_c) <daN/cmq>	2500000.00	2500000.00
Deformazione caratteristica a rottura per trazione(ε_{fk}) <%>	2.00	2.00
Spessore equivalente(t_f) <mm>	0.17	0.17
Sistemi di rinforzo		
-Preformati		
-Impregnati in situ	x	x
Rinforzo trasversale		
Tipo di fibra/resina		
-Vetro/Epossidica		

-Arammidica/Epossidica		
-Carbonio/Epossidica	x	x
Resistenza caratteristica(f_{fk}) <daN/cmq>	49000.00	49000.00
Modulo elastico(E_c) <daN/cmq>	2500000.00	2500000.00
Deformazione caratteristica a rottura per trazione(ε_{fk}) <%>	2.00	2.00
Spessore equivalente(t_f) <mm>	0.17	0.17
Sistemi di rinforzo		
-Preformati		
-Impregnati in situ	x	x
Trascura resistenza a taglio dei rinforzi	No	No
Modalità di carico		
-Lungo termine	x	x
-Ciclico		
Coeff. parziale di sicurezza per SLU di distacco(γ_{fd})	1.50	1.50
Fattore di conversione ambientale(η_a)	0.95	0.95
Raggio di arrotondamento spigoli(r_c) <cm>	2.00	2.00
Coeff. condizione di carico(K_q)	1.25	1.25
Dati per verifiche incamiciature in acciaio non CAM		
Resistenza di progetto strisce di collegamento (Fyd) <daN/cmq>	2350.00	2350.00
Dati per verifiche incamiciature c.a.		
-Tipo di calcestruzzo	C25/30	C25/30
-Rck calcestruzzo <daN/cmq>	300.00	300.00
-Modulo elastico <daN/cmq>	314472.00	314472.00
-Resistenza caratteristica cilindrica (Fck) <daN/cmq>	249.00	249.00
-Tipo di acciaio	B450C	B450C
-Modulo elastico <daN/cmq>	2060000.00	2060000.00
-Tensione caratteristica di snervamento (Fyk) <daN/cmq>	4500.00	4500.00
-Considera resistenza a taglio della nuova sezione	Si	Si
-Considera anche contributo della sezione esistente	Si	Si

Travi in c.a.

Generali	
Parametri di progetto	
Passo di progettazione <m>	0.30
Tipo di sollecitazioni zone rigide	Costanti
Min. angolo per spinte a vuoto <grad>	10.00
Invertire i ferri anche in presenza di pilastro sottostante	Si
Max differenza larghezza travi continue <cm>	5.00
Armatura a taglio	
Progetta a taglio con traliccio ad inclinazione variabile	Si
-Classe A	
-In zona critica limita ctg θ a	1.00
-In zona non critica limita ctg θ a	2.50
-Classe B	
-In zona critica limita ctg θ a	2.50
-In zona non critica limita ctg θ a	2.50
Lunghezze e arrotondamenti	
Max lunghezza barre <m>	12.00
Arrotondamento lunghezza ferri <cm>	50.00
Lunghezza ferri nei muri d'estremità <m>	1.00
Min. interferro ammissibile <cm>	2.00
Elenco diametri minimizzazione interferri <mm>	14 16 18 20 24
Riduzione ancoraggi	
-Nella zona compressa per flessione	No
-Nei punti inferiori della travata	Si
Considerare nel calcolo degli ancoraggi i risvolti specificati nei criteri generali di disegno	No
Risvoltare i ferri per garantire l'ancoraggio agli estremi della trave	No
Reggistaffe	
Interruzione reggistaffe in campata	No
Modalità di sovrapposizione reggistaffe	Per garantire la copertura del momento negativo
Modalità di unificazione reggistaffe	Solo se la geometria della travata e la lunghezza totale delle barre lo consentono
Minimi di regolamento	
Min. percentuale di regolamento	
-Per le travi di fondazione	No
-Per le travi di elevazione	Si
Min. di armatura a taglio (T.A. o S.L. D.M.96)	
-Per le travi di fondazione	No
-Per le travi di elevazione	No
Tipo di armatura per taglio (T.A.)	Mista
Controllo passo e 12Fi	Si
Min. di regolamento a torsione nell'ala	No

Min. di regolamento nell'ala	No
Stampe	
Verifiche a flessione in relazione	Minimizzate
Verifiche a taglio in relazione	Max scorrimento per taglio e torsione
Parametri di disegno	
Scala disegno travi	50.00
Scala disegno sezioni	25.00
Campitura sezioni	Fitta
Disegno sezione travi in falso	Si
Disegna sezioni	Si
-Disegno ferri nelle sezioni	No
Campitura travi in falso	Fitta
Campitura muri	Rada
Tipo di quotatura luci nette trave	Con riferimento ai pilastri superiori
Lunghezza monconi di pilastro	Minimizzata
Linee di riferimento quote	Si
Quotatura zone di staffatura	No
Quotatura zone di staffatura	No
Indicazione numero bracci staffe	Solo se il numero è maggiore di due
Disegno ferri longitudinali	
Disegno ferri dentro la trave	Si
Disegno esploso ferri di parete	No
Distanza fra ferri esplosi <cm>	0.10
Disegno reggistaffe aggiuntivi per travi a T e L	Reggistaffe aggiuntivi tipo 3
Disegno staffe	
Posizione staffe esterne	In automatico
Disegno staffe dentro la sezione	Si

Specifici	**1**	**2**	**3**
Materiali			
-Considera come elemento esistente	Si	No	No
-Calcestruzzo			
-Livello di conoscenza	LC1	LC2	LC2
-Fattore di confidenza	1.35	1.20	1.20
-Tipo di calcestruzzo	C20/25	C28/35	C28/35
-Rck calcestruzzo	230.00	350.00	350.00
-Modulo elastico <daN/cmq>	296664.00	325881.00	325881.00
-Resistenza caratteristica cilindrica (Fck)	190.90	290.50	290.50
-Resistenza caratteristica a trazione (Fctk)	15.00	19.84	19.84
-Resistenza media (Fcm) <daN/cmq>	270.90	370.50	370.50
-Resistenza media a trazione (Fctm) <daN/cmq>	21.43	28.35	28.35
-σ amm. calcestruzzo <daN/cmq>	80.00	110.00	110.00
-τc0 <daN/cmq>	5.10	6.70	6.70
-τc1 <daN/cmq>	16.30	19.70	19.70
-Riduci Fcd per tutte le verifiche secondo il D.M. 18	Si	Si	Si
-γ_c per stati limite ultimi			
-Automatico	x	x	x
-Pari a			
-Acciaio			
-Livello di conoscenza	LC3	LC2	LC2
-Fattore di confidenza	1.00	1.20	1.20
-Tipo di acciaio	44	B450C	B450C
-Modulo elastico <daN/cmq>	2060000.00	2060000.00	2060000.00
-Tensione caratteristica di snervamento (Fyk) <daN/cmq>	4400.00	4500.00	4500.00
-Tensione media di snervamento (Fym) <daN/cmq>	4400.00	4500.00	4500.00
-Sigma amm. acciaio <daN/cmq>	2600.00	2600.00	2600.00
-Sigma amm. reti e tralicci <daN/cmq>	2600.00	2600.00	2600.00
-Allungamento per verifiche di duttilità (Agt) <%>	4.00	4.00	4.00
-γ_s per stati limite ultimi			
-Automatico	x	x	x
-Pari a			
-Coeff. di omogeneizzazione	15.00	15.00	15.00
Parametri per analisi pushover			
Numero fibre	200.00	200.00	200.00
Fattore di confinamento nucleo interno	1.00	1.00	1.00
Fattore di incrudimento acciaio <%>	0.10	0.10	0.10
Parametri per verifiche di duttilità			
Considera rotazione massima di esercizio per determinare SLO e SLD	No	No	No
Modalità di calcolo luce di taglio Lv			
-Lv=L/2	x	x	x
-Lv=M/V			
-Lv=Punto di nullo del momento flettente			
Capacità di rotazione alla corda al collasso			
-Formula C8.7.2.1 con fattore di riduzione pari a			
-Formula C8.7.2.5	x	x	x

Sforzo normale di verifica per analisi pushover			
-Gravitazionale			
-Dal calcolo	x	x	x
Parametri di calcolo			
Progetto a pressoflessione	Si	Si	Si
-Per tutte le travi			
-Solo per travi inclinate	x	x	x
-Min. angolo per pressoflessione <grad>	10.00	10.00	10.00
-Compressione massima senza progetto a pressoflessione <%>	10.00	10.00	10.00
Progetto a torsione	No	No	No
-Trazione senza progetto a torsione<%>			
Armatura secondo Circ. 65 del 10/04/97	No	No	No
Parametri di progetto secondo il D.M. 18			
Elemento dissipativo	Si	Si	No
Trascura gerarchia	Si	No	No
Verifica a taglio ciclico elementi esistenti	No	No	No
Limita verifica a taglio ad elemento non dissipativo	No	Si	No
Elemento secondario	No	No	No
Sollecitazioni dissipative amplificate per elementi di fondazione	Si	Si	Si
Escludi dal calcolo sovraresistenza per pilastri incidenti	No	No	No
Sollecitazioni complanari ad eventuali elementi bidimensionali	No	No	No
Copriferro teorico superiore <cm>	4.10	4.10	4.10
Copriferro teorico inferiore <cm>	4.10	4.10	4.10
Min. momento fittizio agli appoggi	No	No	No
-Denominatore			
Min. momento fittizio in campata	No	No	No
-Denominatore			
Incremento percentuale momento in campata <%>	10.00	10.00	10.00
Usa taglio max per traslazione momento (S.L.)	Si	Si	Si
Limitare momento traslato al valore max di appoggio (S.L.)	No	No	No
Limitare momento traslato al valore max di campata (S.L.)	No	No	No
Taglio da momento resistente in fondazione (S.L.)	No	No	No
Tipo di progetto in doppia armatura (T.A.)			
-Tensioni pari ai valori amm.			
-Tensioni pari ai valori amm. con AfComp/AfTesa minore o pari a	1.00	1.00	1.00
-Con AfComp/AfTesa pari a			
Parametri di progettazione armatura			
Utilizzo			
-Trave	x	x	x
-Cordolo			
-Soletta rampante			
Max differenza fra diametri per unificazioni	2.00	2.00	2.00
Max distanza fra barre per unificazioni <m>	1.00	1.00	1.00
Denominatore per individuazione zona di campata	32.00	32.00	32.00
Fattore di copertura appoggi (0÷1)	0.00	0.00	0.00
Fattore di riduzione per ancoraggio ferri	1.00	1.00	1.00
Minimizzazione momenti resistenti di appoggio (stati limite D.M. 18)	Si	Si	Si
-Tolleranza di copertura da sovrapposizione <%>	10.00	0.00	0.00
Tipo di distribuzione armatura eccedente in fase di verifica			
-Ripartita proporzionalmente per flessione, torsione e taglio	x	x	x
-Tutta agente per flessione			
-Tutta agente per taglio			
Armatura a flessione			
Elenco diametri ferri longitudinali 1 <mm>	14	14	14
Elenco diametri ferri longitudinali 2 <mm>	16	16	16
Elenco diametri ferri longitudinali 3 <mm>	18	18	18
Elenco diametri ferri longitudinali 4 <mm>	20	20	20
Elenco diametri ferri longitudinali 5 <mm>	24	24	24
Elenco diametri ferri longitudinali 6 <mm>			
Elenco diametri ferri longitudinali 7 <mm>			
Max differenza fra diametri nella trave	8.00	8.00	8.00
Max differenza fra diametri ferri accoppiati	4.00	4.00	4.00
Reggistaffe superiori			
-Numero			
-Automatico		x	x
-Pari a	2.00		
-Max mutua distanza <cm>			
-Diametro			
-Automatico	x	x	x
-Pari a <mm>			
-Minimo <mm>			
Reggistaffe inferiori			
-Numero			
-Automatico		x	x
-Pari a	2.00		
-Max mutua distanza <cm>			
-Diametro			
-Automatico	x	x	x
-Pari a <mm>			
-Minimo <mm>			

Armatura a taglio			
Scorrimento (T.A.)			
-Percentuale assorbita dalle staffe <%>	100.00	100.00	100.00
-Percentuale assorbita dai ferri piegati <%>	0.00	0.00	0.00
-Percentuale assorbita dai ferri di parete <%>	0	0	0
-Considerare il valore relativo alle staffe come minimo percentuale da adottare	No	No	No
Variabilità staffe			
-Staffe uguali a passo costante			
-Staffe diverse in tre parti della trave in funzione delle zone critiche	x	x	x
-Staffe diverse in tre parti della trave in			
funzione di un multiplo dell'altezza pari a			
Variabilità staffe ala			
-Passi uguali a passi anima	x	x	x
-Passi multipli di passi anima			
-Passi indipendenti da passi anima			
Min. lunghezza tratto centrale come multiplo dell'altezza della trave	1.10	1.10	1.10
Elenco diametri staffe 1 <mm>	6	6	6
Elenco diametri staffe 2 <mm>	8	8	8
Elenco diametri staffe 3 <mm>			
Elenco diametri staffe 4 <mm>			
Elenco diametri staffe 5 <mm>			
Elenco diametri staffe 6 <mm>			
Elenco diametri staffe 7 <mm>			
Elenco numero bracci staffe 1	2	2	2
Elenco numero bracci staffe 2	4	4	4
Elenco numero bracci staffe 3			
Elenco numero bracci staffe 4			
Elenco numero bracci staffe 5			
Passi staffe			
-Minimo <cm>	4.00	4.00	4.00
-Massimo <cm>	32.00	32.00	32.00
-Incremento <cm>	4.00	4.00	4.00
Elementi costanti			
-Diametro	Si	Si	Si
-Passo	No	No	No
-Bracci	Si	Si	Si
Tipo di minimizzazione staffatura			
-Minimizza il numero delle staffe	x	x	x
-Minimizza il peso delle staffe			
Raffittimento staffe all'estremità della trave	No	No	No
-Passo non superiore a			
Lunghezza max del tratto di calcolo scorrimento			
-Pari al tratto in cui $\tau > \tau_{c0}$	x	x	x
-Pari a <cm>			
-Come multiplo dell'altezza pari a			
Armatura a taglio e torsione			
Elenco diametri ferri piegati 1 <mm>	12	12	12
Elenco diametri ferri piegati 2 <mm>	14	14	14
Elenco diametri ferri piegati 3 <mm>	16	16	16
Elenco diametri ferri piegati 4 <mm>	18	18	18
Elenco diametri ferri piegati 5 <mm>	20	20	20
Elenco diametri ferri piegati 6 <mm>			
Elenco diametri ferri piegati 7 <mm>			
Angolo di piegatura <grad>	45.00	45.00	45.00
Posizione primo punto di piegatura			
-Pari al multiplo dell'altezza			
-Distanza <cm>	5.00	5.00	5.00
Interasse punti di piegatura			
-Pari al multiplo dell'altezza			
-Distanza <cm>	25.00	25.00	25.00
Tipo di ferri piegati			
-Solo sagomati			
-Solo cavallotti			
-Sia sagomati che cavallotti	x	x	x
Ferri di parete	Si	Si	Si
-Max distanza fra le barre <cm>	30.00	30.00	30.00
Elenco diametri ferri di parete 1 <mm>	12	12	12
Elenco diametri ferri di parete 2 <mm>	14	14	14
Elenco diametri ferri di parete 3 <mm>	16	16	16
Elenco diametri ferri di parete 4 <mm>	18	18	18
Elenco diametri ferri di parete 5 <mm>	20	20	20
Elenco diametri ferri di parete 6 <mm>			
Elenco diametri ferri di parete 7 <mm>			
Elenco diametri staffe orizzontali 1 <mm>	6	6	6
Elenco diametri staffe orizzontali 2 <mm>	8	8	8
Elenco diametri staffe orizzontali 3 <mm>			
Elenco diametri staffe orizzontali 4 <mm>			
Elenco diametri staffe orizzontali 5 <mm>			
Elenco diametri staffe orizzontali 6 <mm>			
Elenco diametri staffe orizzontali 7 <mm>			
Parametri di disegno			
Copriferro per calcolo lunghezza ferri <cm>	6.00	6.00	6.00

Risvolto ferri superiori	Si	Si	Si
-Pari a <cm>	25.00	25.00	25.00
-Pari all'altezza della trave			
-Pari alla minima altezza delle travi incidenti			
Risvolto ferri inferiori	Si	Si	Si
-Pari a <cm>	25.00	25.00	25.00
-Pari all'altezza della trave			
-Pari alla minima altezza delle travi incidenti			
Risvolto ferri laterali	Si	Si	Si
-Pari a <cm>	25.00	25.00	25.00
-Pari alla larghezza della trave			
Magrone	Si	Si	Si
-Allargamento laterale <cm>	0.00	0.00	0.00
-Altezza <cm>	20.00	20.00	20.00
Dati per progettazione interattiva sezioni			
Copriferro reale al bordo staffa <cm>	2.50	2.50	2.50
Diametro staffa teorica <mm>	8.00	8.00	8.00
Distanza fra ferri su più strati <cm>	1.00	1.00	1.00
Verifiche a pressoflessione	Si	Si	Si
Verifica con barre in posizione teorica	No	No	No
Verifiche a flessione/pressoflessione retta	Si	Si	Si
-Considera My	x	x	x
-Considera Mz			
-Considera My e Mz			
Tipo di progetto in doppia armatura (T.A.)			
-Considera Vrdu minimo			
-Considera Vrdu calcolato in corrispondenza di bw minimo			
-Considera Vrdu in corrispondenza di bw medio	x	x	x
-Considera Vrdu in corrispondenza di bw massimo			
-Considera sempre Af Staffe non proiettata in direzione del taglio	Si	Si	Si
Integrare lo scorrimento lungo il tratto	Si	Si	Si
-Lunghezza del tratto <m>	1.00	1.00	1.00
Dati per progettazione agli stati limite			
Condizioni ambientali			
-Ordinarie	x	x	x
-Aggressive			
-Molto aggressive			
Usa dominio N-M per flessioni rette	Si	Si	Si
-Ricerca della sicurezza con sforzo normale costante			
-Ricerca della sicurezza con eccentricità costante	x	x	x
Controllo rapporto X/D	Si	Si	Si
Classificazione barre tese/compresse			
-Solo le barre con deformazione percentuale rispetto			
alla barra più tesa/compressa non inferiore a <%>	30.00	30.00	30.00
-In funzione della deformazione			
Dati per verifiche di resistenza al fuoco			
-Tempo di verifica (REI) <minuti>	120.00	120.00	120.00
Dimensione MESH <cm>	2.00	2.00	2.00
-Passo di calcolo <secondi>	10.00	10.00	10.00
-Temperatura ambiente <C°>	20.00	20.00	20.00
-Coeff. di convezione a temperatura ambiente <W/mq K>	9.00	9.00	9.00
Calcestruzzo			
-Tipo di aggregati	SILICEI	SILICEI	SILICEI
-Massa volumica iniziale <kg/mc>	2300.00	2300.00	2300.00
-Umidità iniziale <%>	3.00	3.00	3.00
-Fattore di interpolazione conducibilità	0.50	0.50	0.50
Dati per verifiche FRP			
Rinforzo longitudinale			
Tipo di fibra/resina			
-Vetro/Epossidica			
-Arammidica/Epossidica			
-Carbonio/Epossidica	x	x	x
Resistenza caratteristica(f_{fk}) <daN/cmq>	49000.00	49000.00	49000.00
Modulo elastico(E_c) <daN/cmq>	2500000.00	2500000.00	2500000.00
Deformazione caratteristica a rottura per trazione(ε_{fk}) <%>	2.00	2.00	2.00
Spessore equivalente(t_f) <mm>	0.17	0.17	0.17
Sistemi di rinforzo			
-Preformati			
-Impregnati in situ	x	x	x
Rinforzo trasversale			
Tipo di fibra/resina			
-Vetro/Epossidica			
-Arammidica/Epossidica			
-Carbonio/Epossidica	x	x	x
Resistenza caratteristica(f_{fk}) <daN/cmq>	49000.00	49000.00	49000.00
Modulo elastico(E_c) <daN/cmq>	2500000.00	2500000.00	2500000.00
Deformazione caratteristica a rottura per trazione(ε_{fk}) <%>	2.00	2.00	2.00
Spessore equivalente(t_f) <mm>	0.17	0.17	0.17
Sistemi di rinforzo			
-Preformati			

-Impregnati in situ	x	x	x
Modalità di carico			
-Lungo termine	x	x	x
-Ciclico			
Coeff. parziale SLU di distacco(γ_{fd})	1.50	1.50	1.50
Fattore di conversione ambientale(η_a)	0.95	0.95	0.95
Raggio di arrotondamento spigoli(r_c) <cm>	2.00	2.00	2.00
Coeff. condizione di carico(K_q)	1.25	1.25	1.25

Aste in acciaio

Generali	
Verifica aste in acciaio	
Numero punti di verifica	10.00
Numero CC da considerare di tipo I	99.00
Stati limite D.M. 18	
Verifiche con EC3	No
Coeff. amplificativo sollecitazioni per effetti del secondo ordine	1.00
Stampe	
Verifiche da riportare in relazione	Tutte
Stampa dettaglio verifiche	No

Specifici	**1**	**2**
Materiali		
CNR 10011		
Tipo di acciaio	FE360	FE430
D.M. 18		
Tipo di acciaio per profilati a sezione aperta	S235	S275
	UNI EN	UNI EN
	10025-2	10025-2
Tipo di acciaio per profilati a sezione cava	S235H	S235H
	UNI EN	UNI EN
	10210-1	10210-1
EC3		
Tipo di acciaio	S235	S275
-Fy <daN/cmq>	2350.00	2750.00
-Fu <daN/cmq>	3600.00	4300.00
-Fy,40 <daN/cmq>	2150.00	2550.00
-Fu,40 <daN/cmq>	3600.00	4100.00
γ M0	1.00	1.00
γ M1	1.00	1.00
γ M2	1.25	1.25
γ Rd	1.30	1.30
γ Ov	1.25	1.25
-Considera come elemento esistente (S.L. D.M. 18/EC3)	No	No
-Livello di conoscenza	LC1	LC1
-Fattore di confidenza	1.35	1.35
Verifiche di resistenza		
Rapporto fra area effettiva e area nominale	1.00	1.00
Rapporto fra area netta e area nominale	1.00	1.00
Coeff. di forma intorno all'asse Y	1.00	1.00
Coeff. di forma intorno all'asse Z	1.00	1.00
Verifica le bielle solo con sollecitazioni di trazione moltiplicate per	Si	Si
Valutare la τ per torsione nei punti di spigolo (CNR 10011)	No	No
-Pari a		
Stati limite D.M. 18/EC3		
-Elemento dissipativo	Si	Si
-Effettua le verifiche della gerarchia delle resistenze per strutture intelaiate	No	No
-Usa classe 1 in pressoflessione deviata se non presente in archivio	No	No
-Verifica in campo plastico elemento non dissipativo	No	No
Stati limite D.M. 18		
-Usa prescrizioni EC3 quando più dettagliate	Si	Si
-Considera prescrizioni relative ai ponti	No	No
Verifiche di resistenza sezioni generiche		
Spessore nominale <cm>	0.00	0.00
Momento di inerzia torsionale <cm4>	0.00	0.00
Costante di ingobbamento <cm6>	0.00	0.00
Riduzione resistenza flessionale come per sezioni a I	No	No
Area resistente a taglio in dir. Y locale <cmq>	0.00	0.00
Area resistente a taglio in dir. Z locale <cmq>	0.00	0.00
Verifiche di deformabilità		
Max valore del rapporto tra la luce e la freccia (totale)	250.00	250.00
Max valore del rapporto tra la luce e la freccia (solo accidentali)	300.00	300.00
Max valore del rapporto tra altezza e spostamento orizz. (aste)	300.00	300.00

Max valore del rapporto tra altezza e spostamento orizz. (membrature)	500.00	500.00
Considerare anche spostamento relativo nodi per calcolo freccia	No	No
Considerare solo la verifica di deformabilità delle membrature	Si	Si
Trascura deformazione dovuta al sisma (T.A.)	No	No
Verifiche di stabilità		
Riduzione lunghezza libera d'inflessione		
-Distanza fra i nodi dell'asta	x	x
-Distanza ridotta delle zone rigide moltiplicate per il valore		
Tipo di accoppiamento aste composte		
-Separate	x	x
-Calastrellate		
-Imbottite		
-Automatico		
Calcolo momento medio usando valori assoluti	Si	Si
Interasse calastrelli o imbottiture		
-Distanza pari a <m>		
-Interasse da normativa moltiplicato per il valore	0.80	0.80
-Aste rigidamente collegate		
Curva di stabilità (D.M. 18/EC3)	Automatica	Automatica
Aste laminate	Si	Si
Sigma max amm. senza verifiche di stabilità (CNR 10011) <%>	2.00	2.00
Verifica nei piani principali	Si	Si
Carichi sull'estradosso (CNR 10011)	Si	Si
Verifiche di stabilità asta		
Verifiche di stabilità globale nel piano XZ locale	Si	Si
-Coeff. β intorno all'asse Y	1.00	1.00
Verifiche di stabilità globale nel piano XY locale	Si	Si
-Coeff. β intorno all'asse Z	1.00	1.00
Verifiche di stabilità flesso - torsionale	Si	Si
-Coeff. per calcolo interasse ritegni torsionali	1.00	1.00
Eseguire anche le verifiche al punto 7.3.2 (CNR 10011)	Si	Si
Aste inflesse (D.M. 18/EC3)		
-Coeff. Ψ per calcolo momento critico		
-Valuta in base ai momenti dell'asta	x	x
-Utilizza valore imposto		
-Fattore correttivo di distribuzione K_c	0.94	0.94
-Snellezza di riferimento $\lambda_{LT,0}$	0.40	0.40
-Coeff. β	0.75	0.75
Aste pressoinflesse (D.M. 18/EC3)		
-Considera come molto deformabile a torsione	No	No
-Fattore correttivo di distribuzione α_{mY}/C_{mY}	0.95	0.95
-Fattore correttivo di distribuzione α_{mZ}/C_{mZ}	0.95	0.95
-Fattore correttivo di distribuzione α_{mLT}/C_{mLT}	0.95	0.95
Verifiche di stabilità all'imbozzamento (CNR 10011)		
-Numero irrigidimenti orizzontali anima	0.00	0.00
-Interasse irrigidimenti verticali anima		
-Numero di suddivisioni		
-Distanza non inferiore a <cm>		
-Pari alla lunghezza dell'asta	x	x
-Modalità di calcolo σ cr,id		
-Normativa		
-Massonet	x	x
-Ballio		
Verifiche di stabilità membratura		
Massimo numero aste costituenti unica membratura	1.00	4.00
Sforzo normale di verifica		
-Massimo valore fra tutte le aste	x	x
-Media aritmetica dei valori di tutte le aste		
-Media pesata di tutte le aste		
Contributo eventuali sforzi di trazione	No	No
Incremento snellezza	Si	Si
Verifiche di stabilità globale nel piano XZ locale	Si	Si
-Coeff. β intorno all'asse Y calcolato in funzione dello sforzo normale		
-Coeff. βintorno all'asse Y	1.00	1.00
Verifiche di stabilità globale nel piano XY locale	Si	Si
-Coeff. β intorno all'asse Z calcolato in funzione dello sforzo normale		
-Coeff. βintorno all'asse Z	1.00	1.00
Verifiche di stabilità flesso - torsionale	Si	Si
-Coeff. per calcolo interasse ritegni torsionali	1.00	1.00
Membrature inflesse (D.M. 18/EC3)		
-Coeff. Ψ per calcolo momento critico		
-Valuta in base ai momenti della membratura	x	x
-Utilizza valore imposto		
-Fattore correttivo di distribuzione K_c	0.94	0.94
-Snellezza di riferimento $\lambda_{LT,0}$	0.40	0.40
-Coeff. β	0.75	0.75
Membrature pressoinflesse (D.M. 18/EC3)		
-Considera come molto deformabile a torsione	No	No

-Fattore correttivo di distribuzione α_{mY}/C_{mY}	0.95	0.95
-Fattore correttivo di distribuzione α_{mZ}/C_{mZ}	0.95	0.95
-Fattore correttivo di distribuzione α_{mLT}/C_{mLT}	0.95	0.95
Dati per verifiche di resistenza al fuoco		
-Tempo di verifica (REI) <minuti>	120.00	120.00
-Fattore di momento uniforme equivalente β M, y	1.10	1.10
-Fattore di momento uniforme equivalente β M, z	1.10	1.10
-Fattore di momento uniforme equivalente β M, LT	1.10	1.10

Pareti

Generali	
Parametri di disegno	
Scala disegno pareti	50.00
Campitura disegno parete	Rada
Disegno armatura diffusa	No
Disegno prospetto e pianta	Sempre
Stampe	
Tipo di relazione	Sintetica

Specifici	**1**	**2**
Materiali		
-Considera come elemento esistente	Si	No
-Calcestruzzo		
-Livello di conoscenza	LC1	LC2
-Fattore di confidenza	1.35	1.20
-Tipo di calcestruzzo	C20/25	C28/35
-Rck calcestruzzo	230.00	350.00
-Modulo elastico <daN/cmq>	296664.00	325881.00
-Resistenza caratteristica cilindrica (Fck)	190.90	290.50
-Resistenza caratteristica a trazione (Fctk)	15.00	19.84
-Resistenza media (Fcm) <daN/cmq>	270.90	370.50
-Resistenza media a trazione (Fctm) <daN/cmq>	21.43	28.35
-σ amm. calcestruzzo <daN/cmq>	80.00	110.00
-τc0 <daN/cmq>	5.10	6.70
-τc1 <daN/cmq>	16.30	19.70
-Riduci Fcd per tutte le verifiche secondo il D.M. 18	Si	Si
-γ_c per stati limite ultimi		
-Automatico	x	x
-Pari a		
-Acciaio		
-Livello di conoscenza	LC3	LC2
-Fattore di confidenza	1.00	1.20
-Tipo di acciaio	44	B450C
-Modulo elastico <daN/cmq>	2060000.00	2060000.00
-Tensione caratteristica di snervamento (Fyk) <daN/cmq>	4300.00	4500.00
-Tensione media di snervamento (Fym) <daN/cmq>	4300.00	4500.00
-Sigma amm. acciaio <daN/cmq>	2600.00	2600.00
-Sigma amm. reti e tralicci <daN/cmq>	2600.00	2600.00
-Allungamento per verifiche di duttilità (Agt) <%>	4.00	4.00
-γ_s per stati limite ultimi		
-Automatico	x	x
-Pari a		
-Coeff. di omogeneizzazione	15.00	15.00
Parametri di calcolo		
Elemento dissipativo	No	No
Copriferro <cm>	2.50	2.50
Fattore moltiplicativo per calcolo τ l	1.00	1.00
Fattore moltiplicativo per calcolo τ t	1.00	1.00
Fattore di riduzione per ancoraggio ferri	1.00	1.00
Lunghezza ancoraggi armature		
-Calcolata in funzione della σ f		
-Imposta come multiplo del diametro	20.00	20.00
Lunghezza minima pari a <m>	0.50	0.50
-Inserire solo armatura al centro della parete	No	No
Modalità di progettazione e verifica armatura verticale		
-In funzione delle zone di incidenza elementi		
-In funzione delle sollecitazioni globali	x	x
-Inserisci armatura di rinforzo nelle zone di incidenza elementi	Si	Si
-Dimensione minima zone di incidenza elementi	Si	Si
-Pari a multiplo dello spessore	1.00	1.00
-Passo di verifica	1.50	1.50
-Trascura zone con pilastro inglobato	Si	Si
-Effettuare verifiche nel piano della parete	No	Si
-Elimina armatura diffusa nelle zone di rinforzo	Si	Si

Elimina armatura diffusa nell'architrave	Si	Si
-Effettuare verifiche su sezioni verticali	No	No
-Passo di verifica	1.00	1.00
Controllare resistenza a taglio trasversale come sezione priva di armatura a taglio	No	Si
Min. Af armatura diffusa <cmq/m>	3.00	3.00
Considera come parete debolmente armata ai sensi D.M. 18	No	No
-Modalità di valutazione parametri nel caso di sisma diverso per X e Y		
-Usa valore massimo	x	x
-Componi in direzione parete		
-Incremento del 50% delle forze assiali		
Sempre	x	x
-Solo per analisi sismiche statiche		
-Mai		
Coeff. β per controllo snellezza <m>	1.00	1.00
Armatura diffusa		
Considera armatura con rete elettrosaldata	No	No
Armatura verticale o rete		
Elenco diametri utilizzabili 1 <mm>	10	10
Elenco diametri utilizzabili 2 <mm>	12	12
Elenco diametri utilizzabili 3 <mm>		
Elenco diametri utilizzabili 4 <mm>		
Elenco diametri utilizzabili 5 <mm>		
Elenco diametri utilizzabili 6 <mm>		
Elenco diametri utilizzabili 7 <mm>		
Passi utilizzabili		
-Minimo <cm>	15.00	15.00
-Massimo <cm>	30.00	30.00
-Incremento <cm>	5.00	5.00
-Modalità di completamento armatura		
-Adattata	x	x
-Terminata		
-Nessuna		
Armatura orizzontale		
Elenco diametri utilizzabili 1 <mm>	8	8
Elenco diametri utilizzabili 2 <mm>	10	10
Elenco diametri utilizzabili 3 <mm>		
Elenco diametri utilizzabili 4 <mm>		
Elenco diametri utilizzabili 5 <mm>		
Elenco diametri utilizzabili 6 <mm>		
Elenco diametri utilizzabili 7 <mm>		
Passi utilizzabili		
-Minimo <cm>	10.00	10.00
-Massimo <cm>	30.00	30.00
-Incremento <cm>	5.00	5.00
Tipo di armatura orizzontale		
-Dritta	x	x
-Con risvolti di estremità		
-Modalità di chiusura orizzontale		
-Nessuna chiusura		
-Chiusura con ferri ad U	x	x
-Chiusura con staffe		
-Lunghezza armatura di chiusura		
-Multiplo dello spessore pari a		
-Lunghezza fissa pari a <cm>	0.50	0.50
-Tipo di ottimizzazione armatura		
-Minimizza il peso complessivo dei ferri	x	x
-Minimizza il numero dei ferri		
Armatura di rinforzo		
Elenco diametri utilizzabili 1 <mm>	16	16
Elenco diametri utilizzabili 2 <mm>		
Elenco diametri utilizzabili 3 <mm>		
Elenco diametri utilizzabili 4 <mm>		
Elenco diametri utilizzabili 5 <mm>		
Elenco diametri utilizzabili 6 <mm>		
Elenco diametri utilizzabili 7 <mm>		
Numero minimo ferri	2.00	2.00
Interferro minimo sotto il quale non è possibile aggiungere ferri <cm>	10.00	10.00
-Aggiungi staffe chiuse	Si	Si
-Stesso diametro armatura diffusa orizzontale	x	x
-Diametro imposto		
-Stesso passo armatura diffusa orizzontale	x	x
-Passo imposto		
Armatura secondaria		
Diametro ferri di collegamento <mm>	6.00	6.00
Numero ferri di collegamento (a mq)	6.00	6.00
Lunghezza ancoraggio ferri di collegamento <cm>	10.00	10.00
Dati per progettazione agli stati limite		
Condizioni ambientali		
-Ordinarie	x	x
-Aggressive		

-Molto aggressive		
Controllo rapporto X/D	No	No
Classificazione barre tese/compresse		
-Solo le barre con deformazione percentuale rispetto		
alla barra più tesa/compressa non inferiore a <%>	30.00	30.00
-In funzione della deformazione		

Nodi in acciaio

Generali	
Parametri di disegno reticolari	
Scala disegno esecutivo reticolare	10.00
Disegna a parte particolari collegamenti	Si
Scala disegno particolari collegamenti	5.00
Crea solo disegno schematico	No
Scala disegno schematico	25.00
Parametri di disegno collegamenti	
Scala disegno collegamenti	5.00
Scala disegno telai	10.00
Stampe	
Tipo di relazione	Sintetica

Specifici	**1**	**2**
Progettazione bullonature		
Elenco diametri bulloni utilizzabili 1 <mm>	12	12
Elenco diametri bulloni utilizzabili 2 <mm>	14	14
Elenco diametri bulloni utilizzabili 3 <mm>	16	16
Elenco diametri bulloni utilizzabili 4 <mm>	18	18
Elenco diametri bulloni utilizzabili 5 <mm>	20	20
Elenco diametri bulloni utilizzabili 6 <mm>	22	
Elenco diametri bulloni utilizzabili 7 <mm>	24	
Elenco diametri bulloni utilizzabili 8 <mm>	27	
Elenco diametri bulloni utilizzabili 9 <mm>	30	
Numero minimo bulloni	2.00	2.00
Classe bulloni	6.8	6.8
Zona filettata	Si	Si
Progettazione saldature		
Arretra piastra nelle saldature di bordo	Si	Si
Saldature con dimensioni bilanciate	Si	Si
Classe saldature a completa penetrazione	SECONDA	SECONDA
Arrotondamento lunghezza cordoni di saldatura	5.00	5.00
Rapporto minimo fra lunghezza e spessore cordone	15.00	15.00
Altezza della saldatura		
-Uguale allo spessore del profilato		
-Valore minimo tra profilato e la piastra	x	x
Progettazione reticolari		
Rendi continue aste allineate	Si	Si
Modalità di calcolo sforzo normale per giunti su aste continue		
-Considera per ogni semigiunto le sollecitazioni di calcolo delle aste	x	x
-Considera per ogni semigiunto la differenza fra le sollecitazioni delle aste		
-Considera per ogni semigiunto la differenza fra le sollecitazioni delle aste divisa per due		
-Considera per ogni semigiunto il massimo fra le sollecitazioni delle aste diviso per due		
Finali equidistanti per aste incrociate	Si	Si
Forma della piastra		
-Rettangolare		
-Poligonale	x	x
Massimo ingombro collegamento lungo il profilo	33.00	33.00
Allargamento piastra ai lati del profilo	10.00	10.00
Minimo spazio libero tra i profili	10.00	10.00
Spessore piastra se non imposto dal profilo	10.00	10.00
Progettazione collegamenti		
Trascura sollecitazioni teoricamente nulle	No	Si
Componenti sollecitazioni da trascurare		
-Sforzo normale	No	No
-Taglio in dir. Y	No	Si
-Taglio in dir. Z	No	No
-Momento torcente intorno all'asse X	Si	Si
-Momento flettente intorno all'asse Y	No	No
-Momento flettente intorno all'asse Z	No	Si
Considera solo bulloni per verifiche a flessione	No	No
Angolo massimo di incidenza <grad>	15.00	20.00
Piastre di fondazione		
-Elenco diametri tirafondi utilizzabili 1 <mm>	12	12

-Elenco diametri tirafondi utilizzabili 2 <mm>	16	16
-Elenco diametri tirafondi utilizzabili 3 <mm>	20	20
-Elenco diametri tirafondi utilizzabili 4 <mm>	30	30
-Elenco diametri tirafondi utilizzabili 5 <mm>		
-Elenco diametri tirafondi utilizzabili 6 <mm>		
-Elenco diametri tirafondi utilizzabili 7 <mm>		
-Elenco diametri tirafondi utilizzabili 8 <mm>		
-Elenco diametri tirafondi utilizzabili 9 <mm>		
Lunghezza minima d'infissione <mm>	0.40	0.40
-Verifica piastra e tirafondi con reazioni vincolari	No	No
-Trascura tirafondi compressi	Si	No
-Tirafondi con barre filettate	No	No
-Tipo di tirafondi	UNCINI	UNCINI
-Fattore di riduzione per ancoraggio tirafondi	1.00	0.70
Piastra circolare per sezioni circolari cave	Si	Si
Numero minimo bulloni per piastra circolare	6.00	6.00
Collegamenti a piastra d'anima di aste inclinate con piastra di forma rettangolare	Si	Si
Disposizione della piastra nel collegamento "continuità con flangia"	Orto. finale	Orto. finale
Disposizione della piastra nel collegamento "piastra di fondazione"	Ortogonale	Ortogonale
Progetta i collegamenti ignorando i controlli sulle distanze della bullonatura	Si	Si
Verifiche ai sensi D.M. 18		
Esposizione a fenomeni corrosivi		
Unione non esposta alla corrosione	x	x
Unione esposta alla corrosione		
Unioni di elementi in acciaio resistente alla corrosione		

Verifiche e armature travi

Simbologia

Δ_{sm} =Distanza media tra le fessure
Φ_{eq} =Diametro equivalente delle barre
ε_{sm} =Deformazione unitaria media dell'armatura (*1000)
σ_c =Tensione nel calcestruzzo
σ_f inf =Tensione nel ferro - inferiore
σ_f sup =Tensione nel ferro - superiore
σ_s =Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ =Area di calcestruzzo efficace
A_s =Area complessiva dei ferri nell'area di calcestruzzo efficace
AfE I =Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfE S =Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE St. =Area di ferro effettiva della staffatura (d'anima per travi a T o L)
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
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
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
K_2 =Coefficiente per distribuzione deformazioni
Lung. =Lunghezza del tratto di progettazione
M'ydy =Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
MRdy =Momento resistente allo stato limite ultimo intorno all'asse Y
My =Momento flettente intorno all'asse Y
N =Sforzo normale
Nu =Sforzo normale ultimo
Sez. =Numero della sezione
Sic. =Sicurezza
Staff. =Staffatura adottata
TCC =Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)

Tipo =Tipologia
2Cdx = Doppia C lato costola
L = Sezione a L
R = Rettangolare
T = Sezione a T
Cs = C stondata
Is = I stondata
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. 101

Nodi: 101 102 103 104 105 106 107 108 109 110

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>
17	R	30.00	73.50	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	SLV	1	0.00	2.26	2.26	2.26	2.26	-2798.51	-6872.41	2.456
2.05	3	SLV	2	90.00	2.26	2.26	2.26	2.26	1812.45	6872.41	3.792
2.25	1	SLV	3	10.00	2.26	2.26	2.26	2.26	-1198.89	-6872.41	5.732
3.15	1	SLV	4	0.00	2.26	2.26	2.26	2.26	1536.20	6872.41	4.474
4.60	1	SLV	4	145.00	2.26	2.26	2.26	2.26	-2944.89	-6872.41	2.334
4.90	1	SLV	5	15.00	2.26	2.26	2.26	2.26	-2894.86	-6872.41	2.374
7.25	1	SLV	6	90.00	2.26	2.26	2.26	2.26	-1301.43	-6872.41	5.281
7.45	1	SLV	7	10.00	2.26	2.26	2.26	2.26	-1310.29	-6872.41	5.245
7.85	1	SLV	7	50.00	2.26	2.26	2.26	2.26	-1347.11	-6872.41	5.102
8.25	1	SLV	7	90.00	2.26	2.26	2.26	2.26	-1347.11	-6872.41	5.102
8.45	3	SLV	8	10.00	2.26	2.26	2.26	2.26	1604.36	6872.41	4.284
9.67	1	SLV	9	31.67	2.26	2.26	2.26	2.26	-2930.39	-6872.41	2.345
10.30	1	SLV	9	95.00	2.26	2.26	2.26	2.26	-2930.39	-6872.41	2.345

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	10	SLE R	1	0.00	2.26	2.26	887.67	-68.59	597.00	7.36
0.00	14	SLE Q	1	0.00	2.26	2.26	762.29	-58.90	512.68	6.32
2.05	10	SLE R	2	90.00	2.26	2.26	861.11	-66.53	579.14	7.14
2.05	14	SLE Q	2	90.00	2.26	2.26	732.26	-56.58	492.49	6.07
2.25	10	SLE R	3	10.00	2.26	2.26	788.34	-60.91	530.20	6.54
2.25	14	SLE Q	3	10.00	2.26	2.26	667.16	-51.55	448.70	5.53
3.15	10	SLE R	4	0.00	2.26	2.26	854.52	-66.03	574.71	7.08
3.15	14	SLE Q	4	0.00	2.26	2.26	727.07	-56.18	488.99	6.03
4.60	10	SLE R	4	145.00	2.26	2.26	-1268.86	853.38	-98.04	10.52
4.60	14	SLE Q	4	145.00	2.26	2.26	-1097.25	737.96	-84.78	9.10
4.90	10	SLE R	5	15.00	2.26	2.26	-1232.06	828.62	-95.20	10.21
4.90	14	SLE Q	5	15.00	2.26	2.26	-1064.48	715.92	-82.25	8.82
7.25	10	SLE R	6	90.00	2.26	2.26	-644.55	433.49	-49.80	5.34
7.25	14	SLE Q	6	90.00	2.26	2.26	-575.64	387.15	-44.48	4.77
7.45	10	SLE R	7	10.00	2.26	2.26	-771.18	518.66	-59.59	6.39
7.45	14	SLE Q	7	10.00	2.26	2.26	-687.70	462.51	-53.14	5.70
7.85	10	SLE R	7	50.00	2.26	2.26	-771.18	518.66	-59.59	6.39
7.85	14	SLE Q	7	50.00	2.26	2.26	-687.70	462.51	-53.14	5.70
8.25	10	SLE R	7	90.00	2.26	2.26	-753.29	506.63	-58.20	6.24
8.25	14	SLE Q	7	90.00	2.26	2.26	-672.46	452.27	-51.96	5.57
8.45	10	SLE R	8	10.00	2.26	2.26	-585.78	393.97	-45.26	4.86
8.45	14	SLE Q	8	10.00	2.26	2.26	-537.97	361.81	-41.57	4.46
9.67	10	SLE R	9	31.67	2.26	2.26	645.35	-49.86	434.03	5.35
9.67	14	SLE Q	9	31.67	2.26	2.26	547.25	-42.28	368.06	4.54
10.30	10	SLE R	9	95.00	2.26	2.26	641.53	-49.57	431.46	5.32
10.30	14	SLE Q	9	95.00	2.26	2.26	545.03	-42.11	366.56	4.52

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>
22	0.00	14	SLE Q	1	17	0.00	762.29	35.00	222.00	0.50	12.00	470.03	2.26	307.50	512.68	0.15	0.12
26	0.00	12	SLE F	1	17	0.00	771.71	35.00	222.00	0.50	12.00	470.03	2.26	307.50	519.02	0.15	0.12
54	2.05	14	SLE Q	2	17	90.00	732.26	35.00	222.00	0.50	12.00	470.03	2.26	307.50	492.49	0.14	0.11
58	2.05	12	SLE F	2	17	90.00	742.03	35.00	222.00	0.50	12.00	470.03	2.26	307.50	499.06	0.15	0.12
86	2.25	14	SLE Q	3	17	10.00	667.16	35.00	222.00	0.50	12.00	470.03	2.26	307.50	448.70	0.13	0.10

90	2.25	12	SLE	F	3	17	10.00	676.56	35.00	222.00	0.50	12.00	470.03	2.26	307.50	455.02	0.13	0.11
111	3.15	14	SLE	Q	4	17	0.00	727.07	35.00	222.00	0.50	12.00	470.03	2.26	307.50	488.99	0.14	0.11
113	3.15	12	SLE	F	4	17	0.00	736.94	35.00	222.00	0.50	12.00	470.03	2.26	307.50	495.63	0.14	0.12
138	4.60	14	SLE	Q	4	17	145.00	-1097.25	35.00	222.00	0.50	12.00	470.03	2.26	307.50	737.96	0.21	0.17
142	4.60	12	SLE	F	4	17	145.00	-1110.56	35.00	222.00	0.50	12.00	470.03	2.26	307.50	746.91	0.22	0.17
170	4.90	14	SLE	Q	5	17	15.00	-1064.48	35.00	222.00	0.50	12.00	470.03	2.26	307.50	715.92	0.21	0.17
174	4.90	12	SLE	F	5	17	15.00	-1077.20	35.00	222.00	0.50	12.00	470.03	2.26	307.50	724.48	0.21	0.17
203	7.25	14	SLE	Q	6	17	90.00	-575.64	35.00	222.00	0.50	12.00	470.03	2.26	307.50	387.15	0.11	0.09
207	7.25	12	SLE	F	6	17	90.00	-581.50	35.00	222.00	0.50	12.00	470.03	2.26	307.50	391.09	0.11	0.09
225	7.45	14	SLE	Q	7	17	10.00	-687.70	35.00	222.00	0.50	12.00	470.03	2.26	307.50	462.51	0.13	0.11
227	7.45	12	SLE	F	7	17	10.00	-694.68	35.00	222.00	0.50	12.00	470.03	2.26	307.50	467.21	0.14	0.11
244	7.85	14	SLE	Q	7	17	50.00	-687.70	35.00	222.00	0.50	12.00	470.03	2.26	307.50	462.51	0.13	0.11
246	7.85	12	SLE	F	7	17	50.00	-694.68	35.00	222.00	0.50	12.00	470.03	2.26	307.50	467.21	0.14	0.11
263	8.25	14	SLE	Q	7	17	90.00	-672.46	35.00	222.00	0.50	12.00	470.03	2.26	307.50	452.27	0.13	0.11
265	8.25	12	SLE	F	7	17	90.00	-679.25	35.00	222.00	0.50	12.00	470.03	2.26	307.50	456.83	0.13	0.11
290	8.45	14	SLE	Q	8	17	10.00	-537.97	35.00	222.00	0.50	12.00	470.03	2.26	307.50	361.81	0.11	0.08
294	8.45	12	SLE	F	8	17	10.00	-542.62	35.00	222.00	0.50	12.00	470.03	2.26	307.50	364.94	0.11	0.08
318	9.67	14	SLE	Q	9	17	31.67	547.25	35.00	222.00	0.50	12.00	470.03	2.26	307.50	368.06	0.11	0.09
322	9.67	12	SLE	F	9	17	31.67	553.86	35.00	222.00	0.50	12.00	470.03	2.26	307.50	372.50	0.11	0.09
346	10.30	14	SLE	Q	9	17	95.00	545.03	35.00	222.00	0.50	12.00	470.03	2.26	307.50	366.56	0.11	0.09
350	10.30	12	SLE	F	9	17	95.00	551.53	35.00	222.00	0.50	12.00	470.03	2.26	307.50	370.93	0.11	0.09

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 SLV	0.00	2.05	2.05	ø8/20 2 br.	5.03	0.30	3430.78	2.50	30030.80	36736.50	30030.80	8.753
1 SLV	2.25	2.99	0.74	ø8/20 2 br.	5.03	0.30	3135.58	2.50	30030.80	36736.50	30030.80	9.577
1 SLV	2.99	3.86	0.88	ø8/20 2 br.	5.03	0.30	2313.66	2.50	30030.80	36736.50	30030.80	12.980
7 SLU	3.86	4.60	0.74	ø8/20 2 br.	5.03	0.30	4054.48	2.50	30030.80	36736.50	30030.80	7.407
7 SLU	4.90	5.64	0.74	ø8/20 2 br.	5.03	0.30	3888.61	2.50	30030.80	36736.50	30030.80	7.723
1 SLV	5.64	6.51	0.88	ø8/20 2 br.	5.03	0.30	2159.76	2.50	30030.80	36736.50	30030.80	13.905
7 SLU	6.51	7.25	0.74	ø8/20 2 br.	5.03	0.30	3220.83	2.50	30030.80	36736.50	30030.80	9.324
1 SLV	7.45	8.25	0.80	ø8/20 2 br.	5.03	0.30	1983.57	2.50	30030.80	36736.50	30030.80	15.140
1 SLV	8.45	10.30	1.85	ø8/20 2 br.	5.03	0.30	3674.06	2.50	30030.80	36736.50	30030.80	8.174

Travata n. 102

Nodi: 114 -752 -753 -754 -755 -756 -757 -758 -759 -760 115 116 -761 -762 -763 -764 117 118 -765 -766 -767 -768 -769 -770 -771 119

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>
16	L	30.00	37.50	16.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09
27	R	45.00		40.00		4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
1.52	1	SLV	4	0.00	3.08	3.08	3.08	3.08	-5986.27	-6949.94	1.161
3.42	1	SLV	7	57.50	3.08	3.08	3.08	3.08	4366.62	6869.64	1.573
4.90	1	SLV	11	15.00	3.08	3.08	3.08	3.08	-5904.23	-6949.94	1.177
7.85	1	SLV	11	309.75	3.08	3.08	3.08	3.08	-5293.04	-6949.94	1.313
8.18	1	SLV	11	342.50	3.08	3.08	3.08	3.08	-5293.04	-6949.94	1.313
10.60	5	SLU	17	15.00	3.08	3.08	3.08	3.08	182.73	4856.77	26.580
10.98	5	SLU	17	53.33	3.08	3.08	3.08	3.08	200.48	4856.77	24.225
11.75	5	SLU	17	130.00	3.08	3.08	3.08	3.08	182.73	4856.77	26.579
13.18	1	SLV	21	0.00	3.08	3.08	3.08	3.08	-2593.95	-4856.77	1.872
15.02	1	SLV	21	184.29	3.08	3.08	3.08	3.08	-3076.16	-4856.77	1.579
15.32	1	SLV	21	215.00	3.08	3.08	3.08	3.08	-3076.16	-4856.77	1.579

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>
1.52	10	SLE R	4	0.00	3.08	3.08	-892.97	596.76	-76.59	8.96
1.52	14	SLE Q	4	0.00	3.08	3.08	-790.82	528.50	-67.83	7.93
3.42	10	SLE R	7	57.50	3.08	3.08	122.10	-12.47	82.05	1.37
3.42	14	SLE Q	7	57.50	3.08	3.08	101.56	-10.38	68.25	1.14
4.90	8	SLE R	11	15.00	3.08	3.08	-1832.94	1224.92	-157.20	18.38
4.90	14	SLE Q	11	15.00	3.08	3.08	-1695.39	1133.00	-145.41	17.00
7.85	8	SLE R	11	309.75	3.08	3.08	1050.10	-107.28	705.66	11.80
7.85	14	SLE Q	11	309.75	3.08	3.08	967.63	-98.85	650.24	10.87
8.18	10	SLE R	11	342.50	3.08	3.08	-925.79	618.69	-79.40	9.29
8.18	14	SLE Q	11	342.50	3.08	3.08	-834.70	557.82	-71.59	8.37
10.60	8	SLE R	17	15.00	3.08	3.08	136.73	-14.60	133.36	2.25
10.60	14	SLE Q	17	15.00	3.08	3.08	126.79	-13.54	123.66	2.08
10.98	8	SLE R	17	53.33	3.08	3.08	150.02	-16.02	146.32	2.46
10.98	14	SLE Q	17	53.33	3.08	3.08	139.11	-14.85	135.68	2.28
11.75	8	SLE R	17	130.00	3.08	3.08	136.73	-14.60	133.36	2.25
11.75	14	SLE Q	17	130.00	3.08	3.08	126.79	-13.54	123.66	2.08
13.18	8	SLE R	21	0.00	3.08	3.08	-184.71	180.15	-19.72	3.03
13.18	14	SLE Q	21	0.00	3.08	3.08	-180.20	175.75	-19.24	2.96
15.02	8	SLE R	21	184.29	3.08	3.08	-392.13	382.45	-41.87	6.44
15.02	14	SLE Q	21	184.29	3.08	3.08	-355.64	346.87	-37.98	5.84
15.32	8	SLE R	21	215.00	3.08	3.08	-392.13	382.45	-41.87	6.44
15.32	14	SLE Q	21	215.00	3.08	3.08	-355.64	346.87	-37.98	5.84

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/cmq>	ε_{sm}	Wk <mm>
15	1.52	14	SLE Q	4	16	0.00	-790.82	34.00	220.00	0.50	14.00	348.47	3.08	307.50	528.50	0.15	0.09
17	1.52	12	SLE F	4	16	0.00	-800.12	34.00	220.00	0.50	14.00	348.47	3.08	307.50	534.71	0.16	0.09
40	3.42	14	SLE Q	7	16	57.50	101.56	34.00	295.00	0.50	14.00	341.94	3.08	384.38	68.25	0.02	0.01
46	3.42	13	SLE F	7	16	57.50	101.56	34.00	295.00	0.50	14.00	341.94	3.08	384.38	68.25	0.02	0.01
62	4.90	14	SLE Q	11	16	15.00	-1695.39	34.00	220.00	0.50	14.00	348.47	3.08	307.50	1133.00	0.33	0.20
63	4.90	11	SLE F	11	16	15.00	-1729.58	34.00	220.00	0.50	14.00	348.47	3.08	307.50	1155.85	0.34	0.20
89	7.85	14	SLE Q	11	16	309.75	967.63	34.00	295.00	0.50	14.00	341.94	3.08	384.38	650.24	0.19	0.11
91	7.85	11	SLE F	11	16	309.75	987.03	34.00	295.00	0.50	14.00	341.94	3.08	384.38	663.28	0.19	0.11
118	8.18	14	SLE Q	11	16	342.50	-834.70	34.00	220.00	0.50	14.00	348.47	3.08	307.50	557.82	0.16	0.10
120	8.18	11	SLE F	11	16	342.50	-854.07	34.00	220.00	0.50	14.00	348.47	3.08	307.50	570.76	0.17	0.10
154	10.60	14	SLE Q	17	27	15.00	126.79	34.00	370.00	0.50	14.00	277.74	3.08	461.25	123.66	0.04	0.02
156	10.60	11	SLE F	17	27	15.00	129.28	34.00	370.00	0.50	14.00	277.74	3.08	461.25	126.08	0.04	0.02
190	10.98	14	SLE Q	17	27	53.33	139.11	34.00	370.00	0.50	14.00	277.74	3.08	461.25	135.68	0.04	0.02
192	10.98	11	SLE F	17	27	53.33	141.84	34.00	370.00	0.50	14.00	277.74	3.08	461.25	138.34	0.04	0.02
212	11.75	14	SLE Q	17	27	130.00	126.79	34.00	370.00	0.50	14.00	277.74	3.08	461.25	123.66	0.04	0.02
213	11.75	11	SLE F	17	27	130.00	129.28	34.00	370.00	0.50	14.00	277.74	3.08	461.25	126.08	0.04	0.02
238	13.18	14	SLE Q	21	27	0.00	-180.20	34.00	370.00	0.50	14.00	277.74	3.08	461.25	175.75	0.05	0.02
240	13.18	11	SLE F	21	27	0.00	-181.73	34.00	370.00	0.50	14.00	277.74	3.08	461.25	177.24	0.05	0.02
267	15.02	14	SLE Q	21	27	184.29	-355.64	34.00	370.00	0.50	14.00	277.74	3.08	461.25	346.87	0.10	0.05
269	15.02	11	SLE F	21	27	184.29	-363.48	34.00	370.00	0.50	14.00	277.74	3.08	461.25	354.51	0.10	0.05
289	15.32	14	SLE Q	21	27	215.00	-355.64	34.00	370.00	0.50	14.00	277.74	3.08	461.25	346.87	0.10	0.05
290	15.32	11	SLE F	21	27	215.00	-363.48	34.00	370.00	0.50	14.00	277.74	3.08	461.25	354.51	0.10	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 SLV	1.52	2.08	0.56	ø8/20 2 br.	5.03	0.30	6200.68	2.50	22458.20	27473.00	22458.20	3.622
1 SLV	2.08	2.87	0.78	ø8/20 2 br.	5.03	0.30	5633.88	2.50	22458.20	27473.00	22458.20	3.986
1 SLV	2.87	3.42	0.56	ø8/20 2 br.	5.03	0.30	5449.59	2.50	22458.20	27473.00	22458.20	4.121
1 SLV	4.90	5.46	0.56	ø8/20 2 br.	5.03	0.30	5879.57	2.50	22458.20	27473.00	22458.20	3.820
1 SLV	5.46	7.62	2.15	ø8/20 2 br.	5.03	0.30	4863.68	2.50	22458.20	27473.00	22458.20	4.618
1 SLV	7.62	8.18	0.56	ø8/20 2 br.	5.03	0.30	5353.96	2.50	22458.20	27473.00	22458.20	4.195
5 SLU	10.60	11.75	1.15	ø8/20 2 br.	5.03	0.45	633.94	2.50	15534.70	28505.20	15534.70	24.505
1 SLV	13.18	13.57	0.40	ø8/20 2 br.	5.03	0.45	3128.36	2.50	15534.70	28505.20	15534.70	4.966
1 SLV	13.57	14.93	1.35	ø8/20 2 br.	5.03	0.45	2985.56	2.50	15534.70	28505.20	15534.70	5.203
1 SLV	14.93	15.32	0.40	ø8/20 2 br.	5.03	0.45	3291.57	2.50	15534.70	28505.20	15534.70	4.720

Travata n. 103

Nodi: 121 -786 -787 -788 -789 122 -1097 123

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>
8	R	30.00	33.50	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
1.52	1	SLV	5	0.00	2.26	2.26	2.26	2.26	-1170.17	-2891.38	2.471
4.98	1	SLV	5	345.97	2.26	2.26	2.26	2.26	-804.26	-2891.38	3.595
6.00	1	SLV	5	447.50	2.26	2.26	2.26	2.26	-1382.75	-2891.38	2.091
6.30	1	SLV	6	30.00	2.26	2.26	2.26	2.26	-1384.29	-2891.38	2.089
10.60	3	SLV	7	-10.00	2.26	2.26	2.26	2.26	-1035.43	-2891.38	2.792

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>
1.52	10	SLE R	5	0.00	2.26	2.26	-440.49	722.85	-83.93	14.31
1.52	14	SLE Q	5	0.00	2.26	2.26	-424.77	697.05	-80.94	13.80
4.98	10	SLE R	5	345.97	2.26	2.26	135.77	-25.87	222.79	4.41
4.98	14	SLE Q	5	345.97	2.26	2.26	131.62	-25.08	216.00	4.28
6.00	8	SLE R	5	447.50	2.26	2.26	-399.94	656.31	-76.21	12.99
6.00	14	SLE Q	5	447.50	2.26	2.26	-402.86	661.09	-76.76	13.09
6.30	10	SLE R	6	30.00	2.26	2.26	-530.21	870.08	-101.03	17.23
6.30	14	SLE Q	6	30.00	2.26	2.26	-514.70	844.62	-98.07	16.72
10.60	10	SLE R	7	-10.00	2.26	2.26	-403.42	662.01	-76.87	13.11
10.60	14	SLE Q	7	-10.00	2.26	2.26	-390.80	641.30	-74.46	12.70

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	1.52	14	SLE Q	5	8	0.00	-424.77	35.00	222.00	0.50	12.00	212.01	2.26	267.68	697.05	0.20	0.07
17	1.52	12	SLE F	5	8	0.00	-426.47	35.00	222.00	0.50	12.00	212.01	2.26	267.68	699.84	0.20	0.07
42	4.98	14	SLE Q	5	8	345.97	131.62	35.00	222.00	0.50	12.00	212.01	2.26	267.68	216.00	0.06	0.02
46	4.98	12	SLE F	5	8	345.97	132.06	35.00	222.00	0.50	12.00	212.01	2.26	267.68	216.72	0.06	0.02
63	6.00	14	SLE Q	5	8	447.50	-402.86	35.00	222.00	0.50	12.00	212.01	2.26	267.68	661.09	0.19	0.07
64	6.00	11	SLE F	5	8	447.50	-402.94	35.00	222.00	0.50	12.00	212.01	2.26	267.68	661.23	0.19	0.07
81	6.30	14	SLE Q	6	8	30.00	-514.70	35.00	222.00	0.50	12.00	212.01	2.26	267.68	844.62	0.25	0.09
83	6.30	12	SLE F	6	8	30.00	-516.61	35.00	222.00	0.50	12.00	212.01	2.26	267.68	847.76	0.25	0.09
102	10.60	14	SLE Q	7	8	-10.00	-390.80	35.00	222.00	0.50	12.00	212.01	2.26	267.68	641.30	0.19	0.07

104	10.60	12	SLE F	7	8	-10.00	-392.62	35.00	222.00	0.50	12.00	212.01	2.26	267.68	644.30	0.19	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 SLV	1.52	1.86	0.34	ø8/20 2 br.	5.03	0.30	946.74	2.50	12722.00	15562.70	12722.00	13.438
1 SLV	1.86	5.67	3.80	ø8/20 2 br.	5.03	0.30	862.57	2.50	12722.00	15562.70	12722.00	14.749
1 SLV	5.67	6.00	0.34	ø8/20 2 br.	5.03	0.30	936.95	2.50	12722.00	15562.70	12722.00	13.578
1 SLV	6.30	6.63	0.34	ø8/20 2 br.	5.03	0.30	1005.41	2.50	12722.00	15562.70	12722.00	12.653
1 SLV	6.63	10.27	3.63	ø8/20 2 br.	5.03	0.30	921.24	2.50	12722.00	15562.70	12722.00	13.810
1 SLV	10.27	10.60	0.34	ø8/20 2 br.	5.03	0.30	774.60	2.50	12722.00	15562.70	12722.00	16.424

Travata n. 105

Nodi: 148 -806 -807 -808 -809 -810 -811 -812 128 -813 -814 -815 -816 129 130 -817 -818 -819 -820 -821 -822 -823 131

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>
13	L	30.00	45.00	16.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
1.52	1	SLV	5	160.00	3.08	3.08	3.08	3.08	-3934.43	-7024.22	1.785
3.12	1	SLV	5	0.00	3.08	3.08	3.08	3.08	-4132.37	-7024.22	1.700
4.60	1	SLV	9	15.00	3.08	3.08	3.08	3.08	-5266.53	-7024.22	1.334
6.70	1	SLV	10	32.50	3.08	3.08	3.08	3.08	-4776.56	-7024.22	1.471
7.03	1	SLV	10	0.00	3.08	3.08	3.08	3.08	-4776.56	-7024.22	1.471
8.53	1	SLV	14	422.50	3.08	3.08	3.08	3.08	-4960.80	-7024.22	1.416
9.15	1	SLV	14	359.81	3.08	3.08	3.08	3.08	-4763.62	-7024.22	1.475
12.60	1	SLV	14	15.00	3.08	3.08	3.08	3.08	-4367.84	-7024.22	1.608
14.07	1	SLV	18	125.00	3.08	3.08	3.08	3.08	-4255.06	-7024.22	1.651
15.01	1	SLV	18	31.25	3.08	3.08	3.08	3.08	-5946.11	-7024.22	1.181
15.32	1	SLV	18	0.00	3.08	3.08	3.08	3.08	-5946.11	-7024.22	1.181

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>
1.52	8	SLE R	5	160.00	3.08	3.08	356.45	-36.41	239.53	4.01
1.52	14	SLE Q	5	160.00	3.08	3.08	328.52	-33.56	220.77	3.69
3.12	10	SLE R	5	0.00	3.08	3.08	-422.65	281.20	-31.12	3.86
3.12	14	SLE Q	5	0.00	3.08	3.08	-389.99	259.47	-28.72	3.56
4.60	10	SLE R	9	15.00	3.08	3.08	-1069.15	711.34	-78.73	9.77
4.60	14	SLE Q	9	15.00	3.08	3.08	-991.30	659.54	-73.00	9.06
6.70	10	SLE R	10	32.50	3.08	3.08	814.95	-83.26	547.64	9.16
6.70	14	SLE Q	10	32.50	3.08	3.08	738.67	-75.46	496.38	8.30
7.03	10	SLE R	10	0.00	3.08	3.08	513.44	-52.45	345.03	5.77
7.03	8	SLE R	10	0.00	3.08	3.08	-588.93	391.83	-43.37	5.38
7.03	14	SLE Q	10	0.00	3.08	3.08	464.72	-47.48	312.29	5.22
8.53	10	SLE R	14	422.50	3.08	3.08	-1908.49	1269.77	-140.54	17.43
8.53	14	SLE Q	14	422.50	3.08	3.08	-1705.53	1134.74	-125.59	15.58
9.15	10	SLE R	14	359.81	3.08	3.08	-1760.72	1171.46	-129.65	16.08
9.15	14	SLE Q	14	359.81	3.08	3.08	-1572.45	1046.20	-115.79	14.36
12.60	10	SLE R	14	15.00	3.08	3.08	-1721.09	1145.09	-126.74	15.72
12.60	14	SLE Q	14	15.00	3.08	3.08	-1553.46	1033.56	-114.39	14.19
14.07	10	SLE R	18	125.00	3.08	3.08	-412.39	274.38	-30.37	3.77
14.07	14	SLE Q	18	125.00	3.08	3.08	-385.10	256.22	-28.36	3.52
15.01	10	SLE R	18	31.25	3.08	3.08	-925.56	615.80	-68.16	8.45
15.01	14	SLE Q	18	31.25	3.08	3.08	-831.73	553.37	-61.25	7.60
15.32	10	SLE R	18	0.00	3.08	3.08	-925.56	615.80	-68.16	8.45
15.32	14	SLE Q	18	0.00	3.08	3.08	-831.73	553.37	-61.25	7.60

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/cmq>	ε_{sm}	Wk <mm>
24	1.52	14	SLE Q	5	13	160.00	328.52	34.00	370.00	0.50	14.00	341.94	3.08	461.25	220.77	0.06	0.04
26	1.52	11	SLE F	5	13	160.00	336.61	34.00	370.00	0.50	14.00	341.94	3.08	461.25	226.20	0.07	0.04
54	3.12	14	SLE Q	5	13	0.00	-389.99	34.00	220.00	0.50	14.00	353.53	3.08	307.50	259.47	0.08	0.05
56	3.12	11	SLE F	5	13	0.00	-396.45	34.00	220.00	0.50	14.00	353.53	3.08	307.50	263.77	0.08	0.05
75	4.60	14	SLE Q	9	13	15.00	-991.30	34.00	220.00	0.50	14.00	353.53	3.08	307.50	659.54	0.19	0.12
76	4.60	11	SLE F	9	13	15.00	-1008.57	34.00	220.00	0.50	14.00	353.53	3.08	307.50	671.03	0.20	0.12
102	6.70	14	SLE Q	10	13	32.50	738.67	34.00	370.00	0.50	14.00	341.94	3.08	461.25	496.38	0.14	0.08
104	6.70	11	SLE F	10	13	32.50	750.08	34.00	370.00	0.50	14.00	341.94	3.08	461.25	504.05	0.15	0.09
133	7.03	14	SLE Q	10	13	0.00	-533.49	34.00	220.00	0.50	14.00	353.53	3.08	307.50	354.95	0.10	0.06
135	7.03	11	SLE F	10	13	0.00	-548.42	34.00	220.00	0.50	14.00	353.53	3.08	307.50	364.88	0.11	0.06
156	8.53	14	SLE Q	14	13	422.50	-1705.53	34.00	220.00	0.50	14.00	353.53	3.08	307.50	1134.74	0.33	0.20
157	8.53	11	SLE F	14	13	422.50	-1724.63	34.00	220.00	0.50	14.00	353.53	3.08	307.50	1147.45	0.33	0.20
184	9.15	14	SLE Q	14	13	359.81	-1572.45	34.00	220.00	0.50	14.00	353.53	3.08	307.50	1046.20	0.30	0.18
186	9.15	11	SLE F	14	13	359.81	-1590.12	34.00	220.00	0.50	14.00	353.53	3.08	307.50	1057.95	0.31	0.19
209	12.60	14	SLE Q	14	13	15.00	-1553.46	34.00	220.00	0.50	14.00	353.53	3.08	307.50	1033.56	0.30	0.18
210	12.60	11	SLE F	14	13	15.00	-1560.42	34.00	220.00	0.50	14.00	353.53	3.08	307.50	1038.19	0.30	0.18
227	14.07	14	SLE Q	18	13	125.00	-385.10	34.00	220.00	0.50	14.00	353.53	3.08	307.50	256.22	0.07	0.04
228	14.07	11	SLE F	18	13	125.00	-390.55	34.00	220.00	0.50	14.00	353.53	3.08	307.50	259.84	0.08	0.05
246	15.01	14	SLE Q	18	13	31.25	-831.73	34.00	220.00	0.50	14.00	353.53	3.08	307.50	553.37	0.16	0.10

248	15.01	12	SLE F	18	13	31.25	-842.51	34.00	220.00	0.50	14.00	353.53	3.08	307.50	560.55	0.16	0.10
265	15.32	14	SLE Q	18	13	0.00	-831.73	34.00	220.00	0.50	14.00	353.53	3.08	307.50	553.37	0.16	0.10
267	15.32	12	SLE F	18	13	0.00	-842.51	34.00	220.00	0.50	14.00	353.53	3.08	307.50	560.55	0.16	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 SLV	1.52	3.12	1.60	ø8/20 2 br.	5.03	0.30	6338.33	2.50	22458.20	27473.00	22458.20	3.543
1 SLV	4.60	5.16	0.56	ø8/20 2 br.	5.03	0.30	6965.17	2.50	22458.20	27473.00	22458.20	3.224
1 SLV	5.16	6.46	1.30	ø8/20 2 br.	5.03	0.30	4889.60	2.50	22458.20	27473.00	22458.20	4.593
1 SLV	6.46	7.03	0.56	ø8/20 2 br.	5.03	0.30	5708.71	2.50	22458.20	27473.00	22458.20	3.934
7 SLU	8.53	9.09	0.56	ø8/20 2 br.	5.03	0.30	4618.90	2.50	22458.20	27473.00	22458.20	4.862
1 SLV	9.09	12.04	2.95	ø8/20 2 br.	5.03	0.30	3764.94	2.50	22458.20	27473.00	22458.20	5.965
1 SLV	12.04	12.60	0.56	ø8/20 2 br.	5.03	0.30	4538.70	2.50	22458.20	27473.00	22458.20	4.948
1 SLV	14.07	15.32	1.25	ø8/20 2 br.	5.03	0.30	8486.50	2.50	22458.20	27473.00	22458.20	2.646

Travata n. 106

Nodi: 135 136

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>
11	R	30.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.30	1	SLV	1	30.00	2.26	3.39	2.26	3.39	-678.48	-3546.42	5.227
3.00	7	SLU	1	300.00	2.26	3.39	2.26	3.39	-1163.34	-3546.42	3.048

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>
0.30	8	SLE R	1	30.00	2.26	3.39	-43.60	58.09	-6.56	0.99
0.30	14	SLE Q	1	30.00	2.26	3.39	-49.60	66.10	-7.46	1.13
3.00	10	SLE R	1	300.00	2.26	3.39	-874.30	1165.04	-131.57	19.92
3.00	14	SLE Q	1	300.00	2.26	3.39	-740.73	987.05	-111.47	16.87

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>
15	0.30	14	SLE Q	1	11	30.00	-49.60	35.00	222.00	0.50	12.00	245.05	2.26	307.50	66.10	0.02	0.01
18	0.30	13	SLE F	1	11	30.00	-49.60	35.00	222.00	0.50	12.00	245.05	2.26	307.50	66.10	0.02	0.01
33	3.00	14	SLE Q	1	11	300.00	-740.73	35.00	222.00	0.50	12.00	245.05	2.26	307.50	987.05	0.29	0.12
35	3.00	12	SLE F	1	11	300.00	-752.23	35.00	222.00	0.50	12.00	245.05	2.26	307.50	1002.38	0.29	0.12

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SLV	0.30	0.70	0.40	ø8/20 2 br.	5.03	0.30	526.84	2.50	15534.70	19003.50	15534.70	29.487
1 SLV	0.70	2.60	1.90	ø8/20 2 br.	5.03	0.30	918.78	2.50	15534.70	19003.50	15534.70	16.908
1 SLV	2.60	3.00	0.40	ø8/20 2 br.	5.03	0.30	1038.78	2.50	15534.70	19003.50	15534.70	14.955

Travata n. 107

Nodi: 137 138 139 140 141 142 143

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>
12	R	30.00	28.50	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.15	7	SLU	1	15.00	8.64	4.62	8.64	4.62	-5857.28	-8100.47	1.383
0.30	7	SLU	1	30.00	8.64	4.62	8.64	4.62	-5664.87	-8100.47	1.430
2.06	7	SLU	1	206.25	4.62	4.62	4.62	4.62	2868.06	4537.60	1.582
4.12	7	SLU	1	412.50	4.62	4.62	4.62	4.62	-3494.70	-4537.60	1.298
4.33	7	SLU	2	10.00	4.62	4.62	4.62	4.62	-2109.36	-4537.60	2.151
6.20	7	SLU	2	197.50	9.24	9.24	9.24	9.24	-1669.14	-8660.45	5.189
6.50	7	SLU	3	15.00	9.24	9.24	9.24	9.24	-3788.29	-8660.45	2.286
8.40	7	SLU	3	205.41	4.62	4.62	4.62	4.62	2840.80	4537.60	1.597
10.32	7	SLU	3	397.50	4.62	4.62	4.62	4.62	-3490.37	-4537.60	1.300
10.53	7	SLU	4	10.00	4.62	4.62	4.62	4.62	-2103.79	-4537.60	2.157
12.40	7	SLU	4	197.50	9.24	9.24	9.24	9.24	-1623.73	-8660.45	5.334
12.70	7	SLU	5	15.00	9.24	9.24	9.24	9.24	-3767.42	-8660.45	2.299
14.59	7	SLU	5	203.94	4.62	4.62	4.62	4.62	2795.51	4537.60	1.623
16.52	7	SLU	5	397.50	4.62	4.62	4.62	4.62	-3592.45	-4537.60	1.263
16.73	7	SLU	6	10.00	4.62	4.62	4.62	4.62	-2478.20	-4537.60	1.831
18.01	3	SLV	6	138.82	4.62	4.62	4.62	4.62	480.95	4537.60	9.435
18.75	3	SLV	6	212.50	4.62	4.62	4.62	4.62	-803.30	-4537.60	5.649

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>

0.15	10	SLE R	1	15.00	8.64	4.62	-4392.59	2429.86	-975.32	110.87
0.15	14	SLE Q	1	15.00	8.64	4.62	-3658.15	2023.58	-812.25	92.33
0.30	10	SLE R	1	30.00	8.64	4.62	-4248.31	2350.05	-943.29	107.23
0.30	14	SLE Q	1	30.00	8.64	4.62	-3538.03	1957.14	-785.58	89.30
2.06	10	SLE R	1	206.25	4.62	4.62	2150.64	-475.00	2167.57	67.25
2.06	14	SLE Q	1	206.25	4.62	4.62	1789.46	-395.23	1803.55	55.95
4.12	10	SLE R	1	412.50	4.62	4.62	-2620.62	2641.26	-578.81	81.94
4.12	14	SLE Q	1	412.50	4.62	4.62	-2181.16	2198.33	-481.74	68.20
4.33	10	SLE R	2	10.00	4.62	4.62	-1581.47	1593.92	-349.29	49.45
4.33	14	SLE Q	2	10.00	4.62	4.62	-1314.29	1324.64	-290.28	41.10
6.20	10	SLE R	2	197.50	9.24	9.24	-1251.59	647.89	-230.86	27.22
6.20	14	SLE Q	2	197.50	9.24	9.24	-1041.06	538.91	-192.03	22.64
6.50	10	SLE R	3	15.00	9.24	9.24	-2841.11	1470.72	-524.05	61.80
6.50	14	SLE Q	3	15.00	9.24	9.24	-2366.83	1225.21	-436.56	51.48
8.40	10	SLE R	3	205.41	4.62	4.62	2130.23	-470.49	2147.00	66.61
8.40	14	SLE Q	3	205.41	4.62	4.62	1772.60	-391.51	1786.56	55.43
10.32	10	SLE R	3	397.50	4.62	4.62	-2617.27	2637.88	-578.07	81.84
10.32	14	SLE Q	3	397.50	4.62	4.62	-2177.86	2195.01	-481.01	68.10
10.53	10	SLE R	4	10.00	4.62	4.62	-1577.15	1589.57	-348.34	49.32
10.53	14	SLE Q	4	10.00	4.62	4.62	-1309.69	1320.01	-289.27	40.95
12.40	10	SLE R	4	197.50	9.24	9.24	-1217.77	630.39	-224.62	26.49
12.40	14	SLE Q	4	197.50	9.24	9.24	-1014.28	525.05	-187.09	22.06
12.70	10	SLE R	5	15.00	9.24	9.24	-2825.44	1462.61	-521.16	61.45
12.70	14	SLE Q	5	15.00	9.24	9.24	-2353.76	1218.44	-434.15	51.20
14.59	10	SLE R	5	203.94	4.62	4.62	2096.27	-463.00	2112.78	65.55
14.59	14	SLE Q	5	203.94	4.62	4.62	1744.39	-385.28	1758.13	54.55
16.52	10	SLE R	5	397.50	4.62	4.62	-2693.81	2715.01	-594.97	84.23
16.52	14	SLE Q	5	397.50	4.62	4.62	-2241.48	2259.13	-495.07	70.09
16.73	10	SLE R	6	10.00	4.62	4.62	-1857.66	1872.29	-410.29	58.09
16.73	14	SLE Q	6	10.00	4.62	4.62	-1543.03	1555.17	-340.80	48.25
18.01	10	SLE R	6	138.82	4.62	4.62	290.08	-64.07	292.37	9.07
18.01	14	SLE Q	6	138.82	4.62	4.62	240.43	-53.10	242.32	7.52
18.75	10	SLE R	6	212.50	4.62	4.62	-425.92	429.27	-94.07	13.32
18.75	14	SLE Q	6	212.50	4.62	4.62	-357.89	360.71	-79.05	11.19

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	0.15	14	SLE Q	1	12	15.00	-3658.15	33.60	55.00	0.50	14.86	99.18	8.64	185.86	2023.59	0.86	0.15
17	0.15	12	SLE F	1	12	15.00	-3719.87	33.60	55.00	0.50	14.86	99.18	8.64	185.86	2057.73	0.82	0.14
33	0.30	14	SLE Q	1	12	30.00	-3538.03	33.60	55.00	0.50	14.86	99.18	8.64	185.86	1957.14	0.83	0.14
35	0.30	12	SLE F	1	12	30.00	-3597.72	33.60	55.00	0.50	14.86	99.18	8.64	185.86	1990.16	0.79	0.13
51	2.06	14	SLE Q	1	12	206.25	1789.46	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1803.55	0.66	0.15
53	2.06	12	SLE F	1	12	206.25	1819.90	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1834.22	0.57	0.13
69	4.12	14	SLE Q	1	12	412.50	-2181.16	34.00	110.00	0.50	14.00	130.91	4.62	207.51	2198.33	0.85	0.19
71	4.12	12	SLE F	1	12	412.50	-2218.25	34.00	110.00	0.50	14.00	130.91	4.62	207.51	2235.71	0.76	0.17
87	4.33	14	SLE Q	2	12	10.00	-1314.29	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1324.64	0.43	0.10
89	4.33	12	SLE F	2	12	10.00	-1336.78	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1347.30	0.39	0.09
105	6.20	14	SLE Q	2	12	197.50	-1041.06	34.00	44.00	0.50	14.00	96.90	9.24	190.67	538.91	0.16	0.03
107	6.20	12	SLE F	2	12	197.50	-1058.83	34.00	44.00	0.50	14.00	96.90	9.24	190.67	548.11	0.16	0.03
123	6.50	14	SLE Q	3	12	15.00	-2366.83	34.00	44.00	0.50	14.00	96.90	9.24	190.67	1225.21	0.48	0.08
125	6.50	12	SLE F	3	12	15.00	-2406.75	34.00	44.00	0.50	14.00	96.90	9.24	190.67	1245.87	0.43	0.07
141	8.40	14	SLE Q	3	12	205.41	1772.60	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1786.56	0.65	0.14
143	8.40	12	SLE F	3	12	205.41	1802.72	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1816.92	0.56	0.12
159	10.32	14	SLE Q	3	12	397.50	-2177.86	34.00	110.00	0.50	14.00	130.91	4.62	207.51	2195.01	0.85	0.19
161	10.32	12	SLE F	3	12	397.50	-2214.88	34.00	110.00	0.50	14.00	130.91	4.62	207.51	2232.31	0.76	0.17
177	10.53	14	SLE Q	4	12	10.00	-1309.69	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1320.01	0.42	0.09
179	10.53	12	SLE F	4	12	10.00	-1332.19	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1342.68	0.39	0.09
195	12.40	14	SLE Q	4	12	197.50	-1014.28	34.00	44.00	0.50	14.00	96.90	9.24	190.67	525.05	0.15	0.03
197	12.40	12	SLE F	4	12	197.50	-1031.47	34.00	44.00	0.50	14.00	96.90	9.24	190.67	533.95	0.16	0.03
213	12.70	14	SLE Q	5	12	15.00	-2353.76	34.00	44.00	0.50	14.00	96.90	9.24	190.67	1218.44	0.48	0.08
215	12.70	12	SLE F	5	12	15.00	-2393.46	34.00	44.00	0.50	14.00	96.90	9.24	190.67	1238.99	0.43	0.07
231	14.59	14	SLE Q	5	12	203.94	1744.39	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1758.13	0.64	0.14
233	14.59	12	SLE F	5	12	203.94	1774.04	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1788.00	0.54	0.12
249	16.52	14	SLE Q	5	12	397.50	-2241.48	34.00	110.00	0.50	14.00	130.91	4.62	207.51	2259.13	0.88	0.20
251	16.52	12	SLE F	5	12	397.50	-2279.58	34.00	110.00	0.50	14.00	130.91	4.62	207.51	2297.52	0.79	0.18
267	16.73	14	SLE Q	6	12	10.00	-1543.03	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1555.17	0.54	0.12
269	16.73	12	SLE F	6	12	10.00	-1569.42	34.00	110.00	0.50	14.00	130.91	4.62	207.51	1581.78	0.46	0.10
289	18.01	14	SLE Q	6	12	138.82	240.43	34.00	110.00	0.50	14.00	130.91	4.62	207.51	242.32	0.07	0.02
291	18.01	12	SLE F	6	12	138.82	244.48	34.00	110.00	0.50	14.00	130.91	4.62	207.51	246.40	0.07	0.02
309	18.75	14	SLE Q	6	12	212.50	-357.89	34.00	110.00	0.50	14.00	130.91	4.62	207.51	360.71	0.11	0.02
311	18.75	12	SLE F	6	12	212.50	-363.87	34.00	110.00	0.50	14.00	130.91	4.62	207.51	366.74	0.11	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	0.30	0.58	0.28	ø8/20 2 br.	5.03	0.30	6568.11	2.50	10558.40	12916.00	10558.40	1.608
7 SLU	0.58	3.84	3.25	ø8/20 2 br.	5.03	0.30	5598.64	2.50	10558.40	12916.00	10558.40	1.886
7 SLU	3.84	4.12	0.28	ø8/20 2 br.	5.03	0.30	6443.11	2.50	10558.40	12916.00	10558.40	1.639
7 SLU	4.33	4.61	0.28	ø8/20 2 br.	5.03	0.30	3423.81	2.50	10558.40	12916.00	10558.40	3.084
7 SLU	4.61	5.92	1.30	ø8/20 2 br.	5.03	0.30	2454.34	2.50	10558.40	12916.00	10558.40	4.302
7 SLU	5.92	6.20	0.28	ø8/20 2 br.	5.03	0.30	2954.24	2.50	10558.40	12916.00	10558.40	3.574
7 SLU	6.50	6.79	0.28	ø8/20 2 br.	5.03	0.30	6583.50	2.50	10558.40	12916.00	10558.40	1.604
7 SLU	6.79	10.04	3.25	ø8/20 2 br.	5.03	0.30	5614.03	2.50	10558.40	12916.00	10558.40	1.881

7	SLU	10.04	10.32	0.28	ø8/20 2 br.	5.03	0.30	6427.73	2.50	10558.40	12916.00	10558.40	1.643
7	SLU	10.53	10.81	0.28	ø8/20 2 br.	5.03	0.30	3445.06	2.50	10558.40	12916.00	10558.40	3.065
7	SLU	10.81	12.12	1.30	ø8/20 2 br.	5.03	0.30	2475.58	2.50	10558.40	12916.00	10558.40	4.265
7	SLU	12.12	12.40	0.28	ø8/20 2 br.	5.03	0.30	2933.00	2.50	10558.40	12916.00	10558.40	3.600
7	SLU	12.70	12.98	0.28	ø8/20 2 br.	5.03	0.30	6551.36	2.50	10558.40	12916.00	10558.40	1.612
7	SLU	12.98	16.24	3.25	ø8/20 2 br.	5.03	0.30	5581.88	2.50	10558.40	12916.00	10558.40	1.892
7	SLU	16.24	16.52	0.28	ø8/20 2 br.	5.03	0.30	6459.87	2.50	10558.40	12916.00	10558.40	1.634
7	SLU	16.73	17.01	0.28	ø8/20 2 br.	5.03	0.30	4388.12	2.50	10558.40	12916.00	10558.40	2.406
7	SLU	17.01	18.46	1.45	ø8/20 2 br.	5.03	0.30	3418.64	2.50	10558.40	12916.00	10558.40	3.088
7	SLU	18.46	18.75	0.28	ø8/20 2 br.	5.03	0.30	2500.18	2.50	10558.40	12916.00	10558.40	4.223

Travata n. 108

Nodi: 144 -831 -832 -833 -834 145

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>
8	R	30.00	33.50	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
1.52	1	SLV	5	0.00	2.26	2.26	2.26	2.26	-804.64	-2891.38	3.593
4.08	1	SLV	5	255.71	2.26	2.26	2.26	2.26	460.02	2891.38	6.285
6.00	1	SLV	5	447.50	2.26	2.26	2.26	2.26	-626.27	-2891.38	4.617

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>
1.52	10	SLE R	5	0.00	2.26	2.26	-492.93	808.91	-93.92	16.02
1.52	14	SLE Q	5	0.00	2.26	2.26	-477.91	784.26	-91.06	15.53
4.08	9	SLE R	5	255.71	2.26	2.26	295.91	-56.38	485.59	9.61
4.08	14	SLE Q	5	255.71	2.26	2.26	295.70	-56.34	485.25	9.61
6.00	8	SLE R	5	447.50	2.26	2.26	-249.15	408.86	-47.47	8.10
6.00	14	SLE Q	5	447.50	2.26	2.26	-252.41	414.21	-48.09	8.20

