Comune di Desenzano del Garda
Provincia di Brescia

COMMITTENTE

Finanziaria Internazionale Investments SGR s.p.a. Fondo Finint Fenice
Via Vittorio Alfieri 1, Conegliano (TV)

PROGETTO

Progettazione strutturale esecutiva dell'adeguamento sismico, con variazione della classe d'uso da II a IV dell'immobile ubicato in via Calamar 20/22, Desenzano del Garda (BS)

FASE

PROGETTO ESECUTIVO

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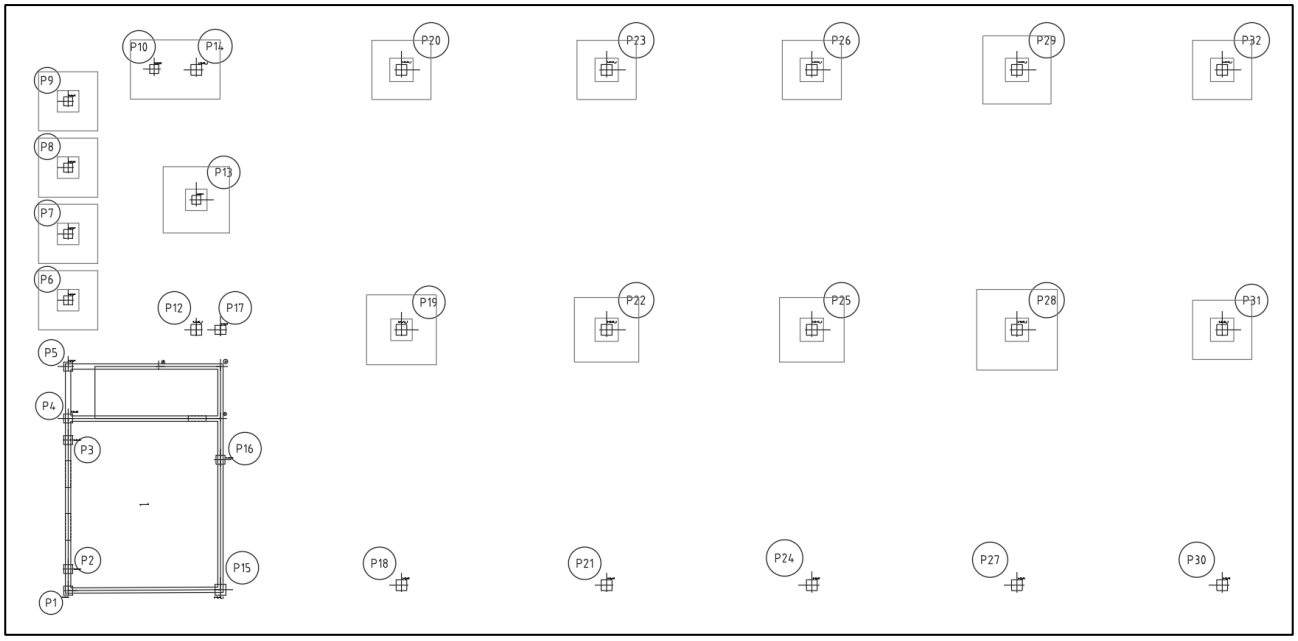
1 PILASTRI ESISTENTI

Le verifiche SLV che si riportano di seguito fanno riferimento ad una sollecitazione sismica pari al 100% di quella prevista dalla normativa.
Come riportato nella relazione principale, la normativa richiede per l'adeguamento il raggiungimento di ζ≥0,80, dove ζ è il rapporto tra l'azione sismica massima sopportabile dalla struttura e l'azione sismica massima che si utilizzerebbe nel progetto di una nuova costruzione.
Per i pilastri che vengono parzialmente inglobati all'interno di setti in c.a. si riporteranno le verifiche delle sezioni che emergono da tali elementi. Non vengono riportate le verifiche dei pilastri completamente collegati ai setti in c.a. in quanto non significative.



1.1 VERIFICHE PILASTRATE C.A.

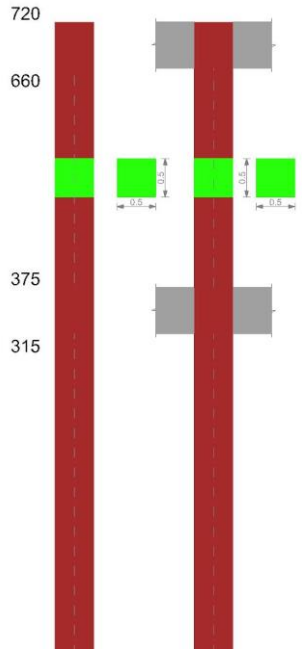
Le unità di misura elencate nel capitolo sono in [m, kN] ove non espressamente specificato.

***Q.inf.**: quota inferiore. [m]*
***Q.sup.**: quota superiore. [m]*
***Sezione**: sezione impiegata.*
***Esistente**: campata esistente.*
***Secondaria**: campata secondaria.*
***Dissipativa**: campata dissipativa.*
***Interna a parete**: campata adiacente ad una parete in c.a.*
***Sovraresistenza**: aliquota di sovraresistenza da assicurare in verifica.*
***Materiale CLS**: materiale calcestruzzo impiegato.*
***Materiale Acciaio**: materiale/i acciaio impiegato/i.*
***FC**: fattore di confidenza riferito al materiale CLS.*
***Posizione**: posizione della barra.*
***X**: ascissa relativa della barra rispetto al baricentro della sezione. [m]*
***Y**: ordinata relativa della barra rispetto al baricentro della sezione. [m]*
***Diametro**: diametro nominale della barra. [m]*
***Area**: area nominale della barra. [m²]*
***Q.inf.**: quota inferiore della barra. [m]*
***Q.sup.**: quota superiore della barra. [m]*
***Materiale**: materiale della barra.*
***Quota**: quota della sezione. [m]*
***As**: area complessiva delle armature verticali. [m²]*
***%**: percentuale di acciaio.*
***At**: area delle armature verticali destinata alla verifica di torsione. [m²]*
***Pos.**: posizioni barre longitudinali presenti nella sezione.*
***Mx**: momento Mx. [kN*m]*
***My**: momento My. [kN*m]*

***N**: sforzo normale. [kN]*
***MRdx**: momento resistente in direzione X. [kN*m]*
***MRdy**: momento resistente in direzione Y. [kN*m]*
***Comb.**: combinazione peggiore.*
***Coeff.s.**: coefficiente di sicurezza minimo.*
***Verifica**: stato di verifica.*
***C.S.**: coefficiente di sicurezza minimo.*
***Nmin**: compressione massima. [kN]*
***Nlim**: compressione limite. [kN]*
***Comb.Nmin**: combinazione in cui si ottiene la compressione massima.*
***Ver.**: stato di verifica.*
***Molt.**: moltiplicatore delle azioni sismiche che attiva il meccanismo.*
***TR**: periodo di ritorno associato all'attivazione del meccanismo.*
***I.R.TR**: indicatore di rischio sismico in termini di periodo di ritorno.*
***PGA**: pga associata all'attivazione del meccanismo.*
***I.R.PGA**: indicatore di rischio sismico in termini di pga.*
***Staffe**: staffatura presente nella sezione.*
***Direzione X**: dati della verifica a taglio in direzione X.*
***V**: taglio di verifica per la direzione considerata. [kN]*
***N**: sforzo normale per la verifica nella direzione considerata. [kN]*
***Comb.**: combinazione per la verifica nella direzione considerata.*
***VRd**: resistenza a taglio del calcestruzzo non staffato per la verifica nella direzione considerata. [kN]*
***VRsd**: resistenza a taglio delle staffe per la verifica nella direzione considerata. [kN]*
***VRcd**: resistenza a taglio delle bielle compresse per la verifica nella direzione considerata. [kN]*
***Cot**: cotagente delle bielle compresse per la verifica nella direzione considerata.*
***c.s.**: coefficiente di sicurezza per la verifica nella direzione considerata.*
***Direzione Y**: dati della verifica a taglio in direzione Y.*
***Quota**: quota di verifica. [m]*
***Q.inf.**: quota inferiore dell'appoggio considerato per la valutazione della rotazione alla corda. [m]*
***Q.sup.**: quota superiore dell'appoggio considerato per la valutazione della rotazione alla corda. [m]*
***Dir.**: direzione di riferimento della verifica.*
***Lv**: luce di taglio considerata. [m]*
***x**: altezza della zona compressa della sezione. [m]*
***h**: altezza totale della sezione. [m]*
***ρ,tot**: percentuale geometrica totale di armatura longitudinale.*
***θ,m**: rotazione massima per la combinazione considerata.*
***θ,y**: rotazione di prima plasticizzazione.*
***μΔ,pl**: parte plastica della domanda di duttilità.*
***VRcd(cotθ=1)**: resistenza a taglio delle bielle compresse per la verifica nella direzione considerata consideranto il valore di cotθ unitario. [kN]*
***Vw**: contributo dell'armatura trasversale per la resistenza a taglio. [kN]*
***VR**: resistenza a taglio in condizioni cicliche (formula [C8.7.2.8]). [kN]*
***VR,f**: resistenza a taglio considerata in condizioni cicliche (secondo §C8.7.2.3.5). [kN]*
***VEd**: sollecitazione tagliante. [kN]*
***NEd**: sollecitazione di sforzo normale. [kN]*
***Comb.**: combinazione di riferimento.*

1.1.1 P2

Geometria



1.1.1.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.1.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.95	3.15	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2
3.75	6.6	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.1.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2031	-0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.2031	-0.1631	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.1631	-0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.2031	-0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.2031	-0.1631	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.1631	-0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.2031	0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.2031	0.1631	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.1631	0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.2031	0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.2031	0.1631	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.1631	0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.2	-0.207	0	0.02	0.0003142	-6.65	-5.25		Armature LC2
p.2	0.207	0	0.02	0.0003142	-6.65	-5.25		Armature LC2
p.3	-0.207	0	0.02	0.0003142	-5.249	-0.975	R 50x50	Armature LC2
p.3	0.207	0	0.02	0.0003142	-5.249	-0.975	R 50x50	Armature LC2
p.4	-0.207	0	0.02	0.0003142	-0.974	3.75	R 50x50	Armature LC2
p.4	0.207	0	0.02	0.0003142	-0.974	3.75	R 50x50	Armature LC2
p.5	-0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.5	0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2

1.1.1.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.1.3 Verifiche delle sezioni

1.1.1.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.8	0.007487	3.1	0	1,3,4	0.3503	-1.9066	-465.71	6.2165	-33.8296	SLU 20	17.744	Si
-0.77	0.007468	3.1	0	1,3,4	0.3355	-1.9062	-465.52	5.95	-33.8079	SLU 20	17.736	Si
-0.47	0.007231	3.1	0	1,3,4	0.1445	-1.9012	-463.07	2.5485	-33.5286	SLU 20	17.636	Si
-0.17	0.006999	2.8	0	1,4	-0.0465	-1.8962	-460.62	-0.8148	-33.2565	SLU 20	17.539	Si
0.13	0.006999	2.8	0	1,4	-0.2374	-1.8911	-458.17	-4.1865	-33.346	SLU 20	17.633	Si
0.44	0.006999	2.8	0	1,4	-0.4284	-1.8861	-455.71	-7.5944	-33.4364	SLU 20	17.728	Si
0.74	0.006999	2.8	0	1,4	-0.6194	-1.8811	-453.26	-11.0392	-33.5279	SLU 20	17.823	Si
1.04	0.006999	2.8	0	1,4	-0.8103	-1.8761	-450.81	-14.5214	-33.6203	SLU 20	17.92	Si
1.34	0.006999	2.8	0	1,4	-1.0013	-1.8711	-448.36	-18.0417	-33.7137	SLU 20	18.018	Si
1.64	0.006999	2.8	0	1,4	-1.1923	-1.8661	-445.91	-21.6007	-33.8082	SLU 20	18.117	Si
1.94	0.006999	2.8	0	1,4	-1.3832	-1.8611	-443.46	-25.1991	-33.9037	SLU 20	18.218	Si
2.25	0.006999	2.8	0	1,4	-1.5742	-1.856	-441.01	-28.8374	-34.0003	SLU 20	18.319	Si
2.55	0.006999	2.8	0	1,4	-1.7652	-1.851	-438.56	-32.5164	-34.098	SLU 20	18.421	Si
2.85	0.006999	2.8	0	1,4	-1.9561	-1.846	-436.11	-36.2368	-34.1967	SLU 20	18.525	Si
3.15	0.006999	2.8	0	1,4	-2.1419	-1.8411	-433.72	-39.8961	-34.2939	SLU 20	18.627	Si
3.15	0.006999	2.8	0	1,4	-2.1439	-1.8411	-433.7	-39.9365	-34.2949	SLU 20	18.628	Si
3.75	0.006999	3.1	0	1,4,5	-2.0548	-2.1527	-186.92	-88.8094	-93.0406	SLU 17	43.22	Si
4.04	0.006999	3.1	0	1,4,5	-1.8529	-1.9296	-184.61	-81.0861	-84.4425	SLU 17	43.762	Si
4.32	0.006999	3.1	0	1,4,5	-1.651	-1.7065	-182.29	-73.1666	-75.626	SLU 17	44.318	Si
4.61	0.006999	2.8	0	1,5	-1.449	-1.4833	-179.98	-65.0432	-66.5826	SLU 17	44.888	Si
4.89	0.006999	2.8	0	1,5	-1.2471	-1.2602	-177.66	-56.7082	-57.3035	SLU 17	45.473	Si
5.18	0.006999	2.8	0	1,5	-1.0451	-1.037	-175.34	-48.1529	-47.7793	SLU 17	46.073	Si
5.46	0.006999	2.8	0	1,5	-0.8432	-0.8139	-173.03	-39.3687	-38.0002	SLU 17	46.69	Si
5.75	0.006999	2.8	0	1,5	-0.6377	-0.5868	-170.67	-30.1857	-27.7771	SLU 17	47.335	Si
6.03	0.006999	2.8	0	1,5	-0.4393	-0.3676	-168.4	-21.0755	-17.6351	SLU 17	47.974	Si
6.32	0.007847	5.3	0	1,5	-0.2374	-0.1445	-166.08	-12.0058	-7.3062	SLU 17	50.578	Si
6.6	0.00919	5.3	0	1,5	-0.039	0.0748	-163.81	-2.1196	4.0671	SLU 17	54.39	Si

1.1.1.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.8	0.007487	3.1	0	1,3,4	-16.6323	-12.4667	-305.99	-515.7547	-386.5834	SLV 6	31.009				Si
-0.77	0.007468	3.1	0	1,3,4	-16.0058	-12.2435	-305.85	-501.8326	-383.8726	SLV 6	31.353				Si
-0.47	0.007231	3.1	0	1,3,4	9.9191	-10.8973	-303.96	341.315	-374.9766	SLV 3	34.41				Si
-0.17	0.006999	2.8	0	1,4	8.5307	-9.4287	-302.08	303.2633	-335.185	SLV 1	35.549				Si
0.13	0.006999	2.8	0	1,4	12.6767	-5.4492	-300.19	446.0069	-191.7185	SLV 5	35.183				Si
0.44	0.006999	2.8	0	1,4	-20.9385	1.0503	-298.31	-662.0074	33.2084	SLV 12	31.617				Si
0.74	0.006999	2.8	0	1,4	-29.61	0.82	-296.42	-821.3474	22.7462	SLV 12	27.739				Si
1.04	0.006999	2.8	0	1,4	-38.4651	1.0475	-294.54	-932.8964	25.4048	SLV 12	24.253				Si
1.34	0.006999	2.8	0	1,4	-47.3972	1.389	-292.65	-1010.5724	29.6162	SLV 12	21.321				Si
1.64	0.006999	2.8	0	1,4	-56.3708	1.7908	-290.77	-1065.7246	33.8557	SLV 12	18.906				Si
1.94	0.006999	2.8	0	1,4	-65.3699	2.2251	-288.88	-1105.437	37.6271	SLV 12	16.91				Si
2.25	0.006999	2.8	0	1,4	-74.386	-13.9429	-286.99	-1031.5481	-193.3529	SLV 12	13.867				Si
2.55	0.006999	2.8	0	1,4	-83.4142	-24.0227	-285.11	-953.5889	-274.6266	SLV 12	11.432				Si
2.85	0.006999	2.8	0	1,4	-92.4511	-27.8476	-283.22	-929.2546	-279.9044	SLV 12	10.051				Si
3.15	0.006999	2.8	0	1,4	-101.2481	-30.7653	-281.39	-914.8226	-277.9788	SLV 12	9.035				Si
3.15	0.006999	2.8	0	1,4	-101.3448	-30.7974	-281.37	-914.6467	-277.9498	SLV 12	9.025				Si
3.75	0.006999	3.1	0	1,4,5	-106.1714	-33.0356	-116.94	-738.4802	-229.7806	SLV 12	6.956				Si
4.04	0.006999	3.1	0	1,4,5	-95.7373	-29.6634	-115.16	-750.6129	-232.5713	SLV 12	7.84				Si
4.32	0.006999	3.1	0	1,4,5	-85.3032	-26.2913	-113.38	-766.4356	-236.2227	SLV 12	8.985				Si
4.61	0.006999	2.8	0	1,5	-74.8691	-22.9191	-111.59	-787.1985	-240.9789	SLV 12	10.514				Si
4.89	0.006999	2.8	0	1,5	-64.435	-19.547	-109.81	-814.3607	-247.0437	SLV 12	12.638				Si
5.18	0.006999	2.8	0	1,5	-54.001	-16.1748	-108.03	-853.6594	-255.6953	SLV 12	15.808				Si
5.46	0.006999	2.8	0	1,5	-43.5669	-12.8027	-106.25	-896.1935	-263.3586	SLV 12	20.571				Si
5.75	0.006999	2.8	0	1,5	-32.9497	-9.3715	-104.44	-944.4818	-268.6278	SLV 12	28.664				Si
6.03	0.006999	2.8	0	1,5	-22.6987	-6.0588	-102.69	-985.7491	-263.117	SLV 12	43.428				Si
6.32	0.007847	5.3	0	1,5	-12.2646	-2.6876	-100.91	-904.0122	-198.1028	SLV 12	73.709				Si
6.6	0.00919	5.3	0	1,5	-1.7494	-0.5723	-99.16	-210.3498	-68.8106	SLV 8	120.244				Si

1.1.1.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.8	0.007487	3.1	0	1,3,4	8.8272	-0.5252	-306	323.7035	-19.2609	SLD 8	36.671	Si
-0.77	0.007468	3.1	0	1,3,4	8.546	-0.5366	-305.85	313.3297	-19.6724	SLD 8	36.664	Si
-0.47	0.007231	3.1	0	1,3,4	5.1924	-0.6472	-303.96	189.8879	-23.6687	SLD 8	36.57	Si
-0.17	0.006999	2.8	0	1,4	-0.8341	-0.668	-302.08	-30.4303	-24.3701	SLD 8	36.482	Si
0.13	0.006999	2.8	0	1,4	-3.609	-0.5334	-300.19	-132.4913	-19.5833	SLD 8	36.712	Si
0.44	0.006999	2.8	0	1,4	-6.7546	0.4698	-298.31	-249.539	17.3559	SLD 8	36.944	Si
0.74	0.006999	2.8	0	1,4	-12.8996	-0.3651	-296.42	-462.6526	-13.096	SLD 12	35.866	Si
1.04	0.006999	2.8	0	1,4	-16.7564	-0.241	-294.54	-571.2001	-8.2158	SLD 12	34.088	Si
1.34	0.006999	2.8	0	1,4	-20.6471	-0.0688	-292.65	-665.7222	-2.2177	SLD 12	32.243	Si
1.64	0.006999	2.8	0	1,4	-24.5561	0.1287	-290.77	-747.1296	3.915	SLD 12	30.425	Si
1.94	0.006999	2.8	0	1,4	-28.4764	0.3398	-288.88	-816.3189	9.7396	SLD 12	28.667	Si
2.25	0.006999	2.8	0	1,4	-32.4042	-6.7012	-286.99	-850.811	-175.9478	SLD 12	26.256	Si
2.55	0.006999	2.8	0	1,4	-36.3372	-11.0828	-285.11	-865.5982	-264.0063	SLD 12	23.821	Si
2.85	0.006999	2.8	0	1,4	-40.2741	-12.7322	-283.22	-890.9905	-281.6759	SLD 12	22.123	Si
3.15	0.006999	2.8	0	1,4	-44.1065	-13.9858	-281.39	-913.9028	-289.7908	SLD 12	20.72	Si
3.15	0.006999	2.8	0	1,4	-44.1487	-13.9996	-281.37	-914.1385	-289.8744	SLD 12	20.706	Si
3.75	0.006999	3.1	0	1,4,5	-46.2515	-14.9309	-116.94	-888.2687	-286.7504	SLD 12	19.205	Si
4.04	0.006999	3.1	0	1,4,5	-41.7061	-13.4054	-115.16	-903.8724	-290.5271	SLD 12	21.672	Si
4.32	0.006999	3.1	0	1,4,5	-37.1607	-11.8799	-113.38	-917.6552	-293.3647	SLD 12	24.694	Si
4.61	0.006999	2.8	0	1,5	-32.6153	-10.3544	-111.59	-934.9882	-296.831	SLD 12	28.667	Si
4.89	0.006999	2.8	0	1,5	-28.0699	-8.8289	-109.81	-951.9341	-299.4142	SLD 12	33.913	Si
5.18	0.006999	2.8	0	1,5	-23.5245	-7.3034	-108.03	-961.3088	-298.4477	SLD 12	40.864	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
5.46	0.006999	2.8	0	1,5	-18.9791	-5.7779	-106.25	-944.5035	-287.5415	SLD 12	49.766	Si
5.75	0.006999	2.8	0	1,5	-14.3539	-4.2257	-104.44	-890.0808	-262.0345	SLD 12	62.01	Si
6.03	0.006999	2.8	0	1,5	-9.8883	-2.7271	-102.69	-778.7779	-214.7788	SLD 12	78.758	Si
6.32	0.007847	5.3	0	1,5	-5.3428	-1.202	-100.91	-551.8247	-124.1473	SLD 12	103.283	Si
6.6	0.00919	5.3	0	1,5	-0.7637	-0.2223	-99.16	-91.8288	-26.7249	SLD 8	120.245	Si

1.1.1.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.8	34.961	1961	1.347	0.368	1.298	SLV 7	Si
-0.77	36.007	1961	1.347	0.368	1.298	SLV 7	Si
-0.47	54.279	1961	1.347	0.368	1.298	SLV 3	Si
-0.17	62.154	1961	1.347	0.368	1.298	SLV 1	Si
0.13	51.388	1961	1.347	0.368	1.298	SLV 5	Si
0.44	32.746	1961	1.347	0.368	1.298	SLV 5	Si
0.74	23.16	1961	1.347	0.368	1.298	SLV 12	Si
1.04	17.832	1961	1.347	0.368	1.298	SLV 12	Si
1.34	14.477	1961	1.347	0.368	1.298	SLV 5	Si
1.64	12.162	1961	1.347	0.368	1.298	SLV 12	Si
1.94	10.478	1961	1.347	0.368	1.298	SLV 12	Si
2.25	9.13	1961	1.347	0.368	1.298	SLV 12	Si
2.55	8.046	1961	1.347	0.368	1.298	SLV 12	Si
2.85	7.234	1961	1.347	0.368	1.298	SLV 12	Si
3.15	6.592	1961	1.347	0.368	1.298	SLV 12	Si
3.15	6.592	1961	1.347	0.368	1.298	SLV 11	Si
3.75	6.018	1961	1.347	0.368	1.298	SLV 11	Si
4.04	6.674	1961	1.347	0.368	1.298	SLV 11	Si
4.32	7.48	1961	1.347	0.368	1.298	SLV 12	Si
4.61	8.529	1961	1.347	0.368	1.298	SLV 12	Si
4.89	9.906	1961	1.347	0.368	1.298	SLV 12	Si
5.18	11.84	1961	1.347	0.368	1.298	SLV 11	Si
5.46	14.682	1961	1.347	0.368	1.298	SLV 11	Si
5.75	19.406	1961	1.347	0.368	1.298	SLV 12	Si
6.03	28.246	1961	1.347	0.368	1.298	SLV 12	Si
6.32	57.971	1961	1.347	0.368	1.298	SLV 12	Si
6.6	410.199	1961	1.347	0.368	1.298	SLV 5	Si

1.1.1.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.8	81.367	1961	3.374	0.368	3.05	SLD 7	Si
-0.77	83.724	1961	3.374	0.368	3.05	SLD 7	Si
-0.47	126.512	1961	3.374	0.368	3.05	SLD 3	Si
-0.17	144.936	1961	3.374	0.368	3.05	SLD 1	Si
0.13	120.063	1961	3.374	0.368	3.05	SLD 5	Si
0.44	76.53	1961	3.374	0.368	3.05	SLD 5	Si
0.74	54.156	1961	3.374	0.368	3.05	SLD 5	Si
1.04	41.667	1961	3.374	0.368	3.05	SLD 12	Si
1.34	33.792	1961	3.374	0.368	3.05	SLD 12	Si
1.64	28.367	1961	3.374	0.368	3.05	SLD 12	Si
1.94	24.432	1961	3.374	0.368	3.05	SLD 12	Si
2.25	21.313	1961	3.374	0.368	3.05	SLD 12	Si
2.55	18.771	1961	3.374	0.368	3.05	SLD 12	Si
2.85	16.863	1961	3.374	0.368	3.05	SLD 12	Si
3.15	15.385	1961	3.374	0.368	3.05	SLD 12	Si
3.15	15.355	1961	3.374	0.368	3.05	SLD 12	Si
3.75	14.037	1961	3.374	0.368	3.05	SLD 11	Si
4.04	15.561	1961	3.374	0.368	3.05	SLD 12	Si
4.32	17.469	1961	3.374	0.368	3.05	SLD 11	Si
4.61	19.891	1961	3.374	0.368	3.05	SLD 12	Si
4.89	23.13	1961	3.374	0.368	3.05	SLD 12	Si
5.18	27.58	1961	3.374	0.368	3.05	SLD 12	Si
5.46	34.223	1961	3.374	0.368	3.05	SLD 12	Si
5.75	45.297	1961	3.374	0.368	3.05	SLD 12	Si
6.03	65.864	1961	3.374	0.368	3.05	SLD 12	Si
6.32	135.473	1961	3.374	0.368	3.05	SLD 5	Si
6.6	958.064	1961	3.374	0.368	3.05	SLD 5	Si

1.1.1.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.8	2X/2Y ø8/14.9	-0.19	-358.24	SLU 7	167.62	263.84	1012.49	2.5	1400.37	-0.74	-420.56	SLU 13	174.96	261.6	1012.66	2.5	355.38	Si
-0.77	2X/2Y ø8/14.9	-0.19	-358.09	SLU 7	167.6	263.84	1012.47	2.5	1400.37	-0.74	-420.37	SLU 13	174.94	261.6	1012.63	2.5	355.38	Si
-0.47	2X/2Y ø8/14.9	-0.19	-356.21	SLU 7	167.34	263.84	1012.2	2.5	1400.37	-0.74	-417.92	SLU 13	174.61	261.6	1012.29	2.5	355.38	Si
-0.17	2X/2Y ø8/14.9	-0.19	-354.32	SLU 7	167.08	263.84	1011.93	2.5	1400.37	-0.74	-415.47	SLU 13	174.27	261.6	1011.94	2.5	355.38	Si
0.13	2X/2Y ø8/14.9	-0.19	-352.44	SLU 7	166.82	263.84	1011.67	2.5	1400.37	-0.74	-413.02	SLU 13	173.94	261.6	1011.6	2.5	355.38	Si
0.44	2X/2Y ø8/14.9	-0.19	-350.55	SLU 7	166.56	263.84	1011.4	2.5	1400.37	-0.74	-410.56	SLU 13	173.61	261.6	1011.25	2.5	355.38	Si
0.74	2X/2Y ø8/14.9	-0.19	-348.66	SLU 7	166.3	263.84	1011.13	2.5	1400.37	-0.74	-408.11	SLU 13	173.27	261.6	1010.91	2.5	355.38	Si
1.04	2X/2Y ø8/14.9	-0.19	-346.78	SLU 7	166.04	263.84	1010.86	2.5	1400.37	-0.74	-405.66	SLU 13	172.94	261.6	1010.57	2.5	355.38	Si
1.34	2X/2Y ø8/14.9	-0.19	-344.89	SLU 7	165.79	263.84	1010.6	2.5	1400.37	-0.74	-403.21	SLU 13	172.61	261.6	1010.22	2.5	355.38	Si
1.64	2X/2Y ø8/14.9	-0.19	-343.01	SLU 7	165.53	263.84	1010.33	2.5	1400.37	-0.74	-400.76	SLU 13	172.27	261.6	1009.88	2.5	355.38	Si
1.94	2X/2Y ø8/14.9	-0.19	-341.12	SLU 7	165.27	263.84	1010.06	2.5	1400.37	-0.74	-398.31	SLU 13	171.94	261.6	1009.53	2.5	355.38	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
2.25	2X/2Y ø8/14.9	-0.19	-339.24	SLU 7	165.01	263.84	1009.79	2.5	1400.37	-0.74	-395.86	SLU 13	171.61	261.6	1009.19	2.5	355.38	Si
2.55	2X/2Y ø8/14.9	-0.19	-337.35	SLU 7	164.75	263.84	1009.53	2.5	1400.37	-0.74	-393.41	SLU 13	171.27	261.6	1008.84	2.5	355.38	Si
2.85	2X/2Y ø8/14.9	-0.19	-335.47	SLU 7	164.49	263.84	1009.26	2.5	1400.37	-0.74	-390.96	SLU 13	170.94	261.6	1008.5	2.5	355.38	Si
3.15	2X/2Y ø8/14.9	-0.19	-333.63	SLU 7	164.24	263.84	1009	2.5	1400.37	-0.74	-388.57	SLU 13	170.62	261.6	1008.16	2.5	355.38	Si
3.15	2X/2Y ø8/14.9	-0.19	-333.61	SLU 7	164.24	263.84	1009	2.5	1400.37	-0.74	-388.55	SLU 13	170.61	261.6	1008.16	2.5	355.38	Si
3.75	2X/2Y ø8/14.9	0.78	-186.92	SLU 17	144.13	263.84	988.19	2.5	336.97	0.86	-173.54	SLU 13	141.38	261.6	977.92	2.5	302.91	Si
4.04	2X/2Y ø8/14.9	0.78	-184.61	SLU 17	143.81	263.84	987.86	2.5	336.97	0.86	-171.22	SLU 13	141.07	261.6	977.6	2.5	302.91	Si
4.32	2X/2Y ø8/14.9	0.78	-182.29	SLU 17	143.49	263.84	987.54	2.5	336.97	0.86	-168.9	SLU 13	140.76	261.6	977.27	2.5	302.91	Si
4.61	2X/2Y ø8/14.9	0.78	-179.98	SLU 17	143.18	263.84	987.21	2.5	336.97	0.86	-166.59	SLU 13	140.44	261.6	976.95	2.5	302.91	Si
4.89	2X/2Y ø8/14.9	0.78	-177.66	SLU 17	142.86	263.84	986.88	2.5	336.97	0.86	-164.27	SLU 13	140.13	261.6	976.62	2.5	302.91	Si
5.18	2X/2Y ø8/14.9	0.78	-175.34	SLU 17	142.54	263.84	986.55	2.5	336.97	0.86	-161.96	SLU 13	139.81	261.6	976.29	2.5	302.91	Si
5.46	2X/2Y ø8/14.9	0.78	-173.03	SLU 17	142.22	263.84	986.22	2.5	336.97	0.86	-159.64	SLU 13	139.5	261.6	975.97	2.5	302.91	Si
5.75	2X/2Y ø8/10	0.78	-170.67	SLU 17	141.9	391.99	985.89	2.5	500.65	0.86	-157.29	SLU 13	139.18	388.66	975.64	2.5	450.04	Si
6.03	2X/2Y ø8/10	0.78	-168.4	SLU 17	141.59	391.99	985.57	2.5	500.65	0.86	-155.01	SLU 13	138.87	388.66	975.32	2.5	450.04	Si
6.32	2X/2Y ø8/10	0.78	-166.08	SLU 17	141.27	391.99	985.24	2.5	500.65	0.86	-152.69	SLU 13	138.75	389.41	976.88	2.5	450.91	Si
6.6	2X/2Y ø8/10	0.78	-163.81	SLU 17	140.96	391.99	984.91	2.5	500.65	0.86	-150.42	SLU 13	138.44	389.41	976.56	2.5	450.91	Si