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	1.52	14	SLE Q	5	8	0.00	-477.91	35.00	222.00	0.50	12.00	212.01	2.26	267.68	784.26	0.23	0.08
17	1.52	12	SLE F	5	8	0.00	-479.27	35.00	222.00	0.50	12.00	212.01	2.26	267.68	786.49	0.23	0.08
33	4.08	14	SLE Q	5	8	255.71	295.70	35.00	222.00	0.50	12.00	212.01	2.26	267.68	485.25	0.14	0.05
35	4.08	12	SLE F	5	8	255.71	295.74	35.00	222.00	0.50	12.00	212.01	2.26	267.68	485.31	0.14	0.05
52	6.00	14	SLE Q	5	8	447.50	-252.41	35.00	222.00	0.50	12.00	212.01	2.26	267.68	414.21	0.12	0.04
55	6.00	13	SLE F	5	8	447.50	-252.41	35.00	222.00	0.50	12.00	212.01	2.26	267.68	414.21	0.12	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.
7 SLU	1.52	1.86	0.34	ø8/20 2 br.	5.03	0.30	805.64	2.50	12722.00	15562.70	12722.00	15.791
7 SLU	1.86	5.67	3.80	ø8/20 2 br.	5.03	0.30	696.22	2.50	12722.00	15562.70	12722.00	18.273
5 SLU	5.67	6.00	0.34	ø8/20 2 br.	5.03	0.30	662.98	2.50	12722.00	15562.70	12722.00	19.189

Travata n. 110

Nodi: -641 -642 -643 -644 -645 -646 -647

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>
11	R	30.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.30	1	SLV	1	30.00	4.62	4.62	4.62	4.62	-809.34	-6874.39	8.494
1.57	1	SLV	1	157.50	4.62	4.62	4.62	4.62	311.12	6874.39	22.095
4.12	1	SLV	1	412.50	4.62	4.62	4.62	4.62	-575.50	-6874.39	11.945
4.33	1	SLV	2	10.00	4.62	4.62	4.62	4.62	314.48	6874.39	21.860
5.58	1	SLV	2	135.00	4.62	4.62	4.62	4.62	-393.43	-6874.39	17.473
6.20	1	SLV	2	197.50	4.62	4.62	4.62	4.62	-546.14	-6874.39	12.587
6.50	1	SLV	3	15.00	4.62	4.62	4.62	4.62	-720.31	-6874.39	9.544
7.78	1	SLV	3	142.50	4.62	4.62	4.62	4.62	240.18	6874.39	28.622
10.32	1	SLV	3	397.50	4.62	4.62	4.62	4.62	-536.65	-6874.39	12.810
10.53	1	SLV	4	10.00	4.62	4.62	4.62	4.62	447.68	6874.39	15.356
12.40	1	SLV	4	197.50	4.62	4.62	4.62	4.62	-684.77	-6874.39	10.039
12.70	1	SLV	5	15.00	4.62	4.62	4.62	4.62	-856.52	-6874.39	8.026
15.20	3	SLV	5	264.58	4.62	4.62	4.62	4.62	402.02	6874.39	17.100
16.52	3	SLV	5	397.50	4.62	4.62	4.62	4.62	-600.19	-6874.39	11.454
16.73	3	SLV	6	10.00	4.62	4.62	4.62	4.62	874.94	6874.39	7.857
18.75	3	SLV	6	212.50	4.62	4.62	4.62	4.62	-1325.36	-6874.39	5.187

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>

0.30	10	SLE R	1	30.00	4.62	4.62	-425.91	284.03	-61.19	7.05
0.30	14	SLE Q	1	30.00	4.62	4.62	-417.38	278.34	-59.96	6.91
1.57	8	SLE R	1	157.50	4.62	4.62	182.00	-26.15	121.37	3.01
1.57	14	SLE Q	1	157.50	4.62	4.62	184.13	-26.45	122.79	3.05
4.12	10	SLE R	1	412.50	4.62	4.62	-327.01	218.08	-46.98	5.41
4.12	14	SLE Q	1	412.50	4.62	4.62	-316.44	211.02	-45.46	5.24
4.33	10	SLE R	2	10.00	4.62	4.62	205.28	-29.49	136.89	3.40
4.33	14	SLE Q	2	10.00	4.62	4.62	151.12	-21.71	100.78	2.50
5.58	10	SLE R	2	135.00	4.62	4.62	176.99	-25.43	118.03	2.93
5.58	14	SLE Q	2	135.00	4.62	4.62	136.30	-19.58	90.90	2.26
6.20	8	SLE R	2	197.50	4.62	4.62	-132.68	88.48	-19.06	2.20
6.20	14	SLE Q	2	197.50	4.62	4.62	-134.47	89.67	-19.32	2.22
6.50	10	SLE R	3	15.00	4.62	4.62	-459.38	306.35	-66.00	7.60
6.50	14	SLE Q	3	15.00	4.62	4.62	-438.83	292.65	-63.04	7.26
7.78	8	SLE R	3	142.50	4.62	4.62	156.77	-22.52	104.54	2.59
7.78	14	SLE Q	3	142.50	4.62	4.62	160.68	-23.08	107.15	2.66
10.32	10	SLE R	3	397.50	4.62	4.62	-349.87	233.32	-50.26	5.79
10.32	14	SLE Q	3	397.50	4.62	4.62	-337.57	225.12	-48.50	5.58
10.53	10	SLE R	4	10.00	4.62	4.62	186.15	-26.74	124.14	3.08
10.53	14	SLE Q	4	10.00	4.62	4.62	135.10	-19.41	90.09	2.24
12.40	8	SLE R	4	197.50	4.62	4.62	-139.99	93.35	-20.11	2.32
12.40	14	SLE Q	4	197.50	4.62	4.62	-141.94	94.66	-20.39	2.35
12.70	10	SLE R	5	15.00	4.62	4.62	-542.22	361.59	-77.90	8.97
12.70	14	SLE Q	5	15.00	4.62	4.62	-505.71	337.25	-72.65	8.37
15.20	8	SLE R	5	264.58	4.62	4.62	223.12	-32.05	148.79	3.69
15.20	14	SLE Q	5	264.58	4.62	4.62	224.22	-32.21	149.53	3.71
16.52	8	SLE R	5	397.50	4.62	4.62	-200.63	133.79	-28.82	3.32
16.52	14	SLE Q	5	397.50	4.62	4.62	-204.57	136.42	-29.39	3.38
16.73	10	SLE R	6	10.00	4.62	4.62	258.83	-37.18	172.60	4.28
16.73	14	SLE Q	6	10.00	4.62	4.62	176.63	-25.38	117.79	2.92
18.75	10	SLE R	6	212.50	4.62	4.62	-398.21	265.56	-57.21	6.59
18.75	14	SLE Q	6	212.50	4.62	4.62	-336.51	224.41	-48.34	5.57

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
18	0.30	14	SLE Q	1	11	30.00	-417.38	34.00	110.00	0.50	14.00	159.75	4.62	302.64	278.34	0.08	0.02
20	0.30	12	SLE F	1	11	30.00	-417.95	34.00	110.00	0.50	14.00	159.75	4.62	302.64	278.72	0.08	0.02
46	1.57	14	SLE Q	1	11	157.50	184.13	34.00	110.00	0.50	14.00	159.75	4.62	302.64	122.79	0.04	0.01
52	1.57	13	SLE F	1	11	157.50	184.13	34.00	110.00	0.50	14.00	159.75	4.62	302.64	122.79	0.04	0.01
71	4.12	14	SLE Q	1	11	412.50	-316.44	34.00	110.00	0.50	14.00	159.75	4.62	302.64	211.02	0.06	0.02
73	4.12	12	SLE F	1	11	412.50	-317.43	34.00	110.00	0.50	14.00	159.75	4.62	302.64	211.68	0.06	0.02
92	4.33	14	SLE Q	2	11	10.00	151.12	34.00	110.00	0.50	14.00	159.75	4.62	302.64	100.78	0.03	0.01
94	4.33	12	SLE F	2	11	10.00	155.68	34.00	110.00	0.50	14.00	159.75	4.62	302.64	103.82	0.03	0.01
121	5.58	14	SLE Q	2	11	135.00	136.30	34.00	110.00	0.50	14.00	159.75	4.62	302.64	90.90	0.03	0.01
125	5.58	12	SLE F	2	11	135.00	139.70	34.00	110.00	0.50	14.00	159.75	4.62	302.64	93.16	0.03	0.01
149	6.20	14	SLE Q	2	11	197.50	-134.47	34.00	110.00	0.50	14.00	159.75	4.62	302.64	89.67	0.03	0.01
155	6.20	13	SLE F	2	11	197.50	-134.47	34.00	110.00	0.50	14.00	159.75	4.62	302.64	89.67	0.03	0.01
172	6.50	14	SLE Q	3	11	15.00	-438.83	34.00	110.00	0.50	14.00	159.75	4.62	302.64	292.65	0.09	0.02
174	6.50	12	SLE F	3	11	15.00	-440.52	34.00	110.00	0.50	14.00	159.75	4.62	302.64	293.77	0.09	0.02
200	7.78	14	SLE Q	3	11	142.50	160.68	34.00	110.00	0.50	14.00	159.75	4.62	302.64	107.15	0.03	0.01
206	7.78	13	SLE F	3	11	142.50	160.68	34.00	110.00	0.50	14.00	159.75	4.62	302.64	107.15	0.03	0.01
223	10.32	14	SLE Q	3	11	397.50	-337.57	34.00	110.00	0.50	14.00	159.75	4.62	302.64	225.12	0.07	0.02
225	10.32	12	SLE F	3	11	397.50	-338.64	34.00	110.00	0.50	14.00	159.75	4.62	302.64	225.83	0.07	0.02
243	10.53	14	SLE Q	4	11	10.00	135.10	34.00	110.00	0.50	14.00	159.75	4.62	302.64	90.09	0.03	0.01
245	10.53	12	SLE F	4	11	10.00	139.43	34.00	110.00	0.50	14.00	159.75	4.62	302.64	92.98	0.03	0.01
267	12.40	14	SLE Q	4	11	197.50	-141.94	34.00	110.00	0.50	14.00	159.75	4.62	302.64	94.66	0.03	0.01
270	12.40	13	SLE F	4	11	197.50	-141.94	34.00	110.00	0.50	14.00	159.75	4.62	302.64	94.66	0.03	0.01
286	12.70	14	SLE Q	5	11	15.00	-505.71	34.00	110.00	0.50	14.00	159.75	4.62	302.64	337.25	0.10	0.03
288	12.70	12	SLE F	5	11	15.00	-508.73	34.00	110.00	0.50	14.00	159.75	4.62	302.64	339.26	0.10	0.03
307	15.20	14	SLE Q	5	11	264.58	224.22	34.00	110.00	0.50	14.00	159.75	4.62	302.64	149.53	0.04	0.01
310	15.20	13	SLE F	5	11	264.58	224.22	34.00	110.00	0.50	14.00	159.75	4.62	302.64	149.53	0.04	0.01
326	16.52	14	SLE Q	5	11	397.50	-204.57	34.00	110.00	0.50	14.00	159.75	4.62	302.64	136.42	0.04	0.01
327	16.52	11	SLE F	5	11	397.50	-204.65	34.00	110.00	0.50	14.00	159.75	4.62	302.64	136.47	0.04	0.01
345	16.73	14	SLE Q	6	11	10.00	176.63	34.00	110.00	0.50	14.00	159.75	4.62	302.64	117.79	0.03	0.01
347	16.73	12	SLE F	6	11	10.00	182.94	34.00	110.00	0.50	14.00	159.75	4.62	302.64	122.00	0.04	0.01
363	18.75	14	SLE Q	6	11	212.50	-336.51	34.00	110.00	0.50	14.00	159.75	4.62	302.64	224.41	0.07	0.02
365	18.75	12	SLE F	6	11	212.50	-341.87	34.00	110.00	0.50	14.00	159.75	4.62	302.64	227.98	0.07	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.
5 SLU	0.30	0.70	0.40	ø8/20 2 br.	5.03	0.30	779.87	2.50	15534.70	19003.50	15534.70	19.919
1 SLV	0.70	3.72	3.02	ø8/20 2 br.	5.03	0.30	650.29	2.50	15534.70	19003.50	15534.70	23.889
1 SLV	3.72	4.12	0.40	ø8/20 2 br.	5.03	0.30	717.52	2.50	15534.70	19003.50	15534.70	21.651
1 SLV	4.33	4.72	0.40	ø8/20 2 br.	5.03	0.30	475.79	2.50	15534.70	19003.50	15534.70	32.650
1 SLV	4.72	5.80	1.07	ø8/20 2 br.	5.03	0.30	604.21	2.50	15534.70	19003.50	15534.70	25.711
1 SLV	5.80	6.20	0.40	ø8/20 2 br.	5.03	0.30	724.21	2.50	15534.70	19003.50	15534.70	21.451
7 SLU	6.50	6.90	0.40	ø8/20 2 br.	5.03	0.30	783.53	2.50	15534.70	19003.50	15534.70	19.826
7 SLU	6.90	9.93	3.02	ø8/20 2 br.	5.03	0.30	627.53	2.50	15534.70	19003.50	15534.70	24.755
5 SLU	9.93	10.32	0.40	ø8/20 2 br.	5.03	0.30	710.84	2.50	15534.70	19003.50	15534.70	21.854
1 SLV	10.53	10.93	0.40	ø8/20 2 br.	5.03	0.30	624.61	2.50	15534.70	19003.50	15534.70	24.871
1 SLV	10.93	12.00	1.07	ø8/20 2 br.	5.03	0.30	743.39	2.50	15534.70	19003.50	15534.70	20.897
1 SLV	12.00	12.40	0.40	ø8/20 2 br.	5.03	0.30	863.39	2.50	15534.70	19003.50	15534.70	17.993

7 SLU	12.70	13.10	0.40	ø8/20 2 br.	5.03	0.30	870.63	2.50	15534.70	19003.50	15534.70	17.843
7 SLU	13.10	16.12	3.02	ø8/20 2 br.	5.03	0.30	714.63	2.50	15534.70	19003.50	15534.70	21.738
3 SLV	16.12	16.52	0.40	ø8/20 2 br.	5.03	0.30	671.53	2.50	15534.70	19003.50	15534.70	23.133
3 SLV	16.73	17.12	0.40	ø8/20 2 br.	5.03	0.30	863.15	2.50	15534.70	19003.50	15534.70	17.998
3 SLV	17.12	18.35	1.22	ø8/20 2 br.	5.03	0.30	1227.90	2.50	15534.70	19003.50	15534.70	12.651
3 SLV	18.35	18.75	0.40	ø8/20 2 br.	5.03	0.30	1347.90	2.50	15534.70	19003.50	15534.70	11.525

Travata n. 111

Nodi: 147 136 137

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>
9	R	30.00	56.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	3	SLV	1	0.00	2.26	2.26	2.26	2.26	-1950.02	-5130.69	2.631
2.11	7	SLU	1	211.50	2.26	2.26	2.26	2.26	1992.26	5130.69	2.575
5.15	3	SLV	1	515.00	3.80	2.26	3.80	2.26	-2091.69	-8400.14	4.016
5.45	3	SLV	2	30.00	3.80	2.26	3.80	2.26	3156.56	5140.86	1.629
5.88	3	SLV	2	72.50	3.80	2.26	3.80	2.26	3156.56	5140.86	1.629
6.00	3	SLV	2	85.00	3.80	2.26	3.80	2.26	3156.56	5140.86	1.629

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	10	SLE R	1	0.00	2.26	2.26	-1134.75	1030.04	-123.51	14.83
0.00	14	SLE Q	1	0.00	2.26	2.26	-1032.44	937.17	-112.37	13.49
2.11	10	SLE R	1	211.50	2.26	2.26	1511.75	-164.54	1372.25	19.76
2.11	14	SLE Q	1	211.50	2.26	2.26	1376.89	-149.86	1249.83	17.99
5.15	10	SLE R	1	515.00	3.80	2.26	-1493.40	818.63	-153.72	15.81
5.15	14	SLE Q	1	515.00	3.80	2.26	-1342.56	735.94	-138.20	14.21
5.45	10	SLE R	2	30.00	3.80	2.26	2051.29	-207.38	1861.27	25.65
5.45	14	SLE Q	2	30.00	3.80	2.26	1822.55	-184.26	1653.72	22.79
5.88	10	SLE R	2	72.50	3.80	2.26	2051.29	-207.38	1861.27	25.65
5.88	14	SLE Q	2	72.50	3.80	2.26	1822.55	-184.26	1653.72	22.79
6.00	10	SLE R	2	85.00	3.80	2.26	2051.29	-207.38	1861.27	25.65
6.00	14	SLE Q	2	85.00	3.80	2.26	1822.55	-184.26	1653.72	22.79

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
18	0.00	14	SLE Q	1	9	0.00	-1032.44	35.00	222.00	0.50	12.00	350.87	2.26	307.50	937.17	0.27	0.16
20	0.00	12	SLE F	1	9	0.00	-1033.69	35.00	222.00	0.50	12.00	350.87	2.26	307.50	938.30	0.27	0.16
36	2.11	14	SLE Q	1	9	211.50	1376.89	35.00	222.00	0.50	12.00	350.87	2.26	307.50	1249.83	0.36	0.22
37	2.11	11	SLE F	1	9	211.50	1376.90	35.00	222.00	0.50	12.00	350.87	2.26	307.50	1249.84	0.36	0.22
57	5.15	14	SLE Q	1	9	515.00	-1342.56	34.67	111.00	0.50	12.74	172.37	3.80	307.50	735.94	0.21	0.06
58	5.15	11	SLE F	1	9	515.00	-1342.88	34.67	111.00	0.50	12.74	172.37	3.80	307.50	736.12	0.21	0.06
78	5.45	14	SLE Q	2	9	30.00	1822.55	35.00	222.00	0.50	12.00	353.31	2.26	307.50	1653.72	0.48	0.29
80	5.45	12	SLE F	2	9	30.00	1859.66	35.00	222.00	0.50	12.00	353.31	2.26	307.50	1687.39	0.49	0.30
99	5.88	14	SLE Q	2	9	72.50	1822.55	35.00	222.00	0.50	12.00	353.31	2.26	307.50	1653.72	0.48	0.29
101	5.88	12	SLE F	2	9	72.50	1859.66	35.00	222.00	0.50	12.00	353.31	2.26	307.50	1687.39	0.49	0.30
117	6.00	14	SLE Q	2	9	85.00	1822.55	35.00	222.00	0.50	12.00	353.31	2.26	307.50	1653.72	0.48	0.29
119	6.00	12	SLE F	2	9	85.00	1859.66	35.00	222.00	0.50	12.00	353.31	2.26	307.50	1687.39	0.49	0.30

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.
7 SLU	0.00	0.56	0.56	ø8/20 2 br.	5.03	0.30	2657.53	2.50	22458.20	27473.00	22458.20	8.451
7 SLU	0.56	4.59	4.03	ø8/20 2 br.	5.03	0.30	2244.58	2.50	22458.20	27473.00	22458.20	10.005
7 SLU	4.59	5.15	0.56	ø8/20 2 br.	5.03	0.30	2842.66	2.50	22458.20	27473.00	22458.20	7.900
3 SLV	5.45	6.00	0.55	ø8/20 2 br.	5.03	0.30	6025.57	2.50	22458.20	27473.00	22458.20	3.727

Travata n. 112

Nodi: 101 114 -774 -775 -776 -777 -783 123 -793 -797 148

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>
15	R	30.00		50.00		4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09
14	L	20.00	30.00	34.00	16.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	3	SLV	1	492.50	2.26	2.26	2.26	2.26	1099.76	4533.55	4.122
0.95	3	SLV	1	397.00	2.26	2.26	2.26	2.26	1230.43	4533.55	3.685
4.78	3	SLV	1	15.00	2.26	2.26	2.26	2.26	-1321.77	-4533.55	3.430
5.08	3	SLV	2	23.12	4.62	3.08	4.62	3.08	2452.89	5936.78	2.420
6.45	3	SLV	5	0.00	4.62	3.08	4.62	3.08	2218.56	5936.78	2.676
8.45	3	SLV	10	315.00	3.08	3.08	3.08	3.08	-2012.44	-6056.86	3.010
8.77	3	SLV	10	283.33	3.08	3.08	3.08	3.08	-2012.44	-6056.86	3.010
11.30	3	SLV	10	30.00	3.08	3.08	3.08	3.08	-1647.45	-6056.86	3.676

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	8	SLE R	1	492.50	2.26	2.26	343.21	-42.80	353.84	5.45
0.00	14	SLE Q	1	492.50	2.26	2.26	342.49	-42.71	353.10	5.44
0.95	8	SLE R	1	397.00	2.26	2.26	714.24	-89.07	736.37	11.34
0.95	14	SLE Q	1	397.00	2.26	2.26	712.94	-88.91	735.03	11.32
4.78	8	SLE R	1	15.00	2.26	2.26	-821.78	847.25	-102.49	13.04
4.78	14	SLE Q	1	15.00	2.26	2.26	-824.80	850.36	-102.86	13.09
5.08	9	SLE R	2	23.12	4.62	3.08	-51.76	26.69	-5.86	0.60
5.08	14	SLE Q	2	23.12	4.62	3.08	-59.88	30.88	-6.78	0.70
6.45	10	SLE R	5	0.00	4.62	3.08	-507.91	261.91	-57.50	5.92
6.45	14	SLE Q	5	0.00	4.62	3.08	-469.94	242.33	-53.20	5.48
8.45	10	SLE R	10	315.00	3.08	3.08	-538.00	410.86	-63.62	7.34
8.45	14	SLE Q	10	315.00	3.08	3.08	-468.00	357.40	-55.34	6.39
8.77	10	SLE R	10	283.33	3.08	3.08	562.91	-89.88	434.56	9.42
8.77	14	SLE Q	10	283.33	3.08	3.08	507.81	-81.08	392.02	8.50
11.30	10	SLE R	10	30.00	3.08	3.08	-559.47	427.26	-66.16	7.64
11.30	14	SLE Q	10	30.00	3.08	3.08	-505.13	385.76	-59.73	6.90

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
24	0.00	14	SLE Q	1	15	492.50	342.49	35.00	222.00	0.50	12.00	310.42	2.26	307.50	353.10	0.10	0.05
26	0.00	11	SLE F	1	15	492.50	342.92	35.00	222.00	0.50	12.00	310.42	2.26	307.50	353.55	0.10	0.05
48	0.95	14	SLE Q	1	15	397.00	712.94	35.00	222.00	0.50	12.00	310.42	2.26	307.50	735.03	0.21	0.11
49	0.95	11	SLE F	1	15	397.00	713.32	35.00	222.00	0.50	12.00	310.42	2.26	307.50	735.42	0.21	0.11
68	4.78	14	SLE Q	1	15	15.00	-824.80	35.00	222.00	0.50	12.00	310.42	2.26	307.50	850.36	0.25	0.13
71	4.78	13	SLE F	1	15	15.00	-824.80	35.00	222.00	0.50	12.00	310.42	2.26	307.50	850.36	0.25	0.13
90	5.08	14	SLE Q	2	14	23.12	-59.88	34.00	60.00	0.50	14.00	130.15	4.62	205.00	30.88	0.01	0.00
93	5.08	13	SLE F	2	14	23.12	-59.88	34.00	60.00	0.50	14.00	130.15	4.62	205.00	30.88	0.01	0.00
108	6.45	14	SLE Q	5	14	0.00	-469.94	34.00	60.00	0.50	14.00	130.15	4.62	205.00	242.33	0.07	0.02
109	6.45	11	SLE F	5	14	0.00	-476.29	34.00	60.00	0.50	14.00	130.15	4.62	205.00	245.60	0.07	0.02
134	8.45	14	SLE Q	10	14	315.00	-468.00	34.00	120.00	0.50	14.00	161.22	3.08	205.00	357.40	0.10	0.03
136	8.45	11	SLE F	10	14	315.00	-470.01	34.00	120.00	0.50	14.00	161.22	3.08	205.00	358.94	0.10	0.03
166	8.77	14	SLE Q	10	14	283.33	507.81	34.00	220.00	0.50	14.00	290.52	3.08	307.50	392.02	0.11	0.06
168	8.77	11	SLE F	10	14	283.33	517.48	34.00	220.00	0.50	14.00	290.52	3.08	307.50	399.48	0.12	0.06
196	11.30	14	SLE Q	10	14	30.00	-505.13	34.00	120.00	0.50	14.00	161.22	3.08	205.00	385.76	0.11	0.03
198	11.30	11	SLE F	10	14	30.00	-513.30	34.00	120.00	0.50	14.00	161.22	3.08	205.00	392.00	0.11	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.
3 SLV	0.00	0.50	0.50	ø8/20 2 br.	5.03	0.30	991.23	2.50	19861.90	24296.90	19861.90	20.038
3 SLV	0.50	4.27	3.77	ø8/20 2 br.	5.03	0.30	1143.67	2.50	19861.90	24296.90	19861.90	17.367
5 SLU	4.27	4.78	0.50	ø8/20 2 br.	5.03	0.30	1384.09	2.50	19861.90	24296.90	19861.90	14.350
3 SLV	5.08	6.45	1.38	ø8/20 2 br.	5.03	0.20	3959.24	2.22	17609.00	17609.00	17609.00	4.448
3 SLV	8.45	8.95	0.50	ø8/20 2 br.	5.03	0.20	2524.12	2.22	17609.00	17609.00	17609.00	6.976
3 SLV	8.95	10.80	1.85	ø8/20 2 br.	5.03	0.20	1990.42	2.22	17609.00	17609.00	17609.00	8.847
3 SLV	10.80	11.30	0.50	ø8/20 2 br.	5.03	0.20	2550.18	2.22	17609.00	17609.00	17609.00	6.905

Travata n. 113

Nodi: -605 -615 -633 -634 -648

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>
11	R	30.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	5	SLU	1	390.00	3.08	3.08	3.08	3.08	294.21	4702.19	15.982
1.58	5	SLU	1	231.67	3.08	3.08	3.08	3.08	774.35	4702.19	6.072
3.80	5	SLU	1	10.00	3.08	3.08	3.08	3.08	294.21	4702.19	15.982
4.00	5	SLU	2	207.50	3.08	3.08	3.08	3.08	131.78	4702.19	35.683
4.64	5	SLU	2	143.33	3.08	3.08	3.08	3.08	198.71	4702.19	23.663
5.92	5	SLU	2	15.00	3.08	3.08	3.08	3.08	131.78	4702.19	35.683
6.22	5	SLU	3	202.50	3.08	3.08	3.08	3.08	131.78	4702.19	35.683
6.87	5	SLU	3	138.33	3.08	3.08	3.08	3.08	198.71	4702.19	23.663
8.15	5	SLU	3	10.00	3.08	3.08	3.08	3.08	131.78	4702.19	35.683
8.35	5	SLU	4	380.00	3.08	3.08	3.08	3.08	294.21	4702.19	15.982
9.93	5	SLU	4	221.67	3.08	3.08	3.08	3.08	774.35	4702.19	6.072
12.15	5	SLU	4	0.00	3.08	3.08	3.08	3.08	294.21	4702.19	15.982

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	8	SLE R	1	390.00	3.08	3.08	226.32	-35.31	223.54	4.58
0.00	14	SLE Q	1	390.00	3.08	3.08	226.32	-35.31	223.54	4.58
1.58	8	SLE R	1	231.67	3.08	3.08	595.65	-92.93	588.34	12.05
1.58	14	SLE Q	1	231.67	3.08	3.08	595.65	-92.93	588.34	12.05
3.80	8	SLE R	1	10.00	3.08	3.08	226.32	-35.31	223.54	4.58
3.80	14	SLE Q	1	10.00	3.08	3.08	226.32	-35.31	223.54	4.58

4.00	8	SLE R	2	207.50	3.08	3.08	101.37	-15.81	100.12	2.05
4.00	14	SLE Q	2	207.50	3.08	3.08	101.37	-15.81	100.12	2.05
4.64	8	SLE R	2	143.33	3.08	3.08	152.86	-23.85	150.98	3.09
4.64	14	SLE Q	2	143.33	3.08	3.08	152.86	-23.85	150.98	3.09
5.92	8	SLE R	2	15.00	3.08	3.08	101.37	-15.81	100.12	2.05
5.92	14	SLE Q	2	15.00	3.08	3.08	101.37	-15.81	100.12	2.05
6.22	8	SLE R	3	202.50	3.08	3.08	101.37	-15.81	100.12	2.05
6.22	14	SLE Q	3	202.50	3.08	3.08	101.37	-15.81	100.12	2.05
6.87	8	SLE R	3	138.33	3.08	3.08	152.86	-23.85	150.98	3.09
6.87	14	SLE Q	3	138.33	3.08	3.08	152.86	-23.85	150.98	3.09
8.15	8	SLE R	3	10.00	3.08	3.08	101.37	-15.81	100.12	2.05
8.15	14	SLE Q	3	10.00	3.08	3.08	101.37	-15.81	100.12	2.05
8.35	8	SLE R	4	380.00	3.08	3.08	226.32	-35.31	223.54	4.58
8.35	14	SLE Q	4	380.00	3.08	3.08	226.32	-35.31	223.54	4.58
9.93	8	SLE R	4	221.67	3.08	3.08	595.65	-92.93	588.34	12.05
9.93	14	SLE Q	4	221.67	3.08	3.08	595.65	-92.93	588.34	12.05
12.15	8	SLE R	4	0.00	3.08	3.08	226.32	-35.31	223.54	4.58
12.15	14	SLE Q	4	0.00	3.08	3.08	226.32	-35.31	223.54	4.58

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>
15	0.00	14	SLE Q	1	11	390.00	226.32	34.00	220.00	0.50	14.00	236.72	3.08	307.50	223.54	0.07	0.03
16	0.00	11	SLE F	1	11	390.00	226.32	34.00	220.00	0.50	14.00	236.72	3.08	307.50	223.54	0.07	0.03
33	1.58	14	SLE Q	1	11	231.67	595.65	34.00	220.00	0.50	14.00	236.72	3.08	307.50	588.34	0.17	0.07
34	1.58	11	SLE F	1	11	231.67	595.65	34.00	220.00	0.50	14.00	236.72	3.08	307.50	588.34	0.17	0.07
65	3.80	14	SLE Q	1	11	10.00	226.32	34.00	220.00	0.50	14.00	236.72	3.08	307.50	223.54	0.07	0.03
67	3.80	11	SLE F	1	11	10.00	226.32	34.00	220.00	0.50	14.00	236.72	3.08	307.50	223.54	0.07	0.03
102	4.00	14	SLE Q	2	11	207.50	101.37	34.00	220.00	0.50	14.00	236.72	3.08	307.50	100.12	0.03	0.01
104	4.00	11	SLE F	2	11	207.50	101.37	34.00	220.00	0.50	14.00	236.72	3.08	307.50	100.12	0.03	0.01
123	4.64	14	SLE Q	2	11	143.33	152.86	34.00	220.00	0.50	14.00	236.72	3.08	307.50	150.98	0.04	0.02
124	4.64	11	SLE F	2	11	143.33	152.86	34.00	220.00	0.50	14.00	236.72	3.08	307.50	150.98	0.04	0.02
155	5.92	14	SLE Q	2	11	15.00	101.37	34.00	220.00	0.50	14.00	236.72	3.08	307.50	100.12	0.03	0.01
157	5.92	11	SLE F	2	11	15.00	101.37	34.00	220.00	0.50	14.00	236.72	3.08	307.50	100.12	0.03	0.01
192	6.22	14	SLE Q	3	11	202.50	101.37	34.00	220.00	0.50	14.00	236.72	3.08	307.50	100.12	0.03	0.01
194	6.22	11	SLE F	3	11	202.50	101.37	34.00	220.00	0.50	14.00	236.72	3.08	307.50	100.12	0.03	0.01
213	6.87	14	SLE Q	3	11	138.33	152.86	34.00	220.00	0.50	14.00	236.72	3.08	307.50	150.98	0.04	0.02
214	6.87	11	SLE F	3	11	138.33	152.86	34.00	220.00	0.50	14.00	236.72	3.08	307.50	150.98	0.04	0.02
245	8.15	14	SLE Q	3	11	10.00	101.37	34.00	220.00	0.50	14.00	236.72	3.08	307.50	100.12	0.03	0.01
247	8.15	11	SLE F	3	11	10.00	101.37	34.00	220.00	0.50	14.00	236.72	3.08	307.50	100.12	0.03	0.01
267	8.35	14	SLE Q	4	11	380.00	226.32	34.00	220.00	0.50	14.00	236.72	3.08	307.50	223.54	0.07	0.03
268	8.35	11	SLE F	4	11	380.00	226.32	34.00	220.00	0.50	14.00	236.72	3.08	307.50	223.54	0.07	0.03
285	9.93	14	SLE Q	4	11	221.67	595.65	34.00	220.00	0.50	14.00	236.72	3.08	307.50	588.34	0.17	0.07
286	9.93	11	SLE F	4	11	221.67	595.65	34.00	220.00	0.50	14.00	236.72	3.08	307.50	588.34	0.17	0.07
317	12.15	14	SLE Q	4	11	0.00	226.32	34.00	220.00	0.50	14.00	236.72	3.08	307.50	223.54	0.07	0.03
319	12.15	11	SLE F	4	11	0.00	226.32	34.00	220.00	0.50	14.00	236.72	3.08	307.50	223.54	0.07	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.
5 SLU	0.00	0.40	0.40	ø8/20 2 br.	5.03	0.30	741.00	2.50	15534.70	19003.50	15534.70	20.965
5 SLU	0.40	3.40	3.00	ø8/20 2 br.	5.03	0.30	585.00	2.50	15534.70	19003.50	15534.70	26.555
5 SLU	3.40	3.80	0.40	ø8/20 2 br.	5.03	0.30	741.00	2.50	15534.70	19003.50	15534.70	20.965
5 SLU	4.00	4.40	0.40	ø8/20 2 br.	5.03	0.30	375.38	2.50	15534.70	19003.50	15534.70	41.384
5 SLU	4.40	5.53	1.12	ø8/20 2 br.	5.03	0.30	219.37	2.50	15534.70	19003.50	15534.70	70.814
5 SLU	5.53	5.92	0.40	ø8/20 2 br.	5.03	0.30	375.38	2.50	15534.70	19003.50	15534.70	41.384
5 SLU	6.22	6.62	0.40	ø8/20 2 br.	5.03	0.30	375.38	2.50	15534.70	19003.50	15534.70	41.384
5 SLU	6.62	7.75	1.12	ø8/20 2 br.	5.03	0.30	219.37	2.50	15534.70	19003.50	15534.70	70.814
5 SLU	7.75	8.15	0.40	ø8/20 2 br.	5.03	0.30	375.38	2.50	15534.70	19003.50	15534.70	41.384
5 SLU	8.35	8.75	0.40	ø8/20 2 br.	5.03	0.30	741.00	2.50	15534.70	19003.50	15534.70	20.965
5 SLU	8.75	11.75	3.00	ø8/20 2 br.	5.03	0.30	585.00	2.50	15534.70	19003.50	15534.70	26.555
5 SLU	11.75	12.15	0.40	ø8/20 2 br.	5.03	0.30	741.00	2.50	15534.70	19003.50	15534.70	20.965

Travata n. 114

Nodi: 119 120 124 125 131 -1052 -1063 -1064 -1065 143

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>
11	R	30.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09
9	R	30.00	56.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.15	3	SLV	1	152.50	6.03	6.03	6.03	6.03	2230.99	8857.62	3.970
1.57	3	SLV	1	10.00	6.03	6.03	6.03	6.03	-754.88	-8857.62	11.734
1.77	1	SLV	2	145.00	6.03	6.03	6.03	6.03	-463.44	-8857.62	19.113
2.70	3	SLV	2	52.20	6.03	6.03	6.03	6.03	-1141.91	-8857.62	7.757
3.08	3	SLV	2	15.00	6.03	6.03	6.03	6.03	-1141.91	-8857.62	7.757
3.38	3	SLV	3	140.00	6.03	6.03	6.03	6.03	-1270.26	-8857.62	6.973
4.67	3	SLV	3	10.00	6.03	6.03	6.03	6.03	-691.07	-8857.62	12.817
4.88	1	SLV	4	180.00	6.03	6.03	6.03	6.03	-512.94	-8857.62	17.268
5.91	3	SLV	4	76.09	6.03	6.03	6.03	6.03	748.32	8857.62	11.837

6.38	3	SLV	4	30.00	6.03	6.03	6.03	6.03	748.32	8857.62	11.837
6.67	3	SLV	5	400.00	2.26	8.29	2.26	8.29	-4019.33	-5151.30	1.282
10.37	3	SLV	5	30.77	2.26	2.26	2.26	2.26	-4144.61	-5130.69	1.238
10.68	3	SLV	5	0.00	2.26	2.26	2.26	2.26	-4144.61	-5130.69	1.238

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>
0.15	8	SLE R	1	152.50	6.03	6.03	272.71	-36.28	140.36	3.94
0.15	14	SLE Q	1	152.50	6.03	6.03	244.15	-32.48	125.65	3.52
1.57	8	SLE R	1	10.00	6.03	6.03	226.19	-30.09	116.41	3.27
1.57	14	SLE Q	1	10.00	6.03	6.03	201.86	-26.85	103.89	2.91
1.77	8	SLE R	2	145.00	6.03	6.03	-226.68	116.67	-30.15	3.27
1.77	14	SLE Q	2	145.00	6.03	6.03	-198.53	102.18	-26.41	2.87
2.70	8	SLE R	2	52.20	6.03	6.03	-184.26	94.83	-24.51	2.66
2.70	14	SLE Q	2	52.20	6.03	6.03	-155.13	79.84	-20.64	2.24
3.08	8	SLE R	2	15.00	6.03	6.03	-184.26	94.83	-24.51	2.66
3.08	14	SLE Q	2	15.00	6.03	6.03	-155.13	79.84	-20.64	2.24
3.38	8	SLE R	3	140.00	6.03	6.03	-287.31	147.87	-38.22	4.15
3.38	14	SLE Q	3	140.00	6.03	6.03	-252.40	129.90	-33.58	3.64
4.67	8	SLE R	3	10.00	6.03	6.03	-207.78	106.94	-27.64	3.00
4.67	14	SLE Q	3	10.00	6.03	6.03	-177.25	91.23	-23.58	2.56
4.88	8	SLE R	4	180.00	6.03	6.03	217.79	-28.97	112.09	3.14
4.88	14	SLE Q	4	180.00	6.03	6.03	193.56	-25.75	99.62	2.79
5.91	8	SLE R	4	76.09	6.03	6.03	384.43	-51.14	197.85	5.55
5.91	14	SLE Q	4	76.09	6.03	6.03	339.71	-45.19	174.84	4.90
6.38	8	SLE R	4	30.00	6.03	6.03	325.57	-43.31	167.56	4.70
6.38	14	SLE Q	4	30.00	6.03	6.03	289.22	-38.47	148.85	4.17
6.67	8	SLE R	5	400.00	2.26	8.29	-914.11	829.36	-75.96	10.24
6.67	14	SLE Q	5	400.00	2.26	8.29	-881.41	799.69	-73.25	9.87
10.37	10	SLE R	5	30.77	2.26	2.26	-464.44	421.58	-50.55	6.07
10.37	14	SLE Q	5	30.77	2.26	2.26	-443.18	402.28	-48.24	5.79
10.68	10	SLE R	5	0.00	2.26	2.26	-464.44	421.58	-50.55	6.07
10.68	14	SLE Q	5	0.00	2.26	2.26	-443.18	402.28	-48.24	5.79

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
23	0.15	14	SLE Q	1	11	152.50	244.15	33.00	109.00	0.50	16.00	143.90	6.03	293.69	125.65	0.04	0.01
25	0.15	11	SLE F	1	11	152.50	252.28	33.00	109.00	0.50	16.00	143.90	6.03	293.69	129.84	0.04	0.01
54	1.57	14	SLE Q	1	11	10.00	201.86	33.00	109.00	0.50	16.00	143.90	6.03	293.69	103.89	0.03	0.01
56	1.57	11	SLE F	1	11	10.00	207.94	33.00	109.00	0.50	16.00	143.90	6.03	293.69	107.02	0.03	0.01
84	1.77	14	SLE Q	2	11	145.00	-198.53	33.00	109.00	0.50	16.00	143.90	6.03	293.69	102.18	0.03	0.01
86	1.77	11	SLE F	2	11	145.00	-205.77	33.00	109.00	0.50	16.00	143.90	6.03	293.69	105.90	0.03	0.01
114	2.70	14	SLE Q	2	11	52.20	-155.13	33.00	109.00	0.50	16.00	143.90	6.03	293.69	79.84	0.02	0.01
116	2.70	11	SLE F	2	11	52.20	-162.89	33.00	109.00	0.50	16.00	143.90	6.03	293.69	83.83	0.02	0.01
142	3.08	14	SLE Q	2	11	15.00	-155.13	33.00	109.00	0.50	16.00	143.90	6.03	293.69	79.84	0.02	0.01
144	3.08	11	SLE F	2	11	15.00	-162.89	33.00	109.00	0.50	16.00	143.90	6.03	293.69	83.83	0.02	0.01
170	3.38	14	SLE Q	3	11	140.00	-252.40	33.00	109.00	0.50	16.00	143.90	6.03	293.69	129.90	0.04	0.01
172	3.38	11	SLE F	3	11	140.00	-260.84	33.00	109.00	0.50	16.00	143.90	6.03	293.69	134.24	0.04	0.01
201	4.67	14	SLE Q	3	11	10.00	-177.25	33.00	109.00	0.50	16.00	143.90	6.03	293.69	91.23	0.03	0.01
203	4.67	11	SLE F	3	11	10.00	-185.35	33.00	109.00	0.50	16.00	143.90	6.03	293.69	95.39	0.03	0.01
234	4.88	14	SLE Q	4	11	180.00	193.56	33.00	109.00	0.50	16.00	143.90	6.03	293.69	99.62	0.03	0.01
236	4.88	11	SLE F	4	11	180.00	199.39	33.00	109.00	0.50	16.00	143.90	6.03	293.69	102.62	0.03	0.01
259	5.91	14	SLE Q	4	11	76.09	339.71	33.00	109.00	0.50	16.00	143.90	6.03	293.69	174.84	0.05	0.01
260	5.91	11	SLE F	4	11	76.09	350.83	33.00	109.00	0.50	16.00	143.90	6.03	293.69	180.56	0.05	0.01
281	6.38	14	SLE Q	4	11	30.00	289.22	33.00	109.00	0.50	16.00	143.90	6.03	293.69	148.85	0.04	0.01
282	6.38	11	SLE F	4	11	30.00	298.33	33.00	109.00	0.50	16.00	143.90	6.03	293.69	153.54	0.04	0.01
299	6.67	14	SLE Q	5	9	400.00	-881.41	35.00	222.00	0.50	12.00	359.17	2.26	307.50	799.69	0.23	0.14
300	6.67	11	SLE F	5	9	400.00	-890.73	35.00	222.00	0.50	12.00	359.17	2.26	307.50	808.14	0.24	0.14
324	10.37	14	SLE Q	5	9	30.77	-443.18	35.00	222.00	0.50	12.00	350.87	2.26	307.50	402.28	0.12	0.07
328	10.37	12	SLE F	5	9	30.77	-445.38	35.00	222.00	0.50	12.00	350.87	2.26	307.50	404.29	0.12	0.07
345	10.68	14	SLE Q	5	9	0.00	-443.18	35.00	222.00	0.50	12.00	350.87	2.26	307.50	402.28	0.12	0.07
347	10.68	12	SLE F	5	9	0.00	-445.38	35.00	222.00	0.50	12.00	350.87	2.26	307.50	404.29	0.12	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.
3 SLV	0.15	0.55	0.40	ø8/20 2 br.	5.03	0.30	2823.55	2.50	15534.70	19003.50	15534.70	5.502
3 SLV	0.55	1.18	0.62	ø8/20 2 br.	5.03	0.30	2388.91	2.50	15534.70	19003.50	15534.70	6.503
3 SLV	1.18	1.57	0.40	ø8/20 2 br.	5.03	0.30	2948.12	2.50	15534.70	19003.50	15534.70	5.269
3 SLV	1.77	2.17	0.40	ø8/20 2 br.	5.03	0.30	1841.84	2.50	15534.70	19003.50	15534.70	8.434
3 SLV	2.17	2.67	0.50	ø8/20 2 br.	5.03	0.30	1282.63	2.50	15534.70	19003.50	15534.70	12.112
3 SLV	2.67	3.08	0.40	ø8/20 2 br.	5.03	0.30	1775.07	2.50	15534.70	19003.50	15534.70	8.752
3 SLV	3.38	3.77	0.40	ø8/20 2 br.	5.03	0.30	2131.50	2.50	15534.70	19003.50	15534.70	7.288
3 SLV	3.77	4.28	0.50	ø8/20 2 br.	5.03	0.30	1572.29	2.50	15534.70	19003.50	15534.70	9.880
3 SLV	4.28	4.67	0.40	ø8/20 2 br.	5.03	0.30	2015.90	2.50	15534.70	19003.50	15534.70	7.706
5 SLU	4.88	5.28	0.40	ø8/20 2 br.	5.03	0.30	1837.79	2.50	15534.70	19003.50	15534.70	8.453
3 SLV	5.28	5.97	0.70	ø8/20 2 br.	5.03	0.30	1226.59	2.50	15534.70	19003.50	15534.70	12.665
3 SLV	5.97	6.38	0.40	ø8/20 2 br.	5.03	0.30	1534.57	2.50	15534.70	19003.50	15534.70	10.123
3 SLV	6.67	7.24	0.56	ø8/20 2 br.	5.03	0.30	2658.97	2.50	22458.20	27473.00	22458.20	8.446
3 SLV	7.24	10.12	2.88	ø8/20 2 br.	5.03	0.30	2423.77	2.50	22458.20	27473.00	22458.20	9.266
3 SLV	10.12	10.68	0.56	ø8/20 2 br.	5.03	0.30	2439.85	2.50	22458.20	27473.00	22458.20	9.205

Travata n. 115

Nodi: 110 117

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>
15	R	30.00	50.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.01	3	SLV	1	0.91	2.26	2.26	2.26	2.26	1560.35	4533.55	2.905
4.77	3	SLV	1	477.28	3.80	2.26	3.80	2.26	-2512.36	-7396.56	2.944

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>
0.01	8	SLE R	1	0.91	2.26	2.26	523.74	-65.32	539.97	8.31
0.01	14	SLE Q	1	0.91	2.26	2.26	493.71	-61.57	509.01	7.84
4.77	8	SLE R	1	477.28	3.80	2.26	-1319.02	821.76	-158.50	16.98
4.77	14	SLE Q	1	477.28	3.80	2.26	-1220.40	760.31	-146.65	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 <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
17	0.01	14	SLE Q	1	15	0.91	493.71	35.00	222.00	0.50	12.00	310.42	2.26	307.50	509.01	0.15	0.08
18	0.01	11	SLE F	1	15	0.91	502.48	35.00	222.00	0.50	12.00	310.42	2.26	307.50	518.04	0.15	0.08
35	4.77	14	SLE Q	1	15	477.28	-1220.40	34.67	111.00	0.50	12.74	172.37	3.80	307.50	760.31	0.22	0.06
36	4.77	11	SLE F	1	15	477.28	-1248.54	34.67	111.00	0.50	12.74	172.37	3.80	307.50	777.85	0.23	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.
3 SLV	0.01	0.51	0.50	ø8/20 2 br.	5.03	0.30	1146.51	2.50	19861.90	24296.90	19861.90	17.324
3 SLV	0.51	4.27	3.76	ø8/20 2 br.	5.03	0.30	1533.44	2.50	19861.90	24296.90	19861.90	12.953
3 SLV	4.27	4.77	0.50	ø8/20 2 br.	5.03	0.30	1721.59	2.50	19861.90	24296.90	19861.90	11.537

Travata n. 132

Nodi: 121 127 132 134 144

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>
10	R	30.00	42.50	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	3	SLV	1	390.00	2.26	2.26	2.26	2.26	-1467.28	-3787.06	2.581
0.95	3	SLV	1	295.00	2.26	2.26	2.26	2.26	1677.03	3787.06	2.258
3.80	7	SLU	1	10.00	4.52	2.26	4.52	2.26	-2002.35	-7241.64	3.617
4.00	7	SLU	2	207.50	4.52	2.26	4.52	2.26	-1890.17	-7241.64	3.831
5.60	3	SLV	2	47.08	4.52	4.52	4.52	4.52	1275.24	7239.61	5.677
5.92	3	SLV	2	15.00	4.52	4.52	4.52	4.52	1275.24	7239.61	5.677
6.22	3	SLV	3	202.50	4.52	4.52	4.52	4.52	1544.08	7239.61	4.689
8.15	7	SLU	3	10.00	4.52	2.26	4.52	2.26	-1894.78	-7241.64	3.822
8.35	7	SLU	4	380.00	4.52	2.26	4.52	2.26	-2115.50	-7241.64	3.423
10.63	3	SLV	4	151.62	2.26	2.26	2.26	2.26	1803.53	3787.06	2.100
12.15	3	SLV	4	0.00	2.26	2.26	2.26	2.26	1580.27	3787.06	2.396

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	9	SLE R	1	390.00	2.26	2.26	410.47	-61.61	509.48	8.66
0.00	14	SLE Q	1	390.00	2.26	2.26	341.74	-51.29	424.17	7.21
0.95	10	SLE R	1	295.00	2.26	2.26	1188.27	-178.35	1474.88	25.06
0.95	14	SLE Q	1	295.00	2.26	2.26	1035.94	-155.49	1285.81	21.85
3.80	10	SLE R	1	10.00	4.52	2.26	-1510.50	959.06	-222.26	24.23
3.80	14	SLE Q	1	10.00	4.52	2.26	-1315.17	835.04	-193.52	21.10
4.00	10	SLE R	2	207.50	4.52	2.26	-1425.56	905.13	-209.77	22.87
4.00	14	SLE Q	2	207.50	4.52	2.26	-1242.07	788.63	-182.77	19.93
5.60	9	SLE R	2	47.08	4.52	4.52	533.01	-71.04	337.70	7.99
5.60	14	SLE Q	2	47.08	4.52	4.52	472.87	-63.02	299.60	7.09
5.92	9	SLE R	2	15.00	4.52	4.52	533.01	-71.04	337.70	7.99
5.92	14	SLE Q	2	15.00	4.52	4.52	472.87	-63.02	299.60	7.09
6.22	9	SLE R	3	202.50	4.52	4.52	440.63	-58.73	279.17	6.61
6.22	14	SLE Q	3	202.50	4.52	4.52	392.29	-52.28	248.54	5.88
8.15	10	SLE R	3	10.00	4.52	2.26	-1429.32	907.52	-210.32	22.93
8.15	14	SLE Q	3	10.00	4.52	2.26	-1244.97	790.47	-183.19	19.97
8.35	10	SLE R	4	380.00	4.52	2.26	-1595.34	1012.93	-234.75	25.59
8.35	14	SLE Q	4	380.00	4.52	2.26	-1389.30	882.11	-204.43	22.29
10.63	10	SLE R	4	151.62	2.26	2.26	1347.48	-202.25	1672.49	28.42
10.63	14	SLE Q	4	151.62	2.26	2.26	1172.85	-176.04	1455.75	24.74
12.15	9	SLE R	4	0.00	2.26	2.26	637.75	-95.72	791.57	13.45
12.15	14	SLE Q	4	0.00	2.26	2.26	549.65	-82.50	682.23	11.59

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
24	0.00	14	SLE Q	1	10	390.00	341.74	35.00	222.00	0.50	12.00	260.25	2.26	307.50	424.17	0.12	0.05
28	0.00	12	SLE F	1	10	390.00	355.62	35.00	222.00	0.50	12.00	260.25	2.26	307.50	441.40	0.13	0.06
48	0.95	14	SLE Q	1	10	295.00	1035.94	35.00	222.00	0.50	12.00	260.25	2.26	307.50	1285.81	0.37	0.17
50	0.95	12	SLE F	1	10	295.00	1043.14	35.00	222.00	0.50	12.00	260.25	2.26	307.50	1294.75	0.38	0.17
66	3.80	14	SLE Q	1	10	10.00	-1315.17	35.00	74.00	0.50	12.00	151.57	4.52	307.50	835.04	0.24	0.06
68	3.80	12	SLE F	1	10	10.00	-1324.08	35.00	74.00	0.50	12.00	151.57	4.52	307.50	840.70	0.24	0.06
84	4.00	14	SLE Q	2	10	207.50	-1242.07	35.00	74.00	0.50	12.00	151.57	4.52	307.50	788.63	0.23	0.06
86	4.00	12	SLE F	2	10	207.50	-1251.37	35.00	74.00	0.50	12.00	151.57	4.52	307.50	794.53	0.23	0.06
102	5.60	14	SLE Q	2	10	47.08	472.87	35.00	74.00	0.50	12.00	151.57	4.52	307.50	299.60	0.09	0.02
104	5.60	12	SLE F	2	10	47.08	484.78	35.00	74.00	0.50	12.00	151.57	4.52	307.50	307.14	0.09	0.02
120	5.92	14	SLE Q	2	10	15.00	472.87	35.00	74.00	0.50	12.00	151.57	4.52	307.50	299.60	0.09	0.02
122	5.92	12	SLE F	2	10	15.00	484.78	35.00	74.00	0.50	12.00	151.57	4.52	307.50	307.14	0.09	0.02
138	6.22	14	SLE Q	3	10	202.50	392.29	35.00	74.00	0.50	12.00	151.57	4.52	307.50	248.54	0.07	0.02
140	6.22	12	SLE F	3	10	202.50	401.84	35.00	74.00	0.50	12.00	151.57	4.52	307.50	254.59	0.07	0.02
156	8.15	14	SLE Q	3	10	10.00	-1244.97	35.00	74.00	0.50	12.00	151.57	4.52	307.50	790.47	0.23	0.06
158	8.15	12	SLE F	3	10	10.00	-1254.26	35.00	74.00	0.50	12.00	151.57	4.52	307.50	796.37	0.23	0.06
174	8.35	14	SLE Q	4	10	380.00	-1389.30	35.00	74.00	0.50	12.00	151.57	4.52	307.50	882.11	0.26	0.07
176	8.35	12	SLE F	4	10	380.00	-1399.43	35.00	74.00	0.50	12.00	151.57	4.52	307.50	888.54	0.26	0.07
192	10.63	14	SLE Q	4	10	151.62	1172.85	35.00	222.00	0.50	12.00	260.25	2.26	307.50	1455.75	0.42	0.19
194	10.63	12	SLE F	4	10	151.62	1181.10	35.00	222.00	0.50	12.00	260.25	2.26	307.50	1465.98	0.43	0.19
214	12.15	14	SLE Q	4	10	0.00	549.65	35.00	222.00	0.50	12.00	260.25	2.26	307.50	682.23	0.20	0.09
218	12.15	12	SLE F	4	10	0.00	567.16	35.00	222.00	0.50	12.00	260.25	2.26	307.50	703.96	0.21	0.09

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.
7 SLU	0.00	0.42	0.42	ø8/20 2 br.	5.03	0.30	2358.49	2.50	16616.50	20326.80	16616.50	7.045
7 SLU	0.42	3.38	2.95	ø8/20 2 br.	5.03	0.30	2563.52	2.50	16616.50	20326.80	16616.50	6.482
7 SLU	3.38	3.80	0.42	ø8/20 2 br.	5.03	0.30	3183.34	2.50	16616.50	20326.80	16616.50	5.220
7 SLU	4.00	4.42	0.42	ø8/20 2 br.	5.03	0.30	2715.99	2.50	16616.50	20326.80	16616.50	6.118
7 SLU	4.42	5.50	1.07	ø8/20 2 br.	5.03	0.30	2096.17	2.50	16616.50	20326.80	16616.50	7.927
3 SLV	5.50	5.92	0.42	ø8/20 2 br.	5.03	0.30	875.59	2.50	16616.50	20326.80	16616.50	18.977
3 SLV	6.22	6.65	0.42	ø8/20 2 br.	5.03	0.30	1101.33	2.50	16616.50	20326.80	16616.50	15.088
3 SLV	6.65	7.72	1.07	ø8/20 2 br.	5.03	0.30	2121.23	2.50	16616.50	20326.80	16616.50	7.833
7 SLU	7.72	8.15	0.42	ø8/20 2 br.	5.03	0.30	2657.47	2.50	16616.50	20326.80	16616.50	6.253
7 SLU	8.35	8.78	0.42	ø8/20 2 br.	5.03	0.30	3302.83	2.50	16616.50	20326.80	16616.50	5.031
7 SLU	8.78	11.72	2.95	ø8/20 2 br.	5.03	0.30	2683.02	2.50	16616.50	20326.80	16616.50	6.193
7 SLU	11.72	12.15	0.42	ø8/20 2 br.	5.03	0.30	2238.99	2.50	16616.50	20326.80	16616.50	7.421

Travata n. 133

Nodi: 122 -792 -796 -800 -801 -802 126 133 135 -824 -825 145

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>
9	R	30.00	56.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
2.85	3	SLV	7	322.50	2.26	2.26	2.26	2.26	-4611.56	-5130.69	1.113
3.46	3	SLV	7	261.00	2.26	2.26	2.26	2.26	-4484.89	-5130.69	1.144
5.92	3	SLV	7	15.00	2.26	2.26	2.26	2.26	-1400.15	-5130.69	3.664
6.22	7	SLU	8	307.50	2.26	2.26	2.26	2.26	1139.42	5130.69	4.503
7.18	3	SLV	8	212.05	2.26	2.26	2.26	2.26	1763.89	5130.69	2.909
9.30	3	SLV	8	0.00	2.26	2.26	2.26	2.26	-4253.99	-5130.69	1.206
10.28	3	SLV	11	187.50	2.26	2.26	2.26	2.26	2778.15	5130.69	1.847
12.15	3	SLV	11	0.00	2.26	2.26	2.26	2.26	-1106.98	-5130.69	4.635

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>
2.85	10	SLE R	7	322.50	2.26	2.26	-2005.11	1820.08	-218.24	26.20
2.85	14	SLE Q	7	322.50	2.26	2.26	-1730.04	1570.39	-188.30	22.61
3.46	10	SLE R	7	261.00	2.26	2.26	-1904.87	1729.09	-207.33	24.89
3.46	14	SLE Q	7	261.00	2.26	2.26	-1644.14	1492.42	-178.95	21.49
5.92	10	SLE R	7	15.00	2.26	2.26	620.04	-67.49	562.82	8.10
5.92	14	SLE Q	7	15.00	2.26	2.26	541.61	-58.95	491.63	7.08
6.22	10	SLE R	8	307.50	2.26	2.26	859.54	-93.55	780.22	11.23
6.22	14	SLE Q	8	307.50	2.26	2.26	749.02	-81.52	679.90	9.79
7.18	10	SLE R	8	212.05	2.26	2.26	1017.54	-110.75	923.64	13.30
7.18	14	SLE Q	8	212.05	2.26	2.26	880.10	-95.79	798.88	11.50
9.30	10	SLE R	8	0.00	2.26	2.26	-2468.51	2240.71	-268.67	32.26
9.30	14	SLE Q	8	0.00	2.26	2.26	-2133.62	1936.73	-232.22	27.88
10.28	10	SLE R	11	187.50	2.26	2.26	383.89	-41.78	348.47	5.02
10.28	14	SLE Q	11	187.50	2.26	2.26	333.43	-36.29	302.66	4.36
12.15	10	SLE R	11	0.00	2.26	2.26	393.12	-42.79	356.84	5.14
12.15	14	SLE Q	11	0.00	2.26	2.26	346.23	-37.68	314.28	4.52

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>
16	2.85	14	SLE Q	7	9	322.50	-1730.04	35.00	222.00	0.50	12.00	350.87	2.26	307.50	1570.39	0.46	0.27
18	2.85	12	SLE F	7	9	322.50	-1744.11	35.00	222.00	0.50	12.00	350.87	2.26	307.50	1583.16	0.46	0.28
43	3.46	14	SLE Q	7	9	261.00	-1644.14	35.00	222.00	0.50	12.00	350.87	2.26	307.50	1492.42	0.43	0.26
47	3.46	12	SLE F	7	9	261.00	-1657.94	35.00	222.00	0.50	12.00	350.87	2.26	307.50	1504.94	0.44	0.26
76	5.92	14	SLE Q	7	9	15.00	541.61	35.00	222.00	0.50	12.00	350.87	2.26	307.50	491.63	0.14	0.09
80	5.92	12	SLE F	7	9	15.00	550.66	35.00	222.00	0.50	12.00	350.87	2.26	307.50	499.84	0.15	0.09
100	6.22	14	SLE Q	8	9	307.50	749.02	35.00	222.00	0.50	12.00	350.87	2.26	307.50	679.90	0.20	0.12
102	6.22	12	SLE F	8	9	307.50	762.96	35.00	222.00	0.50	12.00	350.87	2.26	307.50	692.56	0.20	0.12
120	7.18	14	SLE Q	8	9	212.05	880.10	35.00	222.00	0.50	12.00	350.87	2.26	307.50	798.88	0.23	0.14
122	7.18	12	SLE F	8	9	212.05	888.20	35.00	222.00	0.50	12.00	350.87	2.26	307.50	806.23	0.23	0.14
141	9.30	14	SLE Q	8	9	0.00	-2133.62	35.00	222.00	0.50	12.00	350.87	2.26	307.50	1936.73	0.56	0.34
143	9.30	12	SLE F	8	9	0.00	-2152.98	35.00	222.00	0.50	12.00	350.87	2.26	307.50	1954.30	0.57	0.34
167	10.28	14	SLE Q	11	9	187.50	333.43	35.00	222.00	0.50	12.00	350.87	2.26	307.50	302.66	0.09	0.05
171	10.28	12	SLE F	11	9	187.50	337.12	35.00	222.00	0.50	12.00	350.87	2.26	307.50	306.01	0.09	0.05
198	12.15	14	SLE Q	11	9	0.00	346.23	35.00	222.00	0.50	12.00	350.87	2.26	307.50	314.28	0.09	0.05
202	12.15	12	SLE F	11	9	0.00	349.21	35.00	222.00	0.50	12.00	350.87	2.26	307.50	316.99	0.09	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	2.85	3.41	0.56	ø8/20 2 br.	5.03	0.30	4316.30	2.50	22458.20	27473.00	22458.20	5.203
3 SLV	3.41	5.37	1.95	ø8/20 2 br.	5.03	0.30	3217.95	2.50	22458.20	27473.00	22458.20	6.979
3 SLV	5.37	5.92	0.56	ø8/20 2 br.	5.03	0.30	2982.79	2.50	22458.20	27473.00	22458.20	7.529
7 SLU	6.22	6.79	0.56	ø8/20 2 br.	5.03	0.30	2132.67	2.50	22458.20	27473.00	22458.20	10.530
7 SLU	6.79	8.74	1.95	ø8/20 2 br.	5.03	0.30	3178.99	2.50	22458.20	27473.00	22458.20	7.065
7 SLU	8.74	9.30	0.56	ø8/20 2 br.	5.03	0.30	4361.73	2.50	22458.20	27473.00	22458.20	5.149
3 SLV	10.30	10.86	0.56	ø8/20 2 br.	5.03	0.30	2907.82	2.50	22458.20	27473.00	22458.20	7.723
3 SLV	10.86	11.59	0.73	ø8/20 2 br.	5.03	0.30	2319.82	2.50	22458.20	27473.00	22458.20	9.681
3 SLV	11.59	12.15	0.56	ø8/20 2 br.	5.03	0.30	2901.17	2.50	22458.20	27473.00	22458.20	7.741

Travata n. 134

Nodi: -997 -981 137

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
26	R	30.00	55.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	7	SLU	1	0.00	3.08	3.08	3.08	3.08	-2012.24	-6734.25	3.347
2.39	7	SLU	2	154.93	3.08	3.08	3.08	3.08	3470.03	6734.25	1.941

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	10	SLE R	1	0.00	3.08	3.08	-1524.24	1045.21	-159.41	17.66
0.00	14	SLE Q	1	0.00	3.08	3.08	-1371.28	940.32	-143.41	15.89
2.39	10	SLE R	2	154.93	3.08	3.08	2628.57	-274.91	1802.47	30.46
2.39	14	SLE Q	2	154.93	3.08	3.08	2363.16	-247.15	1620.48	27.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
18	0.00	14	SLE Q	1	26	0.00	-1371.28	34.00	220.00	0.50	14.00	335.30	3.08	307.50	940.32	0.27	0.16
20	0.00	12	SLE F	1	26	0.00	-1389.93	34.00	220.00	0.50	14.00	335.30	3.08	307.50	953.11	0.28	0.16
36	2.39	14	SLE Q	2	26	154.93	2363.16	34.00	220.00	0.50	14.00	335.30	3.08	307.50	1620.48	0.47	0.27
38	2.39	12	SLE F	2	26	154.93	2397.12	34.00	220.00	0.50	14.00	335.30	3.08	307.50	1643.76	0.48	0.27

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.
7 SLU	0.08	0.61	0.55	ø8/20 2 br.	5.03	0.30	3172.65	2.50	22025.50	26943.70	22025.50	6.942
7 SLU	0.62	5.57	5.18	ø8/20 2 br.	5.03	0.30	3742.86	2.50	22025.50	26943.70	22025.50	5.885
7 SLU	5.57	6.10	0.55	ø8/20 2 br.	5.03	0.30	4170.23	2.50	22025.50	26943.70	22025.50	5.282

Travata n. 135

Nodi: 123 47

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>
22	R	25.00	50.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
1.81	7	SLU	1	261.06	2.26	3.08	2.26	3.08	1594.66	5998.87	3.762
3.95	3	SLV	1	31.89	2.26	3.08	2.26	3.08	-1857.06	-4485.47	2.415

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>
1.81	10	SLE R	1	261.06	2.26	3.08	1200.56	-170.27	922.18	18.50
1.81	14	SLE Q	1	261.06	2.26	3.08	1036.75	-147.04	796.36	15.97
3.95	10	SLE R	1	31.89	2.26	3.08	-1042.22	1079.39	-144.77	17.66
3.95	14	SLE Q	1	31.89	2.26	3.08	-919.55	952.34	-127.73	15.58

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>
16	1.81	14	SLE Q	1	22	261.06	1036.75	34.00	170.00	0.50	14.00	184.52	3.08	256.25	796.36	0.23	0.07
18	1.81	12	SLE F	1	22	261.06	1057.72	34.00	170.00	0.50	14.00	184.52	3.08	256.25	812.47	0.24	0.07
37	3.95	14	SLE Q	1	22	31.89	-919.55	35.00	172.00	0.50	12.00	205.94	2.26	256.25	952.34	0.28	0.10
39	3.95	12	SLE F	1	22	31.89	-935.32	35.00	172.00	0.50	12.00	205.94	2.26	256.25	968.67	0.28	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.
7 SLU	0.04	0.52	0.50	ø8/20 2 br.	5.03	0.25	3464.31	2.50	19861.90	20247.40	19861.90	5.733
7 SLU	0.52	3.41	2.99	ø8/20 2 br.	5.03	0.25	2720.97	2.50	19861.90	20247.40	19861.90	7.300
7 SLU	3.41	3.89	0.50	ø8/20 2 br.	5.03	0.25	2753.93	2.50	19861.90	20247.40	19861.90	7.212

Travata n. 137

Nodi: -1010 143

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>
21	L	60.00	30.00	20.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.68	3	SLV	1	577.68	2.76	2.26	2.76	2.26	-4105.07	-6686.29	1.629
6.10	3	SLV	1	0.00	2.76	2.26	2.76	2.26	-5623.74	-6686.29	1.189

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>
0.68	8	SLE R	1	577.68	2.76	2.26	-960.74	664.19	-94.13	10.28
0.68	14	SLE Q	1	577.68	2.76	2.26	-967.61	668.94	-94.81	10.35
6.10	10	SLE R	1	0.00	2.76	2.26	-2196.26	1518.34	-215.19	23.49
6.10	14	SLE Q	1	0.00	2.76	2.26	-2161.08	1494.03	-211.75	23.12

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>
23	0.68	14	SLE Q	1	21	577.68	-967.61	35.67	261.00	0.50	11.00	371.02	2.76	615.00	668.94	0.19	0.12
25	0.68	11	SLE F	1	21	577.68	-967.64	35.67	261.00	0.50	11.00	371.02	2.76	615.00	668.96	0.19	0.12
46	6.10	14	SLE Q	1	21	0.00	-2161.08	35.67	261.00	0.50	11.00	371.02	2.76	615.00	1494.03	0.44	0.27
48	6.10	12	SLE F	1	21	0.00	-2164.83	35.67	261.00	0.50	11.00	371.02	2.76	615.00	1496.62	0.44	0.27

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.
3 SLV	0.20	0.78	0.60	ø8/20 2 br.	5.03	0.30	2526.17	2.50	24189.10	29590.40	24189.10	9.575
3 SLV	0.78	5.63	5.08	ø8/20 2 br.	5.03	0.30	2711.96	2.50	24189.10	29590.40	24189.10	8.919
3 SLV	5.63	6.20	0.60	ø8/20 2 br.	5.03	0.30	3005.25	2.50	24189.10	29590.40	24189.10	8.049

Travata n. 202

Nodi: 214 -1031 -1032 -1033 215 216 -1034 -1035 -1036 -1037 217 -1038 -1039 -1040 -1041 -1042 219

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>
15	R	30.00	50.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
1.52	1	SLV	4	0.00	6.03	6.03	6.03	6.03	-3131.98	-11511.70	3.676
2.14	1	SLV	4	61.50	6.03	6.03	6.03	6.03	-2856.28	-11511.70	4.030
4.60	1	SLV	4	307.50	6.03	6.03	6.03	6.03	-1601.99	-11511.70	7.186
4.90	1	SLV	5	15.00	6.03	6.03	6.03	6.03	-2751.41	-11511.70	4.184
7.29	1	SLV	5	253.58	6.03	6.03	6.03	6.03	2711.38	11511.70	4.246
8.18	1	SLV	5	342.50	6.03	6.03	6.03	6.03	-2732.13	-11511.70	4.213
10.60	1	SLV	11	15.00	6.03	6.03	6.03	6.03	-3124.31	-11511.70	3.685
15.32	1	SLV	12	272.50	6.03	6.03	6.03	6.03	-3058.94	-11511.70	3.763

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>
1.52	10	SLE R	4	0.00	6.03	6.03	-1289.25	511.50	-125.82	12.56
1.52	14	SLE Q	4	0.00	6.03	6.03	-1139.84	452.22	-111.24	11.10

2.14	10	SLE R	4	61.50	6.03	6.03	-1069.58	424.35	-104.38	10.42
2.14	14	SLE Q	4	61.50	6.03	6.03	-947.27	375.82	-92.45	9.23
4.60	10	SLE R	4	307.50	6.03	6.03	-1138.13	451.55	-111.07	11.08
4.60	14	SLE Q	4	307.50	6.03	6.03	-1000.04	396.76	-97.60	9.74
4.90	10	SLE R	5	15.00	6.03	6.03	-1727.49	685.37	-168.59	16.82
4.90	14	SLE Q	5	15.00	6.03	6.03	-1534.19	608.68	-149.73	14.94
7.29	10	SLE R	5	253.58	6.03	6.03	1143.12	-111.56	453.53	11.13
7.29	14	SLE Q	5	253.58	6.03	6.03	1013.43	-98.90	402.07	9.87
8.18	10	SLE R	5	342.50	6.03	6.03	609.35	-59.47	241.75	5.93
8.18	14	SLE Q	5	342.50	6.03	6.03	561.25	-54.77	222.67	5.47
10.60	8	SLE R	11	15.00	6.03	6.03	-597.06	236.88	-58.27	5.81
10.60	14	SLE Q	11	15.00	6.03	6.03	-594.01	235.67	-57.97	5.78
15.32	10	SLE R	12	272.50	6.03	6.03	-722.46	286.63	-70.51	7.04
15.32	14	SLE Q	12	272.50	6.03	6.03	-703.67	279.18	-68.67	6.85

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	1.52	14	SLE Q	4	15	0.00	-1139.84	33.00	109.00	0.50	16.00	147.57	6.03	307.50	452.22	0.13	0.03
17	1.52	12	SLE F	4	15	0.00	-1158.43	33.00	109.00	0.50	16.00	147.57	6.03	307.50	459.60	0.13	0.03
42	2.14	14	SLE Q	4	15	61.50	-947.27	33.00	109.00	0.50	16.00	147.57	6.03	307.50	375.82	0.11	0.03
46	2.14	12	SLE F	4	15	61.50	-962.40	33.00	109.00	0.50	16.00	147.57	6.03	307.50	381.83	0.11	0.03
63	4.60	14	SLE Q	4	15	307.50	-1000.04	33.00	109.00	0.50	16.00	147.57	6.03	307.50	396.76	0.12	0.03
65	4.60	12	SLE F	4	15	307.50	-1018.81	33.00	109.00	0.50	16.00	147.57	6.03	307.50	404.21	0.12	0.03
83	4.90	14	SLE Q	5	15	15.00	-1534.19	33.00	109.00	0.50	16.00	147.57	6.03	307.50	608.68	0.18	0.04
85	4.90	12	SLE F	5	15	15.00	-1559.20	33.00	109.00	0.50	16.00	147.57	6.03	307.50	618.60	0.18	0.05
103	7.29	14	SLE Q	5	15	253.58	1013.43	33.00	109.00	0.50	16.00	147.57	6.03	307.50	402.07	0.12	0.03
105	7.29	12	SLE F	5	15	253.58	1030.13	33.00	109.00	0.50	16.00	147.57	6.03	307.50	408.70	0.12	0.03
129	8.18	14	SLE Q	5	15	342.50	561.25	33.00	109.00	0.50	16.00	147.57	6.03	307.50	222.67	0.06	0.02
133	8.18	12	SLE F	5	15	342.50	567.31	33.00	109.00	0.50	16.00	147.57	6.03	307.50	225.08	0.07	0.02
150	10.60	14	SLE Q	11	15	15.00	-594.01	33.00	109.00	0.50	16.00	147.57	6.03	307.50	235.67	0.07	0.02
151	10.60	11	SLE F	11	15	15.00	-595.52	33.00	109.00	0.50	16.00	147.57	6.03	307.50	236.27	0.07	0.02
168	15.32	14	SLE Q	12	15	272.50	-703.67	33.00	109.00	0.50	16.00	147.57	6.03	307.50	279.18	0.08	0.02
170	15.32	12	SLE F	12	15	272.50	-706.38	33.00	109.00	0.50	16.00	147.57	6.03	307.50	280.25	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.
7 SLU	1.52	2.02	0.50	ø8/20 2 br.	5.03	0.30	3047.97	2.50	19861.90	24296.90	19861.90	6.516
1 SLV	2.02	4.10	2.07	ø8/20 2 br.	5.03	0.30	2218.11	2.50	19861.90	24296.90	19861.90	8.954
7 SLU	4.10	4.60	0.50	ø8/20 2 br.	5.03	0.30	2915.13	2.50	19861.90	24296.90	19861.90	6.813
7 SLU	4.90	5.40	0.50	ø8/20 2 br.	5.03	0.30	3768.18	2.50	19861.90	24296.90	19861.90	5.271
1 SLV	5.40	7.67	2.27	ø8/20 2 br.	5.03	0.30	3015.48	2.50	19861.90	24296.90	19861.90	6.587
1 SLV	7.67	8.18	0.50	ø8/20 2 br.	5.03	0.30	2835.72	2.50	19861.90	24296.90	19861.90	7.004
1 SLV	10.60	11.10	0.50	ø8/20 2 br.	5.03	0.30	1895.86	2.50	19861.90	24296.90	19861.90	10.476
1 SLV	11.10	14.82	3.72	ø8/20 2 br.	5.03	0.30	1754.77	2.50	19861.90	24296.90	19861.90	11.319
1 SLV	14.82	15.32	0.50	ø8/20 2 br.	5.03	0.30	1942.28	2.50	19861.90	24296.90	19861.90	10.226

Travata n. 205

Nodi: -1001 48 -1002 -1003 -1004 -1005 49 -1006 -1007 -1008 -1009 -1010

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>
15	R	30.00	50.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	7	SLU	1	0.00	6.03	6.03	6.03	6.03	1799.12	11511.70	6.398
1.54	7	SLU	1	153.57	6.03	6.03	6.03	6.03	3596.25	11511.70	3.201
4.30	7	SLU	1	430.00	6.03	6.03	6.03	6.03	-3731.09	-11511.70	3.085
4.60	1	SLV	2	15.00	6.03	6.03	6.03	6.03	-3973.81	-11511.70	2.897
6.63	1	SLV	2	217.62	6.03	6.03	6.03	6.03	2806.71	11511.70	4.101
7.03	1	SLV	2	257.50	6.03	6.03	6.03	6.03	2806.71	11511.70	4.101
8.53	1	SLV	6	17.50	6.03	6.03	6.03	6.03	-3634.52	-11511.70	3.167
9.47	1	SLV	6	111.54	6.03	6.03	6.03	6.03	2638.90	11511.70	4.362
12.60	1	SLV	6	425.00	6.03	6.03	6.03	6.03	-3087.65	-11511.70	3.728
12.90	1	SLV	7	15.00	6.03	6.03	6.03	6.03	-1680.72	-11511.70	6.849
14.42	1	SLV	7	166.56	6.03	6.03	6.03	6.03	-2091.99	-11511.70	5.503
15.32	1	SLV	7	257.50	6.03	6.03	6.03	6.03	-3165.91	-11511.70	3.636

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	10	SLE R	1	0.00	6.03	6.03	1356.97	-132.43	538.37	13.22
0.00	14	SLE Q	1	0.00	6.03	6.03	1179.78	-115.14	468.07	11.49
1.54	10	SLE R	1	153.57	6.03	6.03	2710.01	-264.48	1075.18	26.39
1.54	14	SLE Q	1	153.57	6.03	6.03	2341.96	-228.56	929.16	22.81
4.30	10	SLE R	1	430.00	6.03	6.03	-2811.71	1115.52	-274.40	27.38
4.30	14	SLE Q	1	430.00	6.03	6.03	-2434.04	965.69	-237.55	23.70
4.60	10	SLE R	2	15.00	6.03	6.03	-2400.10	952.22	-234.23	23.37
4.60	14	SLE Q	2	15.00	6.03	6.03	-2084.01	826.82	-203.38	20.30
6.63	10	SLE R	2	217.62	6.03	6.03	214.98	-20.98	85.29	2.09

6.63	14	SLE Q	2	217.62	6.03	6.03	182.60	-17.82	72.44	1.78
7.03	10	SLE R	2	257.50	6.03	6.03	202.39	-19.75	80.30	1.97
7.03	14	SLE Q	2	257.50	6.03	6.03	172.44	-16.83	68.42	1.68
8.53	10	SLE R	6	17.50	6.03	6.03	-1414.88	561.34	-138.08	13.78
8.53	14	SLE Q	6	17.50	6.03	6.03	-1186.92	470.90	-115.84	11.56
9.47	10	SLE R	6	111.54	6.03	6.03	1549.34	-151.21	614.69	15.09
9.47	14	SLE Q	6	111.54	6.03	6.03	1353.92	-132.13	537.16	13.19
12.60	10	SLE R	6	425.00	6.03	6.03	-2162.36	857.90	-211.03	21.06
12.60	14	SLE Q	6	425.00	6.03	6.03	-1884.72	747.75	-183.94	18.35
12.90	10	SLE R	7	15.00	6.03	6.03	-988.75	392.28	-96.49	9.63
12.90	14	SLE Q	7	15.00	6.03	6.03	-831.80	330.01	-81.18	8.10
14.42	10	SLE R	7	166.56	6.03	6.03	-571.69	226.81	-55.79	5.57
14.42	14	SLE Q	7	166.56	6.03	6.03	-524.46	208.07	-51.18	5.11
15.32	10	SLE R	7	257.50	6.03	6.03	-1263.26	501.19	-123.28	12.30
15.32	14	SLE Q	7	257.50	6.03	6.03	-1131.46	448.90	-110.42	11.02

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
25	0.00	14	SLE Q	1	15	0.00	1179.78	33.00	109.00	0.50	16.00	147.57	6.03	307.50	468.07	0.14	0.03
29	0.00	12	SLE F	1	15	0.00	1202.49	33.00	109.00	0.50	16.00	147.57	6.03	307.50	477.08	0.14	0.03
47	1.54	14	SLE Q	1	15	153.57	2341.96	33.00	109.00	0.50	16.00	147.57	6.03	307.50	929.16	0.27	0.07
49	1.54	12	SLE F	1	15	153.57	2389.54	33.00	109.00	0.50	16.00	147.57	6.03	307.50	948.03	0.28	0.07
65	4.30	14	SLE Q	1	15	430.00	-2434.04	33.00	109.00	0.50	16.00	147.57	6.03	307.50	965.69	0.28	0.07
67	4.30	12	SLE F	1	15	430.00	-2482.96	33.00	109.00	0.50	16.00	147.57	6.03	307.50	985.10	0.29	0.07
83	4.60	14	SLE Q	2	15	15.00	-2084.01	33.00	109.00	0.50	16.00	147.57	6.03	307.50	826.82	0.24	0.06
85	4.60	12	SLE F	2	15	15.00	-2124.45	33.00	109.00	0.50	16.00	147.57	6.03	307.50	842.86	0.25	0.06
108	6.63	14	SLE Q	2	15	217.62	182.60	33.00	109.00	0.50	16.00	147.57	6.03	307.50	72.44	0.02	0.01
112	6.63	12	SLE F	2	15	217.62	186.62	33.00	109.00	0.50	16.00	147.57	6.03	307.50	74.04	0.02	0.01
136	7.03	14	SLE Q	2	15	257.50	172.44	33.00	109.00	0.50	16.00	147.57	6.03	307.50	68.42	0.02	0.00
140	7.03	12	SLE F	2	15	257.50	176.10	33.00	109.00	0.50	16.00	147.57	6.03	307.50	69.87	0.02	0.01
160	8.53	14	SLE Q	6	15	17.50	-1186.92	33.00	109.00	0.50	16.00	147.57	6.03	307.50	470.90	0.14	0.03
164	8.53	12	SLE F	6	15	17.50	-1216.09	33.00	109.00	0.50	16.00	147.57	6.03	307.50	482.48	0.14	0.04
191	9.47	14	SLE Q	6	15	111.54	1353.92	33.00	109.00	0.50	16.00	147.57	6.03	307.50	537.16	0.16	0.04
195	9.47	12	SLE F	6	15	111.54	1379.40	33.00	109.00	0.50	16.00	147.57	6.03	307.50	547.27	0.16	0.04
215	12.60	14	SLE Q	6	15	425.00	-1884.72	33.00	109.00	0.50	16.00	147.57	6.03	307.50	747.75	0.22	0.05
217	12.60	12	SLE F	6	15	425.00	-1921.14	33.00	109.00	0.50	16.00	147.57	6.03	307.50	762.20	0.22	0.06
233	12.90	14	SLE Q	7	15	15.00	-831.80	33.00	109.00	0.50	16.00	147.57	6.03	307.50	330.01	0.10	0.02
235	12.90	12	SLE F	7	15	15.00	-854.40	33.00	109.00	0.50	16.00	147.57	6.03	307.50	338.98	0.10	0.02
258	14.42	14	SLE Q	7	15	166.56	-524.46	33.00	109.00	0.50	16.00	147.57	6.03	307.50	208.07	0.06	0.02
262	14.42	12	SLE F	7	15	166.56	-529.64	33.00	109.00	0.50	16.00	147.57	6.03	307.50	210.13	0.06	0.02
281	15.32	14	SLE Q	7	15	257.50	-1131.46	33.00	109.00	0.50	16.00	147.57	6.03	307.50	448.90	0.13	0.03
283	15.32	12	SLE F	7	15	257.50	-1147.00	33.00	109.00	0.50	16.00	147.57	6.03	307.50	455.06	0.13	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	0.00	0.50	0.50	ø8/20 2 br.	5.03	0.30	3762.03	2.50	19861.90	24296.90	19861.90	5.280
7 SLU	0.50	3.80	3.30	ø8/20 2 br.	5.03	0.30	4412.40	2.50	19861.90	24296.90	19861.90	4.501
7 SLU	3.80	4.30	0.50	ø8/20 2 br.	5.03	0.30	5488.00	2.50	19861.90	24296.90	19861.90	3.619
1 SLV	4.60	5.10	0.50	ø8/20 2 br.	5.03	0.30	4386.61	2.50	19861.90	24296.90	19861.90	4.528
1 SLV	5.10	6.53	1.42	ø8/20 2 br.	5.03	0.30	3687.31	2.50	19861.90	24296.90	19861.90	5.387
1 SLV	6.53	7.03	0.50	ø8/20 2 br.	5.03	0.30	2760.76	2.50	19861.90	24296.90	19861.90	7.194
7 SLU	8.53	9.03	0.50	ø8/20 2 br.	5.03	0.30	4142.85	2.50	19861.90	24296.90	19861.90	4.794
7 SLU	9.03	12.10	3.07	ø8/20 2 br.	5.03	0.30	3547.57	2.50	19861.90	24296.90	19861.90	5.599
7 SLU	12.10	12.60	0.50	ø8/20 2 br.	5.03	0.30	4623.17	2.50	19861.90	24296.90	19861.90	4.296
1 SLV	12.90	13.40	0.50	ø8/20 2 br.	5.03	0.30	2760.77	2.50	19861.90	24296.90	19861.90	7.194
1 SLV	13.40	14.82	1.42	ø8/20 2 br.	5.03	0.30	2308.61	2.50	19861.90	24296.90	19861.90	8.603
1 SLV	14.82	15.32	0.50	ø8/20 2 br.	5.03	0.30	3007.92	2.50	19861.90	24296.90	19861.90	6.603

Travata n. 215

Nodi: 110 217

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>
25	L	60.00	30.00	20.00	30.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
1.94	3	SLV	1	377.77	2.26	2.26	2.26	2.26	1553.83	4775.73	3.074

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>
1.94	8	SLE R	1	377.77	2.26	2.26	1124.02	-68.57	1139.08	12.47
1.94	14	SLE Q	1	377.77	2.26	2.26	1122.58	-68.48	1137.62	12.45

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	1.94	14	SLE Q	1	25	377.77	1122.58	35.00	222.00	0.50	12.00	326.45	2.26	307.50	1137.62	0.33	0.18
16	1.94	11	SLE F	1	25	377.77	1123.21	35.00	222.00	0.50	12.00	326.45	2.26	307.50	1138.25	0.33	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5 SLU	0.19	0.66	0.50	ø8/20 2 br.	5.03	0.30	1548.38	2.50	19861.90	24296.90	19861.90	12.828
5 SLU	0.66	4.49	4.12	ø8/20 2 br.	5.03	0.30	1263.71	2.50	19861.90	24296.90	19861.90	15.717
7 SLU	4.49	4.96	0.50	ø8/20 2 br.	5.03	0.30	1555.25	2.50	19861.90	24296.90	19861.90	12.771

Travata n. 304

Nodi: -1047 -1048 -1049 -1050 324

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>
18	R	30.00	73.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
16.85	7	SLU	4	425.00	4.02	6.28	4.02	6.28	-9333.70	-11872.90	1.272

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>
16.85	10	SLE R	4	425.00	4.02	6.28	-7074.84	2722.40	-433.23	42.19
16.85	14	SLE Q	4	425.00	4.02	6.28	-6332.25	2436.65	-387.76	37.76

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>
15	16.85	14	SLE Q	4	18	425.00	-6332.25	33.00	218.00	0.50	16.00	450.03	4.02	307.50	2436.65	0.84	0.64
17	16.85	12	SLE F	4	18	425.00	-6429.93	33.00	218.00	0.50	16.00	450.03	4.02	307.50	2474.24	0.72	0.55

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.
7 SLU	0.06	16.12	16.06	ø8/20 2 br.	5.03	0.30	5472.19	2.50	29814.40	36471.90	29814.40	5.448
7 SLU	16.12	16.85	0.73	ø8/20 2 br.	5.03	0.30	5991.77	2.50	29814.40	36471.90	29814.40	4.976

Travata n. 316

Nodi: -1048 216

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	40.00	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
5.05	7	SLU	1	515.88	4.62	2.36	4.62	2.36	-1738.77	-2928.96	1.685

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>
5.05	10	SLE R	1	515.88	4.62	2.36	-1312.55	2056.01	-322.67	76.61
5.05	14	SLE Q	1	515.88	4.62	2.36	-1151.22	1803.31	-283.01	67.19

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	5.05	14	SLE Q	1	19	515.88	-1151.22	35.60	82.00	0.50	10.89	116.15	4.62	190.66	1803.31	0.67	0.13
17	5.05	12	SLE F	1	19	515.88	-1172.14	35.60	82.00	0.50	10.89	116.15	4.62	190.66	1836.08	0.59	0.12

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	0.04	4.87	4.94	ø6/15 2 br.	3.77	0.40	2992.50	2.50	5160.19	11222.10	5160.19	1.724
7 SLU	4.87	5.07	0.20	ø6/15 2 br.	3.77	0.40	1819.25	2.50	5160.19	11222.10	5160.19	2.836

Travata n. 317

Nodi: 216 -1050

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	40.00	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.23	7	SLU	1	23.51	4.62	2.36	4.62	2.36	-1873.01	-2928.96	1.564

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>
0.23	10	SLE R	1	23.51	4.62	2.36	-1413.91	2214.79	-347.59	82.53
0.23	14	SLE Q	1	23.51	4.62	2.36	-1240.98	1943.91	-305.08	72.43

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	0.23	14	SLE Q	1	19	23.51	-1240.98	35.60	82.00	0.50	10.89	116.15	4.62	190.66	1943.91	0.74	0.15
17	0.23	12	SLE F	1	19	23.51	-1263.38	35.60	82.00	0.50	10.89	116.15	4.62	190.66	1978.99	0.66	0.13

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.
7 SLU	0.21	0.41	0.20	ø6/15 2 br.	3.77	0.40	1877.23	2.50	5160.19	11222.10	5160.19	2.749
7 SLU	0.41	5.30	5.00	ø6/15 2 br.	3.77	0.40	3014.18	2.50	5160.19	11222.10	5160.19	1.712

Travata n. 318

Nodi: -1050 219

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	40.00	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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>	N <daN>	MRdy <daNm>	Nu <daN>	Sic.
5.24	7	SLU	1	535.97	4.62	2.36	4.62	2.36	-2229.59	-12854.80	-3710.50	-12854.80	1.664

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	N <daN>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
5.24	10	SLE R	1	535.97	4.62	2.36	-1684.15	-9725.90	1602.58	-704.39	100.40
5.24	14	SLE Q	1	535.97	4.62	2.36	-1480.85	-8672.05	1397.27	-622.38	88.27

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.
7 SLU	0.04	5.07	5.14	ø6/15 2 br.	3.77	0.40	3024.97	2.50	5160.19	12806.70	5160.19	1.706
7 SLU	5.07	5.27	0.20	ø6/15 2 br.	3.77	0.40	1908.45	2.50	5160.19	12807.90	5160.19	2.704

Travata n. 319

Nodi: 214 -1048

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	40.00	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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>	N <daN>	MRdy <daNm>	Nu <daN>	Sic.
0.09	7	SLU	1	9.38	4.62	2.36	4.62	2.36	-2248.16	-10812.40	-3592.47	-10812.40	1.598

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	N <daN>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.09	10	SLE R	1	9.38	4.62	2.36	-1698.63	-8185.62	1779.33	-668.36	101.26
0.09	14	SLE Q	1	9.38	4.62	2.36	-1496.65	-7246.12	1564.32	-589.79	89.22

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	N <daN>	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>
15	0.09	14	SLE Q	1	19	9.38	-1496.65	-7246.12	35.60	82.00	0.50	10.89	111.03	4.62	168.92	1564.32	0.58	0.11
17	0.09	12	SLE F	1	19	9.38	-1522.90	-7369.61	35.60	82.00	0.50	10.89	111.03	4.62	168.94	1592.12	0.50	0.09

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.
7 SLU	0.07	0.27	0.20	ø6/15 2 br.	3.77	0.40	1905.66	2.50	5160.19	12556.00	5160.19	2.708
7 SLU	0.27	5.24	5.08	ø6/15 2 br.	3.77	0.40	2947.86	2.50	5160.19	12554.70	5160.19	1.750

Travata n. 320

Nodi: 229 -1050

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	40.00	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.32	7	SLU	1	525.67	4.62	2.36	4.62	2.36	-2022.95	-2928.96	1.448

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>
0.32	10	SLE R	1	525.67	4.62	2.36	-1526.08	2390.50	-375.17	89.07
0.32	14	SLE Q	1	525.67	4.62	2.36	-1333.82	2089.33	-327.90	77.85

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	0.32	14	SLE Q	1	19	525.67	-1333.82	35.60	82.00	0.50	10.89	116.15	4.62	190.66	2089.33	0.81	0.16
17	0.32	12	SLE F	1	19	525.67	-1358.69	35.60	82.00	0.50	10.89	116.15	4.62	190.66	2128.29	0.73	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.
7 SLU	0.30	0.50	0.20	ø6/15 2 br.	3.77	0.40	1998.46	2.50	5160.19	11222.10	5160.19	2.582
7 SLU	0.50	5.44	5.04	ø6/15 2 br.	3.77	0.40	3143.00	2.50	5160.19	11222.10	5160.19	1.642

Travata n. 321

Nodi: -1050 231

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	40.00	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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>	N <daN>	MRdy <daNm>	Nu <daN>	Sic.
5.28	7	SLU	1	539.54	4.62	2.36	4.62	2.36	-2427.45	-11310.70	-3621.70	-11310.70	1.492

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	N <daN>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
5.28	10	SLE R	1	539.54	4.62	2.36	-1833.12	-8570.86	1947.05	-714.23	109.26
5.28	14	SLE Q	1	539.54	4.62	2.36	-1607.11	-7567.34	1701.55	-627.61	95.79

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	N <daN>	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>
15	5.28	14	SLE Q	1	19	539.54	-1607.11	-7567.34	35.60	82.00	0.50	10.89	111.19	4.62	169.61	1701.55	0.64	0.12
17	5.28	12	SLE F	1	19	539.54	-1636.52	-7700.91	35.60	82.00	0.50	10.89	111.19	4.62	169.62	1733.19	0.57	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.
7 SLU	0.04	5.11	5.18	ø6/15 2 br.	3.77	0.40	3140.42	2.50	5160.19	12616.10	5160.19	1.643
7 SLU	5.11	5.31	0.20	ø6/15 2 br.	3.77	0.40	2045.48	2.50	5160.19	12617.40	5160.19	2.523

Travata n. 322

Nodi: -1048 229

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	40.00	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
5.09	7	SLU	1	519.87	4.62	2.36	4.62	2.36	-2013.67	-2928.96	1.455

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>
5.09	10	SLE R	1	519.87	4.62	2.36	-1519.26	2379.81	-373.49	88.68
5.09	14	SLE Q	1	519.87	4.62	2.36	-1327.78	2079.87	-326.42	77.50

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	5.09	14	SLE Q	1	19	519.87	-1327.78	35.60	82.00	0.50	10.89	116.15	4.62	190.66	2079.87	0.81	0.16
17	5.09	12	SLE F	1	19	519.87	-1352.61	35.60	82.00	0.50	10.89	116.15	4.62	190.66	2118.76	0.73	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.
7 SLU	0.04	4.91	4.98	ø6/15 2 br.	3.77	0.40	3069.89	2.50	5160.19	11222.10	5160.19	1.681
7 SLU	4.91	5.11	0.20	ø6/15 2 br.	3.77	0.40	1987.80	2.50	5160.19	11222.10	5160.19	2.596

Travata n. 323

Nodi: 232 -1048

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	40.00	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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>	N <daN>	MRdy <daNm>	Nu <daN>	Sic.
0.19	7	SLU	1	533.64	4.62	2.36	4.62	2.36	-1816.14	-16021.50	-3886.88	-16021.50	2.140

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	N <daN>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.19	10	SLE R	1	533.64	4.62	2.36	-1370.36	-12136.30	911.19	-668.84	81.19
0.19	14	SLE Q	1	533.64	4.62	2.36	-1195.93	-10823.70	775.23	-588.38	70.81

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.
7 SLU	0.17	0.37	0.20	ø6/15 2 br.	3.77	0.40	1874.01	2.50	5160.19	13198.60	5160.19	2.754
7 SLU	0.37	5.38	5.12	ø6/15 2 br.	3.77	0.40	3227.89	2.50	5160.19	13197.20	5160.19	1.599

Travata n. 902

Nodi: -772 -1096 129

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
30	R	30.00	50.00	4.10	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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.
6.20	5	SLU	2	30.00	7.63	9.42	7.63	9.42	-11518.90	-12889.90	1.119

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>
6.20	8	SLE R	2	30.00	7.63	9.42	-8474.01	2664.93	-716.80	69.90
6.20	14	SLE Q	2	30.00	7.63	9.42	-7450.00	2342.90	-630.18	61.45

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	6.20	14	SLE Q	2	30	30.00	-7450.00	32.00	108.00	0.50	18.00	136.50	7.63	307.50	2342.90	0.88	0.20
16	6.20	11	SLE F	2	30	30.00	-7698.25	32.00	108.00	0.50	18.00	136.50	7.63	307.50	2420.97	0.79	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5 SLU	0.06	5.70	5.64	ø8/10 2 br.	10.05	0.30	11690.60	2.30	37330.40	37330.40	37330.40	3.193
5 SLU	5.70	6.20	0.50	ø8/10 2 br.	10.05	0.30	12092.60	2.30	37330.40	37330.40	37330.40	3.087

Travata n. 903

Nodi: -773 130

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
30	R	30.00	50.00	4.10	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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.
6.20	5	SLU	1	30.00	7.63	12.57	7.63	12.57	-9343.19	-12889.30	1.380

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>
6.20	8	SLE R	1	30.00	7.63	12.57	-6825.42	2139.43	-525.96	52.49
6.20	14	SLE Q	1	30.00	7.63	12.57	-5881.40	1843.52	-453.21	45.23

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}	Wk <mm>
15	6.20	14	SLE Q	1	30	30.00	-5881.40	32.00	108.00	0.50	18.00	136.50	7.63	307.50	1843.52	0.64	0.15
16	6.20	11	SLE F	1	30	30.00	-6115.84	32.00	108.00	0.50	18.00	136.50	7.63	307.50	1917.01	0.56	0.13

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.
5 SLU	0.06	5.70	5.64	ø8/20 2 br.	5.03	0.30	13072.30	2.50	20313.30	35174.00	20313.30	1.554
5 SLU	5.70	6.20	0.50	ø8/10 2 br.	10.05	0.30	12883.10	2.30	37330.40	37330.40	37330.40	2.898

Travata n. 904

Nodi: -771 -823

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
35	R	30.00	40.00	4.10	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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.
0.15	3	SLV	1	15.00	7.63	7.63	7.63	7.63	-1640.83	-9902.47	6.035
3.10	5	SLU	1	309.94	7.63	7.63	7.63	7.63	904.42	9902.47	10.949
6.53	3	SLV	1	652.50	7.63	7.63	7.63	7.63	-1486.26	-9902.47	6.663

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>
0.15	10	SLE R	1	15.00	7.63	7.63	-923.28	377.92	-113.31	11.78
0.15	14	SLE Q	1	15.00	7.63	7.63	-921.51	377.20	-113.10	11.75
3.10	8	SLE R	1	309.94	7.63	7.63	692.54	-85.00	283.48	8.83
3.10	14	SLE Q	1	309.94	7.63	7.63	684.42	-84.00	280.15	8.73
6.53	9	SLE R	1	652.50	7.63	7.63	-878.60	359.63	-107.83	11.21
6.53	14	SLE Q	1	652.50	7.63	7.63	-882.27	361.13	-108.28	11.25

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
17	0.15	14	SLE Q	1	35	15.00	-921.51	32.00	108.00	0.50	18.00	131.35	7.63	285.65	377.20	0.11	0.02
19	0.15	12	SLE F	1	35	15.00	-921.99	32.00	108.00	0.50	18.00	131.35	7.63	285.65	377.39	0.11	0.02
35	3.10	14	SLE Q	1	35	309.94	684.42	32.00	108.00	0.50	18.00	131.35	7.63	285.65	280.15	0.08	0.02
36	3.10	11	SLE F	1	35	309.94	686.49	32.00	108.00	0.50	18.00	131.35	7.63	285.65	281.00	0.08	0.02
53	6.53	14	SLE Q	1	35	652.50	-882.27	32.00	108.00	0.50	18.00	131.35	7.63	285.65	361.13	0.11	0.02
56	6.53	13	SLE F	1	35	652.50	-882.27	32.00	108.00	0.50	18.00	131.35	7.63	285.65	361.13	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.
7 SLU	0.15	0.55	0.40	ø8/ 8 2 br.	12.57	0.30	1252.66	2.01	31861.00	31861.00	31861.00	25.435
7 SLU	0.55	6.12	5.57	ø8/ 8 2 br.	12.57	0.30	1096.65	2.01	31861.00	31861.00	31861.00	29.053
5 SLU	6.12	6.53	0.40	ø8/ 8 2 br.	12.57	0.30	1234.47	2.01	31861.00	31861.00	31861.00	25.810

Travata n. 905

Nodi: 129 140

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
33	R	30.00	16.00	4.10	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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.
0.01	5	SLU	1	599.75	6.03	6.03	6.03	6.03	-569.74	-2243.06	3.937
3.15	7	SLU	1	285.59	6.03	6.03	6.03	6.03	246.76	2243.06	9.090
6.00	7	SLU	1	0.29	6.03	6.03	6.03	6.03	-407.49	-2243.06	5.505

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.01	3	SND	1	599.75	6.03	6.03	6.03	6.03	-502.54	-2190.47	4.359
3.15	3	SND	1	285.59	6.03	6.03	6.03	6.03	204.67	2190.47	10.703
6.00	3	SND	1	0.29	6.03	6.03	6.03	6.03	-401.07	-2190.47	5.462

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>
0.01	8	SLE R	1	599.75	6.03	6.03	-432.77	749.44	-163.38	42.88
0.01	14	SLE Q	1	599.75	6.03	6.03	-419.39	726.27	-158.33	41.55
3.15	10	SLE R	1	285.59	6.03	6.03	190.65	-71.97	330.14	18.89
3.15	14	SLE Q	1	285.59	6.03	6.03	190.24	-71.82	329.44	18.85
6.00	10	SLE R	1	0.29	6.03	6.03	-315.04	545.57	-118.93	31.21
6.00	14	SLE Q	1	0.29	6.03	6.03	-315.27	545.96	-119.02	31.24

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.
5 SLU	0.01	0.17	0.16	ø8/ 8 2 br.	12.57	0.30	496.13	2.01	10561.20	10561.20	10561.20	21.287
5 SLU	0.17	5.84	5.67	ø8/ 8 2 br.	12.57	0.30	471.16	2.01	10561.20	10561.20	10561.20	22.415
7 SLU	5.84	6.00	0.16	ø8/ 8 2 br.	12.57	0.30	443.99	2.01	10561.20	10561.20	10561.20	23.787

Travata n. 906

Nodi: 132 133

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
33	R	30.00	16.00	4.10	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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	7	SLU	1	0.00	6.03	6.03	6.03	6.03	-474.59	-2243.06	4.726
2.07	5	SLU	1	207.48	6.03	6.03	6.03	6.03	207.03	2243.06	10.835
6.00	5	SLU	1	600.00	6.03	6.03	6.03	6.03	-451.94	-2243.06	4.963

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.00	1	SND	1	0.00	6.03	6.03	6.03	6.03	-803.16	-2190.47	2.727
2.07	1	SND	1	207.48	6.03	6.03	6.03	6.03	361.56	2190.47	6.058
6.00	1	SND	1	600.00	6.03	6.03	6.03	6.03	-636.47	-2190.47	3.442

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	10	SLE R	1	0.00	6.03	6.03	-364.80	631.72	-137.72	36.14
0.00	14	SLE Q	1	0.00	6.03	6.03	-363.03	628.66	-137.05	35.97
2.07	8	SLE R	1	207.48	6.03	6.03	159.27	-60.13	275.81	15.78
2.07	14	SLE Q	1	207.48	6.03	6.03	159.42	-60.18	276.07	15.80
6.00	8	SLE R	1	600.00	6.03	6.03	-347.70	602.12	-131.26	34.45
6.00	14	SLE Q	1	600.00	6.03	6.03	-348.01	602.66	-131.38	34.48

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 SND	0.00	0.16	0.16	ø8/ 8 2 br.	12.57	0.30	482.03	2.01	10561.20	10561.20	10561.20	21.910
1 SND	0.16	5.84	5.68	ø8/ 8 2 br.	12.57	0.30	462.83	2.01	10561.20	10561.20	10561.20	22.819
1 SND	5.84	6.00	0.16	ø8/ 8 2 br.	12.57	0.30	477.03	2.01	10561.20	10561.20	10561.20	22.140

Travata n. 907

Nodi: -797 -798 -799 146 -1096

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
30	R	30.00	50.00	4.10	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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.
0.10	5	SLU	1	10.00	9.42	9.42	9.42	9.42	641.64	15816.60	24.650
0.75	5	SLU	1	74.55	9.42	9.42	9.42	9.42	776.87	15816.60	20.360
1.43	5	SLU	1	142.50	9.42	9.42	9.42	9.42	776.87	15816.60	20.360
1.62	5	SLU	2	10.00	9.42	9.42	9.42	9.42	-2083.38	-15816.60	7.592
3.33	5	SLU	2	180.00	9.42	9.42	9.42	9.42	-9078.15	-15816.60	1.742
3.52	5	SLU	3	10.00	9.42	9.42	9.42	9.42	-9655.40	-15816.60	1.638

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>
0.10	8	SLE R	1	10.00	9.42	9.42	462.49	-38.00	118.64	3.56
0.10	14	SLE Q	1	10.00	9.42	9.42	384.71	-31.61	98.69	2.96
0.75	8	SLE R	1	74.55	9.42	9.42	558.47	-45.89	143.27	4.30
0.75	14	SLE Q	1	74.55	9.42	9.42	460.73	-37.86	118.19	3.54
1.43	8	SLE R	1	142.50	9.42	9.42	558.47	-45.89	143.27	4.30
1.43	14	SLE Q	1	142.50	9.42	9.42	460.73	-37.86	118.19	3.54
1.62	8	SLE R	2	10.00	9.42	9.42	-1525.48	391.34	-125.35	11.74
1.62	14	SLE Q	2	10.00	9.42	9.42	-1324.18	339.70	-108.81	10.19
3.33	8	SLE R	2	180.00	9.42	9.42	-6626.95	1700.04	-544.55	50.98
3.33	14	SLE Q	2	180.00	9.42	9.42	-5706.20	1463.84	-468.89	43.90
3.52	8	SLE R	3	10.00	9.42	9.42	-7047.84	1808.01	-579.14	54.22
3.52	14	SLE Q	3	10.00	9.42	9.42	-6067.59	1556.54	-498.59	46.68

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>
24	0.10	14	SLE Q	1	30	10.00	384.71	31.00	107.00	0.50	20.00	127.25	9.42	307.50	98.69	0.03	0.01
26	0.10	11	SLE F	1	30	10.00	405.41	31.00	107.00	0.50	20.00	127.25	9.42	307.50	104.00	0.03	0.01
49	0.75	14	SLE Q	1	30	74.55	460.73	31.00	107.00	0.50	20.00	127.25	9.42	307.50	118.19	0.03	0.01
50	0.75	11	SLE F	1	30	74.55	486.62	31.00	107.00	0.50	20.00	127.25	9.42	307.50	124.83	0.04	0.01
67	1.43	14	SLE Q	1	30	142.50	460.73	31.00	107.00	0.50	20.00	127.25	9.42	307.50	118.19	0.03	0.01
68	1.43	11	SLE F	1	30	142.50	486.62	31.00	107.00	0.50	20.00	127.25	9.42	307.50	124.83	0.04	0.01
96	1.62	14	SLE Q	2	30	10.00	-1324.18	31.00	107.00	0.50	20.00	127.25	9.42	307.50	339.70	0.10	0.02
98	1.62	11	SLE F	2	30	10.00	-1374.18	31.00	107.00	0.50	20.00	127.25	9.42	307.50	352.52	0.10	0.02
118	3.33	14	SLE Q	2	30	180.00	-5706.20	31.00	107.00	0.50	20.00	127.25	9.42	307.50	1463.84	0.50	0.11
119	3.33	11	SLE F	2	30	180.00	-5938.67	31.00	107.00	0.50	20.00	127.25	9.42	307.50	1523.47	0.44	0.10
136	3.52	14	SLE Q	3	30	10.00	-6067.59	31.00	107.00	0.50	20.00	127.25	9.42	307.50	1556.54	0.54	0.12
137	3.52	11	SLE F	3	30	10.00	-6315.22	31.00	107.00	0.50	20.00	127.25	9.42	307.50	1620.07	0.47	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.
5 SLU	0.10	1.43	1.32	ø8/10 2 br.	10.05	0.30	1576.79	2.30	37330.40	37330.40	37330.40	23.675
5 SLU	1.62	2.12	0.50	ø8/10 2 br.	10.05	0.30	4830.44	2.30	37330.40	37330.40	37330.40	7.728
5 SLU	2.12	2.82	0.70	ø8/10 2 br.	10.05	0.30	6072.53	2.30	37330.40	37330.40	37330.40	6.147
5 SLU	2.82	3.33	0.50	ø8/10 2 br.	10.05	0.30	6959.76	2.30	37330.40	37330.40	37330.40	5.364
5 SLU	3.52	4.03	0.50	ø8/10 2 br.	10.05	0.30	9725.87	2.30	37330.40	37330.40	37330.40	3.838
5 SLU	4.03	8.29	4.26	ø8/10 2 br.	10.05	0.30	8838.64	2.30	37330.40	37330.40	37330.40	4.224

Travata n. 908

Nodi: 220 224 225

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
30	R	30.00	50.00	4.10	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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.
0.10	3	SLV	1	10.00	6.03	6.03	6.03	6.03	-660.16	-10268.10	15.554
0.99	3	SLV	1	98.92	6.03	6.03	6.03	6.03	1007.78	10268.10	10.189
1.40	3	SLV	1	140.00	6.03	6.03	6.03	6.03	1007.78	10268.10	10.189
1.70	3	SLV	2	15.00	6.03	6.03	6.03	6.03	-750.76	-10268.10	13.677
3.00	3	SLV	2	145.00	6.03	6.03	6.03	6.03	519.16	10268.10	19.778

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>
0.10	8	SLE R	1	10.00	6.03	6.03	100.25	-9.78	39.77	0.98
0.10	14	SLE Q	1	10.00	6.03	6.03	93.98	-9.17	37.29	0.92
0.99	10	SLE R	1	98.92	6.03	6.03	133.85	-13.06	53.10	1.30
0.99	14	SLE Q	1	98.92	6.03	6.03	123.23	-12.03	48.89	1.20
1.40	10	SLE R	1	140.00	6.03	6.03	133.85	-13.06	53.10	1.30
1.40	14	SLE Q	1	140.00	6.03	6.03	123.23	-12.03	48.89	1.20
1.70	8	SLE R	2	15.00	6.03	6.03	-67.00	26.58	-6.54	0.65
1.70	14	SLE Q	2	15.00	6.03	6.03	-60.25	23.90	-5.88	0.59
3.00	8	SLE R	2	145.00	6.03	6.03	49.25	-4.81	19.54	0.48
3.00	14	SLE Q	2	145.00	6.03	6.03	44.98	-4.39	17.84	0.44

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>
23	0.10	14	SLE Q	1	30	10.00	93.98	33.00	109.00	0.50	16.00	147.57	6.03	307.50	37.29	0.01	0.00
25	0.10	11	SLE F	1	30	10.00	95.57	33.00	109.00	0.50	16.00	147.57	6.03	307.50	37.92	0.01	0.00
47	0.99	14	SLE Q	1	30	98.92	123.23	33.00	109.00	0.50	16.00	147.57	6.03	307.50	48.89	0.01	0.00
49	0.99	12	SLE F	1	30	98.92	124.44	33.00	109.00	0.50	16.00	147.57	6.03	307.50	49.37	0.01	0.00
66	1.40	14	SLE Q	1	30	140.00	123.23	33.00	109.00	0.50	16.00	147.57	6.03	307.50	48.89	0.01	0.00
68	1.40	12	SLE F	1	30	140.00	124.44	33.00	109.00	0.50	16.00	147.57	6.03	307.50	49.37	0.01	0.00
92	1.70	14	SLE Q	2	30	15.00	-60.25	33.00	109.00	0.50	16.00	147.57	6.03	307.50	23.90	0.01	0.00
94	1.70	11	SLE F	2	30	15.00	-62.40	33.00	109.00	0.50	16.00	147.57	6.03	307.50	24.76	0.01	0.00
122	3.00	14	SLE Q	2	30	145.00	44.98	33.00	109.00	0.50	16.00	147.57	6.03	307.50	17.84	0.01	0.00
124	3.00	11	SLE F	2	30	145.00	46.38	33.00	109.00	0.50	16.00	147.57	6.03	307.50	18.40	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.
3 SLV	0.10	1.40	1.30	ø8/10 2 br.	10.05	0.30	1422.54	2.30	37330.40	37330.40	37330.40	26.242
3 SLV	1.70	3.00	1.30	ø8/10 2 br.	10.05	0.30	1123.61	2.30	37330.40	37330.40	37330.40	33.224

Travata n. 1091

Nodi: 50 144

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>
21	L	60.00	30.00	20.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.15	7	SLU	1	15.96	4.02	4.02	4.02	4.02	-8494.75	-9573.20	1.127
2.97	7	SLU	1	316.21	4.02	4.02	4.02	4.02	5623.01	9894.11	1.760

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>
0.15	10	SLE R	1	15.96	4.02	4.02	-6416.68	3076.02	-555.52	56.20
0.15	14	SLE Q	1	15.96	4.02	4.02	-5651.24	2709.08	-489.25	49.49
2.97	10	SLE R	1	316.21	4.02	4.02	4246.96	-216.59	2002.72	26.15
2.97	14	SLE Q	1	316.21	4.02	4.02	3740.96	-190.79	1764.11	23.03

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>
15	0.15	14	SLE Q	1	21	15.96	-5651.24	33.00	518.00	0.50	16.00	359.82	4.02	615.00	2709.08	0.79	0.48
17	0.15	12	SLE F	1	21	15.96	-5744.72	33.00	518.00	0.50	16.00	359.82	4.02	615.00	2753.90	0.80	0.49
33	2.97	14	SLE Q	1	21	316.21	3740.96	33.00	218.00	0.50	16.00	381.33	4.02	307.50	1764.11	0.51	0.33
35	2.97	12	SLE F	1	21	316.21	3801.44	33.00	218.00	0.50	16.00	381.33	4.02	307.50	1792.63	0.52	0.34

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.
7 SLU	0.25	0.83	0.60	ø8/20 2 br.	5.03	0.30	7295.55	2.50	24189.10	29590.40	24189.10	3.316
7 SLU	0.83	5.61	5.01	ø8/20 2 br.	5.03	0.30	5980.35	2.50	24189.10	29590.40	24189.10	4.045
7 SLU	5.61	6.18	0.60	ø8/20 2 br.	5.03	0.30	6110.79	2.50	24189.10	29590.40	24189.10	3.958

Travata n. 1092

Nodi: 121 50

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>
21	L	60.00	30.00	20.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	3	SLV	1	0.00	4.02	4.02	4.02	4.02	-4746.54	-9573.20	2.017
2.25	7	SLU	1	240.20	4.02	4.02	4.02	4.02	5226.96	9894.11	1.893

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	10	SLE R	1	0.00	4.02	4.02	-3159.42	1514.56	-273.52	27.67
0.00	14	SLE Q	1	0.00	4.02	4.02	-2797.95	1341.28	-242.23	24.50
2.25	10	SLE R	1	240.20	4.02	4.02	3949.60	-201.43	1862.50	24.32
2.25	14	SLE Q	1	240.20	4.02	4.02	3482.67	-177.61	1642.31	21.44

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>
18	0.00	14	SLE Q	1	21	0.00	-2797.95	33.00	518.00	0.50	16.00	359.82	4.02	615.00	1341.28	0.39	0.24
20	0.00	12	SLE F	1	21	0.00	-2857.13	33.00	518.00	0.50	16.00	359.82	4.02	615.00	1369.65	0.40	0.24
36	2.25	14	SLE Q	1	21	240.20	3482.67	33.00	218.00	0.50	16.00	381.33	4.02	307.50	1642.31	0.48	0.31
38	2.25	12	SLE F	1	21	240.20	3538.70	33.00	218.00	0.50	16.00	381.33	4.02	307.50	1668.73	0.49	0.32

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.
7 SLU	-0.10	0.47	0.60	ø8/20 2 br.	5.03	0.30	6262.16	2.50	24189.10	29590.40	24189.10	3.863
7 SLU	0.47	5.25	5.01	ø8/20 2 br.	5.03	0.30	5856.61	2.50	24189.10	29590.40	24189.10	4.130
7 SLU	5.25	5.82	0.60	ø8/20 2 br.	5.03	0.30	7171.81	2.50	24189.10	29590.40	24189.10	3.373

Travata n. 1101

Nodi: 51 -874 145

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>
21	L	60.00	30.00	20.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
1.99	7	SLU	1	229.43	4.02	4.02	4.02	4.02	1728.91	9894.11	5.723
4.05	7	SLU	1	9.80	4.02	4.02	4.02	4.02	-2779.42	-9573.20	3.444
5.24	7	SLU	2	99.77	4.02	4.02	4.02	4.02	-1360.66	-9573.20	7.036
6.17	3	SLV	2	0.00	4.02	4.02	4.02	4.02	508.14	9894.11	19.471

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>
1.99	10	SLE R	1	229.43	4.02	4.02	1303.79	-66.49	614.82	8.03
1.99	14	SLE Q	1	229.43	4.02	4.02	1133.91	-57.83	534.71	6.98
4.05	10	SLE R	1	9.80	4.02	4.02	-2097.23	1005.36	-181.56	18.37
4.05	14	SLE Q	1	9.80	4.02	4.02	-1831.89	878.17	-158.59	16.04
5.24	10	SLE R	2	99.77	4.02	4.02	-1025.97	491.83	-88.82	8.99
5.24	14	SLE Q	2	99.77	4.02	4.02	-891.28	427.26	-77.16	7.81
6.17	10	SLE R	2	0.00	4.02	4.02	204.44	-10.43	96.41	1.26
6.17	14	SLE Q	2	0.00	4.02	4.02	180.10	-9.19	84.93	1.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
28	1.99	14	SLE Q	1	21	229.43	1133.91	33.00	218.00	0.50	16.00	381.33	4.02	307.50	534.71	0.16	0.10
32	1.99	12	SLE F	1	21	229.43	1156.99	33.00	218.00	0.50	16.00	381.33	4.02	307.50	545.60	0.16	0.10
52	4.05	14	SLE Q	1	21	9.80	-1831.89	33.00	518.00	0.50	16.00	359.82	4.02	615.00	878.17	0.26	0.16
54	4.05	12	SLE F	1	21	9.80	-1861.79	33.00	518.00	0.50	16.00	359.82	4.02	615.00	892.50	0.26	0.16
81	5.24	14	SLE Q	2	21	99.77	-891.28	33.00	518.00	0.50	16.00	359.82	4.02	615.00	427.26	0.12	0.08
85	5.24	12	SLE F	2	21	99.77	-906.68	33.00	518.00	0.50	16.00	359.82	4.02	615.00	434.64	0.13	0.08
104	6.17	14	SLE Q	2	21	0.00	180.10	33.00	218.00	0.50	16.00	381.33	4.02	307.50	84.93	0.02	0.02
106	6.17	12	SLE F	2	21	0.00	180.56	33.00	218.00	0.50	16.00	381.33	4.02	307.50	85.15	0.02	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.
7 SLU	0.32	0.89	0.60	ø8/20 2 br.	5.03	0.30	6384.63	2.50	24189.10	29590.40	24189.10	3.789
7 SLU	0.89	3.56	2.79	ø8/20 2 br.	5.03	0.30	4621.76	2.50	24189.10	29590.40	24189.10	5.234
7 SLU	3.56	4.13	0.60	ø8/20 2 br.	5.03	0.30	5059.92	2.50	24189.10	29590.40	24189.10	4.781
7 SLU	4.43	5.00	0.60	ø8/20 2 br.	5.03	0.30	3162.27	2.50	24189.10	29590.40	24189.10	7.649
7 SLU	5.00	5.71	0.74	ø8/20 2 br.	5.03	0.30	1847.07	2.50	24189.10	29590.40	24189.10	13.096
1 SLV	5.71	6.28	0.60	ø8/20 2 br.	5.03	0.30	964.01	2.50	24189.10	29590.40	24189.10	25.092

Travata n. 1102

Nodi: 122 46 -980 51

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>
21	L	60.00	30.00	20.00	40.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
2.74	7	SLU	1	157.72	4.02	4.02	4.02	4.02	7615.35	9894.11	1.299
6.02	7	SLU	3	15.97	8.04	4.02	8.04	4.02	-7826.57	-18721.70	2.392

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>
2.74	10	SLE R	1	157.72	4.02	4.02	5735.83	-292.52	2704.82	35.32
2.74	14	SLE Q	1	157.72	4.02	4.02	4942.81	-252.08	2330.86	30.43
6.02	10	SLE R	3	15.97	8.04	4.02	-5896.26	1447.45	-449.93	40.01
6.02	14	SLE Q	3	15.97	8.04	4.02	-5090.15	1249.56	-388.42	34.54

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	2.74	14	SLE Q	1	21	157.72	4942.81	33.00	218.00	0.50	16.00	381.33	4.02	307.50	2330.86	0.78	0.51
17	2.74	12	SLE F	1	21	157.72	5044.94	33.00	218.00	0.50	16.00	381.33	4.02	307.50	2379.02	0.69	0.45
33	6.02	14	SLE Q	3	21	15.97	-5090.15	33.00	172.67	0.50	16.00	188.35	8.04	615.00	1249.56	0.36	0.12
35	6.02	12	SLE F	3	21	15.97	-5197.81	33.00	172.67	0.50	16.00	188.35	8.04	615.00	1275.99	0.37	0.12

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	-0.04	0.54	0.60	ø8/20 2 br.	5.03	0.30	11082.20	2.50	24189.10	29590.40	24189.10	2.183
7 SLU	0.54	3.69	3.30	ø8/20 2 br.	5.03	0.30	9345.24	2.50	24189.10	29590.40	24189.10	2.588
7 SLU	3.69	4.26	0.60	ø8/20 2 br.	5.03	0.30	3855.10	2.50	24189.10	29590.40	24189.10	6.275
7 SLU	4.60	5.91	1.38	ø8/20 2 br.	5.03	0.30	8686.12	2.50	24189.10	29590.40	24189.10	2.785

Travata n. 3021

Nodi: 327 219

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>
24	R	67.50	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
4.25	7	SLU	1	439.64	3.14	3.14	3.14	3.14	-1540.57	-2381.04	1.546

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>
4.25	10	SLE R	1	439.64	3.14	3.14	-1169.89	2559.28	6.59	58.69
4.25	14	SLE Q	1	439.64	3.14	3.14	-1072.10	2345.34	6.04	53.78

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>
15	4.25	14	SLE Q	1	24	439.64	-1072.10	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2345.34	0.68	0.22
17	4.25	12	SLE F	1	24	439.64	-1084.76	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2373.04	0.69	0.22

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.
7 SLU	0.03	4.08	4.19	ø6/15 4 br.	7.54	0.68	1953.64	2.50	10320.40	18937.30	10320.40	5.283
7 SLU	4.08	4.28	0.20	ø6/15 4 br.	7.54	0.68	1632.58	2.50	10320.40	18937.30	10320.40	6.322

Travata n. 3022

Nodi: 216 327

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>
24	R	67.50	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.17	7	SLU	1	18.10	3.14	3.14	3.14	3.14	-1483.12	-2381.04	1.605

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>
0.17	10	SLE R	1	18.10	3.14	3.14	-1125.57	2462.30	6.34	56.47
0.17	14	SLE Q	1	18.10	3.14	3.14	-1026.85	2246.35	5.79	51.51

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	0.17	14	SLE Q	1	24	18.10	-1026.85	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2246.35	0.65	0.21
17	0.17	12	SLE F	1	24	18.10	-1039.63	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2274.31	0.66	0.21

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.
7 SLU	0.15	0.34	0.20	ø6/15 4 br.	7.54	0.68	1607.54	2.50	10320.40	18937.30	10320.40	6.420
7 SLU	0.34	4.22	4.01	ø6/15 4 br.	7.54	0.68	1898.85	2.50	10320.40	18937.30	10320.40	5.435

Travata n. 3023

Nodi: 326 216

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>
24	R	67.50	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
4.00	7	SLU	1	414.27	3.14	3.14	3.14	3.14	-1195.39	-2381.04	1.992

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>
4.00	10	SLE R	1	414.27	3.14	3.14	-908.24	1986.87	5.12	45.56
4.00	14	SLE Q	1	414.27	3.14	3.14	-832.57	1821.33	4.69	41.77

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>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	4.00	14	SLE Q	1	24	414.27	-832.57	36.00	201.00	0.50	10.00	186.09	3.14	358.44	1821.33	0.53	0.17
17	4.00	12	SLE F	1	24	414.27	-842.50	36.00	201.00	0.50	10.00	186.09	3.14	358.44	1843.07	0.54	0.17

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	0.03	3.83	3.94	ø6/15 4 br.	7.54	0.68	1939.89	2.50	10320.40	18937.30	10320.40	5.320
7 SLU	3.83	4.03	0.20	ø6/15 4 br.	7.54	0.68	1501.67	2.50	10320.40	18937.30	10320.40	6.873

Travata n. 3024

Nodi: 214 326

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>
24	R	67.50	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	7	SLU	1	0.00	3.14	3.14	3.14	3.14	-1457.80	-2381.04	1.633

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	10	SLE R	1	0.00	3.14	3.14	-1107.50	2422.78	6.24	55.56
0.00	14	SLE Q	1	0.00	3.14	3.14	-1017.13	2225.09	5.73	51.03

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>
15	0.00	14	SLE Q	1	24	0.00	-1017.13	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2225.09	0.65	0.21
17	0.00	12	SLE F	1	24	0.00	-1028.90	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2250.83	0.66	0.21

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.
7 SLU	-0.03	0.17	0.20	ø6/15 4 br.	7.54	0.68	1577.59	2.50	10320.40	18937.30	10320.40	6.542
7 SLU	0.17	4.15	4.12	ø6/15 4 br.	7.54	0.68	1943.84	2.50	10320.40	18937.30	10320.40	5.309

Travata n. 3051

Nodi: 329 231

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>
24	R	67.50	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
4.25	7	SLU	1	439.64	4.68	3.14	4.68	3.14	-1881.43	-3234.09	1.719

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>
4.25	10	SLE R	1	439.64	4.68	3.14	-1428.25	2144.44	-120.73	60.52
4.25	14	SLE Q	1	439.64	4.68	3.14	-1299.19	1950.67	-109.82	55.05

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/cmq>	ε_{sm}	Wk <mm>
15	4.25	14	SLE Q	1	24	439.64	-1299.19	35.60	150.75	0.50	11.04	152.22	4.68	343.60	1950.67	0.61	0.16
17	4.25	12	SLE F	1	24	439.64	-1316.09	35.60	150.75	0.50	11.04	152.22	4.68	343.60	1976.04	0.58	0.15

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.
7 SLU	0.03	4.08	4.19	ø6/15 4 br.	7.54	0.68	1939.26	2.50	10320.40	18937.30	10320.40	5.322
7 SLU	4.08	4.28	0.20	ø6/15 4 br.	7.54	0.68	1768.78	2.50	10320.40	18937.30	10320.40	5.835

Travata n. 3052

Nodi: 229 329

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>
24	R	67.50	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.17	1	SLV	1	18.10	3.14	3.14	3.14	3.14	-1559.64	-2381.04	1.527

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>
0.17	10	SLE R	1	18.10	3.14	3.14	-1162.23	2542.52	6.55	58.31
0.17	14	SLE Q	1	18.10	3.14	3.14	-1058.70	2316.03	5.97	53.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	0.17	14	SLE Q	1	24	18.10	-1058.70	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2316.03	0.67	0.21
17	0.17	12	SLE F	1	24	18.10	-1072.22	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2345.60	0.68	0.22

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.
7 SLU	0.15	0.34	0.20	ø6/15 4 br.	7.54	0.68	1679.88	2.50	10320.40	18937.30	10320.40	6.144
7 SLU	0.34	4.22	4.01	ø6/15 4 br.	7.54	0.68	1948.13	2.50	10320.40	18937.30	10320.40	5.298

Travata n. 3053

Nodi: 328 229

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>
24	R	67.50	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
4.00	1	SLV	1	414.27	3.14	3.14	3.14	3.14	-1544.57	-2381.04	1.542

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>
4.00	10	SLE R	1	414.27	3.14	3.14	-1041.89	2279.25	5.87	52.27
4.00	14	SLE Q	1	414.27	3.14	3.14	-946.83	2071.29	5.34	47.50

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	4.00	14	SLE Q	1	24	414.27	-946.83	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2071.29	0.60	0.19
17	4.00	12	SLE F	1	24	414.27	-959.26	36.00	201.00	0.50	10.00	186.09	3.14	358.44	2098.50	0.61	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.
7 SLU	0.03	3.83	3.94	ø6/15 4 br.	7.54	0.68	2008.76	2.50	10320.40	18937.30	10320.40	5.138
7 SLU	3.83	4.03	0.20	ø6/15 4 br.	7.54	0.68	1552.17	2.50	10320.40	18937.30	10320.40	6.649

Travata n. 3054

Nodi: 232 328

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>
24	R	67.50	20.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	3	SLV	1	0.00	3.14	3.14	3.14	3.14	-647.38	-2381.04	3.678

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	10	SLE R	1	0.00	3.14	3.14	-426.58	933.20	2.40	21.40
0.00	14	SLE Q	1	0.00	3.14	3.14	-405.58	887.25	2.29	20.35

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	0.00	14	SLE Q	1	24	0.00	-405.58	36.00	201.00	0.50	10.00	186.09	3.14	358.44	887.25	0.26	0.08
17	0.00	12	SLE F	1	24	0.00	-408.29	36.00	201.00	0.50	10.00	186.09	3.14	358.44	893.18	0.26	0.08

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	-0.03	0.17	0.20	ø6/15 4 br.	7.54	0.68	1377.33	2.50	10320.40	18937.30	10320.40	7.493
7 SLU	0.17	4.15	4.12	ø6/15 4 br.	7.54	0.68	2263.70	2.50	10320.40	18937.30	10320.40	4.559

Travata n. 3121

Nodi: -1047 232

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>
23	L	60.00	35.00	20.00	45.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
3.15	3	SLV	1	331.32	5.09	5.09	5.09	5.09	2475.57	13483.60	5.447

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>
3.15	10	SLE R	1	331.32	5.09	5.09	1550.60	-68.30	531.68	7.44
3.15	14	SLE Q	1	331.32	5.09	5.09	1427.41	-62.87	489.44	6.85

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
18	3.15	14	SLE Q	1	23	331.32	1427.41	32.00	266.00	0.50	18.00	408.26	5.09	358.75	489.44	0.14	0.10
20	3.15	12	SLE F	1	23	331.32	1443.42	32.00	266.00	0.50	18.00	408.26	5.09	358.75	494.93	0.14	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.
3 SLV	-0.03	2.65	2.82	ø8/20 2 br.	5.03	0.35	2635.32	2.50	26352.70	37609.90	26352.70	10.000
3 SLV	2.65	3.26	0.65	ø8/20 2 br.	5.03	0.35	2965.23	2.50	26352.70	37609.90	26352.70	8.887

Travata n. 3122

Nodi: 214 323 -1047

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>
23	L	60.00	35.00	20.00	45.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.15	3	SLV	1	15.89	5.09	5.09	5.09	5.09	-1600.18	-13199.00	8.248
1.93	3	SLV	1	203.88	5.09	5.09	5.09	5.09	-2496.67	-13199.00	5.287
2.52	7	SLU	2	0.00	5.09	5.09	5.09	5.09	-5602.89	-13199.00	2.356

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>
0.15	8	SLE R	1	15.89	5.09	5.09	-349.08	121.18	-22.61	2.20
0.15	14	SLE Q	1	15.89	5.09	5.09	-359.73	124.88	-23.30	2.27
1.93	10	SLE R	1	203.88	5.09	5.09	-1743.46	605.23	-112.94	10.99
1.93	14	SLE Q	1	203.88	5.09	5.09	-1600.87	555.73	-103.70	10.09
2.52	10	SLE R	2	0.00	5.09	5.09	-4252.66	1476.28	-275.49	26.80
2.52	14	SLE Q	2	0.00	5.09	5.09	-3874.52	1345.01	-250.99	24.41

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
16	0.15	14	SLE Q	1	23	15.89	-359.73	32.00	516.00	0.50	18.00	389.76	5.09	615.00	124.88	0.04	0.02
19	0.15	13	SLE F	1	23	15.89	-359.73	32.00	516.00	0.50	18.00	389.76	5.09	615.00	124.88	0.04	0.02
34	1.93	14	SLE Q	1	23	203.88	-1600.87	32.00	516.00	0.50	18.00	389.76	5.09	615.00	555.73	0.16	0.11
36	1.93	12	SLE F	1	23	203.88	-1619.94	32.00	516.00	0.50	18.00	389.76	5.09	615.00	562.35	0.16	0.11
65	2.52	14	SLE Q	2	23	0.00	-3874.52	32.00	516.00	0.50	18.00	389.76	5.09	615.00	1345.01	0.39	0.26
69	2.52	12	SLE F	2	23	0.00	-3922.69	32.00	516.00	0.50	18.00	389.76	5.09	615.00	1361.73	0.40	0.26

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.
3 SLV	0.03	1.80	1.88	ø8/20 2 br.	5.03	0.35	2526.71	2.50	26352.70	37609.90	26352.70	10.430
7 SLU	2.62	3.27	0.68	ø8/20 2 br.	5.03	0.35	11424.90	2.50	26352.70	37609.90	26352.70	2.307

Travata n. 3123

Nodi: 101 214

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>
25	L	60.00	30.00	20.00	30.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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	3	SLV	1	0.00	2.26	2.26	2.26	2.26	-1227.81	-4533.56	3.692
1.31	3	SLV	1	150.47	2.26	2.26	2.26	2.26	1505.90	4775.73	3.171

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	8	SLE R	1	0.00	2.26	2.26	-271.92	280.34	-33.91	4.32
-0.00	14	SLE Q	1	0.00	2.26	2.26	-276.26	284.82	-34.45	4.38
1.31	8	SLE R	1	150.47	2.26	2.26	987.66	-60.25	1000.90	10.96
1.31	14	SLE Q	1	150.47	2.26	2.26	987.23	-60.23	1000.46	10.95

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>
24	-0.00	14	SLE Q	1	25	0.00	-276.26	35.00	522.00	0.50	12.00	396.27	2.26	615.00	284.82	0.08	0.06
30	-0.00	13	SLE F	1	25	0.00	-276.26	35.00	522.00	0.50	12.00	396.27	2.26	615.00	284.82	0.08	0.06
47	1.31	14	SLE Q	1	25	150.47	987.23	35.00	222.00	0.50	12.00	326.45	2.26	307.50	1000.46	0.29	0.16
48	1.31	11	SLE F	1	25	150.47	987.61	35.00	222.00	0.50	12.00	326.45	2.26	307.50	1000.84	0.29	0.16

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.
5 SLU	-0.11	0.36	0.50	ø8/20 2 br.	5.03	0.30	1327.21	2.50	19861.90	24296.90	19861.90	14.965
7 SLU	0.36	4.20	4.13	ø8/20 2 br.	5.03	0.30	1398.91	2.50	19861.90	24296.90	19861.90	14.198
7 SLU	4.20	4.67	0.50	ø8/20 2 br.	5.03	0.30	1692.60	2.50	19861.90	24296.90	19861.90	11.735

Travata n. 3131

Nodi: -1049 229

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>
20	T	135.00	35.00	20.00	45.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
3.15	3	SLV	1	331.32	9.05	9.05	9.05	9.05	-5987.28	-23098.40	3.858

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>
3.15	10	SLE R	1	331.32	9.05	9.05	-2607.48	515.60	-136.63	12.25
3.15	10	SLE R	1	331.32	9.05	9.05	3530.15	-72.57	677.32	8.45
3.15	14	SLE Q	1	331.32	9.05	9.05	-2433.61	481.22	-127.52	11.43

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
28	3.15	14	SLE Q	1	20	331.32	3129.81	29.00	256.00	0.50	24.00	415.52	9.05	358.75	600.51	0.17	0.12
32	3.15	12	SLE F	1	20	331.32	3186.74	29.00	256.00	0.50	24.00	415.52	9.05	358.75	611.43	0.18	0.13

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.
7 SLU	-0.01	2.67	2.82	ø10/20 4 br.	15.71	0.35	11027.30	1.52	50077.10	50077.10	50077.10	4.541
7 SLU	2.67	3.28	0.65	ø10/20 4 br.	15.71	0.35	11740.80	1.52	50077.10	50077.10	50077.10	4.265

Travata n. 3132

Nodi: 216 -1049

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>
20	T	135.00	35.00	20.00	45.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.15	3	SLV	1	15.89	9.05	9.05	9.05	9.05	-10502.60	-23098.40	2.199

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>
0.15	10	SLE R	1	15.89	9.05	9.05	-7626.72	1508.10	-399.63	35.82
0.15	14	SLE Q	1	15.89	9.05	9.05	-6947.70	1373.84	-364.05	32.63

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/cmq>	ε_{sm}	Wk <mm>
18	0.15	14	SLE Q	1	20	15.89	-6947.70	29.00	1256.00	0.50	24.00	425.05	9.05	1383.75	1373.84	0.40	0.29
20	0.15	12	SLE F	1	20	15.89	-7034.14	29.00	1256.00	0.50	24.00	425.05	9.05	1383.75	1390.93	0.41	0.29

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.
7 SLU	0.01	0.62	0.65	ø10/20 4 br.	15.71	0.35	13687.10	1.52	50077.10	50077.10	50077.10	3.659
7 SLU	0.62	3.24	2.78	ø10/20 4 br.	15.71	0.35	13036.80	1.52	50077.10	50077.10	50077.10	3.841

Travata n. 3141

Nodi: 324 325 231

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>
23	L	60.00	35.00	20.00	45.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.15	1	SLV	1	147.25	2.26	2.26	2.26	2.26	909.08	6268.58	6.896
0.33	1	SLV	1	127.97	2.26	2.26	2.26	2.26	909.82	6268.58	6.890
1.45	1	SLV	1	10.52	2.26	2.26	2.26	2.26	-1369.34	-6075.15	4.437
1.65	3	SLV	2	189.33	2.26	2.26	2.26	2.26	2546.65	6268.58	2.462
2.55	3	SLV	2	94.66	2.26	2.26	2.26	2.26	5670.14	6268.58	1.106
3.15	3	SLV	2	31.55	2.26	2.26	2.26	2.26	5670.14	6268.58	1.106

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>
0.15	10	SLE R	1	147.25	2.26	2.26	480.55	-23.33	364.46	3.42
0.15	14	SLE Q	1	147.25	2.26	2.26	429.53	-20.85	325.76	3.06
0.33	10	SLE R	1	127.97	2.26	2.26	480.55	-23.33	364.46	3.42
0.33	14	SLE Q	1	127.97	2.26	2.26	429.53	-20.85	325.76	3.06
1.45	10	SLE R	1	10.52	2.26	2.26	-452.16	346.75	-36.08	4.25
1.45	14	SLE Q	1	10.52	2.26	2.26	-387.47	297.13	-30.92	3.64
1.65	10	SLE R	2	189.33	2.26	2.26	533.56	-25.90	404.66	3.80
1.65	14	SLE Q	2	189.33	2.26	2.26	498.46	-24.20	378.04	3.55
2.55	10	SLE R	2	94.66	2.26	2.26	765.92	-37.19	580.89	5.45
2.55	14	SLE Q	2	94.66	2.26	2.26	678.54	-32.94	514.61	4.83
3.15	10	SLE R	2	31.55	2.26	2.26	765.92	-37.19	580.89	5.45
3.15	14	SLE Q	2	31.55	2.26	2.26	678.54	-32.94	514.61	4.83

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>
19	0.15	14	SLE Q	1	23	147.25	429.53	35.00	272.00	0.50	12.00	431.12	2.26	358.75	325.76	0.09	0.07
21	0.15	12	SLE F	1	23	147.25	436.25	35.00	272.00	0.50	12.00	431.12	2.26	358.75	330.86	0.10	0.07
41	0.33	14	SLE Q	1	23	127.97	429.53	35.00	272.00	0.50	12.00	431.12	2.26	358.75	325.76	0.09	0.07
43	0.33	12	SLE F	1	23	127.97	436.25	35.00	272.00	0.50	12.00	431.12	2.26	358.75	330.86	0.10	0.07
66	1.45	14	SLE Q	1	23	10.52	-387.47	35.00	522.00	0.50	12.00	416.60	2.26	615.00	297.13	0.09	0.06
70	1.45	12	SLE F	1	23	10.52	-396.60	35.00	522.00	0.50	12.00	416.60	2.26	615.00	304.14	0.09	0.06
96	1.65	14	SLE Q	2	23	189.33	498.46	35.00	272.00	0.50	12.00	431.12	2.26	358.75	378.04	0.11	0.08
98	1.65	11	SLE F	2	23	189.33	502.93	35.00	272.00	0.50	12.00	431.12	2.26	358.75	381.43	0.11	0.08
120	2.55	14	SLE Q	2	23	94.66	678.54	35.00	272.00	0.50	12.00	431.12	2.26	358.75	514.61	0.15	0.11
122	2.55	12	SLE F	2	23	94.66	689.42	35.00	272.00	0.50	12.00	431.12	2.26	358.75	522.86	0.15	0.11
139	3.15	14	SLE Q	2	23	31.55	678.54	35.00	272.00	0.50	12.00	431.12	2.26	358.75	514.61	0.15	0.11
141	3.15	12	SLE F	2	23	31.55	689.42	35.00	272.00	0.50	12.00	431.12	2.26	358.75	522.86	0.15	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.
3 SLV	0.26	1.46	1.26	ø8/20 2 br.	5.03	0.35	1924.60	2.50	26352.70	37609.90	26352.70	13.693
3 SLV	1.76	3.26	1.58	ø8/20 2 br.	5.03	0.35	4296.05	2.50	26352.70	37609.90	26352.70	6.134

Travata n. 3142

Nodi: 219 320 324

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>
23	L	60.00	35.00	20.00	45.00	4.10	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

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.
0.15	3	SLV	1	161.51	2.26	2.26	2.26	2.26	2281.36	6268.58	2.748
1.57	3	SLV	1	10.59	2.26	2.26	2.26	2.26	1657.64	6268.58	3.782
1.77	1	SLV	2	153.57	2.26	2.26	2.26	2.26	1112.05	6268.58	5.637
3.08	1	SLV	2	15.89	2.26	2.26	2.26	2.26	1030.72	6268.58	6.082

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>
0.15	10	SLE R	1	161.51	2.26	2.26	422.58	-20.52	320.49	3.01
0.15	14	SLE Q	1	161.51	2.26	2.26	388.96	-18.88	294.99	2.77
1.57	10	SLE R	1	10.59	2.26	2.26	413.06	-20.05	313.27	2.94
1.57	14	SLE Q	1	10.59	2.26	2.26	385.66	-18.72	292.49	2.75
1.77	10	SLE R	2	153.57	2.26	2.26	489.32	-23.76	371.11	3.48
1.77	14	SLE Q	2	153.57	2.26	2.26	454.51	-22.07	344.70	3.24
3.08	10	SLE R	2	15.89	2.26	2.26	515.58	-25.03	391.03	3.67
3.08	14	SLE Q	2	15.89	2.26	2.26	473.48	-22.99	359.10	3.37

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>
16	0.15	14	SLE Q	1	23	161.51	388.96	35.00	272.00	0.50	12.00	431.12	2.26	358.75	294.99	0.09	0.06
18	0.15	12	SLE F	1	23	161.51	393.63	35.00	272.00	0.50	12.00	431.12	2.26	358.75	298.54	0.09	0.06
36	1.57	14	SLE Q	1	23	10.59	385.66	35.00	272.00	0.50	12.00	431.12	2.26	358.75	292.49	0.09	0.06
38	1.57	12	SLE F	1	23	10.59	389.31	35.00	272.00	0.50	12.00	431.12	2.26	358.75	295.26	0.09	0.06
57	1.77	14	SLE Q	2	23	153.57	454.51	35.00	272.00	0.50	12.00	431.12	2.26	358.75	344.70	0.10	0.07
59	1.77	12	SLE F	2	23	153.57	458.71	35.00	272.00	0.50	12.00	431.12	2.26	358.75	347.89	0.10	0.07
78	3.08	14	SLE Q	2	23	15.89	473.48	35.00	272.00	0.50	12.00	431.12	2.26	358.75	359.10	0.10	0.08
80	3.08	12	SLE F	2	23	15.89	478.75	35.00	272.00	0.50	12.00	431.12	2.26	358.75	363.10	0.11	0.08

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3 SLV	0.03	1.45	1.51	ø8/20 2 br.	5.03	0.35	1805.76	2.50	26352.70	37609.90	26352.70	14.594
3 SLV	1.77	2.95	1.26	ø8/20 2 br.	5.03	0.35	1787.98	2.50	26352.70	37609.90	26352.70	14.739

Verifiche e armature pilastri

Simbologia

Δ_{sm} = Distanza media tra le fessure
Φ_{eq} = Diametro equivalente delle barre
α = Angolo asse neutro a rottura
ε_Y = Deformazione nell'acciaio (*1000)
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
$\mu\Phi$ = Valore di progetto della duttilità di curvatura
σ_c = Tensione nel calcestruzzo
σ_f = Tensione nel ferro
σ_{nc} = Azione agente di compressione diagonale (C8.7.2.12)
$\sigma_{nc}R$ = Resistenza a compressione diagonale (C8.7.2.12)
σ_{nt} = Azione agente di trazione diagonale (C8.7.2.11)
$\sigma_{nt}R$ = Resistenza a trazione diagonale (C8.7.2.11)
σ_s = Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
AfC = Area di ferro compressa
AfT = Area di ferro tesa
As1 = Area di ferro superiore delle travi incidenti sulla faccia
As2 = Area di ferro inferiore delle travi incidenti sulla faccia
Ash = Area totale della sezione della staffa
B = Base
Bj = Larghezza effettiva utile del nodo
Br_y = Numero bracci in dir. Y locale
Br_z = Numero bracci in dir. Z locale
Br. = Numero bracci
CC = Numero della combinazione delle condizioni di carico elementari
Cf = Copriferro
Cls = Tipo di calcestruzzo
Conf. = Nodo confinato
  S = Sì
  N = No
El = Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
F = Identificativo faccia del nodo
  Y+ = Faccia sul lato positivo Y locale pilastro
  Z+ = Faccia sul lato positivo Z locale pilastro
  Y- = Faccia sul lato negativo Y locale pilastro
  Z- = Faccia sul lato negativo Z locale pilastro
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
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
Hjc = Distanza tra armature pilastro

Hjw = Distanza tra armature trave
In = Identificativo della pilastrata facente parte dell'inviluppo
K_2 = Coefficiente per distribuzione deformazioni
M = Momento flettente
M'ydy = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
M'ydz = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Z
MRd = Momento resistente allo stato limite ultimo
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
MRdz = Momento resistente allo stato limite ultimo intorno all'asse Z
Mod. = Modalità di verifica faccia
I = Interna
E = Esterna
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
Nodo = Numero del nodo
Nu = Sforzo normale ultimo
Sez. = Numero della sezione
Sic. = Sicurezza
Staff. = Staffatura adottata
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tipo = Tipologia
2Cdx = Doppia C lato costola
L = Sezione a L
R = Rettangolare
T = Sezione a T
Cs = C stondata
Is = I stondata
Tp = Tipo di acciaio
$VRcd,_y$ = Taglio ultimo lato calcestruzzo in dir. Y
$VRcd,_z$ = Taglio ultimo lato calcestruzzo in dir. Z
$VRsd,_y$ = Taglio ultimo lato armatura in dir. Y
$VRsd,_z$ = Taglio ultimo lato armatura in dir. Z
Vc_Y = Taglio in dir. Y locale nel pilastro al di sopra del nodo
Vc_Z = Taglio in dir. Z locale nel pilastro al di sopra del nodo
Vn = Taglio totale agente sul nodo in valore assoluto
$Vrd,_y$ = Taglio resistente in dir. Y
$Vrd,_z$ = Taglio resistente in dir. Z
$Vsdu,_y$ = Taglio agente in dir. Y
$Vsdu,_z$ = Taglio agente in dir. Z
Vt_Y = Effetto armature travi in dir. Y locale del pilastro
Vt_Z = Effetto armature travi in dir. Z locale del pilastro
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
$ctg\theta,_y$ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Y
$ctg\theta,_z$ = 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
s = Distanza massima tra le barre

Pilastrata n. 2

Nodi: 45 145

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.20	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	1	0.00	143.10	-264.11	-264.11	568.12	568.12	143.10	-2353.76	5049.14	106.88	8.38	8.892
0.00	3	SLV	1	1	0.00	143.10	-264.11	-264.11	568.12	568.12	143.10	-2353.76	5049.14	106.88	8.38	8.892
3.55	3	SLV	1	1	354.70	941.18	328.67	328.67	-506.90	-506.90	941.18	3196.67	-4786.88	298.12	6.93	9.528

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	10	SLE R	1	1	0.00	-4633.43	57.68	-10.90	0.00	10.18	5.61	78.97
0.00	8	SLE R	1	1	0.00	-4314.18	52.09	-16.20	0.00	10.18	5.30	74.37
0.00	14	SLE Q	1	1	0.00	-4229.45	50.02	-17.70	0.00	10.18	5.21	73.06
0.00	10	SLE R	1	1	0.00	-4633.43	57.68	-10.90	0.00	10.18	5.61	78.97

0.00	8	SLE R	1	1	0.00	-4314.18	52.09	-16.20	0.00	10.18	5.30	74.37
0.00	14	SLE Q	1	1	0.00	-4229.45	50.02	-17.70	0.00	10.18	5.21	73.06
3.55	10	SLE R	1	1	354.70	-3835.35	-60.72	72.96	0.00	10.18	6.00	79.90
3.55	8	SLE R	1	1	354.70	-3516.10	-54.77	76.88	0.00	10.18	5.66	74.96
3.55	14	SLE Q	1	1	354.70	-3431.37	-52.57	77.77	0.00	10.18	5.56	73.51

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.59	ø8/20	2	2	5	SLU	0.30	0.26	39.47	2.50	11077.60	14296.20	11077.60	0.30	0.26	33.97	2.50	11077.60	14296.20	11077.60	>100
0.00	0.59	ø8/20	2	2	7	SLU	0.30	0.26	44.35	2.50	11077.60	14359.60	11077.60	0.30	0.26	30.07	2.50	11077.60	14359.60	11077.60	>100
0.00	0.59	ø8/20	2	2	1	SLV	0.30	0.26	166.97	2.50	11077.60	14390.90	11077.60	0.30	0.26	266.92	2.50	11077.60	14390.90	11077.60	41.502
0.00	0.59	ø8/20	2	2	3	SLV	0.30	0.26	302.85	2.50	11077.60	14690.30	11077.60	0.30	0.26	165.76	2.50	11077.60	14690.30	11077.60	36.578
0.59	2.96	ø8/20	2	2	5	SLU	0.30	0.26	39.47	2.50	11077.60	14273.30	11077.60	0.30	0.26	33.97	2.50	11077.60	14273.30	11077.60	>100
0.59	2.96	ø8/20	2	2	7	SLU	0.30	0.26	44.35	2.50	11077.60	14336.70	11077.60	0.30	0.26	30.07	2.50	11077.60	14336.70	11077.60	>100
0.59	2.96	ø8/20	2	2	1	SLV	0.30	0.26	166.97	2.50	11077.60	14373.30	11077.60	0.30	0.26	266.92	2.50	11077.60	14373.30	11077.60	41.502
0.59	2.96	ø8/20	2	2	3	SLV	0.30	0.26	302.85	2.50	11077.60	14672.60	11077.60	0.30	0.26	165.76	2.50	11077.60	14672.60	11077.60	36.578
2.96	3.55	ø8/20	2	2	5	SLU	0.30	0.26	39.47	2.50	11077.60	14181.70	11077.60	0.30	0.26	33.97	2.50	11077.60	14181.70	11077.60	>100
2.96	3.55	ø8/20	2	2	7	SLU	0.30	0.26	44.35	2.50	11077.60	14245.10	11077.60	0.30	0.26	30.07	2.50	11077.60	14245.10	11077.60	>100
2.96	3.55	ø8/20	2	2	1	SLV	0.30	0.26	166.97	2.50	11077.60	14302.90	11077.60	0.30	0.26	266.92	2.50	11077.60	14302.90	11077.60	41.502
2.96	3.55	ø8/20	2	2	3	SLV	0.30	0.26	302.85	2.50	11077.60	14602.20	11077.60	0.30	0.26	165.76	2.50	11077.60	14602.20	11077.60	36.578

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
145	3	SLV	0.00	0.00	-2739.21	0.00	-1838.32	3298.89	3.67	56.86	3.67	10.12

Pilastrata n. 4

Nodi: 38 -642 138

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>
2	R	20.00	35.00	4.00	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3(e)	SLV	1	2	0.00	-7787.48	-4033.06	-4033.06	102.24	155.75	-7787.48	-4924.20	231.84	174.38	13.13	1.221
0.00	3(e)	SLV	1	2	0.00	-7787.48	-4033.06	-4033.06	102.24	155.75	-7787.48	-4924.20	231.84	174.38	13.13	1.221
2.50	1(e)	SLV	1	2	250.00	-7883.55	117.19	157.67	93.96	157.67	-77607.80	2365.77	2364.78	76.64	5.53	9.844
2.90	1	SLV	2	2	0.00	-6599.52	537.33	537.33	-813.09	-813.09	-6599.52	1595.70	-2381.22	277.73	6.76	2.941
3.80	7(e)	SLU	2	2	90.00	-10547.30	46.99	-210.94	1687.28	1687.28	-10547.30	-325.26	2681.13	91.05	8.03	1.588

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	10	SLE R	1	2	0.00	-9311.39	18.85	-43.37	0.00	6.16	13.32	192.45
0.00	8	SLE R	1	2	0.00	-8285.64	14.31	-43.28	0.00	6.16	11.86	171.50
0.00	14	SLE Q	1	2	0.00	-8011.76	13.11	-40.76	0.00	6.16	11.42	165.34
0.00	10	SLE R	1	2	0.00	-9311.39	18.85	-43.37	0.00	6.16	13.32	192.45
0.00	8	SLE R	1	2	0.00	-8285.64	14.31	-43.28	0.00	6.16	11.86	171.50
0.00	14	SLE Q	1	2	0.00	-8011.76	13.11	-40.76	0.00	6.16	11.42	165.34
2.50	10	SLE R	1	2	250.00	-8873.89	-28.88	29.62	0.00	6.16	12.88	184.38
2.50	8	SLE R	1	2	250.00	-7848.14	-21.55	27.72	0.00	6.16	11.27	162.08
2.50	14	SLE Q	1	2	250.00	-7574.26	-19.62	27.32	0.00	6.16	10.84	156.16
2.90	10	SLE R	2	2	0.00	-8066.64	-564.22	49.48	3.08	3.08	38.52	377.61
2.90	14	SLE Q	2	2	0.00	-6739.86	-478.75	44.87	3.08	3.08	32.84	319.86
3.80	10	SLE R	2	2	90.00	-7909.14	1265.59	35.74	3.08	3.08	91.75	1682.14
3.80	14	SLE Q	2	2	90.00	-6582.36	1055.38	33.32	3.08	3.08	76.66	1406.40

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>
3.80	14	SLE Q	2	2	90.00	-6582.36	33.32	1055.38	34.00	268.00	0.50	14.00	134.91	3.08	147.14	1406.40	0.45	0.10
3.80	12	SLE F	2	2	90.00	-6694.12	33.57	1073.18	34.00	268.00	0.50	14.00	134.92	3.08	147.17	1429.85	0.42	0.10

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø8/20	2	2	7	SLU	0.35	0.16	26.03	2.50	6750.44	11130.60	6750.44	0.20	0.31	38.56	2.41	12789.80	12789.80	12789.80	>100
0.00	0.45	ø8/20	2	2	3	SLV	0.35	0.16	82.42	2.50	6750.44	10630.90	6750.44	0.20	0.31	1551.39	2.35	12448.90	12448.90	12448.90	8.024
0.00	0.45	ø8/20	2	2	1	SLV	0.35	0.16	106.82	2.50	6750.44	10641.20	6750.44	0.20	0.31	760.69	2.35	12456.00	12456.00	12456.00	16.375
0.45	2.05	ø8/20	2	2	7	SLU	0.35	0.16	26.03	2.50	6750.44	11118.20	6750.44	0.20	0.31	38.56	2.41	12781.40	12781.40	12781.40	>100
0.45	2.05	ø8/20	2	2	3	SLV	0.35	0.16	82.42	2.50	6750.44	10621.40	6750.44	0.20	0.31	1551.39	2.35	12442.30	12442.30	12442.30	8.020
0.45	2.05	ø8/20	2	2	1	SLV	0.35	0.16	106.82	2.50	6750.44	10631.70	6750.44	0.20	0.31	760.69	2.35	12449.40	12449.40	12449.40	16.366
2.05	2.50	ø8/20	2	2	7	SLU	0.35	0.16	26.03	2.50	6750.44	11074.20	6750.44	0.20	0.31	38.56	2.41	12751.70	12751.70	12751.70	>100
2.05	2.50	ø8/20	2	2	3	SLV	0.35	0.16	82.42	2.50	6750.44	10587.50	6750.44	0.20	0.31	1551.39	2.34	12418.80	12418.80	12418.80	8.005
2.05	2.50	ø8/20	2	2	1	SLV	0.35	0.16	106.82	2.50	6750.44	10597.80	6750.44	0.20	0.31	760.69	2.35	12425.90	12425.90	12425.90	16.335
2.90	3.80	ø8/20	2	2	7	SLU	0.35	0.16	2708.70	2.50	6750.44	10935.40	6750.44	0.20	0.31	20.28	2.39	12657.70	12657.70	12657.70	2.492
2.90	3.80	ø8/20	2	2	3	SLV	0.35	0.16	2191.26	2.50	6750.44	10462.60	6750.44	0.20	0.31	2030.87	2.33	12331.90	12331.90	12331.90	3.081
2.90	3.80	ø8/20	2	2	1	SLV	0.35	0.16	2417.96	2.50	6750.44	10466.80	6750.44	0.20	0.31	976.17	2.33	12334.90	12334.90	12334.90	2.792

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
-642	1	SLV	6880.20	2417.96	98.02	-2030.87	0.00	3233.36	11.66	56.86	1.83	10.12
138	1	SLV	0.00	0.00	-5237.08	0.00	0.00	5237.08	7.48	56.86	7.48	10.12

Pilastrata n. 5

Nodi: 39 -643 139

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	1	0.00	-8310.63	-222.87	-222.87	4056.61	4056.61	-8310.63	-313.55	5143.31	91.41	13.19	1.268
0.00	3	SLV	1	1	0.00	-8310.63	-222.87	-222.87	4056.61	4056.61	-8310.63	-313.55	5143.31	91.41	13.19	1.268
2.50	3	SLV	1	1	250.00	-7748.13	181.08	181.08	-528.78	-528.78	-7748.13	1683.08	-4979.37	282.66	8.68	9.401
2.90	3	SLV	2	1	0.00	-6696.23	693.23	693.23	-1087.52	-1087.52	-6696.23	2880.25	-4592.50	298.12	6.45	4.201
3.80	7(e)	SLU	2	1	90.00	-10558.20	-2663.55	-2663.55	-36.23	-211.16	-10558.20	-5374.45	-442.24	182.81	11.57	2.018

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	10	SLE R	1	1	0.00	-9898.32	26.46	-12.67	0.00	8.04	10.42	153.24
0.00	8	SLE R	1	1	0.00	-8828.10	27.42	-5.33	0.00	8.04	9.25	136.25
0.00	14	SLE Q	1	1	0.00	-8542.89	26.28	-3.37	0.00	8.04	8.92	131.44
0.00	10	SLE R	1	1	0.00	-9898.32	26.46	-12.67	0.00	8.04	10.42	153.24
0.00	8	SLE R	1	1	0.00	-8828.10	27.42	-5.33	0.00	8.04	9.25	136.25
0.00	14	SLE Q	1	1	0.00	-8542.89	26.28	-3.37	0.00	8.04	8.92	131.44
2.50	10	SLE R	1	1	250.00	-9335.82	-16.60	41.20	0.00	8.04	10.21	148.69
2.50	8	SLE R	1	1	250.00	-8265.60	-15.90	26.66	0.00	8.04	8.88	129.93
2.50	14	SLE Q	1	1	250.00	-7980.39	-16.78	22.78	0.00	8.04	8.55	125.14
2.90	10	SLE R	2	1	0.00	-8120.30	-21.87	408.64	0.00	8.04	15.87	204.84
2.90	8	SLE R	2	1	0.00	-7073.70	-21.32	370.59	0.00	8.04	14.14	181.81
2.90	14	SLE Q	2	1	0.00	-6794.70	-21.99	360.54	0.00	8.04	13.69	175.86
3.80	10	SLE R	2	1	90.00	-7917.80	-27.85	-1997.76	4.02	4.02	64.51	1267.14
3.80	14	SLE Q	2	1	90.00	-6592.20	-27.08	-1665.58	4.02	4.02	53.93	1059.02

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>
3.80	14	SLE Q	2	1	90.00	-6592.20	-1665.58	-27.08	34.00	216.00	0.50	16.00	143.25	4.02	184.46	1059.02	0.31	0.08
3.80	12	SLE F	2	1	90.00	-6703.85	-1693.49	-27.17	34.00	216.00	0.50	16.00	143.22	4.02	184.51	1076.49	0.31	0.08

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	bw_y <m>	d_y <m>	$Vsdu_y$ <daN>	$ctg\theta_y$	$VRsd_y$ <daN>	$VRcd_y$ <daN>	Vrd_y <daN>	bw_z <m>	d_z <m>	$Vsdu_z$ <daN>	$ctg\theta_z$	$VRsd_z$ <daN>	$VRcd_z$ <daN>	Vrd_z <daN>	Sic.
0.00	0.45	ø8/20	2	2	7	SLU	0.30	0.26	22.42	2.50	11077.60	15291.00	11077.60	0.30	0.26	30.20	2.50	11077.60	15291.00	11077.60	>100
0.00	0.45	ø8/20	2	2	5	SLU	0.30	0.26	22.58	2.50	11077.60	15078.40	11077.60	0.30	0.26	17.07	2.50	11077.60	15078.40	11077.60	>100
0.00	0.45	ø8/20	2	2	1	SLV	0.30	0.26	788.98	2.50	11077.60	14726.50	11077.60	0.30	0.26	211.75	2.50	11077.60	14726.50	11077.60	14.040
0.00	0.45	ø8/20	2	2	3	SLV	0.30	0.26	1653.89	2.50	11077.60	14713.20	11077.60	0.30	0.26	161.48	2.50	11077.60	14713.20	11077.60	6.698
0.45	2.05	ø8/20	2	2	7	SLU	0.30	0.26	22.42	2.50	11077.60	15273.60	11077.60	0.30	0.26	30.20	2.50	11077.60	15273.60	11077.60	>100
0.45	2.05	ø8/20	2	2	5	SLU	0.30	0.26	22.58	2.50	11077.60	15061.00	11077.60	0.30	0.26	17.07	2.50	11077.60	15061.00	11077.60	>100
0.45	2.05	ø8/20	2	2	1	SLV	0.30	0.26	788.98	2.50	11077.60	14713.10	11077.60	0.30	0.26	211.75	2.50	11077.60	14713.10	11077.60	14.040
0.45	2.05	ø8/20	2	2	3	SLV	0.30	0.26	1653.89	2.50	11077.60	14699.80	11077.60	0.30	0.26	161.48	2.50	11077.60	14699.80	11077.60	6.698
2.05	2.50	ø8/20	2	2	7	SLU	0.30	0.26	22.42	2.50	11077.60	15211.60	11077.60	0.30	0.26	30.20	2.50	11077.60	15211.60	11077.60	>100
2.05	2.50	ø8/20	2	2	5	SLU	0.30	0.26	22.58	2.50	11077.60	14999.00	11077.60	0.30	0.26	17.07	2.50	11077.60	14999.00	11077.60	>100
2.05	2.50	ø8/20	2	2	1	SLV	0.30	0.26	788.98	2.50	11077.60	14665.40	11077.60	0.30	0.26	211.75	2.50	11077.60	14665.40	11077.60	14.040
2.05	2.50	ø8/20	2	2	3	SLV	0.30	0.26	1653.89	2.50	11077.60	14652.10	11077.60	0.30	0.26	161.48	2.50	11077.60	14652.10	11077.60	6.698
2.90	3.80	ø8/20	2	2	7	SLU	0.30	0.26	8.92	2.50	11077.60	14984.10	11077.60	0.30	0.26	3560.48	2.50	11077.60	14984.10	11077.60	3.111
2.90	3.80	ø8/20	2	2	1	SLV	0.30	0.26	990.31	2.50	11077.60	14469.40	11077.60	0.30	0.26	3253.23	2.50	11077.60	14469.40	11077.60	3.405
2.90	3.80	ø8/20	2	2	3	SLV	0.30	0.26	2111.66	2.50	11077.60	14464.00	11077.60	0.30	0.26	2941.71	2.50	11077.60	14464.00	11077.60	3.766

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
-643	1	SLV	6655.19	-2111.66	0.00	-3253.23	-1203.28	4931.49	10.31	56.86	2.91	10.12
139	1	SLV	0.00	0.00	0.00	0.00	7757.88	7757.88	8.62	56.86	8.62	10.12

Pilastrata n. 6

Nodi: 40 -644 140

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>
2	R	20.00	35.00	4.00	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3(e)	SLV	1	2	0.00	-8748.25	-567.49	-567.49	125.43	174.97	-8748.25	-4525.38	1469.74	129.38	5.41	8.011
0.00	3(e)	SLV	1	2	0.00	-8748.25	-567.49	-567.49	125.43	174.97	-8748.25	-4525.38	1469.74	129.38	5.41	8.011
2.50	1(e)	SLV	1	2	250.00	-8467.82	241.44	241.44	126.54	169.36	-77607.80	3078.52	2218.38	70.31	4.98	9.165
2.90	3	SLV	2	2	0.00	-6936.00	2067.87	2067.87	-756.74	-756.74	-6936.00	4269.91	-1519.75	306.56	5.54	2.058
3.64	7	SLU	2	2	74.00	-11034.00	297.03	297.03	1230.94	1230.94	-11034.00	674.79	2714.42	87.19	7.35	2.209

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	10	SLE R	1	2	0.00	-9661.79	15.59	-99.75	0.00	6.16	14.76	210.87
0.00	8	SLE R	1	2	0.00	-8632.10	11.31	-99.20	0.00	6.16	13.29	189.83
0.00	14	SLE Q	1	2	0.00	-8361.13	10.15	-98.93	0.00	6.16	12.90	184.25
0.00	10	SLE R	1	2	0.00	-9661.79	15.59	-99.75	0.00	6.16	14.76	210.87

0.00	8	SLE R	1	2	0.00	-8632.10	11.31	-99.20	0.00	6.16	13.29	189.83
0.00	14	SLE Q	1	2	0.00	-8361.13	10.15	-98.93	0.00	6.16	12.90	184.25
2.50	10	SLE R	1	2	250.00	-9224.28	-23.09	93.47	0.00	6.16	14.37	203.66
2.50	8	SLE R	1	2	250.00	-8194.60	-16.21	91.27	0.00	6.16	12.77	181.37
2.50	14	SLE Q	1	2	250.00	-7923.63	-14.36	93.70	0.00	6.16	12.40	176.18
2.90	10	SLE R	2	2	0.00	-8413.49	-558.98	130.05	3.08	3.08	40.37	407.24
2.90	14	SLE Q	2	2	0.00	-7084.49	-476.31	130.58	3.08	3.08	35.05	352.59
3.64	10	SLE R	2	2	74.00	-8283.99	923.31	229.58	3.08	3.08	72.69	963.78
3.64	14	SLE Q	2	2	74.00	-6954.99	769.70	229.52	3.08	3.08	61.97	815.32

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø8/20	2	2	6	SLU	0.35	0.16	16.22	2.50	6750.44	11048.90	6750.44	0.20	0.31	99.91	2.40	12734.60	12734.60	12734.60	>100
0.00	0.45	ø8/20	2	2	7	SLU	0.35	0.16	21.26	2.50	6750.44	11185.70	6750.44	0.20	0.31	100.22	2.42	12826.80	12826.80	12826.80	>100
0.00	0.45	ø8/20	2	2	3	SLV	0.35	0.16	97.48	2.50	6750.44	10692.90	6750.44	0.20	0.31	212.00	2.36	12491.70	12491.70	12491.70	58.924
0.00	0.45	ø8/20	2	2	1	SLV	0.35	0.16	128.99	2.50	6750.44	10711.90	6750.44	0.20	0.31	157.76	2.36	12504.80	12504.80	12504.80	52.334
0.45	2.05	ø8/20	2	2	6	SLU	0.35	0.16	16.22	2.50	6750.44	11036.50	6750.44	0.20	0.31	99.91	2.40	12726.20	12726.20	12726.20	>100
0.45	2.05	ø8/20	2	2	7	SLU	0.35	0.16	21.26	2.50	6750.44	11173.30	6750.44	0.20	0.31	100.22	2.42	12818.40	12818.40	12818.40	>100
0.45	2.05	ø8/20	2	2	3	SLV	0.35	0.16	97.48	2.50	6750.44	10683.40	6750.44	0.20	0.31	212.00	2.36	12485.10	12485.10	12485.10	58.893
0.45	2.05	ø8/20	2	2	1	SLV	0.35	0.16	128.99	2.50	6750.44	10702.40	6750.44	0.20	0.31	157.76	2.36	12498.20	12498.20	12498.20	52.334
2.05	2.50	ø8/20	2	2	6	SLU	0.35	0.16	16.22	2.50	6750.44	10992.40	6750.44	0.20	0.31	99.91	2.40	12696.40	12696.40	12696.40	>100
2.05	2.50	ø8/20	2	2	7	SLU	0.35	0.16	21.26	2.50	6750.44	11129.20	6750.44	0.20	0.31	100.22	2.41	12788.80	12788.80	12788.80	>100
2.05	2.50	ø8/20	2	2	3	SLV	0.35	0.16	97.48	2.50	6750.44	10649.50	6750.44	0.20	0.31	212.00	2.35	12461.70	12461.70	12461.70	58.782
2.05	2.50	ø8/20	2	2	1	SLV	0.35	0.16	128.99	2.50	6750.44	10668.50	6750.44	0.20	0.31	157.76	2.36	12474.80	12474.80	12474.80	52.334
2.90	3.64	ø8/20	2	2	6	SLU	0.35	0.16	2391.20	2.50	6750.44	10850.20	6750.44	0.20	0.31	173.67	2.38	12599.60	12599.60	12599.60	2.823
2.90	3.64	ø8/20	2	2	7	SLU	0.35	0.16	2667.64	2.50	6750.44	10989.90	6750.44	0.20	0.31	174.49	2.40	12694.70	12694.70	12694.70	2.530
2.90	3.64	ø8/20	2	2	3	SLV	0.35	0.16	2286.55	2.50	6750.44	10509.50	6750.44	0.20	0.31	3675.57	2.33	12364.60	12364.60	12364.60	2.952
2.90	3.64	ø8/20	2	2	1	SLV	0.35	0.16	2540.42	2.50	6750.44	10516.50	6750.44	0.20	0.31	1501.75	2.34	12369.50	12369.50	12369.50	2.657

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
-644	1	SLV	7291.04	2540.42	323.92	3675.57	0.00	4659.86	13.66	56.86	3.24	10.12
140	1	SLV	0.00	0.00	-5499.36	0.00	-3262.18	6394.12	9.13	56.86	9.13	10.12

Pilastrata n. 7

Nodi: 41 -645 141

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.10	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	1	0.00	-8168.80	-294.80	-294.80	3848.93	3848.93	-8168.80	-453.95	5126.05	92.81	12.24	1.333
0.00	3	SLV	1	1	0.00	-8168.80	-294.80	-294.80	3848.93	3848.93	-8168.80	-453.95	5126.05	92.81	12.24	1.333
2.50	3	SLV	1	1	250.00	-7606.30	237.63	237.63	-554.13	-554.13	-7606.30	2068.90	-4897.71	286.88	7.74	8.812
2.90	3	SLV	2	1	0.00	-6626.79	904.86	904.86	-1729.60	-1729.60	-6626.79	2521.99	-4692.58	292.50	7.07	2.729
3.80	7(e)	SLU	2	1	90.00	-10504.80	-2686.43	-2686.43	-49.55	-210.10	-10504.80	-5368.83	-442.51	182.81	11.59	1.999

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	10	SLE R	1	1	0.00	-9917.23	41.27	-16.71	0.00	8.04	10.78	157.26
0.00	8	SLE R	1	1	0.00	-8844.03	41.82	-9.18	0.00	8.04	9.60	140.11
0.00	14	SLE Q	1	1	0.00	-8558.45	40.69	-7.22	0.00	8.04	9.27	135.30
0.00	10	SLE R	1	1	0.00	-9917.23	41.27	-16.71	0.00	8.04	10.78	157.26
0.00	8	SLE R	1	1	0.00	-8844.03	41.82	-9.18	0.00	8.04	9.60	140.11
0.00	14	SLE Q	1	1	0.00	-8558.45	40.69	-7.22	0.00	8.04	9.27	135.30
2.50	10	SLE R	1	1	250.00	-9354.73	-36.24	44.38	0.00	8.04	10.65	153.50
2.50	8	SLE R	1	1	250.00	-8281.53	-35.35	30.05	0.00	8.04	9.32	134.70
2.50	14	SLE Q	1	1	250.00	-7995.95	-36.51	26.25	0.00	8.04	8.99	129.98
2.90	10	SLE R	2	1	0.00	-8080.47	-46.10	498.41	0.00	8.04	18.08	228.29
2.90	8	SLE R	2	1	0.00	-7040.17	-45.09	447.04	0.00	8.04	16.13	202.92
2.90	14	SLE Q	2	1	0.00	-6762.83	-46.26	433.15	2.01	6.03	15.64	196.45
3.80	10	SLE R	2	1	90.00	-7877.97	-38.29	-2014.64	4.02	4.02	65.45	1293.47
3.80	14	SLE Q	2	1	90.00	-6560.33	-38.31	-1678.04	4.02	4.02	54.76	1080.23

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>
3.80	14	SLE Q	2	1	90.00	-6560.33	-1678.04	-38.31	34.00	216.00	0.50	16.00	144.28	4.02	183.22	1080.23	0.31	0.08
3.80	12	SLE F	2	1	90.00	-6671.32	-1706.31	-38.34	34.00	216.00	0.50	16.00	144.24	4.02	183.32	1098.11	0.32	0.08

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø8/20	2	2	7	SLU	0.30	0.26	40.32	2.50	11077.60	15294.30	11077.60	0.30	0.26	33.94	2.50	11077.60	15294.30	11077.60	>100
0.00	0.45	ø8/20	2	2	1	SLV	0.30	0.26	685.17	2.50	11077.60	14753.40	11077.60	0.30	0.26	279.15	2.50	11077.60	14753.40	11077.60	16.168
0.00	0.45	ø8/20	2	2	3	SLV	0.30	0.26	1705.42	2.50	11077.60	14736.10	11077.60	0.30	0.26	212.80	2.50	11077.60	14736.10	11077.60	6.496
0.45	2.05	ø8/20	2	2	7	SLU	0.30	0.26	40.32	2.50	11077.60	15276.90	11077.60	0.30	0.26	33.94	2.50	11077.60	15276.90	11077.60	>100
0.45	2.05	ø8/20	2	2	1	SLV	0.30	0.26	685.17	2.50	11077.60	14740.00	11077.60	0.30	0.26	279.15	2.50	11077.60	14740.00	11077.60	16.168
0.45	2.05	ø8/20	2	2	3	SLV	0.30	0.26	1705.42	2.50	11077.60	14722.70	11077.60	0.30	0.26	212.80	2.50	11077.60	14722.70	11077.60	6.496
2.05	2.50	ø8/20	2	2	7	SLU	0.30	0.26	40.32	2.50	11077.60	15214.90	11077.60	0.30	0.26	33.94	2.50	11077.60	15214.90	11077.60	>100
2.05	2.50	ø8/20	2	2	1	SLV	0.30	0.26	685.17	2.50	11077.60	14692.30	11077.60	0.30	0.26	279.15	2.50	11077.60	14692.30	11077.60	16.168
2.05	2.50	ø8/20	2	2	3	SLV	0.30	0.26	1705.42	2.50	11077.60	14675.00	11077.60	0.30	0.26	212.80	2.50	11077.60	14675.00	11077.60	6.496
2.90	3.80	ø8/20	2	2	7	SLU	0.30	0.26	11.07	2.50	11077.60	14977.10	11077.60	0.30	0.26	3719.47	2.50	11077.60	14977.10	11077.60	2.978
2.90	3.80	ø8/20	2	2	6	SLU	0.30	0.26	11.16	2.50	11077.60	14825.60	11077.60	0.30	0.26	3330.54	2.50	11077.60	14825.60	11077.60	3.326
2.90	3.80	ø8/20	2	2	1	SLV	0.30	0.26	1267.93	2.50	11077.60	14472.00	11077.60	0.30	0.26	3624.59	2.50	11077.60	14472.00	11077.60	3.056
2.90	3.80	ø8/20	2	2	3	SLV	0.30	0.26	3433.25	2.50	11077.60	14464.70	11077.60	0.30	0.26	3307.50	2.50	11077.60	14464.70	11077.60	3.227

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
-645	1	SLV	6571.56	3433.25	0.00	-3624.59	-1639.92	6285.08	11.53	56.86	4.23	10.12
141	1	SLV	0.00	0.00	0.00	0.00	8287.18	8287.18	9.21	56.86	9.21	10.12

Pilastrata n. 8

Nodi: 42 -646 142

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>
2	R	20.00	35.00	4.00	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	2	0.00	-7312.17	-3035.16	-3035.16	-165.59	-165.59	-7312.17	-4873.05	-233.06	185.62	13.31	1.605
0.00	3	SLV	1	2	0.00	-7312.17	-3035.16	-3035.16	-165.59	-165.59	-7312.17	-4873.05	-233.06	185.62	13.31	1.605
2.50	3(e)	SLV	1	2	250.00	-9195.80	124.98	183.92	184.62	184.62	-77607.80	2453.82	2432.81	75.94	5.26	8.439
2.90	3	SLV	2	2	0.00	-7000.24	-1353.97	-1353.97	-751.26	-751.26	-7000.24	-3506.83	-1960.08	246.09	5.09	2.592
3.80	1	SLV	2	2	90.00	-6905.75	383.29	383.29	1272.95	1272.95	-6905.75	703.49	2462.84	87.19	8.24	1.927