1.1.1.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.8	2X/2Y ø8/14.9	15.97	-306	SLV 1	160.45	263.84	1005.08	2.5	16.52	-30.15	-306	SLV 11	159.39	261.6	996.55	2.5	8.68	Si
-0.77	2X/2Y ø8/14.9	15.97	-305.85	SLV 1	160.43	263.84	1005.06	2.5	16.52	-30.15	-305.85	SLV 11	159.37	261.6	996.53	2.5	8.68	Si
-0.47	2X/2Y ø8/14.9	15.97	-303.96	SLV 1	160.17	263.84	1004.79	2.5	16.52	-30.15	-303.96	SLV 11	159.11	261.6	996.26	2.5	8.68	Si
-0.17	2X/2Y ø8/14.9	15.97	-302.08	SLV 1	159.92	263.84	1004.52	2.5	16.52	-30.15	-302.08	SLV 11	158.86	261.6	996	2.5	8.68	Si
0.13	2X/2Y ø8/14.9	15.97	-300.19	SLV 1	159.66	263.84	1004.26	2.5	16.52	-30.15	-300.19	SLV 11	158.6	261.6	995.73	2.5	8.68	Si
0.44	2X/2Y ø8/14.9	15.97	-298.31	SLV 1	159.4	263.84	1003.99	2.5	16.52	-30.15	-298.31	SLV 11	158.35	261.6	995.47	2.5	8.68	Si
0.74	2X/2Y ø8/14.9	15.97	-296.42	SLV 1	159.14	263.84	1003.72	2.5	16.52	-30.15	-296.42	SLV 11	158.09	261.6	995.2	2.5	8.68	Si
1.04	2X/2Y ø8/14.9	15.97	-294.54	SLV 1	158.88	263.84	1003.45	2.5	16.52	-30.15	-294.54	SLV 11	157.83	261.6	994.94	2.5	8.68	Si
1.34	2X/2Y ø8/14.9	15.97	-292.65	SLV 1	158.62	263.84	1003.19	2.5	16.52	-30.15	-292.65	SLV 11	157.58	261.6	994.67	2.5	8.68	Si
1.64	2X/2Y ø8/14.9	15.97	-290.77	SLV 1	158.37	263.84	1002.92	2.5	16.52	-30.15	-290.77	SLV 11	157.32	261.6	994.41	2.5	8.68	Si
1.94	2X/2Y ø8/14.9	15.97	-288.88	SLV 1	158.11	263.84	1002.65	2.5	16.52	-30.15	-288.88	SLV 11	157.06	261.6	994.14	2.5	8.68	Si
2.25	2X/2Y ø8/14.9	15.97	-286.99	SLV 1	157.85	263.84	1002.39	2.5	16.52	-30.15	-286.99	SLV 11	156.81	261.6	993.88	2.5	8.68	Si
2.55	2X/2Y ø8/14.9	15.97	-285.11	SLV 1	157.59	263.84	1002.12	2.5	16.52	-30.15	-285.11	SLV 11	156.55	261.6	993.61	2.5	8.68	Si
2.85	2X/2Y ø8/14.9	15.97	-283.22	SLV 1	157.33	263.84	1001.85	2.5	16.52	-30.15	-283.22	SLV 11	156.3	261.6	993.35	2.5	8.68	Si
3.15	2X/2Y ø8/14.9	15.97	-281.39	SLV 1	157.08	263.84	1001.59	2.5	16.52	-30.15	-281.39	SLV 11	156.05	261.6	993.09	2.5	8.68	Si
3.15	2X/2Y ø8/14.9	15.97	-281.37	SLV 1	157.08	263.84	1001.59	2.5	16.52	-30.15	-281.37	SLV 11	156.04	261.6	993.09	2.5	8.68	Si
3.75	2X/2Y ø8/14.9	18.15	-116.94	SLV 16	134.53	263.84	978.27	2.5	14.54	36.61	-116.94	SLV 12	133.69	261.6	969.96	2.5	7.15	Si
4.04	2X/2Y ø8/14.9	18.15	-115.16	SLV 16	134.29	263.84	978.01	2.5	14.54	36.61	-115.16	SLV 12	133.45	261.6	969.71	2.5	7.15	Si
4.32	2X/2Y ø8/14.9	18.15	-113.38	SLV 16	134.04	263.84	977.76	2.5	14.54	36.61	-113.38	SLV 12	133.21	261.6	969.46	2.5	7.15	Si
4.61	2X/2Y ø8/14.9	18.15	-111.59	SLV 16	133.8	263.84	977.51	2.5	14.54	36.61	-111.59	SLV 12	132.96	261.6	969.21	2.5	7.15	Si
4.89	2X/2Y ø8/14.9	18.15	-109.81	SLV 16	133.56	263.84	977.26	2.5	14.54	36.61	-109.81	SLV 12	132.72	261.6	968.96	2.5	7.15	Si
5.18	2X/2Y ø8/14.9	18.15	-108.03	SLV 16	133.31	263.84	977	2.5	14.54	36.61	-108.03	SLV 12	132.48	261.6	968.71	2.5	7.15	Si
5.46	2X/2Y ø8/14.9	18.15	-106.25	SLV 16	133.07	263.84	976.75	2.5	14.54	36.61	-106.25	SLV 12	132.24	261.6	968.46	2.5	7.15	Si
5.75	2X/2Y ø8/10	18.15	-104.44	SLV 16	132.82	391.99	976.49	2.5	21.6	36.61	-104.44	SLV 12	131.99	388.66	968.21	2.5	10.62	Si
6.03	2X/2Y ø8/10	18.15	-102.69	SLV 16	132.58	391.99	976.25	2.5	21.6	36.61	-102.69	SLV 12	131.75	388.66	967.96	2.5	10.62	Si
6.32	2X/2Y ø8/10	18.15	-100.91	SLV 16	132.34	391.99	975.99	2.5	21.6	36.61	-100.91	SLV 12	131.7	389.41	969.59	2.5	10.64	Si
6.6	2X/2Y ø8/10	18.15	-99.16	SLV 16	132.1	391.99	975.74	2.5	21.6	36.61	-99.16	SLV 12	131.46	389.41	969.34	2.5	10.64	Si

1.1.1.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula

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[C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.975	-5.95	3.45	X	4.75	0.144	0.5	0.0305	0.000195	0.03444	0	160.603	1457.591	263.837	105.535	202.791	263.837	15.974	-307.088	SLV 1	Si
-0.975	-5.95	3.45	Y	4.75	0.144	0.5	0.0305	0.00008	0.03416	0	159.54	1445.22	261.597	104.639	201.155	261.597	-30.154	-307.088	SLV 11	Si

1.1.1.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.8	2X/2Y ø8/14.9	6.9	-306	SLD 1	160.45	263.84	1005.08	2.5	38.21	-13.14	-306	SLD 11	159.39	261.6	996.55	2.5	19.92	Si
-0.77	2X/2Y ø8/14.9	6.9	-305.85	SLD 1	160.43	263.84	1005.06	2.5	38.21	-13.14	-305.85	SLD 11	159.37	261.6	996.53	2.5	19.92	Si
-0.47	2X/2Y ø8/14.9	6.9	-303.96	SLD 1	160.17	263.84	1004.79	2.5	38.21	-13.14	-303.96	SLD 11	159.11	261.6	996.26	2.5	19.92	Si
-0.17	2X/2Y ø8/14.9	6.9	-302.08	SLD 1	159.92	263.84	1004.52	2.5	38.21	-13.14	-302.08	SLD 11	158.86	261.6	996	2.5	19.92	Si
0.13	2X/2Y ø8/14.9	6.9	-300.19	SLD 1	159.66	263.84	1004.26	2.5	38.21	-13.14	-300.19	SLD 11	158.6	261.6	995.73	2.5	19.92	Si
0.44	2X/2Y ø8/14.9	6.9	-298.31	SLD 1	159.4	263.84	1003.99	2.5	38.21	-13.14	-298.31	SLD 11	158.35	261.6	995.47	2.5	19.92	Si
0.74	2X/2Y ø8/14.9	6.9	-296.42	SLD 1	159.14	263.84	1003.72	2.5	38.21	-13.14	-296.42	SLD 11	158.09	261.6	995.2	2.5	19.92	Si
1.04	2X/2Y ø8/14.9	6.9	-294.54	SLD 1	158.88	263.84	1003.45	2.5	38.21	-13.14	-294.54	SLD 11	157.83	261.6	994.94	2.5	19.92	Si
1.34	2X/2Y ø8/14.9	6.9	-292.65	SLD 1	158.62	263.84	1003.19	2.5	38.21	-13.14	-292.65	SLD 11	157.58	261.6	994.67	2.5	19.92	Si
1.64	2X/2Y ø8/14.9	6.9	-290.77	SLD 1	158.36	263.84	1002.92	2.5	38.21	-13.14	-290.77	SLD 11	157.32	261.6	994.41	2.5	19.92	Si
1.94	2X/2Y ø8/14.9	6.9	-288.88	SLD 1	158.11	263.84	1002.65	2.5	38.21	-13.14	-288.88	SLD 11	157.06	261.6	994.14	2.5	19.92	Si
2.25	2X/2Y ø8/14.9	6.9	-286.99	SLD 1	157.85	263.84	1002.39	2.5	38.21	-13.14	-286.99	SLD 11	156.81	261.6	993.88	2.5	19.92	Si
2.55	2X/2Y ø8/14.9	6.9	-285.11	SLD 1	157.59	263.84	1002.12	2.5	38.21	-13.14	-285.11	SLD 11	156.55	261.6	993.61	2.5	19.92	Si
2.85	2X/2Y ø8/14.9	6.9	-283.22	SLD 1	157.33	263.84	1001.85	2.5	38.21	-13.14	-283.22	SLD 11	156.3	261.6	993.35	2.5	19.92	Si
3.15	2X/2Y ø8/14.9	6.9	-281.39	SLD 1	157.08	263.84	1001.59	2.5	38.21	-13.14	-281.39	SLD 11	156.05	261.6	993.09	2.5	19.92	Si
3.15	2X/2Y ø8/14.9	6.9	-281.37	SLD 1	157.08	263.84	1001.59	2.5	38.21	-13.14	-281.37	SLD 11	156.04	261.6	993.09	2.5	19.92	Si
3.75	2X/2Y ø8/14.9	8.03	-116.94	SLD 16	134.53	263.84	978.27	2.5	32.87	15.95	-116.94	SLD 12	133.69	261.6	969.96	2.5	16.4	Si
4.04	2X/2Y ø8/14.9	8.03	-115.16	SLD 16	134.29	263.84	978.01	2.5	32.87	15.95	-115.16	SLD 12	133.45	261.6	969.71	2.5	16.4	Si
4.32	2X/2Y ø8/14.9	8.03	-113.38	SLD 16	134.04	263.84	977.76	2.5	32.87	15.95	-113.38	SLD 12	133.21	261.6	969.46	2.5	16.4	Si
4.61	2X/2Y ø8/14.9	8.03	-111.59	SLD 16	133.8	263.84	977.51	2.5	32.87	15.95	-111.59	SLD 12	132.96	261.6	969.21	2.5	16.4	Si
4.89	2X/2Y ø8/14.9	8.03	-109.81	SLD 16	133.56	263.84	977.26	2.5	32.87	15.95	-109.81	SLD 12	132.72	261.6	968.96	2.5	16.4	Si
5.18	2X/2Y ø8/14.9	8.03	-108.03	SLD 16	133.31	263.84	977	2.5	32.87	15.95	-108.03	SLD 12	132.48	261.6	968.71	2.5	16.4	Si
5.46	2X/2Y ø8/14.9	8.03	-106.25	SLD 16	133.07	263.84	976.75	2.5	32.87	15.95	-106.25	SLD 12	132.24	261.6	968.46	2.5	16.4	Si
5.75	2X/2Y ø8/10	8.03	-104.44	SLD 16	132.82	391.99	976.49	2.5	48.83	15.95	-104.44	SLD 12	131.99	388.66	968.21	2.5	24.37	Si
6.03	2X/2Y ø8/10	8.03	-102.69	SLD 16	132.58	391.99	976.25	2.5	48.83	15.95	-102.69	SLD 12	131.75	388.66	967.96	2.5	24.37	Si
6.32	2X/2Y ø8/10	8.03	-100.91	SLD 16	132.34	391.99	975.99	2.5	48.83	15.95	-100.91	SLD 12	131.7	389.41	969.59	2.5	24.42	Si
6.6	2X/2Y ø8/10	8.03	-99.16	SLD 16	132.1	391.99	975.74	2.5	48.83	15.95	-99.16	SLD 12	131.46	389.41	969.34	2.5	24.42	Si

1.1.1.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.8	8.764	1961	1.347	0.368	1.298	SLV 11	Si
-0.77	8.764	1961	1.347	0.368	1.298	SLV 11	Si
-0.47	8.764	1961	1.347	0.368	1.298	SLV 11	Si
-0.17	8.764	1961	1.347	0.368	1.298	SLV 11	Si
0.13	8.764	1961	1.347	0.368	1.298	SLV 11	Si
0.44	8.764	1961	1.347	0.368	1.298	SLV 11	Si
0.74	8.764	1961	1.347	0.368	1.298	SLV 11	Si
1.04	8.764	1961	1.347	0.368	1.298	SLV 11	Si
1.34	8.764	1961	1.347	0.368	1.298	SLV 11	Si
1.64	8.764	1961	1.347	0.368	1.298	SLV 11	Si
1.94	8.764	1961	1.347	0.368	1.298	SLV 11	Si
2.25	8.764	1961	1.347	0.368	1.298	SLV 11	Si
2.55	8.764	1961	1.347	0.368	1.298	SLV 11	Si
2.85	8.764	1961	1.347	0.368	1.298	SLV 11	Si
3.15	8.764	1961	1.347	0.368	1.298	SLV 11	Si
3.15	8.764	1961	1.347	0.368	1.298	SLV 11	Si
3.75	7.221	1961	1.347	0.368	1.298	SLV 12	Si
4.04	7.221	1961	1.347	0.368	1.298	SLV 12	Si
4.32	7.221	1961	1.347	0.368	1.298	SLV 12	Si
4.61	7.221	1961	1.347	0.368	1.298	SLV 12	Si
4.89	7.221	1961	1.347	0.368	1.298	SLV 12	Si
5.18	7.221	1961	1.347	0.368	1.298	SLV 12	Si
5.46	7.221	1961	1.347	0.368	1.298	SLV 12	Si
5.75	10.741	1961	1.347	0.368	1.298	SLV 12	Si
6.03	10.741	1961	1.347	0.368	1.298	SLV 12	Si
6.32	10.756	1961	1.347	0.368	1.298	SLV 12	Si

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Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
6.6	10.756	1961	1.347	0.368	1.298	SLV 12	Si

1.1.1.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.8	20.466	1961	3.374	0.368	3.05	SLD 11	Si
-0.77	20.466	1961	3.374	0.368	3.05	SLD 11	Si
-0.47	20.466	1961	3.374	0.368	3.05	SLD 11	Si
-0.17	20.466	1961	3.374	0.368	3.05	SLD 11	Si
0.13	20.466	1961	3.374	0.368	3.05	SLD 11	Si
0.44	20.466	1961	3.374	0.368	3.05	SLD 11	Si
0.74	20.466	1961	3.374	0.368	3.05	SLD 11	Si
1.04	20.466	1961	3.374	0.368	3.05	SLD 11	Si
1.34	20.466	1961	3.374	0.368	3.05	SLD 11	Si
1.64	20.466	1961	3.374	0.368	3.05	SLD 11	Si
1.94	20.466	1961	3.374	0.368	3.05	SLD 11	Si
2.25	20.466	1961	3.374	0.368	3.05	SLD 11	Si
2.55	20.466	1961	3.374	0.368	3.05	SLD 11	Si
2.85	20.466	1961	3.374	0.368	3.05	SLD 11	Si
3.15	20.466	1961	3.374	0.368	3.05	SLD 11	Si
3.15	20.466	1961	3.374	0.368	3.05	SLD 11	Si
3.75	16.863	1961	3.374	0.368	3.05	SLD 11	Si
4.04	16.863	1961	3.374	0.368	3.05	SLD 11	Si
4.32	16.863	1961	3.374	0.368	3.05	SLD 11	Si
4.61	16.863	1961	3.374	0.368	3.05	SLD 11	Si
4.89	16.863	1961	3.374	0.368	3.05	SLD 11	Si
5.18	16.863	1961	3.374	0.368	3.05	SLD 11	Si
5.46	16.863	1961	3.374	0.368	3.05	SLD 11	Si
5.75	25.067	1961	3.374	0.368	3.05	SLD 12	Si
6.03	25.067	1961	3.374	0.368	3.05	SLD 12	Si
6.32	25.098	1961	3.374	0.368	3.05	SLD 12	Si
6.6	25.098	1961	3.374	0.368	3.05	SLD 12	Si

1.1.1.4 Verifiche nodi trave colonna

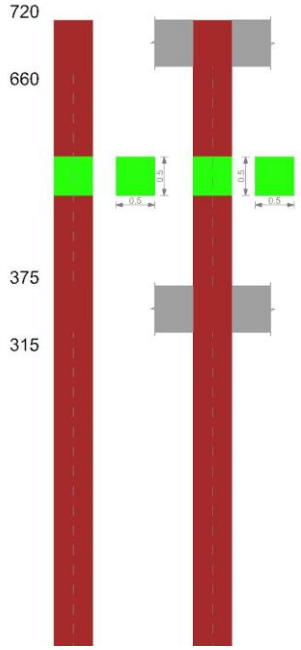
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.1.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.2 P3

Geometria



1.1.2.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.2.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.95	3.15	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2
3.75	6.6	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2

1.1.2.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2031	-0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.2031	-0.1631	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.1631	-0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.2031	-0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.2031	-0.1631	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.1631	-0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.2031	0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.2031	0.1631	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	0.1631	0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.2031	0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.2031	0.1631	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.1	-0.1631	0.2031	0.026	0.0005309	-6.65	7.2	R 50x50	Armature LC2
p.2	-0.207	0	0.02	0.0003142	-6.65	-5.25	R 50x50	Armature LC2
p.2	0.207	0	0.02	0.0003142	-6.65	-5.25	R 50x50	Armature LC2
p.3	-0.207	0	0.02	0.0003142	-5.249	-0.975	R 50x50	Armature LC2
p.3	0.207	0	0.02	0.0003142	-5.249	-0.975	R 50x50	Armature LC2
p.4	-0.207	0	0.02	0.0003142	-0.974	3.75	R 50x50	Armature LC2
p.4	0.207	0	0.02	0.0003142	-0.974	3.75	R 50x50	Armature LC2
p.5	-0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.5	0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2

1.1.2.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.2.3 Verifiche delle sezioni

1.1.2.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.8	0.007487	3.1	0	1,3,4	0.3506	-1.8372	-460.91	6.2852	-32.9381	SLU 20	17.928	Si
-0.77	0.007468	3.1	0	1,3,4	0.3355	-1.8298	-460.72	6.0128	-32.792	SLU 20	17.921	Si
-0.47	0.007231	3.1	0	1,3,4	0.1423	-1.7354	-458.27	2.5364	-30.9252	SLU 20	17.82	Si
-0.17	0.006999	2.8	0	1,4	-0.0509	-1.6409	-455.82	-0.9014	-29.0827	SLU 20	17.724	Si
0.13	0.006999	2.8	0	1,4	-0.244	-1.5464	-453.37	-4.3488	-27.5566	SLU 20	17.819	Si
0.44	0.006999	2.8	0	1,4	-0.4372	-1.452	-450.92	-7.8337	-26.0139	SLU 20	17.916	Si
0.74	0.006999	2.8	0	1,4	-0.6304	-1.3575	-448.47	-11.3567	-24.4544	SLU 20	18.014	Si
1.04	0.006999	2.8	0	1,4	-0.8236	-1.263	-446.02	-14.9184	-22.8777	SLU 20	18.113	Si
1.34	0.006999	2.8	0	1,4	-1.0168	-1.1686	-443.56	-18.5195	-21.2836	SLU 20	18.213	Si
1.64	0.006999	2.8	0	1,4	-1.21	-1.0741	-441.11	-22.1605	-19.6717	SLU 20	18.314	Si
1.94	0.006999	2.8	0	1,4	-1.4032	-0.9796	-438.66	-25.8423	-18.0419	SLU 20	18.417	Si
2.25	0.006999	2.8	0	1,4	-1.5964	-0.8852	-436.21	-29.5655	-16.3937	SLU 20	18.52	Si
2.55	0.006999	2.8	0	1,4	-1.7896	-0.7907	-433.76	-33.3307	-14.7269	SLU 20	18.625	Si
2.85	0.006999	2.8	0	1,4	-1.9828	-0.6962	-431.31	-37.1387	-13.0412	SLU 20	18.731	Si
3.15	0.006999	2.8	0	1,4	-2.1707	-0.6044	-428.93	-40.8847	-11.383	SLU 20	18.835	Si
3.15	0.006999	2.8	0	1,4	-2.1728	-0.6033	-428.9	-40.9261	-11.3646	SLU 20	18.836	Si
3.75	0.006999	3.1	0	1,4,5	-2.1409	-0.4422	-180.45	-95.8477	-19.7985	SLU 17	44.77	Si
4.04	0.006999	3.1	0	1,4,5	-1.9305	-0.399	-178.14	-87.5516	-18.0969	SLU 17	45.352	Si
4.32	0.006999	3.1	0	1,4,5	-1.7201	-0.3558	-175.82	-79.0371	-16.3505	SLU 17	45.949	Si
4.61	0.006999	2.8	0	1,5	-1.5097	-0.3126	-173.5	-70.2953	-14.5575	SLU 17	46.562	Si
4.89	0.006999	2.8	0	1,5	-1.2993	-0.2695	-171.19	-61.317	-12.7159	SLU 17	47.192	Si
5.18	0.006999	2.8	0	1,5	-1.0889	-0.2263	-168.87	-52.0925	-10.8239	SLU 17	47.839	Si
5.46	0.006999	2.8	0	1,5	-0.8785	-0.1831	-166.56	-42.6114	-8.8793	SLU 17	48.504	Si
5.75	0.006999	2.8	0	1,5	-0.6644	-0.1391	-164.2	-32.6896	-6.8442	SLU 17	49.2	Si
6.03	0.006999	2.8	0	1,5	-0.4577	-0.0967	-161.93	-22.8359	-4.8231	SLU 17	49.891	Si
6.32	0.007847	5.3	0	1,5	-0.2473	-0.0535	-159.61	-13.0158	-2.8145	SLU 17	52.629	Si
6.6	0.00919	5.3	0	1,5	-0.0406	-0.011	-157.34	-2.2993	-0.6252	SLU 17	56.627	Si

1.1.2.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.8	0.007487	3.1	0	1,3,4	16.1219	-12.3799	-303.91	506.1858	-388.6957	SLV 3	31.397				Si
-0.77	0.007468	3.1	0	1,3,4	15.9279	-12.1201	-303.76	502.8236	-382.6175	SLV 3	31.569				Si
-0.47	0.007231	3.1	0	1,3,4	13.8253	-9.8551	-301.88	459.7788	-327.7471	SLV 3	33.256				Si
-0.17	0.006999	2.8	0	1,4	12.5274	-1.0041	-299.99	447.381	-35.8575	SLV 1	35.712				Si
0.13	0.006999	2.8	0	1,4	-15.1365	-5.849	-298.1	-514.0838	-198.6517	SLV 16	33.963				Si
0.44	0.006999	2.8	0	1,4	-22.7809	-6.2176	-296.22	-688.0877	-187.8014	SLV 12	30.205				Si
0.74	0.006999	2.8	0	1,4	-31.1955	-9.0605	-294.34	-810.3235	-235.3514	SLV 12	25.976				Si
1.04	0.006999	2.8	0	1,4	-39.8178	-12.1406	-292.45	-884.0935	-269.5638	SLV 12	22.203				Si
1.34	0.006999	2.8	0	1,4	-48.5352	-15.2953	-290.56	-927.3515	-292.2442	SLV 12	19.107				Si
1.64	0.006999	2.8	0	1,4	-57.3078	-18.4818	-288.68	-951.8464	-306.9708	SLV 12	16.609				Si
1.94	0.006999	2.8	0	1,4	-66.1168	-21.6847	-286.79	-953.6179	-312.7636	SLV 12	14.423				Si
2.25	0.006999	2.8	0	1,4	-74.9515	-24.8972	-284.91	-938.0552	-311.6008	SLV 12	12.515				Si
2.55	0.006999	2.8	0	1,4	-83.8053	-28.1158	-283.02	-922.1968	-309.3871	SLV 12	11.004				Si
2.85	0.006999	2.8	0	1,4	-92.6738	-31.3385	-281.14	-906.1948	-306.4377	SLV 12	9.778				Si
3.15	0.006999	2.8	0	1,4	-101.3116	-34.4761	-279.3	-893.592	-304.0868	SLV 12	8.82				Si
3.15	0.006999	2.8	0	1,4	-101.4066	-34.5106	-279.28	-893.4656	-304.0629	SLV 12	8.811				Si
3.75	0.006999	3.1	0	1,4,5	-106.0293	-36.8195	-114.85	-727.1482	-252.5078	SLV 12	6.858				Si
4.04	0.006999	3.1	0	1,4,5	-95.6092	-33.0674	-113.07	-738.9019	-255.557	SLV 12	7.728				Si
4.32	0.006999	3.1	0	1,4,5	-85.1891	-29.3154	-111.29	-754.2398	-259.5501	SLV 12	8.854				Si
4.61	0.006999	2.8	0	1,5	-74.7689	-25.5633	-109.51	-774.0917	-264.6603	SLV 12	10.353				Si
4.89	0.006999	2.8	0	1,5	-64.3488	-21.8113	-107.73	-799.2766	-270.9181	SLV 12	12.421				Si
5.18	0.006999	2.8	0	1,5	-53.9287	-18.0593	-105.94	-834.9474	-279.6012	SLV 12	15.482				Si
5.46	0.006999	2.8	0	1,5	-43.5086	-14.3072	-104.16	-874.5647	-287.5891	SLV 12	20.101				Si
5.75	0.006999	2.8	0	1,5	-32.8821	-10.5242	-102.35	-920.0853	-294.4815	SLV 11	27.981				Si
6.03	0.006999	2.8	0	1,5	-22.6521	-6.8266	-100.6	-967.3694	-291.5314	SLV 11	42.705				Si
6.32	0.007847	5.3	0	1,5	-12.2482	-3.0516	-98.82	-903.2784	-225.0512	SLV 12	73.748				Si
6.6	0.00919	5.3	0	1,5	-0.1575	-0.7518	-97.07	-19.3462	-92.343	SLV 3	122.829				Si

1.1.2.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.006999	2.8	0	1,2	38.2901	10.225	-186.4	982.5674	262.3861	SLD 1	25.661	Si
-5.9	0.006999	2.8	0	1,2	34.3058	10.0739	-186.07	955.1101	280.467	SLD 1	27.841	Si
-5.6	0.006999	2.8	0	1,2	12.3926	9.2445	-184.23	575.4344	429.255	SLD 1	46.434	Si
-5.3	0.006999	2.8	0	1,2	2.9861	8.1489	-173.95	178.5835	487.3386	SLD 1	59.804	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.8	0.007487	3.1	0	1,3,4	7.1157	-6.0128	-303.91	262.7304	-222.0084	SLD 3	36.923	Si
-0.77	0.007468	3.1	0	1,3,4	7.0263	-5.8984	-303.76	259.3803	-217.7453	SLD 3	36.916	Si
-0.47	0.007231	3.1	0	1,3,4	6.0471	-4.8964	-301.88	222.6729	-180.3001	SLD 3	36.823	Si
-0.17	0.006999	2.8	0	1,4	4.2021	-1.4312	-299.99	154.3688	-52.5768	SLD 3	36.736	Si
0.13	0.006999	2.8	0	1,4	3.4346	0.5785	-298.11	126.9734	21.3849	SLD 3	36.968	Si
0.44	0.006999	2.8	0	1,4	2.6662	1.5059	-296.22	99.1919	56.026	SLD 3	37.204	Si
0.74	0.006999	2.8	0	1,4	-13.5342	-4.4297	-294.34	-479.6465	-156.9861	SLD 12	35.44	Si
1.04	0.006999	2.8	0	1,4	-17.3001	-5.7281	-292.45	-576.1924	-190.78	SLD 12	33.306	Si
1.34	0.006999	2.8	0	1,4	-21.108	-7.0584	-290.56	-658.2868	-220.1281	SLD 12	31.187	Si
1.64	0.006999	2.8	0	1,4	-24.9402	-8.4022	-288.68	-726.0336	-244.5967	SLD 12	29.111	Si
1.94	0.006999	2.8	0	1,4	-28.7885	-9.753	-286.79	-780.4035	-264.3871	SLD 12	27.108	Si
2.25	0.006999	2.8	0	1,4	-32.648	-11.1079	-284.91	-823.6655	-280.2377	SLD 12	25.229	Si
2.55	0.006999	2.8	0	1,4	-36.5159	-12.4654	-283.02	-858.2937	-292.994	SLD 12	23.505	Si
2.85	0.006999	2.8	0	1,4	-40.3903	-13.8246	-281.14	-884.3717	-302.6981	SLD 12	21.896	Si
3.15	0.006999	2.8	0	1,4	-44.1639	-15.1479	-279.3	-905.7475	-310.6651	SLD 12	20.509	Si
3.15	0.006999	2.8	0	1,4	-44.2054	-15.1625	-279.28	-905.9428	-310.7386	SLD 12	20.494	Si
3.75	0.006999	3.1	0	1,4,5	-46.2311	-16.1056	-114.85	-871.7695	-303.6997	SLD 12	18.857	Si
4.04	0.006999	3.1	0	1,4,5	-41.6592	-14.509	-113.07	-887.0903	-308.9547	SLD 11	21.294	Si
4.32	0.006999	3.1	0	1,4,5	-37.1189	-12.8635	-111.29	-899.9443	-311.8741	SLD 11	24.245	Si
4.61	0.006999	2.8	0	1,5	-32.5786	-11.218	-109.51	-916.2298	-315.4904	SLD 11	28.124	Si
4.89	0.006999	2.8	0	1,5	-28.0383	-9.5724	-107.73	-933.6757	-318.7625	SLD 11	33.3	Si
5.18	0.006999	2.8	0	1,5	-23.498	-7.9269	-105.94	-947.5436	-319.6487	SLD 11	40.324	Si
5.46	0.006999	2.8	0	1,5	-18.9577	-6.2814	-104.16	-936.3877	-310.2609	SLD 11	49.394	Si
5.75	0.006999	2.8	0	1,5	-14.3476	-4.5925	-102.35	-886.1228	-283.638	SLD 12	61.761	Si
6.03	0.006999	2.8	0	1,5	-9.8839	-2.9807	-100.6	-780.765	-235.457	SLD 12	78.994	Si
6.32	0.007847	5.3	0	1,5	-5.3405	-1.3403	-98.82	-559.4045	-140.3894	SLD 12	104.748	Si
6.6	0.00919	5.3	0	1,5	-0.0822	-0.3258	-97.07	-10.0967	-40.0169	SLD 3	122.831	Si

1.1.2.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.8	34.407	1961	1.347	0.368	1.298	SLV 7	Si
-0.77	35.392	1961	1.347	0.368	1.298	SLV 7	Si
-0.47	45.051	1961	1.347	0.368	1.298	SLV 3	Si
-0.17	54.525	1961	1.347	0.368	1.298	SLV 1	Si
0.13	43.82	1961	1.347	0.368	1.298	SLV 1	Si
0.44	29.639	1961	1.347	0.368	1.298	SLV 12	Si
0.74	21.586	1961	1.347	0.368	1.298	SLV 12	Si
1.04	16.833	1961	1.347	0.368	1.298	SLV 12	Si
1.34	13.773	1961	1.347	0.368	1.298	SLV 12	Si
1.64	11.635	1961	1.347	0.368	1.298	SLV 12	Si
1.94	10.067	1961	1.347	0.368	1.298	SLV 12	Si
2.25	8.866	1961	1.347	0.368	1.298	SLV 12	Si
2.55	7.918	1961	1.347	0.368	1.298	SLV 12	Si
2.85	7.152	1961	1.347	0.368	1.298	SLV 12	Si
3.15	6.537	1961	1.347	0.368	1.298	SLV 11	Si
3.15	6.523	1961	1.347	0.368	1.298	SLV 12	Si
3.75	5.983	1961	1.347	0.368	1.298	SLV 12	Si
4.04	6.633	1961	1.347	0.368	1.298	SLV 11	Si
4.32	7.453	1961	1.347	0.368	1.298	SLV 11	Si
4.61	8.485	1961	1.347	0.368	1.298	SLV 11	Si
4.89	9.862	1961	1.347	0.368	1.298	SLV 11	Si
5.18	11.781	1961	1.347	0.368	1.298	SLV 11	Si
5.46	14.594	1961	1.347	0.368	1.298	SLV 11	Si
5.75	19.346	1961	1.347	0.368	1.298	SLV 5	Si
6.03	28.125	1961	1.347	0.368	1.298	SLV 11	Si
6.32	57.971	1961	1.347	0.368	1.298	SLV 5	Si
6.6	399.221	1961	1.347	0.368	1.298	SLV 5	Si

1.1.2.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.8	80.003	1961	3.374	0.368	3.05	SLD 7	Si
-0.77	82.235	1961	3.374	0.368	3.05	SLD 7	Si
-0.47	104.932	1961	3.374	0.368	3.05	SLD 3	Si
-0.17	127.256	1961	3.374	0.368	3.05	SLD 1	Si
0.13	102.203	1961	3.374	0.368	3.05	SLD 16	Si
0.44	69.337	1961	3.374	0.368	3.05	SLD 5	Si
0.74	50.403	1961	3.374	0.368	3.05	SLD 12	Si
1.04	39.329	1961	3.374	0.368	3.05	SLD 12	Si
1.34	32.131	1961	3.374	0.368	3.05	SLD 12	Si
1.64	27.156	1961	3.374	0.368	3.05	SLD 12	Si
1.94	23.493	1961	3.374	0.368	3.05	SLD 12	Si
2.25	20.678	1961	3.374	0.368	3.05	SLD 12	Si
2.55	18.468	1961	3.374	0.368	3.05	SLD 12	Si
2.85	16.682	1961	3.374	0.368	3.05	SLD 12	Si
3.15	15.238	1961	3.374	0.368	3.05	SLD 12	Si
3.15	15.238	1961	3.374	0.368	3.05	SLD 11	Si
3.75	13.949	1961	3.374	0.368	3.05	SLD 12	Si
4.04	15.473	1961	3.374	0.368	3.05	SLD 11	Si
4.32	17.378	1961	3.374	0.368	3.05	SLD 11	Si
4.61	19.8	1961	3.374	0.368	3.05	SLD 11	Si
4.89	23.009	1961	3.374	0.368	3.05	SLD 11	Si
5.18	27.459	1961	3.374	0.368	3.05	SLD 11	Si
5.46	34.038	1961	3.374	0.368	3.05	SLD 12	Si
5.75	45.112	1961	3.374	0.368	3.05	SLD 11	Si
6.03	65.616	1961	3.374	0.368	3.05	SLD 11	Si
6.32	135.224	1961	3.374	0.368	3.05	SLD 5	Si
6.6	932.09	1961	3.374	0.368	3.05	SLD 5	Si