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	10	SLE R	1	2	0.00	-9840.05	-15.44	-10.61	0.00	6.16	13.21	193.85
0.00	8	SLE R	1	2	0.00	-8763.37	-14.95	-11.64	0.00	6.16	11.85	173.54
0.00	14	SLE Q	1	2	0.00	-8472.74	-14.96	-10.14	0.00	6.16	11.46	167.70
0.00	10	SLE R	1	2	0.00	-9840.05	-15.44	-10.61	0.00	6.16	13.21	193.85
0.00	8	SLE R	1	2	0.00	-8763.37	-14.95	-11.64	0.00	6.16	11.85	173.54
0.00	14	SLE Q	1	2	0.00	-8472.74	-14.96	-10.14	0.00	6.16	11.46	167.70
2.50	10	SLE R	1	2	250.00	-9402.55	23.31	8.44	0.00	6.16	12.91	187.70
2.50	8	SLE R	1	2	250.00	-8325.87	22.96	8.38	0.00	6.16	11.54	167.18
2.50	14	SLE Q	1	2	250.00	-8035.24	23.06	8.65	0.00	6.16	11.18	161.78
2.90	10	SLE R	2	2	0.00	-8801.58	-438.58	20.99	3.08	3.08	29.41	324.83
2.90	9	SLE R	2	2	0.00	-7960.11	-400.98	20.64	3.08	3.08	26.88	296.06
2.90	14	SLE Q	2	2	0.00	-7348.84	-373.08	20.31	3.08	3.08	25.01	274.90
3.80	10	SLE R	2	2	90.00	-8644.08	991.58	20.54	3.08	3.08	69.79	965.08
3.80	14	SLE Q	2	2	90.00	-7191.34	828.10	21.04	3.08	3.08	58.45	811.39

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø8/20	2	2	5	SLU	0.35	0.16	19.66	2.50	6750.44	11020.10	6750.44	0.20	0.31	10.66	2.40	12715.20	12715.10	12715.10	>100
0.00	0.45	ø8/20	2	2	7	SLU	0.35	0.16	20.16	2.50	6750.44	11215.60	6750.44	0.20	0.31	10.08	2.43	12846.80	12846.80	12846.80	>100
0.00	0.45	ø8/20	2	2	3	SLV	0.35	0.16	139.17	2.50	6750.44	10800.00	6750.44	0.20	0.31	1201.68	2.37	12565.30	12565.30	12565.30	10.457
0.00	0.45	ø8/20	2	2	1	SLV	0.35	0.16	163.26	2.50	6750.44	10769.90	6750.44	0.20	0.31	465.01	2.37	12544.60	12544.60	12544.60	26.977
0.45	2.05	ø8/20	2	2	5	SLU	0.35	0.16	19.66	2.50	6750.44	11007.70	6750.44	0.20	0.31	10.66	2.40	12706.80	12706.80	12706.80	>100
0.45	2.05	ø8/20	2	2	7	SLU	0.35	0.16	20.16	2.50	6750.44	11203.20	6750.44	0.20	0.31	10.08	2.42	12838.50	12838.50	12838.50	>100
0.45	2.05	ø8/20	2	2	3	SLV	0.35	0.16	139.17	2.50	6750.44	10790.50	6750.44	0.20	0.31	1201.68	2.37	12558.70	12558.70	12558.70	10.451
0.45	2.05	ø8/20	2	2	1	SLV	0.35	0.16	163.26	2.50	6750.44	10760.40	6750.44	0.20	0.31	465.01	2.37	12538.10	12538.10	12538.10	26.963
2.05	2.50	ø8/20	2	2	5	SLU	0.35	0.16	19.66	2.50	6750.44	10963.70	6750.44	0.20	0.31	10.66	2.39	12676.90	12676.90	12676.90	>100
2.05	2.50	ø8/20	2	2	7	SLU	0.35	0.16	20.16	2.50	6750.44	11159.10	6750.44	0.20	0.31	10.08	2.42	12808.90	12808.90	12808.90	>100
2.05	2.50	ø8/20	2	2	3	SLV	0.35	0.16	139.17	2.50	6750.44	10756.60	6750.44	0.20	0.31	1201.68	2.37	12535.50	12535.50	12535.50	10.432
2.05	2.50	ø8/20	2	2	1	SLV	0.35	0.16	163.26	2.50	6750.44	10726.50	6750.44	0.20	0.31	465.01	2.36	12514.80	12514.80	12514.80	26.913
2.90	3.80	ø8/20	2	2	5	SLU	0.35	0.16	1812.22	2.50	6750.44	10846.20	6750.44	0.20	0.31	1.37	2.38	12596.80	12596.80	12596.80	3.725
2.90	3.80	ø8/20	2	2	7	SLU	0.35	0.16	2115.97	2.50	6750.44	11054.20	6750.44	0.20	0.31	0.78	2.41	12738.20	12738.20	12738.20	3.190
2.90	3.80	ø8/20	2	2	3	SLV	0.35	0.16	2147.75	2.50	6750.44	10565.70	6750.44	0.20	0.31	2607.17	2.34	12403.70	12403.70	12403.70	3.143
2.90	3.80	ø8/20	2	2	1	SLV	0.35	0.16	2366.40	2.50	6750.44	10558.10	6750.44	0.20	0.31	950.55	2.34	12398.40	12398.40	12398.40	2.853

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
-646	3	SLV	7697.45	2366.40	2097.98	2607.17	0.00	5169.91	14.71	56.86	3.71	10.12
142	3	SLV	0.00	0.00	-5306.06	0.00	0.00	5306.06	7.58	56.86	7.58	10.12

Pilastrata n. 11

Nodi: 36 136

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.00	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	1	0.00	-5236.18	422.26	422.26	1092.14	1092.14	-5236.18	1415.37	3842.92	78.75	10.57	3.497
0.00	3	SLV	1	1	0.00	-5236.18	422.26	422.26	1092.14	1092.14	-5236.18	1415.37	3842.92	78.75	10.57	3.497
3.40	3	SLV	1	1	340.00	-4471.18	-496.43	-496.43	-1018.20	-1018.20	-4471.18	-1792.10	-3699.61	254.53	9.51	3.629

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	10	SLE R	1	1	0.00	-8047.68	167.89	177.16	0.00	6.16	14.71	193.53
0.00	8	SLE R	1	1	0.00	-7443.34	158.34	151.77	0.00	6.16	13.43	177.12

0.00	14	SLE Q	1	1	0.00	-7326.75	154.00	145.39	0.00	6.16	13.11	173.12
0.00	10	SLE R	1	1	0.00	-8047.68	167.89	177.16	0.00	6.16	14.71	193.53
0.00	8	SLE R	1	1	0.00	-7443.34	158.34	151.77	0.00	6.16	13.43	177.12
0.00	14	SLE Q	1	1	0.00	-7326.75	154.00	145.39	0.00	6.16	13.11	173.12
3.40	10	SLE R	1	1	340.00	-7282.68	-232.92	-308.52	1.54	4.62	17.87	224.72
3.40	14	SLE Q	1	1	340.00	-6561.75	-214.24	-253.19	1.54	4.62	15.66	197.67

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.57	ø8/20	2	2	7	SLU	0.30	0.26	155.65	2.50	11077.60	14955.30	11077.60	0.30	0.26	190.78	2.50	11077.60	14955.30	11077.60	58.066
0.00	0.57	ø8/20	2	2	1	SLV	0.30	0.26	374.43	2.50	11077.60	14760.50	11077.60	0.30	0.26	273.51	2.50	11077.60	14760.50	11077.60	29.585
0.00	0.57	ø8/20	2	2	3	SLV	0.30	0.26	620.39	2.50	11077.60	14798.20	11077.60	0.30	0.26	269.95	2.50	11077.60	14798.20	11077.60	17.856
0.57	2.83	ø8/20	2	2	7	SLU	0.30	0.26	155.65	2.50	11077.60	14933.40	11077.60	0.30	0.26	190.78	2.50	11077.60	14933.40	11077.60	58.066
0.57	2.83	ø8/20	2	2	1	SLV	0.30	0.26	374.43	2.50	11077.60	14743.60	11077.60	0.30	0.26	273.51	2.50	11077.60	14743.60	11077.60	29.585
0.57	2.83	ø8/20	2	2	3	SLV	0.30	0.26	620.39	2.50	11077.60	14781.30	11077.60	0.30	0.26	269.95	2.50	11077.60	14781.30	11077.60	17.856
2.83	3.40	ø8/20	2	2	7	SLU	0.30	0.26	155.65	2.50	11077.60	14845.60	11077.60	0.30	0.26	190.78	2.50	11077.60	14845.60	11077.60	58.066
2.83	3.40	ø8/20	2	2	1	SLV	0.30	0.26	374.43	2.50	11077.60	14676.10	11077.60	0.30	0.26	273.51	2.50	11077.60	14676.10	11077.60	29.585
2.83	3.40	ø8/20	2	2	3	SLV	0.30	0.26	620.39	2.50	11077.60	14713.80	11077.60	0.30	0.26	269.95	2.50	11077.60	14713.80	11077.60	17.856

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
136	3	SLV	0.00	0.00	5408.41	0.00	-1255.77	5552.28	6.17	56.86	6.17	10.12

Pilastrata n. 12

Nodi: 34 -634 134

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>
2	R	20.00	35.00	4.00	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	1	SLV	1	2	0.00	-5378.32	1024.39	1024.39	228.63	228.63	-5378.32	4405.51	1049.57	33.75	7.54	4.315
0.00	1	SLV	1	2	0.00	-5378.32	1024.39	1024.39	228.63	228.63	-5378.32	4405.51	1049.57	33.75	7.54	4.315
2.50	1(e)	SLV	1	2	250.00	-4940.82	-737.56	-737.56	31.82	98.82	-4940.82	-4505.99	601.55	163.12	10.64	6.109
2.90	1	SLV	2	2	0.00	-3952.07	-1150.65	-1150.65	-152.54	-152.54	-3952.07	-4374.27	-607.24	196.88	10.98	3.805
3.80	3	SLV	2	2	90.00	-3678.12	-319.49	-319.49	1175.40	1175.40	-3678.12	-599.70	2249.02	92.46	9.29	1.911

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	10	SLE R	1	2	0.00	-6297.36	6.06	27.85	0.00	6.16	8.73	127.59
0.00	8	SLE R	1	2	0.00	-5718.67	3.02	26.78	0.00	6.16	7.86	115.38
0.00	14	SLE Q	1	2	0.00	-5675.34	4.15	26.79	0.00	6.16	7.85	114.94
0.00	10	SLE R	1	2	0.00	-6297.36	6.06	27.85	0.00	6.16	8.73	127.59
0.00	8	SLE R	1	2	0.00	-5718.67	3.02	26.78	0.00	6.16	7.86	115.38
0.00	14	SLE Q	1	2	0.00	-5675.34	4.15	26.79	0.00	6.16	7.85	114.94
2.50	10	SLE R	1	2	250.00	-5859.86	-27.28	-3.01	0.00	6.16	8.48	120.71
2.50	8	SLE R	1	2	250.00	-5281.17	-22.56	-5.69	0.00	6.16	7.63	108.80
2.50	14	SLE Q	1	2	250.00	-5237.84	-22.28	-6.77	0.00	6.16	7.58	108.13
2.90	10	SLE R	2	2	0.00	-4871.11	-60.74	-11.48	0.00	6.16	8.66	115.08
2.90	8	SLE R	2	2	0.00	-4292.42	-54.78	-14.39	0.00	6.16	7.77	102.81
2.90	14	SLE Q	2	2	0.00	-4249.09	-54.63	-15.54	0.00	6.16	7.73	102.20
3.80	10	SLE R	2	2	90.00	-4713.61	214.54	-16.63	0.00	6.16	14.78	167.01
3.80	8	SLE R	2	2	90.00	-4134.92	189.50	-18.70	0.00	6.16	13.13	148.13
3.80	14	SLE Q	2	2	90.00	-4091.59	185.86	-19.40	0.00	6.16	12.92	146.14

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,v}$ <m>	$d_{,v}$ <m>	$Vsdu_{,v}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,v}$ <daN>	$VRcd_{,v}$ <daN>	$Vrd_{,v}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø8/20	2	2	5	SLU	0.35	0.16	13.09	2.50	6750.44	10534.90	6750.44	0.20	0.31	16.75	2.34	12382.30	12382.30	12382.30	>100
0.00	0.45	ø8/20	2	2	7	SLU	0.35	0.16	17.75	2.50	6750.44	10640.00	6750.44	0.20	0.31	15.78	2.35	12455.10	12455.10	12455.10	>100
0.00	0.45	ø8/20	2	2	1	SLV	0.35	0.16	121.34	2.50	6750.44	10356.90	6750.44	0.20	0.31	385.08	2.31	12258.00	12258.00	12258.00	31.832
0.00	0.45	ø8/20	2	2	3	SLV	0.35	0.16	255.21	2.50	6750.44	10371.00	6750.44	0.20	0.31	191.86	2.32	12267.90	12267.90	12267.90	26.451
0.45	2.05	ø8/20	2	2	5	SLU	0.35	0.16	13.09	2.50	6750.44	10522.50	6750.44	0.20	0.31	16.75	2.34	12373.70	12373.70	12373.70	>100
0.45	2.05	ø8/20	2	2	7	SLU	0.35	0.16	17.75	2.50	6750.44	10627.60	6750.44	0.20	0.31	15.78	2.35	12446.60	12446.60	12446.60	>100
0.45	2.05	ø8/20	2	2	1	SLV	0.35	0.16	121.34	2.50	6750.44	10347.40	6750.44	0.20	0.31	385.08	2.31	12251.30	12251.30	12251.30	31.815
0.45	2.05	ø8/20	2	2	3	SLV	0.35	0.16	255.21	2.50	6750.44	10361.50	6750.44	0.20	0.31	191.86	2.31	12261.20	12261.20	12261.20	26.451
2.05	2.50	ø8/20	2	2	5	SLU	0.35	0.16	13.09	2.50	6750.44	10478.50	6750.44	0.20	0.31	16.75	2.33	12343.00	12343.00	12343.00	>100
2.05	2.50	ø8/20	2	2	7	SLU	0.35	0.16	17.75	2.50	6750.44	10583.50	6750.44	0.20	0.31	15.78	2.34	12416.10	12416.10	12416.10	>100
2.05	2.50	ø8/20	2	2	1	SLV	0.35	0.16	121.34	2.50	6750.44	10313.50	6750.44	0.20	0.31	385.08	2.31	12227.40	12227.40	12227.40	31.753
2.05	2.50	ø8/20	2	2	3	SLV	0.35	0.16	255.21	2.50	6750.44	10327.60	6750.44	0.20	0.31	191.86	2.31	12237.30	12237.30	12237.30	26.451
2.90	3.80	ø8/20	2	2	7	SLU	0.35	0.16	405.92	2.50	6750.44	10415.60	6750.44	0.20	0.31	7.77	2.32	12299.10	12299.10	12299.10	16.630
2.90	3.80	ø8/20	2	2	1	SLV	0.35	0.16	618.03	2.50	6750.44	10184.30	6750.44	0.20	0.31	661.49	2.29	12136.10	12136.10	12136.10	10.923
2.90	3.80	ø8/20	2	2	3	SLV	0.35	0.16	1157.00	2.50	6750.44	10198.40	6750.44	0.20	0.31	336.30	2.29	12146.10	12146.10	12146.10	5.834

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
-634	3	SLV	3835.62	1157.00	0.00	-661.49	0.00	1332.74	6.08	56.86	0.60	10.12
	3	SLV	4662.56	1157.00	0.00	-661.49	0.00	1332.74	7.17	56.86	0.51	10.12
134	3	SLV	0.00	0.00	-3100.07	0.00	0.00	3100.07	4.43	56.86	4.43	10.12

Pilastrata n. 13

Nodi: 32 -633 132 50

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.30	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	1	0.00	-8805.92	446.91	446.91	-1609.94	-1609.94	-8805.92	1971.95	-7139.22	282.66	7.18	4.433
0.00	3	SLV	1	1	0.00	-8805.92	446.91	446.91	-1609.94	-1609.94	-8805.92	1971.95	-7139.22	282.66	7.18	4.433
2.50	1	SLV	1	1	250.00	-9223.30	-1323.05	-1323.05	-205.69	-205.69	-9223.30	-7276.89	-1026.09	185.62	8.95	5.489
2.90	1	SLV	2	1	0.00	-8465.80	-1834.81	-1834.81	361.22	361.22	-8465.80	-7173.41	1432.83	171.56	8.21	3.912
3.64	1	SLV	2	1	74.00	-8299.30	-3132.15	-3132.15	761.29	761.29	-8299.30	-7113.17	1796.18	168.75	7.55	2.276
4.22	1(e)	SLV	3	1	42.50	-7150.43	4751.14	4751.14	56.49	143.01	-7150.43	7052.13	102.19	0.70	11.34	1.484
4.22	1(e)	SLV	3	1	42.50	-7150.43	4751.14	4751.14	56.49	143.01	-7150.43	7052.13	102.19	0.70	11.34	1.484
5.47	3	SLV	3	1	167.48	-11760.90	243.16	243.16	385.80	385.80	-99781.50	4056.80	6642.16	56.25	4.67	8.484

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	10	SLE R	1	1	0.00	-12739.30	-43.33	47.47	0.00	12.57	13.24	191.83
0.00	8	SLE R	1	1	0.00	-11796.00	-43.37	47.22	0.00	12.57	12.37	178.80
0.00	14	SLE Q	1	1	0.00	-11459.10	-38.87	47.25	0.00	12.57	11.98	173.35
0.00	10	SLE R	1	1	0.00	-12739.30	-43.33	47.47	0.00	12.57	13.24	191.83
0.00	8	SLE R	1	1	0.00	-11796.00	-43.37	47.22	0.00	12.57	12.37	178.80
0.00	14	SLE Q	1	1	0.00	-11459.10	-38.87	47.25	0.00	12.57	11.98	173.35
2.50	10	SLE R	1	1	250.00	-12176.80	3.88	-27.11	0.00	12.57	11.71	173.36
2.50	8	SLE R	1	1	250.00	-11233.50	4.55	-30.00	0.00	12.57	10.90	161.00
2.50	14	SLE Q	1	1	250.00	-10896.60	3.87	-30.99	0.00	12.57	10.60	156.41
2.90	10	SLE R	2	1	0.00	-11419.30	11.44	-50.26	0.00	12.57	11.53	168.43
2.90	8	SLE R	2	1	0.00	-10476.00	12.22	-52.83	0.00	12.57	10.72	156.03
2.90	14	SLE Q	2	1	0.00	-10139.10	10.71	-53.71	0.00	12.57	10.40	151.27
3.64	10	SLE R	2	1	74.00	-11252.80	63.76	-91.48	0.00	12.57	12.96	182.90
3.64	8	SLE R	2	1	74.00	-10309.50	62.59	-96.61	0.00	12.57	12.16	170.61
3.64	14	SLE Q	2	1	74.00	-9972.60	56.36	-98.45	0.00	12.57	11.78	165.18
4.22	10	SLE R	3	1	42.50	-10250.60	-2.91	119.14	0.00	12.57	11.48	163.14
4.22	8	SLE R	3	1	42.50	-9453.61	-2.38	113.73	0.00	12.57	10.65	151.09
4.22	14	SLE Q	3	1	42.50	-9066.16	-2.41	111.86	0.00	12.57	10.26	145.42
4.22	10	SLE R	3	1	42.50	-10250.60	-2.91	119.14	0.00	12.57	11.48	163.14
4.22	8	SLE R	3	1	42.50	-9453.61	-2.38	113.73	0.00	12.57	10.65	151.09
4.22	14	SLE Q	3	1	42.50	-9066.16	-2.41	111.86	0.00	12.57	10.26	145.42
5.47	10	SLE R	3	1	167.48	-9969.41	46.35	-35.65	0.00	12.57	10.55	152.09
5.47	8	SLE R	3	1	167.48	-9172.42	42.88	-32.02	0.00	12.57	9.69	139.83
5.47	14	SLE Q	3	1	167.48	-8784.96	40.25	-30.70	0.00	12.57	9.27	133.78

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø8/20	2	2	5	SLU	0.30	0.26	25.80	2.50	11077.60	15590.80	11077.60	0.30	0.26	40.06	2.50	11077.60	15590.80	11077.60	>100
0.00	0.45	ø8/20	2	2	1	SLV	0.30	0.26	371.16	2.50	11077.60	15290.10	11077.60	0.30	0.26	700.68	2.50	11077.60	15290.10	11077.60	15.810
0.00	0.45	ø8/20	2	2	3	SLV	0.30	0.26	819.06	2.50	11077.60	15419.90	11077.60	0.30	0.26	320.85	2.50	11077.60	15419.90	11077.60	13.525
0.45	2.05	ø8/20	2	2	5	SLU	0.30	0.26	25.80	2.50	11077.60	15573.30	11077.60	0.30	0.26	40.06	2.50	11077.60	15573.30	11077.60	>100
0.45	2.05	ø8/20	2	2	1	SLV	0.30	0.26	371.16	2.50	11077.60	15276.70	11077.60	0.30	0.26	700.68	2.50	11077.60	15276.70	11077.60	15.810
0.45	2.05	ø8/20	2	2	3	SLV	0.30	0.26	819.06	2.50	11077.60	15406.50	11077.60	0.30	0.26	320.85	2.50	11077.60	15406.50	11077.60	13.525
2.05	2.50	ø8/20	2	2	5	SLU	0.30	0.26	25.80	2.50	11077.60	15511.40	11077.60	0.30	0.26	40.06	2.50	11077.60	15511.40	11077.60	>100
2.05	2.50	ø8/20	2	2	1	SLV	0.30	0.26	371.16	2.50	11077.60	15229.10	11077.60	0.30	0.26	700.68	2.50	11077.60	15229.10	11077.60	15.810
2.05	2.50	ø8/20	2	2	3	SLV	0.30	0.26	819.06	2.50	11077.60	15358.80	11077.60	0.30	0.26	320.85	2.50	11077.60	15358.80	11077.60	13.525
2.90	3.64	ø8/20	2	2	5	SLU	0.30	0.26	90.80	2.50	11077.60	15363.50	11077.60	0.30	0.26	76.62	2.50	11077.60	15363.50	11077.60	>100
2.90	3.64	ø8/20	2	2	7	SLU	0.30	0.26	94.75	2.50	11077.60	15550.90	11077.60	0.30	0.26	71.42	2.50	11077.60	15550.90	11077.60	>100
2.90	3.64	ø8/20	2	2	1	SLV	0.30	0.26	595.40	2.50	11077.60	15115.40	11077.60	0.30	0.26	1799.69	2.50	11077.60	15115.40	11077.60	6.155
2.90	3.64	ø8/20	2	2	3	SLV	0.30	0.26	1410.93	2.50	11077.60	15245.10	11077.60	0.30	0.26	795.29	2.50	11077.60	15245.10	11077.60	7.851
4.22	5.47	ø8/20	2	2	7	SLU	0.30	0.26	52.44	2.50	11077.60	15347.20	11077.60	0.30	0.26	163.04	2.50	11077.60	15347.20	11077.60	67.945
4.22	5.47	ø8/20	2	2	1	SLV	0.30	0.26	109.35	2.50	11077.60	15005.40	11077.60	0.30	0.26	3840.80	2.50	11077.60	15005.40	11077.60	2.884
4.22	5.47	ø8/20	2	2	3	SLV	0.30	0.26	242.86	2.50	11077.60	15145.80	11077.60	0.30	0.26	1676.96	2.50	11077.60	15145.80	11077.60	6.606

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
-633	3	SLV	7485.92	1410.92	-0.00	-1799.69	0.00	2286.83	9.03	56.86	0.71	10.12
	3	SLV	12792.30	1410.92	-0.00	-1799.69	0.00	2286.83	14.65	56.86	0.44	10.12
132	3	SLV	6090.20	242.86	-5373.39	-3840.80	1666.06	5572.42	10.44	56.86	3.67	10.12
	3	SLV	12042.10	242.86	4928.44	-3840.80	5113.18	5325.53	15.62	56.86	2.24	10.12
50	1	SLV	0.00	0.00	-1387.79	0.00	0.00	1387.79	1.54	56.86	1.54	10.12

Pilastrata n. 14

Nodi: 33 133 51

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.30	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	1	SLV	1	1	0.00	-13128.50	-1969.89	-1969.89	305.38	305.38	-13128.50	-7655.81	1167.87	172.97	7.80	3.885
0.00	1	SLV	1	1	0.00	-13128.50	-1969.89	-1969.89	305.38	305.38	-13128.50	-7655.81	1167.87	172.97	7.80	3.885
3.58	1	SLV	1	1	357.50	-12324.20	2001.26	2001.26	-328.69	-328.69	-12324.20	7573.83	-1176.98	352.97	7.94	3.779
4.13	1	SLV	2	1	33.50	-8132.84	-2676.86	-2676.86	473.62	473.62	-8132.84	-7146.61	1222.34	172.97	8.67	2.667
4.13	1	SLV	2	1	33.50	-8132.84	-2676.86	-2676.86	473.62	473.62	-8132.84	-7146.61	1222.34	172.97	8.67	2.667
5.47	1	SLV	2	1	167.48	-7831.39	1825.32	1825.32	-909.03	-909.03	-7831.39	6759.16	-3267.85	334.69	5.55	3.682

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-16232.70	9.57	-43.06	0.00	12.57	15.80	233.13
0.00	8	SLE R	1	1	0.00	-14672.00	8.18	-45.83	0.00	12.57	14.39	211.87
0.00	14	SLE Q	1	1	0.00	-14226.90	8.15	-46.48	0.00	12.57	13.99	205.85
0.00	10	SLE R	1	1	0.00	-16232.70	9.57	-43.06	0.00	12.57	15.80	233.13
0.00	8	SLE R	1	1	0.00	-14672.00	8.18	-45.83	0.00	12.57	14.39	211.87
0.00	14	SLE Q	1	1	0.00	-14226.90	8.15	-46.48	0.00	12.57	13.99	205.85
3.58	10	SLE R	1	1	357.50	-15428.30	-4.54	107.20	0.00	12.57	16.06	232.64
3.58	8	SLE R	1	1	357.50	-13867.60	-3.21	108.64	0.00	12.57	14.63	211.16
3.58	14	SLE Q	1	1	357.50	-13422.50	-3.60	108.74	0.00	12.57	14.23	205.11
4.13	10	SLE R	2	1	33.50	-10902.70	236.53	-76.54	0.00	12.57	15.31	206.38
4.13	8	SLE R	2	1	33.50	-9988.79	213.20	-74.02	0.00	12.57	14.03	189.15
4.13	14	SLE Q	2	1	33.50	-9489.46	203.50	-73.68	0.00	12.57	13.41	180.47
4.13	10	SLE R	2	1	33.50	-10902.70	236.53	-76.54	0.00	12.57	15.31	206.38
4.13	8	SLE R	2	1	33.50	-9988.79	213.20	-74.02	0.00	12.57	14.03	189.15
4.13	14	SLE Q	2	1	33.50	-9489.46	203.50	-73.68	0.00	12.57	13.41	180.47
5.47	10	SLE R	2	1	167.48	-10601.20	-717.22	14.03	0.00	12.57	22.34	279.10
5.47	14	SLE Q	2	1	167.48	-9188.00	-617.65	12.74	0.00	12.57	19.30	241.20

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,v}$ <m>	$d_{,v}$ <m>	$Vsdu_{,v}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,v}$ <daN>	$VRcd_{,v}$ <daN>	$Vrd_{,v}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.60	ø8/20	2	2	5	SLU	0.30	0.26	4.21	2.50	11077.60	16088.60	11077.60	0.30	0.26	56.17	2.50	11077.60	16088.60	11077.60	>100
0.00	0.60	ø8/20	2	2	7	SLU	0.30	0.26	5.35	2.50	11077.60	16398.60	11077.60	0.30	0.26	54.40	2.50	11077.60	16398.60	11077.60	>100
0.00	0.60	ø8/20	2	2	1	SLV	0.30	0.26	177.36	2.50	11077.60	15580.50	11077.60	0.30	0.26	1086.39	2.50	11077.60	15580.50	11077.60	10.197
0.00	0.60	ø8/20	2	2	3	SLV	0.30	0.26	366.62	2.50	11077.60	15712.80	11077.60	0.30	0.26	483.22	2.50	11077.60	15712.80	11077.60	22.924
0.60	2.98	ø8/20	2	2	5	SLU	0.30	0.26	4.21	2.50	11077.60	16065.50	11077.60	0.30	0.26	56.17	2.50	11077.60	16065.50	11077.60	>100
0.60	2.98	ø8/20	2	2	7	SLU	0.30	0.26	5.35	2.50	11077.60	16375.50	11077.60	0.30	0.26	54.40	2.50	11077.60	16375.50	11077.60	>100
0.60	2.98	ø8/20	2	2	1	SLV	0.30	0.26	177.36	2.50	11077.60	15562.80	11077.60	0.30	0.26	1086.39	2.50	11077.60	15562.80	11077.60	10.197
0.60	2.98	ø8/20	2	2	3	SLV	0.30	0.26	366.62	2.50	11077.60	15695.10	11077.60	0.30	0.26	483.22	2.50	11077.60	15695.10	11077.60	22.924
2.98	3.58	ø8/20	2	2	5	SLU	0.30	0.26	4.21	2.50	11077.60	15973.20	11077.60	0.30	0.26	56.17	2.50	11077.60	15973.20	11077.60	>100
2.98	3.58	ø8/20	2	2	7	SLU	0.30	0.26	5.35	2.50	11077.60	16283.20	11077.60	0.30	0.26	54.40	2.50	11077.60	16283.20	11077.60	>100
2.98	3.58	ø8/20	2	2	1	SLV	0.30	0.26	177.36	2.50	11077.60	15491.70	11077.60	0.30	0.26	1086.39	2.50	11077.60	15491.70	11077.60	10.197
2.98	3.58	ø8/20	2	2	3	SLV	0.30	0.26	366.62	2.50	11077.60	15624.10	11077.60	0.30	0.26	483.22	2.50	11077.60	15624.10	11077.60	22.924
4.13	4.58	ø8/20	2	2	7	SLU	0.30	0.26	945.37	2.50	11077.60	15465.40	11077.60	0.30	0.26	88.40	2.50	11077.60	15465.40	11077.60	11.718
4.13	4.58	ø8/20	2	2	1	SLV	0.30	0.26	1029.15	2.50	11077.60	14987.40	11077.60	0.30	0.26	2545.92	2.50	11077.60	14987.40	11077.60	4.351
4.13	4.58	ø8/20	2	2	3	SLV	0.30	0.26	1393.12	2.50	11077.60	15165.80	11077.60	0.30	0.26	1170.92	2.50	11077.60	15165.80	11077.60	7.952
4.58	5.02	ø8/20	2	2	7	SLU	0.30	0.26	945.37	2.50	11077.60	15447.90	11077.60	0.30	0.26	88.40	2.50	11077.60	15447.90	11077.60	11.718
4.58	5.02	ø8/20	2	2	1	SLV	0.30	0.26	1029.15	2.50	11077.60	14974.00	11077.60	0.30	0.26	2545.92	2.50	11077.60	14974.00	11077.60	4.351
4.58	5.02	ø8/20	2	2	3	SLV	0.30	0.26	1393.12	2.50	11077.60	15152.40	11077.60	0.30	0.26	1170.92	2.50	11077.60	15152.40	11077.60	7.952
5.02	5.47	ø8/20	2	2	7	SLU	0.30	0.26	945.37	2.50	11077.60	15430.90	11077.60	0.30	0.26	88.40	2.50	11077.60	15430.90	11077.60	11.718
5.02	5.47	ø8/20	2	2	1	SLV	0.30	0.26	1029.15	2.50	11077.60	14960.90	11077.60	0.30	0.26	2545.92	2.50	11077.60	14960.90	11077.60	4.351
5.02	5.47	ø8/20	2	2	3	SLV	0.30	0.26	1393.12	2.50	11077.60	15139.30	11077.60	0.30	0.26	1170.92	2.50	11077.60	15139.30	11077.60	7.952

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
133	3	SLV	6785.56	-1393.12	-2051.13	2545.92	-4441.18	3931.27	9.54	56.86	2.00	10.12
	3	SLV	12193.40	-1393.12	3621.89	2545.92	-2057.70	2281.61	14.01	56.86	0.46	10.12
51	3	SLV	0.00	0.00	4416.93	0.00	0.00	4416.93	4.91	56.86	4.91	10.12

Pilastrata n. 15

Nodi: 27 -615 127

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>
2	R	20.00	35.00	4.00	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	2	0.00	-5490.66	428.24	428.24	-550.85	-550.85	-5490.66	1747.64	-2298.37	278.44	6.86	4.104
0.00	3	SLV	1	2	0.00	-5490.66	428.24	428.24	-550.85	-550.85	-5490.66	1747.64	-2298.37	278.44	6.86	4.104
2.50	1(e)	SLV	1	2	250.00	-4922.40	-792.75	-792.75	76.62	98.45	-4922.40	-4503.54	601.65	163.12	10.65	5.688
2.90	1	SLV	2	2	0.00	-3933.65	-1151.30	-1151.30	156.33	156.33	-3933.65	-4371.81	607.35	163.12	10.99	3.799
3.80	3	SLV	2	2	90.00	-3906.91	-338.18	-338.18	-997.51	-997.51	-3906.91	-732.97	-2271.68	267.19	9.16	2.266

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	10	SLE R	1	2	0.00	-6251.25	-31.86	37.01	0.00	6.16	9.83	137.41
0.00	8	SLE R	1	2	0.00	-5678.22	-29.10	35.70	0.00	6.16	8.97	125.34
0.00	14	SLE Q	1	2	0.00	-5635.65	-27.40	35.05	0.00	6.16	8.84	123.82
0.00	10	SLE R	1	2	0.00	-6251.25	-31.86	37.01	0.00	6.16	9.83	137.41
0.00	8	SLE R	1	2	0.00	-5678.22	-29.10	35.70	0.00	6.16	8.97	125.34
0.00	14	SLE Q	1	2	0.00	-5635.65	-27.40	35.05	0.00	6.16	8.84	123.82
2.50	10	SLE R	1	2	250.00	-5813.75	22.95	-7.52	0.00	6.16	8.35	119.42
2.50	8	SLE R	1	2	250.00	-5240.72	19.11	-10.11	0.00	6.16	7.53	107.89
2.50	14	SLE Q	1	2	250.00	-5198.15	18.84	-10.81	0.00	6.16	7.49	107.16
2.90	10	SLE R	2	2	0.00	-4825.00	59.84	-14.44	0.00	6.16	8.63	114.59
2.90	8	SLE R	2	2	0.00	-4251.97	54.94	-17.40	0.00	6.16	7.78	102.78
2.90	14	SLE Q	2	2	0.00	-4209.40	54.37	-18.26	0.00	6.16	7.72	101.98
3.80	10	SLE R	2	2	90.00	-4667.50	-120.12	-15.26	0.00	6.16	10.72	131.89
3.80	8	SLE R	2	2	90.00	-4094.47	-98.75	-17.53	0.00	6.16	9.24	114.43
3.80	14	SLE Q	2	2	90.00	-4051.90	-102.97	-18.30	0.00	6.16	9.36	115.21

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø8/20	2	2	5	SLU	0.35	0.16	25.36	2.50	6750.44	10528.60	6750.44	0.20	0.31	23.85	2.34	12377.90	12377.90	12377.90	>100
0.00	0.45	ø8/20	2	2	7	SLU	0.35	0.16	29.32	2.50	6750.44	10632.60	6750.44	0.20	0.31	23.08	2.35	12450.00	12450.00	12450.00	>100
0.00	0.45	ø8/20	2	2	1	SLV	0.35	0.16	130.62	2.50	6750.44	10349.60	6750.44	0.20	0.31	388.58	2.31	12252.80	12252.80	12252.80	31.532
0.00	0.45	ø8/20	2	2	3	SLV	0.35	0.16	275.01	2.50	6750.44	10333.70	6750.44	0.20	0.31	190.18	2.31	12241.70	12241.70	12241.70	24.546
0.45	2.05	ø8/20	2	2	5	SLU	0.35	0.16	25.36	2.50	6750.44	10516.20	6750.44	0.20	0.31	23.85	2.34	12369.30	12369.30	12369.30	>100
0.45	2.05	ø8/20	2	2	7	SLU	0.35	0.16	29.32	2.50	6750.44	10620.20	6750.44	0.20	0.31	23.08	2.35	12441.50	12441.50	12441.50	>100
0.45	2.05	ø8/20	2	2	1	SLV	0.35	0.16	130.62	2.50	6750.44	10340.00	6750.44	0.20	0.31	388.58	2.31	12246.10	12246.10	12246.10	31.515
0.45	2.05	ø8/20	2	2	3	SLV	0.35	0.16	275.01	2.50	6750.44	10324.20	6750.44	0.20	0.31	190.18	2.31	12235.00	12234.90	12234.90	24.546
2.05	2.50	ø8/20	2	2	5	SLU	0.35	0.16	25.36	2.50	6750.44	10472.10	6750.44	0.20	0.31	23.85	2.33	12338.60	12338.60	12338.60	>100
2.05	2.50	ø8/20	2	2	7	SLU	0.35	0.16	29.32	2.50	6750.44	10576.10	6750.44	0.20	0.31	23.08	2.34	12410.90	12410.90	12410.90	>100
2.05	2.50	ø8/20	2	2	1	SLV	0.35	0.16	130.62	2.50	6750.44	10306.10	6750.44	0.20	0.31	388.58	2.31	12222.20	12222.20	12222.20	31.453
2.05	2.50	ø8/20	2	2	3	SLV	0.35	0.16	275.01	2.50	6750.44	10290.30	6750.44	0.20	0.31	190.18	2.31	12211.10	12211.10	12211.10	24.546
2.90	3.80	ø8/20	2	2	7	SLU	0.35	0.16	264.33	2.50	6750.44	10408.20	6750.44	0.20	0.31	1.31	2.32	12293.90	12293.90	12293.90	25.538
2.90	3.80	ø8/20	2	2	1	SLV	0.35	0.16	505.57	2.50	6750.44	10176.90	6750.44	0.20	0.31	581.58	2.29	12130.90	12130.90	12130.90	13.352
2.90	3.80	ø8/20	2	2	3	SLV	0.35	0.16	930.60	2.50	6750.44	10161.10	6750.44	0.20	0.31	279.71	2.29	12119.70	12119.70	12119.70	7.254

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
-615	1	SLV	3933.65	-930.60	-0.00	-581.58	0.00	1097.39	6.03	56.86	0.41	10.12
	1	SLV	4485.14	-930.60	-0.00	-581.58	0.00	1097.39	6.77	56.86	0.36	10.12
127	3	SLV	0.00	0.00	2780.44	0.00	0.00	2780.44	3.97	56.86	3.97	10.12

Pilastrata n. 17

Nodi: 128 48

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.20	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
3.96	3	SLV	1	1	16.00	-6228.57	-660.75	-660.75	2514.67	2514.67	-6228.57	-1514.74	5843.40	99.84	8.95	2.322
3.96	3	SLV	1	1	16.00	-6228.57	-660.75	-660.75	2514.67	2514.67	-6228.57	-1514.74	5843.40	99.84	8.95	2.322
5.52	1	SLV	1	1	171.97	-4791.58	1792.85	1792.85	361.23	361.23	-4791.58	5716.85	1165.37	7.03	10.19	3.190

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_c <daN/cmq>	σ_f <daN/cmq>
3.96	10	SLE R	1	1	16.00	-7985.09	367.00	-110.47	0.00	10.18	16.02	204.03
3.96	9	SLE R	1	1	16.00	-7624.38	353.93	-105.75	0.00	10.18	15.37	195.54
3.96	14	SLE Q	1	1	16.00	-6964.39	329.90	-89.91	0.00	10.18	14.03	178.61
3.96	10	SLE R	1	1	16.00	-7985.09	367.00	-110.47	0.00	10.18	16.02	204.03
3.96	9	SLE R	1	1	16.00	-7624.38	353.93	-105.75	0.00	10.18	15.37	195.54
3.96	14	SLE Q	1	1	16.00	-6964.39	329.90	-89.91	0.00	10.18	14.03	178.61
5.52	10	SLE R	1	1	171.97	-7634.15	203.38	425.11	2.54	7.63	18.69	230.75
5.52	8	SLE R	1	1	171.97	-6944.81	202.84	384.01	2.54	7.63	17.32	213.24
5.52	14	SLE Q	1	1	171.97	-6613.45	187.49	364.08	2.54	7.63	16.34	201.44

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
3.96	4.41	ø8/20	2	2	7	SLU	0.30	0.26	136.05	2.50	11077.60	14952.90	11077.60	0.30	0.26	456.10	2.50	11077.60	14952.90	11077.60	24.288
3.96	4.41	ø8/20	2	2	1	SLV	0.30	0.26	699.23	2.50	11077.60	14714.70	11077.60	0.30	0.26	2101.75	2.50	11077.60	14714.70	11077.60	5.271
3.96	4.41	ø8/20	2	2	3	SLV	0.30	0.26	1745.23	2.50	11077.60	14570.80	11077.60	0.30	0.26	1036.28	2.50	11077.60	14570.80	11077.60	6.347
4.41	5.07	ø8/20	2	2	7	SLU	0.30	0.26	136.05	2.50	11077.60	14935.40	11077.60	0.30	0.26	456.10	2.50	11077.60	14935.40	11077.60	24.288
4.41	5.07	ø8/20	2	2	1	SLV	0.30	0.26	699.23	2.50	11077.60	14701.20	11077.60	0.30	0.26	2101.75	2.50	11077.60	14701.20	11077.60	5.271
4.41	5.07	ø8/20	2	2	3	SLV	0.30	0.26	1745.23	2.50	11077.60	14557.40	11077.60	0.30	0.26	1036.27	2.50	11077.60	14557.40	11077.60	6.347
5.07	5.52	ø8/20	2	2	7	SLU	0.30	0.26	136.05	2.50	11077.60	14909.90	11077.60	0.30	0.26	456.09	2.50	11077.60	14909.90	11077.60	24.288
5.07	5.52	ø8/20	2	2	1	SLV	0.30	0.26	699.23	2.50	11077.60	14681.60	11077.60	0.30	0.26	2101.75	2.50	11077.60	14681.60	11077.60	5.271
5.07	5.52	ø8/20	2	2	3	SLV	0.30	0.26	1745.23	2.50	11077.60	14537.80	11077.60	0.30	0.26	1036.27	2.50	11077.60	14537.80	11077.60	6.347

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
48	1	SLV	0.00	0.00	0.00	0.00	-5818.88	5818.88	6.47	56.86	6.47	10.12

Pilastrata n. 19

Nodi: 130 49

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.20	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
3.96	3	SLV	1	1	16.00	-5131.61	-1199.18	-1199.18	3690.32	3690.32	-5131.61	-1869.08	5685.09	102.66	8.41	1.542
3.96	3	SLV	1	1	16.00	-5131.61	-1199.18	-1199.18	3690.32	3690.32	-5131.61	-1869.08	5685.09	102.66	8.41	1.542
5.52	1(e)	SLV	1	1	171.97	-4790.27	2252.59	2252.59	12.34	-95.81	-4790.27	5720.64	-199.28	358.94	13.01	2.539

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>
3.96	8	SLE R	1	1	16.00	-5719.44	1651.13	-759.15	5.09	5.09	73.82	1248.98
3.96	14	SLE Q	1	1	16.00	-5476.12	1452.19	-719.30	5.09	5.09	66.46	1084.02
3.96	8	SLE R	1	1	16.00	-5719.44	1651.13	-759.15	5.09	5.09	73.82	1248.98
3.96	14	SLE Q	1	1	16.00	-5476.12	1452.19	-719.30	5.09	5.09	66.46	1084.02
5.52	10	SLE R	1	1	171.97	-5935.84	273.08	880.70	5.09	5.09	33.80	365.19
5.52	8	SLE R	1	1	171.97	-5368.50	314.94	827.62	5.09	5.09	33.63	383.34
5.52	14	SLE Q	1	1	171.97	-5125.17	266.73	787.27	5.09	5.09	30.98	349.07

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>
3.96	14	SLE Q	1	1	16.00	-5476.12	-719.30	1452.19	34.00	214.00	0.50	18.00	125.06	2.54	80.67	1084.02	0.37	0.08
3.96	11	SLE F	1	1	16.00	-5470.12	-724.36	1499.31	34.00	214.00	0.50	18.00	126.27	2.54	82.38	1126.61	0.33	0.07
3.96	14	SLE Q	1	1	16.00	-5476.12	-719.30	1452.19	34.00	214.00	0.50	18.00	125.06	2.54	80.67	1084.02	0.37	0.08
3.96	11	SLE F	1	1	16.00	-5470.12	-724.36	1499.31	34.00	214.00	0.50	18.00	126.27	2.54	82.38	1126.61	0.33	0.07
5.52	14	SLE Q	1	1	171.97	-5125.17	787.27	266.73	34.00	214.00	0.50	18.00	117.03	2.54	69.32	349.07	0.10	0.02
5.52	11	SLE F	1	1	171.97	-5119.17	790.40	279.27	34.00	214.00	0.50	18.00	116.38	2.54	68.39	357.33	0.10	0.02

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
3.96	4.41	ø8/20	2	2	7	SLU	0.30	0.26	1084.21	2.50	11077.60	14653.90	11077.60	0.30	0.26	1427.03	2.50	11077.60	14653.90	11077.60	7.763
3.96	4.41	ø8/20	2	2	5	SLU	0.30	0.26	1159.60	2.50	11077.60	14541.30	11077.60	0.30	0.26	1339.10	2.50	11077.60	14541.30	11077.60	8.272
3.96	4.41	ø8/20	2	2	1	SLV	0.30	0.26	1486.47	2.50	11077.60	14320.70	11077.60	0.30	0.26	2636.04	2.50	11077.60	14320.70	11077.60	4.202
3.96	4.41	ø8/20	2	2	3	SLV	0.30	0.26	2592.19	2.50	11077.60	14322.00	11077.60	0.30	0.26	1636.71	2.50	11077.60	14322.00	11077.60	4.273
4.41	5.07	ø8/20	2	2	7	SLU	0.30	0.26	1084.21	2.50	11077.60	14636.50	11077.60	0.30	0.26	1427.03	2.50	11077.60	14636.50	11077.60	7.763
4.41	5.07	ø8/20	2	2	5	SLU	0.30	0.26	1159.60	2.50	11077.60	14523.80	11077.60	0.30	0.26	1339.10	2.50	11077.60	14523.80	11077.60	8.272
4.41	5.07	ø8/20	2	2	1	SLV	0.30	0.26	1486.47	2.50	11077.60	14307.30	11077.60	0.30	0.26	2636.03	2.50	11077.60	14307.30	11077.60	4.202
4.41	5.07	ø8/20	2	2	3	SLV	0.30	0.26	2592.19	2.50	11077.60	14308.60	11077.60	0.30	0.26	1636.71	2.50	11077.60	14308.60	11077.60	4.273
5.07	5.52	ø8/20	2	2	7	SLU	0.30	0.26	1084.21	2.50	11077.60	14611.00	11077.60	0.30	0.26	1427.02	2.50	11077.60	14611.00	11077.60	7.763
5.07	5.52	ø8/20	2	2	5	SLU	0.30	0.26	1159.60	2.50	11077.60	14498.30	11077.60	0.30	0.26	1339.10	2.50	11077.60	14498.30	11077.60	8.272
5.07	5.52	ø8/20	2	2	1	SLV	0.30	0.26	1486.47	2.50	11077.60	14287.60	11077.60	0.30	0.26	2636.03	2.50	11077.60	14287.60	11077.60	4.202
5.07	5.52	ø8/20	2	2	3	SLV	0.30	0.26	2592.19	2.50	11077.60	14288.90	11077.60	0.30	0.26	1636.71	2.50	11077.60	14288.90	11077.60	4.273

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
49	1	SLV	0.00	0.00	0.00	0.00	-7515.78	7515.78	8.35	56.86	8.35	10.12

Pilastrata n. 22

Nodi: 25 125

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>
6	R	20.00	40.00	4.00	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	6	0.00	-5150.07	231.47	231.47	369.43	369.43	-5150.07	1472.78	2382.89	85.78	8.51	6.426
0.00	3	SLV	1	6	0.00	-5150.07	231.47	231.47	369.43	369.43	-5150.07	1472.78	2382.89	85.78	8.51	6.426
3.40	3	SLV	1	6	340.00	-4470.07	-372.27	-372.27	353.23	353.23	-4470.07	-2334.91	2270.64	97.73	7.39	6.347

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	10	SLE R	1	6	0.00	-7904.52	3.65	159.36	0.00	6.16	11.43	163.18
0.00	9	SLE R	1	6	0.00	-7766.86	3.30	153.51	0.00	6.16	11.18	159.69
0.00	14	SLE Q	1	6	0.00	-7461.39	2.90	142.86	0.00	6.16	10.66	152.49
0.00	10	SLE R	1	6	0.00	-7904.52	3.65	159.36	0.00	6.16	11.43	163.18
0.00	9	SLE R	1	6	0.00	-7766.86	3.30	153.51	0.00	6.16	11.18	159.69
0.00	14	SLE Q	1	6	0.00	-7461.39	2.90	142.86	0.00	6.16	10.66	152.49
3.40	10	SLE R	1	6	340.00	-7224.52	0.25	-276.26	0.00	6.16	12.35	172.19
3.40	9	SLE R	1	6	340.00	-7086.86	0.54	-266.53	0.00	6.16	12.06	168.18
3.40	14	SLE Q	1	6	340.00	-6781.39	0.85	-248.19	0.00	6.16	11.45	159.77

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.57	ø8/20	2	2	7	SLU	0.40	0.16	1.42	2.50	6750.44	12274.60	6750.44	0.20	0.36	169.09	2.36	14570.70	14570.70	14570.70	86.170
0.00	0.57	ø8/20	2	2	1	SLV	0.40	0.16	81.13	2.50	6750.44	12224.70	6750.44	0.20	0.36	172.77	2.36	14535.80	14535.80	14535.80	83.209
0.00	0.57	ø8/20	2	2	3	SLV	0.40	0.16	211.93	2.50	6750.44	12193.20	6750.44	0.20	0.36	159.85	2.36	14513.70	14513.70	14513.70	31.852
0.57	2.83	ø8/20	2	2	7	SLU	0.40	0.16	1.42	2.50	6750.44	12256.70	6750.44	0.20	0.36	169.09	2.36	14558.20	14558.20	14558.20	86.096
0.57	2.83	ø8/20	2	2	1	SLV	0.40	0.16	81.13	2.50	6750.44	12211.00	6750.44	0.20	0.36	172.77	2.36	14526.10	14526.10	14526.10	83.209
0.57	2.83	ø8/20	2	2	3	SLV	0.40	0.16	211.93	2.50	6750.44	12179.50	6750.44	0.20	0.36	159.85	2.35	14504.00	14504.00	14504.00	31.852
2.83	3.40	ø8/20	2	2	7	SLU	0.40	0.16	1.42	2.50	6750.44	12185.40	6750.44	0.20	0.36	169.09	2.35	14508.20	14508.20	14508.20	85.800
2.83	3.40	ø8/20	2	2	1	SLV	0.40	0.16	81.13	2.50	6750.44	12156.10	6750.44	0.20	0.36	172.77	2.35	14487.60	14487.60	14487.60	83.209
2.83	3.40	ø8/20	2	2	3	SLV	0.40	0.16	211.93	2.50	6750.44	12124.60	6750.44	0.20	0.36	159.85	2.35	14465.40	14465.40	14465.40	31.852

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
125	3	SLV	0.00	0.00	-2469.66	0.00	0.00	2469.66	3.09	56.86	3.09	10.12

Pilastrata n. 23

Nodi: 24 124 224 324

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>
5	R	30.00	45.00	4.20	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	5	0.00	-8875.17	552.61	552.61	1244.13	1244.13	-8875.17	3821.49	8650.65	81.56	8.42	6.947
0.00	3	SLV	1	5	0.00	-8875.17	552.61	552.61	1244.13	1244.13	-8875.17	3821.49	8650.65	81.56	8.42	6.947
3.40	3	SLV	1	5	340.00	-7727.67	-959.52	-959.52	-1065.62	-1065.62	-7727.67	-7213.82	-7972.46	247.50	5.99	7.491
3.80	3	SLV	2	5	0.00	-5504.42	-1234.83	-1234.83	-1301.90	-1301.90	-5504.42	-7202.02	-7757.65	247.50	6.19	5.899
3.80	3	SLV	2	5	0.00	-5504.42	-1234.83	-1234.83	-1301.90	-1301.90	-5504.42	-7202.02	-7757.65	247.50	6.19	5.899
6.10	3	SLV	2	5	230.00	-4728.17	1765.48	1765.48	1342.55	1342.55	-4728.17	9053.54	6734.59	57.66	5.81	5.087
6.60	1	SLV	3	5	0.00	-3445.47	3136.58	3136.58	99.82	99.82	-3445.47	13161.90	413.91	2.81	13.12	4.196
6.60	1	SLV	3	5	0.00	-3445.47	3136.58	3136.58	99.82	99.82	-3445.47	13161.90	413.91	2.81	13.12	4.196
7.00	1	SLV	3	5	39.50	-3312.15	4125.70	4125.70	75.12	75.12	-3312.15	13139.20	414.52	2.81	13.16	3.186

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	10	SLE R	1	5	0.00	-12093.00	29.93	411.76	0.00	15.27	11.34	159.03
0.00	9	SLE R	1	5	0.00	-11883.60	28.63	396.29	0.00	15.27	11.07	155.35
0.00	14	SLE Q	1	5	0.00	-11417.60	26.79	368.55	0.00	15.27	10.52	147.98
0.00	10	SLE R	1	5	0.00	-12093.00	29.93	411.76	0.00	15.27	11.34	159.03
0.00	9	SLE R	1	5	0.00	-11883.60	28.63	396.29	0.00	15.27	11.07	155.35
0.00	14	SLE Q	1	5	0.00	-11417.60	26.79	368.55	0.00	15.27	10.52	147.98
3.40	10	SLE R	1	5	340.00	-10945.50	-27.09	-715.98	0.00	15.27	13.04	177.60
3.40	14	SLE Q	1	5	340.00	-10270.10	-24.28	-641.41	0.00	15.27	11.97	163.52
3.80	10	SLE R	2	5	0.00	-8461.27	-155.32	-935.47	5.09	10.18	15.53	199.75
3.80	14	SLE Q	2	5	0.00	-7873.88	-141.23	-837.77	2.54	12.72	14.02	180.93
3.80	10	SLE R	2	5	0.00	-8461.27	-155.32	-935.47	5.09	10.18	15.53	199.75
3.80	14	SLE Q	2	5	0.00	-7873.88	-141.23	-837.77	2.54	12.72	14.02	180.93
6.10	10	SLE R	2	5	230.00	-7685.02	153.47	1642.55	7.63	7.63	25.45	304.84
6.10	14	SLE Q	2	5	230.00	-7097.63	139.54	1471.89	7.63	7.63	22.80	274.15
6.60	10	SLE R	3	5	0.00	-7004.30	44.63	2314.56	10.18	5.09	32.85	599.69
6.60	14	SLE Q	3	5	0.00	-6387.74	40.85	2072.91	10.18	5.09	29.44	530.31
6.60	10	SLE R	3	5	0.00	-7004.30	44.63	2314.56	10.18	5.09	32.85	599.69
6.60	14	SLE Q	3	5	0.00	-6387.74	40.85	2072.91	10.18	5.09	29.44	530.31
7.00	10	SLE R	3	5	39.50	-6870.99	4.23	3327.35	10.18	5.09	45.81	1049.22
7.00	14	SLE Q	3	5	39.50	-6254.43	3.61	2979.17	10.18	5.09	41.02	932.71

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>
6.10	14	SLE Q	2	5	230.00	-7097.63	1471.89	139.54	34.00	214.00	0.50	18.00	179.97	2.54	158.30	260.25	0.08	0.02
6.10	12	SLE F	2	5	230.00	-7173.36	1494.29	141.06	34.00	214.00	0.50	18.00	180.65	2.54	159.26	265.68	0.08	0.02
6.60	14	SLE Q	3	5	0.00	-6387.74	2072.91	40.85	34.00	214.00	0.50	18.00	158.08	5.09	254.70	530.31	0.15	0.04
6.60	12	SLE F	3	5	0.00	-6468.01	2104.67	41.28	34.00	214.00	0.50	18.00	158.17	5.09	254.96	539.46	0.16	0.04
6.60	14	SLE Q	3	5	0.00	-6387.74	2072.91	40.85	34.00	214.00	0.50	18.00	158.08	5.09	254.70	530.31	0.15	0.04
6.60	12	SLE F	3	5	0.00	-6468.01	2104.67	41.28	34.00	214.00	0.50	18.00	158.17	5.09	254.96	539.46	0.16	0.04
7.00	14	SLE Q	3	5	39.50	-6254.43	2979.17	3.61	34.00	214.00	0.50	18.00	169.73	5.09	287.64	932.71	0.27	0.08
7.00	12	SLE F	3	5	39.50	-6334.69	3024.96	3.66	34.00	214.00	0.50	18.00	169.77	5.09	287.76	948.08	0.28	0.08

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.57	ø8/20	2	2	7	SLU	0.45	0.26	23.02	2.50	11077.60	22439.80	11077.60	0.30	0.41	437.70	2.50	17568.40	23725.40	17568.40	40.138
0.00	0.57	ø8/20	2	2	5	SLU	0.45	0.26	24.94	2.50	11077.60	22410.60	11077.60	0.30	0.41	400.66	2.50	17568.40	23694.50	17568.40	43.848
0.00	0.57	ø8/20	2	2	1	SLV	0.45	0.26	292.29	2.50	11077.60	22167.20	11077.60	0.30	0.41	447.97	2.50	17568.40	23437.20	17568.40	37.900
0.00	0.57	ø8/20	2	2	3	SLV	0.45	0.26	679.28	2.50	11077.60	22175.30	11077.60	0.30	0.41	410.65	2.50	17568.40	23445.80	17568.40	16.308
0.57	2.83	ø8/20	2	2	7	SLU	0.45	0.26	23.02	2.50	11077.60	22406.90	11077.60	0.30	0.41	437.70	2.50	17568.40	23690.60	17568.40	40.138
0.57	2.83	ø8/20	2	2	5	SLU	0.45	0.26	24.94	2.50	11077.60	22377.60	11077.60	0.30	0.41	400.66	2.50	17568.40	23659.70	17568.40	43.848
0.57	2.83	ø8/20	2	2	1	SLV	0.45	0.26	292.29	2.50	11077.60	22141.90	11077.60	0.30	0.41	447.97	2.50	17568.40	23410.50	17568.40	37.900
0.57	2.83	ø8/20	2	2	3	SLV	0.45	0.26	679.28	2.50	11077.60	22150.00	11077.60	0.30	0.41	410.65	2.50	17568.40	23419.00	17568.40	16.308
2.83	3.40	ø8/20	2	2	7	SLU	0.45	0.26	23.02	2.50	11077.60	22275.20	11077.60	0.30	0.41	437.70	2.50	17568.40	23551.40	17568.40	40.138
2.83	3.40	ø8/20	2	2	5	SLU	0.45	0.26	24.94	2.50	11077.60	22246.00	11077.60	0.30	0.41	400.66	2.50	17568.40	23520.50	17568.40	43.848
2.83	3.40	ø8/20	2	2	1	SLV	0.45	0.26	292.29	2.50	11077.60	22040.60	11077.60	0.30	0.41	447.97	2.50	17568.40	23303.40	17568.40	37.900
2.83	3.40	ø8/20	2	2	3	SLV	0.45	0.26	679.28	2.50	11077.60	22048.70	11077.60	0.30	0.41	410.65	2.50	17568.40	23311.90	17568.40	16.308
3.80	4.27	ø8/20	2	2	7	SLU	0.45	0.26	179.15	2.50	11077.60	21798.90	11077.60	0.30	0.41	1478.99	2.50	17568.40	23047.80	17568.40	11.879
3.80	4.27	ø8/20	2	2	1	SLV	0.45	0.26	575.61	2.50	11077.60	21727.50	11077.60	0.30	0.41	1581.93	2.50	17568.40	22972.30	17568.40	11.106
3.80	4.27	ø8/20	2	2	3	SLV	0.45	0.26	1149.37	2.50	11077.60	21683.20	11077.60	0.30	0.41	1301.89	2.50	17568.40	22925.50	17568.40	9.638
4.27	6.13	ø8/20	2	2	7	SLU	0.45	0.26	179.15	2.50	11077.60	21771.80	11077.60	0.30	0.41	1478.99	2.50	17568.40	23019.10	17568.40	11.879
4.27	6.13	ø8/20	2	2	1	SLV	0.45	0.26	575.61	2.50	11077.60	21706.70	11077.60	0.30	0.41	1581.93	2.50	17568.40	22950.30	17568.40	11.106
4.27	6.13	ø8/20	2	2	3	SLV	0.45	0.26	1149.37	2.50	11077.60	21662.30	11077.60	0.30	0.41	1301.89	2.50	17568.40	22903.40	17568.40	9.638
6.13	6.10	ø8/20	2	2	7	SLU	0.45	0.26	179.15	2.50	11077.60	21665.30	11077.60	0.30	0.41	1478.99	2.50	17568.40	22906.50	17568.40	11.879
6.13	6.10	ø8/20	2	2	1	SLV	0.45	0.26	575.61	2.50	11077.60	21624.70	11077.60	0.30	0.41	1581.93	2.50	17568.40	22863.60	17568.40	11.106
6.13	6.10	ø8/20	2	2	3	SLV	0.45	0.26	1149.37	2.50	11077.60	21580.40	11077.60	0.30	0.41	1301.89	2.50	17568.40	22816.80	17568.40	9.638
6.60	7.00	ø8/20	2	2	7	SLU	0.45	0.26	133.56	2.50	11077.60	21548.00	11077.60	0.30	0.41	3382.56	2.50	17568.40	22782.50	17568.40	5.194
6.60	7.00	ø8/20	2	2	3	SLV	0.45	0.26	744.59	2.50	11077.60	21522.60	11077.60	0.30	0.41	2705.91	2.50	17568.40	22755.70	17568.40	6.493

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
124	3	SLV	10243.30	1149.37	5903.36	1581.93	0.00	7227.97	10.36	56.86	2.77	10.12

	4	SLV	8929.12	1149.37	5641.82	1581.93	0.00	6973.00	9.44	56.86	2.83	10.12
224	3	SLV	3745.06	-744.59	-4035.16	2705.91	0.00	5492.54	5.69	56.86	2.91	10.12
	3	SLV	9030.43	-744.59	3351.47	2705.91	0.00	3757.36	7.70	56.86	1.01	10.12
324	1	SLV	0.00	0.00	-775.23	0.00	-12844.90	12868.30	9.53	56.86	9.53	10.12

Pilastrata n. 26

Nodi: 123 323

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>
3	R	25.00	60.00	4.20	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
4.30	3	SLV	1	3	50.00	-9630.27	2095.95	2095.95	519.00	519.00	-9630.27	16304.90	3998.59	53.44	6.38	7.775
4.30	3	SLV	1	3	50.00	-9630.27	2095.95	2095.95	519.00	519.00	-9630.27	16304.90	3998.59	53.44	6.38	7.775
6.87	3	SLV	1	3	306.71	-8667.61	-2249.57	-2249.57	-1002.96	-1002.96	-8667.61	-13139.20	-5692.24	250.31	5.73	5.814

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>
4.30	10	SLE R	1	3	50.00	-13257.30	137.56	549.54	0.00	15.27	12.50	171.56
4.30	8	SLE R	1	3	50.00	-12475.90	124.70	530.72	0.00	15.27	11.77	161.78
4.30	14	SLE Q	1	3	50.00	-12143.60	118.47	496.14	0.00	15.27	11.31	155.65
4.30	10	SLE R	1	3	50.00	-13257.30	137.56	549.54	0.00	15.27	12.50	171.56
4.30	8	SLE R	1	3	50.00	-12475.90	124.70	530.72	0.00	15.27	11.77	161.78
4.30	14	SLE Q	1	3	50.00	-12143.60	118.47	496.14	0.00	15.27	11.31	155.65
6.87	10	SLE R	1	3	306.71	-12294.70	-925.03	-809.21	5.09	10.18	27.35	315.45
6.87	14	SLE Q	1	3	306.71	-11181.00	-826.58	-737.38	5.09	10.18	24.53	283.91

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
4.30	4.90	ø8/20	2	2	7	SLU	0.60	0.21	546.66	2.50	8914.04	24040.00	8914.04	0.25	0.56	701.19	2.50	24059.30	27035.30	24059.30	16.306
4.30	4.90	ø8/20	2	2	3	SLV	0.60	0.21	588.29	2.50	8914.04	23683.10	8914.04	0.25	0.56	1585.74	2.50	24059.30	26633.90	24059.30	15.152
4.30	4.90	ø8/20	2	2	1	SLV	0.60	0.21	619.76	2.50	8914.04	23623.10	8914.04	0.25	0.56	1207.37	2.50	24059.30	26566.40	24059.30	14.383
4.90	6.27	ø8/20	2	2	7	SLU	0.60	0.21	546.66	2.50	8914.04	24002.60	8914.04	0.25	0.56	701.19	2.50	24059.30	26993.20	24059.30	16.306
4.90	6.27	ø8/20	2	2	3	SLV	0.60	0.21	588.29	2.50	8914.04	23654.30	8914.04	0.25	0.56	1585.74	2.50	24059.30	26601.50	24059.30	15.152
4.90	6.27	ø8/20	2	2	1	SLV	0.60	0.21	619.76	2.50	8914.04	23594.30	8914.04	0.25	0.56	1207.37	2.50	24059.30	26534.10	24059.30	14.383
6.27	6.87	ø8/20	2	2	7	SLU	0.60	0.21	546.66	2.50	8914.04	23917.40	8914.04	0.25	0.56	701.19	2.50	24059.30	26897.40	24059.30	16.306
6.27	6.87	ø8/20	2	2	3	SLV	0.60	0.21	588.29	2.50	8914.04	23588.80	8914.04	0.25	0.56	1585.74	2.50	24059.30	26527.80	24059.30	15.152
6.27	6.87	ø8/20	2	2	1	SLV	0.60	0.21	619.76	2.50	8914.04	23528.80	8914.04	0.25	0.56	1207.37	2.50	24059.30	26460.40	24059.30	14.383

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
323	3	SLV	0.00	0.00	0.00	0.00	7052.01	7052.01	4.70	56.86	4.70	10.12

Pilastrata n. 27

Nodi: 20 120

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>
6	R	20.00	40.00	4.00	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	3	SLV	1	6	0.00	-5210.74	222.62	222.62	400.98	400.98	-5210.74	1348.11	2387.25	86.13	8.68	5.978
0.00	3	SLV	1	6	0.00	-5210.74	222.62	222.62	400.98	400.98	-5210.74	1348.11	2387.25	86.13	8.68	5.978
3.40	3	SLV	1	6	340.00	-4530.74	-334.87	-334.87	-405.09	-405.09	-4530.74	-1854.84	-2314.22	264.38	8.16	5.643

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	10	SLE R	1	6	0.00	-6737.47	5.35	129.87	0.00	6.16	9.73	138.66
0.00	9	SLE R	1	6	0.00	-6643.49	5.22	124.95	0.00	6.16	9.54	136.14
0.00	14	SLE Q	1	6	0.00	-6407.30	5.09	116.19	0.00	6.16	9.14	130.52
0.00	10	SLE R	1	6	0.00	-6737.47	5.35	129.87	0.00	6.16	9.73	138.66
0.00	9	SLE R	1	6	0.00	-6643.49	5.22	124.95	0.00	6.16	9.54	136.14
0.00	14	SLE Q	1	6	0.00	-6407.30	5.09	116.19	0.00	6.16	9.14	130.52
3.40	10	SLE R	1	6	340.00	-6057.47	-2.69	-220.97	0.00	6.16	10.28	143.15
3.40	9	SLE R	1	6	340.00	-5963.49	-2.76	-212.78	0.00	6.16	10.05	140.09
3.40	14	SLE Q	1	6	340.00	-5727.30	-2.95	-197.70	0.00	6.16	9.56	133.41

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.57	ø8/20	2	2	7	SLU	0.40	0.16	3.37	2.50	6750.44	12087.30	6750.44	0.20	0.36	136.18	2.34	14439.10	14439.10	14439.10	>100
0.00	0.57	ø8/20	2	2	5	SLU	0.40	0.16	4.65	2.50	6750.44	12087.50	6750.44	0.20	0.36	124.53	2.34	14439.20	14439.20	14439.20	>100
0.00	0.57	ø8/20	2	2	1	SLV	0.40	0.16	105.61	2.50	6750.44	12069.50	6750.44	0.20	0.36	141.20	2.34	14426.50	14426.50	14426.50	63.916
0.00	0.57	ø8/20	2	2	3	SLV	0.40	0.16	237.06	2.50	6750.44	11930.70	6750.44	0.20	0.36	137.79	2.33	14328.10	14328.10	14328.10	28.476
0.57	2.83	ø8/20	2	2	7	SLU	0.40	0.16	3.37	2.50	6750.44	12069.50	6750.44	0.20	0.36	136.18	2.34	14426.50	14426.50	14426.50	>100
0.57	2.83	ø8/20	2	2	5	SLU	0.40	0.16	4.65	2.50	6750.44	12069.70	6750.44	0.20	0.36	124.53	2.34	14426.60	14426.60	14426.60	>100
0.57	2.83	ø8/20	2	2	1	SLV	0.40	0.16	105.61	2.50	6750.44	12055.80	6750.44	0.20	0.36	141.20	2.34	14416.80	14416.80	14416.80	63.916

0.57	2.83	ø8/20	2	2	3	SLV	0.40	0.16	237.06	2.50	6750.44	11917.00	6750.44	0.20	0.36	137.79	2.32	14318.30	14318.30	14318.30	28.476
2.83	3.40	ø8/20	2	2	7	SLU	0.40	0.16	3.37	2.50	6750.44	11998.20	6750.44	0.20	0.36	136.18	2.33	14376.00	14376.00	14376.00	>100
2.83	3.40	ø8/20	2	2	5	SLU	0.40	0.16	4.65	2.50	6750.44	11998.30	6750.44	0.20	0.36	124.53	2.33	14376.10	14376.10	14376.10	>100
2.83	3.40	ø8/20	2	2	1	SLV	0.40	0.16	105.61	2.50	6750.44	12000.90	6750.44	0.20	0.36	141.20	2.33	14378.00	14378.00	14378.00	63.916
2.83	3.40	ø8/20	2	2	3	SLV	0.40	0.16	237.06	2.50	6750.44	11862.10	6750.44	0.20	0.36	137.79	2.32	14279.20	14279.20	14279.20	28.476

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
120	3	SLV	0.00	0.00	-2800.37	0.00	0.00	2800.37	3.50	56.86	3.50	10.12

Pilastrata n. 29

Nodi: 115 215

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.20	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
3.96	1	SLV	1	1	16.00	-5047.70	1724.59	1724.59	-726.10	-726.10	-5047.70	5600.82	-2293.54	343.12	7.53	3.234
3.96	1	SLV	1	1	16.00	-5047.70	1724.59	1724.59	-726.10	-726.10	-5047.70	5600.82	-2293.54	343.12	7.53	3.234
6.10	1	SLV	1	1	230.00	-4566.20	-1890.21	-1890.21	522.05	522.05	-4566.20	-5668.32	1534.78	170.16	9.25	2.995

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>
3.96	10	SLE R	1	1	16.00	-6080.24	-264.54	504.50	2.54	7.63	21.62	252.10
3.96	8	SLE R	1	1	16.00	-5627.32	-259.62	483.52	2.54	7.63	20.89	242.07
3.96	14	SLE Q	1	1	16.00	-5411.82	-243.15	457.73	2.54	7.63	19.70	228.94
3.96	10	SLE R	1	1	16.00	-6080.24	-264.54	504.50	2.54	7.63	21.62	252.10
3.96	8	SLE R	1	1	16.00	-5627.32	-259.62	483.52	2.54	7.63	20.89	242.07
3.96	14	SLE Q	1	1	16.00	-5411.82	-243.15	457.73	2.54	7.63	19.70	228.94
6.10	10	SLE R	1	1	230.00	-5598.74	362.36	-460.56	2.54	7.63	23.07	263.79
6.10	14	SLE Q	1	1	230.00	-4930.32	323.79	-417.28	2.54	7.63	20.81	237.10

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_Y	Br_Z	CC	TCC	$bw_{,Y}$ <m>	$d_{,Y}$ <m>	$Vsdu_{,Y}$ <daN>	$ctg\theta_{,Y}$	$VRsd_{,Y}$ <daN>	$VRcd_{,Y}$ <daN>	$Vrd_{,Y}$ <daN>	$bw_{,Z}$ <m>	$d_{,Z}$ <m>	$Vsdu_{,Z}$ <daN>	$ctg\theta_{,Z}$	$VRsd_{,Z}$ <daN>	$VRcd_{,Z}$ <daN>	$Vrd_{,Z}$ <daN>	Sic.
3.96	4.41	ø8/20	2	2	7	SLU	0.30	0.26	386.78	2.50	11077.60	14615.50	11077.60	0.30	0.26	597.78	2.50	11077.60	14615.50	11077.60	18.531
3.96	4.41	ø8/20	2	2	1	SLV	0.30	0.26	581.11	2.50	11077.60	14316.00	11077.60	0.30	0.26	1688.98	2.50	11077.60	14316.00	11077.60	6.559
3.96	4.41	ø8/20	2	2	3	SLV	0.30	0.26	916.77	2.50	11077.60	14294.80	11077.60	0.30	0.26	1104.83	2.50	11077.60	14294.80	11077.60	10.027
4.41	5.65	ø8/20	2	2	7	SLU	0.30	0.26	386.78	2.50	11077.60	14598.00	11077.60	0.30	0.26	597.78	2.50	11077.60	14598.00	11077.60	18.531
4.41	5.65	ø8/20	2	2	1	SLV	0.30	0.26	581.11	2.50	11077.60	14302.60	11077.60	0.30	0.26	1688.98	2.50	11077.60	14302.60	11077.60	6.559
4.41	5.65	ø8/20	2	2	3	SLV	0.30	0.26	916.77	2.50	11077.60	14281.40	11077.60	0.30	0.26	1104.83	2.50	11077.60	14281.40	11077.60	10.027
5.65	6.10	ø8/20	2	2	7	SLU	0.30	0.26	386.78	2.50	11077.60	14550.00	11077.60	0.30	0.26	597.78	2.50	11077.60	14550.00	11077.60	18.531
5.65	6.10	ø8/20	2	2	1	SLV	0.30	0.26	581.11	2.50	11077.60	14265.70	11077.60	0.30	0.26	1688.98	2.50	11077.60	14265.70	11077.60	6.559
5.65	6.10	ø8/20	2	2	3	SLV	0.30	0.26	916.77	2.50	11077.60	14244.50	11077.60	0.30	0.26	1104.83	2.50	11077.60	14244.50	11077.60	10.027

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
215	1	SLV	0.00	0.00	0.00	0.00	5696.72	5696.72	6.33	56.86	6.33	10.12

Pilastrata n. 34

Nodi: 1 101

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.20	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	1	SLV	1	1	0.00	-404.53	-3987.08	-3987.08	137.00	137.00	-404.53	-5252.18	102.63	179.30	14.62	1.317
0.00	1	SLV	1	1	0.00	-404.53	-3987.08	-3987.08	137.00	137.00	-404.53	-5252.18	102.63	179.30	14.62	1.317
3.46	1	SLV	1	1	346.00	373.97	-3267.57	-3267.57	360.54	360.54	373.97	-5181.66	552.43	177.19	13.62	1.585

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	10	SLE R	1	1	0.00	-4961.79	-81.30	1.07	0.00	10.18	6.17	86.26
0.00	8	SLE R	1	1	0.00	-4715.59	-79.35	-0.17	0.00	10.18	5.88	82.21
0.00	14	SLE Q	1	1	0.00	-4660.84	-82.82	-1.15	0.00	10.18	5.91	82.27
0.00	10	SLE R	1	1	0.00	-4961.79	-81.30	1.07	0.00	10.18	6.17	86.26
0.00	8	SLE R	1	1	0.00	-4715.59	-79.35	-0.17	0.00	10.18	5.88	82.21
0.00	14	SLE Q	1	1	0.00	-4660.84	-82.82	-1.15	0.00	10.18	5.91	82.27
3.46	10	SLE R	1	1	346.00	-4183.29	176.87	-40.84	0.00	10.18	7.82	100.73
3.46	8	SLE R	1	1	346.00	-3937.09	175.51	-34.22	0.00	10.18	7.44	95.71
3.46	14	SLE Q	1	1	346.00	-3882.34	177.83	-32.17	0.00	10.18	7.39	94.98

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_Y	Br_Z	CC	TCC	$bw_{,Y}$ <m>	$d_{,Y}$ <m>	$Vsdu_{,Y}$ <daN>	$ctg\theta_{,Y}$	$VRsd_{,Y}$ <daN>	$VRcd_{,Y}$ <daN>	$Vrd_{,Y}$ <daN>	$bw_{,Z}$ <m>	$d_{,Z}$ <m>	$Vsdu_{,Z}$ <daN>	$ctg\theta_{,Z}$	$VRsd_{,Z}$ <daN>	$VRcd_{,Z}$ <daN>	$Vrd_{,Z}$ <daN>	Sic.
0.00	0.58	ø8/20	2	2	7	SLU	0.30	0.26	96.34	2.50	11077.60	14413.10	11077.60	0.30	0.26	16.59	2.50	11077.60	14413.10	11077.60	>100

0.00	0.58	ø8/20	2	2	6	SLU	0.30	0.26	96.93	2.50	11077.60	14376.70	11077.60	0.30	0.26	12.60	2.50	11077.60	14376.70	11077.60	>100
0.00	0.58	ø8/20	2	2	1	SLV	0.30	0.26	190.64	2.50	11077.60	14732.00	11077.60	0.30	0.26	2095.72	2.50	11077.60	14732.00	11077.60	5.286
0.00	0.58	ø8/20	2	2	3	SLV	0.30	0.26	281.27	2.50	11077.60	15026.80	11077.60	0.30	0.26	705.83	2.50	11077.60	15026.80	11077.60	15.694
0.58	2.88	ø8/20	2	2	7	SLU	0.30	0.26	96.34	2.50	11077.60	14390.80	11077.60	0.30	0.26	16.59	2.50	11077.60	14390.80	11077.60	>100
0.58	2.88	ø8/20	2	2	6	SLU	0.30	0.26	96.93	2.50	11077.60	14354.40	11077.60	0.30	0.26	12.60	2.50	11077.60	14354.40	11077.60	>100
0.58	2.88	ø8/20	2	2	1	SLV	0.30	0.26	190.64	2.50	11077.60	14714.80	11077.60	0.30	0.26	2095.72	2.50	11077.60	14714.80	11077.60	5.286
0.58	2.88	ø8/20	2	2	3	SLV	0.30	0.26	281.27	2.50	11077.60	15009.60	11077.60	0.30	0.26	705.83	2.50	11077.60	15009.60	11077.60	15.694
2.88	3.46	ø8/20	2	2	7	SLU	0.30	0.26	96.34	2.50	11077.60	14301.40	11077.60	0.30	0.26	16.59	2.50	11077.60	14301.40	11077.60	>100
2.88	3.46	ø8/20	2	2	6	SLU	0.30	0.26	96.93	2.50	11077.60	14265.10	11077.60	0.30	0.26	12.60	2.50	11077.60	14265.10	11077.60	>100
2.88	3.46	ø8/20	2	2	1	SLV	0.30	0.26	190.64	2.50	11077.60	14646.10	11077.60	0.30	0.26	2095.72	2.50	11077.60	14646.10	11077.60	5.286
2.88	3.46	ø8/20	2	2	3	SLV	0.30	0.26	281.27	2.50	11077.60	14940.90	11077.60	0.30	0.26	705.83	2.50	11077.60	14940.90	11077.60	15.694

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
101	3	SLV	0.00	0.00	-4594.46	0.00	-2842.09	5402.46	6.00	56.86	6.00	10.12

Pilastrate n. 36 39 41

36 (a) Nodi: 3 103
39 (b) Nodi: 7 107
41 (c) Nodi: 8 108

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>
7	R	20.00	30.00	3.90	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	In	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	1	SLV	b	1	7	0.00	-3732.95	-813.99	-813.99	-1222.89	-1222.89	-3732.95	-1475.28	-2278.14	255.94	5.75	1.848
0.00	1	SLV	b	1	7	0.00	-3732.95	-813.99	-813.99	-1222.89	-1222.89	-3732.95	-1475.28	-2278.14	255.94	5.75	1.848
3.80	1	SLV	c	1	7	380.00	-2627.49	-587.09	-587.09	1215.37	1215.37	-2627.49	-1060.86	2267.27	99.14	6.82	1.855

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	In	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	a	1	7	0.00	-5716.69	-9.57	-16.25	0.00	6.79	9.01	130.87
0.00	8	SLE R	c	1	7	0.00	-3842.09	-9.75	14.53	0.00	6.79	6.30	90.33
0.00	14	SLE Q	a	1	7	0.00	-5050.66	-8.71	-11.74	0.00	6.79	7.90	114.91
0.00	10	SLE R	a	1	7	0.00	-5716.69	-9.57	-16.25	0.00	6.79	9.01	130.87
0.00	8	SLE R	c	1	7	0.00	-3842.09	-9.75	14.53	0.00	6.79	6.30	90.33
0.00	14	SLE Q	a	1	7	0.00	-5050.66	-8.71	-11.74	0.00	6.79	7.90	114.91
3.80	10	SLE R	a	1	7	380.00	-5146.69	6.56	-46.52	0.00	6.79	8.92	126.93
3.80	8	SLE R	c	1	7	380.00	-3272.09	8.15	-69.68	0.00	6.79	6.97	94.64
3.80	14	SLE Q	a	1	7	380.00	-4480.66	6.39	-49.80	0.00	6.79	8.06	113.64

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	In	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.63	ø8/20	2	2	6	SLU	c	0.30	0.16	6.74	2.50	6750.44	8881.04	6750.44	0.20	0.26	29.23	2.31	10257.50	10257.50	10257.50	>100
0.00	0.63	ø8/20	2	2	7	SLU	b	0.30	0.16	13.23	2.50	6750.44	8963.77	6750.44	0.20	0.26	12.40	2.33	10314.10	10314.10	10314.10	>100
0.00	0.63	ø8/20	2	2	3	SLV	b	0.30	0.16	211.89	2.50	6750.44	8759.17	6750.44	0.20	0.26	599.45	2.30	10173.70	10173.70	10173.70	16.972
0.00	0.63	ø8/20	2	2	1	SLV	b	0.30	0.16	644.87	2.50	6750.44	8747.12	6750.44	0.20	0.26	371.11	2.29	10165.40	10165.40	10165.40	10.468
0.63	3.17	ø8/20	2	2	6	SLU	c	0.30	0.16	6.74	2.50	6750.44	8866.09	6750.44	0.20	0.26	29.23	2.31	10247.30	10247.30	10247.30	>100
0.63	3.17	ø8/20	2	2	7	SLU	b	0.30	0.16	13.23	2.50	6750.44	8948.83	6750.44	0.20	0.26	12.40	2.33	10303.90	10303.90	10303.90	>100
0.63	3.17	ø8/20	2	2	3	SLV	b	0.30	0.16	211.89	2.50	6750.44	8747.67	6750.44	0.20	0.26	599.45	2.29	10165.70	10165.70	10165.70	16.958
0.63	3.17	ø8/20	2	2	1	SLV	b	0.30	0.16	644.87	2.50	6750.44	8735.62	6750.44	0.20	0.26	371.11	2.29	10157.40	10157.40	10157.40	10.468
3.17	3.80	ø8/20	2	2	6	SLU	c	0.30	0.16	6.74	2.50	6750.44	8806.30	6750.44	0.20	0.26	29.23	2.30	10206.20	10206.20	10206.20	>100
3.17	3.80	ø8/20	2	2	7	SLU	b	0.30	0.16	13.23	2.50	6750.44	8889.04	6750.44	0.20	0.26	12.40	2.32	10263.00	10263.00	10263.00	>100
3.17	3.80	ø8/20	2	2	3	SLV	b	0.30	0.16	211.89	2.50	6750.44	8701.68	6750.44	0.20	0.26	599.45	2.29	10133.90	10133.90	10133.90	16.905
3.17	3.80	ø8/20	2	2	1	SLV	b	0.30	0.16	644.87	2.50	6750.44	8689.63	6750.44	0.20	0.26	371.11	2.29	10125.50	10125.50	10125.50	10.468

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
103	1	SLV	0.00	0.00	2238.90	0.00	0.00	2238.90	3.73	56.86	3.73	10.12
107	1	SLV	0.00	0.00	1969.61	0.00	0.00	1969.61	3.28	56.86	3.28	10.12
108	1	SLV	0.00	0.00	-2213.51	0.00	0.00	2213.51	3.69	56.86	3.69	10.12

Pilastrata n. 38

Nodi: 5 105

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.20	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	1	SLV	1	1	0.00	-6389.65	-4035.51	-4035.51	1011.38	1011.38	-6389.65	-5860.26	1512.86	170.16	8.93	1.455
0.00	1	SLV	1	1	0.00	-6389.65	-4035.51	-4035.51	1011.38	1011.38	-6389.65	-5860.26	1512.86	170.16	8.93	1.455
3.80	1	SLV	1	1	380.00	-5534.65	3996.66	3996.66	-601.46	-601.46	-5534.65	5827.83	-776.98	355.78	11.19	1.455

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	10	SLE R	1	1	0.00	-7522.61	52.47	-48.83	0.00	10.18	8.93	126.32

0.00	8	SLE R	1	1	0.00	-6788.35	49.24	-43.37	0.00	10.18	8.08	114.22
0.00	14	SLE Q	1	1	0.00	-6611.09	46.52	-42.86	0.00	10.18	7.86	111.09
0.00	10	SLE R	1	1	0.00	-7522.61	52.47	-48.83	0.00	10.18	8.93	126.32
0.00	8	SLE R	1	1	0.00	-6788.35	49.24	-43.37	0.00	10.18	8.08	114.22
0.00	14	SLE Q	1	1	0.00	-6611.09	46.52	-42.86	0.00	10.18	7.86	111.09
3.80	10	SLE R	1	1	380.00	-6667.61	28.40	55.58	0.00	10.18	7.82	110.87
3.80	8	SLE R	1	1	380.00	-5933.35	30.43	49.44	0.00	10.18	7.05	99.63
3.80	14	SLE Q	1	1	380.00	-5756.09	31.96	48.79	0.00	10.18	6.89	97.27

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.63	ø8/20	2	2	7	SLU	0.30	0.26	8.88	2.50	11077.60	14870.40	11077.60	0.30	0.26	36.16	2.50	11077.60	14870.40	11077.60	>100
0.00	0.63	ø8/20	2	2	1	SLV	0.30	0.26	423.88	2.50	11077.60	14455.90	11077.60	0.30	0.26	2113.73	2.50	11077.60	14455.90	11077.60	5.241
0.00	0.63	ø8/20	2	2	3	SLV	0.30	0.26	1110.47	2.50	11077.60	14478.10	11077.60	0.30	0.26	691.68	2.50	11077.60	14478.10	11077.60	9.976
0.63	3.17	ø8/20	2	2	7	SLU	0.30	0.26	8.88	2.50	11077.60	14845.80	11077.60	0.30	0.26	36.16	2.50	11077.60	14845.80	11077.60	>100
0.63	3.17	ø8/20	2	2	1	SLV	0.30	0.26	423.88	2.50	11077.60	14437.10	11077.60	0.30	0.26	2113.73	2.50	11077.60	14437.10	11077.60	5.241
0.63	3.17	ø8/20	2	2	3	SLV	0.30	0.26	1110.47	2.50	11077.60	14459.20	11077.60	0.30	0.26	691.68	2.50	11077.60	14459.20	11077.60	9.976
3.17	3.80	ø8/20	2	2	7	SLU	0.30	0.26	8.88	2.50	11077.60	14747.70	11077.60	0.30	0.26	36.16	2.50	11077.60	14747.70	11077.60	>100
3.17	3.80	ø8/20	2	2	1	SLV	0.30	0.26	423.88	2.50	11077.60	14361.60	11077.60	0.30	0.26	2113.73	2.50	11077.60	14361.60	11077.60	5.241
3.17	3.80	ø8/20	2	2	3	SLV	0.30	0.26	1110.47	2.50	11077.60	14383.70	11077.60	0.30	0.26	691.68	2.50	11077.60	14383.70	11077.60	9.976

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
105	1	SLV	0.00	0.00	0.00	0.00	-5941.08	5941.08	6.60	56.86	6.60	10.12

Pilastrata n. 43

Nodi: 10 110

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Fcm <daN/cmq>	Fctm <daN/cmq>	Fcd <daN/cmq>	Fcd (Tag) <daN/cmq>	Fctd <daN/cmq>	Fym <daN/cmq>	Fyd <daN/cmq>	Fyd (Tag) <daN/cmq>
1	R	30.00	30.00	4.20	270.90	21.43	170.57	113.71	10.58	4400.00	4400.00	3826.09

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
0.00	1	SLV	1	1	0.00	-3719.76	-4022.16	-4022.16	117.92	117.92	-3719.76	-5606.72	96.82	179.30	13.60	1.394
0.00	1	SLV	1	1	0.00	-3719.76	-4022.16	-4022.16	117.92	117.92	-3719.76	-5606.72	96.82	179.30	13.60	1.394
3.46	1(e)	SLV	1	1	346.00	-2941.26	3264.86	3264.86	36.35	58.83	-2941.26	5523.29	98.22	0.70	13.85	1.692