1.1.2.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.8	2X/2Y ø8/14.9	0.36	-403.86	SLU 14	173.87	263.84	1018.96	2.5	737.89	-0.8	-415.53	SLU 13	174.28	261.6	1011.95	2.5	326.86	Si
-0.77	2X/2Y ø8/14.9	0.36	-403.67	SLU 14	173.84	263.84	1018.93	2.5	737.89	-0.8	-415.34	SLU 13	174.25	261.6	1011.93	2.5	326.86	Si
-0.47	2X/2Y ø8/14.9	0.36	-401.22	SLU 14	173.51	263.84	1018.59	2.5	737.89	-0.8	-412.89	SLU 13	173.92	261.6	1011.58	2.5	326.86	Si
-0.17	2X/2Y ø8/14.9	0.36	-398.77	SLU 14	173.17	263.84	1018.24	2.5	737.89	-0.8	-410.44	SLU 13	173.59	261.6	1011.24	2.5	326.86	Si
0.13	2X/2Y ø8/14.9	0.36	-396.32	SLU 14	172.84	263.84	1017.89	2.5	737.89	-0.8	-407.99	SLU 13	173.26	261.6	1010.89	2.5	326.86	Si
0.44	2X/2Y ø8/14.9	0.36	-393.87	SLU 14	172.5	263.84	1017.54	2.5	737.89	-0.8	-405.54	SLU 13	172.92	261.6	1010.55	2.5	326.86	Si
0.74	2X/2Y ø8/14.9	0.36	-391.42	SLU 14	172.16	263.84	1017.2	2.5	737.89	-0.8	-403.08	SLU 13	172.59	261.6	1010.2	2.5	326.86	Si
1.04	2X/2Y ø8/14.9	0.36	-388.97	SLU 14	171.83	263.84	1016.85	2.5	737.89	-0.8	-400.63	SLU 13	172.26	261.6	1009.86	2.5	326.86	Si
1.34	2X/2Y ø8/14.9	0.36	-386.51	SLU 14	171.49	263.84	1016.5	2.5	737.89	-0.8	-398.18	SLU 13	171.92	261.6	1009.51	2.5	326.86	Si
1.64	2X/2Y ø8/14.9	0.36	-384.06	SLU 14	171.16	263.84	1016.15	2.5	737.89	-0.8	-395.73	SLU 13	171.59	261.6	1009.17	2.5	326.86	Si
1.94	2X/2Y ø8/14.9	0.36	-381.61	SLU 14	170.82	263.84	1015.8	2.5	737.89	-0.8	-393.28	SLU 13	171.26	261.6	1008.82	2.5	326.86	Si
2.25	2X/2Y ø8/14.9	0.36	-379.16	SLU 14	170.48	263.84	1015.46	2.5	737.89	-0.8	-390.83	SLU 13	170.92	261.6	1008.48	2.5	326.86	Si
2.55	2X/2Y ø8/14.9	0.36	-376.71	SLU 14	170.15	263.84	1015.11	2.5	737.89	-0.8	-388.38	SLU 13	170.59	261.6	1008.13	2.5	326.86	Si
2.85	2X/2Y ø8/14.9	0.36	-374.26	SLU 14	169.81	263.84	1014.76	2.5	737.89	-0.8	-385.93	SLU 13	170.26	261.6	1007.79	2.5	326.86	Si
3.15	2X/2Y ø8/14.9	0.36	-371.88	SLU 14	169.49	263.84	1014.42	2.5	737.89	-0.8	-383.54	SLU 13	169.93	261.6	1007.45	2.5	326.86	Si
3.15	2X/2Y ø8/14.9	0.36	-371.85	SLU 14	169.48	263.84	1014.42	2.5	737.89	-0.8	-383.52	SLU 13	169.93	261.6	1007.45	2.5	326.86	Si
3.75	2X/2Y ø8/14.9	0.19	-168.5	SLU 13	141.6	263.84	985.58	2.5	1414.19	0.9	-168.5	SLU 13	140.7	261.6	977.22	2.5	292.22	Si
4.04	2X/2Y ø8/14.9	0.19	-166.19	SLU 13	141.29	263.84	985.25	2.5	1414.19	0.9	-166.19	SLU 13	140.39	261.6	976.89	2.5	292.22	Si
4.32	2X/2Y ø8/14.9	0.19	-163.87	SLU 13	140.97	263.84	984.92	2.5	1414.19	0.9	-163.87	SLU 13	140.07	261.6	976.56	2.5	292.22	Si
4.61	2X/2Y ø8/14.9	0.19	-161.56	SLU 13	140.65	263.84	984.59	2.5	1414.19	0.9	-161.56	SLU 13	139.76	261.6	976.24	2.5	292.22	Si
4.89	2X/2Y ø8/14.9	0.19	-159.24	SLU 13	140.33	263.84	984.27	2.5	1414.19	0.9	-159.24	SLU 13	139.44	261.6	975.91	2.5	292.22	Si
5.18	2X/2Y ø8/14.9	0.19	-156.93	SLU 13	140.02	263.84	983.94	2.5	1414.19	0.9	-156.93	SLU 13	139.13	261.6	975.59	2.5	292.22	Si
5.46	2X/2Y ø8/14.9	0.19	-154.61	SLU 13	139.7	263.84	983.61	2.5	1414.19	0.9	-154.61	SLU 13	138.81	261.6	975.26	2.5	292.22	Si
5.75	2X/2Y ø8/10	0.19	-152.25	SLU 13	139.38	391.99	983.28	2.5	2101.08	0.9	-152.25	SLU 13	138.49	388.66	974.93	2.5	434.15	Si
6.03	2X/2Y ø8/10	0.19	-149.98	SLU 13	139.06	391.99	982.95	2.5	2101.08	0.9	-149.98	SLU 13	138.18	388.66	974.61	2.5	434.15	Si
6.32	2X/2Y ø8/10	0.19	-147.66	SLU 13	138.75	391.99	982.62	2.5	2101.08	0.9	-147.66	SLU 13	138.07	389.41	976.17	2.5	434.99	Si
6.6	2X/2Y ø8/10	0.19	-145.39	SLU 13	138.43	391.99	982.3	2.5	2101.08	0.9	-145.39	SLU 13	137.76	389.41	975.85	2.5	434.99	Si

1.1.2.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.8	2X/2Y ø8/14.9	16.09	-303.91	SLV 2	160.17	263.84	1004.78	2.5	16.4	-29.75	-303.91	SLV 7	159.11	261.6	996.26	2.5	8.79	Si
-0.77	2X/2Y ø8/14.9	16.09	-303.76	SLV 2	160.15	263.84	1004.76	2.5	16.4	-29.75	-303.76	SLV 7	159.09	261.6	996.24	2.5	8.79	Si
-0.47	2X/2Y ø8/14.9	16.09	-301.88	SLV 2	159.89	263.84	1004.5	2.5	16.4	-29.75	-301.88	SLV 7	158.83	261.6	995.97	2.5	8.79	Si
-0.17	2X/2Y ø8/14.9	16.09	-299.99	SLV 2	159.63	263.84	1004.23	2.5	16.4	-29.75	-299.99	SLV 7	158.58	261.6	995.71	2.5	8.79	Si
0.13	2X/2Y ø8/14.9	16.09	-298.11	SLV 2	159.37	263.84	1003.96	2.5	16.4	-29.75	-298.11	SLV 7	158.32	261.6	995.44	2.5	8.79	Si
0.44	2X/2Y ø8/14.9	16.09	-296.22	SLV 2	159.11	263.84	1003.69	2.5	16.4	-29.75	-296.22	SLV 7	158.06	261.6	995.18	2.5	8.79	Si
0.74	2X/2Y ø8/14.9	16.09	-294.34	SLV 2	158.85	263.84	1003.43	2.5	16.4	-29.75	-294.34	SLV 7	157.81	261.6	994.91	2.5	8.79	Si
1.04	2X/2Y ø8/14.9	16.09	-292.45	SLV 2	158.6	263.84	1003.16	2.5	16.4	-29.75	-292.45	SLV 7	157.55	261.6	994.65	2.5	8.79	Si
1.34	2X/2Y ø8/14.9	16.09	-290.57	SLV 2	158.34	263.84	1002.89	2.5	16.4	-29.75	-290.57	SLV 7	157.29	261.6	994.38	2.5	8.79	Si
1.64	2X/2Y ø8/14.9	16.09	-288.68	SLV 2	158.08	263.84	1002.62	2.5	16.4	-29.75	-288.68	SLV 7	157.04	261.6	994.11	2.5	8.79	Si
1.94	2X/2Y ø8/14.9	16.09	-286.79	SLV 2	157.82	263.84	1002.36	2.5	16.4	-29.75	-286.79	SLV 7	156.78	261.6	993.85	2.5	8.79	Si
2.25	2X/2Y ø8/14.9	16.09	-284.91	SLV 2	157.56	263.84	1002.09	2.5	16.4	-29.75	-284.91	SLV 7	156.52	261.6	993.58	2.5	8.79	Si
2.55	2X/2Y ø8/14.9	16.09	-283.02	SLV 2	157.3	263.84	1001.82	2.5	16.4	-29.75	-283.02	SLV 7	156.27	261.6	993.32	2.5	8.79	Si
2.85	2X/2Y ø8/14.9	16.09	-281.14	SLV 2	157.05	263.84	1001.55	2.5	16.4	-29.75	-281.14	SLV 7	156.01	261.6	993.05	2.5	8.79	Si
3.15	2X/2Y ø8/14.9	16.09	-279.3	SLV 2	156.79	263.84	1001.29	2.5	16.4	-29.75	-279.3	SLV 7	155.76	261.6	992.8	2.5	8.79	Si
3.15	2X/2Y ø8/14.9	16.09	-279.28	SLV 2	156.79	263.84	1001.29	2.5	16.4	-29.75	-279.28	SLV 7	155.76	261.6	992.79	2.5	8.79	Si
3.75	2X/2Y ø8/14.9	18.75	-114.85	SLV 15	134.25	263.84	977.97	2.5	14.07	36.56	-114.85	SLV 12	133.41	261.6	969.67	2.5	7.15	Si
4.04	2X/2Y ø8/14.9	18.75	-113.07	SLV 15	134	263.84	977.72	2.5	14.07	36.56	-113.07	SLV 12	133.17	261.6	969.42	2.5	7.15	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
4.32	2X/2Y ø8/14.9	18.75	-111.29	SLV 15	133.76	263.84	977.47	2.5	14.07	36.56	-111.29	SLV 12	132.92	261.6	969.17	2.5	7.15	Si
4.61	2X/2Y ø8/14.9	18.75	-109.51	SLV 15	133.51	263.84	977.21	2.5	14.07	36.56	-109.51	SLV 12	132.68	261.6	968.92	2.5	7.15	Si
4.89	2X/2Y ø8/14.9	18.75	-107.72	SLV 15	133.27	263.84	976.96	2.5	14.07	36.56	-107.73	SLV 12	132.44	261.6	968.67	2.5	7.15	Si
5.18	2X/2Y ø8/14.9	18.75	-105.94	SLV 15	133.03	263.84	976.71	2.5	14.07	36.56	-105.94	SLV 12	132.2	261.6	968.42	2.5	7.15	Si
5.46	2X/2Y ø8/14.9	18.75	-104.16	SLV 15	132.78	263.84	976.45	2.5	14.07	36.56	-104.16	SLV 12	131.95	261.6	968.17	2.5	7.15	Si
5.75	2X/2Y ø8/10	18.75	-102.35	SLV 15	132.53	391.99	976.2	2.5	20.9	36.56	-102.35	SLV 12	131.71	388.66	967.91	2.5	10.63	Si
6.03	2X/2Y ø8/10	18.75	-100.6	SLV 15	132.29	391.99	975.95	2.5	20.9	36.56	-100.6	SLV 12	131.47	388.66	967.67	2.5	10.63	Si
6.32	2X/2Y ø8/10	18.75	-98.82	SLV 15	132.05	391.99	975.7	2.5	20.9	36.56	-98.82	SLV 12	131.41	389.41	969.29	2.5	10.65	Si
6.6	2X/2Y ø8/10	18.75	-97.07	SLV 15	131.81	391.99	975.45	2.5	20.9	36.56	-97.07	SLV 12	131.18	389.41	969.05	2.5	10.65	Si

1.1.2.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.975	-5.95	3.45	X	4.75	0.144	0.5	0.0305	0.000106	0.03444	0	160.317	1457.162	263.837	105.535	202.727	263.837	16.086	-305.003	SLV 2	Si
-0.975	-5.95	3.45	Y	4.75	0.144	0.5	0.0305	0.000009	0.03416	0	159.256	1444.795	261.597	104.639	201.091	261.597	-29.749	-305.003	SLV 7	Si

1.1.2.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.8	2X/2Y ø8/14.9	7.05	-303.91	SLD 2	160.17	263.84	1004.78	2.5	37.42	-12.99	-303.91	SLD 7	159.11	261.6	996.26	2.5	20.13	Si
-0.77	2X/2Y ø8/14.9	7.05	-303.76	SLD 2	160.15	263.84	1004.76	2.5	37.42	-12.99	-303.76	SLD 7	159.09	261.6	996.24	2.5	20.13	Si
-0.47	2X/2Y ø8/14.9	7.05	-301.88	SLD 2	159.89	263.84	1004.5	2.5	37.42	-12.99	-301.88	SLD 7	158.83	261.6	995.97	2.5	20.13	Si
-0.17	2X/2Y ø8/14.9	7.05	-299.99	SLD 2	159.63	263.84	1004.23	2.5	37.42	-12.99	-299.99	SLD 7	158.57	261.6	995.71	2.5	20.13	Si
0.13	2X/2Y ø8/14.9	7.05	-298.11	SLD 2	159.37	263.84	1003.96	2.5	37.42	-12.99	-298.11	SLD 7	158.32	261.6	995.44	2.5	20.13	Si
0.44	2X/2Y ø8/14.9	7.05	-296.22	SLD 2	159.11	263.84	1003.69	2.5	37.42	-12.99	-296.22	SLD 7	158.06	261.6	995.18	2.5	20.13	Si
0.74	2X/2Y ø8/14.9	7.05	-294.34	SLD 2	158.85	263.84	1003.43	2.5	37.42	-12.99	-294.34	SLD 7	157.81	261.6	994.91	2.5	20.13	Si
1.04	2X/2Y ø8/14.9	7.05	-292.45	SLD 2	158.6	263.84	1003.16	2.5	37.42	-12.99	-292.45	SLD 7	157.55	261.6	994.65	2.5	20.13	Si
1.34	2X/2Y ø8/14.9	7.05	-290.56	SLD 2	158.34	263.84	1002.89	2.5	37.42	-12.99	-290.56	SLD 7	157.29	261.6	994.38	2.5	20.13	Si
1.64	2X/2Y ø8/14.9	7.05	-288.68	SLD 2	158.08	263.84	1002.62	2.5	37.42	-12.99	-288.68	SLD 7	157.04	261.6	994.11	2.5	20.13	Si
1.94	2X/2Y ø8/14.9	7.05	-286.79	SLD 2	157.82	263.84	1002.36	2.5	37.42	-12.99	-286.79	SLD 7	156.78	261.6	993.85	2.5	20.13	Si
2.25	2X/2Y ø8/14.9	7.05	-284.91	SLD 2	157.56	263.84	1002.09	2.5	37.42	-12.99	-284.91	SLD 7	156.52	261.6	993.58	2.5	20.13	Si
2.55	2X/2Y ø8/14.9	7.05	-283.02	SLD 2	157.3	263.84	1001.82	2.5	37.42	-12.99	-283.02	SLD 7	156.27	261.6	993.32	2.5	20.13	Si
2.85	2X/2Y ø8/14.9	7.05	-281.14	SLD 2	157.05	263.84	1001.55	2.5	37.42	-12.99	-281.14	SLD 7	156.01	261.6	993.05	2.5	20.13	Si
3.15	2X/2Y ø8/14.9	7.05	-279.3	SLD 2	156.79	263.84	1001.29	2.5	37.42	-12.99	-279.3	SLD 7	155.76	261.6	992.8	2.5	20.13	Si
3.15	2X/2Y ø8/14.9	7.05	-279.28	SLD 2	156.79	263.84	1001.29	2.5	37.42	-12.99	-279.28	SLD 7	155.76	261.6	992.79	2.5	20.13	Si
3.75	2X/2Y ø8/14.9	8.12	-114.85	SLD 15	134.25	263.84	977.97	2.5	32.49	15.94	-114.85	SLD 12	133.41	261.6	969.67	2.5	16.41	Si
4.04	2X/2Y ø8/14.9	8.12	-113.07	SLD 15	134	263.84	977.72	2.5	32.49	15.94	-113.07	SLD 12	133.17	261.6	969.42	2.5	16.41	Si
4.32	2X/2Y ø8/14.9	8.12	-111.29	SLD 15	133.76	263.84	977.47	2.5	32.49	15.94	-111.29	SLD 12	132.92	261.6	969.17	2.5	16.41	Si
4.61	2X/2Y ø8/14.9	8.12	-109.51	SLD 15	133.51	263.84	977.21	2.5	32.49	15.94	-109.51	SLD 12	132.68	261.6	968.92	2.5	16.41	Si
4.89	2X/2Y ø8/14.9	8.12	-107.72	SLD 15	133.27	263.84	976.96	2.5	32.49	15.94	-107.73	SLD 12	132.44	261.6	968.67	2.5	16.41	Si
5.18	2X/2Y ø8/14.9	8.12	-105.94	SLD 15	133.03	263.84	976.71	2.5	32.49	15.94	-105.94	SLD 12	132.2	261.6	968.42	2.5	16.41	Si
5.46	2X/2Y ø8/14.9	8.12	-104.16	SLD 15	132.78	263.84	976.45	2.5	32.49	15.94	-104.16	SLD 12	131.95	261.6	968.17	2.5	16.41	Si
5.75	2X/2Y ø8/10	8.12	-102.35	SLD 15	132.53	391.99	976.2	2.5	48.27	15.94	-102.35	SLD 12	131.71	388.66	967.91	2.5	24.38	Si
6.03	2X/2Y ø8/10	8.12	-100.6	SLD 15	132.29	391.99	975.95	2.5	48.27	15.94	-100.6	SLD 12	131.47	388.66	967.67	2.5	24.38	Si
6.32	2X/2Y ø8/10	8.12	-98.82	SLD 15	132.05	391.99	975.7	2.5	48.27	15.94	-98.82	SLD 12	131.41	389.41	969.29	2.5	24.43	Si
6.6	2X/2Y ø8/10	8.12	-97.07	SLD 15	131.81	391.99	975.45	2.5	48.27	15.94	-97.07	SLD 12	131.18	389.41	969.05	2.5	24.43	Si