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	10	SLE R	1	1	0.00	-6365.48	-115.36	-54.06	0.00	10.18	9.04	122.70
0.00	8	SLE R	1	1	0.00	-5991.54	-110.65	-46.55	0.00	10.18	8.47	115.07
0.00	14	SLE Q	1	1	0.00	-5936.56	-114.83	-45.23	0.00	10.18	8.46	114.82
0.00	10	SLE R	1	1	0.00	-6365.48	-115.36	-54.06	0.00	10.18	9.04	122.70
0.00	8	SLE R	1	1	0.00	-5991.54	-110.65	-46.55	0.00	10.18	8.47	115.07
0.00	14	SLE Q	1	1	0.00	-5936.56	-114.83	-45.23	0.00	10.18	8.46	114.82
3.46	10	SLE R	1	1	346.00	-5586.98	200.27	54.65	0.00	10.18	9.81	127.76
3.46	8	SLE R	1	1	346.00	-5213.04	195.66	46.02	0.00	10.18	9.22	119.93
3.46	14	SLE Q	1	1	346.00	-5158.06	200.09	44.06	0.00	10.18	9.21	119.61

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.58	ø8/20	2	2	7	SLU	0.30	0.26	117.77	2.50	11077.60	14656.30	11077.60	0.30	0.26	41.85	2.50	11077.60	14656.30	11077.60	94.063
0.00	0.58	ø8/20	2	2	1	SLV	0.30	0.26	203.21	2.50	11077.60	14630.80	11077.60	0.30	0.26	2105.55	2.50	11077.60	14630.80	11077.60	5.261
0.00	0.58	ø8/20	2	2	3	SLV	0.30	0.26	366.36	2.50	11077.60	14960.10	11077.60	0.30	0.26	703.52	2.50	11077.60	14960.10	11077.60	15.746
0.58	2.88	ø8/20	2	2	7	SLU	0.30	0.26	117.77	2.50	11077.60	14634.00	11077.60	0.30	0.26	41.85	2.50	11077.60	14634.00	11077.60	94.063
0.58	2.88	ø8/20	2	2	1	SLV	0.30	0.26	203.21	2.50	11077.60	14613.70	11077.60	0.30	0.26	2105.55	2.50	11077.60	14613.70	11077.60	5.261
0.58	2.88	ø8/20	2	2	3	SLV	0.30	0.26	366.36	2.50	11077.60	14942.90	11077.60	0.30	0.26	703.52	2.50	11077.60	14942.90	11077.60	15.746
2.88	3.46	ø8/20	2	2	7	SLU	0.30	0.26	117.77	2.50	11077.60	14544.60	11077.60	0.30	0.26	41.85	2.50	11077.60	14544.60	11077.60	94.063
2.88	3.46	ø8/20	2	2	1	SLV	0.30	0.26	203.21	2.50	11077.60	14544.90	11077.60	0.30	0.26	2105.55	2.50	11077.60	14544.90	11077.60	5.261
2.88	3.46	ø8/20	2	2	3	SLV	0.30	0.26	366.36	2.50	11077.60	14874.20	11077.60	0.30	0.26	703.52	2.50	11077.60	14874.20	11077.60	15.746

Verifiche nodi trave-pilastro

Nodo	CC	TCC	N <daN>	Vc_Y <daN>	Vt_Y <daN>	Vc_Z <daN>	Vt_Z <daN>	Vn <daN>	σ_{nc} <daN/cmq>	$\sigma_{nc}R$ <daN/cmq>	σ_{nt} <daN/cmq>	$\sigma_{nt}R$ <daN/cmq>
110	3	SLV	0.00	0.00	-5260.92	0.00	-3496.39	6316.80	7.02	56.86	7.02	10.12

Pilastrata n. 917

Nodi: 120 220 320

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
31	R	20.00	40.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04
31	R	20.00	40.00	2.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
3.80	7(e)	SLU	1	31	0.00	-4740.48	-375.26	-375.26	-89.62	94.81	-4740.48	-4768.06	1122.16	140.62	7.14	12.655
3.80	7(e)	SLU	1	31	0.00	-4740.48	-375.26	-375.26	-89.62	94.81	-4740.48	-4768.06	1122.16	140.62	7.14	12.655
6.10	7	SLU	1	31	230.05	-4142.35	715.37	715.37	91.68	91.68	-4142.35	5020.79	657.86	22.50	9.49	7.021

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	α <grad>	ε_Y	Sic.
3.80	3	SND	1	31	0.00	-2312.25	-447.76	-447.76	-554.99	-554.99	-2312.25	-1284.51	-1564.61	263.67	8.33	2.839
3.80	3	SND	1	31	0.00	-2312.25	-447.76	-447.76	-554.99	-554.99	-2312.25	-1284.51	-1564.61	263.67	8.33	2.839
6.10	3	SND	1	31	230.05	-1852.16	704.49	704.49	491.80	491.80	-1852.16	1924.93	1301.12	75.94	6.71	2.704

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>
3.80	10	SLE R	1	31	0.00	-3628.05	-67.36	-284.34	1.13	5.65	11.25	139.30
3.80	14	SLE Q	1	31	0.00	-3367.23	-60.87	-254.63	1.13	5.65	10.17	126.33
3.80	10	SLE R	1	31	0.00	-3628.05	-67.36	-284.34	1.13	5.65	11.25	139.30
3.80	14	SLE Q	1	31	0.00	-3367.23	-60.87	-254.63	1.13	5.65	10.17	126.33
6.10	10	SLE R	1	31	230.05	-3167.96	68.90	542.11	3.39	3.39	19.35	220.48
6.10	14	SLE Q	1	31	230.05	-2907.13	62.95	485.50	3.39	3.39	17.33	198.07

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>
6.10	14	SLE Q	1	31	230.05	-2907.13	485.50	62.95	34.00	120.00	0.50	12.00	135.46	1.13	63.58	188.14	0.05	0.01
6.10	12	SLE F	1	31	230.05	-2944.22	492.93	63.62	34.00	120.00	0.50	12.00	135.85	1.13	63.94	191.57	0.06	0.01

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
3.80	4.25	ø8/10	2	2	7	SLU	0.40	0.16	78.81	2.50	13807.70	16513.20	13807.70	0.20	0.36	474.09	1.83	23018.30	23018.30	23018.30	48.553
3.80	4.25	ø8/10	2	2	1	SND	0.40	0.16	224.44	2.50	13807.70	16548.50	13807.70	0.20	0.36	548.54	1.83	23050.30	23050.30	23050.30	42.021
3.80	4.25	ø8/10	2	2	3	SND	0.40	0.16	455.01	2.50	13807.70	16474.70	13807.70	0.20	0.36	496.57	1.82	22983.40	22983.40	22983.40	30.346
4.25	5.65	ø8/10	2	2	7	SLU	0.40	0.16	78.81	2.50	13807.70	16499.00	13807.70	0.20	0.36	474.09	1.83	23005.50	23005.50	23005.50	48.526
4.25	5.65	ø8/10	2	2	1	SND	0.40	0.16	224.44	2.50	13807.70	16537.60	13807.70	0.20	0.36	548.54	1.83	23040.40	23040.40	23040.40	42.003
4.25	5.65	ø8/10	2	2	3	SND	0.40	0.16	455.01	2.50	13807.70	16463.80	13807.70	0.20	0.36	496.57	1.82	22973.50	22973.50	22973.50	30.346
5.65	6.10	ø8/10	2	2	7	SLU	0.40	0.16	78.81	2.50	13807.70	16455.00	13807.70	0.20	0.36	474.09	1.82	22965.50	22965.50	22965.50	48.441
5.65	6.10	ø8/10	2	2	1	SND	0.40	0.16	224.44	2.50	13807.70	16503.70	13807.70	0.20	0.36	548.54	1.83	23009.70	23009.70	23009.70	41.947
5.65	6.10	ø8/10	2	2	3	SND	0.40	0.16	455.01	2.50	13807.70	16429.90	13807.70	0.20	0.36	496.57	1.82	22942.70	22942.70	22942.70	30.346

Pilastrata n. 918

Nodi: 125 225 325

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
31	R	20.00	40.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04
31	R	20.00	40.00	2.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	α <grad>	ε_Y	Sic.
3.80	7(e)	SLU	1	31	0.00	-6236.92	-476.16	-476.16	-56.60	124.74	-6236.92	-4734.73	1313.59	135.00	6.45	9.959
3.80	7(e)	SLU	1	31	0.00	-6236.92	-476.16	-476.16	-56.60	124.74	-6236.92	-4734.73	1313.59	135.00	6.45	9.959
6.10	7(e)	SLU	1	31	230.00	-5638.92	749.71	749.71	48.12	112.78	-5638.92	5178.39	799.36	28.12	8.14	6.911
6.60	7(e)	SLU	2	31	0.00	-4504.56	1383.87	1383.87	7.95	90.09	-4504.56	5168.21	354.56	11.25	12.01	3.735
6.60	7(e)	SLU	2	31	0.00	-4504.56	1383.87	1383.87	7.95	90.09	-4504.56	5168.21	354.56	11.25	12.01	3.735
6.60	7(e)	SLU	2	31	0.16	-4504.15	1382.91	1382.91	6.88	-90.08	-4504.15	5168.15	-354.56	348.75	12.01	3.738

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	α <grad>	ε_Y	Sic.
3.80	3	SND	1	31	0.00	-1620.56	-528.95	-528.95	-473.17	-473.17	-1620.56	-1557.35	-1390.45	260.86	7.61	2.942
3.80	3	SND	1	31	0.00	-1620.56	-528.95	-528.95	-473.17	-473.17	-1620.56	-1557.35	-1390.45	260.86	7.61	2.942
6.10	3	SND	1	31	230.00	-1160.56	896.58	896.58	429.64	429.64	-1160.56	2404.87	1123.56	61.88	6.49	2.670
6.60	1	SND	2	31	0.00	-1364.83	1363.26	1363.26	153.05	153.05	-1364.83	3375.97	379.85	16.88	11.79	2.476
6.60	1	SND	2	31	0.00	-1364.83	1363.26	1363.26	153.05	153.05	-1364.83	3375.97	379.85	16.88	11.79	2.476
6.60	1	SND	2	31	0.16	-1364.51	1362.20	1362.20	149.61	149.61	-1364.51	3375.97	379.85	16.88	11.79	2.479

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>
3.80	10	SLE R	1	31	0.00	-4760.70	-42.16	-360.75	1.13	5.65	12.64	162.94
3.80	8	SLE R	1	31	0.00	-4437.02	-43.07	-335.76	1.13	5.65	11.91	153.06
3.80	14	SLE Q	1	31	0.00	-4396.75	-38.67	-324.23	1.13	5.65	11.49	148.40
3.80	10	SLE R	1	31	0.00	-4760.70	-42.16	-360.75	1.13	5.65	12.64	162.94
3.80	8	SLE R	1	31	0.00	-4437.02	-43.07	-335.76	1.13	5.65	11.91	153.06
3.80	14	SLE Q	1	31	0.00	-4396.75	-38.67	-324.23	1.13	5.65	11.49	148.40
6.10	10	SLE R	1	31	230.00	-4300.70	35.94	568.05	2.26	4.52	17.51	214.48
6.10	14	SLE Q	1	31	230.00	-3936.74	32.40	511.75	2.26	4.52	15.75	193.47
6.60	10	SLE R	2	31	0.00	-3428.03	6.08	1048.76	4.52	2.26	31.27	670.41
6.60	14	SLE Q	2	31	0.00	-3103.91	5.88	940.87	4.52	2.26	28.08	597.71
6.60	10	SLE R	2	31	0.00	-3428.03	6.08	1048.76	4.52	2.26	31.27	670.41
6.60	14	SLE Q	2	31	0.00	-3103.91	5.88	940.87	4.52	2.26	28.08	597.71
6.60	10	SLE R	2	31	0.16	-3427.71	5.26	1048.04	4.52	2.26	31.19	669.11
6.60	14	SLE Q	2	31	0.16	-3103.59	5.13	940.23	4.52	2.26	28.00	596.54

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>
6.10	14	SLE Q	1	31	230.00	-3936.74	511.75	32.40	34.00	120.00	0.50	12.00	130.93	1.13	59.31	102.13	0.03	0.01

6.10	12	SLE F	1	31	230.00	-3985.90	519.07	32.76	34.00	120.00	0.50	12.00	131.34	1.13	59.70	104.02	0.03	0.01
6.60	14	SLE Q	2	31	0.00	-3103.91	940.87	5.88	34.00	120.00	0.50	12.00	155.47	2.26	164.89	597.71	0.17	0.05
6.60	12	SLE F	2	31	0.00	-3147.21	955.01	5.91	34.00	120.00	0.50	12.00	155.51	2.26	164.96	607.12	0.18	0.05
6.60	14	SLE Q	2	31	0.00	-3103.91	940.87	5.88	34.00	120.00	0.50	12.00	155.47	2.26	164.89	597.71	0.17	0.05
6.60	12	SLE F	2	31	0.00	-3147.21	955.01	5.91	34.00	120.00	0.50	12.00	155.51	2.26	164.96	607.12	0.18	0.05
6.60	14	SLE Q	2	31	0.16	-3103.59	940.23	5.13	34.00	120.00	0.50	12.00	155.67	2.26	165.25	596.54	0.17	0.05
6.60	12	SLE F	2	31	0.16	-3146.89	954.35	5.16	34.00	120.00	0.50	12.00	155.71	2.26	165.32	605.94	0.18	0.05

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	bw_y <m>	d_y <m>	$Vsdu_y$ <daN>	$ctg\theta_y$	$VRsd_y$ <daN>	$VRcd_y$ <daN>	Vrd_y <daN>	bw_z <m>	d_z <m>	$Vsdu_z$ <daN>	$ctg\theta_z$	$VRsd_z$ <daN>	$VRcd_z$ <daN>	Vrd_z <daN>	Sic.
3.80	4.25	ø8/10	2	2	7	SLU	0.40	0.16	45.53	2.50	13807.70	16694.30	13807.70	0.20	0.36	532.99	1.84	23181.80	23181.80	23181.80	43.494
3.80	4.25	ø8/10	2	2	5	SLU	0.40	0.16	45.88	2.50	13807.70	16635.60	13807.70	0.20	0.36	491.89	1.84	23128.90	23128.90	23128.90	47.021
3.80	4.25	ø8/10	2	2	3	SND	0.40	0.16	392.52	2.50	13807.70	16807.60	13807.70	0.20	0.36	612.35	1.85	23283.50	23283.50	23283.50	35.177
4.25	5.65	ø8/10	2	2	7	SLU	0.40	0.16	45.53	2.50	13807.70	16680.20	13807.70	0.20	0.36	532.99	1.84	23169.10	23169.10	23169.10	43.470
4.25	5.65	ø8/10	2	2	5	SLU	0.40	0.16	45.88	2.50	13807.70	16621.40	13807.70	0.20	0.36	491.89	1.83	23116.10	23116.10	23116.10	46.995
4.25	5.65	ø8/10	2	2	3	SND	0.40	0.16	392.52	2.50	13807.70	16796.70	13807.70	0.20	0.36	612.35	1.85	23273.70	23273.70	23273.70	35.177
5.65	6.10	ø8/10	2	2	7	SLU	0.40	0.16	45.53	2.50	13807.70	16636.10	13807.70	0.20	0.36	532.99	1.84	23129.40	23129.40	23129.40	43.396
5.65	6.10	ø8/10	2	2	5	SLU	0.40	0.16	45.88	2.50	13807.70	16577.30	13807.70	0.20	0.36	491.89	1.83	23076.30	23076.30	23076.30	46.914
5.65	6.10	ø8/10	2	2	3	SND	0.40	0.16	392.52	2.50	13807.70	16762.80	13807.70	0.20	0.36	612.35	1.84	23243.40	23243.40	23243.40	35.177

Verifiche aste in acciaio

Simbologia

Φ_{LT} = Coefficiente Φ per stabilità laterale membrature inflesse
Φ_y = Coefficiente Φ per inflessione intorno all'asse y(c)
Φ_z = Coefficiente Φ per inflessione intorno all'asse z(e)
α = Esponente sfruttamento per flessione retta intorno all'asse y
α_{imp} = Coefficiente di imperfezione
αmy, αmz, αLT = Coefficienti correttivi per il momento flettente
β = Esponente sfruttamento per flessione retta intorno all'asse z
β_{LT} = Coefficiente per calcolo Φ_{LT}
χ_{LT} = Coefficiente di riduzione per stabilità laterale membrature inflesse
χ_y = Coefficiente χ di riduzione per instabilità intorno all'asse y(c)
χ_z = Coefficiente χ di riduzione per instabilità intorno all'asse z(e)
δ <cm> = Spostamento relativo asta
λ^*_y = Snellezza adimensionale per inflessione intorno all'asse y(c)
λ^*_z = Snellezza adimensionale per inflessione intorno all'asse z(e)
λ_{LT} = Coefficiente di imperfezione per stabilità laterale membrature inflesse
$\lambda_{LT,0}$ = Coefficiente di imperfezione di confronto per stabilità laterale membrature inflesse
λ_y = Snellezza per inflessione intorno all'asse y(c)
λ_z = Snellezza per inflessione intorno all'asse z(e)
$\sigma_{ID,max}$ <daN/cmq> = Tensione ideale massima
σ_M <daN/cmq> = Tensione normale per momento flettente
σ_N <daN/cmq> = Tensione normale per sforzo normale
τ <daN/cmq> = Tensione tangenziale per taglio e/o torsione
τ,Ed <daN/cmq> = Tensione tangenziale
τ,Rd <daN/cmq> = Resistenza tangenziale in termini tensionali
ψ = Coeff. di correzione momento critico per stabilità laterale membrature inflesse
Aeff <cmq> = Area effettiva per trazione
Anet <cmq> = Area netta per compressione
Area <cmq> = Area
Atag,y <cmq> = Area resistente a taglio in dir. Y
Atag,z <cmq> = Area resistente a taglio in dir. Z
CC = Numero della combinazione delle condizioni di carico elementari
Cod. = Codice
Curva = Curva di instabilità adottata
D <cm> = Distanza
Fyk <daN/cmq> = Tensione caratteristica di snervamento dell'acciaio
Fyt <daN/cmq> = Tensione caratteristica di rottura
Iy <cm> = Raggio giratorio d'inerzia rispetto all'asse Y
Iz <cm> = Raggio giratorio d'inerzia rispetto all'asse Z
Jω <cm6> = Costante di ingobbamento
Jy <cm4> = Momento d'inerzia rispetto all'asse Y
Jz <cm4> = Momento d'inerzia rispetto all'asse Z
Kyy, Kyz, Kzy, Kzz = Coefficienti di interazione
L <m> = Lunghezza dell'asta
L_{cr} <m> = Lunghezza di libera inflessione laterale fra ritegni torsionali
M,cr <daNm> = Momento critico per instabilità flesso torsionale
MNy,c,Rd <daNm> = Resistenza di calcolo a pressoflessione intorno all'asse Y
MNz,c,Rd <daNm> = Resistenza di calcolo a pressoflessione intorno all'asse Z
Mx <daNm> = Momento torcente intorno all'asse X
My <daNm> = Momento flettente intorno all'asse Y
My,Ed <daNm> = Momento flettente di calcolo intorno all'asse Y
My,V,c,Rd <daNm> = Resistenza di calcolo a flessione ridotta per taglio intorno all'asse Y
My,c,Rd <daNm> = Resistenza di calcolo a flessione intorno all'asse Y
Mz <daNm> = Momento flettente intorno all'asse Z
Mz,Ed <daNm> = Momento flettente di calcolo intorno all'asse Z
N <daN> = Sforzo normale
N,Ed <daN> = Forza assiale di calcolo
Nc,Rd <daN> = Resistenza a compressione
Ncr,y <daN> = Sforzo normale critico euleriano per inflessione intorno all'asse y(c)
Ncr,z <daN> = Sforzo normale critico euleriano per inflessione intorno all'asse z(e)
Sez. = Numero della sezione
Tipo = Tipologia
  2Cdx = Doppia C lato costola
  L = Sezione a L
  R = Rettangolare
  T = Sezione a T
  Cs = C stondata
  Is = I stondata
Tp = Tipo di acciaio
Ty <daN> = Taglio in dir. Y

Tz	<daN>	=Taglio in dir. Z
V,Ed	<daN>	=Forza di taglio di calcolo
Vc,Rd	<daN>	=Resistenza a taglio
Vc,Rd,Red	<daN>	=Resistenza a taglio ridotta
Wy,plas	<cmc>	=Modulo di resistenza plastico intorno all'asse Y
Wymin	<cmc>	=Modulo di resistenza minimo rispetto all'asse Y
Wz,plas	<cmc>	=Modulo di resistenza plastico intorno all'asse Z
Wzmin	<cmc>	=Modulo di resistenza minimo rispetto all'asse Z
Xl	<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>	Anet <cmq>	Aeff <cmq>	Jy <cm4>	Jz <cm4>	Iy <cm>	Iz <cm>	Wymin <cmc>	Wzmin <cmc>	Tp	Fyk <daN/cmq>	Fyt <daN/cmq>
36	HEB160	Is	--	54.25	54.25	54.25	2492.05	889.24	6.78	4.05	311.51	111.16	S235 UNI EN 10025-2	2350.00	3600.00
37	IPE240	Is	--	39.12	39.12	39.12	3891.76	283.63	9.97	2.69	324.31	47.27	S275 UNI EN 10025-2	2750.00	4300.00
38	2UPN160	2Cdx	1.00	48.03	48.03	48.03	1849.50	432.99	6.21	3.00	231.19	61.86	S235 UNI EN 10025-2	2350.00	3600.00
39	UPN160	Cs	--	24.01	24.01	24.01	924.75	85.05	6.21	1.88	115.59	18.25	S235 UNI EN 10025-2	2350.00	3600.00

Caratteristiche profilati utilizzati

Sez.	Cod.	Wy,plas <cmc>	Wz,plas <cmc>	Atag,y <cmq>	Atag,z <cmq>	Jω <cm6>
36	HEB160	355.07	170.13	45.93	17.59	47943.20
37	IPE240	368.53	74.08	27.31	19.14	37391.20
38	2UPN160	275.41	0.00	30.33	24.51	
39	UPN160	137.70	38.70	15.16	12.25	

Asta n. 909 (-1117 -1110) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio e torsione Dir. Y [4.2.24] - CC 7 SLU Xl=0.92 - Classe 1
  Sollecitazioni: T_y=-108.73 M_x=-8.85
  V,Ed=-108.73 Vc,Rd,Red=40456.20 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione Dir. Z [4.2.24] - CC 7 SLU Xl=0.92 - Classe 1
  Sollecitazioni: T_z=-2494.78 M_x=-8.85
  V,Ed=-2494.78 Vc,Rd,Red=28358.10 V,Ed/Vc,Rd,Red=0.09

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=0.00 - Classe 1
  Sollecitazioni: N=6.18 T_z=-2461.93 M_y=-2252.37 T_y=-108.73 M_z=30.43 M_x=-8.85
  N,Ed=6.18 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
  Pressoflessione retta YY [4.2.33]:
  My,Ed=-2252.37 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.23
  Pressoflessione retta ZZ [4.2.34]:
  Mz,Ed=30.43 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.02
  α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.23

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
  Sollecitazioni: N,Ed=-5.98 My,Ed=-2252.37 Mz,Ed=-69.93 L=1.00
  αmy, αmz, αLT=0.95, 0.95, 0.95
  L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.77 M,cr=126550.00 λ_{LT}=0.28
  $\lambda_{LT,0}$=0.40 Φ_{LT}=0.51 β_{LT}=0.75 f=0.99 χ_{LT}=1.00
  λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
  λ_Z=37.06 Ncr,z=590188.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
  Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
  Verifica YY: 0.00+0.22+0.02=0.24
  Verifica ZZ: 0.00+0.13+0.03=0.17

Asta n. 909 (-1116 -1117) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=1.00 - Classe 1
  Sollecitazioni: T_y=10.31
  V,Ed=10.31 Vc,Rd=41300.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=1.00 - Classe 1
  Sollecitazioni: T_z=-882.53
  V,Ed=-882.53 Vc,Rd=28950.20 V,Ed/Vc,Rd=0.03

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=0.00 - Classe 1
  Sollecitazioni: N=6.58 T_z=-847.01 M_y=-3115.93 T_y=10.31 M_z=-2.10
  N,Ed=6.58 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
  Pressoflessione retta YY [4.2.33]:
  My,Ed=-3115.93 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.32
  Pressoflessione retta ZZ [4.2.34]:
  Mz,Ed=-2.10 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.00
  α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.32

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
  Sollecitazioni: N,Ed=-6.57 My,Ed=-3115.93 Mz,Ed=8.19 L=1.00
  αmy, αmz, αLT=0.95, 0.95, 0.95
  L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.15 M,cr=82218.90 λ_{LT}=0.35
  $\lambda_{LT,0}$=0.40 Φ_{LT}=0.54 β_{LT}=0.75 f=0.98 χ_{LT}=1.00

λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590189.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.31+0.00=0.31
Verifica ZZ: 0.00+0.18+0.00=0.19

Asta n. 909 (-1115 -1116) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_y=-3.81
V,Ed=-3.81 Vc,Rd=41300.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_z=770.08
V,Ed=770.08 Vc,Rd=28950.20 V,Ed/Vc,Rd=0.03

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: N=-6.57 T_z=734.57 M_y=-3115.93 T_y=-3.81 M_z=-2.51
N,Ed=-6.57 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
Pressoflessione retta YY [4.2.33]:
My,Ed=-3115.93 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.32
Pressoflessione retta ZZ [4.2.34]:
Mz,Ed=-2.51 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.00
α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.32

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.57 My,Ed=-3115.93 Mz,Ed=-2.51 L=1.00
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.13 M,cr=80656.90 λ_{LT}=0.35
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.54 β_{LT}=0.75 f=0.98 χ_{LT}=1.00
λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590189.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.31+0.00=0.31
Verifica ZZ: 0.00+0.18+0.00=0.19

Asta n. 909 (-749 -1115) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_y=7.67
V,Ed=7.67 Vc,Rd=41300.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_z=2387.00
V,Ed=2387.00 Vc,Rd=28950.20 V,Ed/Vc,Rd=0.08

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: N=-6.57 T_z=2351.48 M_y=-2364.58 T_y=7.67 M_z=2.45
N,Ed=-6.57 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
Pressoflessione retta YY [4.2.33]:
My,Ed=-2364.58 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.24
Pressoflessione retta ZZ [4.2.34]:
Mz,Ed=2.45 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.00
α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.24

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.57 My,Ed=-2364.58 Mz,Ed=-5.20 L=1.00
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.75 M,cr=125371.00 λ_{LT}=0.28
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.51 β_{LT}=0.75 f=0.99 χ_{LT}=1.00
λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590189.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.23+0.00=0.23
Verifica ZZ: 0.00+0.14+0.00=0.14

Asta n. 910 (-1114 -1111) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio e torsione Dir. Y [4.2.24] - CC 7 SLU Xl=0.92 - Classe 1
Sollecitazioni: T_y=24.44 M_x=1.45
V,Ed=24.44 Vc,Rd,Red=41164.10 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione Dir. Z [4.2.24] - CC 7 SLU Xl=0.92 - Classe 1
Sollecitazioni: T_z=-4396.11 M_x=1.45
V,Ed=-4396.11 Vc,Rd,Red=28854.30 V,Ed/Vc,Rd,Red=0.15

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: N=6.17 T_z=-4363.26 M_y=-3972.13 T_y=24.44 M_z=-6.39 M_x=1.45
N,Ed=6.17 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
Pressoflessione retta YY [4.2.33]:
My,Ed=-3972.13 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.41
Pressoflessione retta ZZ [4.2.34]:

Mz,Ed=-6.39 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.00
α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.41

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-5.99 My,Ed=-3972.13 Mz,Ed=16.17 L=1.00
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.77 M,cr=126709.00 λ_{LT}=0.28
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.51 β_{LT}=0.75 f=0.99 χ_{LT}=1.00
λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590188.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.39+0.00=0.40
Verifica ZZ: 0.00+0.23+0.01=0.24

Asta n. 910 (-1113 -1114) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: T_y=-3.53
V,Ed=-3.53 Vc,Rd=41300.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: T_z=-1542.72
V,Ed=-1542.72 Vc,Rd=28950.20 V,Ed/Vc,Rd=0.05

- Verifica a presso o tenso-flessione retta YY (4.2.4.1.2.7) - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: N=6.56 T_z=-1507.20 M_y=-5492.77 T_y=-3.53
My,Ed=-5492.77 My,V,c,Rd=9652.05
N,Ed=6.56 Nc,Rd=102450.00 YY n=N,Ed/Nc,Rd=0.00 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.57

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.58 My,Ed=-5492.77 Mz,Ed=-2.69 L=1.00
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.15 M,cr=82223.30 λ_{LT}=0.35
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.54 β_{LT}=0.75 f=0.98 χ_{LT}=1.00
λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590189.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.54+0.00=0.54
Verifica ZZ: 0.00+0.32+0.00=0.33

Asta n. 910 (-1112 -1113) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_y=1.10
V,Ed=1.10 Vc,Rd=41300.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_z=1344.22
V,Ed=1344.22 Vc,Rd=28950.20 V,Ed/Vc,Rd=0.05

- Verifica a presso o tenso-flessione retta YY (4.2.4.1.2.7) - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: N=-6.57 T_z=1308.70 M_y=-5492.76 T_y=1.10
My,Ed=-5492.76 My,V,c,Rd=9652.05
N,Ed=-6.57 Nc,Rd=-102450.00 YY n=N,Ed/Nc,Rd=0.00 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.57

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.57 My,Ed=-5492.76 Mz,Ed=0.67 L=1.00
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.13 M,cr=80659.00 λ_{LT}=0.35
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.54 β_{LT}=0.75 f=0.98 χ_{LT}=1.00
λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590189.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.54+0.00=0.54
Verifica ZZ: 0.00+0.32+0.00=0.32

Asta n. 910 (-750 -1112) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_y=-2.29
V,Ed=-2.29 Vc,Rd=41300.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_z=4196.22
V,Ed=4196.22 Vc,Rd=28950.20 V,Ed/Vc,Rd=0.14

- Verifica a presso o tenso-flessione retta YY (4.2.4.1.2.7) - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: N=-6.57 T_z=4160.70 M_y=-4170.23 T_y=-2.29
My,Ed=-4170.23 My,V,c,Rd=9652.05
N,Ed=-6.57 Nc,Rd=-102450.00 YY n=N,Ed/Nc,Rd=0.00 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.43

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.57 My,Ed=-4170.23 Mz,Ed=1.61 L=1.00

αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.75 M,cr=125371.00 λ_{LT}=0.28
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.51 β_{LT}=0.75 f=0.99 χ_{LT}=1.00
λ_y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_z=37.06 Ncr,z=590189.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.41+0.00=0.41
Verifica ZZ: 0.00+0.25+0.00=0.25

Asta n. 912 (-749 -750) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=6.00 - Classe 1
Sollecitazioni: T_z=-916.30
V,Ed=-916.30 Vc,Rd=31670.70 V,Ed/Vc,Rd=0.03

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=3.00 - Classe 1
Sollecitazioni: M_y=-1374.45
My,Ed=-1374.45 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.22

- Verifica freccia massima per soli carichi accidentali - CC 10
$f_{Z,L}$=0.15 (L/3987)

- Verifica freccia massima carichi totali - CC 10
$f_{Z,L}$=1.00 (L/601)

Asta n. 912 (-750 -1099) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=4.70 - Classe 1
Sollecitazioni: T_y=-1.89
V,Ed=-1.89 Vc,Rd=39191.30 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=4.70 - Classe 1
Sollecitazioni: T_z=-717.77
V,Ed=-717.77 Vc,Rd=31670.70 V,Ed/Vc,Rd=0.02

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=2.35 - Classe 1
Sollecitazioni: M_y=-843.38 T_y=-1.89
My,Ed=-843.38 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.14

- Verifica freccia massima per soli carichi accidentali - CC 10
$f_{Z,G}$=0.06 (L/8293)

- Verifica freccia massima carichi totali - CC 10
$f_{Z,G}$=0.38 (L/1251)

Asta n. 913 (-1111 -1110) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=5.92 - Classe 1
Sollecitazioni: T_y=49.49
V,Ed=49.49 Vc,Rd=39191.30 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=5.92 - Classe 1
Sollecitazioni: T_z=-1266.80
V,Ed=-1266.80 Vc,Rd=31670.70 V,Ed/Vc,Rd=0.04

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=3.00 - Classe 1
Sollecitazioni: M_y=-1849.52 T_y=49.49 M_z=66.60
My,Ed=-1849.52 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.30

- Verifica freccia massima per soli carichi accidentali - CC 10
$f_{Z,L}$=0.21 (L/2797)

- Verifica freccia massima carichi totali - CC 10
$f_{Z,L}$=1.31 (L/446)

Asta n. 913 (-1109 -1111) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio e torsione Dir. Y [4.2.26] - CC 7 SLU Xl=0.08
Sollecitazioni: T_z=984.80 T_y=-66.28 M_z=174.18 M_x=1.15
V,Ed=-66.28
τ,Ed=55.49 τ,Rd=1292.20 τ,Ed/τ,Rd=0.04

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=2.35 - Classe 1
Sollecitazioni: M_y=-1117.75 T_y=-66.28 M_z=23.73 M_x=1.15
My,Ed=-1117.75 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.18

- Verifica freccia massima per soli carichi accidentali - CC 10
$f_{Z,G}$=0.08 (L/5988)

- Verifica freccia massima carichi totali - CC 10
$f_{Z,L}$=0.47 (L/955)

Asta n. 914 (-1117 -1114) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=6.00 - Classe 1
  Sollecitazioni: T_y=3.05
  V,Ed=3.05 Vc,Rd=39191.30 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=6.00 - Classe 1
  Sollecitazioni: T_z=-1685.19
  V,Ed=-1685.19 Vc,Rd=31670.70 V,Ed/Vc,Rd=0.05

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=3.00 - Classe 1
  Sollecitazioni: M_y=-2527.78 T_y=3.05 M_z=-14.56
  My,Ed=-2527.78 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.41

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,L}$=0.30 (L/1993)

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=1.83 (L/327)

Asta n. 914 (-1114 -1120) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=4.70 - Classe 1
  Sollecitazioni: T_y=-2.43
  V,Ed=-2.43 Vc,Rd=39191.30 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=4.70 - Classe 1
  Sollecitazioni: T_z=-1320.07
  V,Ed=-1320.07 Vc,Rd=31670.70 V,Ed/Vc,Rd=0.04

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=2.35 - Classe 1
  Sollecitazioni: M_y=-1551.07 T_y=-2.43 M_z=-7.16
  My,Ed=-1551.07 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.25

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,L}$=0.11 (L/4147)

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=0.69 (L/681)

Asta n. 915 (-1116 -1113) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=6.00 - Classe 1
  Sollecitazioni: T_y=-3.04
  V,Ed=-3.04 Vc,Rd=39191.30 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=6.00 - Classe 1
  Sollecitazioni: T_z=-1685.19
  V,Ed=-1685.19 Vc,Rd=31670.70 V,Ed/Vc,Rd=0.05

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=3.00 - Classe 1
  Sollecitazioni: M_y=-2527.78 T_y=-3.04 M_z=-9.56
  My,Ed=-2527.78 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.41

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,L}$=0.30 (L/1993)

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=1.83 (L/327)

Asta n. 915 (-1113 -1119) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=4.70 - Classe 1
  Sollecitazioni: T_y=4.42
  V,Ed=4.42 Vc,Rd=39191.30 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=4.70 - Classe 1
  Sollecitazioni: T_z=-1320.07
  V,Ed=-1320.07 Vc,Rd=31670.70 V,Ed/Vc,Rd=0.04

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=2.35 - Classe 1
  Sollecitazioni: M_y=-1551.07 T_y=4.42 M_z=-8.47
  My,Ed=-1551.07 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.25

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,L}$=0.11 (L/4148)

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=0.69 (L/681)

Asta n. 916 (-1115 -1112) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=6.00 - Classe 1
  Sollecitazioni: T_y=-2.48
  V,Ed=-2.48 Vc,Rd=39191.30 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=6.00 - Classe 1
  Sollecitazioni: T_z=-1685.19
  V,Ed=-1685.19 Vc,Rd=31670.70 V,Ed/Vc,Rd=0.05

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=3.00 - Classe 1
  Sollecitazioni: M_y=-2527.78 T_y=-2.48 M_z=-6.20
  My,Ed=-2527.78 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.41

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,L}$=0.30 (L/1993)

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=1.83 (L/327)

Asta n. 916 (-1112 -1118) - Sez. 38 (2UPN160) - Crit. 1

L'asta accoppiata è stata considerata come due aste separate
- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=4.70 - Classe 1
  Sollecitazioni: T_y=3.22
  V,Ed=3.22 Vc,Rd=39191.30 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=4.70 - Classe 1
  Sollecitazioni: T_z=-1320.07
  V,Ed=-1320.07 Vc,Rd=31670.70 V,Ed/Vc,Rd=0.04

- Verifica a flessione YY [4.2.12] - CC 7 SLU Xl=2.35 - Classe 1
  Sollecitazioni: M_y=-1551.07 T_y=3.22 M_z=-6.34
  My,Ed=-1551.07 My,c,Rd=6163.90 My,Ed/My,c,Rd=0.25

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,L}$=0.11 (L/4147)

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=0.69 (L/681)

Asta n. 917 (-1125 -1124) - Sez. 39 (UPN160) - Crit. 1

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
  Sollecitazioni: T_y=6.52
  V,Ed=6.52 Vc,Rd=19595.60 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
  Sollecitazioni: T_z=458.91
  V,Ed=458.91 Vc,Rd=15835.30 V,Ed/Vc,Rd=0.03

- Verifica in termini tensionali [4.2.4] - CC 7 SLU Xl=3.27 - Classe 3
  Sollecitazioni: T_z=-41.72 M_y=-682.67 T_y=6.52 M_z=10.12
  Tensioni: σ_N=0.00 $\sigma_{m,d}$=646.04 τ=0.00 σ_{max}=646.04 (sfrut=0.29)
  Tensioni: σ_N=0.00 $\sigma_{m,d}$=-12.97 τ=4.21 τ_{max}=4.21 (sfrut=0.00)
  Tensioni: σ_N=0.00 $\sigma_{m,d}$=646.04 τ=0.00 $\sigma_{ID,max}$=646.04 (sfrut=0.29)

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,L}$=0.15 (L/3980)

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=1.00 (L/600)

Asta n. 917 (-1126 -1125) - Sez. 39 (UPN160) - Crit. 1

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
  Sollecitazioni: T_y=-7.94
  V,Ed=-7.94 Vc,Rd=19595.60 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
  Sollecitazioni: T_z=359.48
  V,Ed=359.48 Vc,Rd=15835.30 V,Ed/Vc,Rd=0.02

- Verifica in termini tensionali [4.2.4] - CC 7 SLU Xl=2.14 - Classe 3
  Sollecitazioni: T_z=32.68 M_y=-418.90 T_y=-7.94 M_z=3.71
  Tensioni: σ_N=0.00 $\sigma_{m,d}$=382.71 τ=0.00 σ_{max}=382.71 (sfrut=0.17)
  Tensioni: σ_N=0.00 $\sigma_{m,d}$=-4.75 τ=3.30 τ_{max}=3.30 (sfrut=0.00)
  Tensioni: σ_N=0.00 $\sigma_{m,d}$=382.71 τ=0.00 $\sigma_{ID,max}$=382.71 (sfrut=0.17)

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,G}$=0.06 (L/8279)

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=0.38 (L/1249)

Asta n. 9141 (334 -1110) - Sez. 36 (HEB160) - Crit. 1

- Verifica a taglio Dir. Y [4.2.16] - CC 3 SLV Xl=0.00 - Classe 1
  Sollecitazioni: T_y=-68.82
  V,Ed=-68.82 Vc,Rd=59354.10 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 3 SLV Xl=0.00 - Classe 1
  Sollecitazioni: T_z=-284.48
  V,Ed=-284.48 Vc,Rd=22733.10 V,Ed/Vc,Rd=0.01

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 3 SLV Xl=0.00 - Classe 1
  Sollecitazioni: N=-2364.28 T_z=-284.48 M_y=-645.03 T_y=-68.82 M_z=156.05
  N,Ed=-2364.28 Nc,Rd=121422.00 n=N,Ed/Nc,Rd=0.02
  Pressoflessione retta YY [4.2.33]:
  My,Ed=-645.03 My,V,c,Rd=7946.90 MNy,c,Rd=7946.90 My,Ed/MNy,c,Rd=0.08
  Pressoflessione retta ZZ [4.2.34]:
  Mz,Ed=156.05 Mz,V,c,Rd=3807.78 MNz,c,Rd=3807.78 Mz,Ed/MNz,c,Rd=0.04
  α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.08

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 3 SLV - Classe 1
  Sollecitazioni: N,Ed=-3451.76 My,Ed=-645.03 Mz,Ed=156.05 L=2.35
  αmy, αmz, αLT=0.95, 0.95, 0.95
  L_{cr}=2.35 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.75 M,cr=64410.70 λ_{LT}=0.36
  $\lambda_{LT,0}$=0.40 Φ_{LT}=0.54 β_{LT}=0.75 f=0.98 χ_{LT}=1.00
  λ_Y=34.64 Ncr,y=937343.00 λ^*_y=0.37 Curva b: Φ_y=0.60 χ_y=0.94
  λ_Z=57.98 Ncr,z=334472.00 λ^*_z=0.62 Curva c: Φ_z=0.79 χ_z=0.78
  Kyy, Kyz, Kzy, Kzz=0.95, 0.58, 0.57, 0.97
  Verifica YY: 0.03+0.08+0.02=0.13
  Verifica ZZ: 0.03+0.05+0.04=0.11

- Verifica Spostamento relativo massimo per singola asta - CC 10
  δ=0.08 (L/2988)

Asta n. 9142 (335 -1111) - Sez. 36 (HEB160) - Crit. 1

- Verifica a taglio Dir. Y [4.2.16] - CC 3 SLV Xl=0.00 - Classe 1
  Sollecitazioni: T_y=-39.49
  V,Ed=-39.49 Vc,Rd=59354.10 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 3 SLV Xl=0.00 - Classe 1
  Sollecitazioni: T_z=-146.30
  V,Ed=-146.30 Vc,Rd=22733.10 V,Ed/Vc,Rd=0.01

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=0.00 - Classe 1
  Sollecitazioni: N=-8053.06 T_z=-83.84 M_y=-190.10 T_y=5.57 M_z=-12.62
  N,Ed=-8053.06 Nc,Rd=121422.00 n=N,Ed/Nc,Rd=0.07
  Pressoflessione retta YY [4.2.33]:
  My,Ed=-190.10 My,V,c,Rd=7946.90 MNy,c,Rd=7946.90 My,Ed/MNy,c,Rd=0.02
  Pressoflessione retta ZZ [4.2.34]:
  Mz,Ed=-12.62 Mz,V,c,Rd=3807.78 MNz,c,Rd=3807.78 Mz,Ed/MNz,c,Rd=0.00
  α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.07

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 3 SLV - Classe 1
  Sollecitazioni: N,Ed=-5623.28 My,Ed=-331.72 Mz,Ed=-105.50 L=2.35
  αmy, αmz, αLT=0.95, 0.95, 0.95
  L_{cr}=2.35 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.75 M,cr=64410.70 λ_{LT}=0.36
  $\lambda_{LT,0}$=0.40 Φ_{LT}=0.54 β_{LT}=0.75 f=0.98 χ_{LT}=1.00
  λ_Y=34.64 Ncr,y=937343.00 λ^*_y=0.37 Curva b: Φ_y=0.60 χ_y=0.94
  λ_Z=57.98 Ncr,z=334472.00 λ^*_z=0.62 Curva c: Φ_z=0.79 χ_z=0.78
  Kyy, Kyz, Kzy, Kzz=0.96, 0.59, 0.57, 0.99
  Verifica YY: 0.05+0.04+0.02=0.10
  Verifica ZZ: 0.05+0.02+0.03=0.10

- Verifica Spostamento relativo massimo per singola asta - CC 10
  δ=0.05 (L/4576)

Asta n. 9143 (336 -1109) - Sez. 36 (HEB160) - Crit. 1

- Verifica a taglio Dir. Y [4.2.16] - CC 3 SLV Xl=0.00 - Classe 1
  Sollecitazioni: T_y=-29.71
  V,Ed=-29.71 Vc,Rd=59354.10 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 3 SLV Xl=0.00 - Classe 1
  Sollecitazioni: T_z=-82.93
  V,Ed=-82.93 Vc,Rd=22733.10 V,Ed/Vc,Rd=0.00

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 3 SLV Xl=0.00 - Classe 1
  Sollecitazioni: N=-2089.26 T_z=-82.93 M_y=-188.03 T_y=54.63 M_z=-123.88
  N,Ed=-2089.26 Nc,Rd=121422.00 n=N,Ed/Nc,Rd=0.02
  Pressoflessione retta YY [4.2.33]:
  My,Ed=-188.03 My,V,c,Rd=7946.90 MNy,c,Rd=7946.90 My,Ed/MNy,c,Rd=0.02
  Pressoflessione retta ZZ [4.2.34]:

Mz,Ed=-123.88 Mz,V,c,Rd=3807.78 MNz,c,Rd=3807.78 Mz,Ed/MNz,c,Rd=0.03
α=2.00 β=1.00 (My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1=0.03

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 3 SLV - Classe 1
Sollecitazioni: N,Ed=-2517.92 My,Ed=-188.03 Mz,Ed=-123.88 L=2.35
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=2.35 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.75 M,cr=64410.70 λ_{LT}=0.36
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.54 β_{LT}=0.75 f=0.98 χ_{LT}=1.00
λ_Y=34.64 Ncr,y=937343.00 λ^*_y=0.37 Curva b: Φ_y=0.60 χ_y=0.94
λ_Z=57.98 Ncr,z=334472.00 λ^*_z=0.62 Curva c: Φ_z=0.79 χ_z=0.78
Kyy, Kyz, Kzy, Kzz=0.95, 0.58, 0.57, 0.97
Verifica YY: 0.02+0.02+0.02=0.06
Verifica ZZ: 0.02+0.01+0.03=0.07

- Verifica Spostamento relativo massimo per singola asta - CC 10
δ=0.04 (L/5665)

Asta n. 9152 (-1120 -1109) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio e torsione Dir. Y [4.2.24] - CC 7 SLU Xl=0.92 - Classe 1
Sollecitazioni: T_y=86.23 M_x=4.26
V,Ed=86.23 Vc,Rd,Red=40896.60 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione Dir. Z [4.2.24] - CC 7 SLU Xl=0.92 - Classe 1
Sollecitazioni: T_z=-1969.08 M_x=4.26
V,Ed=-1969.08 Vc,Rd,Red=28666.90 V,Ed/Vc,Rd,Red=0.07

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: N=6.18 T_z=-1936.23 M_y=-1777.62 T_y=86.23 M_z=-22.19 M_x=4.26
N,Ed=6.18 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
Pressoflessione retta YY [4.2.33]:
My,Ed=-1777.62 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.18
Pressoflessione retta ZZ [4.2.34]:
Mz,Ed=-22.19 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.01
α=2.00 β=1.00 (My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1=0.18

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-5.97 My,Ed=-1777.62 Mz,Ed=57.41 L=1.00
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.76 M,cr=126420.00 λ_{LT}=0.28
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.51 β_{LT}=0.75 f=0.99 χ_{LT}=1.00
λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590188.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.17+0.02=0.19
Verifica ZZ: 0.00+0.10+0.03=0.13

Asta n. 9152 (-1119 -1120) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: T_y=-13.32
V,Ed=-13.32 Vc,Rd=41300.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: T_z=-699.07
V,Ed=-699.07 Vc,Rd=28950.20 V,Ed/Vc,Rd=0.02

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: N=6.58 T_z=-663.55 M_y=-2458.39 T_y=-13.32 M_z=3.18
N,Ed=6.58 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
Pressoflessione retta YY [4.2.33]:
My,Ed=-2458.39 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.25
Pressoflessione retta ZZ [4.2.34]:
Mz,Ed=3.18 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.00
α=2.00 β=1.00 (My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1=0.25

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.56 My,Ed=-2458.39 Mz,Ed=-10.12 L=1.00
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.15 M,cr=82201.50 λ_{LT}=0.35
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.54 β_{LT}=0.75 f=0.98 χ_{LT}=1.00
λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590189.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.24+0.00=0.24
Verifica ZZ: 0.00+0.15+0.00=0.15

Asta n. 9152 (-1118 -1119) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1

Sollecitazioni: T_z=611.59
V,Ed=611.59 Vc,Rd=28950.20 V,Ed/Vc,Rd=0.02

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: N=-6.57 T_z=576.07 M_y=-2458.38 M_z=1.37
N,Ed=-6.57 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
Pressoflessione retta YY [4.2.33]:
My,Ed=-2458.38 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.25
Pressoflessione retta ZZ [4.2.34]:
Mz,Ed=1.37 Mz,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.00
α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.25

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.57 My,Ed=-2458.38 Mz,Ed=1.37 L=1.00
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.13 M,cr=80661.50 λ_{LT}=0.35
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.54 β_{LT}=0.75 f=0.98 χ_{LT}=1.00
λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590189.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.24+0.00=0.24
Verifica ZZ: 0.00+0.15+0.00=0.15

Asta n. 9152 (-1099 -1118) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio Dir. Y [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_y=1.74
V,Ed=1.74 Vc,Rd=41300.90 V,Ed/Vc,Rd=0.00

- Verifica a taglio Dir. Z [4.2.16] - CC 7 SLU Xl=0.00 - Classe 1
Sollecitazioni: T_z=1886.34
V,Ed=1886.34 Vc,Rd=28950.20 V,Ed/Vc,Rd=0.07

- Verifica a presso o tenso-flessione retta YY (4.2.4.1.2.7) - CC 7 SLU Xl=1.00 - Classe 1
Sollecitazioni: N=-6.57 T_z=1850.82 M_y=-1864.90 T_y=1.74
My,Ed=-1864.90 My,V,c,Rd=9652.05
N,Ed=-6.57 Nc,Rd=-102450.00 YY n=N,Ed/Nc,Rd=0.00 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.19

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.57 My,Ed=-1864.90 Mz,Ed=-2.13 L=1.00
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=1.00 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.75 M,cr=125371.00 λ_{LT}=0.28
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.51 β_{LT}=0.75 f=0.99 χ_{LT}=1.00
λ_Y=10.01 Ncr,y=8097980.00 λ^*_y=0.12 Curva a: Φ_y=0.50 χ_y=1.00
λ_Z=37.06 Ncr,z=590189.00 λ^*_z=0.43 Curva b: Φ_z=0.63 χ_z=0.92
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.18+0.00=0.18
Verifica ZZ: 0.00+0.11+0.00=0.11

Asta n. 90911 (-1110 -1124) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio e torsione Dir. Y [4.2.24] - CC 7 SLU Xl=0.08 - Classe 1
Sollecitazioni: T_y=-368.47 M_x=9.68
V,Ed=-368.47 Vc,Rd,Red=40376.60 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione Dir. Z [4.2.24] - CC 7 SLU Xl=0.08 - Classe 1
Sollecitazioni: T_z=443.19 M_x=9.68
V,Ed=443.19 Vc,Rd,Red=28302.40 V,Ed/Vc,Rd,Red=0.02

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=0.08 - Classe 1
Sollecitazioni: N=2.70 T_z=443.19 M_y=184.79 T_y=-368.47 M_z=130.43 M_x=9.68
N,Ed=2.70 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
Pressoflessione retta YY [4.2.33]:
My,Ed=184.79 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.02
Pressoflessione retta ZZ [4.2.34]:
Mz,Ed=130.43 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.07
α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.07

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-2.89 My,Ed=184.79 Mz,Ed=130.43 L=0.50
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=0.50 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.75 M,cr=479933.00 λ_{LT}=0.15
$\lambda_{LT,0}$=0.40 Φ_{LT}=0.46 β_{LT}=0.75 f=1.00 χ_{LT}=1.00
λ_Y=5.01 Ncr,y=32264500.00 λ^*_y=0.06 Curva a: Φ_y=0.49 χ_y=1.00
λ_Z=18.57 Ncr,z=2351470.00 λ^*_z=0.21 Curva b: Φ_z=0.53 χ_z=1.00
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.02+0.04=0.06
Verifica ZZ: 0.00+0.01+0.06=0.07

- Verifica freccia massima per soli carichi accidentali - CC 10
$f_{Z,L}$=0.00

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=0.00

Asta n. 91011 (-1111 -1125) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio e torsione Dir. Y [4.2.24] - CC 7 SLU Xl=0.08 - Classe 1
  Sollecitazioni: T_y=83.64 M_x=-1.89
  V,Ed=83.64 Vc,Rd,Red=41122.20 V,Ed/Vc,Rd,Red=0.00

- Verifica a taglio e torsione Dir. Z [4.2.24] - CC 7 SLU Xl=0.08 - Classe 1
  Sollecitazioni: T_z=787.84 M_x=-1.89
  V,Ed=787.84 Vc,Rd,Red=28825.00 V,Ed/Vc,Rd,Red=0.03

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=0.08 - Classe 1
  Sollecitazioni: N=2.70 T_z=787.84 M_y=332.49 T_y=83.64 M_z=-30.44 M_x=-1.89
  N,Ed=2.70 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
  Pressoflessione retta YY [4.2.33]:
  My,Ed=332.49 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.03
  Pressoflessione retta ZZ [4.2.34]:
  Mz,Ed=-30.44 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.02
  α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.03

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
  Sollecitazioni: N,Ed=-2.89 My,Ed=332.49 Mz,Ed=-30.44 L=0.50
  αmy, αmz, αLT=0.95, 0.95, 0.95
  L_{cr}=0.50 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.75 M,cr=478634.00 λ_{LT}=0.15
  $\lambda_{LT,0}$=0.40 Φ_{LT}=0.46 β_{LT}=0.75 f=1.00 χ_{LT}=1.00
  λ_Y=5.01 Ncr,y=32264500.00 λ^*_y=0.06 Curva a: Φ_y=0.49 χ_y=1.00
  λ_Z=18.57 Ncr,z=2351470.00 λ^*_z=0.21 Curva b: Φ_z=0.53 χ_z=1.00
  Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
  Verifica YY: 0.00+0.03+0.01=0.04
  Verifica ZZ: 0.00+0.02+0.01=0.03

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,L}$=0.00

- Verifica freccia massima carichi totali - CC 10
  $f_{Z,L}$=0.00 (L/35296)

Asta n. 91521 (-1109 -1126) - Sez. 37 (IPE240) - Crit. 2

- Verifica a taglio e torsione Dir. Y [4.2.24] - CC 7 SLU Xl=0.08 - Classe 1
  Sollecitazioni: T_y=302.23 M_x=-7.17
  V,Ed=302.23 Vc,Rd,Red=40617.90 V,Ed/Vc,Rd,Red=0.01

- Verifica a taglio e torsione Dir. Z [4.2.24] - CC 7 SLU Xl=0.08 - Classe 1
  Sollecitazioni: T_z=349.43 M_x=-7.17
  V,Ed=349.43 Vc,Rd,Red=28471.50 V,Ed/Vc,Rd,Red=0.01

- Verifica a presso o tenso flessione biassiale (EC3 6.41) - CC 7 SLU Xl=0.08 - Classe 1
  Sollecitazioni: N=2.70 T_z=349.43 M_y=144.73 T_y=302.23 M_z=-109.05 M_x=-7.17
  N,Ed=2.70 Nc,Rd=102450.00 n=N,Ed/Nc,Rd=0.00
  Pressoflessione retta YY [4.2.33]:
  My,Ed=144.73 My,V,c,Rd=9652.05 MNy,c,Rd=9652.05 My,Ed/MNy,c,Rd=0.01
  Pressoflessione retta ZZ [4.2.34]:
  Mz,Ed=-109.05 Mz,V,c,Rd=1940.16 MNz,c,Rd=1940.16 Mz,Ed/MNz,c,Rd=0.06
  α=2.00 β=1.00 $(My,Ed/MNy,c,Rd)^2+(Mz,Ed/MNz,c,Rd)^1$=0.06

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
  Sollecitazioni: N,Ed=-2.89 My,Ed=144.73 Mz,Ed=-109.05 L=0.50
  αmy, αmz, αLT=0.95, 0.95, 0.95
  L_{cr}=0.50 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.75 M,cr=480499.00 λ_{LT}=0.15
  $\lambda_{LT,0}$=0.40 Φ_{LT}=0.46 β_{LT}=0.75 f=1.00 χ_{LT}=1.00
  λ_Y=5.01 Ncr,y=32264500.00 λ^*_y=0.06 Curva a: Φ_y=0.49 χ_y=1.00
  λ_Z=18.57 Ncr,z=2351470.00 λ^*_z=0.21 Curva b: Φ_z=0.53 χ_z=1.00
  Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
  Verifica YY: 0.00+0.01+0.03=0.05
  Verifica ZZ: 0.00+0.01+0.05=0.06

- Verifica freccia massima per soli carichi accidentali - CC 10
  $f_{Z,G}$=0.00

- Verifica freccia massima carichi totali - CC 9
  $f_{Z,L}$=0.00

Membratura
 Asta n. 909 (-1110 -1117 -1116 -1115 -749) - Sez. 37 (IPE240) - Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
  Sollecitazioni: N,Ed=-6.57 My,Ed=3115.93 Mz,Ed=69.93 L=3.99
  αmy, αmz, αLT=0.95, 0.95, 0.95
  L_{cr}=3.99 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.02 M,cr=7349.88 λ_{LT}=1.17

$\lambda_{LT,0}$=0.40 Φ_{LT}=1.15 β_{LT}=0.75 f=0.98 χ_{LT}=0.61
λ_Y=40.02 Ncr,y=506124.00 λ^*_y=0.46 Curva a: Φ_y=0.63 χ_y=0.94
λ_Z=148.25 Ncr,z=36886.80 λ^*_z=1.71 Curva b: Φ_z=2.21 χ_z=0.28
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.50+0.02=0.53
Verifica ZZ: 0.00+0.30+0.03=0.34

- Verifica freccia massima per soli carichi accidentali - CC 10
$f_{Z,L}$=0.08 (L/5285)

- Verifica freccia massima carichi totali - CC 10
$f_{Z,L}$=0.47 (L/852)

Membratura
Asta n. 910 (-1111 -1114 -1113 -1112 -750) - Sez. 37 (IPE240) - Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.58 My,Ed=5492.77 Mz,Ed=16.17 L=3.99
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=3.99 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.02 M,cr=7350.05 λ_{LT}=1.17
$\lambda_{LT,0}$=0.40 Φ_{LT}=1.15 β_{LT}=0.75 f=0.98 χ_{LT}=0.61
λ_Y=40.02 Ncr,y=506124.00 λ^*_y=0.46 Curva a: Φ_y=0.63 χ_y=0.94
λ_Z=148.25 Ncr,z=36886.80 λ^*_z=1.71 Curva b: Φ_z=2.21 χ_z=0.28
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.89+0.00=0.89
Verifica ZZ: 0.00+0.53+0.01=0.54

- Verifica freccia massima per soli carichi accidentali - CC 10
$f_{Z,L}$=0.13 (L/2968)

- Verifica freccia massima carichi totali - CC 10
$f_{Z,L}$=0.83 (L/483) $f_{Z,G}$=0.82 (L/484)

Membratura
Asta n. 9152 (-1109 -1120 -1119 -1118 -1099) - Sez. 37 (IPE240) - Crit. 2

- Verifica di stabilità aste presso-inflesse (C4.2.4.1.3.3.2) - CC 7 SLU - Classe 1
Sollecitazioni: N,Ed=-6.57 My,Ed=2458.39 Mz,Ed=57.41 L=3.99
αmy, αmz, αLT=0.95, 0.95, 0.95
L_{cr}=3.99 Curva b: α_{imp}=0.34 k_c=0.94 ψ=1.02 M,cr=7347.64 λ_{LT}=1.17
$\lambda_{LT,0}$=0.40 Φ_{LT}=1.15 β_{LT}=0.75 f=0.98 χ_{LT}=0.61
λ_Y=40.02 Ncr,y=506124.00 λ^*_y=0.46 Curva a: Φ_y=0.63 χ_y=0.94
λ_Z=148.25 Ncr,z=36886.80 λ^*_z=1.71 Curva b: Φ_z=2.21 χ_z=0.28
Kyy, Kyz, Kzy, Kzz=0.95, 0.57, 0.57, 0.95
Verifica YY: 0.00+0.40+0.02=0.42
Verifica ZZ: 0.00+0.24+0.03=0.27

- Verifica freccia massima per soli carichi accidentali - CC 10
$f_{Z,L}$=0.06 (L/6758)

- Verifica freccia massima carichi totali - CC 10
$f_{Z,L}$=0.37 (L/1081)

Verifiche collegamenti strutture intelaiate

Simbologia

Σ_T	<daN/cmq>	= Somma tensioni nel cordone di saldatura
α		= Coefficiente α
σ	<daN/cmq>	= Tensione normale
σ_{ID}	<daN/cmq>	= Tensione ideale nel cordone di saldatura
σ_O	<daN/cmq>	= Tensione normale ortogonale all'asse del cordone di saldatura
σ_c	<daN/cmq>	= Tensione nel calcestruzzo
τ	<daN/cmq>	= Tensione tangenziale
τ_O	<daN/cmq>	= Tensione tangenziale ortogonale all'asse del cordone di saldatura
τ_P	<daN/cmq>	= Tensione tangenziale parallela all'asse del cordone di saldatura
Bb,Rd,p	<daN>	= Resistenza a punzonamento lato piastra
Bnetta	<mm>	= Larghezza sezione al netto di eventuali fori
Bp,Ed,p	<daN>	= Azione di punzonamento di progetto lato piastra
CB		= Classe del bullone
D0	<mm>	= Diametro nominale del foro di alloggiamento del bullone
Fb,Ed,p	<daN>	= Azione di rifollamento di progetto lato piastra
Fb,Rd,p	<daN>	= Resistenza a rifollamento lato piastra
Ft,Ed	<daN>	= Trazione nei bulloni
Ft,Rd	<daN>	= Resistenza a trazione del bullone
Ftb	<daN/cmq>	= Tensione di rottura dei bulloni
Fv,Ed	<daN>	= Taglio nei bulloni
Fv,Rd	<daN>	= Resistenza a taglio del bullone
Fyb	<daN/cmq>	= Tensione di snervamento dei bulloni
Fyk	<daN/cmq>	= Tensione caratteristica di snervamento dell'acciaio
Fyt	<daN/cmq>	= Tensione caratteristica di rottura
Hnetta	<mm>	= Altezza sezione al netto di eventuali fori
Int. V-T		= Controllo interazione taglio/trazione [4.2.71]
K		= Coefficiente K

LT <m> = Lunghezza tirafondi
Mx_l <daNm> = Momento flettente intorno all'asse X locale
My <daNm> = Momento flettente intorno all'asse Y del collegamento
My_l <daNm> = Momento flettente intorno all'asse Y locale
Mz <daNm> = Momento flettente intorno all'asse Z del collegamento
N <daN> = Sforzo normale agente sul collegamento
N_l <daN> = Sforzo normale in direzione Z locale
NO <daN> = Azione che genera tensione normale ortogonale
RT <daN> = Resistenza tirafondi
TO <daN> = Azione che genera tensione tangenziale ortogonale
TP <daN> = Azione che genera tensione tangenziale parallela
Tp = Tipo di acciaio
Tx_l <daN> = Taglio in direzione X locale
Ty <daN> = Taglio in direzione Y agente sul collegamento
Ty_l <daN> = Taglio in direzione Y locale
Tz <daN> = Taglio in direzione Z agente sul collegamento
e1 <mm> = Distanza e1
e2 <mm> = Distanza e2

Collegamenti -1099_-1118 -749_-1115 -750_-1112

Piastra 220.00 x 300.00 s=10.00 - 4 Tirafondi ϕ 16 - Profondità di infissione: 300.00
2 righe ad interasse 200.00
2 colonne ad interasse 160.00
Altezza di gola saldature: anima 7.07 - ala 7.07

Caratteristiche meccaniche

Tp	Fyk <daN/cmq>	Fyt <daN/cmq>	CB	Fyb <daN/cmq>	Ftb <daN/cmq>
S275 UNI EN 10025-2	2750.00	4300.00	6.8	4800.00	6000.00

Tirafondi e calcestruzzo
CC 5 SLU Asta n. 909 (-749 -1115)
Azioni sul collegamento: N=6.57 Tz=-2096.85
Sollecitazioni agenti localmente: Ty_l=-2096.85 N_l=6.57
Taglio nei bulloni: Fv,Ed=524.21 Fv,Rd=5790.58
Rifollamento lato piastra: e1=50.00 e2=190.00 e2=30.00 D0=17.00 α=0.00 K=0.00 Fb,Ed,p=524.21 Fb,Rd,p=13490.20
Trazione nei bulloni: Ft,Ed=1.64 Ft,Rd=6782.40
Punzonamento lato piastra: Bp,Ed,p=1.64 Bb,Rd,p=20749.60
Int. V-T=0.09
Tirafondi:LT=0.39 (0.30) RT=3142.17
Compressione nel calcestruzzo: σ_c=0.00
CC 7 SLU Asta n. 910 (-750 -1112)
Azioni sul collegamento: N=6.57 Tz=-4196.22
Sollecitazioni agenti localmente: Ty_l=-4196.22 N_l=6.57
Taglio nei bulloni: Fv,Ed=1049.05 Fv,Rd=5790.58
Rifollamento lato piastra: e1=50.00 e2=190.00 e2=30.00 D0=17.00 α=0.00 K=0.00 Fb,Ed,p=1049.05 Fb,Rd,p=13490.20
Trazione nei bulloni: Ft,Ed=1.64 Ft,Rd=6782.40
Punzonamento lato piastra: Bp,Ed,p=1.64 Bb,Rd,p=20749.60
Int. V-T=0.18
Tirafondi:LT=0.39 (0.30) RT=3142.17
Compressione nel calcestruzzo: σ_c=0.00

Saldatura profilo-piastra
CC 5 SLU Asta n. 909 (-749 -1115)
Azioni sul collegamento: N=6.57 Tz=-2096.85
Sollecitazioni agenti localmente: Ty_l=-2096.85 N_l=6.57
Azioni sul cordone: TP=0.00 TO=-296.00 NO=0.93
Tensioni nel cordone: τ_P=0.00 τ_0=41.87 σ_0=0.13 σ_{ID}=41.87 Σ_T=42.00
CC 7 SLU Asta n. 910 (-750 -1112)
Azioni sul collegamento: N=6.57 Tz=-4196.22
Sollecitazioni agenti localmente: Ty_l=-4196.22 N_l=6.57
Azioni sul cordone: TP=0.00 TO=-592.35 NO=0.93
Tensioni nel cordone: τ_P=0.00 τ_0=83.78 σ_0=0.13 σ_{ID}=83.78 Σ_T=83.91

Flessione attacco destro piastra
Bnetta=266.00 Hnetta=10.00
CC 5 SLU Asta n. 909 (-749 -1115)
Azioni sul collegamento: N=6.57 Tz=-2096.85
Sollecitazioni agenti localmente: Ty_l=3.29 My_l=0.07
Tensioni nella sezione: σ=1.48 τ=0.12

Flessione attacco sinistro piastra
Bnetta=266.00 Hnetta=10.00
CC 5 SLU Asta n. 909 (-749 -1115)
Azioni sul collegamento: N=6.57 Tz=-2096.85
Sollecitazioni agenti localmente: Ty_l=3.29 My_l=0.07
Tensioni nella sezione: σ=1.48 τ=0.12

Collegamenti 0334_-1110 0335_-1111 0336_-1109

Piastra 250.00 x 250.00 s=10.00 - 4 Tirafondi ϕ 16 - Profondità di infissione: 300.00
2 righe ad interasse 190.00

2 colonne ad interasse 190.00
Altezza di gola saldature: anima 7.07 - ala 7.07

Caratteristiche meccaniche

Tp	Fyk <daN/cmq>	Fyt <daN/cmq>	CB	Fyb <daN/cmq>	Ftb <daN/cmq>
S235 UNI EN 10025-2	2350.00	3600.00	6.8	4800.00	6000.00

Tirafondi e calcestruzzo
CC 3 SND Asta n. 9141 (334 -1110)
Azioni sul collegamento: N=-2363.05 Ty=68.82 Tz=284.48 My=636.50 Mz=153.98
Sollecitazioni agenti localmente: Tx_l=68.82 Ty_l=284.48 N_l=-2363.05 Mx_l=636.50 My_l=153.98
Taglio nei bulloni: Fv,Ed=73.17 Fv,Rd=5790.58
Rifollamento lato piastra: e1=30.87 e2=30.87 e2=226.35 D0=17.00 α=0.00 K=0.00 Fb,Ed,p=73.17 Fb,Rd,p=6971.95
Trazione nei bulloni: Ft,Ed=1398.77 Ft,Rd=6782.40
Punzonamento lato piastra: Bp,Ed,p=1398.77 Bb,Rd,p=17371.80
Int. V-T=0.16
Tirafondi:LT=0.39 (0.30) RT=4488.81
Compressione nel calcestruzzo: σ_c=45.10
CC 3 SND Asta n. 9141 (334 -1110)
Azioni sul collegamento: N=-3450.53 Ty=68.82 Tz=284.48 My=636.50 Mz=153.98
Sollecitazioni agenti localmente: Tx_l=68.82 Ty_l=284.48 N_l=-3450.53 Mx_l=636.50 My_l=153.98
Taglio nei bulloni: Fv,Ed=73.17 Fv,Rd=5790.58
Rifollamento lato piastra: e1=30.87 e2=30.87 e2=226.35 D0=17.00 α=0.00 K=0.00 Fb,Ed,p=73.17 Fb,Rd,p=6971.95
Trazione nei bulloni: Ft,Ed=1176.02 Ft,Rd=6782.40
Punzonamento lato piastra: Bp,Ed,p=1176.02 Bb,Rd,p=17371.80
Int. V-T=0.14
Tirafondi:LT=0.39 (0.30) RT=4488.81
Compressione nel calcestruzzo: σ_c=45.37

Saldatura profilo-piastra
CC 3 SND Asta n. 9141 (334 -1110)
Azioni sul collegamento: N=-2363.05 Ty=68.82 Tz=284.48 My=636.50 Mz=153.98
Sollecitazioni agenti localmente: Tx_l=68.82 Ty_l=284.48 N_l=-2363.05 Mx_l=-636.50 My_l=-153.98
Azioni sul cordone: TP=13.92 TO=57.55 NO=-478.07
Tensioni nel cordone: τ_P=1.41 τ_O=5.81 σ_O=457.25 σ_{ID}=457.29 Σ_T=463.06
CC 3 SND Asta n. 9141 (334 -1110)
Azioni sul collegamento: N=-3450.53 Ty=68.82 Tz=284.48 My=636.50 Mz=153.98
Sollecitazioni agenti localmente: Tx_l=68.82 Ty_l=284.48 N_l=-3450.53 Mx_l=-636.50 My_l=-153.98
Azioni sul cordone: TP=13.92 TO=57.55 NO=-698.08
Tensioni nel cordone: τ_P=1.41 τ_O=5.81 σ_O=479.48 σ_{ID}=479.51 Σ_T=485.29

Flessione attacco superiore piastra
Bnetta=250.00 Hnetta=10.00
CC 3 SND Asta n. 9141 (334 -1110)
Azioni sul collegamento: N=-3450.53 Ty=-15.06 Tz=284.48 My=636.50 Mz=-33.70
Sollecitazioni agenti localmente: Ty_l=-3293.74 Mx_l=-79.93
Tensioni nella sezione: σ=1918.33 τ=131.75

Flessione attacco inferiore piastra
Bnetta=216.00 Hnetta=10.00
CC 3 SND Asta n. 9141 (334 -1110)
Azioni sul collegamento: N=-2363.05 Ty=68.82 Tz=284.48 My=636.50 Mz=153.98
Sollecitazioni agenti localmente: Ty_l=2334.29 Mx_l=35.01
Tensioni nella sezione: σ=972.62 τ=108.07
CC 3 SND Asta n. 9141 (334 -1110)
Azioni sul collegamento: N=-3450.53 Ty=-15.06 Tz=-204.35 My=-457.21 Mz=-33.70
Sollecitazioni agenti localmente: Ty_l=-2499.17 Mx_l=-60.01
Tensioni nella sezione: σ=1440.20 τ=99.97

Flessione attacco destro piastra
Bnetta=250.00 Hnetta=10.00
CC 7 SLU Asta n. 9142 (335 -1111)
Azioni sul collegamento: N=-8053.06 Ty=-5.57 Tz=83.84 My=190.10 Mz=-12.62
Sollecitazioni agenti localmente: Ty_l=-1374.08 My_l=-31.52
Tensioni nella sezione: σ=756.48 τ=54.96

Flessione attacco sinistro piastra
Bnetta=250.00 Hnetta=10.00
CC 7 SLU Asta n. 9142 (335 -1111)
Azioni sul collegamento: N=-8053.06 Ty=-5.57 Tz=83.84 My=190.10 Mz=-12.62
Sollecitazioni agenti localmente: Ty_l=-1462.00 My_l=-33.68
Tensioni nella sezione: σ=808.29 τ=58.48

Verifiche e armature pareti

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
Cls = Tipo di calcestruzzo
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
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
K_2 = Coefficiente per distribuzione deformazioni
M'ydy = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
M'ydz = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Z
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
MRdz = Momento resistente allo stato limite ultimo 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
Sez. = Sezione di verifica
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
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tp = Tipo di acciaio
Ty = Taglio in dir. Y
Tz = Taglio in dir. Z
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
Xf = Coordinata X finale
Xi = Coordinata X iniziale
Xv = Coordinata X di verifica
Zona = Zona di verifica
Zv = Coordinata Z di verifica
c = Ricoprimento dell'armatura
ctgθ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s = Distanza massima tra le barre

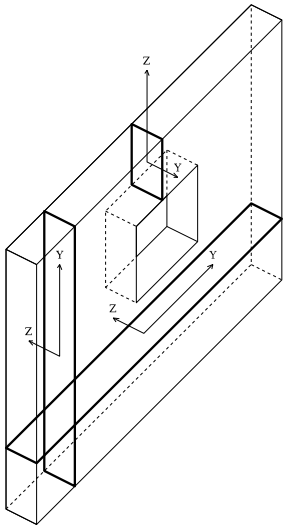

Figura numero 3: Riferimenti sezione

Parete n. 16

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	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>
Oriz.	30.00	4.00	270.90	21.43	170.57	113.71	10.58	4300.00	4300.00	3739.13
A-A	30.00	4.30	270.90	21.43	170.57	113.71	10.58	4300.00	4300.00	3739.13

Verifiche su sezioni orizzontali
Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	MRdy <daNm>	Sic.
7	SLU	Diff.	0.00	0.00	1.90	-35140.30	281.84	-1079220.00	17970.90	30.712
7	SLU	Diff.	1.32	0.00	1.90	-35659.60	111.36	-1079220.00	18029.70	30.265
7	SLU	Diff.	2.64	0.00	1.90	-36749.00	-76.06	-1079220.00	-18153.10	29.367
7	SLU	Diff.	3.96	0.00	1.90	-29673.10	-521.14	-29673.10	-17349.20	33.291
7	SLU	Diff.	5.28	0.00	1.90	-27540.00	889.82	-27540.00	17105.80	19.224
7	SLU	Diff.	6.60	0.00	1.90	-10189.30	-2094.99	-10189.30	-15120.50	7.217
7	SLU	Sez.A-A	3.96	1.60	1.90	-8757.29	-505.69	-8757.29	-7171.94	14.182

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	M'ydy <daNm>	Sic.
3	SND	Diff.	0.00	0.00	1.90	13330.90	3395.59	13330.90	10988.50	3.236
3	SND	Diff.	1.32	0.00	1.90	5135.99	1438.64	5135.99	11979.40	8.327
3	SND	Diff.	2.64	0.00	1.90	-8704.69	-751.32	-8704.69	-13624.00	18.134
3	SND	Diff.	3.96	0.00	1.90	-16979.80	-1159.86	-16979.80	-14586.70	12.576
3	SND	Diff.	5.28	0.00	1.90	-15338.90	1855.00	-15338.90	14397.40	7.761
3	SND	Diff.	6.60	0.00	1.90	-5570.18	-2610.90	-5570.18	-13254.10	5.076
1	SND	Sez.A-A	0.00	1.60	1.90	-23974.80	-252.00	-153510.00	-8352.41	6.403

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff.	0.00	0.00	1.90	-26658.00	208.07	5.30	76.61
8	SLE R	Diff.	0.00	0.00	1.90	-25064.60	220.60	5.06	72.91
14	SLE Q	Diff.	0.00	0.00	1.90	-24417.80	190.96	4.85	70.19
10	SLE R	Diff.	1.32	0.00	1.90	-27033.30	82.68	4.96	73.20
8	SLE R	Diff.	1.32	0.00	1.90	-25285.90	86.76	4.67	68.80
14	SLE Q	Diff.	1.32	0.00	1.90	-24597.40	77.03	4.52	66.67
10	SLE R	Diff.	2.64	0.00	1.90	-27840.20	-54.72	5.01	74.32
8	SLE R	Diff.	2.64	0.00	1.90	-25887.20	-63.54	4.70	69.55
14	SLE Q	Diff.	2.64	0.00	1.90	-25144.40	-49.07	4.53	67.11
10	SLE R	Diff.	3.96	0.00	1.90	-22493.70	-397.69	5.18	72.42
8	SLE R	Diff.	3.96	0.00	1.90	-21027.30	-367.87	4.83	67.56
14	SLE Q	Diff.	3.96	0.00	1.90	-20326.70	-370.12	4.71	65.82
10	SLE R	Diff.	5.28	0.00	1.90	-20852.80	677.37	5.78	77.94
8	SLE R	Diff.	5.28	0.00	1.90	-19386.40	643.66	5.42	72.95
14	SLE Q	Diff.	5.28	0.00	1.90	-18685.80	626.61	5.24	70.53
10	SLE R	Diff.	6.60	0.00	1.90	-7735.40	-1588.59	11.04	263.56
14	SLE Q	Diff.	6.60	0.00	1.90	-7061.28	-1433.85	9.94	234.90
10	SLE R	Sez.A-A	3.96	1.60	1.90	-6635.43	-383.48	12.56	160.60
10	SLE R	Sez.A-A	6.60	1.60	1.90	48.57	-25.39	0.59	21.85
14	SLE Q	Sez.A-A	3.96	1.60	1.90	-5926.45	-348.01	11.32	144.47

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	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>
14	SLE Q	Diff.	6.60	0.00	1.90	-7061.28	-1433.85	33.00	450.00	0.50	16.50	222.79	12.44	1182.18	234.90	0.07	0.03
12	SLE F	Diff.	6.60	0.00	1.90	-7149.22	-1454.40	33.00	450.00	0.50	16.50	222.85	12.44	1182.59	238.77	0.07	0.03
14	SLE Q	Sez.A-A	6.60	1.60	1.90	42.43	-22.73	33.00	214.00	0.50	20.00	137.83	6.28	225.65	19.48	0.01	0.00
12	SLE F	Sez.A-A	6.60	1.60	1.90	43.32	-23.05	33.00	214.00	0.50	20.00	137.85	6.28	225.74	19.78	0.01	0.00

Parete n. 120

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	1.52	-21747.50	-795.70	0.00	-823930.00	-64127.90	0.00	37.886
5	SLU	Diff. tras.	0.00	0.00	1.52	-20909.00	0.00	335.63	-20909.00	0.00	11878.60	35.392
7	SLU	Diff. long.	1.27	0.00	1.52	-17262.60	860.65	0.00	-823930.00	61295.10	0.00	47.729
7	SLU	Diff. tras.	1.27	0.00	1.52	-17262.60	0.00	90.82	-823930.00	0.00	11453.60	47.729
7	SLU	Diff. long.	2.53	0.00	1.52	-11414.80	-164.98	0.00	-823930.00	-57559.20	0.00	72.181
7	SLU	Diff. tras.	2.53	0.00	1.52	-11414.80	0.00	-202.28	-11414.80	0.00	-10773.30	53.259
7	SLU	Diff. long.	3.80	0.00	1.52	-6859.20	-2028.33	0.00	-6859.20	-54624.40	0.00	26.931
7	SLU	Diff. tras.	3.80	0.00	1.52	-6859.20	0.00	-650.16	-6859.20	0.00	-10241.40	15.752

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
2	SND	Diff. long.	0.00	0.00	1.52	29360.80	-14725.40	0.00	29360.80	-16807.00	0.00	1.141
1	SND	Diff. long.	1.27	0.00	1.52	30472.70	8835.54	0.00	30472.70	16124.40	0.00	1.825
1	SND	Diff. tras.	2.53	0.00	1.52	12778.10	0.00	-547.39	12778.10	0.00	-6945.17	12.688
1	SND	Diff. long.	3.80	0.00	1.52	1116.99	-16247.20	0.00	1116.99	-33949.40	0.00	2.090

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	1.52	-16492.10	0.00	237.76	4.35	61.56

8	SLE R	Diff. tras.	0.00	0.00	1.52	-15933.10	0.00	247.66	4.27	60.26
14	SLE Q	Diff. tras.	0.00	0.00	1.52	-15429.80	0.00	221.38	4.07	57.54
10	SLE R	Diff. long.	1.27	0.00	1.52	-13066.30	654.52	0.00	3.22	47.85
9	SLE R	Diff. long.	1.27	0.00	1.52	-12521.50	618.24	0.00	3.08	45.75
14	SLE Q	Diff. long.	1.27	0.00	1.52	-12199.70	570.84	0.00	2.97	44.22
10	SLE R	Diff. tras.	2.53	0.00	1.52	-8599.05	0.00	-150.27	2.37	33.26
9	SLE R	Diff. tras.	2.53	0.00	1.52	-8138.09	0.00	-138.22	2.23	31.30
14	SLE Q	Diff. tras.	2.53	0.00	1.52	-7992.37	0.00	-136.67	2.19	30.78
10	SLE R	Diff. tras.	3.80	0.00	1.52	-5121.04	0.00	-484.30	3.38	40.36
14	SLE Q	Diff. tras.	3.80	0.00	1.52	-4705.71	0.00	-439.78	3.07	36.72

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	1.52	SND	-17930.00	0.00	17930.00	2.50	43842.40	113875.00	43842.40	2.445
1	Diff. tras.	0.00	0.00	1.52	SND	0.00	1819.46	1819.46				19283.40	10.598
1	Diff. long.	1.27	0.00	1.52	SND	17161.40	0.00	17161.40	2.50	43842.40	113875.00	43842.40	2.555
3	Diff. tras.	1.27	0.00	1.52	SND	0.00	-988.75	988.75				19283.40	19.503
1	Diff. long.	2.53	0.00	1.52	SND	-20414.20	0.00	20414.20	2.50	43842.40	113875.00	43842.40	2.148
3	Diff. tras.	2.53	0.00	1.52	SND	0.00	-744.37	744.37				19283.40	25.906
1	Diff. long.	3.80	0.00	1.52	SND	-26043.90	0.00	26043.90	2.50	43842.40	113875.00	43842.40	1.683
3	Diff. tras.	3.80	0.00	1.52	SND	0.00	1482.25	1482.25				19510.30	13.163

Parete n. 121

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	1.52	-27135.90	485.12	0.00	-815079.00	61751.80	0.00	30.037
7	SLU	Diff. tras.	0.00	0.00	1.52	-27135.90	0.00	360.23	-815079.00	0.00	11589.20	30.037
7	SLU	Diff. long.	1.32	0.00	1.52	-24713.80	1851.08	0.00	-24713.80	60236.00	0.00	32.541
7	SLU	Diff. tras.	1.32	0.00	1.52	-24713.80	0.00	103.20	-815079.00	0.00	11306.30	32.981
7	SLU	Diff. long.	2.64	0.00	1.52	-18709.80	3475.57	0.00	-18709.80	56449.00	0.00	16.242
7	SLU	Diff. tras.	2.64	0.00	1.52	-18709.80	0.00	-200.26	-815079.00	0.00	-10605.10	43.564
7	SLU	Diff. long.	3.96	0.00	1.52	-10053.70	4845.04	0.00	-10053.70	50930.80	0.00	10.512
7	SLU	Diff. tras.	3.96	0.00	1.52	-10053.70	0.00	301.12	-10053.70	0.00	9590.43	31.849
7	SLU	Diff. long.	5.28	0.00	1.52	-11486.50	1946.04	0.00	-11486.50	51849.20	0.00	26.643
7	SLU	Diff. tras.	5.28	0.00	1.52	-11486.50	0.00	166.61	-11486.50	0.00	9758.67	58.573
7	SLU	Diff. long.	6.60	0.00	1.52	-12151.10	-2230.79	0.00	-12151.10	-52274.30	0.00	23.433
5	SLU	Diff. tras.	6.60	0.00	1.52	-11235.30	0.00	-188.73	-11235.30	0.00	-9728.97	51.551
7	SLU	Loc.	0.00	0.00	0.30	-4827.49	0.00	57.50	-165857.00	0.00	2849.02	34.357

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	1.52	-8958.12	19252.60	0.00	-8958.12	36366.00	0.00	1.889
1	SND	Diff. long.	1.32	0.00	1.52	-9875.72	12957.60	0.00	-9875.72	36901.50	0.00	2.848
1	SND	Diff. long.	2.64	0.00	1.52	-8428.96	10644.70	0.00	-8428.96	36060.60	0.00	3.388
1	SND	Diff. long.	3.96	0.00	1.52	1184.77	12498.10	0.00	1184.77	30373.60	0.00	2.430
1	SND	Diff. long.	5.28	0.00	1.52	-3459.29	5705.02	0.00	-3459.29	33139.40	0.00	5.809
1	SND	Diff. long.	6.60	0.00	1.52	-6087.62	-4870.55	0.00	-6087.62	-34686.90	0.00	7.122
1	SND	Loc.	0.00	0.00	0.30	7190.70	0.00	365.18	7190.70	0.00	1221.41	3.345

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	1.52	-20657.90	0.00	271.25	5.39	76.52
8	SLE R	Diff. tras.	0.00	0.00	1.52	-20189.00	0.00	276.94	5.31	75.31
14	SLE Q	Diff. tras.	0.00	0.00	1.52	-19684.10	0.00	258.56	5.13	72.91
10	SLE R	Diff. long.	1.32	0.00	1.52	-18798.20	1401.39	0.00	5.03	74.56
9	SLE R	Diff. long.	1.32	0.00	1.52	-18336.20	1348.85	0.00	4.89	72.52
14	SLE Q	Diff. long.	1.32	0.00	1.52	-17866.30	1259.24	0.00	4.72	70.03
10	SLE R	Diff. long.	2.64	0.00	1.52	-14281.20	2633.12	0.00	5.07	74.51
9	SLE R	Diff. long.	2.64	0.00	1.52	-13833.00	2568.34	0.00	4.93	72.37
14	SLE Q	Diff. long.	2.64	0.00	1.52	-13517.50	2396.74	0.00	4.73	69.43
10	SLE R	Diff. long.	3.96	0.00	1.52	-7685.00	3663.98	0.00	5.19	74.73
14	SLE Q	Diff. long.	3.96	0.00	1.52	-7351.43	3285.64	0.00	4.62	66.65
10	SLE R	Diff. long.	5.28	0.00	1.52	-8741.20	1479.27	0.00	3.00	44.10
8	SLE R	Diff. long.	5.28	0.00	1.52	-8333.67	1420.90	0.00	2.87	42.16
14	SLE Q	Diff. long.	5.28	0.00	1.52	-8130.22	1383.91	0.00	2.80	41.11
10	SLE R	Diff. long.	6.60	0.00	1.52	-9205.66	-1664.70	0.00	3.25	47.66
14	SLE Q	Diff. long.	6.60	0.00	1.52	-8295.93	-1347.77	0.00	2.80	41.21
10	SLE R	Loc.	3.96	0.00	0.30	1160.37	0.00	23.52	5.37	490.56
14	SLE Q	Loc.	0.00	0.00	0.30	-3533.57	0.00	40.92	4.72	64.15

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. long.	3.96	0.00	1.52	-7351.43	3285.64	0.00	33.00	222.00	0.50	12.00	378.13	2.26	292.50	31.58	0.01	0.01

12	SLE F	Diff. long.	3.96	0.00	1.52	-7396.85	3329.73	0.00	33.00	222.00	0.50	12.00	383.68	2.26	292.50	32.77	0.01	0.01

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	1.52	SND	-7220.06	0.00	7220.06	2.50	43842.40	115229.00	43842.40	6.072
1	Diff. tras.	0.00	0.00	1.52	SND	0.00	2314.65	2314.65				20452.50	8.836
1	Diff. long.	1.32	0.00	1.52	SND	7295.78	0.00	7295.78	2.50	43842.40	115368.00	43842.40	6.009
1	Diff. tras.	1.32	0.00	1.52	SND	0.00	-1593.25	1593.25				20572.20	12.912
1	Diff. long.	2.64	0.00	1.52	SND	6838.09	0.00	6838.09	2.50	43842.40	115149.00	43842.40	6.412
3	Diff. tras.	2.64	0.00	1.52	SND	0.00	-1214.99	1214.99				20599.90	16.955
1	Diff. long.	3.96	0.00	1.52	SND	-12319.20	0.00	12319.20	2.50	43842.40	113875.00	43842.40	3.559
3	Diff. tras.	3.96	0.00	1.52	SND	0.00	812.95	812.95				19541.10	24.037
1	Diff. long.	5.28	0.00	1.52	SND	-13015.90	0.00	13015.90	2.50	43842.40	114398.00	43842.40	3.368
3	Diff. tras.	5.28	0.00	1.52	SND	0.00	-880.82	880.82				19898.00	22.590
1	Diff. long.	6.60	0.00	1.52	SND	7759.47	0.00	7759.47	2.50	43842.40	114795.00	43842.40	5.650
3	Diff. tras.	6.60	0.00	1.52	SND	0.00	570.87	570.87				20067.20	35.152