1.1.2.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.8	8.91	1961	1.347	0.368	1.298	SLV 7	Si
-0.77	8.91	1961	1.347	0.368	1.298	SLV 7	Si
-0.47	8.91	1961	1.347	0.368	1.298	SLV 7	Si
-0.17	8.91	1961	1.347	0.368	1.298	SLV 7	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0.13	8.91	1961	1.347	0.368	1.298	SLV 7	Si
0.44	8.91	1961	1.347	0.368	1.298	SLV 7	Si
0.74	8.91	1961	1.347	0.368	1.298	SLV 7	Si
1.04	8.91	1961	1.347	0.368	1.298	SLV 7	Si
1.34	8.91	1961	1.347	0.368	1.298	SLV 7	Si
1.64	8.91	1961	1.347	0.368	1.298	SLV 7	Si
1.94	8.91	1961	1.347	0.368	1.298	SLV 7	Si
2.25	8.91	1961	1.347	0.368	1.298	SLV 7	Si
2.55	8.91	1961	1.347	0.368	1.298	SLV 7	Si
2.85	8.91	1961	1.347	0.368	1.298	SLV 7	Si
3.15	8.91	1961	1.347	0.368	1.298	SLV 7	Si
3.15	8.91	1961	1.347	0.368	1.298	SLV 7	Si
3.75	7.234	1961	1.347	0.368	1.298	SLV 12	Si
4.04	7.234	1961	1.347	0.368	1.298	SLV 12	Si
4.32	7.234	1961	1.347	0.368	1.298	SLV 12	Si
4.61	7.234	1961	1.347	0.368	1.298	SLV 12	Si
4.89	7.234	1961	1.347	0.368	1.298	SLV 12	Si
5.18	7.234	1961	1.347	0.368	1.298	SLV 12	Si
5.46	7.234	1961	1.347	0.368	1.298	SLV 12	Si
5.75	10.756	1961	1.347	0.368	1.298	SLV 12	Si
6.03	10.756	1961	1.347	0.368	1.298	SLV 12	Si
6.32	10.785	1961	1.347	0.368	1.298	SLV 11	Si
6.6	10.785	1961	1.347	0.368	1.298	SLV 11	Si

1.1.2.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.8	20.769	1961	3.374	0.368	3.05	SLD 7	Si
-0.77	20.769	1961	3.374	0.368	3.05	SLD 7	Si
-0.47	20.769	1961	3.374	0.368	3.05	SLD 7	Si
-0.17	20.769	1961	3.374	0.368	3.05	SLD 7	Si
0.13	20.769	1961	3.374	0.368	3.05	SLD 7	Si
0.44	20.769	1961	3.374	0.368	3.05	SLD 7	Si
0.74	20.769	1961	3.374	0.368	3.05	SLD 7	Si
1.04	20.769	1961	3.374	0.368	3.05	SLD 7	Si
1.34	20.769	1961	3.374	0.368	3.05	SLD 7	Si
1.64	20.769	1961	3.374	0.368	3.05	SLD 7	Si
1.94	20.769	1961	3.374	0.368	3.05	SLD 7	Si
2.25	20.769	1961	3.374	0.368	3.05	SLD 7	Si
2.55	20.769	1961	3.374	0.368	3.05	SLD 7	Si
2.85	20.769	1961	3.374	0.368	3.05	SLD 7	Si
3.15	20.769	1961	3.374	0.368	3.05	SLD 7	Si
3.15	20.769	1961	3.374	0.368	3.05	SLD 7	Si
3.75	16.894	1961	3.374	0.368	3.05	SLD 12	Si
4.04	16.894	1961	3.374	0.368	3.05	SLD 12	Si
4.32	16.894	1961	3.374	0.368	3.05	SLD 12	Si
4.61	16.894	1961	3.374	0.368	3.05	SLD 12	Si
4.89	16.894	1961	3.374	0.368	3.05	SLD 12	Si
5.18	16.894	1961	3.374	0.368	3.05	SLD 12	Si
5.46	16.894	1961	3.374	0.368	3.05	SLD 12	Si
5.75	25.098	1961	3.374	0.368	3.05	SLD 12	Si
6.03	25.098	1961	3.374	0.368	3.05	SLD 12	Si
6.32	25.158	1961	3.374	0.368	3.05	SLD 12	Si
6.6	25.158	1961	3.374	0.368	3.05	SLD 12	Si

1.1.2.4 Verifiche nodi trave colonna

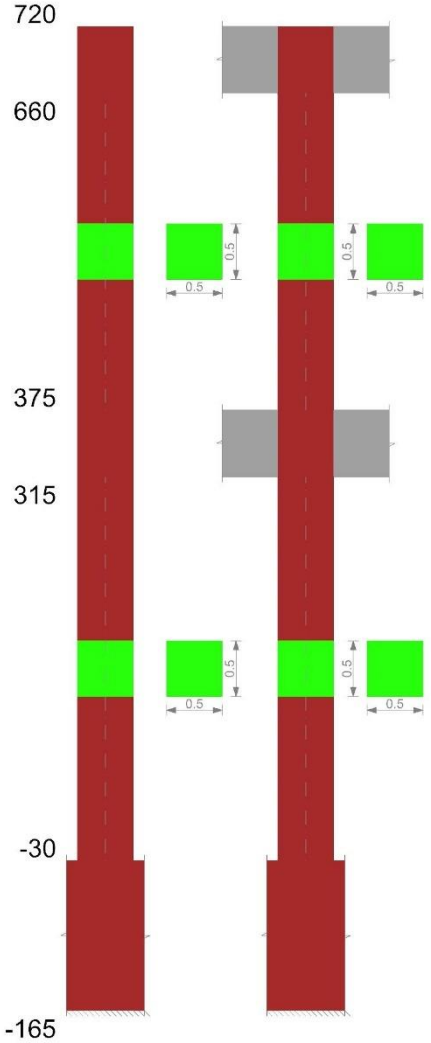
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.2.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.3 P6

Geometria



1.1.3.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.3.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	3.15	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2
3.75	6.6	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2

1.1.3.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2052	-0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2052	-0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	-0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	-0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2052	0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2052	0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.2052	-0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	-0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	-0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	-0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.3	-0.2052	-0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	-0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	-0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	-0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.4	-0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	-0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.5	-0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	-0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.6	-0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	-0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.1	0	-0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0	0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	0	-0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0	0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.7	0	-0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.7	0	0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.1	-0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.7	-0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.7	0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2

1.1.3.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.3.3 Verifiche delle sezioni

1.1.3.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.005894	4.7	0	1,2,4,5	-6.7937	-18.8291	-426.64	-114.1404	-316.3435	SLU 18	16.801	Si
-0.01	0.005894	4.7	0	1,2,4,5	-6.0008	-16.7786	-424.35	-103.7882	-290.2005	SLU 18	17.296	Si
0.28	0.005894	4.7	0	1,2,4,5	-5.1937	-14.6919	-422.01	-92.5373	-261.7669	SLU 18	17.817	Si
0.56	0.005894	3.2	0	2,4,5	-4.3867	-12.6051	-419.68	-80.0605	-230.0527	SLU 18	18.251	Si
0.85	0.005894	3.2	0	2,4,5	-3.5797	-10.5184	-417.34	-65.6974	-193.0428	SLU 18	18.353	Si
1.14	0.005894	2.4	0	2,5	-2.7727	-8.4317	-415	-51.1727	-155.6163	SLU 18	18.456	Si
1.43	0.005894	2.4	0	2,5	-1.9656	-6.3449	-412.67	-36.4835	-117.7661	SLU 18	18.561	Si
1.71	0.005894	2.4	0	2,5	-1.1586	-4.2582	-410.33	-21.6271	-79.4849	SLU 18	18.666	Si
2	0.005894	2.4	0	2,5	-0.3516	-2.1715	-408	-6.6006	-40.7654	SLU 18	18.773	Si
2.29	0.005894	2.4	0	2,5	0.4554	-0.0847	-405.66	8.599	-1.6	SLU 18	18.881	Si
2.58	0.005894	2.4	0	2,5	1.2624	2.002	-403.33	23.9747	38.0191	SLU 18	18.991	Si
2.86	0.005894	2.4	0	2,5	2.0695	4.0887	-400.99	39.5294	78.0998	SLU 18	19.101	Si
3.15	0.005894	2.4	0	2,5	2.8625	6.1392	-398.69	54.9913	117.9409	SLU 18	19.211	Si
3.75	0.005894	4.7	0	2,3,5,6,7	3.7413	8.4282	-203.67	132.879	299.3433	SLU 18	35.517	Si
4.04	0.005894	4.7	0	2,3,5,6,7	3.3736	7.5967	-201.36	123.574	278.265	SLU 18	36.63	Si
4.32	0.005894	4.7	0	2,3,5,6,7	3.0059	6.7653	-199.04	113.6198	255.7169	SLU 18	37.799	Si
4.61	0.005894	3.2	0	3,5,6,7	2.6383	5.9338	-196.73	102.718	231.0271	SLU 18	38.934	Si
4.89	0.005894	3.2	0	3,5,6,7	2.2706	5.1023	-194.41	89.4558	201.021	SLU 18	39.398	Si
5.18	0.005894	2.4	0	3,6,7	1.9029	4.2709	-192.1	75.8738	170.2915	SLU 18	39.873	Si
5.46	0.005894	2.4	0	3,6,7	1.5352	3.4394	-189.78	61.9603	138.812	SLU 18	40.359	Si
5.75	0.005894	2.4	0	3,6,7	1.1611	2.5934	-187.42	47.4499	105.9819	SLU 18	40.867	Si
6.03	0.005894	2.4	0	3,6,7	0.7999	1.7765	-185.15	33.0893	73.4909	SLU 18	41.369	Si
6.32	0.005744	2.4	0	3,6,7	0.4322	0.945	-182.83	17.9713	39.2963	SLU 18	41.583	Si
6.6	0.004982	2.4	0	3,6,7	0.071	0.1281	-180.56	2.8742	5.1905	SLU 18	40.507	Si

1.1.3.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.005894	4.7	0	1,2,4,5	-43.5551	-104.8106	-282.4	-313.7675	-755.0469	SLV 16	7.204				Si
-0.01	0.005894	4.7	0	1,2,4,5	-40.5269	-104.8065	-280.63	-297.1938	-768.5726	SLV 16	7.333				Si
0.28	0.005894	4.7	0	1,2,4,5	-37.5924	-105.5477	-278.83	-278.2688	-781.2911	SLV 16	7.402				Si
0.56	0.005894	3.2	0	2,4,5	-34.8279	-107.2639	-277.04	-256.9742	-791.4349	SLV 16	7.378				Si
0.85	0.005894	3.2	0	2,4,5	-32.2689	-107.6164	-275.24	-240.2596	-801.2626	SLV 16	7.446				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
1.14	0.005894	2.4	0	2,5	1.5458	-112.8197	-273.44	12.0176	-877.0793	SLV 14	7.774				Si
1.43	0.005894	2.4	0	2,5	4.5253	-116.1707	-271.65	33.5182	-860.4513	SLV 14	7.407				Si
1.71	0.005894	2.4	0	2,5	7.0898	-119.7637	-269.85	49.9437	-843.6652	SLV 14	7.044				Si
2	0.005894	2.4	0	2,5	19.2861	-123.5552	-268.05	125.8715	-806.3869	SLV 14	6.527				Si
2.29	0.005894	2.4	0	2,5	27.8084	-127.5167	-266.26	169.0859	-775.3517	SLV 14	6.08				Si
2.58	0.005894	2.4	0	2,5	-28.4046	133.5913	-264.47	-162.3065	763.354	SLV 3	5.714				Si
2.86	0.005894	2.4	0	2,5	-29.1762	140.697	-262.67	-155.3868	749.3235	SLV 4	5.326				Si
3.15	0.005894	2.4	0	2,5	-31.2825	147.5931	-260.91	-155.7763	734.9634	SLV 4	4.98				Si
3.75	0.005894	4.7	0	2,3,5,6,7	-32.4912	147.9646	-130.02	-136.4014	621.1708	SLV 4	4.198				Si
4.04	0.005894	4.7	0	2,3,5,6,7	-29.2981	133.368	-128.24	-138.6285	631.0513	SLV 4	4.732				Si
4.32	0.005894	4.7	0	2,3,5,6,7	-26.105	118.7723	-126.46	-141.396	643.3224	SLV 4	5.416				Si
4.61	0.005894	3.2	0	3,5,6,7	-22.9119	104.178	-124.68	-145.0762	659.6466	SLV 4	6.332				Si
4.89	0.005894	3.2	0	3,5,6,7	-19.7188	89.5858	-122.9	-150.0831	681.8528	SLV 4	7.611				Si
5.18	0.005894	2.4	0	3,6,7	-16.5257	74.9968	-121.11	-157.1551	713.2002	SLV 4	9.51				Si
5.46	0.005894	2.4	0	3,6,7	-13.3326	60.4134	-119.33	-167.8829	760.7207	SLV 4	12.592				Si
5.75	0.005894	2.4	0	3,6,7	-10.0835	45.5855	-117.52	-185.0055	836.3747	SLV 4	18.347				Si
6.03	0.005894	2.4	0	3,6,7	-7.3197	31.1171	-115.77	-214.2992	911.0215	SLV 3	29.277				Si
6.32	0.005744	2.4	0	3,6,7	-3.955	16.7582	-113.99	-205.177	869.382	SLV 3	51.878				Si
6.6	0.004982	2.4	0	3,6,7	-0.6162	1.4394	-112.24	-55.942	130.6698	SLV 4	90.784				Si

1.1.3.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.005894	4.7	0	1,2,4,5	-21.1183	-51.309	-282.4	-345.2618	-838.8491	SLD 16	16.349	Si
-0.01	0.005894	4.7	0	1,2,4,5	-19.521	-50.6055	-280.63	-328.1025	-850.5593	SLD 16	16.808	Si
0.28	0.005894	4.7	0	1,2,4,5	-17.9604	-50.2127	-278.84	-308.8481	-863.4594	SLD 16	17.196	Si
0.56	0.005894	3.2	0	2,4,5	-16.4747	-50.2463	-277.04	-287.5776	-877.0848	SLD 16	17.456	Si
0.85	0.005894	3.2	0	2,4,5	-15.0796	-49.6986	-275.24	-269.287	-887.501	SLD 16	17.858	Si
1.14	0.005894	2.4	0	2,5	-13.8026	-47.5167	-273.45	-257.5553	-886.6561	SLD 16	18.66	Si
1.43	0.005894	2.4	0	2,5	-12.6908	-47.2385	-271.65	-240.5946	-895.5538	SLD 16	18.958	Si
1.71	0.005894	2.4	0	2,5	2.6445	-52.8442	-269.85	49.9609	-998.3499	SLD 14	18.892	Si
2	0.005894	2.4	0	2,5	8.1952	-53.7834	-268.05	147.0016	-964.7457	SLD 14	17.938	Si
2.29	0.005894	2.4	0	2,5	12.1824	-54.7964	-266.26	207.5242	-933.444	SLD 14	17.035	Si
2.58	0.005894	2.4	0	2,5	-11.714	57.8385	-264.46	-191.7567	946.8099	SLD 3	16.37	Si
2.86	0.005894	2.4	0	2,5	-12.2862	61.4194	-262.67	-189.569	947.6663	SLD 3	15.429	Si
3.15	0.005894	2.4	0	2,5	-13.0201	64.9876	-260.9	-188.3427	940.0786	SLD 3	14.466	Si
3.75	0.005894	4.7	0	2,3,5,6,7	-12.5902	66.2062	-130.02	-145.9109	767.2817	SLD 4	11.589	Si
4.04	0.005894	4.7	0	2,3,5,6,7	-11.3529	59.675	-128.24	-150.636	791.7997	SLD 4	13.269	Si
4.32	0.005894	4.7	0	2,3,5,6,7	-10.1156	53.1441	-126.46	-156.3737	821.5407	SLD 4	15.459	Si
4.61	0.005894	3.2	0	3,5,6,7	-8.8782	46.6139	-124.67	-163.4767	858.3096	SLD 4	18.413	Si
4.89	0.005894	3.2	0	3,5,6,7	-8.093	39.8606	-122.89	-181.247	892.6972	SLD 3	22.395	Si
5.18	0.005894	2.4	0	3,6,7	-6.7825	33.3696	-121.11	-188.0604	925.2476	SLD 3	27.727	Si
5.46	0.005894	2.4	0	3,6,7	-5.472	26.8809	-119.33	-192.8657	947.4455	SLD 3	35.246	Si
5.75	0.005894	2.4	0	3,6,7	-4.1385	20.2833	-117.52	-187.6063	919.4854	SLD 3	45.332	Si
6.03	0.005894	2.4	0	3,6,7	-2.851	13.9246	-115.77	-169.8692	829.6714	SLD 3	59.583	Si
6.32	0.005744	2.4	0	3,6,7	-1.4544	7.5341	-113.99	-116.0046	600.9332	SLD 4	79.762	Si
6.6	0.004982	2.4	0	3,6,7	-0.2388	0.6601	-112.24	-21.6778	59.9316	SLD 4	90.786	Si