Parete n. 122

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	2.10	-59167.40	-635.34	0.00	-1116740.00	-131173.00	0.00	18.874
5	SLU	Diff. tras.	0.00	0.00	2.10	-58094.30	0.00	-1006.37	-58094.30	0.00	-17724.80	17.613
7	SLU	Diff. long.	1.32	0.00	2.10	-57099.60	2749.96	0.00	-1116740.00	129436.00	0.00	19.558
7	SLU	Diff. tras.	1.32	0.00	2.10	-57099.60	0.00	43.43	-1116740.00	0.00	17609.40	19.558
5	SLU	Diff. long.	2.64	0.00	2.10	-52058.50	6466.38	0.00	-52058.50	125178.00	0.00	19.358
5	SLU	Diff. tras.	2.64	0.00	2.10	-52058.50	0.00	1283.28	-52058.50	0.00	17023.30	13.265
7	SLU	Diff. long.	3.96	0.00	2.10	-36967.60	4636.94	0.00	-36967.60	112158.00	0.00	24.188
5	SLU	Diff. tras.	3.96	0.00	2.10	-35229.00	0.00	-6061.74	-35229.00	0.00	-15058.40	2.484
7	SLU	Diff. long.	5.28	0.00	2.10	-28846.30	8709.70	0.00	-28846.30	104987.00	0.00	12.054
7	SLU	Diff. tras.	5.28	0.00	2.10	-28846.30	0.00	1458.86	-28846.30	0.00	14311.40	9.810
7	SLU	Diff. long.	6.60	0.00	2.10	-17545.20	14158.00	0.00	-17545.20	94843.70	0.00	6.699
7	SLU	Diff. tras.	6.60	0.00	2.10	-17545.20	0.00	7407.19	-17545.20	0.00	12982.80	1.753

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	2.10	-36931.50	-42469.40	0.00	-36931.50	-83255.50	0.00	1.960
1	SND	Diff. long.	1.32	0.00	2.10	-35541.10	33817.30	0.00	-35541.10	82190.00	0.00	2.430
1	SND	Diff. long.	2.64	0.00	2.10	-33686.10	28607.10	0.00	-33686.10	80756.30	0.00	2.823
3	SND	Diff. tras.	3.96	0.00	2.10	-21477.10	0.00	-5342.41	-21477.10	0.00	-12236.60	2.290
1	SND	Diff. long.	5.28	0.00	2.10	-17676.40	13626.30	0.00	-17676.40	68169.40	0.00	5.003
3	SND	Diff. tras.	6.60	0.00	2.10	-9851.05	0.00	6474.80	-9851.05	0.00	10850.00	1.676

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
8	SLE R	Diff. tras.	0.00	0.00	2.10	-44093.90	0.00	-689.12	8.70	122.62
14	SLE Q	Diff. tras.	0.00	0.00	2.10	-42167.30	0.00	-487.30	7.82	111.66
10	SLE R	Diff. long.	1.32	0.00	2.10	-43214.80	2060.41	0.00	7.42	110.78
9	SLE R	Diff. long.	1.32	0.00	2.10	-42161.70	1987.07	0.00	7.23	107.94
14	SLE Q	Diff. long.	1.32	0.00	2.10	-40556.00	1891.69	0.00	6.94	103.71
8	SLE R	Diff. tras.	2.64	0.00	2.10	-39472.60	0.00	888.14	8.59	118.63
8	SLE R	Diff. long.	2.64	0.00	2.10	-39472.60	4834.68	0.00	8.03	119.32
14	SLE Q	Diff. tras.	2.64	0.00	2.10	-37601.90	0.00	651.12	7.61	106.64
8	SLE R	Diff. tras.	3.96	0.00	2.10	-26890.90	0.00	-4502.19	27.69	617.32
14	SLE Q	Diff. tras.	3.96	0.00	2.10	-25973.10	0.00	-4045.18	24.39	490.96
10	SLE R	Diff. tras.	5.28	0.00	2.10	-21904.90	0.00	1134.20	6.65	86.76
10	SLE R	Diff. long.	5.28	0.00	2.10	-21904.90	6608.90	0.00	6.13	90.32
14	SLE Q	Diff. tras.	5.28	0.00	2.10	-20128.80	0.00	933.74	5.79	76.19
10	SLE R	Diff. tras.	6.60	0.00	2.10	-13297.40	0.00	5594.60	38.25	1625.35
14	SLE Q	Diff. tras.	6.60	0.00	2.10	-12055.20	0.00	5023.40	34.33	1453.97

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. tras.	3.96	0.00	2.10	-25973.10	0.00	-4045.18	33.00	300.00	0.50	12.00	221.59	10.18	1319.80	490.96	0.14	0.05
11	SLE F	Diff. tras.	3.96	0.00	2.10	-26045.80	0.00	-4143.09	33.00	300.00	0.50	12.00	223.24	10.18	1333.77	521.93	0.15	0.06
14	SLE Q	Diff. tras.	6.60	0.00	2.10	-12055.20	0.00	5023.40	33.00	300.00	0.50	12.00	257.24	10.18	1622.15	1453.97	0.42	0.19
12	SLE F	Diff. tras.	6.60	0.00	2.10	-12214.90	0.00	5095.32	33.00	300.00	0.50	12.00	257.25	10.18	1622.29	1475.39	0.43	0.19

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	2.10	SND	-15608.10	0.00	15608.10	2.50	60807.00	163563.00	60807.00	3.896
3	Diff. tras.	0.00	0.00	2.10	SND	0.00	-2729.14	2729.14				31361.60	11.491
1	Diff. long.	1.32	0.00	2.10	SND	16462.50	0.00	16462.50	2.50	60807.00	163351.00	60807.00	3.694

3	Diff. tras.	1.32	0.00	2.10	SND	0.00	1912.99	1912.99				31178.50	16.298
1	Diff. long.	2.64	0.00	2.10	SND	16196.80	0.00	16196.80	2.50	60807.00	163068.00	60807.00	3.754
3	Diff. tras.	2.64	0.00	2.10	SND	0.00	1518.45	1518.45				30891.50	20.344
1	Diff. long.	3.96	0.00	2.10	SND	23718.60	0.00	23718.60	2.50	60807.00	161288.00	60807.00	2.564
3	Diff. tras.	3.96	0.00	2.10	SND	0.00	4503.94	4503.94				29357.00	6.518
1	Diff. long.	5.28	0.00	2.10	SND	26125.00	0.00	26125.00	2.50	60807.00	160630.00	60807.00	2.328
7	Diff. tras.	5.28	0.00	2.10	SLU	0.00	6317.26	6317.26				30318.70	4.799
1	Diff. long.	6.60	0.00	2.10	SND	-20930.40	0.00	20930.40	2.50	60807.00	159374.00	60807.00	2.905
1	Diff. tras.	6.60	0.00	2.10	SND	0.00	-5195.40	5195.40				27784.30	5.348

Parete n. 123

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	1.52	-32131.70	4099.99	0.00	-32131.70	64859.20	0.00	15.819
5	SLU	Diff. tras.	0.00	0.00	1.52	-31085.90	0.00	730.07	-31085.90	0.00	12049.90	16.505
7	SLU	Diff. long.	1.20	0.00	1.52	-27671.60	-1071.83	0.00	-815079.00	-62086.20	0.00	29.455
7	SLU	Diff. tras.	1.20	0.00	1.52	-27671.60	0.00	70.67	-815079.00	0.00	11652.00	29.455
7	SLU	Diff. long.	2.41	0.00	1.52	-21472.60	-5276.07	0.00	-21472.60	-58196.60	0.00	11.030
5	SLU	Diff. tras.	2.41	0.00	1.52	-20928.60	0.00	-544.64	-20928.60	0.00	-10864.80	19.949
7	SLU	Diff. long.	3.61	0.00	1.52	-12261.10	-5827.54	0.00	-12261.10	-52344.40	0.00	8.982
5	SLU	Diff. tras.	3.61	0.00	1.52	-12129.30	0.00	-1252.22	-12129.30	0.00	-9834.14	7.853
7	SLU	Diff. long.	4.82	0.00	1.52	-8945.44	-7085.66	0.00	-8945.44	-50220.60	0.00	7.088
5	SLU	Diff. tras.	4.82	0.00	1.52	-8667.25	0.00	661.80	-8667.25	0.00	9427.55	14.245
7	SLU	Diff. long.	6.02	0.00	1.52	-6576.95	1237.28	0.00	-6576.95	48699.30	0.00	39.360
5	SLU	Diff. tras.	6.02	0.00	1.52	-6257.38	0.00	762.51	-6257.38	0.00	9143.32	11.991
5	SLU	Loc.	3.61	1.23	1.52	1324.17	0.00	-378.19	1324.17	0.00	-2105.92	5.568

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	1.52	-17201.50	19050.80	0.00	-17201.50	41129.20	0.00	2.159
1	SND	Diff. long.	1.20	0.00	1.52	-16132.70	-11456.70	0.00	-16132.70	-40517.00	0.00	3.537
1	SND	Diff. long.	2.41	0.00	1.52	-12151.00	-13023.80	0.00	-12151.00	-38225.80	0.00	2.935
3	SND	Diff. long.	3.61	0.00	1.52	-6.10	-9833.61	0.00	-6.10	-31081.20	0.00	3.161
1	SND	Diff. long.	4.82	0.00	1.52	273.84	-12483.40	0.00	273.84	-30917.30	0.00	2.477
3	SND	Diff. tras.	6.02	0.00	1.52	-177.06	0.00	1225.17	-177.06	0.00	7510.35	6.130
3	SND	Loc.	3.61	1.23	1.52	6810.77	0.00	-465.64	6810.77	0.00	-1271.24	2.730

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	1.52	-24428.90	3110.42	0.00	7.57	111.57
9	SLE R	Diff. long.	0.00	0.00	1.52	-23815.90	3001.37	0.00	7.35	108.42
14	SLE Q	Diff. long.	0.00	0.00	1.52	-23060.80	2793.37	0.00	7.03	103.70
10	SLE R	Diff. long.	1.20	0.00	1.52	-21027.00	-812.17	0.00	5.02	74.79
9	SLE R	Diff. long.	1.20	0.00	1.52	-20474.80	-802.37	0.00	4.90	72.96
14	SLE Q	Diff. long.	1.20	0.00	1.52	-19851.60	-760.53	0.00	4.73	70.54
10	SLE R	Diff. long.	2.41	0.00	1.52	-16306.40	-4000.78	0.00	6.59	96.40
9	SLE R	Diff. long.	2.41	0.00	1.52	-15853.90	-3897.09	0.00	6.41	93.81
14	SLE Q	Diff. long.	2.41	0.00	1.52	-15442.10	-3649.74	0.00	6.13	89.71
8	SLE R	Diff. tras.	3.61	0.00	1.52	-9218.96	0.00	-928.15	6.66	77.89
10	SLE R	Diff. long.	3.61	0.00	1.52	-9306.83	-4422.81	0.00	6.27	90.17
14	SLE Q	Diff. tras.	3.61	0.00	1.52	-8920.99	0.00	-837.51	5.94	70.85
10	SLE R	Diff. long.	4.82	0.00	1.52	-6797.19	-5379.51	0.00	8.92	218.85
14	SLE Q	Diff. long.	4.82	0.00	1.52	-6392.47	-4889.46	0.00	8.02	187.68
8	SLE R	Diff. tras.	6.02	0.00	1.52	-4758.29	0.00	582.78	4.41	54.71
14	SLE Q	Diff. tras.	6.02	0.00	1.52	-4535.22	0.00	571.12	4.36	57.63
10	SLE R	Loc.	3.61	1.23	1.52	1226.26	0.00	-246.56	19.84	857.50
10	SLE R	Loc.	4.82	1.23	1.52	2002.14	0.00	96.32	14.47	933.39
14	SLE Q	Loc.	3.61	1.23	1.52	1010.08	0.00	-238.82	17.93	765.58

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. long.	3.61	0.00	1.52	-8920.99	-3994.97	0.00	33.00	222.00	0.50	12.00	379.65	2.26	292.49	38.64	0.01	0.01
12	SLE F	Diff. long.	3.61	0.00	1.52	-8926.75	-4057.65	0.00	33.00	222.00	0.50	12.00	391.19	2.26	292.50	41.23	0.01	0.01
14	SLE Q	Diff. long.	4.82	0.00	1.52	-6392.47	-4889.46	0.00	33.00	222.00	0.50	12.00	708.26	2.26	292.50	187.68	0.05	0.07
12	SLE F	Diff. long.	4.82	0.00	1.52	-6442.65	-4952.50	0.00	33.00	222.00	0.50	12.00	710.16	2.26	292.50	191.76	0.06	0.07
14	SLE Q	Diff. tras.	6.02	0.00	1.52	-4535.22	0.00	571.12	33.00	300.00	0.50	12.00	190.20	7.92	819.41	57.63	0.02	0.01
13	SLE F	Diff. tras.	6.02	0.00	1.52	-4535.22	0.00	571.12	33.00	300.00	0.50	12.00	190.20	7.92	819.41	57.63	0.02	0.01
14	SLE Q	Loc.	3.61	1.23	1.52	1010.08	0.00	-238.82	33.00	123.50	0.50	12.00	222.41	1.13	147.41	765.58	0.22	0.08
11	SLE F	Loc.	3.61	1.23	1.52	989.40	0.00	-248.37	33.00	123.50	0.50	12.00	227.45	1.13	152.17	774.72	0.23	0.09

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	1.52	SND	11740.90	0.00	11740.90	2.50	43842.40	116654.00	43842.40	3.734

3	Diff. tras.	0.00	0.00	1.52	SND	0.00	2587.19	2587.19				21681.50	8.380
3	Diff. long.	1.20	0.00	1.52	SND	-11678.80	0.00	11678.80	2.50	43842.40	116567.00	43842.40	3.754
3	Diff. tras.	1.20	0.00	1.52	SND	0.00	-2160.20	2160.20				21606.70	10.002
3	Diff. long.	2.41	0.00	1.52	SND	11127.30	0.00	11127.30	2.50	43842.40	115470.00	43842.40	3.940
3	Diff. tras.	2.41	0.00	1.52	SND	0.00	1933.98	1933.98				20660.00	10.683
3	Diff. long.	3.61	0.00	1.52	SND	-9280.45	0.00	9280.45	2.50	43842.40	113876.00	43842.40	4.724
3	Diff. tras.	3.61	0.00	1.52	SND	0.00	-2713.09	2713.09				19284.20	7.108
1	Diff. long.	4.82	0.00	1.52	SND	15984.60	0.00	15984.60	2.50	43842.40	113875.00	43842.40	2.743
3	Diff. tras.	4.82	0.00	1.52	SND	0.00	1076.72	1076.72				19379.40	17.999
1	Diff. long.	6.02	0.00	1.52	SND	-17114.50	0.00	17114.50	2.50	43842.40	114087.00	43842.40	2.562
3	Diff. tras.	6.02	0.00	1.52	SND	0.00	762.69	762.69				19306.50	25.314

Parete n. 124

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	1.52	-24502.00	2191.45	0.00	-24502.00	60103.60	0.00	27.426
5	SLU	Diff. tras.	0.00	0.00	1.52	-24382.00	0.00	-429.12	-24382.00	0.00	-11267.70	26.258
5	SLU	Diff. long.	1.32	0.00	1.52	-21539.80	-168.70	0.00	-815079.00	-58237.70	0.00	37.841
5	SLU	Diff. tras.	1.32	0.00	1.52	-21539.80	0.00	24.95	-815079.00	0.00	10935.80	37.841
7	SLU	Diff. long.	2.64	0.00	1.52	-17379.30	-2400.44	0.00	-17379.30	-55604.90	0.00	23.165
5	SLU	Diff. tras.	2.64	0.00	1.52	-17562.90	0.00	553.63	-17562.90	0.00	10471.00	18.913
7	SLU	Diff. long.	3.96	0.00	1.52	-9172.48	-3831.45	0.00	-9172.48	-50366.50	0.00	13.146
5	SLU	Diff. tras.	3.96	0.00	1.52	-9213.18	0.00	-1733.80	-9213.18	0.00	-9491.27	5.474
7	SLU	Diff. long.	5.28	0.00	1.52	-9209.23	-1952.20	0.00	-9209.23	-50389.60	0.00	25.812
5	SLU	Diff. tras.	5.28	0.00	1.52	-9056.08	0.00	-426.40	-9056.08	0.00	-9472.93	22.216
7	SLU	Diff. long.	6.60	0.00	1.52	-8837.22	-555.63	0.00	-8837.22	-50151.10	0.00	90.260
5	SLU	Diff. tras.	6.60	0.00	1.52	-8418.49	0.00	808.99	-8418.49	0.00	9397.88	11.617
5	SLU	Loc.	3.96	1.23	1.52	799.19	0.00	-437.20	799.19	0.00	-2170.13	4.964

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	1.52	-5784.39	19779.40	0.00	-5784.39	34507.90	0.00	1.745
1	SND	Diff. long.	1.32	0.00	1.52	-5893.45	-12580.00	0.00	-5893.45	-34573.00	0.00	2.748
1	SND	Diff. long.	2.64	0.00	1.52	-5942.79	-10375.20	0.00	-5942.79	-34601.50	0.00	3.335
1	SND	Diff. long.	3.96	0.00	1.52	635.44	-11610.50	0.00	635.44	-30698.60	0.00	2.644
1	SND	Diff. long.	5.28	0.00	1.52	-3226.87	-5231.51	0.00	-3226.87	-32999.20	0.00	6.308
3	SND	Diff. tras.	6.60	0.00	1.52	-6040.86	0.00	1660.43	-6040.86	0.00	8219.54	4.950
3	SND	Loc.	0.00	1.23	1.52	5365.44	0.00	-557.26	5365.44	0.00	-1454.46	2.610

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	1.52	-18676.80	1661.73	0.00	5.21	77.14
14	SLE Q	Diff. long.	0.00	0.00	1.52	-18087.40	1492.86	0.00	4.95	73.38
10	SLE R	Diff. long.	1.32	0.00	1.52	-16410.50	-154.73	0.00	3.53	52.91
9	SLE R	Diff. long.	1.32	0.00	1.52	-16267.90	-150.96	0.00	3.50	52.42
14	SLE Q	Diff. long.	1.32	0.00	1.52	-15921.50	-132.28	0.00	3.41	51.13
8	SLE R	Diff. tras.	2.64	0.00	1.52	-13353.80	0.00	410.93	4.43	60.00
10	SLE R	Diff. long.	2.64	0.00	1.52	-13231.40	-1822.58	0.00	4.21	62.00
14	SLE Q	Diff. tras.	2.64	0.00	1.52	-12902.90	0.00	373.26	4.18	56.91
8	SLE R	Diff. tras.	3.96	0.00	1.52	-7033.00	0.00	-1292.21	10.93	264.14
14	SLE Q	Diff. tras.	3.96	0.00	1.52	-6873.96	0.00	-1179.91	9.84	219.27
8	SLE R	Diff. tras.	5.28	0.00	1.52	-6923.39	0.00	-314.54	2.71	35.64
10	SLE R	Diff. long.	5.28	0.00	1.52	-7025.49	-1477.75	0.00	2.64	38.73
14	SLE Q	Diff. tras.	5.28	0.00	1.52	-6765.91	0.00	-280.76	2.54	33.64
8	SLE R	Diff. tras.	6.60	0.00	1.52	-6439.84	0.00	608.50	4.32	51.43
14	SLE Q	Diff. tras.	6.60	0.00	1.52	-6258.34	0.00	565.73	4.00	48.12
8	SLE R	Loc.	3.96	1.23	1.52	613.11	0.00	-320.89	19.82	795.13
14	SLE Q	Loc.	3.96	1.23	1.52	568.23	0.00	-280.36	17.45	703.78

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. tras.	3.96	0.00	1.52	-6873.96	0.00	-1179.91	33.00	300.00	0.50	12.00	216.26	7.92	991.30	219.27	0.06	0.02
11	SLE F	Diff. tras.	3.96	0.00	1.52	-6906.02	0.00	-1206.14	33.00	300.00	0.50	12.00	217.29	7.92	998.13	229.90	0.07	0.02
14	SLE Q	Loc.	3.96	1.23	1.52	568.23	0.00	-280.36	33.00	123.50	0.50	12.00	258.40	1.13	181.34	703.78	0.20	0.09
11	SLE F	Loc.	3.96	1.23	1.52	562.54	0.00	-290.31	33.00	123.50	0.50	12.00	259.01	1.13	181.91	721.54	0.21	0.09

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	1.52	SND	8438.67	0.00	8438.67	2.50	43842.40	114939.00	43842.40	5.195
3	Diff. tras.	0.00	0.00	1.52	SND	0.00	-2244.47	2244.47				20201.50	9.001
3	Diff. long.	1.32	0.00	1.52	SND	-8618.96	0.00	8618.96	2.50	43842.40	115032.00	43842.40	5.087
3	Diff. tras.	1.32	0.00	1.52	SND	0.00	1747.88	1747.88				20282.30	11.604
3	Diff. long.	2.64	0.00	1.52	SND	-8502.41	0.00	8502.41	2.50	43842.40	115156.00	43842.40	5.156
3	Diff. tras.	2.64	0.00	1.52	SND	0.00	1519.86	1519.86				20389.30	13.415

1	Diff. long.	3.96	0.00	1.52	SND	9584.11	0.00	9584.11	2.50	43842.40	113875.00	43842.40	4.574
3	Diff. tras.	3.96	0.00	1.52	SND	0.00	1946.32	1946.32				19621.90	10.082
1	Diff. long.	5.28	0.00	1.52	SND	9941.11	0.00	9941.11	2.50	43842.40	114363.00	43842.40	4.410
3	Diff. tras.	5.28	0.00	1.52	SND	0.00	1679.49	1679.49				19895.60	11.846
1	Diff. long.	6.60	0.00	1.52	SND	7174.84	0.00	7174.84	2.50	43842.40	114765.00	43842.40	6.111
3	Diff. tras.	6.60	0.00	1.52	SND	0.00	-957.06	957.06				20071.80	20.972

Parete n. 125

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLU	Diff. long.	0.00	0.00	1.32	-18342.00	1758.42	0.00	-18342.00	57837.70	0.00	32.892
5	SLU	Diff. tras.	0.00	0.00	1.32	-18342.00	0.00	-3568.62	-18342.00	0.00	-12247.50	3.432
5	SLU	Diff. long.	1.27	0.00	1.32	-17835.90	-47.19	0.00	-733027.00	-57570.90	0.00	41.098
5	SLU	Diff. tras.	1.27	0.00	1.32	-17835.90	0.00	-101.20	-733027.00	0.00	-12189.90	41.098
5	SLU	Diff. long.	2.53	0.00	1.32	-17512.70	-1717.05	0.00	-17512.70	-57402.30	0.00	33.431
5	SLU	Diff. tras.	2.53	0.00	1.32	-17512.70	0.00	3789.82	-17512.70	0.00	12153.40	3.207
5	SLU	Diff. long.	3.80	0.00	1.32	-16777.60	-3882.43	0.00	-16777.60	-57011.50	0.00	14.684
5	SLU	Diff. tras.	3.80	0.00	1.32	-16777.60	0.00	7952.52	-16777.60	0.00	12069.40	1.518
5	SLU	Loc.	3.80	0.00	0.57	-10678.00	0.00	4741.66	-10678.00	0.00	5325.17	1.123

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	1.32	-4518.18	15979.50	0.00	-4518.18	34244.10	0.00	2.143
1	SND	Diff. long.	1.27	0.00	1.32	-7085.22	-7278.50	0.00	-7085.22	-35487.20	0.00	4.876
3	SND	Diff. tras.	2.53	0.00	1.32	-10987.20	0.00	2773.62	-10987.20	0.00	10556.50	3.806
3	SND	Diff. tras.	3.80	0.00	1.32	-9131.15	0.00	6193.74	-9131.15	0.00	10343.90	1.670
3	SND	Loc.	3.80	0.00	0.57	-4258.76	0.00	3713.64	-4258.76	0.00	4224.36	1.138

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
8	SLE R	Diff. tras.	0.00	0.00	1.32	-13621.50	0.00	-2599.78	22.64	472.50
14	SLE Q	Diff. tras.	0.00	0.00	1.32	-12356.10	0.00	-2223.80	19.23	376.85
8	SLE R	Diff. tras.	1.27	0.00	1.32	-13195.50	0.00	-73.69	3.42	49.89
9	SLE R	Diff. tras.	1.27	0.00	1.32	-12166.20	0.00	-65.22	3.14	45.87
14	SLE Q	Diff. tras.	1.27	0.00	1.32	-11835.10	0.00	-63.02	3.05	44.60
8	SLE R	Diff. tras.	2.53	0.00	1.32	-12892.80	0.00	2760.68	24.34	565.20
14	SLE Q	Diff. tras.	2.53	0.00	1.32	-11392.10	0.00	2360.64	20.74	468.19
8	SLE R	Diff. tras.	3.80	0.00	1.32	-12292.20	0.00	5802.08	52.75	1848.86
14	SLE Q	Diff. tras.	3.80	0.00	1.32	-10699.70	0.00	4983.78	45.30	1581.43
8	SLE R	Loc.	3.80	0.00	0.57	-7831.94	0.00	3459.90	87.41	2783.62
14	SLE Q	Loc.	3.80	0.00	0.57	-6842.73	0.00	2973.09	74.98	2377.58

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. tras.	0.00	0.00	1.32	-12356.10	0.00	-2223.80	33.00	300.00	0.50	16.00	197.95	10.05	829.07	376.85	0.11	0.04
11	SLE F	Diff. tras.	0.00	0.00	1.32	-12673.60	0.00	-2318.56	33.00	300.00	0.50	16.00	198.76	10.05	834.14	400.92	0.12	0.04
14	SLE Q	Diff. tras.	2.53	0.00	1.32	-11392.10	0.00	2360.64	33.00	300.00	0.50	16.00	204.19	10.05	868.29	468.19	0.14	0.05
11	SLE F	Diff. tras.	2.53	0.00	1.32	-11768.70	0.00	2461.41	33.00	300.00	0.50	16.00	204.55	10.05	870.55	492.67	0.14	0.05
14	SLE Q	Diff. tras.	3.80	0.00	1.32	-10699.70	0.00	4983.78	33.00	300.00	0.50	16.00	222.16	10.05	981.18	1581.43	0.46	0.17
11	SLE F	Diff. tras.	3.80	0.00	1.32	-11099.10	0.00	5188.91	33.00	300.00	0.50	16.00	222.20	10.05	981.46	1648.46	0.48	0.18
14	SLE Q	Loc.	3.80	0.00	0.57	-6842.73	0.00	2973.09	33.00	300.00	0.50	16.00	217.90	4.02	381.76	2377.58	0.69	0.26
11	SLE F	Loc.	3.80	0.00	0.57	-7091.57	0.00	3095.12	33.00	300.00	0.50	16.00	217.92	4.02	381.82	2479.25	0.72	0.27

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	1.32	SND	7851.12	0.00	7851.12	2.50	37882.70	99074.70	37882.70	4.825
3	Diff. tras.	0.00	0.00	1.32	SND	0.00	-3761.79	3761.79				17639.00	4.689
1	Diff. long.	1.27	0.00	1.32	SND	-8073.82	0.00	8073.82	2.50	37882.70	99460.70	37882.70	4.692
3	Diff. tras.	1.27	0.00	1.32	SND	0.00	3117.15	3117.15				17823.30	5.718
1	Diff. long.	2.53	0.00	1.32	SND	-8119.35	0.00	8119.35	2.50	37882.70	100047.00	37882.70	4.666
5	Diff. tras.	2.53	0.00	1.32	SLU	0.00	3126.26	3126.26				18938.80	6.058
1	Diff. long.	3.80	0.00	1.32	SND	7743.32	0.00	7743.32	2.50	37882.70	99681.90	37882.70	4.892
5	Diff. tras.	3.80	0.00	1.32	SLU	0.00	-3991.92	3991.92				18843.60	4.720

Parete n. 126

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	1.52	-12851.40	2896.47	0.00	-12851.40	52064.10	0.00	17.975

7	SLU	Diff. tras.	0.00	0.00	1.52	-12851.40	0.00	31.77	-689559.00	0.00	8048.50	53.656
7	SLU	Diff. long.	1.27	0.00	1.52	-11279.80	2791.95	0.00	-11279.80	51077.60	0.00	18.295
7	SLU	Diff. tras.	1.27	0.00	1.52	-11279.80	0.00	3.83	-689559.00	0.00	7903.53	61.132
7	SLU	Diff. long.	2.53	0.00	1.52	-7425.41	1742.16	0.00	-7425.41	48639.20	0.00	27.919
7	SLU	Diff. tras.	2.53	0.00	1.52	-7425.41	0.00	-172.27	-7425.41	0.00	-7546.52	43.807
7	SLU	Diff. long.	3.80	0.00	1.52	-5556.84	1786.81	0.00	-5556.84	47454.10	0.00	26.558
7	SLU	Diff. tras.	3.80	0.00	1.52	-5556.84	0.00	-1610.15	-5556.84	0.00	-7373.07	4.579
7	SLU	Loc.	2.53	0.00	0.25	-166.34	0.00	-55.91	-166.34	0.00	-1818.37	32.524

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
3	SND	Diff. tras.	0.00	0.00	1.52	-1886.33	0.00	5114.96	-1886.33	0.00	6186.29	1.209
1	SND	Diff. long.	1.27	0.00	1.52	-386.24	10471.80	0.00	-386.24	30953.00	0.00	2.956
1	SND	Diff. long.	2.53	0.00	1.52	-29.11	4678.73	0.00	-29.11	30740.90	0.00	6.570
3	SND	Diff. tras.	3.80	0.00	1.52	-1200.89	0.00	-3191.61	-1200.89	0.00	-6119.47	1.917
3	SND	Loc.	0.00	0.00	0.25	5342.64	0.00	776.93	5342.64	0.00	1149.61	1.480

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	1.52	-9799.52	2179.82	0.00	4.48	65.68
14	SLE Q	Diff. long.	0.00	0.00	1.52	-9229.26	1876.17	0.00	4.06	59.48
10	SLE R	Diff. long.	1.27	0.00	1.52	-8591.89	2102.03	0.00	4.11	60.16
14	SLE Q	Diff. long.	1.27	0.00	1.52	-8032.28	1810.72	0.00	3.70	54.16
10	SLE R	Diff. long.	2.53	0.00	1.52	-5652.34	1306.97	0.00	2.63	38.56
14	SLE Q	Diff. long.	2.53	0.00	1.52	-5260.90	1092.81	0.00	2.33	34.22
10	SLE R	Diff. tras.	3.80	0.00	1.52	-4215.74	0.00	-1217.00	15.57	529.12
14	SLE Q	Diff. tras.	3.80	0.00	1.52	-3831.30	0.00	-1071.47	13.69	458.63
10	SLE R	Loc.	2.53	0.00	0.25	-137.70	0.00	-42.25	2.90	71.49
14	SLE Q	Loc.	2.53	0.00	0.25	-199.51	0.00	-36.99	2.39	46.04

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. tras.	3.80	0.00	1.52	-3831.30	0.00	-1071.47	33.00	300.00	0.50	12.00	208.36	7.92	939.18	458.63	0.13	0.05
12	SLE F	Diff. tras.	3.80	0.00	1.52	-3866.03	0.00	-1085.69	33.00	300.00	0.50	12.00	208.42	7.92	939.61	465.69	0.14	0.05
14	SLE Q	Loc.	2.53	0.00	0.25	-199.51	0.00	-36.99	33.00	123.50	0.50	12.00	132.30	2.26	124.97	46.04	0.01	0.00
12	SLE F	Loc.	2.53	0.00	0.25	-193.96	0.00	-37.48	33.00	123.50	0.50	12.00	132.76	2.26	125.84	48.30	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	1.52	SND	-6243.46	0.00	6243.46	2.50	43842.40	94895.80	43842.40	7.022
3	Diff. tras.	0.00	0.00	1.52	SND	0.00	3194.73	3194.73				17068.50	5.343
1	Diff. long.	1.27	0.00	1.52	SND	6423.74	0.00	6423.74	2.50	43842.40	94954.20	43842.40	6.825
3	Diff. tras.	1.27	0.00	1.52	SND	0.00	-2637.65	2637.65				17154.60	6.504
1	Diff. long.	2.53	0.00	1.52	SND	6034.25	0.00	6034.25	2.50	43842.40	94900.20	43842.40	7.266
3	Diff. tras.	2.53	0.00	1.52	SND	0.00	-1735.95	1735.95				17075.40	9.836
1	Diff. long.	3.80	0.00	1.52	SND	-6960.91	0.00	6960.91	2.50	43842.40	94895.80	43842.40	6.298
1	Diff. tras.	3.80	0.00	1.52	SND	0.00	2954.99	2954.99				16829.70	5.695

Parete n. 127

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	1.52	-17331.00	3292.75	0.00	-17331.00	61616.70	0.00	18.713
7	SLU	Diff. tras.	0.00	0.00	1.52	-17331.00	0.00	-607.86	-17331.00	0.00	-11461.70	18.856
7	SLU	Diff. long.	1.27	0.00	1.52	-15208.30	3660.18	0.00	-15208.30	60250.40	0.00	16.461
7	SLU	Diff. tras.	1.27	0.00	1.52	-15208.30	0.00	-233.36	-15208.30	0.00	-11214.80	48.057
7	SLU	Diff. long.	2.53	0.00	1.52	-9978.41	2768.26	0.00	-9978.41	56849.80	0.00	20.536
7	SLU	Diff. tras.	2.53	0.00	1.52	-9978.41	0.00	345.64	-9978.41	0.00	10605.50	30.683
7	SLU	Diff. long.	3.80	0.00	1.52	-7594.11	3440.00	0.00	-7594.11	55288.80	0.00	16.072
7	SLU	Diff. tras.	3.80	0.00	1.52	-7594.11	0.00	2177.93	-7594.11	0.00	10327.20	4.742

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	1.52	5327.79	30531.10	0.00	5327.79	32104.30	0.00	1.052
1	SND	Diff. long.	1.27	0.00	1.52	2454.35	19262.80	0.00	2454.35	33812.90	0.00	1.755
1	SND	Diff. long.	2.53	0.00	1.52	1660.99	8061.57	0.00	1660.99	34280.60	0.00	4.252
3	SND	Diff. tras.	3.80	0.00	1.52	-1498.17	0.00	3696.30	-1498.17	0.00	8692.30	2.352

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	1.52	-13178.70	2485.76	0.00	4.69	68.82
14	SLE Q	Diff. long.	0.00	0.00	1.52	-12200.50	2166.94	0.00	4.23	62.20

10	SLE R	Diff. long.	1.27	0.00	1.52	-11552.50	2760.04	0.00	4.57	66.88
14	SLE Q	Diff. long.	1.27	0.00	1.52	-10615.50	2393.44	0.00	4.09	59.85
10	SLE R	Diff. long.	2.53	0.00	1.52	-7573.53	2081.16	0.00	3.21	46.94
14	SLE Q	Diff. long.	2.53	0.00	1.52	-6917.56	1766.71	0.00	2.83	41.33
10	SLE R	Diff. tras.	3.80	0.00	1.52	-5746.42	0.00	1644.48	13.98	451.08
14	SLE Q	Diff. tras.	3.80	0.00	1.52	-5132.96	0.00	1451.86	12.33	395.28

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. tras.	3.80	0.00	1.52	-5132.96	0.00	1451.86	33.00	260.00	0.50	12.00	212.17	9.05	1102.12	395.28	0.12	0.04
12	SLE F	Diff. tras.	3.80	0.00	1.52	-5195.71	0.00	1470.77	33.00	260.00	0.50	12.00	212.19	9.05	1102.25	400.63	0.12	0.04

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	1.52	SND	-11121.30	0.00	11121.30	2.50	43842.40	113875.00	43842.40	3.942
3	Diff. tras.	0.00	0.00	1.52	SND	0.00	-4808.36	4808.36				19714.60	4.100
1	Diff. long.	1.27	0.00	1.52	SND	11526.80	0.00	11526.80	2.50	43842.40	113875.00	43842.40	3.804
3	Diff. tras.	1.27	0.00	1.52	SND	0.00	4199.27	4199.27				19755.80	4.705
1	Diff. long.	2.53	0.00	1.52	SND	11759.40	0.00	11759.40	2.50	43842.40	113875.00	43842.40	3.728
3	Diff. tras.	2.53	0.00	1.52	SND	0.00	2480.54	2480.54				19585.90	7.896
1	Diff. long.	3.80	0.00	1.52	SND	-12266.30	0.00	12266.30	2.50	43842.40	113875.00	43842.40	3.574
1	Diff. tras.	3.80	0.00	1.52	SND	0.00	-3328.21	3328.21				19283.40	5.794

Parete n. 128

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	3.00	-28431.40	-4131.51	0.00	-28431.40	-186139.00	0.00	45.054
7	SLU	Diff. tras.	0.00	0.00	3.00	-28431.40	0.00	-710.75	-28431.40	0.00	-14692.80	20.672
7	SLU	Diff. long.	1.13	0.00	3.00	-24047.20	-2111.56	0.00	-1340840.00	-180721.00	0.00	55.758
7	SLU	Diff. tras.	1.13	0.00	3.00	-24047.20	0.00	-139.84	-1340840.00	0.00	-14283.90	55.758
7	SLU	Diff. long.	2.27	0.00	3.00	-18678.80	-1017.53	0.00	-1340840.00	-173884.00	0.00	71.784
7	SLU	Diff. tras.	2.27	0.00	3.00	-18678.80	0.00	196.70	-18678.80	0.00	13782.20	70.066
7	SLU	Diff. long.	3.40	0.00	3.00	-9015.42	-6788.98	0.00	-9015.42	-161417.00	0.00	23.776
7	SLU	Diff. tras.	3.40	0.00	3.00	-9015.42	0.00	331.35	-9015.42	0.00	12885.30	38.887
7	SLU	Loc.	0.00	0.00	0.60	-6919.48	0.00	-68.41	-273478.00	0.00	-3534.77	39.523

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
3	SND	Diff. long.	0.00	0.00	3.00	4274.11	-39228.00	0.00	4274.11	-93499.60	0.00	2.383
3	SND	Diff. long.	1.13	0.00	3.00	-77.28	-22768.00	0.00	-77.28	-98555.70	0.00	4.329
1	SND	Diff. long.	2.27	0.00	3.00	-6763.80	-12596.00	0.00	-6763.80	-106240.00	0.00	8.434
3	SND	Diff. tras.	3.40	0.00	3.00	-2021.84	0.00	1311.90	-2021.84	0.00	10553.20	8.044
3	SND	Loc.	0.00	0.00	0.60	9525.14	0.00	-450.30	9525.14	0.00	-1591.22	3.534

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	3.00	-21581.20	0.00	-536.18	4.32	57.38
8	SLE R	Diff. tras.	0.00	0.00	3.00	-20148.40	0.00	-497.88	4.03	53.49
14	SLE Q	Diff. tras.	0.00	0.00	3.00	-19738.00	0.00	-479.17	3.92	52.13
10	SLE R	Diff. long.	1.13	0.00	3.00	-18233.50	-1606.66	0.00	2.71	40.44
8	SLE R	Diff. long.	1.13	0.00	3.00	-16934.40	-1506.75	0.00	2.52	37.61
14	SLE Q	Diff. long.	1.13	0.00	3.00	-16543.20	-1507.69	0.00	2.47	36.87
10	SLE R	Diff. tras.	2.27	0.00	3.00	-14150.70	0.00	149.11	2.23	31.42
8	SLE R	Diff. tras.	2.27	0.00	3.00	-13094.60	0.00	137.27	2.06	29.05
14	SLE Q	Diff. tras.	2.27	0.00	3.00	-12754.10	0.00	134.59	2.01	28.32
10	SLE R	Diff. long.	3.40	0.00	3.00	-6824.10	-5137.53	0.00	2.25	33.23
14	SLE Q	Diff. long.	3.40	0.00	3.00	-6105.82	-4573.28	0.00	2.01	29.60
10	SLE R	Loc.	0.00	0.00	0.60	-5247.94	0.00	-51.51	4.21	58.29
8	SLE R	Loc.	2.27	0.00	0.60	-3267.41	0.00	6.90	2.25	32.50
14	SLE Q	Loc.	0.00	0.00	0.60	-4778.84	0.00	-45.11	3.81	52.81

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. long.	3.40	0.00	3.00	-6105.82	-4573.28	0.00	33.00	172.00	0.50	12.00	195.31	2.26	243.75	8.34	0.00	0.00
12	SLE F	Diff. long.	3.40	0.00	3.00	-6183.47	-4631.64	0.00	33.00	172.00	0.50	12.00	195.31	2.26	243.75	8.45	0.00	0.00

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	3.00	SND	-20600.50	0.00	20600.50	2.50	87360.30	189854.00	87360.30	4.241
3	Diff. tras.	0.00	0.00	3.00	SND	0.00	-2550.23	2550.23				33107.70	12.982
1	Diff. long.	1.13	0.00	3.00	SND	21398.70	0.00	21398.70	2.50	87360.30	190035.00	87360.30	4.082
3	Diff. tras.	1.13	0.00	3.00	SND	0.00	1413.65	1413.65				33117.40	23.427

1	Diff. long.	2.27	0.00	3.00	SND	20962.70	0.00	20962.70	2.50	87360.30	190125.00	87360.30	4.167
3	Diff. tras.	2.27	0.00	3.00	SND	0.00	1464.20	1464.20				33699.90	23.016
1	Diff. long.	3.40	0.00	3.00	SND	-17508.10	0.00	17508.10	2.50	87360.30	189312.00	87360.30	4.990
3	Diff. tras.	3.40	0.00	3.00	SND	0.00	1598.32	1598.32				33363.60	20.874

Parete n. 129

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	1.32	-22211.60	2821.78	0.00	-22211.60	50244.00	0.00	17.806
7	SLU	Diff. tras.	0.00	0.00	1.32	-22211.60	0.00	93.34	-716309.00	0.00	10840.20	32.249
7	SLU	Diff. long.	1.27	0.00	1.32	-19089.90	-4.83	0.00	-716309.00	-48585.30	0.00	37.523
7	SLU	Diff. tras.	1.27	0.00	1.32	-19089.90	0.00	62.34	-716309.00	0.00	10477.60	37.523
7	SLU	Diff. long.	2.53	0.00	1.32	-12255.00	-2539.82	0.00	-12255.00	-44918.70	0.00	17.686
7	SLU	Diff. tras.	2.53	0.00	1.32	-12255.00	0.00	35.75	-716309.00	0.00	9682.38	58.450
6	SLU	Diff. long.	3.80	0.00	1.32	-4426.50	-1716.76	0.00	-4426.50	-40677.90	0.00	23.695
7	SLU	Diff. tras.	3.80	0.00	1.32	-4867.14	0.00	-23.57	-716309.00	0.00	-8820.93	>100
7	SLU	Loc.	0.00	1.02	1.32	-6573.23	0.00	23.63	-165857.00	0.00	3048.73	25.232

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	1.32	-5023.99	18861.40	0.00	-5023.99	28864.90	0.00	1.530
1	SND	Diff. long.	1.27	0.00	1.32	-7159.28	-7116.40	0.00	-7159.28	-29933.70	0.00	4.206
3	SND	Diff. tras.	2.53	0.00	1.32	-7199.66	0.00	720.07	-7199.66	0.00	8305.06	11.534
1	SND	Diff. long.	3.80	0.00	1.32	3438.98	-8510.26	0.00	3438.98	-24567.20	0.00	2.887
1	SND	Loc.	0.00	1.02	1.32	8832.01	0.00	274.06	8832.01	0.00	1008.31	3.679

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	1.32	-16757.70	2117.83	0.00	6.21	91.15
9	SLE R	Diff. long.	0.00	0.00	1.32	-16126.90	2033.66	0.00	5.97	87.66
14	SLE Q	Diff. long.	0.00	0.00	1.32	-15589.50	1930.82	0.00	5.73	84.21
10	SLE R	Diff. tras.	1.27	0.00	1.32	-14387.00	0.00	46.39	3.63	53.59
9	SLE R	Diff. tras.	1.27	0.00	1.32	-13802.90	0.00	44.99	3.48	51.44
14	SLE Q	Diff. tras.	1.27	0.00	1.32	-13326.70	0.00	43.18	3.36	49.65
10	SLE R	Diff. long.	2.53	0.00	1.32	-9260.79	-1901.36	0.00	4.20	61.24
8	SLE R	Diff. long.	2.53	0.00	1.32	-8777.70	-1883.43	0.00	4.07	59.25
14	SLE Q	Diff. long.	2.53	0.00	1.32	-8464.81	-1734.13	0.00	3.84	55.92
10	SLE R	Diff. long.	3.80	0.00	1.32	-3684.19	-1290.55	0.00	2.38	34.28
8	SLE R	Diff. long.	3.80	0.00	1.32	-3332.47	-1280.23	0.00	2.36	33.88
14	SLE Q	Diff. long.	3.80	0.00	1.32	-3285.93	-1159.14	0.00	2.14	30.77
10	SLE R	Loc.	0.00	1.02	1.32	-4952.14	0.00	18.20	5.84	81.32
9	SLE R	Loc.	3.80	1.02	1.32	-205.76	0.00	-12.22	0.47	5.91
14	SLE Q	Loc.	0.00	1.02	1.32	-4581.53	0.00	15.60	5.38	74.96

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. long.	3.80	0.00	1.32	-3285.93	-1159.14	0.00	33.00	222.00	0.50	12.00	262.94	2.26	292.50	10.25	0.00	0.00
11	SLE F	Diff. long.	3.80	0.00	1.32	-3284.30	-1175.63	0.00	33.00	222.00	0.50	12.00	272.57	2.26	292.50	10.96	0.00	0.00

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	1.32	SND	11572.40	0.00	11572.40	2.50	37941.70	99305.20	37941.70	3.279
1	Diff. tras.	0.00	0.00	1.32	SND	0.00	1477.12	1477.12				17410.10	11.787
1	Diff. long.	1.27	0.00	1.32	SND	-11910.80	0.00	11910.80	2.50	37941.70	99626.80	37941.70	3.186
1	Diff. tras.	1.27	0.00	1.32	SND	0.00	-838.88	838.88				17688.70	21.086
1	Diff. long.	2.53	0.00	1.32	SND	-12013.50	0.00	12013.50	2.50	37941.70	99525.80	37941.70	3.158
3	Diff. tras.	2.53	0.00	1.32	SND	0.00	-607.39	607.39				17694.00	29.131
1	Diff. long.	3.80	0.00	1.32	SND	6914.11	0.00	6914.11	2.50	37941.70	98548.60	37941.70	5.488
3	Diff. tras.	3.80	0.00	1.32	SND	0.00	920.90	920.90				16754.50	18.194

Parete n. 130

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	20.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	2.00	-28032.90	-2341.79	0.00	-738127.00	-96929.10	0.00	26.331
7	SLU	Diff. tras.	0.00	0.00	2.00	-28032.90	0.00	185.76	-738127.00	0.00	8748.53	26.331
7	SLU	Diff. long.	1.27	0.00	2.00	-25537.10	-2715.67	0.00	-738127.00	-95100.10	0.00	28.904

7	SLU	Diff. tras.	1.27	0.00	2.00	-25537.10	0.00	-32.61	-738127.00	0.00	-8581.31	28.904
7	SLU	Diff. long.	2.53	0.00	2.00	-22892.70	-3397.62	0.00	-22892.70	-93054.80	0.00	27.388
7	SLU	Diff. tras.	2.53	0.00	2.00	-22892.70	0.00	-279.58	-22892.70	0.00	-8403.76	30.059
7	SLU	Diff. long.	3.80	0.00	2.00	-18384.50	-4033.60	0.00	-18384.50	-89458.90	0.00	22.178
7	SLU	Diff. tras.	3.80	0.00	2.00	-18384.50	0.00	-301.79	-18384.50	0.00	-8100.40	26.842
7	SLU	Loc.	0.00	0.00	0.20	-3336.07	0.00	19.42	-83548.90	0.00	1524.06	25.044
7	SLU	Loc.	0.00	1.80	2.00	-2249.29	0.00	7.86	-83548.90	0.00	1455.24	37.145

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
3	SND	Diff. long.	0.00	0.00	2.00	-12290.30	-39742.90	0.00	-12290.30	-60115.90	0.00	1.513
3	SND	Diff. long.	1.27	0.00	2.00	-10469.60	-22891.20	0.00	-10469.60	-58789.80	0.00	2.568
3	SND	Diff. long.	2.53	0.00	2.00	-8690.19	-7507.87	0.00	-8690.19	-57497.10	0.00	7.658
3	SND	Diff. long.	3.80	0.00	2.00	-6954.36	-11233.30	0.00	-6954.36	-56221.50	0.00	5.005
3	SND	Loc.	0.00	0.00	0.20	-10463.90	0.00	-25.48	-65846.70	0.00	-1886.87	6.293
3	SND	Loc.	0.00	1.80	2.00	-9515.14	0.00	-53.50	-65846.70	0.00	-1832.12	6.920

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	2.00	-21251.30	-1732.73	0.00	6.11	90.90
8	SLE R	Diff. long.	0.00	0.00	2.00	-20373.80	-1991.45	0.00	6.08	90.36
14	SLE Q	Diff. long.	0.00	0.00	2.00	-19662.60	-1716.69	0.00	5.73	85.21
10	SLE R	Diff. long.	1.27	0.00	2.00	-19355.30	-2018.00	0.00	5.86	87.07
8	SLE R	Diff. long.	1.27	0.00	2.00	-18424.50	-2132.76	0.00	5.72	84.94
14	SLE Q	Diff. long.	1.27	0.00	2.00	-17798.90	-1901.67	0.00	5.42	80.51
10	SLE R	Diff. long.	2.53	0.00	2.00	-17326.70	-2533.20	0.00	5.73	85.01
8	SLE R	Diff. long.	2.53	0.00	2.00	-16435.60	-2496.41	0.00	5.50	81.55
14	SLE Q	Diff. long.	2.53	0.00	2.00	-15824.80	-2292.90	0.00	5.22	77.44
10	SLE R	Diff. long.	3.80	0.00	2.00	-13881.20	-3011.47	0.00	5.26	77.66
8	SLE R	Diff. long.	3.80	0.00	2.00	-13179.50	-2852.08	0.00	4.99	73.67
14	SLE Q	Diff. long.	3.80	0.00	2.00	-12606.80	-2671.35	0.00	4.73	69.91
10	SLE R	Loc.	0.00	0.00	0.20	-2519.35	0.00	14.77	7.12	89.80
9	SLE R	Loc.	2.53	0.00	0.20	-2171.81	0.00	-19.79	6.58	81.49
14	SLE Q	Loc.	0.00	0.00	0.20	-2351.15	0.00	13.54	6.63	83.67
10	SLE R	Loc.	0.00	1.80	2.00	-1714.49	0.00	6.04	4.59	58.80
9	SLE R	Loc.	3.80	1.80	2.00	-568.03	0.00	-12.50	2.18	25.54
14	SLE Q	Loc.	0.00	1.80	2.00	-1561.73	0.00	6.00	4.21	53.85

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	2.00	SND	-11830.40	0.00	11830.40	2.50	57856.70	102053.00	57856.70	4.890
3	Diff. tras.	0.00	0.00	2.00	SND	0.00	-1283.16	1283.16				18664.90	14.546
3	Diff. long.	1.27	0.00	2.00	SND	12725.20	0.00	12725.20	2.50	57856.70	101776.00	57856.70	4.547
1	Diff. tras.	1.27	0.00	2.00	SND	0.00	617.13	617.13				18818.00	30.493
3	Diff. long.	2.53	0.00	2.00	SND	12540.10	0.00	12540.10	2.50	57856.70	101506.00	57856.70	4.614
1	Diff. tras.	2.53	0.00	2.00	SND	0.00	497.97	497.97				18551.90	37.255
3	Diff. long.	3.80	0.00	2.00	SND	-10886.60	0.00	10886.60	2.50	57856.70	101242.00	57856.70	5.314
1	Diff. tras.	3.80	0.00	2.00	SND	0.00	-566.06	566.06				18240.60	32.224

Parete n. 131

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	20.00	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLU	Diff. long.	0.00	0.00	2.00	-23891.90	625.58	0.00	-738127.00	93806.80	0.00	30.894
5	SLU	Diff. tras.	0.00	0.00	2.00	-23891.90	0.00	169.62	-738127.00	0.00	8460.63	30.894
5	SLU	Diff. long.	1.27	0.00	2.00	-23963.00	-3350.79	0.00	-23963.00	-93864.70	0.00	28.013
5	SLU	Diff. tras.	1.27	0.00	2.00	-23963.00	0.00	41.97	-738127.00	0.00	8465.42	30.803
5	SLU	Diff. long.	2.53	0.00	2.00	-22473.90	-9322.64	0.00	-22473.90	-92689.30	0.00	9.942
5	SLU	Diff. tras.	2.53	0.00	2.00	-22473.90	0.00	-241.93	-738127.00	0.00	-8367.77	32.844
5	SLU	Diff. long.	3.80	0.00	2.00	-17805.30	-17289.20	0.00	-17805.30	-88960.10	0.00	5.145
5	SLU	Diff. tras.	3.80	0.00	2.00	-17805.30	0.00	-850.46	-17805.30	0.00	-8060.95	9.478
5	SLU	Loc.	3.80	0.00	0.20	-8353.04	0.00	-372.56	-8353.04	0.00	-1805.68	4.847

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
3	SND	Diff. long.	0.00	0.00	2.00	7767.17	31519.90	0.00	7767.17	45226.90	0.00	1.435
3	SND	Diff. long.	1.27	0.00	2.00	2030.40	-19271.40	0.00	2030.40	-49571.20	0.00	2.572
3	SND	Diff. long.	2.53	0.00	2.00	-8878.37	-14440.20	0.00	-8878.37	-57652.80	0.00	3.993
3	SND	Diff. long.	3.80	0.00	2.00	-10635.60	-11922.50	0.00	-10635.60	-58935.10	0.00	4.943
1	SND	Loc.	3.80	0.00	0.20	-4933.78	0.00	-358.90	-4933.78	0.00	-1532.58	4.270

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>

8	SLE R	Diff. tras.	0.00	0.00	2.00	-17644.30	0.00	123.79	4.96	69.08
9	SLE R	Diff. tras.	0.00	0.00	2.00	-16195.20	0.00	110.74	4.53	63.23
14	SLE Q	Diff. tras.	0.00	0.00	2.00	-15743.80	0.00	106.40	4.40	61.39
8	SLE R	Diff. long.	1.27	0.00	2.00	-17636.30	-2452.73	0.00	5.75	85.26
10	SLE R	Diff. long.	1.27	0.00	2.00	-16068.30	-2224.81	0.00	5.23	77.59
14	SLE Q	Diff. long.	1.27	0.00	2.00	-15573.10	-2130.61	0.00	5.06	74.95
8	SLE R	Diff. long.	2.53	0.00	2.00	-16477.00	-6813.89	0.00	8.50	124.61
14	SLE Q	Diff. long.	2.53	0.00	2.00	-14377.20	-5888.95	0.00	7.37	108.08
8	SLE R	Diff. long.	3.80	0.00	2.00	-13012.70	-12635.80	0.00	16.09	309.24
14	SLE Q	Diff. long.	3.80	0.00	2.00	-11242.50	-10917.60	0.00	13.90	267.22
8	SLE R	Loc.	3.80	0.00	0.20	-6104.73	0.00	-272.00	33.14	353.62
10	SLE R	Loc.	3.80	0.00	0.20	-5463.82	0.00	-243.13	29.63	316.29
14	SLE Q	Loc.	3.80	0.00	0.20	-5274.36	0.00	-234.26	28.57	305.04

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. long.	2.53	0.00	2.00	-14377.20	-5888.95	0.00	35.00	131.93	0.50	12.00	136.02	2.26	124.45	8.88	0.00	0.00
11	SLE F	Diff. long.	2.53	0.00	2.00	-14905.40	-6121.95	0.00	35.00	131.93	0.50	12.00	137.12	2.26	126.52	9.44	0.00	0.00
14	SLE Q	Diff. long.	3.80	0.00	2.00	-11242.50	-10917.60	0.00	35.00	131.93	0.50	12.00	124.38	4.52	205.00	267.22	0.08	0.02
11	SLE F	Diff. long.	3.80	0.00	2.00	-11688.10	-11350.10	0.00	35.00	131.93	0.50	12.00	124.38	4.52	205.00	277.79	0.08	0.02

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	2.00	SND	17243.10	0.00	17243.10	2.50	90308.80	100081.00	90308.80	5.237
3	Diff. tras.	0.00	0.00	2.00	SND	0.00	841.64	841.64				16967.40	20.160
3	Diff. long.	1.27	0.00	2.00	SND	-17827.70	0.00	17827.70	2.50	90308.80	100081.00	90308.80	5.066
3	Diff. tras.	1.27	0.00	2.00	SND	0.00	-204.64	204.64				16967.40	82.912
3	Diff. long.	2.53	0.00	2.00	SND	-17839.70	0.00	17839.70	2.50	90308.80	101431.00	90308.80	5.062
1	Diff. tras.	2.53	0.00	2.00	SND	0.00	-334.85	334.85				18400.40	54.952
3	Diff. long.	3.80	0.00	2.00	SND	17623.90	0.00	17623.90	2.50	90308.80	101698.00	90308.80	5.124
1	Diff. tras.	3.80	0.00	2.00	SND	0.00	1054.15	1054.15				18272.20	17.334

Parete n. 132

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	20.00	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLU	Diff. long.	0.00	0.00	1.90	-8520.02	-3421.49	0.00	-8520.02	-61722.80	0.00	18.040
5	SLU	Diff. tras.	0.00	0.00	1.90	-8520.02	0.00	-101.62	-8520.02	0.00	-6193.43	60.946
5	SLU	Diff. long.	1.27	0.00	1.90	-6058.96	-1622.96	0.00	-6058.96	-59779.60	0.00	36.834
5	SLU	Diff. tras.	1.27	0.00	1.90	-6058.96	0.00	41.88	-687502.00	0.00	6030.56	>100
5	SLU	Diff. long.	2.53	0.00	1.90	35.20	225.16	0.00	35.20	54549.10	0.00	>100
5	SLU	Diff. tras.	2.53	0.00	1.90	35.20	0.00	44.40	35.20	0.00	5519.16	>100
5	SLU	Diff. long.	3.80	0.00	1.90	309.85	181.77	0.00	309.85	54333.10	0.00	>100
5	SLU	Diff. tras.	3.80	0.00	1.90	309.85	0.00	-25.09	309.85	0.00	-5498.74	>100

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
3	SND	Diff. tras.	0.00	0.00	1.90	38271.40	0.00	-949.83	38271.40	0.00	-1404.52	1.479
3	SND	Diff. long.	1.27	0.00	1.90	29427.70	-2609.25	0.00	29427.70	-13567.40	0.00	5.200
3	SND	Diff. tras.	2.53	0.00	1.90	-12526.20	0.00	1.96	-625543.00	0.00	5506.12	49.939
3	SND	Diff. tras.	3.80	0.00	1.90	1557.06	0.00	-52.34	1557.06	0.00	-4422.29	84.486

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
8	SLE R	Diff. long.	0.00	0.00	1.90	-6403.03	-2493.99	0.00	3.55	51.70
14	SLE Q	Diff. long.	0.00	0.00	1.90	-6005.32	-2138.23	0.00	3.15	45.93
8	SLE R	Diff. long.	1.27	0.00	1.90	-4542.40	-1183.07	0.00	2.04	29.87
14	SLE Q	Diff. long.	1.27	0.00	1.90	-4230.46	-1014.53	0.00	1.83	26.86
8	SLE R	Diff. tras.	2.53	0.00	1.90	-26.94	0.00	32.54	0.61	26.24
14	SLE Q	Diff. tras.	2.53	0.00	1.90	-165.75	0.00	28.36	0.49	13.67
8	SLE R	Diff. tras.	3.80	0.00	1.90	226.66	0.00	-18.28	0.31	31.65
8	SLE R	Diff. long.	3.80	0.00	1.90	226.66	132.55	0.00	0.18	33.33
14	SLE Q	Diff. tras.	3.80	0.00	1.90	196.42	0.00	-15.58	0.27	27.21

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. tras.	2.53	0.00	1.90	-165.75	0.00	28.36	35.00	300.00	0.50	12.00	208.63	7.92	914.60	13.67	0.00	0.00
11	SLE F	Diff. tras.	2.53	0.00	1.90	-130.37	0.00	29.41	35.00	300.00	0.50	12.00	213.38	7.92	945.94	16.76	0.00	0.00
14	SLE Q	Diff. long.	3.80	0.00	1.90	196.42	113.79	0.00	35.00	118.00	1.00	12.00	287.51	2.26	205.00	28.77	0.01	0.00
11	SLE F	Diff. long.	3.80	0.00	1.90	204.04	118.54	0.00	35.00	118.00	1.00	12.00	287.51	2.26	205.00	29.92	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	1.90	SND	6117.14	0.00	6117.14	2.50	85698.90	94972.40	85698.90	14.010
3	Diff. tras.	0.00	0.00	1.90	SND	0.00	-1656.37	1656.37				16118.90	9.731
3	Diff. long.	1.27	0.00	1.90	SND	-5478.58	0.00	5478.58	2.50	85699.00	94972.50	85699.00	15.643
3	Diff. tras.	1.27	0.00	1.90	SND	0.00	292.37	292.37				16118.90	55.132
1	Diff. long.	2.53	0.00	1.90	SND	-1612.03	0.00	1612.03	2.50	85698.90	94972.40	85698.90	53.162
3	Diff. tras.	2.53	0.00	1.90	SND	0.00	-481.34	481.34				16118.90	33.488
1	Diff. long.	3.80	0.00	1.90	SND	-568.21	0.00	568.21	2.50	85698.90	94972.40	85698.90	>100
3	Diff. tras.	3.80	0.00	1.90	SND	0.00	148.91	148.91				16118.90	>100

Parete n. 133

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	20.00	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLU	Diff. long.	0.00	0.00	2.00	-6373.54	3258.61	0.00	-6373.54	86334.60	0.00	26.494
5	SLU	Diff. tras.	0.00	0.00	2.00	-6373.54	0.00	93.19	-6373.54	0.00	7880.41	84.563
5	SLU	Diff. long.	1.27	0.00	2.00	-2841.08	1313.78	0.00	-2841.08	83428.40	0.00	63.503
7	SLU	Diff. tras.	1.27	0.00	2.00	-3079.69	0.00	8.95	-746978.00	0.00	7663.90	>100
5	SLU	Diff. long.	2.53	0.00	2.00	750.38	-345.11	0.00	750.38	-80020.20	0.00	>100
5	SLU	Diff. tras.	2.53	0.00	2.00	750.38	0.00	-71.49	750.38	0.00	-7393.79	>100
5	SLU	Diff. long.	3.80	0.00	2.00	2756.01	-2865.45	0.00	2756.01	-78380.50	0.00	27.354
5	SLU	Diff. tras.	3.80	0.00	2.00	2756.01	0.00	-122.88	2756.01	0.00	-7254.37	59.036
5	SLU	Loc.	3.80	1.80	2.00	1110.14	0.00	-50.09	1110.14	0.00	-1229.67	24.547

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
3	SND	Diff. long.	0.00	0.00	2.00	16418.50	31586.30	0.00	16418.50	41946.30	0.00	1.328
3	SND	Diff. long.	1.27	0.00	2.00	13685.50	16953.70	0.00	13685.50	44012.60	0.00	2.596
3	SND	Diff. long.	2.53	0.00	2.00	5926.77	-7896.47	0.00	5926.77	-49814.50	0.00	6.308
3	SND	Diff. long.	3.80	0.00	2.00	2170.98	-2795.03	0.00	2170.98	-52578.40	0.00	18.811
3	SND	Loc.	0.00	1.80	2.00	-9078.10	0.00	-39.07	-65846.70	0.00	-1783.70	7.253

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
8	SLE R	Diff. long.	0.00	0.00	2.00	-4878.01	2380.72	0.00	2.83	41.34
14	SLE Q	Diff. long.	0.00	0.00	2.00	-4811.44	2059.42	0.00	2.53	37.05
8	SLE R	Diff. long.	1.27	0.00	2.00	-2238.19	968.54	0.00	1.19	17.36
14	SLE Q	Diff. long.	1.27	0.00	2.00	-2371.55	861.12	0.00	1.13	16.55
8	SLE R	Diff. tras.	2.53	0.00	2.00	453.43	0.00	-52.37	0.78	54.11
14	SLE Q	Diff. tras.	2.53	0.00	2.00	137.67	0.00	-45.53	0.71	34.55
8	SLE R	Diff. long.	3.80	0.00	2.00	1977.23	-2057.58	0.00	2.43	257.37
14	SLE Q	Diff. long.	3.80	0.00	2.00	1612.80	-1683.09	0.00	1.99	210.28
8	SLE R	Loc.	3.80	1.80	2.00	794.81	0.00	-36.83	7.41	358.52
14	SLE Q	Loc.	3.80	1.80	2.00	643.80	0.00	-32.36	6.37	297.01

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. long.	0.00	0.00	2.00	-4811.44	2059.42	0.00	35.00	118.00	0.50	12.00	156.16	2.26	162.40	4.38	0.00	0.00
11	SLE F	Diff. long.	0.00	0.00	2.00	-4827.12	2142.26	0.00	35.00	118.00	0.50	12.00	171.30	2.26	190.94	5.59	0.00	0.00
14	SLE Q	Diff. tras.	2.53	0.00	2.00	137.67	0.00	-45.53	35.00	250.00	0.50	12.00	185.03	11.31	1084.11	34.55	0.01	0.00
11	SLE F	Diff. tras.	2.53	0.00	2.00	219.15	0.00	-47.24	35.00	250.00	0.50	12.00	187.09	11.31	1103.57	39.53	0.01	0.00
14	SLE Q	Diff. long.	3.80	0.00	2.00	1612.80	-1683.09	0.00	35.00	118.00	1.00	12.00	287.51	2.26	205.00	210.28	0.06	0.03
11	SLE F	Diff. long.	3.80	0.00	2.00	1706.75	-1779.50	0.00	35.00	118.00	1.00	12.00	287.51	2.26	205.00	222.41	0.06	0.03
14	SLE Q	Loc.	3.80	1.80	2.00	643.80	0.00	-32.36	35.00	84.00	0.50	12.00	139.64	1.13	65.63	297.01	0.09	0.02
11	SLE F	Loc.	3.80	1.80	2.00	682.71	0.00	-33.46	35.00	84.00	0.50	12.00	139.23	1.13	65.25	312.72	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	2.00	SND	14853.80	0.00	14853.80	2.50	90308.80	100081.00	90308.80	6.080
3	Diff. tras.	0.00	0.00	2.00	SND	0.00	1305.45	1305.45				16967.40	12.997
3	Diff. long.	1.27	0.00	2.00	SND	-15097.90	0.00	15097.90	2.50	90308.80	100081.00	90308.80	5.982
3	Diff. tras.	1.27	0.00	2.00	SND	0.00	-146.85	146.85				16967.40	>100
3	Diff. long.	2.53	0.00	2.00	SND	-14707.50	0.00	14707.50	2.50	90308.80	100081.00	90308.80	6.140
1	Diff. tras.	2.53	0.00	2.00	SND	0.00	-161.34	161.34				16967.40	>100
3	Diff. long.	3.80	0.00	2.00	SND	14903.50	0.00	14903.50	2.50	90308.80	100081.00	90308.80	6.060
1	Diff. tras.	3.80	0.00	2.00	SND	0.00	473.17	473.17				16967.40	35.859

Parete n. 134

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali
Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLU	Diff. long.	0.00	0.00	1.32	-31044.10	-3653.60	0.00	-31044.10	-54883.50	0.00	15.022
5	SLU	Diff. tras.	0.00	0.00	1.32	-31044.10	0.00	3569.55	-31044.10	0.00	11863.40	3.323
5	SLU	Diff. long.	1.27	0.00	1.32	-27027.30	556.55	0.00	-716310.00	52786.90	0.00	26.503
5	SLU	Diff. tras.	1.27	0.00	1.32	-27027.30	0.00	204.22	-716310.00	0.00	11398.80	26.503
5	SLU	Diff. long.	2.53	0.00	1.32	-21261.40	4342.83	0.00	-21261.40	49740.30	0.00	11.453
5	SLU	Diff. tras.	2.53	0.00	1.32	-21261.40	0.00	-3848.60	-21261.40	0.00	-10730.30	2.788
5	SLU	Diff. long.	3.80	0.00	1.32	-14813.00	7301.18	0.00	-14813.00	46294.90	0.00	6.341
5	SLU	Diff. tras.	3.80	0.00	1.32	-14813.00	0.00	-5851.62	-14813.00	0.00	-9979.77	1.705
5	SLU	Loc.	2.53	0.00	0.30	-1153.65	0.00	-838.78	-1153.65	0.00	-2424.75	2.891

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	1.32	-15760.80	-17473.60	0.00	-15760.80	-34173.90	0.00	1.956
1	SND	Diff. long.	1.27	0.00	1.32	-17421.60	6316.91	0.00	-17421.60	34980.80	0.00	5.538
3	SND	Diff. tras.	2.53	0.00	1.32	-12142.80	0.00	-2912.10	-12142.80	0.00	-8884.76	3.051
3	SND	Diff. tras.	3.80	0.00	1.32	-5791.92	0.00	-4629.25	-5791.92	0.00	-8137.51	1.758
3	SND	Loc.	0.00	0.00	0.30	292.33	0.00	784.93	292.33	0.00	2072.61	2.640

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
8	SLE R	Diff. tras.	0.00	0.00	1.32	-23279.80	0.00	2598.93	21.49	244.29
14	SLE Q	Diff. tras.	0.00	0.00	1.32	-21590.40	0.00	2219.90	18.04	210.45
8	SLE R	Diff. tras.	1.27	0.00	1.32	-20248.30	0.00	148.77	5.49	79.67
9	SLE R	Diff. tras.	1.27	0.00	1.32	-19442.10	0.00	132.50	5.22	75.97
14	SLE Q	Diff. tras.	1.27	0.00	1.32	-18723.50	0.00	127.15	5.03	73.14
8	SLE R	Diff. tras.	2.53	0.00	1.32	-15905.10	0.00	-2801.89	25.83	555.70
14	SLE Q	Diff. tras.	2.53	0.00	1.32	-14640.60	0.00	-2392.99	21.74	425.36
8	SLE R	Diff. tras.	3.80	0.00	1.32	-11051.60	0.00	-4260.82	42.12	1560.04
14	SLE Q	Diff. tras.	3.80	0.00	1.32	-10083.10	0.00	-3640.72	35.91	1295.15
8	SLE R	Loc.	2.53	0.00	0.30	-868.91	0.00	-610.67	30.88	992.38
14	SLE Q	Loc.	2.53	0.00	0.30	-821.07	0.00	-521.59	26.15	828.96

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. tras.	0.00	0.00	1.32	-21590.40	0.00	2219.90	33.00	250.00	0.50	12.00	149.38	7.92	550.10	131.95	0.04	0.01
11	SLE F	Diff. tras.	0.00	0.00	1.32	-21959.10	0.00	2315.84	33.00	250.00	0.50	12.00	152.44	7.92	570.27	149.60	0.04	0.01
14	SLE Q	Diff. tras.	2.53	0.00	1.32	-14640.60	0.00	-2392.99	33.00	250.00	0.50	12.00	191.01	7.92	824.73	425.36	0.12	0.04
11	SLE F	Diff. tras.	2.53	0.00	1.32	-14917.20	0.00	-2496.63	33.00	250.00	0.50	12.00	192.35	7.92	833.58	460.13	0.13	0.04
14	SLE Q	Diff. tras.	3.80	0.00	1.32	-10083.10	0.00	-3640.72	33.00	250.00	0.50	12.00	215.51	7.92	986.38	1295.15	0.38	0.14
11	SLE F	Diff. tras.	3.80	0.00	1.32	-10293.30	0.00	-3797.83	33.00	250.00	0.50	12.00	215.84	7.92	988.53	1364.32	0.40	0.15
14	SLE Q	Loc.	2.53	0.00	0.30	-821.07	0.00	-521.59	33.00	123.50	0.50	12.00	166.69	2.26	189.80	828.96	0.24	0.07
11	SLE F	Loc.	2.53	0.00	0.30	-833.15	0.00	-544.17	33.00	123.50	0.50	12.00	166.70	2.26	189.82	870.38	0.25	0.07

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	1.32	SND	-11949.40	0.00	11949.40	2.50	37941.70	100922.00	37941.70	3.175
3	Diff. tras.	0.00	0.00	1.32	SND	0.00	3032.57	3032.57				19019.30	6.272
1	Diff. long.	1.27	0.00	1.32	SND	12307.40	0.00	12307.40	2.50	37941.70	101172.00	37941.70	3.083
5	Diff. tras.	1.27	0.00	1.32	SLU	0.00	-2821.42	2821.42				20281.50	7.188
1	Diff. long.	2.53	0.00	1.32	SND	12204.90	0.00	12204.90	2.50	37941.70	99882.30	37941.70	3.109
5	Diff. tras.	2.53	0.00	1.32	SLU	0.00	-2788.29	2788.29				19529.00	7.004
1	Diff. long.	3.80	0.00	1.32	SND	-11035.70	0.00	11035.70	2.50	37941.70	98754.70	37941.70	3.438
3	Diff. tras.	3.80	0.00	1.32	SND	0.00	1610.05	1610.05				17510.30	10.876

Parete n. 135

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali
Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	1.32	-56806.40	1751.23	0.00	-698607.00	58617.30	0.00	12.298
5	SLU	Diff. tras.	0.00	0.00	1.32	-55248.10	0.00	1163.25	-55248.10	0.00	12641.80	10.868
7	SLU	Diff. long.	1.20	0.00	1.32	-54158.60	-236.81	0.00	-698607.00	-57315.20	0.00	12.899
7	SLU	Diff. tras.	1.20	0.00	1.32	-54158.60	0.00	82.09	-698607.00	0.00	12517.30	12.899
7	SLU	Diff. long.	2.41	0.00	1.32	-50695.60	-1772.65	0.00	-698607.00	-55591.30	0.00	13.780
5	SLU	Diff. tras.	2.41	0.00	1.32	-49116.40	0.00	-1020.54	-49116.40	0.00	-11939.00	11.699
7	SLU	Diff. long.	3.61	0.00	1.32	-46265.00	-1744.13	0.00	-698607.00	-53347.00	0.00	15.100
5	SLU	Diff. tras.	3.61	0.00	1.32	-44689.70	0.00	-1111.51	-44689.70	0.00	-11430.40	10.284
7	SLU	Diff. long.	4.82	0.00	1.32	-25997.50	-3538.61	0.00	-25997.50	-42551.00	0.00	12.025
5	SLU	Diff. tras.	4.82	0.00	1.32	-24244.10	0.00	2859.09	-24244.10	0.00	9044.79	3.164
7	SLU	Diff. long.	6.02	0.00	1.32	-17012.90	-7951.04	0.00	-17012.90	-37462.80	0.00	4.712
7	SLU	Diff. tras.	6.02	0.00	1.32	-17012.90	0.00	-3440.52	-17012.90	0.00	-8192.34	2.381
5	SLU	Loc.	4.82	1.02	1.32	-2907.89	0.00	626.62	-2907.89	0.00	1605.66	2.562

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	1.32	-32453.70	11994.00	0.00	-32453.70	35050.50	0.00	2.922
1	SND	Diff. long.	1.20	0.00	1.32	-32294.20	-6732.40	0.00	-32294.20	-34972.20	0.00	5.195
1	SND	Diff. long.	2.41	0.00	1.32	-31525.70	-7543.50	0.00	-31525.70	-34608.00	0.00	4.588
3	SND	Diff. tras.	3.61	0.00	1.32	-28358.50	0.00	-1984.83	-28358.50	0.00	-8756.86	4.412
3	SND	Diff. tras.	4.82	0.00	1.32	-15235.10	0.00	2658.43	-15235.10	0.00	7233.16	2.721
3	SND	Diff. tras.	6.02	0.00	1.32	-10198.50	0.00	-3380.77	-10198.50	0.00	-6633.62	1.962
1	SND	Loc.	4.82	1.02	1.32	1884.10	0.00	489.05	1884.10	0.00	842.73	1.723

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
8	SLE R	Diff. tras.	0.00	0.00	1.32	-41826.50	0.00	798.50	13.85	193.05
14	SLE Q	Diff. tras.	0.00	0.00	1.32	-39633.70	0.00	571.57	12.25	173.27
10	SLE R	Diff. tras.	1.20	0.00	1.32	-40849.80	0.00	59.21	10.13	150.93
9	SLE R	Diff. tras.	1.20	0.00	1.32	-39492.70	0.00	60.03	9.81	146.06
14	SLE Q	Diff. tras.	1.20	0.00	1.32	-37673.70	0.00	59.20	9.37	139.44
8	SLE R	Diff. tras.	2.41	0.00	1.32	-37169.20	0.00	-700.33	12.26	171.07
14	SLE Q	Diff. tras.	2.41	0.00	1.32	-35143.80	0.00	-500.78	10.83	153.33
8	SLE R	Diff. tras.	3.61	0.00	1.32	-33824.80	0.00	-718.54	11.54	159.92
14	SLE Q	Diff. tras.	3.61	0.00	1.32	-31963.20	0.00	-406.33	9.62	136.89
8	SLE R	Diff. tras.	4.82	0.00	1.32	-18514.10	0.00	2096.54	18.46	205.44
14	SLE Q	Diff. tras.	4.82	0.00	1.32	-17808.80	0.00	1825.93	15.56	179.75
10	SLE R	Diff. tras.	6.02	0.00	1.32	-12879.40	0.00	-2611.14	27.74	816.88
14	SLE Q	Diff. tras.	6.02	0.00	1.32	-11611.70	0.00	-2347.30	24.92	731.85
8	SLE R	Loc.	4.82	1.02	1.32	-2201.03	0.00	460.01	27.06	730.76
14	SLE Q	Loc.	4.82	1.02	1.32	-2081.48	0.00	401.83	22.62	578.46

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. tras.	4.82	0.00	1.32	-17808.80	0.00	1825.93	33.00	300.00	0.50	12.00	188.01	5.65	574.97	125.29	0.04	0.01
11	SLE F	Diff. tras.	4.82	0.00	1.32	-17837.70	0.00	1892.15	33.00	300.00	0.50	12.00	194.18	5.65	604.02	146.30	0.04	0.01
14	SLE Q	Diff. tras.	6.02	0.00	1.32	-11611.70	0.00	-2347.30	33.00	300.00	0.50	12.00	264.46	5.65	935.25	731.85	0.21	0.10
12	SLE F	Diff. tras.	6.02	0.00	1.32	-11774.10	0.00	-2382.33	33.00	300.00	0.50	12.00	264.51	5.65	935.48	743.58	0.22	0.10
14	SLE Q	Loc.	4.82	1.02	1.32	-2081.48	0.00	401.83	33.00	0.00	0.50	12.00	265.75	1.13	188.25	578.46	0.17	0.08
11	SLE F	Loc.	4.82	1.02	1.32	-2100.34	0.00	415.96	33.00	0.00	0.50	12.00	266.28	1.13	188.76	619.02	0.18	0.08

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	1.32	SND	6448.14	0.00	6448.14	2.50	37941.70	103651.00	37941.70	5.884
1	Diff. tras.	0.00	0.00	1.32	SND	0.00	1640.58	1640.58				20989.60	12.794
3	Diff. long.	1.20	0.00	1.32	SND	-6098.90	0.00	6098.90	2.50	37941.70	103725.00	37941.70	6.221
3	Diff. tras.	1.20	0.00	1.32	SND	0.00	-1202.19	1202.19				21239.60	17.668
3	Diff. long.	2.41	0.00	1.32	SND	5618.39	0.00	5618.39	2.50	37941.70	103513.00	37941.70	6.753
3	Diff. tras.	2.41	0.00	1.32	SND	0.00	1130.97	1130.97				21056.20	18.618
3	Diff. long.	3.61	0.00	1.32	SND	-4202.84	0.00	4202.84	2.50	37941.70	102819.00	37941.70	9.028
3	Diff. tras.	3.61	0.00	1.32	SND	0.00	1456.62	1456.62				20455.20	14.043
1	Diff. long.	4.82	0.00	1.32	SND	-15534.90	0.00	15534.90	2.50	37941.70	100634.00	37941.70	2.442
3	Diff. tras.	4.82	0.00	1.32	SND	0.00	-6466.20	6466.20				18742.60	2.899
1	Diff. long.	6.02	0.00	1.32	SND	14526.20	0.00	14526.20	2.50	37941.70	100124.00	37941.70	2.612
5	Diff. tras.	6.02	0.00	1.32	SLU	0.00	5119.52	5119.52				18816.40	3.675

Parete n. 136

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	1.32	-24315.60	2202.03	0.00	-24315.60	41608.20	0.00	18.895
7	SLU	Diff. tras.	0.00	0.00	1.32	-24315.60	0.00	-36.45	-698607.00	0.00	-9053.30	28.731
7	SLU	Diff. long.	1.27	0.00	1.32	-21330.70	-289.09	0.00	-698607.00	-39926.30	0.00	32.751
7	SLU	Diff. tras.	1.27	0.00	1.32	-21330.70	0.00	52.75	-698607.00	0.00	8702.13	32.751
7	SLU	Diff. long.	2.53	0.00	1.32	-17122.60	-2492.43	0.00	-17122.60	-37527.60	0.00	15.057
7	SLU	Diff. tras.	2.53	0.00	1.32	-17122.60	0.00	165.50	-698607.00	0.00	8205.46	40.800
7	SLU	Diff. long.	3.80	0.00	1.32	-9088.42	-384.05	0.00	-698607.00	-32868.10	0.00	76.868
7	SLU	Diff. tras.	3.80	0.00	1.32	-9088.42	0.00	18.46	-698607.00	0.00	7253.36	76.868
7	SLU	Loc.	0.00	1.02	1.32	-6526.69	0.00	0.06	-157006.00	0.00	2034.96	24.056

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
1	SND	Diff. long.	0.00	0.00	1.32	-5405.31	16907.30	0.00	-5405.31	21599.00	0.00	1.277
1	SND	Diff. long.	1.27	0.00	1.32	-8074.87	-6098.36	0.00	-8074.87	-22977.30	0.00	3.768
3	SND	Diff. tras.	2.53	0.00	1.32	-10522.60	0.00	1190.96	-10522.60	0.00	6672.96	5.603
1	SND	Diff. long.	3.80	0.00	1.32	-62.27	-7342.58	0.00	-62.27	-18809.80	0.00	2.562
1	SND	Loc.	0.00	1.02	1.32	7276.52	0.00	197.81	7276.52	0.00	229.57	1.161

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	1.32	-18336.20	1655.94	0.00	6.22	90.71
9	SLE R	Diff. long.	0.00	0.00	1.32	-17559.00	1566.93	0.00	5.93	86.59
14	SLE Q	Diff. long.	0.00	0.00	1.32	-16813.30	1448.86	0.00	5.62	82.15
10	SLE R	Diff. long.	1.27	0.00	1.32	-16065.20	-216.73	0.00	4.11	61.33
9	SLE R	Diff. long.	1.27	0.00	1.32	-15339.20	-214.78	0.00	3.93	58.67
14	SLE Q	Diff. long.	1.27	0.00	1.32	-14667.90	-204.64	0.00	3.76	56.09
10	SLE R	Diff. long.	2.53	0.00	1.32	-12869.20	-1872.72	0.00	5.13	74.11
9	SLE R	Diff. long.	2.53	0.00	1.32	-12226.50	-1791.61	0.00	4.89	70.59
14	SLE Q	Diff. long.	2.53	0.00	1.32	-11675.80	-1668.54	0.00	4.62	66.79
10	SLE R	Diff. long.	3.80	0.00	1.32	-6810.09	-295.42	0.00	1.96	28.99
9	SLE R	Diff. long.	3.80	0.00	1.32	-6410.51	-303.83	0.00	1.88	27.67
14	SLE Q	Diff. long.	3.80	0.00	1.32	-6137.21	-212.86	0.00	1.71	25.34
10	SLE R	Loc.	0.00	1.02	1.32	-4918.54	0.00	-1.09	5.63	76.43
9	SLE R	Loc.	2.53	1.02	1.32	-1274.46	0.00	24.46	1.97	25.42
14	SLE Q	Loc.	0.00	1.02	1.32	-4468.57	0.00	1.34	5.12	69.52

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	1.32	SND	11106.70	0.00	11106.70	2.50	37941.70	99362.70	37941.70	3.416
1	Diff. tras.	0.00	0.00	1.32	SND	0.00	-1244.01	1244.01				17459.80	14.035
1	Diff. long.	1.27	0.00	1.32	SND	-11433.10	0.00	11433.10	2.50	37941.70	99764.70	37941.70	3.319
3	Diff. tras.	1.27	0.00	1.32	SND	0.00	794.90	794.90				18233.80	22.939
1	Diff. long.	2.53	0.00	1.32	SND	-11397.00	0.00	11397.00	2.50	37941.70	100153.00	37941.70	3.329
3	Diff. tras.	2.53	0.00	1.32	SND	0.00	795.48	795.48				18127.60	22.788
1	Diff. long.	3.80	0.00	1.32	SND	-5928.66	0.00	5928.66	2.50	37941.70	98558.00	37941.70	6.400
3	Diff. tras.	3.80	0.00	1.32	SND	0.00	1796.26	1796.26				17047.20	9.490

Parete n. 137

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	0.85	-8255.69	730.60	0.00	-8255.69	19965.80	0.00	27.328
7	SLU	Diff. tras.	0.00	0.00	0.85	-8255.69	0.00	-10.82	-394066.00	0.00	-5460.96	47.733
7	SLU	Diff. long.	1.27	0.00	0.85	-7562.24	98.08	0.00	-394065.00	19739.00	0.00	52.110
7	SLU	Diff. tras.	1.27	0.00	0.85	-7562.24	0.00	-0.20	-394065.00	0.00	-5397.82	52.110
7	SLU	Diff. long.	2.53	0.00	0.85	-8045.83	-41.65	0.00	-394066.00	-19898.30	0.00	48.978
7	SLU	Diff. tras.	2.53	0.00	0.85	-8045.83	0.00	-11.26	-394066.00	0.00	-5442.08	48.978
6	SLU	Diff. long.	3.80	0.00	0.85	-5069.55	354.26	0.00	-5069.55	18920.70	0.00	53.410
7	SLU	Diff. tras.	3.80	0.00	0.85	-5496.60	0.00	-61.40	-394065.00	0.00	-5209.72	71.692
7	SLU	Loc.	0.00	0.60	0.85	-2877.02	0.00	-2.36	-120588.00	0.00	-2061.90	41.914

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
3	SND	Diff. long.	0.00	0.00	0.85	3897.26	6820.67	0.00	3897.26	11730.90	0.00	1.720
3	SND	Diff. long.	1.27	0.00	0.85	2330.07	1761.41	0.00	2330.07	12243.20	0.00	6.951
1	SND	Diff. tras.	2.53	0.00	0.85	-10387.40	0.00	-93.07	-349811.00	0.00	-5216.03	33.676
3	SND	Diff. long.	3.80	0.00	0.85	-829.43	2806.22	0.00	-829.43	13263.60	0.00	4.727
1	SND	Loc.	3.80	0.60	0.85	609.69	0.00	-320.90	609.69	0.00	-1610.32	5.018

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	0.85	-6277.52	549.70	0.00	4.36	63.11
8	SLE R	Diff. long.	0.00	0.00	0.85	-5878.91	488.21	0.00	4.00	58.04
14	SLE Q	Diff. long.	0.00	0.00	0.85	-5798.98	476.57	0.00	3.93	57.05
10	SLE R	Diff. long.	1.27	0.00	0.85	-5741.69	73.68	0.00	2.72	40.49
8	SLE R	Diff. long.	1.27	0.00	0.85	-5327.94	67.98	0.00	2.52	37.56
14	SLE Q	Diff. long.	1.27	0.00	0.85	-5246.83	64.34	0.00	2.48	36.88
10	SLE R	Diff. long.	2.53	0.00	0.85	-6090.28	-31.33	0.00	2.75	41.07
8	SLE R	Diff. long.	2.53	0.00	0.85	-5553.90	-22.79	0.00	2.49	37.22
14	SLE Q	Diff. long.	2.53	0.00	0.85	-5444.55	-26.61	0.00	2.45	36.66
10	SLE R	Diff. long.	3.80	0.00	0.85	-4154.66	258.89	0.00	2.57	37.56
9	SLE R	Diff. long.	3.80	0.00	0.85	-3869.96	267.73	0.00	2.48	36.05
14	SLE Q	Diff. long.	3.80	0.00	0.85	-3674.28	233.80	0.00	2.29	33.41
10	SLE R	Loc.	0.00	0.60	0.85	-2183.22	0.00	-1.82	3.55	48.06
8	SLE R	Loc.	3.80	0.60	0.85	-1359.51	0.00	-19.59	2.83	36.26
14	SLE Q	Loc.	0.00	0.60	0.85	-1993.65	0.00	-1.76	3.25	43.92

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	0.85	SND	7879.60	0.00	7879.60	2.50	23927.50	51790.40	23927.50	3.037
1	Diff. tras.	0.00	0.00	0.85	SND	0.00	-895.76	895.76				9380.51	10.472

3	Diff. long.	1.27	0.00	0.85	SND	-8939.14	0.00	8939.14	2.50	23927.40	51790.30	23927.40	2.677
1	Diff. tras.	1.27	0.00	0.85	SND	0.00	114.52	114.52				9380.49	81.909
3	Diff. long.	2.53	0.00	0.85	SND	-8335.12	0.00	8335.12	2.50	23927.50	52057.00	23927.50	2.871
1	Diff. tras.	2.53	0.00	0.85	SND	0.00	198.03	198.03				9444.02	47.690
3	Diff. long.	3.80	0.00	0.85	SND	-4933.48	0.00	4933.48	2.50	23927.40	51913.10	23927.40	4.850
1	Diff. tras.	3.80	0.00	0.85	SND	0.00	1338.08	1338.08				9385.59	7.014

Parete n. 138

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	30.00	3.90	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
7	SLU	Diff. long.	0.00	0.00	2.70	-36845.00	-5861.03	0.00	-1510420.00	-254644.00	0.00	40.994
7	SLU	Diff. tras.	0.00	0.00	2.70	-36845.00	0.00	-508.27	-1510420.00	0.00	-26883.00	40.994
7	SLU	Diff. long.	1.27	0.00	2.70	-33797.40	-5571.90	0.00	-1510420.00	-251556.00	0.00	44.690
7	SLU	Diff. tras.	1.27	0.00	2.70	-33797.40	0.00	-253.32	-1510420.00	0.00	-26533.60	44.690
6	SLU	Diff. long.	2.53	0.00	2.70	-25927.00	-5894.79	0.00	-25927.00	-243550.00	0.00	41.316
7	SLU	Diff. tras.	2.53	0.00	2.70	-28204.70	0.00	38.30	-1510420.00	0.00	25891.30	53.552
7	SLU	Diff. long.	3.80	0.00	2.70	-22959.10	-15167.40	0.00	-22959.10	-240516.00	0.00	15.857
7	SLU	Diff. tras.	3.80	0.00	2.70	-22959.10	0.00	248.88	-1510420.00	0.00	25288.40	65.787

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
3	SND	Diff. long.	0.00	0.00	2.70	-10918.10	-128315.00	0.00	-10918.10	-147645.00	0.00	1.151
3	SND	Diff. long.	1.27	0.00	2.70	-9052.74	-87053.90	0.00	-9052.74	-145850.00	0.00	1.675
3	SND	Diff. long.	2.53	0.00	2.70	-9219.59	-45150.60	0.00	-9219.59	-146010.00	0.00	3.234
3	SND	Diff. long.	3.80	0.00	2.70	-8851.18	-16466.00	0.00	-8851.18	-145656.00	0.00	8.846

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	2.70	-27916.80	-4437.92	0.00	4.29	63.84
9	SLE R	Diff. long.	0.00	0.00	2.70	-26285.80	-4341.34	0.00	4.08	60.70
14	SLE Q	Diff. long.	0.00	0.00	2.70	-25132.60	-3835.81	0.00	3.82	56.89
10	SLE R	Diff. long.	1.27	0.00	2.70	-25572.10	-4215.97	0.00	3.97	59.03
9	SLE R	Diff. long.	1.27	0.00	2.70	-23939.00	-4184.77	0.00	3.77	56.12
14	SLE Q	Diff. long.	1.27	0.00	2.70	-22786.20	-3663.13	0.00	3.51	52.26
10	SLE R	Diff. long.	2.53	0.00	2.70	-21297.40	-4437.95	0.00	3.53	52.53
9	SLE R	Diff. long.	2.53	0.00	2.70	-19778.90	-4453.22	0.00	3.36	49.99
14	SLE Q	Diff. long.	2.53	0.00	2.70	-18694.80	-3876.06	0.00	3.10	46.04
10	SLE R	Diff. long.	3.80	0.00	2.70	-17294.70	-11436.20	0.00	5.03	74.06
9	SLE R	Diff. long.	3.80	0.00	2.70	-16014.20	-10957.40	0.00	4.80	70.59
14	SLE Q	Diff. long.	3.80	0.00	2.70	-14906.60	-9925.64	0.00	4.36	64.20

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	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>
14	SLE Q	Diff. long.	3.80	0.00	2.70	-14906.60	-9925.64	0.00	33.00	224.90	0.50	12.00	438.51	4.52	292.50	16.87	0.00	0.00
12	SLE F	Diff. long.	3.80	0.00	2.70	-15128.40	-10132.30	0.00	33.00	224.90	0.50	12.00	445.98	4.52	292.50	17.61	0.01	0.00

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctg0	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	2.70	SND	49376.30	0.00	49376.30	2.50	78509.20	205587.00	78509.20	1.590
1	Diff. tras.	0.00	0.00	2.70	SND	0.00	-2549.77	2549.77				36675.60	14.384
3	Diff. long.	1.27	0.00	2.70	SND	-51018.60	0.00	51018.60	2.50	78509.20	205302.00	78509.20	1.539
1	Diff. tras.	1.27	0.00	2.70	SND	0.00	2025.63	2025.63				36394.00	17.967
3	Diff. long.	2.53	0.00	2.70	SND	-50236.60	0.00	50236.60	2.50	78509.20	205327.00	78509.20	1.563
1	Diff. tras.	2.53	0.00	2.70	SND	0.00	1736.13	1736.13				36081.10	20.782
3	Diff. long.	3.80	0.00	2.70	SND	47543.00	0.00	47543.00	2.50	78509.20	205271.00	78509.20	1.651
1	Diff. tras.	3.80	0.00	2.70	SND	0.00	-1166.08	1166.08				35769.80	30.675

Parete n. 140

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLU	Diff. long.	0.00	0.00	2.00	-11687.40	2668.83	0.00	-11687.40	148818.00	0.00	55.762
7	SLU	Diff. tras.	0.00	0.00	2.00	-12135.50	0.00	205.59	-980436.00	0.00	16788.40	80.791
7	SLU	Diff. long.	1.27	0.00	2.00	-10458.70	1753.69	0.00	-10458.70	147935.00	0.00	84.356
7	SLU	Diff. tras.	1.27	0.00	2.00	-10458.70	0.00	-31.61	-980437.00	0.00	-16641.70	93.744
7	SLU	Diff. long.	2.53	0.00	2.00	-7569.24	218.30	0.00	-980436.00	145849.00	0.00	>100
7	SLU	Diff. tras.	2.53	0.00	2.00	-7569.24	0.00	-148.76	-7569.24	0.00	-16388.30	>100

7	SLU	Diff. long.	3.80	0.00	2.00	-6637.34	694.44	0.00	-980436.00	145175.00	0.00	>100
7	SLU	Diff. tras.	3.80	0.00	2.00	-6637.34	0.00	-153.21	-6637.34	0.00	-16306.90	>100
7	SLU	Loc.	3.80	0.00	0.25	-942.05	0.00	-0.09	-134356.00	0.00	-3054.85	>100

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	M'ydz <daNm>	M'ydy <daNm>	Sic.
3	SND	Diff. long.	0.00	0.00	2.00	15861.70	78811.20	0.00	15861.70	82487.90	0.00	1.047
3	SND	Diff. long.	1.27	0.00	2.00	8075.64	46153.00	0.00	8075.64	87981.80	0.00	1.906
3	SND	Diff. long.	2.53	0.00	2.00	1299.16	14625.80	0.00	1299.16	92710.40	0.00	6.339
3	SND	Diff. tras.	3.80	0.00	2.00	563.65	0.00	-963.97	563.65	0.00	-14519.20	15.062
3	SND	Loc.	0.00	0.00	0.25	22810.70	0.00	348.14	22810.70	0.00	928.33	2.667

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	2.00	-9318.83	1984.53	0.00	2.69	39.69
8	SLE R	Diff. long.	0.00	0.00	2.00	-9020.09	1982.65	0.00	2.63	38.88
14	SLE Q	Diff. long.	0.00	0.00	2.00	-9059.26	1778.44	0.00	2.54	37.47
10	SLE R	Diff. long.	1.27	0.00	2.00	-8024.04	1298.79	0.00	2.10	31.13
8	SLE R	Diff. long.	1.27	0.00	2.00	-7743.33	1249.96	0.00	2.03	30.02
14	SLE Q	Diff. long.	1.27	0.00	2.00	-7762.79	1118.84	0.00	1.96	29.09
10	SLE R	Diff. tras.	2.53	0.00	2.00	-5804.85	0.00	-111.42	1.50	20.17
14	SLE Q	Diff. tras.	2.53	0.00	2.00	-5615.78	0.00	-92.49	1.38	18.88
10	SLE R	Diff. tras.	3.80	0.00	2.00	-5082.20	0.00	-114.30	1.38	18.36
14	SLE Q	Diff. tras.	3.80	0.00	2.00	-4899.11	0.00	-91.46	1.25	16.92
10	SLE R	Loc.	2.53	0.00	0.25	-644.76	0.00	-10.98	1.36	16.46
8	SLE R	Loc.	0.00	0.00	0.25	-572.59	0.00	9.13	1.19	14.43
14	SLE Q	Loc.	2.53	0.00	0.25	-656.13	0.00	-9.03	1.32	16.09

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
3	Diff. long.	0.00	0.00	2.00	SND	29393.70	0.00	29393.70	2.50	57797.70	125102.00	57797.70	1.966
3	Diff. tras.	0.00	0.00	2.00	SND	0.00	2024.40	2024.40				23900.00	11.806
3	Diff. long.	1.27	0.00	2.00	SND	-30264.70	0.00	30264.70	2.50	57797.70	125102.00	57797.70	1.910
3	Diff. tras.	1.27	0.00	2.00	SND	0.00	-1624.31	1624.31				23900.00	14.714
3	Diff. long.	2.53	0.00	2.00	SND	-31236.30	0.00	31236.30	2.50	57797.70	125102.00	57797.70	1.850
3	Diff. tras.	2.53	0.00	2.00	SND	0.00	1624.22	1624.22				23900.00	14.715
3	Diff. long.	3.80	0.00	2.00	SND	-25782.30	0.00	25782.30	2.50	57797.70	125102.00	57797.70	2.242
3	Diff. tras.	3.80	0.00	2.00	SND	0.00	767.22	767.22				23900.00	31.152

Indici di sicurezza in analisi lineare

Le verifiche risultano tutte soddisfatte allo S.L.U. e allo S.L.V., per cui gli indici di sicurezza risultano superiori all'unità.

Fascicolo dei calcoli - edificio B - Fondazioni
Verifiche e armature travi

Simbologia

Δ_{sm} =Distanza media tra le fessure
Φ_{eq} =Diametro equivalente delle barre
ε_{sm} =Deformazione unitaria media dell'armatura (*1000)
σ_c =Tensione nel calcestruzzo
σ_f inf =Tensione nel ferro - inferiore
σ_f sup =Tensione nel ferro - superiore
σ_s =Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ =Area di calcestruzzo efficace
A_s =Area complessiva dei ferri nell'area di calcestruzzo efficace
AfE I =Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfE S =Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE St. =Area di ferro effettiva della staffatura (d'anima per travi a T o L)
AfE St. ala=Area di ferro effettiva della staffatura d'ala
AfEP I =Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, inferiore
AfEP S =Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, superiore
AfT St. ala=Area di ferro teorica della staffatura d'ala
B =Base
CC =Combinazione delle condizioni di carico elementari
c = momento fittizio in campata
a = momento fittizio agli appoggi
T = momento traslato per taglio
e = eccentricità aggiuntiva in caso di compressione o pressoflessione
TG = taglio da gerarchia delle resistenze
TGND = taglio non dissipativo limitante la gerarchia
TG (Li) = taglio da gerarchia delle resistenze, limite inferiore
TG (Ls) = taglio da gerarchia delle resistenze, limite superiore
Caso =Caso di verifica
Cf inf =Copriferro inferiore
Cf sup =Copriferro superiore
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
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
K_2 =Coefficiente per distribuzione deformazioni
Lung. =Lunghezza del tratto di progettazione
M'ydy =Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
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
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tipo =Tipologia
2Cdx = Doppia C lato costola
L = Sezione a L
R = Rettangolare
T = Sezione a T
Cs = C stondata
Is = I stondata
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. 501

Nodi: 44 -79 -80 -81 -82 45

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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.
1.52	7	SLU	5	0.00	8.04	6.16	8.04	6.16	-6481.53	-26902.60	4.151
2.80	7	SLU	5	127.86	8.04	6.16	8.04	6.16	-8586.50	-26902.60	3.133
6.00	7	SLU	5	447.50	8.04	6.16	8.04	6.16	-4107.70	-26902.60	6.549

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
1.52	1	SLV(E)	5	0.00	8.04	6.16	8.04	6.16	-4851.63	-25648.40	5.287
2.80	1	SLV(E)	5	127.86	8.04	6.16	8.04	6.16	-6533.70	-25648.40	3.926
6.00	1	SLV(E)	5	447.50	8.04	6.16	8.04	6.16	-3160.75	-25648.40	8.115

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>
1.52	10	SLE R	5	0.00	8.04	6.16	-4909.43	845.34	-89.24	9.51
1.52	14	SLE Q	5	0.00	8.04	6.16	-4410.57	759.44	-80.17	8.54
2.80	10	SLE R	5	127.86	8.04	6.16	-6516.59	1122.07	-118.45	12.62
2.80	14	SLE Q	5	127.86	8.04	6.16	-5939.73	1022.75	-107.96	11.50
6.00	10	SLE R	5	447.50	8.04	6.16	-3121.50	537.48	-56.74	6.04
6.00	14	SLE Q	5	447.50	8.04	6.16	-2873.41	494.76	-52.23	5.56

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>
15	1.52	14	SLE Q	5	28	0.00	-4410.57	33.00	122.67	0.50	16.00	157.76	8.04	461.25	759.44	0.22	0.06
17	1.52	12	SLE F	5	28	0.00	-4449.15	33.00	122.67	0.50	16.00	157.76	8.04	461.25	766.09	0.22	0.06
33	2.80	14	SLE Q	5	28	127.86	-5939.73	33.00	122.67	0.50	16.00	157.76	8.04	461.25	1022.75	0.30	0.08
35	2.80	12	SLE F	5	28	127.86	-5984.72	33.00	122.67	0.50	16.00	157.76	8.04	461.25	1030.49	0.30	0.08
65	6.00	14	SLE Q	5	28	447.50	1546.14	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	352.08	0.10	0.09
69	6.00	12	SLE F	5	28	447.50	1559.77	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	355.18	0.10	0.09

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.
7 SLU	1.52	2.33	0.80	ø8/20 2 br.	5.03	0.45	6068.32	2.50	32843.50	63958.80	32843.50	5.412
7 SLU	2.33	5.20	2.87	ø8/20 2 br.	5.03	0.45	5499.92	2.50	32843.50	63958.80	32843.50	5.972
7 SLU	5.20	6.00	0.80	ø8/20 2 br.	5.03	0.45	8901.62	2.50	32843.50	63958.80	32843.50	3.690

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	1.52	2.33	0.80	ø8/20 2 br.	5.03	1.13
7 SLU	2.33	5.20	2.87	ø8/20 2 br.	5.03	1.13
7 SLU	5.20	6.00	0.80	ø8/20 2 br.	5.03	1.13

Travata n. 502

Nodi: 21 27 32 34 44

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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	7	SLU	1	390.00	6.16	4.52	6.16	4.52	-4523.16	-20834.00	4.606
1.27	7	SLU	1	263.33	6.16	4.52	6.16	4.52	-7237.64	-20834.00	2.879
3.80	7	SLU	1	10.00	6.16	4.52	6.16	4.52	-4925.39	-20834.00	4.230
4.00	7	SLU	2	207.50	6.16	4.52	6.16	4.52	1909.19	14917.10	7.813
5.92	7	SLU	2	15.00	6.16	4.52	6.16	4.52	7701.13	14917.10	1.937
6.22	7	SLU	3	202.50	6.16	4.52	6.16	4.52	7823.39	14917.10	1.907
8.15	7	SLU	3	10.00	6.16	4.52	6.16	4.52	2323.92	14917.10	6.419
8.35	7	SLU	4	380.00	6.16	4.52	6.16	4.52	-4080.00	-20834.00	5.106
9.62	7	SLU	4	253.33	6.16	4.52	6.16	4.52	-6563.56	-20834.00	3.174
12.15	7	SLU	4	0.00	6.16	4.52	6.16	4.52	-4497.32	-20834.00	4.633

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.00	1	SLV(E)	1	390.00	6.16	4.52	6.16	4.52	-3385.38	-19739.90	5.831
1.27	1	SLV(E)	1	263.33	6.16	4.52	6.16	4.52	-5474.55	-19739.90	3.606
3.80	1	SLV(E)	1	10.00	6.16	4.52	6.16	4.52	-3747.21	-19739.90	5.268
4.00	1	SLV(E)	2	207.50	6.16	4.52	6.16	4.52	1409.31	14323.80	10.164
5.92	1	SLV(E)	2	15.00	6.16	4.52	6.16	4.52	5778.51	14323.80	2.479
6.22	1	SLV(E)	3	202.50	6.16	4.52	6.16	4.52	5881.70	14323.80	2.435
8.15	1	SLV(E)	3	10.00	6.16	4.52	6.16	4.52	1703.72	14323.80	8.407
8.35	1	SLV(E)	4	380.00	6.16	4.52	6.16	4.52	-3179.99	-19739.90	6.208
9.62	1	SLV(E)	4	253.33	6.16	4.52	6.16	4.52	-5061.98	-19739.90	3.900
12.15	1	SLV(E)	4	0.00	6.16	4.52	6.16	4.52	-3468.58	-19739.90	5.691

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	10	SLE R	1	390.00	6.16	4.52	-3427.64	766.84	-65.71	7.55
0.00	14	SLE Q	1	390.00	6.16	4.52	-3077.61	688.53	-59.00	6.78
1.27	10	SLE R	1	263.33	6.16	4.52	-5490.74	1228.40	-105.26	12.09
1.27	14	SLE Q	1	263.33	6.16	4.52	-4976.86	1113.44	-95.41	10.96
3.80	10	SLE R	1	10.00	6.16	4.52	-3739.45	836.60	-71.69	8.24
3.80	14	SLE Q	1	10.00	6.16	4.52	-3406.55	762.12	-65.31	7.50
4.00	10	SLE R	2	207.50	6.16	4.52	1443.19	-59.03	444.67	5.85
4.00	14	SLE Q	2	207.50	6.16	4.52	1281.19	-52.41	394.76	5.20
5.92	10	SLE R	2	15.00	6.16	4.52	5834.89	-238.68	1797.84	23.66
5.92	14	SLE Q	2	15.00	6.16	4.52	5253.19	-214.88	1618.61	21.31
6.22	10	SLE R	3	202.50	6.16	4.52	5928.56	-242.51	1826.70	24.04
6.22	14	SLE Q	3	202.50	6.16	4.52	5347.00	-218.72	1647.51	21.69
8.15	10	SLE R	3	10.00	6.16	4.52	1755.91	-71.83	541.03	7.12
8.15	14	SLE Q	3	10.00	6.16	4.52	1548.84	-63.36	477.23	6.28
8.35	10	SLE R	4	380.00	6.16	4.52	-3104.97	694.65	-59.53	6.84
8.35	14	SLE Q	4	380.00	6.16	4.52	-2890.90	646.76	-55.42	6.37
9.62	10	SLE R	4	253.33	6.16	4.52	-4988.40	1116.02	-95.63	10.99
9.62	14	SLE Q	4	253.33	6.16	4.52	-4601.80	1029.53	-88.22	10.14
12.15	10	SLE R	4	0.00	6.16	4.52	-3417.51	764.57	-65.52	7.53
12.15	14	SLE Q	4	0.00	6.16	4.52	-3153.25	705.46	-60.45	6.95

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>
29	0.00	14	SLE Q	1	28	390.00	1140.15	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	351.30	0.10	0.09
33	0.00	12	SLE F	1	28	390.00	1145.53	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	352.96	0.10	0.09
51	1.27	14	SLE Q	1	28	263.33	-4976.86	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1113.44	0.32	0.10
53	1.27	12	SLE F	1	28	263.33	-5031.82	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1125.73	0.33	0.10
83	3.80	14	SLE Q	1	28	10.00	-3406.55	34.00	123.33	0.50	14.00	172.87	6.16	461.25	762.12	0.22	0.07
87	3.80	12	SLE F	1	28	10.00	-3452.46	34.00	123.33	0.50	14.00	172.87	6.16	461.25	772.39	0.22	0.07
105	4.00	14	SLE Q	2	28	207.50	1281.19	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	394.76	0.11	0.10
107	4.00	12	SLE F	2	28	207.50	1291.88	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	398.05	0.12	0.10
123	5.92	14	SLE Q	2	28	15.00	5253.19	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	1618.61	0.47	0.41
125	5.92	12	SLE F	2	28	15.00	5319.57	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	1639.06	0.48	0.41
141	6.22	14	SLE Q	3	28	202.50	5347.00	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	1647.51	0.48	0.41
143	6.22	12	SLE F	3	28	202.50	5412.71	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	1667.76	0.49	0.42
159	8.15	14	SLE Q	3	28	10.00	1548.84	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	477.23	0.14	0.12
161	8.15	12	SLE F	3	28	10.00	1565.42	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	482.34	0.14	0.12
191	8.35	14	SLE Q	4	28	380.00	848.31	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	261.38	0.08	0.07
197	8.35	13	SLE F	4	28	380.00	848.31	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	261.38	0.08	0.07
213	9.62	14	SLE Q	4	28	253.33	-4601.80	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1029.53	0.30	0.09
215	9.62	12	SLE F	4	28	253.33	-4636.80	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1037.36	0.30	0.09
245	12.15	14	SLE Q	4	28	0.00	-3153.25	34.00	123.33	0.50	14.00	172.87	6.16	461.25	705.46	0.21	0.06
249	12.15	12	SLE F	4	28	0.00	-3173.11	34.00	123.33	0.50	14.00	172.87	6.16	461.25	709.90	0.21	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	0.00	0.80	0.80	ø8/20 2 br.	5.03	0.45	8732.61	2.50	32843.50	63958.80	32843.50	3.761
7 SLU	0.80	3.00	2.20	ø8/20 2 br.	5.03	0.45	4883.99	2.50	32843.50	63958.80	32843.50	6.725
7 SLU	3.00	3.80	0.80	ø8/20 2 br.	5.03	0.45	7841.50	2.50	32843.50	63958.80	32843.50	4.188
7 SLU	4.00	5.92	1.93	ø8/20 2 br.	5.03	0.45	8052.70	2.50	32843.50	63958.80	32843.50	4.079
7 SLU	6.22	8.15	1.93	ø8/20 2 br.	5.03	0.45	7767.80	2.50	32843.50	63958.80	32843.50	4.228
7 SLU	8.35	9.15	0.80	ø8/20 2 br.	5.03	0.45	7684.08	2.50	32843.50	63958.80	32843.50	4.274
7 SLU	9.15	11.35	2.20	ø8/20 2 br.	5.03	0.45	4378.18	2.50	32843.50	63958.80	32843.50	7.502
7 SLU	11.35	12.15	0.80	ø8/20 2 br.	5.03	0.45	7304.46	2.50	32843.50	63958.80	32843.50	4.496

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	0.00	0.80	0.80	ø8/20 2 br.	5.03	1.21
7 SLU	0.80	3.00	2.20	ø8/20 2 br.	5.03	1.21
7 SLU	3.00	3.80	0.80	ø8/20 2 br.	5.03	1.21
7 SLU	4.00	5.92	1.93	ø8/20 2 br.	5.03	1.19
7 SLU	6.22	8.15	1.93	ø8/20 2 br.	5.03	1.19
7 SLU	8.35	9.15	0.80	ø8/20 2 br.	5.03	1.08
7 SLU	9.15	11.35	2.20	ø8/20 2 br.	5.03	1.08
7 SLU	11.35	12.15	0.80	ø8/20 2 br.	5.03	1.08

Travata n. 503

Nodi: 21 -33 -34 -35 -36 22 23

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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.
1.52	7	SLU	5	0.00	6.16	4.52	6.16	4.52	-5138.94	-20834.00	4.054
2.48	7	SLU	5	95.89	6.16	4.52	6.16	4.52	-6904.08	-20834.00	3.018

6.00	7	SLU	5	447.50	6.16	4.52	6.16	4.52	10231.90	14917.10	1.458
6.30	7	SLU	6	30.00	6.16	4.52	6.16	4.52	4924.43	14917.10	3.029
7.84	7	SLU	6	183.57	6.16	4.52	6.16	4.52	-11228.80	-20834.00	1.855
10.60	7	SLU	6	460.00	6.16	4.52	6.16	4.52	-6680.35	-20834.00	3.119

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
1.52	1	SLV(E)	5	0.00	6.16	4.52	6.16	4.52	-3796.61	-19739.90	5.199
2.48	1	SLV(E)	5	95.89	6.16	4.52	6.16	4.52	-5237.62	-19739.90	3.769
6.00	1	SLV(E)	5	447.50	6.16	4.52	6.16	4.52	7376.59	14323.80	1.942
6.30	1	SLV(E)	6	30.00	6.16	4.52	6.16	4.52	3367.84	14323.80	4.253
7.84	1	SLV(E)	6	183.57	6.16	4.52	6.16	4.52	-8759.00	-19739.90	2.254
10.60	1	SLV(E)	6	460.00	6.16	4.52	6.16	4.52	-5111.22	-19739.90	3.862

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
1.52	10	SLE R	5	0.00	6.16	4.52	-3883.48	868.82	-74.45	8.55
1.52	14	SLE Q	5	0.00	6.16	4.52	-3451.46	772.17	-66.17	7.60
2.48	10	SLE R	5	95.89	6.16	4.52	-5228.13	1169.65	-100.23	11.52
2.48	14	SLE Q	5	95.89	6.16	4.52	-4761.48	1065.25	-91.28	10.49
6.00	10	SLE R	5	447.50	6.16	4.52	7752.79	-317.13	2388.78	31.44
6.00	14	SLE Q	5	447.50	6.16	4.52	6705.99	-274.31	2066.24	27.20
6.30	10	SLE R	6	30.00	6.16	4.52	3737.35	-152.88	1151.55	15.16
6.30	14	SLE Q	6	30.00	6.16	4.52	3061.68	-125.24	943.36	12.42
7.84	10	SLE R	6	183.57	6.16	4.52	-8503.23	1902.37	-163.02	18.73
7.84	14	SLE Q	6	183.57	6.16	4.52	-7962.73	1781.44	-152.65	17.54
10.60	8	SLE R	6	460.00	6.16	4.52	2756.62	-112.76	849.37	11.18
10.60	10	SLE R	6	460.00	6.16	4.52	-5068.98	1134.05	-97.18	11.17
10.60	14	SLE Q	6	460.00	6.16	4.52	-4646.57	1039.54	-89.08	10.24

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
29	1.52	14	SLE Q	5	28	0.00	-3451.46	34.00	123.33	0.50	14.00	172.87	6.16	461.25	772.17	0.22	0.07
33	1.52	12	SLE F	5	28	0.00	-3488.73	34.00	123.33	0.50	14.00	172.87	6.16	461.25	780.51	0.23	0.07
51	2.48	14	SLE Q	5	28	95.89	-4761.48	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1065.25	0.31	0.09
53	2.48	12	SLE F	5	28	95.89	-4803.58	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1074.67	0.31	0.09
69	6.00	14	SLE Q	5	28	447.50	6705.99	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	2066.24	0.60	0.52
71	6.00	12	SLE F	5	28	447.50	6797.88	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	2094.56	0.61	0.52
102	6.30	14	SLE Q	6	28	30.00	3061.68	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	943.36	0.27	0.24
106	6.30	12	SLE F	6	28	30.00	3120.80	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	961.58	0.28	0.24
123	7.84	14	SLE Q	6	28	183.57	-7962.73	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1781.44	0.52	0.15
124	7.84	11	SLE F	6	28	183.57	-8018.55	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1793.93	0.52	0.15
155	10.60	14	SLE Q	6	28	460.00	2505.29	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	771.93	0.22	0.19
157	10.60	11	SLE F	6	28	460.00	2570.83	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	792.12	0.23	0.20

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.
7 SLU	1.52	2.33	0.80	ø8/20 2 br.	5.03	0.45	7382.41	2.50	32843.50	63958.80	32843.50	4.449
7 SLU	2.33	5.20	2.87	ø8/20 2 br.	5.03	0.45	8561.02	2.50	32843.50	63958.80	32843.50	3.836
7 SLU	5.20	6.00	0.80	ø8/20 2 br.	5.03	0.45	12596.40	2.50	32843.50	63958.80	32843.50	2.607
7 SLU	6.30	7.10	0.80	ø8/20 2 br.	5.03	0.45	12764.50	2.50	32843.50	63958.80	32843.50	2.573
7 SLU	7.10	9.80	2.70	ø8/20 2 br.	5.03	0.45	8524.56	2.50	32843.50	63958.80	32843.50	3.853
7 SLU	9.80	10.60	0.80	ø8/20 2 br.	5.03	0.45	14652.30	2.50	32843.50	63958.80	32843.50	2.242

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	1.52	2.33	0.80	ø8/20 2 br.	5.03	1.23
7 SLU	2.33	5.20	2.87	ø8/20 2 br.	5.03	1.23
7 SLU	5.20	6.00	0.80	ø8/20 2 br.	5.03	1.23
7 SLU	6.30	7.10	0.80	ø8/20 2 br.	5.03	2.01
7 SLU	7.10	9.80	2.70	ø8/20 2 br.	5.03	2.01
7 SLU	9.80	10.60	0.80	ø8/20 2 br.	5.03	2.01

Travata n. 504

Nodi: 22 -39 -43 -47 -48 -49 26 33 35 -72 -73 45

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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.
2.70	7	SLU	7	337.50	4.52	4.52	4.52	4.52	2044.25	14912.20	7.295
2.85	7	SLU	7	322.50	4.52	4.52	4.52	4.52	-2154.35	-15547.90	7.217
3.46	7	SLU	7	261.00	4.52	4.52	4.52	4.52	-2677.82	-15547.90	5.806
5.92	7	SLU	7	15.00	4.52	4.52	4.52	4.52	6801.80	14912.20	2.192
6.22	7	SLU	8	307.50	4.52	4.52	4.52	4.52	6871.78	14912.20	2.170
7.46	7	SLU	8	184.50	4.52	4.52	4.52	4.52	3343.01	14912.20	4.461

9.30	7	SLU	8	0.00	4.52	4.52	4.52	4.52	-2619.96	-15547.90	5.934
10.15	7	SLU	11	200.00	4.52	4.52	4.52	4.52	9207.08	14912.20	1.620
10.28	7	SLU	11	187.50	4.52	4.52	4.52	4.52	9207.08	14912.20	1.620
11.53	7	SLU	11	62.50	4.52	4.52	4.52	4.52	5549.82	14912.20	2.687
12.15	7	SLU	11	0.00	4.52	4.52	4.52	4.52	1473.83	14912.20	10.118

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
2.70	1	SLV(E)	7	337.50	4.52	4.52	4.52	4.52	1565.72	14311.20	9.140
2.85	1	SLV(E)	7	322.50	4.52	4.52	4.52	4.52	-1658.97	-14581.10	8.789
3.46	1	SLV(E)	7	261.00	4.52	4.52	4.52	4.52	-2092.73	-14581.10	6.968
5.92	1	SLV(E)	7	15.00	4.52	4.52	4.52	4.52	4844.46	14311.20	2.954
6.22	1	SLV(E)	8	307.50	4.52	4.52	4.52	4.52	4894.48	14311.20	2.924
7.46	1	SLV(E)	8	184.50	4.52	4.52	4.52	4.52	2314.84	14311.20	6.182
9.30	1	SLV(E)	8	0.00	4.52	4.52	4.52	4.52	-1775.84	-14581.10	8.211
10.15	1	SLV(E)	11	200.00	4.52	4.52	4.52	4.52	7077.23	14311.20	2.022
10.28	1	SLV(E)	11	187.50	4.52	4.52	4.52	4.52	7077.23	14311.20	2.022
11.53	1	SLV(E)	11	62.50	4.52	4.52	4.52	4.52	4275.73	14311.20	3.347
12.15	1	SLV(E)	11	0.00	4.52	4.52	4.52	4.52	1147.27	14311.20	12.474

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>
2.70	10	SLE R	7	337.50	4.52	4.52	1554.85	-66.20	479.66	6.49
2.70	14	SLE Q	7	337.50	4.52	4.52	1423.38	-60.60	439.10	5.94
2.85	10	SLE R	7	322.50	4.52	4.52	1554.85	-66.20	479.66	6.49
2.85	10	SLE R	7	322.50	4.52	4.52	-1635.51	495.23	-31.92	4.14
2.85	14	SLE Q	7	322.50	4.52	4.52	1423.38	-60.60	439.10	5.94
3.46	10	SLE R	7	261.00	4.52	4.52	1554.85	-66.20	479.66	6.49
3.46	10	SLE R	7	261.00	4.52	4.52	-2037.34	616.91	-39.77	5.15
3.46	14	SLE Q	7	261.00	4.52	4.52	1423.38	-60.60	439.10	5.94
5.92	10	SLE R	7	15.00	4.52	4.52	5121.18	-218.03	1579.85	21.38
5.92	14	SLE Q	7	15.00	4.52	4.52	4404.05	-187.50	1358.62	18.39
6.22	10	SLE R	8	307.50	4.52	4.52	5173.86	-220.27	1596.10	21.60
6.22	14	SLE Q	8	307.50	4.52	4.52	4449.52	-189.43	1372.65	18.58
7.46	10	SLE R	8	184.50	4.52	4.52	2508.67	-106.80	773.91	10.47
7.46	14	SLE Q	8	184.50	4.52	4.52	2104.40	-89.59	649.19	8.79
9.30	8	SLE R	8	0.00	4.52	4.52	1234.41	-52.55	380.81	5.15
9.30	10	SLE R	8	0.00	4.52	4.52	-1962.57	594.27	-38.31	4.96
9.30	14	SLE Q	8	0.00	4.52	4.52	1266.37	-53.91	390.67	5.29
10.15	10	SLE R	11	200.00	4.52	4.52	6997.40	-297.90	2158.65	29.21
10.15	14	SLE Q	11	200.00	4.52	4.52	6433.84	-273.91	1984.80	26.86
10.28	10	SLE R	11	187.50	4.52	4.52	6997.40	-297.90	2158.65	29.21
10.28	14	SLE Q	11	187.50	4.52	4.52	6433.84	-273.91	1984.80	26.86
11.53	10	SLE R	11	62.50	4.52	4.52	4219.20	-179.63	1301.60	17.61
11.53	14	SLE Q	11	62.50	4.52	4.52	3887.02	-165.49	1199.12	16.23
12.15	10	SLE R	11	0.00	4.52	4.52	1122.12	-47.77	346.17	4.68
12.15	14	SLE Q	11	0.00	4.52	4.52	1042.98	-44.40	321.75	4.35

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	2.70	14	SLE Q	7	28	337.50	1423.38	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	439.10	0.13	0.11
18	2.70	13	SLE F	7	28	337.50	1423.38	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	439.10	0.13	0.11
47	2.85	14	SLE Q	7	28	322.50	1423.38	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	439.10	0.13	0.11
53	2.85	13	SLE F	7	28	322.50	1423.38	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	439.10	0.13	0.11
83	3.46	14	SLE Q	7	28	261.00	1423.38	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	439.10	0.13	0.11
89	3.46	13	SLE F	7	28	261.00	1423.38	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	439.10	0.13	0.11
117	5.92	14	SLE Q	7	28	15.00	4404.05	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1358.62	0.40	0.34
121	5.92	12	SLE F	7	28	15.00	4472.46	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1379.72	0.40	0.34
149	6.22	14	SLE Q	8	28	307.50	4449.52	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1372.65	0.40	0.34
153	6.22	12	SLE F	8	28	307.50	4518.39	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1393.89	0.41	0.35
185	7.46	14	SLE Q	8	28	184.50	2104.40	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	649.19	0.19	0.16
189	7.46	12	SLE F	8	28	184.50	2145.86	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	661.98	0.19	0.17
222	9.30	14	SLE Q	8	28	0.00	1266.37	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	390.67	0.11	0.10
224	9.30	11	SLE F	8	28	0.00	1266.97	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	390.85	0.11	0.10
243	10.15	14	SLE Q	11	28	200.00	6433.84	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1984.80	0.58	0.50
245	10.15	12	SLE F	11	28	200.00	6474.49	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1997.34	0.58	0.50
261	10.28	14	SLE Q	11	28	187.50	6433.84	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1984.80	0.58	0.50
263	10.28	12	SLE F	11	28	187.50	6474.49	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1997.34	0.58	0.50
293	11.53	14	SLE Q	11	28	62.50	3887.02	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1199.12	0.35	0.30
297	11.53	12	SLE F	11	28	62.50	3910.19	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	1206.27	0.35	0.30
329	12.15	14	SLE Q	11	28	0.00	1042.98	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	321.75	0.09	0.08
333	12.15	12	SLE F	11	28	0.00	1047.43	35.00	374.00	0.50	12.00	503.95	4.52	1230.00	323.12	0.09	0.08

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	2.85	3.65	0.80	ø8/20 2 br.	5.03	0.45	7076.23	2.50	32843.50	63958.80	32843.50	4.641
7 SLU	3.65	5.12	1.47	ø8/20 2 br.	5.03	0.45	5681.98	2.50	32843.50	63958.80	32843.50	5.780
7 SLU	5.12	5.92	0.80	ø8/20 2 br.	5.03	0.45	10284.70	2.50	32843.50	63958.80	32843.50	3.193
7 SLU	6.22	7.03	0.80	ø8/20 2 br.	5.03	0.45	10466.20	2.50	32843.50	63958.80	32843.50	3.138
7 SLU	7.03	8.50	1.47	ø8/20 2 br.	5.03	0.45	5881.92	2.50	32843.50	63958.80	32843.50	5.584
7 SLU	8.50	9.30	0.80	ø8/20 2 br.	5.03	0.45	6705.84	2.50	32843.50	63958.80	32843.50	4.898
7 SLU	10.28	12.15	1.88	ø8/20 2 br.	5.03	0.45	10307.20	2.50	32843.50	63958.80	32843.50	3.186

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	2.85	3.65	0.80	ø8/20 2 br.	5.03	1.34
7 SLU	3.65	5.12	1.47	ø8/20 2 br.	5.03	1.34
7 SLU	5.12	5.92	0.80	ø8/20 2 br.	5.03	1.34
7 SLU	6.22	7.03	0.80	ø8/20 2 br.	5.03	1.34
7 SLU	7.03	8.50	1.47	ø8/20 2 br.	5.03	1.34
7 SLU	8.50	9.30	0.80	ø8/20 2 br.	5.03	1.34
7 SLU	10.28	12.15	1.88	ø8/20 2 br.	5.03	1.29

Travata n. 505

Nodi: 35 36

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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.
0.30	7	SLU	1	30.00	6.16	4.52	6.16	4.52	-2887.12	-20834.00	7.216
0.90	7	SLU	1	90.00	6.16	4.52	6.16	4.52	-3296.34	-20834.00	6.320
3.00	7	SLU	1	300.00	6.16	4.52	6.16	4.52	2046.79	14917.10	7.288

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.30	1	SLV(E)	1	30.00	6.16	4.52	6.16	4.52	-2172.88	-19739.90	9.085
0.90	1	SLV(E)	1	90.00	6.16	4.52	6.16	4.52	-2467.32	-19739.90	8.001
3.00	1	SLV(E)	1	300.00	6.16	4.52	6.16	4.52	1668.76	14323.80	8.584

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>
0.30	10	SLE R	1	30.00	6.16	4.52	-2187.96	489.50	-41.95	4.82
0.30	14	SLE Q	1	30.00	6.16	4.52	-1975.34	441.93	-37.87	4.35
0.90	10	SLE R	1	90.00	6.16	4.52	-2496.26	558.47	-47.86	5.50
0.90	14	SLE Q	1	90.00	6.16	4.52	-2243.02	501.81	-43.00	4.94
3.00	10	SLE R	1	300.00	6.16	4.52	1567.10	-64.10	482.85	6.36
3.00	14	SLE Q	1	300.00	6.16	4.52	1517.05	-62.06	467.43	6.15

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>
30	0.30	14	SLE Q	1	28	30.00	605.31	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	186.51	0.05	0.05
34	0.30	12	SLE F	1	28	30.00	610.79	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	188.20	0.05	0.05
66	0.90	14	SLE Q	1	28	90.00	605.31	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	186.51	0.05	0.05
70	0.90	12	SLE F	1	28	90.00	610.79	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	188.20	0.05	0.05
101	3.00	14	SLE Q	1	28	300.00	1517.05	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	467.43	0.14	0.12
105	3.00	12	SLE F	1	28	300.00	1521.14	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	468.69	0.14	0.12

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	0.30	1.10	0.80	ø8/20 2 br.	5.03	0.45	6353.91	2.50	32843.50	63958.80	32843.50	5.169
7 SLU	1.10	2.20	1.10	ø8/20 2 br.	5.03	0.45	3143.02	2.50	32843.50	63958.80	32843.50	10.450
7 SLU	2.20	3.00	0.80	ø8/20 2 br.	5.03	0.45	6850.46	2.50	32843.50	63958.80	32843.50	4.794

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	0.30	1.10	0.80	ø8/20 2 br.	5.03	1.29
7 SLU	1.10	2.20	1.10	ø8/20 2 br.	5.03	1.29
7 SLU	2.20	3.00	0.80	ø8/20 2 br.	5.03	1.29

Travata n. 506

Nodi: -50 36 37

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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	7	SLU	1	515.00	10.05	8.04	10.05	8.04	5708.75	26066.90	4.566
2.12	7	SLU	1	302.94	10.05	8.04	10.05	8.04	-13726.20	-33340.70	2.429
5.15	7	SLU	1	0.00	10.05	8.04	10.05	8.04	-8395.72	-33340.70	3.971
5.45	7	SLU	2	55.00	10.05	8.04	10.05	8.04	-1347.88	-33340.70	24.736
6.00	7	SLU	2	0.00	10.05	8.04	10.05	8.04	-1347.88	-33340.70	24.736

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.00	1	SLV(E)	1	515.00	10.05	8.04	10.05	8.04	4333.56	25160.00	5.806
2.12	1	SLV(E)	1	302.94	10.05	8.04	10.05	8.04	-10520.50	-31912.00	3.033
5.15	1	SLV(E)	1	0.00	10.05	8.04	10.05	8.04	-6434.91	-31912.00	4.959
5.45	1	SLV(E)	2	55.00	10.05	8.04	10.05	8.04	-1029.38	-31912.00	31.001
6.00	1	SLV(E)	2	0.00	10.05	8.04	10.05	8.04	-1029.38	-31912.00	31.001

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	10	SLE R	1	515.00	10.05	8.04	4316.54	-145.27	756.50	13.12
0.00	14	SLE Q	1	515.00	10.05	8.04	3939.60	-132.58	690.44	11.97
2.12	10	SLE R	1	302.94	10.05	8.04	-10401.50	1439.37	-178.58	18.06
2.12	14	SLE Q	1	302.94	10.05	8.04	-9564.09	1323.49	-164.21	16.61
5.15	10	SLE R	1	0.00	10.05	8.04	-6359.56	880.04	-109.19	11.04
5.15	14	SLE Q	1	0.00	10.05	8.04	-5849.92	809.52	-100.44	10.16
5.45	10	SLE R	2	55.00	10.05	8.04	-1016.47	140.66	-17.45	1.77
5.45	14	SLE Q	2	55.00	10.05	8.04	-935.80	129.50	-16.07	1.63
6.00	10	SLE R	2	0.00	10.05	8.04	-1016.47	140.66	-17.45	1.77
6.00	14	SLE Q	2	0.00	10.05	8.04	-935.80	129.50	-16.07	1.63

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/cmq>	ε_{sm}	Wk <mm>
29	0.00	14	SLE Q	1	28	515.00	3939.60	33.00	372.67	0.50	16.00	482.50	8.04	1230.00	690.44	0.20	0.16
33	0.00	12	SLE F	1	28	515.00	3971.73	33.00	372.67	0.50	16.00	482.50	8.04	1230.00	696.07	0.20	0.17
51	2.12	14	SLE Q	1	28	302.94	-9564.09	33.00	92.00	0.50	16.00	139.41	10.05	461.25	1323.49	0.41	0.10
53	2.12	12	SLE F	1	28	302.94	-9636.12	33.00	92.00	0.50	16.00	139.41	10.05	461.25	1333.46	0.39	0.09
69	5.15	14	SLE Q	1	28	0.00	-5849.92	33.00	92.00	0.50	16.00	139.41	10.05	461.25	809.52	0.24	0.06
71	5.15	12	SLE F	1	28	0.00	-5895.82	33.00	92.00	0.50	16.00	139.41	10.05	461.25	815.87	0.24	0.06
101	5.45	14	SLE Q	2	28	55.00	-935.80	33.00	92.00	0.50	16.00	139.41	10.05	461.25	129.50	0.04	0.01
105	5.45	12	SLE F	2	28	55.00	-946.36	33.00	92.00	0.50	16.00	139.41	10.05	461.25	130.96	0.04	0.01
137	6.00	14	SLE Q	2	28	0.00	-935.80	33.00	92.00	0.50	16.00	139.41	10.05	461.25	129.50	0.04	0.01
141	6.00	12	SLE F	2	28	0.00	-946.36	33.00	92.00	0.50	16.00	139.41	10.05	461.25	130.96	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.
7 SLU	0.00	0.80	0.80	ø8/20 2 br.	5.03	0.45	15296.90	2.50	32843.50	63958.80	32843.50	2.147
7 SLU	0.80	4.35	3.55	ø8/20 2 br.	5.03	0.45	9544.13	2.50	32843.50	63958.80	32843.50	3.441
7 SLU	4.35	5.15	0.80	ø8/20 2 br.	5.03	0.45	9725.17	2.50	32843.50	63958.80	32843.50	3.377
7 SLU	5.45	6.00	0.55	ø8/20 2 br.	5.03	0.45	3939.38	2.50	32843.50	63958.80	32843.50	8.337

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	0.00	0.80	0.80	ø8/20 2 br.	5.03	1.73
7 SLU	0.80	4.35	3.55	ø8/20 2 br.	5.03	1.73
7 SLU	4.35	5.15	0.80	ø8/20 2 br.	5.03	1.73
7 SLU	5.45	6.00	0.55	ø8/20 2 br.	5.03	1.24

Travata n. 507

Nodi: 1 13 14 -21 -22 -23 -24 -30 23 -40 -44 -54

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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	7	SLU	1	0.00	6.16	6.16	6.16	6.16	-5666.07	-20881.80	3.685
1.59	7	SLU	1	158.54	6.16	6.16	6.16	6.16	-9233.88	-20881.80	2.261
4.78	7	SLU	2	97.00	6.16	6.16	6.16	6.16	7104.86	20099.70	2.829
5.08	7	SLU	3	15.00	6.16	6.16	6.16	6.16	6353.51	20099.70	3.164
6.45	5	SLU	6	38.12	6.16	6.16	6.16	6.16	11596.50	20099.70	1.733
8.45	5	SLU	11	0.00	6.16	6.16	6.16	6.16	7048.28	20099.70	2.852
9.40	7	SLU	11	95.00	6.16	6.16	6.16	6.16	-7128.79	-20881.80	2.929
11.30	7	SLU	11	285.00	6.16	6.16	6.16	6.16	-6815.60	-20881.80	3.064

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.00	1	SLV(E)	1	0.00	6.16	6.16	6.16	6.16	-4457.37	-19741.70	4.429
1.59	1	SLV(E)	1	158.54	6.16	6.16	6.16	6.16	-7223.79	-19741.70	2.733
4.78	1	SLV(E)	2	97.00	6.16	6.16	6.16	6.16	5676.86	19346.70	3.408
5.08	1	SLV(E)	3	15.00	6.16	6.16	6.16	6.16	5057.02	19346.70	3.826
6.45	1	SLV(E)	6	38.12	6.16	6.16	6.16	6.16	8981.03	19346.70	2.154
8.45	1	SLV(E)	11	0.00	6.16	6.16	6.16	6.16	5307.97	19346.70	3.645
9.40	1	SLV(E)	11	95.00	6.16	6.16	6.16	6.16	-5531.56	-19741.70	3.569
11.30	1	SLV(E)	11	285.00	6.16	6.16	6.16	6.16	-5308.82	-19741.70	3.719

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	10	SLE R	1	0.00	6.16	6.16	-4299.71	961.76	-80.79	9.36
0.00	14	SLE Q	1	0.00	6.16	6.16	-4052.15	906.39	-76.14	8.82
1.59	10	SLE R	1	158.54	6.16	6.16	-6994.02	1564.43	-131.42	15.22
1.59	14	SLE Q	1	158.54	6.16	6.16	-6567.08	1468.93	-123.40	14.29
4.78	10	SLE R	2	97.00	6.16	6.16	5424.31	-209.01	1237.30	19.44
4.78	14	SLE Q	2	97.00	6.16	6.16	5160.78	-198.85	1177.19	18.50
5.08	10	SLE R	3	15.00	6.16	6.16	4856.02	-187.11	1107.67	17.40
5.08	14	SLE Q	3	15.00	6.16	6.16	4597.29	-177.14	1048.66	16.48
6.45	8	SLE R	6	38.12	6.16	6.16	8723.45	-336.13	1989.84	31.26
6.45	14	SLE Q	6	38.12	6.16	6.16	8164.57	-314.60	1862.36	29.26
8.45	8	SLE R	11	0.00	6.16	6.16	5261.05	-202.72	1200.06	18.85
8.45	14	SLE Q	11	0.00	6.16	6.16	4825.43	-185.93	1100.70	17.29
9.40	8	SLE R	11	95.00	6.16	6.16	4180.78	-161.09	953.65	14.98
9.40	10	SLE R	11	95.00	6.16	6.16	-5394.30	1206.60	-101.36	11.74
9.40	14	SLE Q	11	95.00	6.16	6.16	3804.44	-146.59	867.80	13.63
11.30	10	SLE R	11	285.00	6.16	6.16	-5152.00	1152.40	-96.81	11.21
11.30	14	SLE Q	11	285.00	6.16	6.16	-4826.20	1079.53	-90.69	10.50

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	0.00	14	SLE Q	1	28	0.00	-4052.15	34.00	123.33	0.50	14.00	172.87	6.16	461.25	906.39	0.26	0.08
16	0.00	11	SLE F	1	28	0.00	-4074.60	34.00	123.33	0.50	14.00	172.87	6.16	461.25	911.41	0.27	0.08
33	1.59	14	SLE Q	1	28	158.54	-6567.08	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1468.93	0.43	0.13
34	1.59	11	SLE F	1	28	158.54	-6613.93	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1479.41	0.43	0.13
65	4.78	14	SLE Q	2	28	97.00	5160.78	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	1177.19	0.34	0.29
69	4.78	12	SLE F	2	28	97.00	5184.21	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	1182.53	0.34	0.29
87	5.08	14	SLE Q	3	28	15.00	4597.29	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	1048.66	0.31	0.26
89	5.08	12	SLE F	3	28	15.00	4619.45	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	1053.71	0.31	0.26
105	6.45	14	SLE Q	6	28	38.12	8164.57	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	1862.36	0.54	0.45
106	6.45	11	SLE F	6	28	38.12	8284.76	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	1889.78	0.55	0.46
138	8.45	14	SLE Q	11	28	0.00	4825.43	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	1100.70	0.32	0.27
140	8.45	11	SLE F	11	28	0.00	4926.92	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	1123.85	0.33	0.27
174	9.40	14	SLE Q	11	28	95.00	3804.44	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	867.80	0.25	0.21
176	9.40	11	SLE F	11	28	95.00	3894.23	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	888.28	0.26	0.22
195	11.30	14	SLE Q	11	28	285.00	-4826.20	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1079.53	0.31	0.09
196	11.30	11	SLE F	11	28	285.00	-4870.23	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1089.38	0.32	0.09

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.
7 SLU	0.00	0.80	0.80	ø8/20 2 br.	5.03	0.45	7269.75	2.50	32843.50	63958.80	32843.50	4.518
7 SLU	0.80	3.97	3.17	ø8/20 2 br.	5.03	0.45	8356.33	2.50	32843.50	63958.80	32843.50	3.930
7 SLU	3.97	4.78	0.80	ø8/20 2 br.	5.03	0.45	13600.80	2.50	32843.50	63958.80	32843.50	2.415
5 SLU	5.08	6.45	1.38	ø8/20 2 br.	5.03	0.45	9943.15	2.50	32843.50	63958.80	32843.50	3.303
7 SLU	8.45	9.25	0.80	ø8/20 2 br.	5.03	0.45	15359.50	2.50	32843.50	63958.80	32843.50	2.138
5 SLU	9.25	10.50	1.25	ø8/20 2 br.	5.03	0.45	8194.27	2.50	32843.50	63958.80	32843.50	4.008
7 SLU	10.50	11.30	0.80	ø8/20 2 br.	5.03	0.45	9415.11	2.50	32843.50	63958.80	32843.50	3.488

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	0.00	0.80	0.80	ø8/20 2 br.	5.03	1.32
7 SLU	0.80	3.97	3.17	ø8/20 2 br.	5.03	1.63
7 SLU	3.97	4.78	0.80	ø8/20 2 br.	5.03	1.63
7 SLU	5.08	6.45	1.38	ø8/20 2 br.	5.03	1.94
7 SLU	8.45	9.25	0.80	ø8/20 2 br.	5.03	1.98
7 SLU	9.25	10.50	1.25	ø8/20 2 br.	5.03	1.98
7 SLU	10.50	11.30	0.80	ø8/20 2 br.	5.03	1.98

Travata n. 508

Nodi: 1 2 3 4 5 6 7 8 9 10

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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	5	SLU	1	0.00	6.16	6.16	6.16	6.16	-200.90	-20881.80	>100
0.38	5	SLU	1	38.33	6.16	6.16	6.16	6.16	-200.90	-20881.80	>100
1.15	5	SLU	1	115.00	6.16	6.16	6.16	6.16	-200.90	-20881.80	>100
1.15	5	SLU	2	0.00	6.16	6.16	6.16	6.16	-123.06	-20881.80	>100
2.05	5	SLU	2	90.00	6.16	6.16	6.16	6.16	-123.06	-20881.80	>100
2.25	5	SLU	3	10.00	6.16	6.16	6.16	6.16	-123.06	-20881.80	>100
3.15	5	SLU	3	100.00	6.16	6.16	6.16	6.16	-123.06	-20881.80	>100
3.15	5	SLU	4	0.00	6.16	6.16	6.16	6.16	-319.28	-20881.80	65.402
3.88	5	SLU	4	72.50	6.16	6.16	6.16	6.16	-319.29	-20881.80	65.402
4.60	5	SLU	4	145.00	6.16	6.16	6.16	6.16	-319.29	-20881.80	65.402
4.90	5	SLU	5	15.00	6.16	6.16	6.16	6.16	-319.28	-20881.80	65.402

5.62	5	SLU	5	87.50	6.16	6.16	6.16	6.16	-319.29	-20881.80	65.402
6.35	5	SLU	5	160.00	6.16	6.16	6.16	6.16	-319.29	-20881.80	65.402
6.35	5	SLU	6	0.00	6.16	6.16	6.16	6.16	-123.06	-20881.80	>100
7.25	5	SLU	6	90.00	6.16	6.16	6.16	6.16	-123.06	-20881.80	>100
7.45	5	SLU	7	10.00	6.16	6.16	6.16	6.16	-97.24	-20881.80	>100
8.25	5	SLU	7	90.00	6.16	6.16	6.16	6.16	-97.24	-20881.80	>100
8.45	5	SLU	8	10.00	6.16	6.16	6.16	6.16	-123.06	-20881.80	>100
9.35	5	SLU	8	100.00	6.16	6.16	6.16	6.16	-123.06	-20881.80	>100
9.35	5	SLU	9	0.00	6.16	6.16	6.16	6.16	-137.11	-20881.80	>100
9.67	5	SLU	9	31.67	6.16	6.16	6.16	6.16	-137.11	-20881.80	>100
10.30	5	SLU	9	95.00	6.16	6.16	6.16	6.16	-137.11	-20881.80	>100

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.00	1	SLV(E)	1	0.00	6.16	6.16	6.16	6.16	-169.99	-19741.70	>100
0.38	1	SLV(E)	1	38.33	6.16	6.16	6.16	6.16	-169.99	-19741.70	>100
1.15	1	SLV(E)	1	115.00	6.16	6.16	6.16	6.16	-169.99	-19741.70	>100
1.15	1	SLV(E)	2	0.00	6.16	6.16	6.16	6.16	-104.13	-19741.70	>100
2.05	1	SLV(E)	2	90.00	6.16	6.16	6.16	6.16	-104.13	-19741.70	>100
2.25	1	SLV(E)	3	10.00	6.16	6.16	6.16	6.16	-104.13	-19741.70	>100
3.15	1	SLV(E)	3	100.00	6.16	6.16	6.16	6.16	-104.13	-19741.70	>100
3.15	1	SLV(E)	4	0.00	6.16	6.16	6.16	6.16	-270.16	-19741.70	73.073
3.88	1	SLV(E)	4	72.50	6.16	6.16	6.16	6.16	-270.16	-19741.70	73.073
4.60	1	SLV(E)	4	145.00	6.16	6.16	6.16	6.16	-270.16	-19741.70	73.073
4.90	1	SLV(E)	5	15.00	6.16	6.16	6.16	6.16	-270.16	-19741.70	73.073
5.62	1	SLV(E)	5	87.50	6.16	6.16	6.16	6.16	-270.16	-19741.70	73.073
6.35	1	SLV(E)	5	160.00	6.16	6.16	6.16	6.16	-270.16	-19741.70	73.073
6.35	1	SLV(E)	6	0.00	6.16	6.16	6.16	6.16	-104.13	-19741.70	>100
7.25	1	SLV(E)	6	90.00	6.16	6.16	6.16	6.16	-104.13	-19741.70	>100
7.45	1	SLV(E)	7	10.00	6.16	6.16	6.16	6.16	-82.28	-19741.70	>100
8.25	1	SLV(E)	7	90.00	6.16	6.16	6.16	6.16	-82.28	-19741.70	>100
8.45	1	SLV(E)	8	10.00	6.16	6.16	6.16	6.16	-104.13	-19741.70	>100
9.35	1	SLV(E)	8	100.00	6.16	6.16	6.16	6.16	-104.13	-19741.70	>100
9.35	1	SLV(E)	9	0.00	6.16	6.16	6.16	6.16	-116.02	-19741.70	>100
9.67	1	SLV(E)	9	31.67	6.16	6.16	6.16	6.16	-116.02	-19741.70	>100
10.30	1	SLV(E)	9	95.00	6.16	6.16	6.16	6.16	-116.02	-19741.70	>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/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.00	8	SLE R	1	0.00	6.16	6.16	-154.54	34.57	-2.90	0.34
0.00	14	SLE Q	1	0.00	6.16	6.16	-154.54	34.57	-2.90	0.34
0.38	8	SLE R	1	38.33	6.16	6.16	-154.54	34.57	-2.90	0.34
0.38	14	SLE Q	1	38.33	6.16	6.16	-154.54	34.57	-2.90	0.34
1.15	8	SLE R	1	115.00	6.16	6.16	-154.54	34.57	-2.90	0.34
1.15	14	SLE Q	1	115.00	6.16	6.16	-154.54	34.57	-2.90	0.34
1.15	8	SLE R	2	0.00	6.16	6.16	-94.66	21.17	-1.78	0.21
1.15	14	SLE Q	2	0.00	6.16	6.16	-94.66	21.17	-1.78	0.21
2.05	8	SLE R	2	90.00	6.16	6.16	-94.66	21.17	-1.78	0.21
2.05	14	SLE Q	2	90.00	6.16	6.16	-94.66	21.17	-1.78	0.21
2.25	8	SLE R	3	10.00	6.16	6.16	-94.66	21.17	-1.78	0.21
2.25	14	SLE Q	3	10.00	6.16	6.16	-94.66	21.17	-1.78	0.21
3.15	8	SLE R	3	100.00	6.16	6.16	-94.66	21.17	-1.78	0.21
3.15	14	SLE Q	3	100.00	6.16	6.16	-94.66	21.17	-1.78	0.21
3.15	8	SLE R	4	0.00	6.16	6.16	-245.60	54.94	-4.62	0.53
3.15	14	SLE Q	4	0.00	6.16	6.16	-245.60	54.94	-4.62	0.53
3.88	8	SLE R	4	72.50	6.16	6.16	-245.60	54.94	-4.62	0.53
3.88	14	SLE Q	4	72.50	6.16	6.16	-245.60	54.94	-4.62	0.53
4.60	8	SLE R	4	145.00	6.16	6.16	-245.60	54.94	-4.62	0.53
4.60	14	SLE Q	4	145.00	6.16	6.16	-245.60	54.94	-4.62	0.53
4.90	8	SLE R	5	15.00	6.16	6.16	-245.60	54.94	-4.62	0.53
4.90	14	SLE Q	5	15.00	6.16	6.16	-245.60	54.94	-4.62	0.53
5.62	8	SLE R	5	87.50	6.16	6.16	-245.60	54.94	-4.62	0.53
5.62	14	SLE Q	5	87.50	6.16	6.16	-245.60	54.94	-4.62	0.53
6.35	8	SLE R	5	160.00	6.16	6.16	-245.60	54.94	-4.62	0.53
6.35	14	SLE Q	5	160.00	6.16	6.16	-245.60	54.94	-4.62	0.53
6.35	8	SLE R	6	0.00	6.16	6.16	-94.66	21.17	-1.78	0.21
6.35	14	SLE Q	6	0.00	6.16	6.16	-94.66	21.17	-1.78	0.21
7.25	8	SLE R	6	90.00	6.16	6.16	-94.66	21.17	-1.78	0.21
7.25	14	SLE Q	6	90.00	6.16	6.16	-94.66	21.17	-1.78	0.21
7.45	8	SLE R	7	10.00	6.16	6.16	-74.80	16.73	-1.41	0.16
7.45	14	SLE Q	7	10.00	6.16	6.16	-74.80	16.73	-1.41	0.16
8.25	8	SLE R	7	90.00	6.16	6.16	-74.80	16.73	-1.41	0.16
8.25	14	SLE Q	7	90.00	6.16	6.16	-74.80	16.73	-1.41	0.16
8.45	8	SLE R	8	10.00	6.16	6.16	-94.66	21.17	-1.78	0.21
8.45	14	SLE Q	8	10.00	6.16	6.16	-94.66	21.17	-1.78	0.21
9.35	8	SLE R	8	100.00	6.16	6.16	-94.66	21.17	-1.78	0.21
9.35	14	SLE Q	8	100.00	6.16	6.16	-94.66	21.17	-1.78	0.21
9.35	8	SLE R	9	0.00	6.16	6.16	-105.47	23.59	-1.98	0.23
9.35	14	SLE Q	9	0.00	6.16	6.16	-105.47	23.59	-1.98	0.23
9.67	8	SLE R	9	31.67	6.16	6.16	-105.47	23.59	-1.98	0.23
9.67	14	SLE Q	9	31.67	6.16	6.16	-105.47	23.59	-1.98	0.23
10.30	8	SLE R	9	95.00	6.16	6.16	-105.47	23.59	-1.98	0.23
10.30	14	SLE Q	9	95.00	6.16	6.16	-105.47	23.59	-1.98	0.23

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}	Wk <mm>
29	0.00	14	SLE Q	1	28	0.00	70.24	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	16.02	0.00	0.00
31	0.00	11	SLE F	1	28	0.00	70.24	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	16.02	0.00	0.00
51	0.38	14	SLE Q	1	28	38.33	-154.54	34.00	123.33	0.50	14.00	172.87	6.16	461.25	34.57	0.01	0.00
52	0.38	11	SLE F	1	28	38.33	-154.54	34.00	123.33	0.50	14.00	172.87	6.16	461.25	34.57	0.01	0.00
84	1.15	14	SLE Q	1	28	115.00	70.24	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	16.02	0.00	0.00
86	1.15	11	SLE F	1	28	115.00	70.24	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	16.02	0.00	0.00
105	1.15	14	SLE Q	2	28	0.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
106	1.15	11	SLE F	2	28	0.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
123	2.05	14	SLE Q	2	28	90.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
124	2.05	11	SLE F	2	28	90.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
141	2.25	14	SLE Q	3	28	10.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
142	2.25	11	SLE F	3	28	10.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
159	3.15	14	SLE Q	3	28	100.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
160	3.15	11	SLE F	3	28	100.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
191	3.15	14	SLE Q	4	28	0.00	111.63	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	25.46	0.01	0.01
193	3.15	11	SLE F	4	28	0.00	111.63	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	25.46	0.01	0.01
213	3.88	14	SLE Q	4	28	72.50	-245.60	34.00	123.33	0.50	14.00	172.87	6.16	461.25	54.94	0.02	0.00
214	3.88	11	SLE F	4	28	72.50	-245.60	34.00	123.33	0.50	14.00	172.87	6.16	461.25	54.94	0.02	0.00
246	4.60	14	SLE Q	4	28	145.00	111.63	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	25.46	0.01	0.01
248	4.60	11	SLE F	4	28	145.00	111.63	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	25.46	0.01	0.01
281	4.90	14	SLE Q	5	28	15.00	111.63	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	25.46	0.01	0.01
283	4.90	11	SLE F	5	28	15.00	111.63	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	25.46	0.01	0.01
303	5.62	14	SLE Q	5	28	87.50	-245.60	34.00	123.33	0.50	14.00	172.87	6.16	461.25	54.94	0.02	0.00
304	5.62	11	SLE F	5	28	87.50	-245.60	34.00	123.33	0.50	14.00	172.87	6.16	461.25	54.94	0.02	0.00
336	6.35	14	SLE Q	5	28	160.00	111.63	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	25.46	0.01	0.01
338	6.35	11	SLE F	5	28	160.00	111.63	34.00	373.33	0.50	14.00	491.43	6.16	1230.00	25.46	0.01	0.01
357	6.35	14	SLE Q	6	28	0.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
358	6.35	11	SLE F	6	28	0.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
375	7.25	14	SLE Q	6	28	90.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
376	7.25	11	SLE F	6	28	90.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
393	7.45	14	SLE Q	7	28	10.00	-74.80	34.00	123.33	0.50	14.00	172.87	6.16	461.25	16.73	0.00	0.00
394	7.45	11	SLE F	7	28	10.00	-74.80	34.00	123.33	0.50	14.00	172.87	6.16	461.25	16.73	0.00	0.00
411	8.25	14	SLE Q	7	28	90.00	-74.80	34.00	123.33	0.50	14.00	172.87	6.16	461.25	16.73	0.00	0.00
412	8.25	11	SLE F	7	28	90.00	-74.80	34.00	123.33	0.50	14.00	172.87	6.16	461.25	16.73	0.00	0.00
429	8.45	14	SLE Q	8	28	10.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
430	8.45	11	SLE F	8	28	10.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
447	9.35	14	SLE Q	8	28	100.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
448	9.35	11	SLE F	8	28	100.00	-94.66	34.00	123.33	0.50	14.00	172.87	6.16	461.25	21.17	0.01	0.00
465	9.35	14	SLE Q	9	28	0.00	-105.47	34.00	123.33	0.50	14.00	172.87	6.16	461.25	23.59	0.01	0.00
466	9.35	11	SLE F	9	28	0.00	-105.47	34.00	123.33	0.50	14.00	172.87	6.16	461.25	23.59	0.01	0.00
483	9.67	14	SLE Q	9	28	31.67	-105.47	34.00	123.33	0.50	14.00	172.87	6.16	461.25	23.59	0.01	0.00
484	9.67	11	SLE F	9	28	31.67	-105.47	34.00	123.33	0.50	14.00	172.87	6.16	461.25	23.59	0.01	0.00
501	10.30	14	SLE Q	9	28	95.00	-105.47	34.00	123.33	0.50	14.00	172.87	6.16	461.25	23.59	0.01	0.00
502	10.30	11	SLE F	9	28	95.00	-105.47	34.00	123.33	0.50	14.00	172.87	6.16	461.25	23.59	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.
5 SLU	0.00	1.05	1.05	ø8/20 2 br.	5.03	0.45	952.91	2.50	32843.50	63958.80	32843.50	34.467
5 SLU	1.25	2.05	0.80	ø8/20 2 br.	5.03	0.45	745.83	2.50	32843.50	63958.80	32843.50	44.036
5 SLU	2.25	3.05	0.80	ø8/20 2 br.	5.03	0.45	745.83	2.50	32843.50	63958.80	32843.50	44.036
5 SLU	3.25	4.60	1.35	ø8/20 2 br.	5.03	0.45	1201.21	2.50	32843.50	63958.80	32843.50	27.342
5 SLU	4.90	6.25	1.35	ø8/20 2 br.	5.03	0.45	1201.21	2.50	32843.50	63958.80	32843.50	27.342
5 SLU	6.45	7.25	0.80	ø8/20 2 br.	5.03	0.45	745.83	2.50	32843.50	63958.80	32843.50	44.036
5 SLU	7.45	8.25	0.80	ø8/20 2 br.	5.03	0.45	662.98	2.50	32843.50	63958.80	32843.50	49.539
5 SLU	8.45	9.25	0.80	ø8/20 2 br.	5.03	0.45	745.83	2.50	32843.50	63958.80	32843.50	44.036
5 SLU	9.45	10.30	0.85	ø8/20 2 br.	5.03	0.45	787.25	2.50	32843.50	63958.80	32843.50	41.719

Travata n. 509

Nodi: 10 17

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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.
0.01	7	SLU	1	0.91	8.04	28.15	8.04	28.15	-7793.82	-27054.20	3.471
1.60	7	SLU	1	159.70	8.04	28.15	8.04	28.15	-12865.30	-27054.20	2.103
4.77	7	SLU	1	477.28	8.04	28.15	8.04	28.15	-4412.28	-27054.20	6.132

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.01	1	SLV(E)	1	0.91	8.04	28.15	8.04	28.15	-6131.66	-25691.60	4.190
1.60	1	SLV(E)	1	159.70	8.04	28.15	8.04	28.15	-10080.70	-25691.60	2.549
4.77	1	SLV(E)	1	477.28	8.04	28.15	8.04	28.15	-3387.12	-25691.60	7.585

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>
0.01	10	SLE R	1	0.91	8.04	28.15	-5914.07	1015.49	-85.67	9.90
0.01	14	SLE Q	1	0.91	8.04	28.15	-5574.23	957.13	-80.75	9.33
1.60	10	SLE R	1	159.70	8.04	28.15	-9767.12	1677.08	-141.49	16.36
1.60	14	SLE Q	1	159.70	8.04	28.15	-9164.30	1573.57	-132.75	15.35
4.77	8	SLE R	1	477.28	8.04	28.15	6439.97	-167.73	339.68	13.11
4.77	10	SLE R	1	477.28	8.04	28.15	-3386.11	581.42	-49.05	5.67
4.77	14	SLE Q	1	477.28	8.04	28.15	5869.21	-152.86	309.58	11.95

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>
15	0.01	14	SLE Q	1	28	0.91	-5574.23	33.00	122.67	0.50	16.00	157.76	8.04	461.25	957.13	0.28	0.07
16	0.01	11	SLE F	1	28	0.91	-5605.54	33.00	122.67	0.50	16.00	157.76	8.04	461.25	962.51	0.28	0.08
33	1.60	14	SLE Q	1	28	159.70	-9164.30	33.00	122.67	0.50	16.00	157.76	8.04	461.25	1573.57	0.48	0.13
35	1.60	12	SLE F	1	28	159.70	-9220.52	33.00	122.67	0.50	16.00	157.76	8.04	461.25	1583.23	0.46	0.12
66	4.77	14	SLE Q	1	28	477.28	-3079.20	33.00	122.67	0.50	16.00	157.76	8.04	461.25	528.72	0.15	0.04
70	4.77	12	SLE F	1	28	477.28	-3112.84	33.00	122.67	0.50	16.00	157.76	8.04	461.25	534.50	0.16	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.
7 SLU	0.01	0.81	0.80	ø8/20 2 br.	5.03	0.45	9141.07	2.50	32843.50	63958.80	32843.50	3.593
5 SLU	0.81	3.97	3.16	ø8/20 2 br.	5.03	0.45	10880.00	2.50	32843.50	63958.80	32843.50	3.019
5 SLU	3.97	4.77	0.80	ø8/20 2 br.	5.03	0.45	18257.10	2.50	32843.50	63958.80	32843.50	1.799

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	0.01	0.81	0.80	ø8/20 2 br.	5.03	2.20
7 SLU	0.81	3.97	3.16	ø8/20 2 br.	5.03	2.20
7 SLU	3.97	4.77	0.80	ø8/20 2 br.	5.03	2.20

Travata n. 510

Nodi: -50 -51 -52 -53 -54 -55 -56 -57 -58 -59 -60 -61 28 -62 -63 -64 29 30 -65 -66 -67 -68 -69 -70 -71 31

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>
29	T	45.00	130.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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.
3.42	7	SLU	9	0.00	7.70	7.70	7.70	7.70	-4016.63	-25923.90	6.454
5.03	7	SLU	9	160.00	7.70	7.70	7.70	7.70	-3862.85	-25923.90	6.711
6.50	7	SLU	13	15.00	7.70	7.70	7.70	7.70	-7273.47	-25923.90	3.564
8.93	7	SLU	13	257.50	7.70	7.70	7.70	7.70	13321.60	24975.10	1.875
10.25	7	SLU	17	0.00	7.70	9.71	7.70	9.71	25655.40	31332.80	1.221
10.43	7	SLU	17	17.50	7.70	9.71	7.70	9.71	25655.40	31332.80	1.221
12.31	7	SLU	17	205.58	7.70	7.70	7.70	7.70	-13932.00	-25923.90	1.861
14.50	7	SLU	17	425.00	7.70	7.70	7.70	7.70	-12608.70	-25923.90	2.056
15.97	5	SLU	21	0.00	7.70	7.70	7.70	7.70	6064.37	24975.10	4.118
16.60	5	SLU	21	62.50	7.70	7.70	7.70	7.70	6064.37	24975.10	4.118
17.23	5	SLU	21	125.00	7.70	7.70	7.70	7.70	2054.20	24975.10	12.158

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
3.42	1	SLV(E)	9	0.00	7.70	7.70	7.70	7.70	-3016.05	-24611.10	8.160
5.03	1	SLV(E)	9	160.00	7.70	7.70	7.70	7.70	-2945.24	-24611.10	8.356
6.50	1	SLV(E)	13	15.00	7.70	7.70	7.70	7.70	-5535.10	-24611.10	4.446
8.93	1	SLV(E)	13	257.50	7.70	7.70	7.70	7.70	10135.70	24061.10	2.374
10.25	1	SLV(E)	17	0.00	7.70	9.71	7.70	9.71	19846.20	30120.10	1.518
10.43	1	SLV(E)	17	17.50	7.70	9.71	7.70	9.71	19846.20	30120.10	1.518
12.31	1	SLV(E)	17	205.58	7.70	7.70	7.70	7.70	-10808.70	-24611.10	2.277
14.50	1	SLV(E)	17	425.00	7.70	7.70	7.70	7.70	-9784.98	-24611.10	2.515
15.97	1	SLV(E)	21	0.00	7.70	7.70	7.70	7.70	4403.10	24061.10	5.465
16.60	1	SLV(E)	21	62.50	7.70	7.70	7.70	7.70	4403.10	24061.10	5.465
17.23	1	SLV(E)	21	125.00	7.70	7.70	7.70	7.70	1476.69	24061.10	16.294

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>
3.42	10	SLE R	9	0.00	7.70	7.70	-3024.66	542.69	-51.07	5.67
3.42	14	SLE Q	9	0.00	7.70	7.70	-2741.86	491.95	-46.30	5.14
5.03	10	SLE R	9	160.00	7.70	7.70	-2915.90	523.18	-49.24	5.46
5.03	14	SLE Q	9	160.00	7.70	7.70	-2677.49	480.40	-45.21	5.01
6.50	10	SLE R	13	15.00	7.70	7.70	-5489.39	984.92	-92.69	10.28
6.50	14	SLE Q	13	15.00	7.70	7.70	-5031.91	902.84	-84.97	9.42
8.93	10	SLE R	13	257.50	7.70	7.70	10042.10	-357.27	1841.01	32.19
8.93	14	SLE Q	13	257.50	7.70	7.70	9214.29	-327.82	1689.26	29.53
10.25	10	SLE R	17	0.00	7.70	9.71	19356.70	-653.96	2833.71	56.87

10.25	14	SLE Q	17	0.00	7.70	9.71	18042.00	-609.54	2641.25	53.01
10.43	10	SLE R	17	17.50	7.70	9.71	19356.70	-653.96	2833.71	56.87
10.43	14	SLE Q	17	17.50	7.70	9.71	18042.00	-609.54	2641.25	53.01
12.31	10	SLE R	17	205.58	7.70	7.70	-10522.00	1887.88	-177.67	19.71
12.31	14	SLE Q	17	205.58	7.70	7.70	-9826.05	1763.02	-165.92	18.40
14.50	10	SLE R	17	425.00	7.70	7.70	-9520.37	1708.17	-160.75	17.83
14.50	14	SLE Q	17	425.00	7.70	7.70	-8895.44	1596.05	-150.20	16.66
15.97	8	SLE R	21	0.00	7.70	7.70	4485.14	-159.57	822.26	14.38
15.97	14	SLE Q	21	0.00	7.70	7.70	4002.82	-142.41	733.84	12.83
16.60	8	SLE R	21	62.50	7.70	7.70	4485.14	-159.57	822.26	14.38
16.60	14	SLE Q	21	62.50	7.70	7.70	4002.82	-142.41	733.84	12.83
17.23	8	SLE R	21	125.00	7.70	7.70	1516.05	-53.94	277.94	4.86
17.23	14	SLE Q	21	125.00	7.70	7.70	1342.44	-47.76	246.11	4.30

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>
15	3.42	14	SLE Q	9	29	0.00	-2741.86	34.00	92.50	0.50	14.00	151.90	7.70	461.25	491.95	0.14	0.04
17	3.42	12	SLE F	9	29	0.00	-2766.64	34.00	92.50	0.50	14.00	151.90	7.70	461.25	496.40	0.14	0.04
47	5.03	14	SLE Q	9	29	160.00	926.20	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	169.80	0.05	0.04
51	5.03	12	SLE F	9	29	160.00	947.25	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	173.66	0.05	0.04
69	6.50	14	SLE Q	13	29	15.00	-5031.91	34.00	92.50	0.50	14.00	151.90	7.70	461.25	902.84	0.26	0.07
71	6.50	12	SLE F	13	29	15.00	-5078.40	34.00	92.50	0.50	14.00	151.90	7.70	461.25	911.18	0.27	0.07
101	8.93	14	SLE Q	13	29	257.50	9214.29	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1689.26	0.49	0.40
103	8.93	11	SLE F	13	29	257.50	9298.73	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1704.74	0.50	0.41
123	10.25	14	SLE Q	17	29	0.00	18042.00	33.83	244.00	0.50	14.37	468.28	9.71	1332.50	2641.25	0.77	0.61
124	10.25	11	SLE F	17	29	0.00	18232.60	33.83	244.00	0.50	14.37	468.28	9.71	1332.50	2669.15	0.78	0.62
141	10.43	14	SLE Q	17	29	17.50	18042.00	33.83	244.00	0.50	14.37	468.28	9.71	1332.50	2641.25	0.77	0.61
142	10.43	11	SLE F	17	29	17.50	18232.60	33.83	244.00	0.50	14.37	468.28	9.71	1332.50	2669.15	0.78	0.62
173	12.31	14	SLE Q	17	29	205.58	-9826.05	34.00	92.50	0.50	14.00	151.90	7.70	461.25	1763.02	0.56	0.15
175	12.31	11	SLE F	17	29	205.58	-9921.30	34.00	92.50	0.50	14.00	151.90	7.70	461.25	1780.11	0.52	0.13
195	14.50	14	SLE Q	17	29	425.00	-8895.44	34.00	92.50	0.50	14.00	151.90	7.70	461.25	1596.05	0.48	0.12
196	14.50	11	SLE F	17	29	425.00	-8984.79	34.00	92.50	0.50	14.00	151.90	7.70	461.25	1612.08	0.47	0.12
228	15.97	14	SLE Q	21	29	0.00	4002.82	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	733.84	0.21	0.18
230	15.97	11	SLE F	21	29	0.00	4117.18	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	754.80	0.22	0.18
264	16.60	14	SLE Q	21	29	62.50	4002.82	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	733.84	0.21	0.18
266	16.60	11	SLE F	21	29	62.50	4117.18	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	754.80	0.22	0.18
300	17.23	14	SLE Q	21	29	125.00	1342.44	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	246.11	0.07	0.06
302	17.23	11	SLE F	21	29	125.00	1382.95	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	253.54	0.07	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	3.42	5.03	1.60	ø8/20 2 br.	5.03	0.45	10377.40	2.50	32843.50	63958.80	32843.50	3.165
7 SLU	6.50	8.93	2.42	ø8/20 2 br.	5.03	0.45	22465.10	2.50	32843.50	63958.80	32843.50	1.462
7 SLU	10.43	11.22	0.80	ø8/20 2 br.	5.03	0.45	30084.00	2.50	32843.50	63958.80	32843.50	1.092
7 SLU	11.22	13.70	2.47	ø8/20 2 br.	5.03	0.45	20049.10	2.50	32843.50	63958.80	32843.50	1.638
7 SLU	13.70	14.50	0.80	ø8/20 2 br.	5.03	0.45	12377.90	2.50	32843.50	63958.80	32843.50	2.653
5 SLU	15.97	17.23	1.25	ø8/20 2 br.	5.03	0.45	11907.60	2.50	32843.50	63958.80	32843.50	2.758

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	3.42	5.03	1.60	ø8/20 2 br.	5.03	2.61
7 SLU	6.50	8.93	2.42	ø8/20 2 br.	5.03	3.22
7 SLU	10.43	11.22	0.80	ø8/20 2 br.	5.03	3.21
7 SLU	11.22	13.70	2.47	ø8/20 2 br.	5.03	3.21
7 SLU	13.70	14.50	0.80	ø8/20 2 br.	5.03	3.21
7 SLU	15.97	17.23	1.25	ø8/20 2 br.	5.03	2.34

Travata n. 511

Nodi: 14 -1 -2 -3 -4 -5 -6 -7 -8 -9 15 16 -10 -11 -12 -13 17 18 -14 -15 -16 -17 -18 -19 -20 19

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>
29	T	45.00	130.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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.
1.52	5	SLU	4	0.00	7.70	7.70	7.70	7.70	2084.90	24975.10	11.979
2.38	7	SLU	6	0.00	7.70	7.70	7.70	7.70	-2910.69	-25923.90	8.906
3.42	5	SLU	7	57.50	7.70	7.70	7.70	7.70	-2609.08	-25923.90	9.936
4.90	7	SLU	11	15.00	7.70	7.70	7.70	7.70	-8218.58	-25923.90	3.154
5.55	7	SLU	11	80.50	7.70	7.70	7.70	7.70	-8810.98	-25923.90	2.942
8.18	7	SLU	11	342.50	7.70	7.70	7.70	7.70	12855.20	24975.10	1.943
8.35	7	SLU	11	360.00	7.70	7.70	7.70	7.70	12855.20	24975.10	1.943
10.45	7	SLU	17	0.00	7.70	7.70	7.70	7.70	8213.38	24975.10	3.041
10.60	7	SLU	17	15.00	7.70	7.70	7.70	7.70	8213.38	24975.10	3.041
10.98	7	SLU	17	53.33	7.70	7.70	7.70	7.70	8213.38	24975.10	3.041
11.75	7	SLU	17	130.00	7.70	7.70	7.70	7.70	-4201.17	-25923.90	6.171
11.85	7	SLU	17	140.00	7.70	7.70	7.70	7.70	2406.16	24975.10	10.380
13.18	7	SLU	21	0.00	7.70	7.70	7.70	7.70	-6613.58	-25923.90	3.920
13.79	5	SLU	21	61.43	7.70	7.70	7.70	7.70	-7474.53	-25923.90	3.468
15.32	5	SLU	21	215.00	7.70	7.70	7.70	7.70	-7472.37	-25923.90	3.469

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
1.52	1	SLV(E)	4	0.00	7.70	7.70	7.70	7.70	1675.61	24061.10	14.360
2.38	1	SLV(E)	6	0.00	7.70	7.70	7.70	7.70	-2318.09	-24611.10	10.617
3.42	1	SLV(E)	7	57.50	7.70	7.70	7.70	7.70	-2091.61	-24611.10	11.767
4.90	1	SLV(E)	11	15.00	7.70	7.70	7.70	7.70	-6441.92	-24611.10	3.820
5.55	1	SLV(E)	11	80.50	7.70	7.70	7.70	7.70	-6926.92	-24611.10	3.553
8.18	1	SLV(E)	11	342.50	7.70	7.70	7.70	7.70	10014.80	24061.10	2.403
8.35	1	SLV(E)	11	360.00	7.70	7.70	7.70	7.70	10014.80	24061.10	2.403
10.45	1	SLV(E)	17	0.00	7.70	7.70	7.70	7.70	6314.85	24061.10	3.810
10.60	1	SLV(E)	17	15.00	7.70	7.70	7.70	7.70	6314.85	24061.10	3.810
10.98	1	SLV(E)	17	53.33	7.70	7.70	7.70	7.70	6314.85	24061.10	3.810
11.75	1	SLV(E)	17	130.00	7.70	7.70	7.70	7.70	-3193.51	-24611.10	7.707
11.85	1	SLV(E)	17	140.00	7.70	7.70	7.70	7.70	1823.29	24061.10	13.197
13.18	1	SLV(E)	21	0.00	7.70	7.70	7.70	7.70	-5282.50	-24611.10	4.659
13.79	1	SLV(E)	21	61.43	7.70	7.70	7.70	7.70	-5834.99	-24611.10	4.218
15.32	1	SLV(E)	21	215.00	7.70	7.70	7.70	7.70	-5805.42	-24611.10	4.239

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>
1.52	8	SLE R	4	0.00	7.70	7.70	1579.39	-56.19	289.55	5.06
1.52	14	SLE Q	4	0.00	7.70	7.70	1523.28	-54.20	279.26	4.88
2.38	10	SLE R	6	0.00	7.70	7.70	-2207.64	396.10	-37.28	4.13
2.38	14	SLE Q	6	0.00	7.70	7.70	-2107.36	378.11	-35.58	3.95
3.42	8	SLE R	7	57.50	7.70	7.70	-1980.26	355.30	-33.44	3.71
3.42	14	SLE Q	7	57.50	7.70	7.70	-1901.47	341.17	-32.11	3.56
4.90	10	SLE R	11	15.00	7.70	7.70	-6227.35	1117.33	-105.15	11.66
4.90	14	SLE Q	11	15.00	7.70	7.70	-5856.29	1050.75	-98.89	10.97
5.55	10	SLE R	11	80.50	7.70	7.70	-6671.21	1196.97	-112.65	12.50
5.55	14	SLE Q	11	80.50	7.70	7.70	-6297.20	1129.86	-106.33	11.79
8.18	10	SLE R	11	342.50	7.70	7.70	9750.84	-346.91	1787.62	31.25
8.18	14	SLE Q	11	342.50	7.70	7.70	9104.40	-323.92	1669.11	29.18
8.35	10	SLE R	11	360.00	7.70	7.70	9750.84	-346.91	1787.62	31.25
8.35	14	SLE Q	11	360.00	7.70	7.70	9104.40	-323.92	1669.11	29.18
10.45	10	SLE R	17	0.00	7.70	7.70	6227.82	-221.57	1141.75	19.96
10.45	14	SLE Q	17	0.00	7.70	7.70	5740.77	-204.24	1052.46	18.40
10.60	10	SLE R	17	15.00	7.70	7.70	6227.82	-221.57	1141.75	19.96
10.60	14	SLE Q	17	15.00	7.70	7.70	5740.77	-204.24	1052.46	18.40
10.98	10	SLE R	17	53.33	7.70	7.70	6227.82	-221.57	1141.75	19.96
10.98	14	SLE Q	17	53.33	7.70	7.70	5740.77	-204.24	1052.46	18.40
11.75	10	SLE R	17	130.00	7.70	7.70	2800.14	-99.62	513.35	8.98
11.75	10	SLE R	17	130.00	7.70	7.70	-3235.65	580.55	-54.64	6.06
11.75	14	SLE Q	17	130.00	7.70	7.70	2568.08	-91.37	470.81	8.23
11.85	10	SLE R	17	140.00	7.70	7.70	1811.83	-64.46	332.16	5.81
11.85	14	SLE Q	17	140.00	7.70	7.70	1657.53	-58.97	303.88	5.31
13.18	10	SLE R	21	0.00	7.70	7.70	-5029.65	902.43	-84.93	9.42
13.18	14	SLE Q	21	0.00	7.70	7.70	-4802.27	861.64	-81.09	8.99
13.79	8	SLE R	21	61.43	7.70	7.70	-5630.89	1010.31	-95.08	10.55
13.79	14	SLE Q	21	61.43	7.70	7.70	-5304.54	951.76	-89.57	9.94
15.32	8	SLE R	21	215.00	7.70	7.70	-5625.11	1009.27	-94.98	10.54
15.32	14	SLE Q	21	215.00	7.70	7.70	-5277.66	946.93	-89.11	9.89