1.1.3.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	5.799	1961	1.347	0.368	1.298	SLV 16	Si
-0.01	5.785	1961	1.347	0.368	1.298	SLV 16	Si
0.28	5.717	1961	1.347	0.368	1.298	SLV 16	Si
0.56	5.594	1961	1.347	0.368	1.298	SLV 16	Si
0.85	5.539	1961	1.347	0.368	1.298	SLV 16	Si
1.14	5.361	1961	1.347	0.368	1.298	SLV 14	Si
1.43	5.143	1961	1.347	0.368	1.298	SLV 14	Si
1.71	4.931	1961	1.347	0.368	1.298	SLV 14	Si
2	4.712	1961	1.347	0.368	1.298	SLV 14	Si
2.29	4.5	1961	1.347	0.368	1.298	SLV 3	Si
2.58	4.302	1961	1.347	0.368	1.298	SLV 4	Si
2.86	4.117	1961	1.347	0.368	1.298	SLV 4	Si
3.15	3.936	1961	1.347	0.368	1.298	SLV 4	Si
3.75	3.789	1961	1.347	0.368	1.298	SLV 4	Si
4.04	4.199	1961	1.347	0.368	1.298	SLV 4	Si
4.32	4.719	1961	1.347	0.368	1.298	SLV 4	Si
4.61	5.382	1961	1.347	0.368	1.298	SLV 4	Si
4.89	6.264	1961	1.347	0.368	1.298	SLV 4	Si
5.18	7.48	1961	1.347	0.368	1.298	SLV 4	Si
5.46	9.291	1961	1.347	0.368	1.298	SLV 4	Si
5.75	12.309	1961	1.347	0.368	1.298	SLV 4	Si
6.03	17.923	1961	1.347	0.368	1.298	SLV 4	Si
6.32	32.623	1961	1.347	0.368	1.298	SLV 4	Si
6.6	333.35	1961	1.347	0.368	1.298	SLV 3	Si

1.1.3.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	13.539	1961	3.374	0.368	3.05	SLD 16	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.01	13.51	1961	3.374	0.368	3.05	SLD 16	Si
0.28	13.363	1961	3.374	0.368	3.05	SLD 16	Si
0.56	13.07	1961	3.374	0.368	3.05	SLD 16	Si
0.85	12.953	1961	3.374	0.368	3.05	SLD 16	Si
1.14	12.514	1961	3.374	0.368	3.05	SLD 14	Si
1.43	12.001	1961	3.374	0.368	3.05	SLD 14	Si
1.71	11.518	1961	3.374	0.368	3.05	SLD 14	Si
2	10.99	1961	3.374	0.368	3.05	SLD 14	Si
2.29	10.492	1961	3.374	0.368	3.05	SLD 13	Si
2.58	10.038	1961	3.374	0.368	3.05	SLD 4	Si
2.86	9.584	1961	3.374	0.368	3.05	SLD 4	Si
3.15	9.174	1961	3.374	0.368	3.05	SLD 4	Si
3.75	8.822	1961	3.374	0.368	3.05	SLD 4	Si
4.04	9.789	1961	3.374	0.368	3.05	SLD 4	Si
4.32	10.99	1961	3.374	0.368	3.05	SLD 4	Si
4.61	12.543	1961	3.374	0.368	3.05	SLD 4	Si
4.89	14.594	1961	3.374	0.368	3.05	SLD 4	Si
5.18	17.408	1961	3.374	0.368	3.05	SLD 4	Si
5.46	21.646	1961	3.374	0.368	3.05	SLD 4	Si
5.75	28.67	1961	3.374	0.368	3.05	SLD 4	Si
6.03	41.79	1961	3.374	0.368	3.05	SLD 4	Si
6.32	75.91	1961	3.374	0.368	3.05	SLD 4	Si
6.6	777.241	1961	3.374	0.368	3.05	SLD 14	Si

1.1.3.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	7.6	-340.98	SLU 7	165.25	391.99	1010.04	2.5	51.57	3.66	-367.61	SLU 15	168.9	391.99	1013.82	2.5	107.16	Si
-0.01	2X/2Y ø8/10	7.6	-339.22	SLU 7	165.01	391.99	1009.79	2.5	51.57	3.66	-365.32	SLU 15	168.59	391.99	1013.49	2.5	107.16	Si
0.28	2X/2Y ø8/10	7.6	-337.42	SLU 7	164.76	391.99	1009.54	2.5	51.57	3.66	-362.98	SLU 15	168.27	391.99	1013.16	2.5	107.16	Si
0.56	2X/2Y ø8/14.9	7.6	-335.62	SLU 7	164.51	263.77	1009.28	2.5	34.7	3.66	-360.64	SLU 15	167.95	263.77	1012.83	2.5	72.1	Si
0.85	2X/2Y ø8/14.9	7.6	-333.83	SLU 7	164.27	263.77	1009.03	2.5	34.7	3.66	-358.31	SLU 15	167.63	263.77	1012.5	2.5	72.1	Si
1.14	2X/2Y ø8/14.9	7.6	-332.03	SLU 7	164.02	263.77	1008.77	2.5	34.7	3.66	-355.97	SLU 15	167.3	263.77	1012.17	2.5	72.1	Si
1.43	2X/2Y ø8/14.9	7.6	-330.23	SLU 7	163.78	263.77	1008.52	2.5	34.7	3.66	-353.64	SLU 15	166.98	263.77	1011.84	2.5	72.1	Si
1.71	2X/2Y ø8/14.9	7.6	-328.43	SLU 7	163.53	263.77	1008.26	2.5	34.7	3.66	-351.3	SLU 15	166.66	263.77	1011.51	2.5	72.1	Si
2	2X/2Y ø8/14.9	7.6	-326.64	SLU 7	163.28	263.77	1008.01	2.5	34.7	3.66	-348.96	SLU 15	166.34	263.77	1011.17	2.5	72.1	Si
2.29	2X/2Y ø8/14.9	7.6	-324.84	SLU 7	163.04	263.77	1007.75	2.5	34.7	3.66	-346.63	SLU 15	166.02	263.77	1010.84	2.5	72.1	Si
2.58	2X/2Y ø8/14.9	7.6	-323.04	SLU 7	162.79	263.77	1007.5	2.5	34.7	3.66	-344.29	SLU 15	165.7	263.77	1010.51	2.5	72.1	Si
2.86	2X/2Y ø8/14.9	7.6	-321.25	SLU 7	162.54	263.77	1007.24	2.5	34.7	3.66	-341.96	SLU 15	165.38	263.77	1010.18	2.5	72.1	Si
3.15	2X/2Y ø8/14.9	7.6	-319.48	SLU 7	162.3	263.77	1006.99	2.5	34.7	3.66	-339.66	SLU 15	165.07	263.77	1009.85	2.5	72.1	Si
3.75	2X/2Y ø8/14.9	-3.11	-179.71	SLU 7	143.14	263.77	987.17	2.5	84.79	-1.79	-143.94	SLU 14	138.24	263.77	982.1	2.5	147.04	Si
4.04	2X/2Y ø8/14.9	-3.11	-177.93	SLU 7	142.9	263.77	986.92	2.5	84.79	-1.79	-141.63	SLU 14	137.92	263.77	981.77	2.5	147.04	Si
4.32	2X/2Y ø8/14.9	-3.11	-176.15	SLU 7	142.65	263.77	986.66	2.5	84.79	-1.79	-139.31	SLU 14	137.6	263.77	981.44	2.5	147.04	Si
4.61	2X/2Y ø8/14.9	-3.11	-174.37	SLU 7	142.41	263.77	986.41	2.5	84.79	-1.79	-137	SLU 14	137.28	263.77	981.11	2.5	147.04	Si
4.89	2X/2Y ø8/14.9	-3.11	-172.59	SLU 7	142.16	263.77	986.16	2.5	84.79	-1.79	-134.68	SLU 14	136.97	263.77	980.78	2.5	147.04	Si
5.18	2X/2Y ø8/14.9	-3.11	-170.81	SLU 7	141.92	263.77	985.91	2.5	84.79	-1.79	-132.37	SLU 14	136.65	263.77	980.45	2.5	147.04	Si
5.46	2X/2Y ø8/14.9	-3.11	-169.03	SLU 7	141.67	263.77	985.65	2.5	84.79	-1.79	-130.05	SLU 14	136.33	263.77	980.13	2.5	147.04	Si
5.75	2X/2Y ø8/9.7	-3.11	-167.21	SLU 7	141.43	404.63	985.4	2.5	130.07	-1.79	-127.69	SLU 14	136.01	404.63	979.79	2.5	225.56	Si
6.03	2X/2Y ø8/9.7	-3.11	-165.46	SLU 7	141.19	404.63	985.15	2.5	130.07	-1.79	-125.42	SLU 14	135.7	404.63	979.47	2.5	225.56	Si
6.32	2X/2Y ø8/9.7	-3.11	-163.68	SLU 7	140.94	404.63	984.9	2.5	130.07	-1.79	-123.1	SLU 14	135.38	404.63	979.14	2.5	225.56	Si
6.6	2X/2Y ø8/9.7	-3.11	-161.93	SLU 7	140.7	404.63	984.65	2.5	130.07	-1.79	-120.83	SLU 14	135.07	404.63	978.82	2.5	225.56	Si

1.1.3.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	29.19	-282.41	SLV 4	157.22	391.99	1001.73	2.5	13.43	18.47	-282.4	SLV 10	157.22	391.99	1001.73	2.5	21.22	Si
-0.01	2X/2Y ø8/10	29.19	-280.64	SLV 4	156.98	391.99	1001.48	2.5	13.43	18.47	-280.63	SLV 10	156.98	391.99	1001.48	2.5	21.22	Si
0.28	2X/2Y ø8/10	29.19	-278.84	SLV 4	156.73	391.99	1001.23	2.5	13.43	18.47	-278.83	SLV 10	156.73	391.99	1001.23	2.5	21.22	Si
0.56	2X/2Y ø8/14.9	29.19	-277.05	SLV 4	156.48	263.77	1000.97	2.5	9.04	18.47	-277.04	SLV 10	156.48	263.77	1000.97	2.5	14.28	Si
0.85	2X/2Y ø8/14.9	29.19	-275.25	SLV 4	156.24	263.77	1000.72	2.5	9.04	18.47	-275.24	SLV 10	156.24	263.77	1000.72	2.5	14.28	Si
1.14	2X/2Y ø8/14.9	29.19	-273.45	SLV 4	155.99	263.77	1000.46	2.5	9.04	18.47	-273.44	SLV 10	155.99	263.77	1000.46	2.5	14.28	Si
1.43	2X/2Y ø8/14.9	29.19	-271.66	SLV 4	155.75	263.77	1000.21	2.5	9.04	18.47	-271.65	SLV 10	155.74	263.77	1000.21	2.5	14.28	Si
1.71	2X/2Y ø8/14.9	29.19	-269.86	SLV 4	155.5	263.77	999.95	2.5	9.04	18.47	-269.85	SLV 10	155.5	263.77	999.95	2.5	14.28	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
2	2X/2Y ø8/14.9	29.19	-268.06	SLV 4	155.25	263.77	999.7	2.5	9.04	18.47	-268.05	SLV 10	155.25	263.77	999.7	2.5	14.28	Si
2.29	2X/2Y ø8/14.9	29.19	-266.26	SLV 4	155.01	263.77	999.45	2.5	9.04	18.47	-266.26	SLV 10	155	263.77	999.44	2.5	14.28	Si
2.58	2X/2Y ø8/14.9	29.19	-264.47	SLV 4	154.76	263.77	999.19	2.5	9.04	18.47	-264.46	SLV 10	154.76	263.77	999.19	2.5	14.28	Si
2.86	2X/2Y ø8/14.9	29.19	-262.67	SLV 4	154.51	263.77	998.94	2.5	9.04	18.47	-262.66	SLV 10	154.51	263.77	998.93	2.5	14.28	Si
3.15	2X/2Y ø8/14.9	29.19	-260.91	SLV 4	154.27	263.77	998.69	2.5	9.04	18.47	-260.9	SLV 10	154.27	263.77	998.68	2.5	14.28	Si
3.75	2X/2Y ø8/14.9	-51.23	-130.02	SLV 4	136.33	263.77	980.12	2.5	5.15	-26.07	-130.01	SLV 10	136.33	263.77	980.12	2.5	10.12	Si
4.04	2X/2Y ø8/14.9	-51.23	-128.24	SLV 4	136.08	263.77	979.87	2.5	5.15	-26.07	-128.23	SLV 10	136.08	263.77	979.87	2.5	10.12	Si
4.32	2X/2Y ø8/14.9	-51.23	-126.46	SLV 4	135.84	263.77	979.62	2.5	5.15	-26.07	-126.45	SLV 10	135.84	263.77	979.62	2.5	10.12	Si
4.61	2X/2Y ø8/14.9	-51.23	-124.68	SLV 4	135.59	263.77	979.36	2.5	5.15	-26.07	-124.67	SLV 10	135.59	263.77	979.36	2.5	10.12	Si
4.89	2X/2Y ø8/14.9	-51.23	-122.9	SLV 4	135.35	263.77	979.11	2.5	5.15	-26.07	-122.89	SLV 10	135.35	263.77	979.11	2.5	10.12	Si
5.18	2X/2Y ø8/14.9	-51.23	-121.11	SLV 4	135.11	263.77	978.86	2.5	5.15	-26.07	-121.11	SLV 10	135.1	263.77	978.86	2.5	10.12	Si
5.46	2X/2Y ø8/14.9	-51.23	-119.33	SLV 4	134.86	263.77	978.61	2.5	5.15	-26.07	-119.32	SLV 10	134.86	263.77	978.61	2.5	10.12	Si
5.75	2X/2Y ø8/9.7	-51.23	-117.52	SLV 4	134.61	404.63	978.35	2.5	7.9	-26.07	-117.51	SLV 10	134.61	404.63	978.35	2.5	15.52	Si
6.03	2X/2Y ø8/9.7	-51.23	-115.77	SLV 4	134.37	404.63	978.1	2.5	7.9	-26.07	-115.76	SLV 10	134.37	404.63	978.1	2.5	15.52	Si
6.32	2X/2Y ø8/9.7	-51.23	-113.99	SLV 4	134.13	404.63	977.85	2.5	7.9	-26.07	-113.98	SLV 10	134.13	404.63	977.85	2.5	15.52	Si
6.6	2X/2Y ø8/9.7	-51.23	-112.24	SLV 4	133.89	404.63	977.6	2.5	7.9	-26.07	-112.23	SLV 10	133.89	404.63	977.6	2.5	15.52	Si

1.1.3.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	3.45	X	2.263	0.143	0.5	0.0236	0.000747	0.017902	0	157.219	1452.515	391.986	156.794	263.461	391.986	29.193	-282.405	SLV 4	Si
-0.3	-0.975	3.45	Y	2.263	0.143	0.5	0.0236	0.000318	0.017902	0	157.218	1452.513	391.986	156.794	263.46	391.986	18.472	-282.397	SLV 10	Si