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 <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
30	1.52	14	SLE Q	4	29	0.00	1523.28	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	279.26	0.08	0.07
32	1.52	11	SLE F	4	29	0.00	1540.34	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	282.39	0.08	0.07
51	2.38	14	SLE Q	6	29	0.00	-2107.36	34.00	92.50	0.50	14.00	151.90	7.70	461.25	378.11	0.11	0.03
52	2.38	11	SLE F	6	29	0.00	-2124.08	34.00	92.50	0.50	14.00	151.90	7.70	461.25	381.11	0.11	0.03
84	3.42	14	SLE Q	7	29	57.50	-1901.47	34.00	92.50	0.50	14.00	151.90	7.70	461.25	341.17	0.10	0.03
86	3.42	11	SLE F	7	29	57.50	-1917.29	34.00	92.50	0.50	14.00	151.90	7.70	461.25	344.01	0.10	0.03
105	4.90	14	SLE Q	11	29	15.00	-5856.29	34.00	92.50	0.50	14.00	151.90	7.70	461.25	1050.75	0.31	0.08
106	4.90	11	SLE F	11	29	15.00	-5896.97	34.00	92.50	0.50	14.00	151.90	7.70	461.25	1058.05	0.31	0.08
123	5.55	14	SLE Q	11	29	80.50	-6297.20	34.00	92.50	0.50	14.00	151.90	7.70	461.25	1129.86	0.33	0.08
124	5.55	11	SLE F	11	29	80.50	-6350.41	34.00	92.50	0.50	14.00	151.90	7.70	461.25	1139.41	0.33	0.09
155	8.18	14	SLE Q	11	29	342.50	9104.40	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1669.11	0.49	0.40
159	8.18	12	SLE F	11	29	342.50	9177.66	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1682.54	0.49	0.40
177	8.35	14	SLE Q	11	29	360.00	9104.40	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1669.11	0.49	0.40
179	8.35	12	SLE F	11	29	360.00	9177.66	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1682.54	0.49	0.40
195	10.45	14	SLE Q	17	29	0.00	5740.77	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1052.46	0.31	0.25
197	10.45	12	SLE F	17	29	0.00	5790.52	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1061.58	0.31	0.25
228	10.60	14	SLE Q	17	29	15.00	5740.77	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1052.46	0.31	0.25
232	10.60	12	SLE F	17	29	15.00	5790.52	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1061.58	0.31	0.25
264	10.98	14	SLE Q	17	29	53.33	5740.77	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1052.46	0.31	0.25
268	10.98	12	SLE F	17	29	53.33	5790.52	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	1061.58	0.31	0.25
300	11.75	14	SLE Q	17	29	130.00	2568.08	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	470.81	0.14	0.11
304	11.75	12	SLE F	17	29	130.00	2590.60	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	474.94	0.14	0.11
321	11.85	14	SLE Q	17	29	140.00	1657.53	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	303.88	0.09	0.07
322	11.85	11	SLE F	17	29	140.00	1674.14	34.00	305.00	0.50	14.00	481.73	7.70	1332.50	306.92	0.09	0.07
353	13.18	14	SLE Q	21	29	0.00	-4802.27	34.00	92.50	0.50	14.00	151.90	7.70	461.25	861.64	0.25	0.06
355	13.18	11	SLE F	21	29	0.00	-4826.91	34.00	92.50	0.50	14.00	151.90	7.70	461.25	866.06	0.25	0.07
389	13.79	14	SLE Q	21	29	61.43	-5304.54	34.00	92.50	0.50	14.00	151.90	7.70	461.25	951.76	0.28	0.07

391	13.79	11	SLE F	21	29	61.43	-5372.13	34.00	92.50	0.50	14.00	151.90	7.70	461.25	963.88	0.28	0.07
411	15.32	14	SLE Q	21	29	215.00	-5277.66	34.00	92.50	0.50	14.00	151.90	7.70	461.25	946.93	0.28	0.07
412	15.32	11	SLE F	21	29	215.00	-5352.85	34.00	92.50	0.50	14.00	151.90	7.70	461.25	960.42	0.28	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.
5 SLU	1.52	3.42	1.90	ø8/20 2 br.	5.03	0.45	8793.59	2.50	32843.50	63958.80	32843.50	3.735
5 SLU	4.90	5.70	0.80	ø8/20 2 br.	5.03	0.45	10676.00	2.50	32843.50	63958.80	32843.50	3.076
7 SLU	5.70	7.37	1.67	ø8/20 2 br.	5.03	0.45	12276.60	2.50	32843.50	63958.80	32843.50	2.675
7 SLU	7.37	8.18	0.80	ø8/20 2 br.	5.03	0.45	20802.70	2.50	32843.50	63958.80	32843.50	1.579
7 SLU	10.60	11.75	1.15	ø8/20 2 br.	5.03	0.45	16906.60	2.50	32843.50	63958.80	32843.50	1.943
5 SLU	13.18	15.32	2.15	ø8/20 2 br.	5.03	0.45	12758.30	2.50	32843.50	63958.80	32843.50	2.574

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	1.52	3.42	1.90	ø8/20 2 br.	5.03	2.19
7 SLU	4.90	5.70	0.80	ø8/20 2 br.	5.03	2.77
7 SLU	5.70	7.37	1.67	ø8/20 2 br.	5.03	2.77
7 SLU	7.37	8.18	0.80	ø8/20 2 br.	5.03	2.77
7 SLU	10.60	11.75	1.15	ø8/20 2 br.	5.03	2.84
5 SLU	13.18	15.32	2.15	ø8/20 2 br.	5.03	2.58

Travata n. 512

Nodi: 19 20 24 25 31 -1051 -1055 -1054 -1053 43

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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.
0.15	5	SLU	1	15.00	8.04	6.16	8.04	6.16	-3162.73	-26902.60	8.506
1.57	5	SLU	1	157.50	8.04	6.16	8.04	6.16	-3162.73	-26902.60	8.506
1.77	7	SLU	2	10.00	8.04	6.16	8.04	6.16	495.33	20099.60	40.578
3.08	7	SLU	2	140.00	8.04	6.16	8.04	6.16	3500.53	20099.60	5.742
3.38	7	SLU	3	15.00	8.04	6.16	8.04	6.16	4182.14	20099.60	4.806
4.67	7	SLU	3	145.00	8.04	6.16	8.04	6.16	3998.31	20099.60	5.027
4.88	7	SLU	4	10.00	8.04	6.16	8.04	6.16	4268.31	20099.60	4.709
6.38	7	SLU	4	160.00	8.04	6.16	8.04	6.16	7767.56	20099.60	2.588
6.67	5	SLU	5	0.00	8.04	6.16	8.04	6.16	15080.70	20099.60	1.333
8.83	7	SLU	5	215.38	8.04	6.16	8.04	6.16	-9999.64	-26902.60	2.690
10.68	7	SLU	5	400.00	8.04	6.16	8.04	6.16	-9866.88	-26902.60	2.727

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.15	1	SLV(E)	1	15.00	8.04	6.16	8.04	6.16	-2474.40	-25648.40	10.366
1.57	1	SLV(E)	1	157.50	8.04	6.16	8.04	6.16	-2474.40	-25648.40	10.366
1.77	1	SLV(E)	2	10.00	8.04	6.16	8.04	6.16	296.96	19373.70	65.241
3.08	1	SLV(E)	2	140.00	8.04	6.16	8.04	6.16	2675.73	19373.70	7.241
3.38	1	SLV(E)	3	15.00	8.04	6.16	8.04	6.16	3219.19	19373.70	6.018
4.67	1	SLV(E)	3	145.00	8.04	6.16	8.04	6.16	3050.06	19373.70	6.352
4.88	1	SLV(E)	4	10.00	8.04	6.16	8.04	6.16	3261.08	19373.70	5.941
6.38	1	SLV(E)	4	160.00	8.04	6.16	8.04	6.16	5987.80	19373.70	3.236
6.67	1	SLV(E)	5	0.00	8.04	6.16	8.04	6.16	11685.80	19373.70	1.658
8.83	1	SLV(E)	5	215.38	8.04	6.16	8.04	6.16	-7785.04	-25648.40	3.295
10.68	1	SLV(E)	5	400.00	8.04	6.16	8.04	6.16	-7658.45	-25648.40	3.349

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>
0.15	8	SLE R	1	15.00	8.04	6.16	-2383.09	410.34	-43.32	4.61
0.15	14	SLE Q	1	15.00	8.04	6.16	-2249.46	387.33	-40.89	4.36
1.57	8	SLE R	1	157.50	8.04	6.16	-2383.09	410.34	-43.32	4.61
1.57	14	SLE Q	1	157.50	8.04	6.16	-2249.46	387.33	-40.89	4.36
1.77	10	SLE R	2	10.00	8.04	6.16	375.06	-13.87	85.41	1.30
1.77	14	SLE Q	2	10.00	8.04	6.16	269.96	-9.99	61.47	0.94
3.08	10	SLE R	2	140.00	8.04	6.16	2653.22	-98.14	604.18	9.22
3.08	14	SLE Q	2	140.00	8.04	6.16	2432.48	-89.98	553.91	8.45
3.38	10	SLE R	3	15.00	8.04	6.16	3167.96	-117.19	721.39	11.00
3.38	14	SLE Q	3	15.00	8.04	6.16	2926.53	-108.25	666.42	10.17
4.67	10	SLE R	3	145.00	8.04	6.16	3015.68	-111.55	686.72	10.48
4.67	14	SLE Q	3	145.00	8.04	6.16	2772.79	-102.57	631.40	9.63
4.88	10	SLE R	4	10.00	8.04	6.16	3218.40	-119.05	732.88	11.18
4.88	14	SLE Q	4	10.00	8.04	6.16	2964.62	-109.66	675.09	10.30
6.38	10	SLE R	4	160.00	8.04	6.16	5853.97	-216.54	1333.04	20.34
6.38	14	SLE Q	4	160.00	8.04	6.16	5443.46	-201.36	1239.56	18.91
6.67	8	SLE R	5	0.00	8.04	6.16	11347.50	-419.75	2584.00	39.42
6.67	14	SLE Q	5	0.00	8.04	6.16	10623.50	-392.97	2419.13	36.90
8.83	10	SLE R	5	215.38	8.04	6.16	-7549.01	1299.84	-137.21	14.62
8.83	14	SLE Q	5	215.38	8.04	6.16	-7077.31	1218.62	-128.64	13.70

10.68	10	SLE R	5	400.00	8.04	6.16	-7438.67	1280.84	-135.21	14.40
10.68	14	SLE Q	5	400.00	8.04	6.16	-6962.23	1198.81	-126.55	13.48

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>
15	0.15	14	SLE Q	1	28	15.00	-2249.46	33.00	122.67	0.50	16.00	157.76	8.04	461.25	387.33	0.11	0.03
16	0.15	11	SLE F	1	28	15.00	-2281.10	33.00	122.67	0.50	16.00	157.76	8.04	461.25	392.78	0.11	0.03
33	1.57	14	SLE Q	1	28	157.50	-2249.46	33.00	122.67	0.50	16.00	157.76	8.04	461.25	387.33	0.11	0.03
34	1.57	11	SLE F	1	28	157.50	-2281.10	33.00	122.67	0.50	16.00	157.76	8.04	461.25	392.78	0.11	0.03
65	1.77	14	SLE Q	2	28	10.00	269.96	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	61.47	0.02	0.02
69	1.77	12	SLE F	2	28	10.00	288.08	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	65.60	0.02	0.02
101	3.08	14	SLE Q	2	28	140.00	2432.48	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	553.91	0.16	0.14
105	3.08	12	SLE F	2	28	140.00	2462.99	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	560.86	0.16	0.14
123	3.38	14	SLE Q	3	28	15.00	2926.53	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	666.42	0.19	0.16
125	3.38	12	SLE F	3	28	15.00	2958.62	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	673.72	0.20	0.16
141	4.67	14	SLE Q	3	28	145.00	2772.79	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	631.40	0.18	0.15
143	4.67	12	SLE F	3	28	145.00	2799.74	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	637.54	0.19	0.16
159	4.88	14	SLE Q	4	28	10.00	2964.62	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	675.09	0.20	0.17
160	4.88	11	SLE F	4	28	10.00	2992.65	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	681.47	0.20	0.17
177	6.38	14	SLE Q	4	28	160.00	5443.46	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	1239.56	0.36	0.30
178	6.38	11	SLE F	4	28	160.00	5506.21	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	1253.85	0.37	0.31
195	6.67	14	SLE Q	5	28	0.00	10623.50	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	2419.13	0.70	0.59
196	6.67	11	SLE F	5	28	0.00	10776.90	34.00	373.33	0.50	14.00	494.00	6.16	1230.00	2454.07	0.71	0.60
213	8.83	14	SLE Q	5	28	215.38	-7077.31	33.00	122.67	0.50	16.00	157.76	8.04	461.25	1218.62	0.35	0.10
214	8.83	11	SLE F	5	28	215.38	-7153.09	33.00	122.67	0.50	16.00	157.76	8.04	461.25	1231.67	0.36	0.10
231	10.68	14	SLE Q	5	28	400.00	-6962.23	33.00	122.67	0.50	16.00	157.76	8.04	461.25	1198.81	0.35	0.09
232	10.68	11	SLE F	5	28	400.00	-7046.66	33.00	122.67	0.50	16.00	157.76	8.04	461.25	1213.35	0.35	0.09

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.
5 SLU	0.15	1.57	1.43	ø8/20 2 br.	5.03	0.45	6859.74	2.50	32843.50	63958.80	32843.50	4.788
7 SLU	1.77	3.08	1.30	ø8/20 2 br.	5.03	0.45	8767.03	2.50	32843.50	63958.80	32843.50	3.746
7 SLU	3.38	4.67	1.30	ø8/20 2 br.	5.03	0.45	6012.27	2.50	32843.50	63958.80	32843.50	5.463
7 SLU	4.88	6.38	1.50	ø8/20 2 br.	5.03	0.45	8611.43	2.50	32843.50	63958.80	32843.50	3.814
7 SLU	6.67	7.48	0.80	ø8/20 2 br.	5.03	0.45	18125.00	2.50	32843.50	63958.80	32843.50	1.812
7 SLU	7.48	9.87	2.40	ø8/20 2 br.	5.03	0.45	12173.40	2.50	32843.50	63958.80	32843.50	2.698
7 SLU	9.87	10.68	0.80	ø8/20 2 br.	5.03	0.45	4968.29	2.50	32843.50	63958.80	32843.50	6.611

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
5 SLU	0.15	1.57	1.43	ø8/20 2 br.	5.03	2.01
5 SLU	1.77	3.08	1.30	ø8/20 2 br.	5.03	1.95
7 SLU	3.38	4.67	1.30	ø8/20 2 br.	5.03	1.94
7 SLU	4.88	6.38	1.50	ø8/20 2 br.	5.03	1.89
7 SLU	6.67	7.48	0.80	ø8/20 2 br.	5.03	1.72
7 SLU	7.48	9.87	2.40	ø8/20 2 br.	5.03	1.72
7 SLU	9.87	10.68	0.80	ø8/20 2 br.	5.03	1.72

Travata n. 513

Nodi: 37 38 39 40 41 42 43

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>
28	T	45.00	120.00	60.00	20.00	4.10	4.10	287.50	22.65	181.02	120.68	11.19	4400.00	4400.00	3826.09

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.
0.30	7	SLU	1	30.00	6.16	4.52	6.16	4.52	-4770.39	-20834.00	4.367
1.26	7	SLU	1	125.62	6.16	4.52	6.16	4.52	-6607.53	-20834.00	3.153
4.12	7	SLU	1	412.50	6.16	4.52	6.16	4.52	3378.76	14917.10	4.415
4.33	7	SLU	2	10.00	6.16	4.52	6.16	4.52	3800.87	14917.10	3.925
6.20	7	SLU	2	197.50	6.16	4.52	6.16	4.52	4688.94	14917.10	3.181
6.50	7	SLU	3	15.00	6.16	4.52	6.16	4.52	4121.58	14917.10	3.619
7.78	7	SLU	3	142.50	6.16	4.52	6.16	4.52	-4355.97	-20834.00	4.783
10.32	7	SLU	3	397.50	6.16	4.52	6.16	4.52	4301.54	14917.10	3.468
10.53	7	SLU	4	10.00	6.16	4.52	6.16	4.52	4649.58	14917.10	3.208
12.40	7	SLU	4	197.50	6.16	4.52	6.16	4.52	4925.59	14917.10	3.028
12.70	7	SLU	5	15.00	6.16	4.52	6.16	4.52	4359.85	14917.10	3.421
13.97	7	SLU	5	142.50	6.16	4.52	6.16	4.52	-4877.81	-20834.00	4.271
16.52	7	SLU	5	397.50	6.16	4.52	6.16	4.52	2652.22	14917.10	5.624
16.73	7	SLU	6	10.00	6.16	4.52	6.16	4.52	2787.87	14917.10	5.351
17.06	7	SLU	6	43.75	6.16	4.52	6.16	4.52	2787.87	14917.10	5.351
18.75	5	SLU	6	212.50	6.16	4.52	6.16	4.52	-1053.06	-20834.00	19.784

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.30	1	SLV(E)	1	30.00	6.16	4.52	6.16	4.52	-3463.57	-19739.90	5.699
1.26	1	SLV(E)	1	125.62	6.16	4.52	6.16	4.52	-4941.03	-19739.90	3.995
4.12	1	SLV(E)	1	412.50	6.16	4.52	6.16	4.52	2217.00	14323.80	6.461

4.33	1	SLV(E)	2	10.00	6.16	4.52	6.16	4.52	2540.83	14323.80	5.637
6.20	1	SLV(E)	2	197.50	6.16	4.52	6.16	4.52	3278.56	14323.80	4.369
6.50	1	SLV(E)	3	15.00	6.16	4.52	6.16	4.52	2881.26	14323.80	4.971
7.78	1	SLV(E)	3	142.50	6.16	4.52	6.16	4.52	-3161.30	-19739.90	6.244
10.32	1	SLV(E)	3	397.50	6.16	4.52	6.16	4.52	3070.74	14323.80	4.665
10.53	1	SLV(E)	4	10.00	6.16	4.52	6.16	4.52	3320.93	14323.80	4.313
12.40	1	SLV(E)	4	197.50	6.16	4.52	6.16	4.52	3440.43	14323.80	4.163
12.70	1	SLV(E)	5	15.00	6.16	4.52	6.16	4.52	2999.65	14323.80	4.775
13.97	1	SLV(E)	5	142.50	6.16	4.52	6.16	4.52	-3805.16	-19739.90	5.188
16.52	1	SLV(E)	5	397.50	6.16	4.52	6.16	4.52	1651.40	14323.80	8.674
16.73	1	SLV(E)	6	10.00	6.16	4.52	6.16	4.52	1741.94	14323.80	8.223
17.06	1	SLV(E)	6	43.75	6.16	4.52	6.16	4.52	1741.94	14323.80	8.223
18.75	1	SLV(E)	6	212.50	6.16	4.52	6.16	4.52	-861.16	-19739.90	22.922

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>
0.30	10	SLE R	1	30.00	6.16	4.52	-3601.35	805.71	-69.04	7.93
0.30	14	SLE Q	1	30.00	6.16	4.52	-3148.70	704.44	-60.36	6.94
1.26	10	SLE R	1	125.62	6.16	4.52	-5004.40	1119.60	-95.94	11.02
1.26	14	SLE Q	1	125.62	6.16	4.52	-4491.84	1004.93	-86.11	9.89
4.12	10	SLE R	1	412.50	6.16	4.52	2521.26	-103.13	776.85	10.23
4.12	14	SLE Q	1	412.50	6.16	4.52	2015.46	-82.44	621.00	8.17
4.33	10	SLE R	2	10.00	6.16	4.52	2841.81	-116.25	875.62	11.53
4.33	14	SLE Q	2	10.00	6.16	4.52	2309.85	-94.48	711.71	9.37
6.20	10	SLE R	2	197.50	6.16	4.52	3523.13	-144.11	1085.54	14.29
6.20	14	SLE Q	2	197.50	6.16	4.52	2980.51	-121.92	918.35	12.09
6.50	10	SLE R	3	15.00	6.16	4.52	3096.46	-126.66	954.08	12.56
6.50	14	SLE Q	3	15.00	6.16	4.52	2619.33	-107.14	807.07	10.62
7.78	10	SLE R	3	142.50	6.16	4.52	-3287.12	735.40	-63.02	7.24
7.78	14	SLE Q	3	142.50	6.16	4.52	-2873.91	642.96	-55.10	6.33
10.32	10	SLE R	3	397.50	6.16	4.52	3241.74	-132.60	998.84	13.15
10.32	14	SLE Q	3	397.50	6.16	4.52	2791.58	-114.19	860.14	11.32
10.53	10	SLE R	4	10.00	6.16	4.52	3504.19	-143.34	1079.71	14.21
10.53	14	SLE Q	4	10.00	6.16	4.52	3019.03	-123.49	930.22	12.24
12.40	10	SLE R	4	197.50	6.16	4.52	3704.59	-151.54	1141.45	15.02
12.40	14	SLE Q	4	197.50	6.16	4.52	3127.66	-127.94	963.69	12.68
12.70	10	SLE R	5	15.00	6.16	4.52	3274.51	-133.94	1008.94	13.28
12.70	14	SLE Q	5	15.00	6.16	4.52	2726.95	-111.55	840.23	11.06
13.97	10	SLE R	5	142.50	6.16	4.52	-3704.59	828.80	-71.02	8.16
13.97	14	SLE Q	5	142.50	6.16	4.52	-3459.24	773.91	-66.32	7.62
16.52	10	SLE R	5	397.50	6.16	4.52	1974.91	-80.78	608.51	8.01
16.52	14	SLE Q	5	397.50	6.16	4.52	1501.27	-61.41	462.57	6.09
16.73	10	SLE R	6	10.00	6.16	4.52	2076.58	-84.94	639.83	8.42
16.73	14	SLE Q	6	10.00	6.16	4.52	1583.58	-64.78	487.93	6.42
17.06	10	SLE R	6	43.75	6.16	4.52	2076.58	-84.94	639.83	8.42
17.06	14	SLE Q	6	43.75	6.16	4.52	1583.58	-64.78	487.93	6.42
18.75	8	SLE R	6	212.50	6.16	4.52	500.16	-20.46	154.11	2.03
18.75	8	SLE R	6	212.50	6.16	4.52	-802.66	179.57	-15.39	1.77
18.75	14	SLE Q	6	212.50	6.16	4.52	500.28	-20.46	154.15	2.03

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>
29	0.30	14	SLE Q	1	28	30.00	-3148.70	34.00	123.33	0.50	14.00	172.87	6.16	461.25	704.44	0.21	0.06
33	0.30	12	SLE F	1	28	30.00	-3186.26	34.00	123.33	0.50	14.00	172.87	6.16	461.25	712.84	0.21	0.06
63	1.26	14	SLE Q	1	28	125.62	-4491.84	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1004.93	0.29	0.09
67	1.26	12	SLE F	1	28	125.62	-4534.39	34.00	123.33	0.50	14.00	172.87	6.16	461.25	1014.45	0.30	0.09
99	4.12	14	SLE Q	1	28	412.50	2015.46	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	621.00	0.18	0.16
103	4.12	12	SLE F	1	28	412.50	2058.15	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	634.15	0.18	0.16
121	4.33	14	SLE Q	2	28	10.00	2309.85	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	711.71	0.21	0.18
123	4.33	12	SLE F	2	28	10.00	2354.85	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	725.57	0.21	0.18
139	6.20	14	SLE Q	2	28	197.50	2980.51	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	918.35	0.27	0.23
141	6.20	12	SLE F	2	28	197.50	3026.29	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	932.46	0.27	0.23
172	6.50	14	SLE Q	3	28	15.00	2619.33	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	807.07	0.24	0.20
176	6.50	12	SLE F	3	28	15.00	2659.89	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	819.56	0.24	0.21
207	7.78	14	SLE Q	3	28	142.50	-2873.91	34.00	123.33	0.50	14.00	172.87	6.16	461.25	642.96	0.19	0.06
211	7.78	12	SLE F	3	28	142.50	-2908.65	34.00	123.33	0.50	14.00	172.87	6.16	461.25	650.73	0.19	0.06
243	10.32	14	SLE Q	3	28	397.50	2791.58	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	860.14	0.25	0.22
247	10.32	12	SLE F	3	28	397.50	2829.46	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	871.81	0.25	0.22
265	10.53	14	SLE Q	4	28	10.00	3019.03	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	930.22	0.27	0.23
267	10.53	12	SLE F	4	28	10.00	3060.01	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	942.85	0.27	0.24
283	12.40	14	SLE Q	4	28	197.50	3127.66	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	963.69	0.28	0.24
285	12.40	12	SLE F	4	28	197.50	3176.61	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	978.77	0.29	0.25
316	12.70	14	SLE Q	5	28	15.00	2726.95	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	840.23	0.24	0.21
320	12.70	12	SLE F	5	28	15.00	2773.81	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	854.66	0.25	0.21
351	13.97	14	SLE Q	5	28	142.50	-3459.24	34.00	123.33	0.50	14.00	172.87	6.16	461.25	773.91	0.23	0.07
355	13.97	12	SLE F	5	28	142.50	-3479.22	34.00	123.33	0.50	14.00	172.87	6.16	461.25	778.38	0.23	0.07
387	16.52	14	SLE Q	5	28	397.50	1501.27	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	462.57	0.13	0.12
391	16.52	12	SLE F	5	28	397.50	1541.09	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	474.84	0.14	0.12
424	16.73	14	SLE Q	6	28	10.00	1583.58	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	487.93	0.14	0.12
428	16.73	12	SLE F	6	28	10.00	1625.15	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	500.74	0.15	0.13
460	17.06	14	SLE Q	6	28	43.75	1583.58	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	487.93	0.14	0.12
464	17.06	12	SLE F	6	28	43.75	1625.15	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	500.74	0.15	0.13

495	18.75	14	SLE Q	6	28	212.50	500.28	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	154.15	0.04	0.04
497	18.75	11	SLE F	6	28	212.50	506.27	35.00	374.00	0.50	12.00	506.14	4.52	1230.00	155.99	0.05	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.
7 SLU	0.30	1.10	0.80	ø8/20 2 br.	5.03	0.45	7953.75	2.50	32843.50	63958.80	32843.50	4.129
7 SLU	1.10	3.32	2.22	ø8/20 2 br.	5.03	0.45	5517.40	2.50	32843.50	63958.80	32843.50	5.953
7 SLU	3.32	4.12	0.80	ø8/20 2 br.	5.03	0.45	9073.11	2.50	32843.50	63958.80	32843.50	3.620
7 SLU	4.33	6.20	1.88	ø8/20 2 br.	5.03	0.45	4887.92	2.50	32843.50	63958.80	32843.50	6.719
7 SLU	6.50	7.30	0.80	ø8/20 2 br.	5.03	0.45	8570.53	2.50	32843.50	63958.80	32843.50	3.832
7 SLU	7.30	9.52	2.22	ø8/20 2 br.	5.03	0.45	4997.69	2.50	32843.50	63958.80	32843.50	6.572
7 SLU	9.52	10.32	0.80	ø8/20 2 br.	5.03	0.45	8739.33	2.50	32843.50	63958.80	32843.50	3.758
7 SLU	10.53	12.40	1.88	ø8/20 2 br.	5.03	0.45	4684.63	2.50	32843.50	63958.80	32843.50	7.011
7 SLU	12.70	13.50	0.80	ø8/20 2 br.	5.03	0.45	8913.70	2.50	32843.50	63958.80	32843.50	3.685
7 SLU	13.50	15.72	2.22	ø8/20 2 br.	5.03	0.45	5242.16	2.50	32843.50	63958.80	32843.50	6.265
7 SLU	15.72	16.52	0.80	ø8/20 2 br.	5.03	0.45	7907.81	2.50	32843.50	63958.80	32843.50	4.153
7 SLU	16.73	18.75	2.02	ø8/20 2 br.	5.03	0.45	5903.54	2.50	32843.50	63958.80	32843.50	5.563

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	0.30	1.10	0.80	ø8/20 2 br.	5.03	1.24
7 SLU	1.10	3.32	2.22	ø8/20 2 br.	5.03	1.24
7 SLU	3.32	4.12	0.80	ø8/20 2 br.	5.03	1.24
7 SLU	4.33	6.20	1.88	ø8/20 2 br.	5.03	1.14
7 SLU	6.50	7.30	0.80	ø8/20 2 br.	5.03	1.16
7 SLU	7.30	9.52	2.22	ø8/20 2 br.	5.03	1.16
7 SLU	9.52	10.32	0.80	ø8/20 2 br.	5.03	1.16
7 SLU	10.53	12.40	1.88	ø8/20 2 br.	5.03	1.16
7 SLU	12.70	13.50	0.80	ø8/20 2 br.	5.03	1.15
7 SLU	13.50	15.72	2.22	ø8/20 2 br.	5.03	1.15
7 SLU	15.72	16.52	0.80	ø8/20 2 br.	5.03	1.15
7 SLU	16.73	18.75	2.02	ø8/20 2 br.	5.03	1.20

Travata n. 514

Nodi: 334 335 336

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	b <cm>	H <cm>	h <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
40	T	30.00	90.00	65.00	30.00	4.10	4.10	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

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.
0.08	7	SLU	1	8.00	8.04	8.04	8.04	8.04	-4322.61	-28422.40	6.575
1.62	7	SLU	1	161.68	8.04	8.04	8.04	8.04	-5894.28	-28422.40	4.822
5.92	7	SLU	1	592.00	8.04	8.04	8.04	8.04	2091.16	27719.40	13.255
6.08	7	SLU	2	8.00	8.04	8.04	8.04	8.04	2099.14	27719.40	13.205
7.90	7	SLU	2	189.60	8.04	8.04	8.04	8.04	-3843.68	-28422.40	7.395
10.62	7	SLU	2	462.00	8.04	8.04	8.04	8.04	-3197.10	-28422.40	8.890

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.08	1	SLV(E)	1	8.00	8.04	8.04	8.04	8.04	-3041.91	-27253.00	8.959
1.62	1	SLV(E)	1	161.68	8.04	8.04	8.04	8.04	-4148.78	-27253.00	6.569
5.92	1	SLV(E)	1	592.00	8.04	8.04	8.04	8.04	1447.46	26641.80	18.406
6.08	1	SLV(E)	2	8.00	8.04	8.04	8.04	8.04	1450.11	26641.80	18.372
7.90	1	SLV(E)	2	189.60	8.04	8.04	8.04	8.04	-2716.88	-27253.00	10.031
10.62	1	SLV(E)	2	462.00	8.04	8.04	8.04	8.04	-2256.80	-27253.00	12.076

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>
0.08	10	SLE R	1	8.00	8.04	8.04	-3250.41	467.51	-56.79	5.44
0.08	14	SLE Q	1	8.00	8.04	8.04	-2765.37	397.75	-48.31	4.63
1.62	10	SLE R	1	161.68	8.04	8.04	-4432.39	637.52	-77.44	7.41
1.62	14	SLE Q	1	161.68	8.04	8.04	-3771.62	542.48	-65.89	6.31
5.92	10	SLE R	1	592.00	8.04	8.04	1569.51	-54.70	230.53	4.54
5.92	14	SLE Q	1	592.00	8.04	8.04	1315.88	-45.86	193.28	3.81
6.08	10	SLE R	2	8.00	8.04	8.04	1575.24	-54.90	231.37	4.56
6.08	14	SLE Q	2	8.00	8.04	8.04	1318.28	-45.94	193.63	3.82
7.90	10	SLE R	2	189.60	8.04	8.04	-2891.79	415.93	-50.52	4.84
7.90	14	SLE Q	2	189.60	8.04	8.04	-2469.89	355.25	-43.15	4.13
10.62	10	SLE R	2	462.00	8.04	8.04	-2405.00	345.92	-42.02	4.02
10.62	14	SLE Q	2	462.00	8.04	8.04	-2051.64	295.09	-35.84	3.43

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	0.08	14	SLE Q	1	40	8.00	-2765.37	33.00	72.67	0.50	16.00	127.17	8.04	307.50	397.75	0.12	0.03
17	0.08	12	SLE F	1	40	8.00	-2828.23	33.00	72.67	0.50	16.00	127.17	8.04	307.50	406.79	0.12	0.03
33	1.62	14	SLE Q	1	40	161.68	-3771.62	33.00	72.67	0.50	16.00	127.17	8.04	307.50	542.48	0.16	0.03

35	1.62	12	SLE	F	1	40	161.68	-3857.30	33.00	72.67	0.50	16.00	127.17	8.04	307.50	554.80	0.16	0.03
65	5.92	14	SLE	Q	1	40	592.00	1315.88	33.00	272.67	0.50	16.00	556.91	8.04	922.50	193.28	0.06	0.05
69	5.92	12	SLE	F	1	40	592.00	1348.74	33.00	272.67	0.50	16.00	556.91	8.04	922.50	198.10	0.06	0.05
102	6.08	14	SLE	Q	2	40	8.00	1318.28	33.00	272.67	0.50	16.00	556.91	8.04	922.50	193.63	0.06	0.05
106	6.08	12	SLE	F	2	40	8.00	1351.64	33.00	272.67	0.50	16.00	556.91	8.04	922.50	198.53	0.06	0.05
123	7.90	14	SLE	Q	2	40	189.60	-2469.89	33.00	72.67	0.50	16.00	127.17	8.04	307.50	355.25	0.10	0.02
125	7.90	12	SLE	F	2	40	189.60	-2524.67	33.00	72.67	0.50	16.00	127.17	8.04	307.50	363.13	0.11	0.02
141	10.62	14	SLE	Q	2	40	462.00	-2051.64	33.00	72.67	0.50	16.00	127.17	8.04	307.50	295.09	0.09	0.02
143	10.62	12	SLE	F	2	40	462.00	-2097.54	33.00	72.67	0.50	16.00	127.17	8.04	307.50	301.69	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 SLU	0.08	1.03	0.95	ø8/20 2 br.	5.03	0.30	4658.62	2.50	40228.20	69658.40	40228.20	8.635
7 SLU	1.03	4.97	3.94	ø8/20 2 br.	5.03	0.30	3075.09	2.50	40228.20	69658.40	40228.20	13.082
7 SLU	4.97	5.92	0.95	ø8/20 2 br.	5.03	0.30	4286.46	2.50	40228.20	69658.40	40228.20	9.385
7 SLU	6.08	7.03	0.95	ø8/20 2 br.	5.03	0.30	3989.16	2.50	40228.20	69658.40	40228.20	10.084
7 SLU	7.03	9.67	2.64	ø8/20 2 br.	5.03	0.30	2678.49	2.50	40228.20	69658.40	40228.20	15.019
7 SLU	9.67	10.62	0.95	ø8/20 2 br.	5.03	0.30	3712.63	2.50	40228.20	69658.40	40228.20	10.835

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7 SLU	0.08	1.03	0.95	ø8/20 2 br.	5.03	0.40
7 SLU	1.03	4.97	3.94	ø8/20 2 br.	5.03	0.40
7 SLU	4.97	5.92	0.95	ø8/20 2 br.	5.03	0.40
7 SLU	6.08	7.03	0.95	ø8/20 2 br.	5.03	0.37
7 SLU	7.03	9.67	2.64	ø8/20 2 br.	5.03	0.37
7 SLU	9.67	10.62	0.95	ø8/20 2 br.	5.03	0.37

Geotecnica

Elenco unità geotecniche

1 TERRENO:
Classificazione: Coesivo
Pesi:
- Peso specifico del terreno naturale: γ = 1963.00 daN/mc
- Peso specifico del terreno saturo: γ_{sat} = 2063.00 daN/mc

Parametri plastici:
- Angolo di attrito efficace: ϕ' = 23.00 grad
- Coesione efficace: c' = 1970.00 daN/mq
- Coesione non drenata: c_u = 6639.00 daN/mq

Caratteristiche litostatiche:
- Grado di sovraconsolidazione: OCR = 1.00
- Coeff. di spinta a riposo: κ_0 = 0.61
  calcolato utilizzando le seguenti opzioni:
  -Calcolo di k0 Jaky(1936)
  -Calcolo di α Kulhawy (1989)

Parametri elastici:
- Modulo elastico normale: E = 492000.00 daN/mq
- Modulo elastico tangenziale: G = 178475.00 daN/mq
- Esponente del parametro tensionale: k_j = 1.00
- Coeff. di Poisson: ν = 0.38
- Modulo edometrico: E_{ed} = 912000.00 daN/mq
- Modulo elastico non drenato: E_u = 535425.00 daN/mq

Elenco colonne stratigrafiche

Colonna stratigrafica numero 1
Posizione: X=0.00 <m> Y=0.00 <m> Z=0.40 <m>
Falda non presente
Simbologia

ϕ' =Angolo di attrito efficace
γ =Peso specifico del terreno naturale
γ_{sat} =Peso specifico del terreno saturo
κ_0 =Coeff. di spinta a riposo
Class. =Classificazione
  Coes. = Coesivo
Crit. =Criterio di progetto
D_r =Densità relativa
I_p =Indice di plasticità
OCR =Grado di sovraconsolidazione
St. =Strato
Unità geotecnica =Unità geotecnica
c_u =Coesione non drenata
c' =Coesione efficace
z =Profondità della superficie superiore dello strato

St.	z <m>	Unità geotecnica	Class.	γ <daN/mc>	γ_{sat} <daN/mc>	D_r	I_p	ϕ' <grad>	c' <daN/mq>	c_u <daN/mq>	OCR	κ_0	Crit.
1	0.00	1 TERRENO	Coes.	1963.00	2063.00			23.00	1970.00	6639.00	1.00	0.61	1

Simbologia
ν =Coeff. di Poisson
Crit. =Criterio di progetto
E =Modulo elastico normale
E_{ed} =Modulo edometrico
E_u =Modulo elastico non drenato
G =Modulo elastico tangenziale
St. =Strato
k_j =Esponente del parametro tensionale
z =Profondità della superficie superiore dello strato

St.	z <m>	E <daN/mq>	G <daN/mq>	k_j	ν	E_{ed} <daN/mq>	E_u <daN/mq>	Crit.
1	0.00	492000.00	178475.00	1.00	0.38	912000.00	535425.00	1

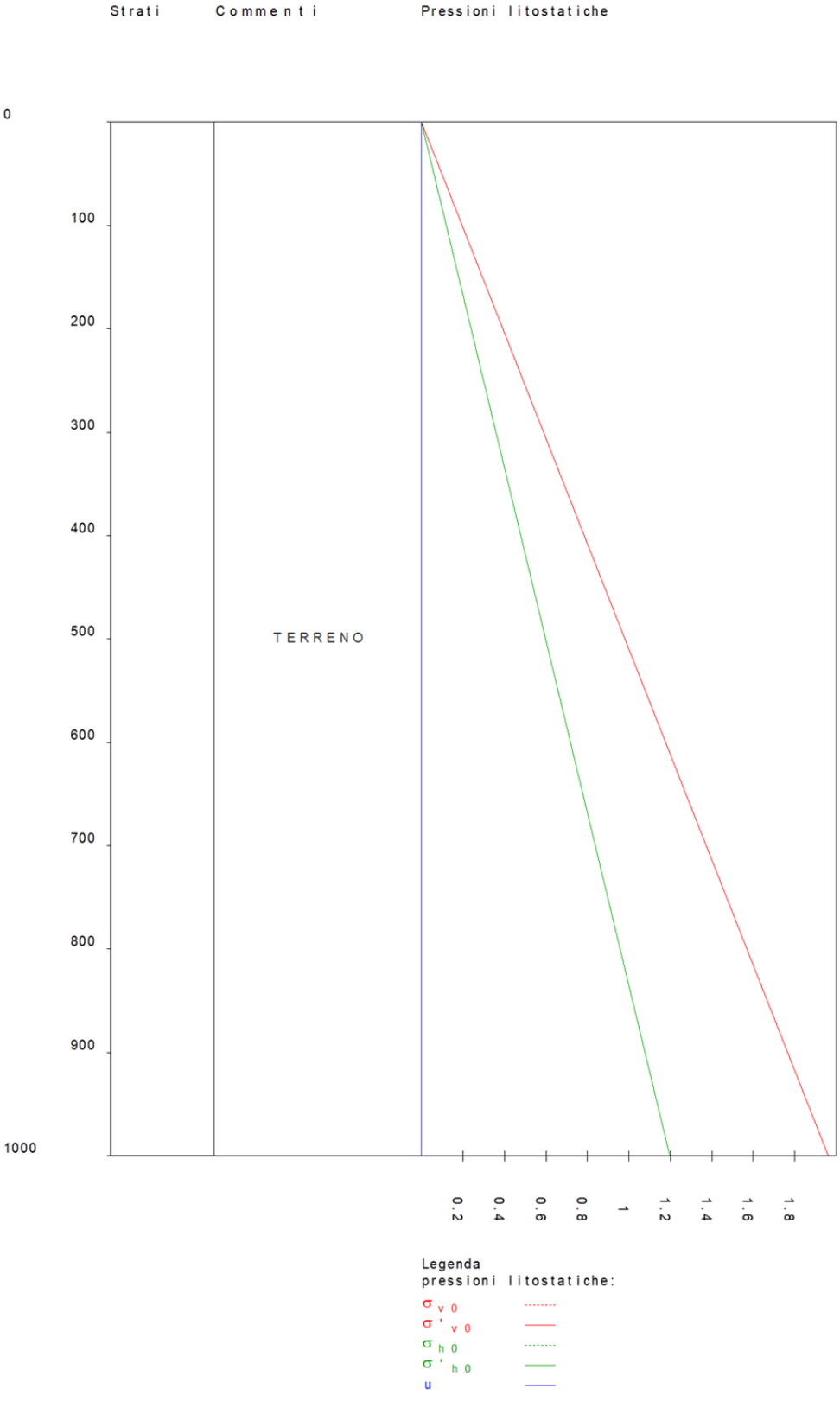

Figura numero 1: Colonna stratigrafica numero 1 STRATIGRAFIA

Le verifiche degli elementi di fondazione sono state effettuate utilizzando l'approccio 2.

Coefficienti parziali per le azioni, per verifiche in condizioni statiche:
Permanenti strutturali, sicurezza a favore γ_A = 1.00;
Permanenti strutturali, sicurezza a sfavore γ_A = 1.30;
Permanenti non strutturali, sicurezza a favore γ_A = 0.00;
Permanenti non strutturali, sicurezza a sfavore γ_A = 1.50;
Variabili, sicurezza a favore γ_A = 0.00;
Variabili, sicurezza a sfavore γ_A = 1.50.

I coefficienti parziali per le azioni sono posti pari all'unità per le verifiche in condizioni sismiche.

Tali coefficienti sono comunque desumibili dalla tabella delle combinazioni delle CCE (Parametri di calcolo).

Coefficienti parziali per i parametri geotecnici:
Tangente dell'angolo di attrito γ_M = 1.00;
Coesione efficace γ_M = 1.00;
Coesione non drenata γ_M = 1.00;

Coefficienti parziali per la resistenza delle fondazioni superficiali:
Capacità portante γ_R = 2.30;
Scorrimento γ_R = 1.10;

Fondazioni superficiali

Simbologia

β = Inclinazione del piano di campagna
γ_r = Peso specifico rappresentativo del terreno di fondazione
η = Inclinazione del piano di posa della fondazione
φ'_r = Angolo di attrito rappresentativo del terreno di fondazione
$\sigma_{v0,f}$ = Pressione verticale alla profondità del piano di posa della fondazione
B = Base della fondazione
B' = Base della fondazione reagente
CC = Numero della combinazione delle condizioni di carico elementari
D = Profondità del piano di posa della fondazione
L = Lunghezza della fondazione (L>B)
L' = Lunghezza della fondazione reagente
Mx = Momento intorno all'asse X
My = Momento intorno all'asse Y
N = Sforzo normale
N_c = Coefficiente di capacità portante relativo alla coesione del terreno di fondazione
N_g = Coefficiente di capacità portante relativo al peso del terreno di fondazione
N_q = Coefficiente di capacità portante relativo al sovraccarico laterale
R_d = Resistenza di progetto (Carico limite)
Sic. = Sicurezza
Tx = Taglio in dir. X
Ty = Taglio in dir. Y
b_c = Fattore di inclinazione del piano di fondazione relativo a coesione
b_g = Fattore di inclinazione del piano di fondazione relativo a peso del terreno
b_q = Fattore di inclinazione del piano di fondazione relativo a sovraccarico laterale
c_{ur} = Coesione non drenata rappresentativa del terreno di fondazione
c'_r = Coesione efficace rappresentativa del terreno di fondazione
d_c = Fattore di profondità relativo alla coesione
d_q = Fattore di profondità relativo al sovraccarico laterale
g_c = Fattore di inclinazione del piano di campagna relativo a coesione
g_g = Fattore di inclinazione del piano di campagna relativo a peso del terreno
g_q = Fattore di inclinazione del piano di campagna relativo a sovraccarico laterale
i_c = Fattore di inclinazione relativo alla coesione
i_g = Fattore di inclinazione relativo al peso del terreno
i_q = Fattore di inclinazione relativo al sovraccarico laterale
q_{lim} = Pressione limite
s_c = Fattore di forma relativo alla coesione
s_g = Fattore di forma relativo al peso del terreno
s_q = Fattore di forma relativo al sovraccarico laterale

Verifiche capacità portante

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 501
B=1.20 <m> L=6.00 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	29341.80	-988.64	-160.90	10.24	-8.73	1.20	6.00	1.05	1.09	0.95	1.25	1.28	1.00	1.00	1.00	85491.00	267442.00	9.11
6	29710.70	-1011.74	-151.71	7.64	-56.88	1.20	6.00	1.05	1.09	0.95	1.25	1.28	1.00	1.00	1.00	85494.20	267349.00	9.00
7	30825.90	-1069.75	-171.74	1.86	-227.34	1.20	5.99	1.05	1.09	0.95	1.25	1.28	1.00	1.00	1.00	85504.40	266981.00	8.66

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	29341.80	-988.64	-160.90	10.24	-8.73	1.20	6.00	1.04	1.31	1.00	1.00	49012.10	153325.00	5.23
6	29710.70	-1011.74	-151.71	7.64	-56.88	1.20	6.00	1.04	1.31	1.00	1.00	49012.30	153266.00	5.16
7	30825.90	-1069.75	-171.74	1.86	-227.34	1.20	5.99	1.04	1.31	1.00	1.00	49013.80	153042.00	4.96

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen
Travata 502
B=1.20 <m> L=12.15 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	68924.30	527.02	-369.34	-518.01	6646.10	1.18	11.96	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83039.60	511554.00	7.42
6	69999.80	525.40	-349.54	-531.39	7164.03	1.18	11.95	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83041.70	510996.00	7.30
7	73352.40	512.05	-353.20	-566.39	7610.34	1.18	11.94	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83041.90	510764.00	6.96

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	68924.30	527.02	-369.34	-518.01	6646.10	1.18	11.96	1.02	1.32	1.00	1.00	48191.40	296877.00	4.31
6	69999.80	525.40	-349.54	-531.39	7164.03	1.18	11.95	1.02	1.32	1.00	1.00	48193.10	296555.00	4.24
7	73352.40	512.05	-353.20	-566.39	7610.34	1.18	11.94	1.02	1.32	1.00	1.00	48194.60	296430.00	4.04

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen
Travata 503
B=1.20 <m> L=10.90 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	73551.20	991.77	5379.81	12.93	-39052.70	1.20	9.84	1.03	1.06	0.97	1.25	1.28	1.00	1.00	1.00	83589.90	428934.00	5.83
6	74275.40	736.54	5200.28	7.06	-36634.90	1.20	9.91	1.03	1.06	0.97	1.25	1.28	1.00	1.00	1.00	83567.60	432167.00	5.82
7	77183.40	617.90	5418.12	27.46	-36840.50	1.20	9.95	1.03	1.06	0.97	1.25	1.28	1.00	1.00	1.00	83557.10	433312.00	5.61

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	73551.20	991.77	5379.81	12.93	-39052.70	1.20	9.84	1.02	1.31	1.00	1.00	48310.60	247901.00	3.37
6	74275.40	736.54	5200.28	7.06	-36634.90	1.20	9.91	1.02	1.31	1.00	1.00	48301.50	249789.00	3.36
7	77183.40	617.90	5418.12	27.46	-36840.50	1.20	9.95	1.02	1.31	1.00	1.00	48300.60	250478.00	3.25

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen
Travata 504
B=1.20 <m> L=12.15 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	81204.60	2150.75	434.97	-106.12	3126.38	1.20	12.07	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83035.90	521900.00	6.43
6	82688.30	2202.08	355.50	-124.02	3418.86	1.20	12.07	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83036.40	521489.00	6.31
7	86968.10	2387.75	327.80	-143.85	4202.35	1.20	12.05	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83038.70	520767.00	5.99

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	81204.60	2150.75	434.97	-106.12	3126.38	1.20	12.07	1.02	1.31	1.00	1.00	48119.50	302443.00	3.72
6	82688.30	2202.08	355.50	-124.02	3418.86	1.20	12.07	1.02	1.31	1.00	1.00	48121.90	302218.00	3.65
7	86968.10	2387.75	327.80	-143.85	4202.35	1.20	12.05	1.02	1.31	1.00	1.00	48124.50	301807.00	3.47

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 505
B=1.20 <m> L=3.00 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'$_r$=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	18657.90	-384.43	-19.27	134.13	-637.63	1.19	2.93	1.09	1.18	0.91	1.25	1.28	1.00	1.00	1.00	90504.00	136772.00	7.33
6	18953.60	-386.94	-22.96	137.64	-658.77	1.19	2.93	1.09	1.18	0.91	1.25	1.28	1.00	1.00	1.00	90507.00	136706.00	7.21
7	19812.20	-396.45	-112.35	146.50	-709.63	1.19	2.93	1.09	1.18	0.91	1.25	1.28	1.00	1.00	1.00	90512.50	136585.00	6.89

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	18657.90	-384.43	-19.27	134.13	-637.63	1.19	2.93	1.08	1.32	1.00	1.00	50931.90	76969.80	4.13
6	18953.60	-386.94	-22.96	137.64	-658.77	1.19	2.93	1.08	1.32	1.00	1.00	50933.80	76932.60	4.06
7	19812.20	-396.45	-112.35	146.50	-709.63	1.19	2.93	1.08	1.32	1.00	1.00	50937.20	76865.00	3.88

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 506
B=1.20 <m> L=6.00 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'$_r$=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	37329.60	-1807.43	-1052.28	46.03	7550.16	1.20	5.60	1.05	1.10	0.95	1.25	1.28	1.00	1.00	1.00	85836.80	250076.00	6.70
6	37667.60	-1853.74	-1039.14	37.46	7344.22	1.20	5.61	1.05	1.10	0.95	1.25	1.28	1.00	1.00	1.00	85824.90	250792.00	6.66
7	39186.60	-1852.11	-1095.98	33.83	7535.32	1.20	5.62	1.05	1.10	0.95	1.25	1.28	1.00	1.00	1.00	85820.80	251074.00	6.41

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	37329.60	-1807.43	-1052.28	46.03	7550.16	1.20	5.60	1.04	1.31	1.00	1.00	49149.30	143191.00	3.84
6	37667.60	-1853.74	-1039.14	37.46	7344.22	1.20	5.61	1.04	1.31	1.00	1.00	49142.20	143600.00	3.81
7	39186.60	-1852.11	-1095.98	33.83	7535.32	1.20	5.62	1.04	1.31	1.00	1.00	49139.30	143760.00	3.67

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 507
B=1.20 <m> L=11.60 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'$_r$=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	98094.60	3794.23	10617.10	-784.91	-78721.50	1.18	9.99	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83513.50	429696.00	4.38
6	97350.90	3428.94	10045.10	-764.75	-77524.80	1.18	10.01	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83510.50	430317.00	4.42
7	99960.20	3427.81	10154.10	-784.01	-80333.20	1.18	9.99	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83514.80	429719.00	4.30

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	98094.60	3794.23	10617.10	-784.91	-78721.50	1.18	9.99	1.02	1.32	1.00	1.00	48371.10	248881.00	2.54
6	97350.90	3428.94	10045.10	-764.75	-77524.80	1.18	10.01	1.02	1.32	1.00	1.00	48368.40	249235.00	2.56
7	99960.20	3427.81	10154.10	-784.01	-80333.20	1.18	9.99	1.02	1.32	1.00	1.00	48369.80	248883.00	2.49

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 508
B=1.20 <m> L=10.30 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	51966.40	-292.29	687.52	216.72	-3304.34	1.19	10.17	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83477.00	439980.00	8.47
6	52789.90	-282.71	659.82	178.01	-3705.06	1.19	10.16	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83483.70	440033.00	8.34
7	55355.00	-282.47	635.22	167.06	-4006.06	1.19	10.16	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83486.30	440118.00	7.95

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	51966.40	-292.29	687.52	216.72	-3304.34	1.19	10.17	1.02	1.32	1.00	1.00	48314.20	254648.00	4.90
6	52789.90	-282.71	659.82	178.01	-3705.06	1.19	10.16	1.02	1.32	1.00	1.00	48307.70	254624.00	4.82
7	55355.00	-282.47	635.22	167.06	-4006.06	1.19	10.16	1.02	1.32	1.00	1.00	48304.60	254649.00	4.60

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 509
B=1.20 <m> L=4.93 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	36819.80	-7165.06	1587.80	157.46	-14993.20	1.19	4.11	1.07	1.13	0.93	1.25	1.28	1.00	1.00	1.00	87690.70	186830.00	5.07
6	36404.60	-7158.13	1504.65	167.44	-14378.90	1.19	4.14	1.07	1.13	0.93	1.25	1.28	1.00	1.00	1.00	87646.00	187743.00	5.16
7	37170.50	-7415.74	1500.88	189.21	-14492.00	1.19	4.15	1.07	1.13	0.93	1.25	1.28	1.00	1.00	1.00	87624.30	188004.00	5.06

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	36819.80	-7165.06	1587.80	157.46	-14993.20	1.19	4.11	1.06	1.32	1.00	1.00	49865.20	106240.00	2.89
6	36404.60	-7158.13	1504.65	167.44	-14378.90	1.19	4.14	1.06	1.32	1.00	1.00	49852.30	106787.00	2.93
7	37170.50	-7415.74	1500.88	189.21	-14492.00	1.19	4.15	1.06	1.32	1.00	1.00	49849.80	106956.00	2.88

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 510
B=1.30 <m> L=18.75 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	220818.00	-9093.04	-7419.71	1988.40	13131.70	1.28	18.63	1.02	1.03	0.98	1.29	1.33	1.00	1.00	1.00	85896.20	892008.00	4.04
6	218804.00	-8179.91	-6654.06	1658.37	18197.60	1.28	18.58	1.02	1.03	0.98	1.29	1.33	1.00	1.00	1.00	85886.40	891615.00	4.07
7	225836.00	-8092.10	-6687.28	1675.62	23276.40	1.29	18.54	1.02	1.03	0.98	1.29	1.33	1.00	1.00	1.00	85888.60	889949.00	3.94

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	220818.00	-9093.04	-7419.71	1988.40	13131.70	1.28	18.63	1.01	1.37	1.00	1.00	49917.10	518375.00	2.35
6	218804.00	-8179.91	-6654.06	1658.37	18197.60	1.28	18.58	1.01	1.37	1.00	1.00	49891.40	517939.00	2.37
7	225836.00	-8092.10	-6687.28	1675.62	23276.40	1.29	18.54	1.01	1.37	1.00	1.00	49889.80	516941.00	2.29

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 511
B=1.30 <m> L=16.85 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	193075.00	-13084.80	8373.17	1632.30	-67373.00	1.28	16.15	1.02	1.04	0.98	1.29	1.33	1.00	1.00	1.00	86158.20	776347.00	4.02
6	189907.00	-12102.40	7574.37	1722.77	-63141.80	1.28	16.18	1.02	1.04	0.98	1.30	1.33	1.00	1.00	1.00	86160.20	777198.00	4.09
7	193492.00	-12102.10	7543.25	1818.28	-59860.80	1.28	16.23	1.02	1.04	0.98	1.30	1.33	1.00	1.00	1.00	86157.70	778999.00	4.03

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	193075.00	-13084.80	8373.17	1632.30	-67373.00	1.28	16.15	1.02	1.37	1.00	1.00	50005.70	450587.00	2.33
6	189907.00	-12102.40	7574.37	1722.77	-63141.80	1.28	16.18	1.02	1.37	1.00	1.00	50015.90	451163.00	2.38
7	193492.00	-12102.10	7543.25	1818.28	-59860.80	1.28	16.23	1.02	1.37	1.00	1.00	50020.00	452259.00	2.34

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 512
B=1.20 <m> L=12.68 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	112079.00	-901.12	-3517.48	-10.30	86422.50	1.20	11.13	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83244.50	483446.00	4.31
6	110851.00	-829.33	-3199.65	17.86	83065.70	1.20	11.18	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83234.00	485217.00	4.38
7	112997.00	-901.13	-3174.89	53.24	82476.60	1.20	11.22	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83223.80	486594.00	4.31

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	112079.00	-901.12	-3517.48	-10.30	86422.50	1.20	11.13	1.02	1.31	1.00	1.00	48182.50	279822.00	2.50
6	110851.00	-829.33	-3199.65	17.86	83065.70	1.20	11.18	1.02	1.31	1.00	1.00	48179.40	280865.00	2.53
7	112997.00	-901.13	-3174.89	53.24	82476.60	1.20	11.22	1.02	1.31	1.00	1.00	48179.20	281695.00	2.49

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 513
B=1.20 <m> L=18.75 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	107932.00	-3087.72	-289.91	1108.53	-3752.33	1.18	18.68	1.01	1.03	0.99	1.25	1.28	1.00	1.00	1.00	82162.10	787071.00	7.29
6	110265.00	-3161.21	-275.45	1119.69	-2644.96	1.18	18.70	1.01	1.03	0.99	1.25	1.28	1.00	1.00	1.00	82160.50	788120.00	7.15
7	116971.00	-3291.24	-254.83	1188.48	-1670.84	1.18	18.72	1.01	1.03	0.99	1.25	1.28	1.00	1.00	1.00	82158.90	788914.00	6.74

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	107932.00	-3087.72	-289.91	1108.53	-3752.33	1.18	18.68	1.01	1.32	1.00	1.00	47900.40	458861.00	4.25
6	110265.00	-3161.21	-275.45	1119.69	-2644.96	1.18	18.70	1.01	1.32	1.00	1.00	47898.40	459463.00	4.17
7	116971.00	-3291.24	-254.83	1188.48	-1670.84	1.18	18.72	1.01	1.32	1.00	1.00	47897.90	459930.00	3.93

Verifiche di capacità portante per rottura generale in condizioni statiche
Metodo utilizzato: Brinch Hansen

Travata 514
B=0.90 <m> L=10.70 <m> D=1.35 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2650.05 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'$_r$=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	31492.20	42.83	-0.00	-697.77	-234.05	0.86	10.69	1.02	1.04	0.98	1.32	1.36	1.00	1.00	1.00	87606.50	348260.00	11.06
6	32440.70	43.03	-0.00	-732.12	-227.16	0.85	10.69	1.02	1.04	0.98	1.32	1.36	1.00	1.00	1.00	87606.70	347954.00	10.73
7	33468.70	44.72	-0.00	-771.07	-216.83	0.85	10.69	1.02	1.04	0.98	1.32	1.36	1.00	1.00	1.00	87606.80	347605.00	10.39

Verifiche in condizioni non drenate
c_{ur}=6639.00 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
5	31492.20	42.83	-0.00	-697.77	-234.05	0.86	10.69	1.02	1.40	1.00	1.00	51285.90	203875.00	6.47
6	32440.70	43.03	-0.00	-732.12	-227.16	0.85	10.69	1.02	1.40	1.00	1.00	51291.10	203717.00	6.28
7	33468.70	44.72	-0.00	-771.07	-216.83	0.85	10.69	1.02	1.40	1.00	1.00	51297.10	203536.00	6.08

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 501
B=1.20 <m> L=6.00 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'$_r$=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	24521.00	-8358.33	-2769.09	9.37	-4.60	1.20	6.00	1.05	1.09	0.95	1.25	1.28	1.00	1.00	1.00	85490.60	267436.00	10.91
2	24521.00	-6194.60	481.54	9.37	-4.60	1.20	6.00	1.05	1.09	0.95	1.25	1.28	1.00	1.00	1.00	85490.60	267436.00	10.91
3	24521.00	-6360.35	-5856.52	9.37	-4.60	1.20	6.00	1.05	1.09	0.95	1.25	1.28	1.00	1.00	1.00	85490.60	267436.00	10.91
4	24521.00	-2484.06	-5252.27	9.37	-4.60	1.20	6.00	1.05	1.09	0.95	1.25	1.28	1.00	1.00	1.00	85490.60	267436.00	10.91

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	24521.00	-8358.33	-2769.09	9.37	-4.60	1.20	6.00	1.04	1.31	1.00	1.00	49012.40	153323.00	6.25
2	24521.00	-6194.60	481.54	9.37	-4.60	1.20	6.00	1.04	1.31	1.00	1.00	49012.40	153323.00	6.25
3	24521.00	-6360.35	-5856.52	9.37	-4.60	1.20	6.00	1.04	1.31	1.00	1.00	49012.40	153323.00	6.25
4	24521.00	-2484.06	-5252.27	9.37	-4.60	1.20	6.00	1.04	1.31	1.00	1.00	49012.40	153323.00	6.25

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 502
B=1.20 <m> L=12.15 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'$_r$=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	57442.50	4458.11	-3084.55	-427.39	5350.49	1.19	11.96	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83038.50	511894.00	8.91
2	57442.50	3812.16	389.70	-427.39	5350.49	1.19	11.96	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83038.50	511894.00	8.91
3	57442.50	2631.02	-6413.73	-427.39	5350.49	1.19	11.96	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83038.50	511894.00	8.91
4	57442.50	419.00	-5793.06	-427.39	5350.49	1.19	11.96	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83038.50	511894.00	8.91

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	57442.50	4458.11	-3084.55	-427.39	5350.49	1.19	11.96	1.02	1.32	1.00	1.00	48190.10	297070.00	5.17
2	57442.50	3812.16	389.70	-427.39	5350.49	1.19	11.96	1.02	1.32	1.00	1.00	48190.10	297070.00	5.17
3	57442.50	2631.02	-6413.73	-427.39	5350.49	1.19	11.96	1.02	1.32	1.00	1.00	48190.10	297070.00	5.17
4	57442.50	419.00	-5793.06	-427.39	5350.49	1.19	11.96	1.02	1.32	1.00	1.00	48190.10	297070.00	5.17

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 503
B=1.20 <m> L=10.90 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	60449.70	12361.80	13827.00	14.19	-29625.60	1.20	9.92	1.03	1.06	0.97	1.25	1.28	1.00	1.00	1.00	83565.20	432328.00	7.15
2	60449.70	10549.50	5353.13	14.19	-29625.60	1.20	9.92	1.03	1.06	0.97	1.25	1.28	1.00	1.00	1.00	83565.20	432328.00	7.15
3	60449.70	6907.73	19929.40	14.19	-29625.60	1.20	9.92	1.03	1.06	0.97	1.25	1.28	1.00	1.00	1.00	83565.20	432328.00	7.15
4	60449.70	420.42	16686.20	14.19	-29625.60	1.20	9.92	1.03	1.06	0.97	1.25	1.28	1.00	1.00	1.00	83565.20	432328.00	7.15

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	60449.70	12361.80	13827.00	14.19	-29625.60	1.20	9.92	1.02	1.31	1.00	1.00	48302.20	249893.00	4.13
2	60449.70	10549.50	5353.13	14.19	-29625.60	1.20	9.92	1.02	1.31	1.00	1.00	48302.20	249893.00	4.13
3	60449.70	6907.73	19929.40	14.19	-29625.60	1.20	9.92	1.02	1.31	1.00	1.00	48302.20	249893.00	4.13
4	60449.70	420.42	16686.20	14.19	-29625.60	1.20	9.92	1.02	1.31	1.00	1.00	48302.20	249893.00	4.13

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 504
B=1.20 <m> L=12.15 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	67439.10	9093.88	40033.40	-96.57	2142.74	1.20	12.09	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83032.80	522353.00	7.75
2	67439.10	6409.88	-2274.75	-96.57	2142.74	1.20	12.09	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83032.80	522353.00	7.75
3	67439.10	8040.02	76464.70	-96.57	2142.74	1.20	12.09	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83032.80	522353.00	7.75
4	67439.10	4452.71	65383.30	-96.57	2142.74	1.20	12.09	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83032.80	522353.00	7.75

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	67439.10	9093.88	40033.40	-96.57	2142.74	1.20	12.09	1.02	1.31	1.00	1.00	48119.80	302718.00	4.49
2	67439.10	6409.88	-2274.75	-96.57	2142.74	1.20	12.09	1.02	1.31	1.00	1.00	48119.80	302718.00	4.49
3	67439.10	8040.02	76464.70	-96.57	2142.74	1.20	12.09	1.02	1.31	1.00	1.00	48119.80	302718.00	4.49
4	67439.10	4452.71	65383.30	-96.57	2142.74	1.20	12.09	1.02	1.31	1.00	1.00	48119.80	302718.00	4.49

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 505
B=1.20 <m> L=3.00 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	15526.90	-1363.42	-2627.54	112.97	-533.20	1.19	2.93	1.09	1.18	0.91	1.25	1.28	1.00	1.00	1.00	90504.00	136737.00	8.81
2	15526.90	-605.59	-499.24	112.97	-533.20	1.19	2.93	1.09	1.18	0.91	1.25	1.28	1.00	1.00	1.00	90504.00	136737.00	8.81
3	15526.90	-1776.89	-4017.63	112.97	-533.20	1.19	2.93	1.09	1.18	0.91	1.25	1.28	1.00	1.00	1.00	90504.00	136737.00	8.81
4	15526.90	-1373.45	-3080.83	112.97	-533.20	1.19	2.93	1.09	1.18	0.91	1.25	1.28	1.00	1.00	1.00	90504.00	136737.00	8.81

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	15526.90	-1363.42	-2627.54	112.97	-533.20	1.19	2.93	1.08	1.32	1.00	1.00	50932.80	76951.20	4.96
2	15526.90	-605.59	-499.24	112.97	-533.20	1.19	2.93	1.08	1.32	1.00	1.00	50932.80	76951.20	4.96
3	15526.90	-1776.89	-4017.63	112.97	-533.20	1.19	2.93	1.08	1.32	1.00	1.00	50932.80	76951.20	4.96
4	15526.90	-1373.45	-3080.83	112.97	-533.20	1.19	2.93	1.08	1.32	1.00	1.00	50932.80	76951.20	4.96

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 506
B=1.20 <m> L=6.00 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	30775.70	-8150.89	-3758.16	28.41	5819.92	1.20	5.62	1.05	1.10	0.95	1.25	1.28	1.00	1.00	1.00	85814.50	251316.00	8.17
2	30775.70	-6651.87	-1112.01	28.41	5819.92	1.20	5.62	1.05	1.10	0.95	1.25	1.28	1.00	1.00	1.00	85814.50	251316.00	8.17
3	30775.70	-5801.85	-5712.58	28.41	5819.92	1.20	5.62	1.05	1.10	0.95	1.25	1.28	1.00	1.00	1.00	85814.50	251316.00	8.17
4	30775.70	-2289.35	-4741.65	28.41	5819.92	1.20	5.62	1.05	1.10	0.95	1.25	1.28	1.00	1.00	1.00	85814.50	251316.00	8.17

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	30775.70	-8150.89	-3758.16	28.41	5819.92	1.20	5.62	1.04	1.31	1.00	1.00	49137.60	143904.00	4.68
2	30775.70	-6651.87	-1112.01	28.41	5819.92	1.20	5.62	1.04	1.31	1.00	1.00	49137.60	143904.00	4.68
3	30775.70	-5801.85	-5712.58	28.41	5819.92	1.20	5.62	1.04	1.31	1.00	1.00	49137.60	143904.00	4.68
4	30775.70	-2289.35	-4741.65	28.41	5819.92	1.20	5.62	1.04	1.31	1.00	1.00	49137.60	143904.00	4.68

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 507
B=1.20 <m> L=11.60 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	79386.00	11352.70	30930.10	-615.58	-61914.30	1.18	10.04	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83501.40	431757.00	5.44
2	79386.00	9169.86	4221.57	-615.58	-61914.30	1.18	10.04	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83501.40	431757.00	5.44
3	79386.00	8701.68	55456.90	-615.58	-61914.30	1.18	10.04	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83501.40	431757.00	5.44
4	79386.00	4246.60	49771.40	-615.58	-61914.30	1.18	10.04	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83501.40	431757.00	5.44

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	79386.00	11352.70	30930.10	-615.58	-61914.30	1.18	10.04	1.02	1.32	1.00	1.00	48363.90	250073.00	3.15
2	79386.00	9169.86	4221.57	-615.58	-61914.30	1.18	10.04	1.02	1.32	1.00	1.00	48363.90	250073.00	3.15
3	79386.00	8701.68	55456.90	-615.58	-61914.30	1.18	10.04	1.02	1.32	1.00	1.00	48363.90	250073.00	3.15
4	79386.00	4246.60	49771.40	-615.58	-61914.30	1.18	10.04	1.02	1.32	1.00	1.00	48363.90	250073.00	3.15

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 508
B=1.20 <m> L=10.30 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	43224.90	-9227.46	2064.47	133.22	-2918.79	1.19	10.16	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83483.30	440475.00	10.19
2	43224.90	-8873.37	-290.16	133.22	-2918.79	1.19	10.16	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83483.30	440475.00	10.19
3	43224.90	-3463.79	4575.27	133.22	-2918.79	1.19	10.16	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83483.30	440475.00	10.19
4	43224.90	1830.59	4372.77	133.22	-2918.79	1.19	10.16	1.03	1.05	0.97	1.25	1.28	1.00	1.00	1.00	83483.30	440475.00	10.19

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	43224.90	-9227.46	2064.47	133.22	-2918.79	1.19	10.16	1.02	1.32	1.00	1.00	48304.20	254863.00	5.90
2	43224.90	-8873.37	-290.16	133.22	-2918.79	1.19	10.16	1.02	1.32	1.00	1.00	48304.20	254863.00	5.90
3	43224.90	-3463.79	4575.27	133.22	-2918.79	1.19	10.16	1.02	1.32	1.00	1.00	48304.20	254863.00	5.90
4	43224.90	1830.59	4372.77	133.22	-2918.79	1.19	10.16	1.02	1.32	1.00	1.00	48304.20	254863.00	5.90

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 509
B=1.20 <m> L=4.93 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	29723.60	-9745.26	1875.69	130.81	-11570.30	1.19	4.15	1.07	1.13	0.93	1.25	1.28	1.00	1.00	1.00	87628.40	188286.00	6.33
2	29723.60	-8942.68	1170.75	130.81	-11570.30	1.19	4.15	1.07	1.13	0.93	1.25	1.28	1.00	1.00	1.00	87628.40	188286.00	6.33
3	29723.60	-8158.05	2483.53	130.81	-11570.30	1.19	4.15	1.07	1.13	0.93	1.25	1.28	1.00	1.00	1.00	87628.40	188286.00	6.33
4	29723.60	-5995.01	2299.61	130.81	-11570.30	1.19	4.15	1.07	1.13	0.93	1.25	1.28	1.00	1.00	1.00	87628.40	188286.00	6.33

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	29723.60	-9745.26	1875.69	130.81	-11570.30	1.19	4.15	1.06	1.32	1.00	1.00	49843.70	107099.00	3.60
2	29723.60	-8942.68	1170.75	130.81	-11570.30	1.19	4.15	1.06	1.32	1.00	1.00	49843.70	107099.00	3.60
3	29723.60	-8158.05	2483.53	130.81	-11570.30	1.19	4.15	1.06	1.32	1.00	1.00	49843.70	107099.00	3.60
4	29723.60	-5995.01	2299.61	130.81	-11570.30	1.19	4.15	1.06	1.32	1.00	1.00	49843.70	107099.00	3.60

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 510
B=1.30 <m> L=18.75 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	177129.00	-78466.70	-16409.60	1291.95	14034.20	1.29	18.59	1.02	1.03	0.98	1.29	1.33	1.00	1.00	1.00	85882.80	892352.00	5.04
2	177129.00	-52935.80	-8016.66	1291.95	14034.20	1.29	18.59	1.02	1.03	0.98	1.29	1.33	1.00	1.00	1.00	85882.80	892352.00	5.04
3	177129.00	-66899.90	-21340.10	1291.95	14034.20	1.29	18.59	1.02	1.03	0.98	1.29	1.33	1.00	1.00	1.00	85882.80	892352.00	5.04
4	177129.00	-31454.60	-17173.20	1291.95	14034.20	1.29	18.59	1.02	1.03	0.98	1.29	1.33	1.00	1.00	1.00	85882.80	892352.00	5.04

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	177129.00	-78466.70	-16409.60	1291.95	14034.20	1.29	18.59	1.01	1.37	1.00	1.00	49885.70	518330.00	2.93
2	177129.00	-52935.80	-8016.66	1291.95	14034.20	1.29	18.59	1.01	1.37	1.00	1.00	49885.70	518330.00	2.93
3	177129.00	-66899.90	-21340.10	1291.95	14034.20	1.29	18.59	1.01	1.37	1.00	1.00	49885.70	518330.00	2.93
4	177129.00	-31454.60	-17173.20	1291.95	14034.20	1.29	18.59	1.01	1.37	1.00	1.00	49885.70	518330.00	2.93

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 511
B=1.30 <m> L=16.85 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	154738.00	-60438.90	18223.30	1393.99	-51640.40	1.28	16.18	1.02	1.04	0.98	1.29	1.33	1.00	1.00	1.00	86159.90	777152.00	5.02
2	154738.00	-47246.10	9151.79	1393.99	-51640.40	1.28	16.18	1.02	1.04	0.98	1.29	1.33	1.00	1.00	1.00	86159.90	777152.00	5.02
3	154738.00	-44914.30	23433.10	1393.99	-51640.40	1.28	16.18	1.02	1.04	0.98	1.29	1.33	1.00	1.00	1.00	86159.90	777152.00	5.02
4	154738.00	-18414.80	18827.10	1393.99	-51640.40	1.28	16.18	1.02	1.04	0.98	1.29	1.33	1.00	1.00	1.00	86159.90	777152.00	5.02

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	154738.00	-60438.90	18223.30	1393.99	-51640.40	1.28	16.18	1.02	1.37	1.00	1.00	50014.90	451128.00	2.92
2	154738.00	-47246.10	9151.79	1393.99	-51640.40	1.28	16.18	1.02	1.37	1.00	1.00	50014.90	451128.00	2.92
3	154738.00	-44914.30	23433.10	1393.99	-51640.40	1.28	16.18	1.02	1.37	1.00	1.00	50014.90	451128.00	2.92
4	154738.00	-18414.80	18827.10	1393.99	-51640.40	1.28	16.18	1.02	1.37	1.00	1.00	50014.90	451128.00	2.92

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 512
B=1.20 <m> L=12.68 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	90623.00	-4983.68	-20678.00	-1.61	67026.30	1.20	11.20	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83229.90	486154.00	5.36
2	90623.00	-3487.15	7664.47	-1.61	67026.30	1.20	11.20	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83229.90	486154.00	5.36
3	90623.00	-4240.99	-50988.20	-1.61	67026.30	1.20	11.20	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83229.90	486154.00	5.36
4	90623.00	-2107.87	-48626.00	-1.61	67026.30	1.20	11.20	1.02	1.05	0.98	1.25	1.28	1.00	1.00	1.00	83229.90	486154.00	5.36

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	90623.00	-4983.68	-20678.00	-1.61	67026.30	1.20	11.20	1.02	1.31	1.00	1.00	48176.30	281403.00	3.11
2	90623.00	-3487.15	7664.47	-1.61	67026.30	1.20	11.20	1.02	1.31	1.00	1.00	48176.30	281403.00	3.11
3	90623.00	-4240.99	-50988.20	-1.61	67026.30	1.20	11.20	1.02	1.31	1.00	1.00	48176.30	281403.00	3.11
4	90623.00	-2107.87	-48626.00	-1.61	67026.30	1.20	11.20	1.02	1.31	1.00	1.00	48176.30	281403.00	3.11

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 513
B=1.20 <m> L=18.75 <m> D=1.20 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2355.60 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	89133.50	-8784.80	-6169.03	902.42	-2324.39	1.18	18.70	1.01	1.03	0.99	1.25	1.28	1.00	1.00	1.00	82160.90	787988.00	8.84
2	89133.50	-7259.72	2523.66	902.42	-2324.39	1.18	18.70	1.01	1.03	0.99	1.25	1.28	1.00	1.00	1.00	82160.90	787988.00	8.84
3	89133.50	-6744.09	-15200.90	902.42	-2324.39	1.18	18.70	1.01	1.03	0.99	1.25	1.28	1.00	1.00	1.00	82160.90	787988.00	8.84
4	89133.50	-3469.82	-14249.80	902.42	-2324.39	1.18	18.70	1.01	1.03	0.99	1.25	1.28	1.00	1.00	1.00	82160.90	787988.00	8.84

Verifiche in condizioni non drenate
c_{ur}=6639.01 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	89133.50	-8784.80	-6169.03	902.42	-2324.39	1.18	18.70	1.01	1.32	1.00	1.00	47898.30	459382.00	5.15
2	89133.50	-7259.72	2523.66	902.42	-2324.39	1.18	18.70	1.01	1.32	1.00	1.00	47898.30	459382.00	5.15
3	89133.50	-6744.09	-15200.90	902.42	-2324.39	1.18	18.70	1.01	1.32	1.00	1.00	47898.30	459382.00	5.15
4	89133.50	-3469.82	-14249.80	902.42	-2324.39	1.18	18.70	1.01	1.32	1.00	1.00	47898.30	459382.00	5.15

Verifiche di capacità portante per rottura generale in condizioni sismiche
Metodo utilizzato: Condizioni statiche

Travata 514
B=0.90 <m> L=10.70 <m> D=1.35 <m> β=0.00 <grad> η=0.00 <grad> γ_r=1963.00 <daN/mc>
$\sigma_{v0,f}$=2650.05 <daN/mq>

Verifiche in condizioni drenate
φ'_r=23.00 <grad> c'_r=1970.00 <daN/mq>
N_q=8.66 N_c=18.05 N_g=8.20 g_q=1.00 g_c=1.00 g_g=1.00
b_q=1.00 b_c=1.00 b_g=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_q	s_c	s_g	d_q	d_c	i_q	i_c	i_g	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	25844.70	173.62	-184.16	-556.96	-201.75	0.86	10.68	1.02	1.04	0.98	1.32	1.36	1.00	1.00	1.00	87606.30	348728.00	13.49
2	25844.70	32.98	49.35	-556.96	-201.75	0.86	10.68	1.02	1.04	0.98	1.32	1.36	1.00	1.00	1.00	87606.30	348728.00	13.49
3	25844.70	289.66	-409.40	-556.96	-201.75	0.86	10.68	1.02	1.04	0.98	1.32	1.36	1.00	1.00	1.00	87606.30	348728.00	13.49
4	25844.70	248.49	-368.96	-556.96	-201.75	0.86	10.68	1.02	1.04	0.98	1.32	1.36	1.00	1.00	1.00	87606.30	348728.00	13.49

Verifiche in condizioni non drenate
c_{ur}=6639.00 <daN/mq>
N_q=1.00 N_c=5.14 g_c=1.00 b_c=1.00

CC	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>	B' <m>	L' <m>	s_c	d_c	i_q	i_c	q_{lim} <daN/mq>	R_d <daN>	Sic.
1	25844.70	173.62	-184.16	-556.96	-201.75	0.86	10.68	1.02	1.40	1.00	1.00	51278.10	204119.00	7.90
2	25844.70	32.98	49.35	-556.96	-201.75	0.86	10.68	1.02	1.40	1.00	1.00	51278.10	204119.00	7.90
3	25844.70	289.66	-409.40	-556.96	-201.75	0.86	10.68	1.02	1.40	1.00	1.00	51278.10	204119.00	7.90
4	25844.70	248.49	-368.96	-556.96	-201.75	0.86	10.68	1.02	1.40	1.00	1.00	51278.10	204119.00	7.90

Cedimenti

Metodo utilizzato: Metodo edometrico

Simbologia

B = Base della fondazione
CC = Numero della combinazione delle condizioni di carico elementari
Ced = Cedimento calcolato
L = Lunghezza della fondazione (L>B)
N = Sforzo normale
q_{es} = Pressione di esercizio

Travata 501
B=1.20 <m> L=6.00 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	24521.00	3405.69	0.69
1	22291.80	3096.08	0.49
2	24521.00	3405.69	0.69
2	22291.80	3096.08	0.49
3	24521.00	3405.69	0.69
3	22291.80	3096.08	0.49
4	24521.00	3405.69	0.69
4	22291.80	3096.08	0.49
5	29341.80	4075.25	1.14
6	29710.70	4126.48	1.17
7	30825.90	4281.38	1.27
8	22533.90	3129.70	0.51
9	22779.80	3163.86	0.53
10	23523.30	3267.13	0.60
11	22291.20	3096.00	0.49
12	22389.50	3109.65	0.50
13	22291.80	3096.08	0.49
14	22291.80	3096.08	0.49

Travata 502
B=1.20 <m> L=12.15 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	57442.50	3939.82	1.09
1	52220.50	3581.65	0.84
2	57442.50	3939.82	1.09
2	52220.50	3581.65	0.84
3	57442.50	3939.82	1.09
3	52220.50	3581.65	0.84
4	57442.50	3939.82	1.09
4	52220.50	3581.65	0.84
5	68924.30	4727.32	1.63
6	69999.80	4801.08	1.68
7	73352.40	5031.03	1.84
8	52914.80	3629.28	0.88
9	53631.90	3678.45	0.91
10	55866.90	3831.75	1.01
11	52217.20	3581.43	0.84
12	52503.40	3601.06	0.86
13	52220.50	3581.65	0.84
14	52220.50	3581.65	0.84

Travata 503
B=1.20 <m> L=10.90 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	60449.70	4621.54	1.55
1	54954.30	4201.40	1.26

2	60449.70	4621.54	1.55
2	54954.30	4201.40	1.26
3	60449.70	4621.54	1.55
3	54954.30	4201.40	1.26
4	60449.70	4621.54	1.55
4	54954.30	4201.40	1.26
5	73551.20	5623.18	2.24
6	74275.40	5678.55	2.28
7	77183.40	5900.87	2.43
8	56266.60	4301.73	1.33
9	56749.40	4338.64	1.36
10	58688.00	4486.85	1.46
11	55072.80	4210.46	1.27
12	55289.60	4227.04	1.28
13	54954.30	4201.40	1.26
14	54954.30	4201.40	1.26

Travata 504
B=1.20 <m> L=12.15 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	67439.10	4625.45	1.56
1	61308.20	4204.95	1.27
2	67439.10	4625.45	1.56
2	61308.20	4204.95	1.27
3	67439.10	4625.45	1.56
3	61308.20	4204.95	1.27
4	67439.10	4625.45	1.56
4	61308.20	4204.95	1.27
5	81204.60	5569.59	2.21
6	82688.30	5671.35	2.28
7	86968.10	5964.89	2.48
8	62309.50	4273.63	1.32
9	63298.60	4341.47	1.36
10	66151.80	4537.16	1.50
11	61310.00	4205.07	1.27
12	61706.00	4232.23	1.29
13	61308.20	4204.95	1.27
14	61308.20	4204.95	1.27

Travata 505
B=1.20 <m> L=3.00 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	15526.90	4313.03	1.18
1	14115.40	3920.94	0.95
2	15526.90	4313.03	1.18
2	14115.40	3920.94	0.95
3	15526.90	4313.03	1.18
3	14115.40	3920.94	0.95
4	15526.90	4313.03	1.18
4	14115.40	3920.94	0.95
5	18657.90	5182.75	1.71
6	18953.60	5264.88	1.76
7	19812.20	5503.38	1.90
8	14319.80	3977.72	0.98
9	14516.90	4032.48	1.01
10	15089.30	4191.48	1.11
11	14116.40	3921.23	0.95
12	14195.50	3943.19	0.96
13	14115.40	3920.94	0.95
14	14115.40	3920.94	0.95

Travata 506
B=1.20 <m> L=6.00 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	30775.70	4274.41	1.27
1	27977.90	3885.82	1.01
2	30775.70	4274.41	1.27
2	27977.90	3885.82	1.01
3	30775.70	4274.41	1.27
3	27977.90	3885.82	1.01
4	30775.70	4274.41	1.27
4	27977.90	3885.82	1.01
5	37329.60	5184.67	1.87
6	37667.60	5231.61	1.90
7	39186.60	5442.59	2.04
8	28574.40	3968.67	1.07
9	28799.70	3999.96	1.09
10	29812.40	4140.61	1.18

11	28031.00	3893.19	1.02
12	28131.70	3907.18	1.02
13	27977.90	3885.82	1.01
14	27977.90	3885.82	1.01

Travata 507
B=1.20 <m> L=11.60 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	79386.00	5703.02	2.30
1	72169.10	5184.56	1.94
2	79386.00	5703.02	2.30
2	72169.10	5184.56	1.94
3	79386.00	5703.02	2.30
3	72169.10	5184.56	1.94
4	79386.00	5703.02	2.30
4	72169.10	5184.56	1.94
5	98094.60	7047.03	3.22
6	97350.90	6993.60	3.18
7	99960.20	7181.05	3.31
8	74675.80	5364.64	2.06
9	74180.00	5329.02	2.04
10	75919.50	5453.99	2.13
11	72598.10	5215.38	1.96
12	72485.50	5207.29	1.96
13	72169.10	5184.56	1.94
14	72169.10	5184.56	1.94

Travata 508
B=1.20 <m> L=10.30 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	43224.90	3497.16	0.78
1	39295.40	3179.24	0.56
2	43224.90	3497.16	0.78
2	39295.40	3179.24	0.56
3	43224.90	3497.16	0.78
3	39295.40	3179.24	0.56
4	43224.90	3497.16	0.78
4	39295.40	3179.24	0.56
5	51966.40	4204.40	1.26
6	52789.90	4271.03	1.31
7	55355.00	4478.56	1.45
8	39879.60	3226.51	0.60
9	40428.60	3270.92	0.63
10	42138.70	3409.28	0.72
11	39300.40	3179.65	0.56
12	39521.00	3197.49	0.58
13	39295.40	3179.24	0.56
14	39295.40	3179.24	0.56

Travata 509
B=1.20 <m> L=4.93 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	29723.60	5027.04	1.73
1	27021.40	4570.03	1.43
2	29723.60	5027.04	1.73
2	27021.40	4570.03	1.43
3	29723.60	5027.04	1.73
3	27021.40	4570.03	1.43
4	29723.60	5027.04	1.73
4	27021.40	4570.03	1.43
5	36819.80	6227.20	2.51
6	36404.60	6156.97	2.46
7	37170.50	6286.50	2.55
8	28005.30	4736.44	1.54
9	27728.50	4689.61	1.51
10	28239.10	4775.97	1.57
11	27201.50	4600.49	1.45
12	27126.80	4587.86	1.45
13	27021.40	4570.03	1.43
14	27021.40	4570.03	1.43

Travata 510
B=1.30 <m> L=18.75 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	177129.00	7266.82	3.54
1	161026.00	6606.20	3.07

2	177129.00	7266.82	3.54
2	161026.00	6606.20	3.07
3	177129.00	7266.82	3.54
3	161026.00	6606.20	3.07
4	177129.00	7266.82	3.54
4	161026.00	6606.20	3.07
5	220818.00	9059.21	4.84
6	218804.00	8976.56	4.78
7	225836.00	9265.06	4.98
8	167759.00	6882.44	3.27
9	166416.00	6827.33	3.23
10	171104.00	7019.67	3.36
11	162180.00	6653.53	3.10
12	161873.00	6640.96	3.09
13	161026.00	6606.20	3.07
14	161026.00	6606.20	3.07

Travata 511
B=1.30 <m> L=16.85 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	154738.00	7064.04	3.39
1	140671.00	6421.85	2.93
2	154738.00	7064.04	3.39
2	140671.00	6421.85	2.93
3	154738.00	7064.04	3.39
3	140671.00	6421.85	2.93
4	154738.00	7064.04	3.39
4	140671.00	6421.85	2.93
5	193075.00	8814.18	4.65
6	189907.00	8669.59	4.55
7	193492.00	8833.23	4.67
8	146558.00	6690.63	3.12
9	144447.00	6594.24	3.05
10	146837.00	6703.33	3.13
11	141813.00	6474.02	2.97
12	141197.00	6445.90	2.95
13	140671.00	6421.85	2.93
14	140671.00	6421.85	2.93

Travata 512
B=1.20 <m> L=12.68 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	90623.00	5958.12	2.48
1	82384.50	5416.47	2.11
2	90623.00	5958.12	2.48
2	82384.50	5416.47	2.11
3	90623.00	5958.12	2.48
3	82384.50	5416.47	2.11
4	90623.00	5958.12	2.48
4	82384.50	5416.47	2.11
5	112079.00	7368.78	3.45
6	110851.00	7288.05	3.39
7	112997.00	7429.14	3.49
8	85279.60	5606.81	2.24
9	84461.00	5552.99	2.20
10	85891.70	5647.05	2.26
11	82915.10	5451.35	2.13
12	82693.70	5436.80	2.12
13	82384.50	5416.47	2.11
14	82384.50	5416.47	2.11

Travata 513
B=1.20 <m> L=18.75 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	89133.50	3961.49	1.11
1	81030.40	3601.35	0.86
2	89133.50	3961.49	1.11
2	81030.40	3601.35	0.86
3	89133.50	3961.49	1.11
3	81030.40	3601.35	0.86
4	89133.50	3961.49	1.11
4	81030.40	3601.35	0.86
5	107932.00	4796.97	1.69
6	110265.00	4900.65	1.76
7	116971.00	5198.73	1.97
8	82740.80	3677.37	0.92
9	84296.00	3746.49	0.96
10	88767.30	3945.21	1.10

11	81052.60	3602.34	0.86
12	81679.10	3630.18	0.88
13	81030.40	3601.35	0.86
14	81030.40	3601.35	0.86

Travata 514
B=0.90 <m> L=10.70 <m>

CC	N <daN>	q_{es} <daN/mq>	Ced <cm>
1	25844.70	2683.77	0.02
1	23495.10	2439.79	0.00
2	25844.70	2683.77	0.02
2	23495.10	2439.79	0.00
3	25844.70	2683.77	0.02
3	23495.10	2439.79	0.00
4	25844.70	2683.77	0.02
4	23495.10	2439.79	0.00
5	31492.20	3270.22	0.36
6	32440.70	3368.71	0.41
7	33468.70	3475.46	0.48
8	24127.50	2505.45	0.00
9	24759.80	2571.11	0.00
10	25445.10	2642.28	0.00
11	23495.10	2439.79	0.00
12	23748.10	2466.05	0.00
13	23495.10	2439.79	0.00
14	23495.10	2439.79	0.00