1.1.3.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	15.02	-282.4	SLD 4	157.22	391.99	1001.73	2.5	26.11	9.02	-282.4	SLD 10	157.22	391.99	1001.73	2.5	43.44	Si
-0.01	2X/2Y ø8/10	15.02	-280.64	SLD 4	156.98	391.99	1001.48	2.5	26.11	9.02	-280.63	SLD 10	156.98	391.99	1001.48	2.5	43.44	Si
0.28	2X/2Y ø8/10	15.02	-278.84	SLD 4	156.73	391.99	1001.23	2.5	26.11	9.02	-278.84	SLD 10	156.73	391.99	1001.23	2.5	43.44	Si
0.56	2X/2Y ø8/14.9	15.02	-277.04	SLD 4	156.48	263.77	1000.97	2.5	17.57	9.02	-277.04	SLD 10	156.48	263.77	1000.97	2.5	29.23	Si
0.85	2X/2Y ø8/14.9	15.02	-275.25	SLD 4	156.24	263.77	1000.72	2.5	17.57	9.02	-275.24	SLD 10	156.24	263.77	1000.72	2.5	29.23	Si
1.14	2X/2Y ø8/14.9	15.02	-273.45	SLD 4	155.99	263.77	1000.46	2.5	17.57	9.02	-273.45	SLD 10	155.99	263.77	1000.46	2.5	29.23	Si
1.43	2X/2Y ø8/14.9	15.02	-271.65	SLD 4	155.74	263.77	1000.21	2.5	17.57	9.02	-271.65	SLD 10	155.74	263.77	1000.21	2.5	29.23	Si
1.71	2X/2Y ø8/14.9	15.02	-269.86	SLD 4	155.5	263.77	999.95	2.5	17.57	9.02	-269.85	SLD 10	155.5	263.77	999.95	2.5	29.23	Si
2	2X/2Y ø8/14.9	15.02	-268.06	SLD 4	155.25	263.77	999.7	2.5	17.57	9.02	-268.05	SLD 10	155.25	263.77	999.7	2.5	29.23	Si
2.29	2X/2Y ø8/14.9	15.02	-266.26	SLD 4	155.01	263.77	999.44	2.5	17.57	9.02	-266.26	SLD 10	155.01	263.77	999.44	2.5	29.23	Si
2.58	2X/2Y ø8/14.9	15.02	-264.46	SLD 4	154.76	263.77	999.19	2.5	17.57	9.02	-264.46	SLD 10	154.76	263.77	999.19	2.5	29.23	Si
2.86	2X/2Y ø8/14.9	15.02	-262.67	SLD 4	154.51	263.77	998.94	2.5	17.57	9.02	-262.66	SLD 10	154.51	263.77	998.93	2.5	29.23	Si
3.15	2X/2Y ø8/14.9	15.02	-260.9	SLD 4	154.27	263.77	998.68	2.5	17.57	9.02	-260.9	SLD 10	154.27	263.77	998.68	2.5	29.23	Si
3.75	2X/2Y ø8/14.9	-22.92	-130.02	SLD 4	136.33	263.77	980.12	2.5	11.51	-11.69	-130.01	SLD 10	136.33	263.77	980.12	2.5	22.57	Si
4.04	2X/2Y ø8/14.9	-22.92	-128.24	SLD 4	136.08	263.77	979.87	2.5	11.51	-11.69	-128.23	SLD 10	136.08	263.77	979.87	2.5	22.57	Si
4.32	2X/2Y ø8/14.9	-22.92	-126.46	SLD 4	135.84	263.77	979.62	2.5	11.51	-11.69	-126.45	SLD 10	135.84	263.77	979.62	2.5	22.57	Si
4.61	2X/2Y ø8/14.9	-22.92	-124.67	SLD 4	135.59	263.77	979.36	2.5	11.51	-11.69	-124.67	SLD 10	135.59	263.77	979.36	2.5	22.57	Si
4.89	2X/2Y ø8/14.9	-22.92	-122.89	SLD 4	135.35	263.77	979.11	2.5	11.51	-11.69	-122.89	SLD 10	135.35	263.77	979.11	2.5	22.57	Si
5.18	2X/2Y ø8/14.9	-22.92	-121.11	SLD 4	135.11	263.77	978.86	2.5	11.51	-11.69	-121.11	SLD 10	135.1	263.77	978.86	2.5	22.57	Si
5.46	2X/2Y ø8/14.9	-22.92	-119.33	SLD 4	134.86	263.77	978.61	2.5	11.51	-11.69	-119.33	SLD 10	134.86	263.77	978.61	2.5	22.57	Si
5.75	2X/2Y ø8/9.7	-22.92	-117.52	SLD 4	134.61	404.63	978.35	2.5	17.65	-11.69	-117.51	SLD 10	134.61	404.63	978.35	2.5	34.62	Si
6.03	2X/2Y ø8/9.7	-22.92	-115.77	SLD 4	134.37	404.63	978.1	2.5	17.65	-11.69	-115.76	SLD 10	134.37	404.63	978.1	2.5	34.62	Si
6.32	2X/2Y ø8/9.7	-22.92	-113.99	SLD 4	134.13	404.63	977.85	2.5	17.65	-11.69	-113.98	SLD 10	134.13	404.63	977.85	2.5	34.62	Si
6.6	2X/2Y ø8/9.7	-22.92	-112.24	SLD 4	133.89	404.63	977.6	2.5	17.65	-11.69	-112.23	SLD 10	133.89	404.63	977.6	2.5	34.62	Si

1.1.3.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.01	15.561	1961	1.347	0.368	1.298	SLV 4	Si
0.28	15.561	1961	1.347	0.368	1.298	SLV 4	Si
0.56	10.404	1961	1.347	0.368	1.298	SLV 4	Si
0.85	10.404	1961	1.347	0.368	1.298	SLV 4	Si
1.14	10.404	1961	1.347	0.368	1.298	SLV 4	Si
1.43	10.404	1961	1.347	0.368	1.298	SLV 4	Si
1.71	10.404	1961	1.347	0.368	1.298	SLV 4	Si
2	10.404	1961	1.347	0.368	1.298	SLV 4	Si
2.29	10.404	1961	1.347	0.368	1.298	SLV 4	Si
2.58	10.404	1961	1.347	0.368	1.298	SLV 4	Si
2.86	10.404	1961	1.347	0.368	1.298	SLV 4	Si
3.15	10.404	1961	1.347	0.368	1.298	SLV 4	Si
3.75	5.286	1961	1.347	0.368	1.298	SLV 4	Si
4.04	5.286	1961	1.347	0.368	1.298	SLV 4	Si
4.32	5.286	1961	1.347	0.368	1.298	SLV 4	Si
4.61	5.286	1961	1.347	0.368	1.298	SLV 4	Si
4.89	5.286	1961	1.347	0.368	1.298	SLV 4	Si
5.18	5.286	1961	1.347	0.368	1.298	SLV 4	Si
5.46	5.286	1961	1.347	0.368	1.298	SLV 4	Si
5.75	8.119	1961	1.347	0.368	1.298	SLV 4	Si
6.03	8.119	1961	1.347	0.368	1.298	SLV 4	Si
6.32	8.119	1961	1.347	0.368	1.298	SLV 4	Si
6.6	8.119	1961	1.347	0.368	1.298	SLV 4	Si

1.1.3.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	36.007	1961	3.374	0.368	3.05	SLD 4	Si
-0.01	36.007	1961	3.374	0.368	3.05	SLD 4	Si
0.28	36.007	1961	3.374	0.368	3.05	SLD 4	Si
0.56	24.129	1961	3.374	0.368	3.05	SLD 4	Si
0.85	24.129	1961	3.374	0.368	3.05	SLD 4	Si
1.14	24.129	1961	3.374	0.368	3.05	SLD 4	Si
1.43	24.129	1961	3.374	0.368	3.05	SLD 4	Si
1.71	24.129	1961	3.374	0.368	3.05	SLD 4	Si
2	24.129	1961	3.374	0.368	3.05	SLD 4	Si
2.29	24.129	1961	3.374	0.368	3.05	SLD 4	Si
2.58	24.129	1961	3.374	0.368	3.05	SLD 4	Si
2.86	24.129	1961	3.374	0.368	3.05	SLD 4	Si
3.15	24.129	1961	3.374	0.368	3.05	SLD 4	Si
3.75	12.309	1961	3.374	0.368	3.05	SLD 4	Si
4.04	12.309	1961	3.374	0.368	3.05	SLD 4	Si
4.32	12.309	1961	3.374	0.368	3.05	SLD 4	Si
4.61	12.309	1961	3.374	0.368	3.05	SLD 4	Si
4.89	12.309	1961	3.374	0.368	3.05	SLD 4	Si
5.18	12.309	1961	3.374	0.368	3.05	SLD 4	Si
5.46	12.309	1961	3.374	0.368	3.05	SLD 4	Si
5.75	18.922	1961	3.374	0.368	3.05	SLD 4	Si
6.03	18.922	1961	3.374	0.368	3.05	SLD 4	Si
6.32	18.922	1961	3.374	0.368	3.05	SLD 4	Si
6.6	18.922	1961	3.374	0.368	3.05	SLD 4	Si

1.1.3.4 Verifiche nodi trave colonna

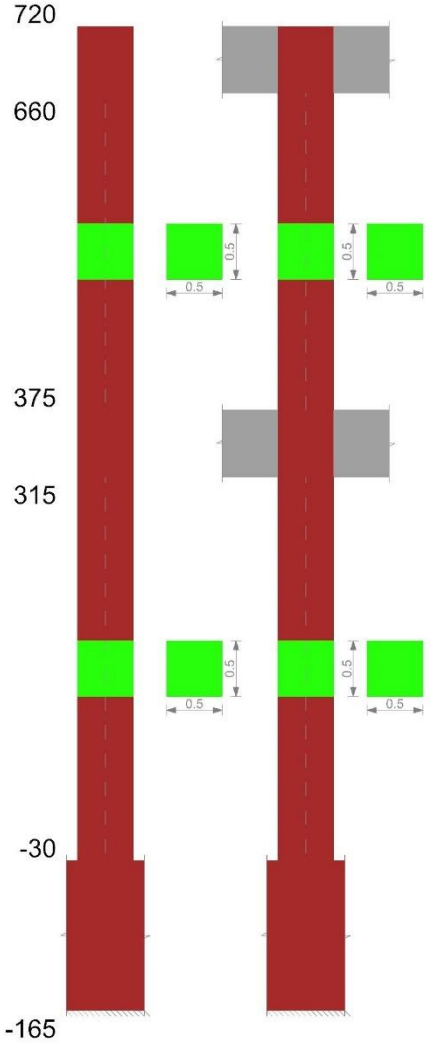
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.3.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.4 P7

Geometria



1.1.4.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.4.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	3.15	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2
3.75	6.6	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2

1.1.4.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2052	-0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2052	-0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	-0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	-0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2052	0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2052	0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.2052	-0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	-0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	-0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	-0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.3	-0.2052	-0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	-0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	-0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	-0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.4	-0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	-0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.5	-0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	-0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.6	-0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	-0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.1	0	-0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0	0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	0	-0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0	0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.7	0	-0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.7	0	0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.1	-0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.7	-0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.7	0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2

1.1.4.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.4.3 Verifiche delle sezioni

1.1.4.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.005894	4.7	0	1,2,4,5	-6.7892	-17.5858	-422.99	-116.3974	-301.501	SLU 18	17.145	Si
-0.01	0.005894	4.7	0	1,2,4,5	-5.999	-16.3207	-420.69	-105.0059	-285.6754	SLU 18	17.504	Si
0.28	0.005894	4.7	0	1,2,4,5	-5.1948	-15.0331	-418.36	-92.8755	-268.7687	SLU 18	17.878	Si
0.56	0.005894	3.2	0	2,4,5	-4.3907	-13.7456	-416.02	-80.1172	-250.8175	SLU 18	18.247	Si
0.85	0.005894	3.2	0	2,4,5	-3.5865	-12.458	-413.69	-66.4042	-230.6605	SLU 18	18.515	Si
1.14	0.005894	2.4	0	2,5	-2.7823	-11.1705	-411.35	-51.8077	-207.996	SLU 18	18.62	Si
1.43	0.005894	2.4	0	2,5	-1.9782	-9.8829	-409.01	-37.0444	-185.0726	SLU 18	18.726	Si
1.71	0.005894	2.4	0	2,5	-1.174	-8.5954	-406.68	-22.1115	-161.8859	SLU 18	18.834	Si
2	0.005894	2.4	0	2,5	-0.3699	-7.3078	-404.34	-7.0061	-138.4313	SLU 18	18.943	Si
2.29	0.005894	2.4	0	2,5	0.4343	-6.0203	-402.01	8.2749	-114.7041	SLU 18	19.053	Si
2.58	0.005894	2.4	0	2,5	1.2385	-4.7327	-399.67	23.7345	-90.6995	SLU 18	19.164	Si
2.86	0.005894	2.4	0	2,5	2.0426	-3.4452	-397.33	39.3759	-66.4127	SLU 18	19.277	Si
3.15	0.005894	2.4	0	2,5	2.8328	-2.18	-395.04	54.9254	-42.2685	SLU 18	19.389	Si
3.75	0.005894	4.7	0	2,3,5,6,7	3.7098	-0.3791	-204.79	138.7482	-14.1771	SLU 18	37.401	Si
4.04	0.005894	4.7	0	2,3,5,6,7	3.3452	-0.3317	-202.48	126.5435	-12.5492	SLU 18	37.828	Si
4.32	0.005894	4.7	0	2,3,5,6,7	2.9806	-0.2844	-200.16	114.0563	-10.8835	SLU 18	38.266	Si
4.61	0.005894	3.2	0	3,5,6,7	2.616	-0.2371	-197.85	101.2769	-9.1789	SLU 18	38.714	Si
4.89	0.005894	3.2	0	3,5,6,7	2.2515	-0.1898	-195.53	88.1947	-7.434	SLU 18	39.172	Si
5.18	0.005894	2.4	0	3,6,7	1.8869	-0.1425	-193.22	74.799	-5.6471	SLU 18	39.642	Si
5.46	0.005894	2.4	0	3,6,7	1.5223	-0.0951	-190.9	61.0783	-3.817	SLU 18	40.123	Si
5.75	0.005894	2.4	0	3,6,7	1.1513	-0.047	-188.54	46.771	-1.9086	SLU 18	40.624	Si
6.03	0.005894	2.4	0	3,6,7	0.7931	-0.0005	-186.27	32.6135	-0.0202	SLU 18	41.12	Si
6.32	0.005744	2.4	0	3,6,7	0.4285	0.0468	-183.95	17.7116	1.9355	SLU 18	41.33	Si
6.6	0.004982	2.4	0	3,6,7	0.0704	0.0933	-181.68	2.8324	3.7569	SLU 18	40.257	Si

1.1.4.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.005894	4.7	0	1,2,4,5	-43.4914	-90.3418	-279.34	-359.4286	-746.6168	SLV 16	8.264				Si
-0.01	0.005894	4.7	0	1,2,4,5	-40.5019	-104.3081	-277.58	-297.6815	-766.6461	SLV 16	7.35				Si
0.28	0.005894	4.7	0	1,2,4,5	-37.6087	-125.832	-275.78	-227.864	-762.3925	SLV 16	6.059				Si
0.56	0.005894	3.2	0	2,4,5	-34.887	-151.3677	-273.98	-169.522	-735.5219	SLV 16	4.859				Si
0.85	0.005894	3.2	0	2,4,5	-32.3716	-179.0685	-272.19	-128.5375	-711.025	SLV 16	3.971				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
1.14	0.005894	2.4	0	2,5	-30.1232	-208.0055	-270.39	-99.1005	-684.3059	SLV 16	3.29				Si
1.43	0.005894	2.4	0	2,5	-28.2458	-237.6966	-268.59	-78.8058	-663.1744	SLV 16	2.79				Si
1.71	0.005894	2.4	0	2,5	-26.9028	-267.8757	-266.8	-64.829	-645.5142	SLV 16	2.41				Si
2	0.005894	2.4	0	2,5	-15.9132	-296.4973	-265	-34.0259	-633.9778	SLV 16	2.138				Si
2.29	0.005894	2.4	0	2,5	27.9852	-329.1324	-263.2	52.7168	-619.9988	SLV 14	1.884				Si
2.58	0.005894	2.4	0	2,5	30.3708	-360.0505	-261.4	51.5103	-610.6629	SLV 14	1.696				Si
2.86	0.005894	2.4	0	2,5	33.3814	-391.0982	-259.61	51.4604	-602.9128	SLV 14	1.542				Si
3.15	0.005894	2.4	0	2,5	36.749	-421.7033	-257.84	51.9823	-596.5085	SLV 14	1.415				Si
3.75	0.005894	4.7	0	2,3,5,6,7	37.5716	-436.8537	-130.02	48.2526	-561.043	SLV 13	1.284				Si
4.04	0.005894	4.7	0	2,3,5,6,7	33.8793	-393.6257	-128.24	48.5554	-564.1401	SLV 13	1.433				Si
4.32	0.005894	4.7	0	2,3,5,6,7	30.1869	-350.3978	-126.46	48.9294	-567.9542	SLV 13	1.621				Si
4.61	0.005894	3.2	0	3,5,6,7	26.4945	-307.17	-124.67	49.4133	-572.8843	SLV 13	1.865				Si
4.89	0.005894	3.2	0	3,5,6,7	22.8021	-263.9423	-122.89	50.0687	-579.5628	SLV 13	2.196				Si
5.18	0.005894	2.4	0	3,6,7	19.1097	-220.7147	-121.11	51.0065	-589.1189	SLV 13	2.669				Si
5.46	0.005894	2.4	0	3,6,7	15.4173	-177.4874	-119.33	52.4572	-603.898	SLV 13	3.402				Si
5.75	0.005894	2.4	0	3,6,7	11.6602	-133.5023	-117.52	55.0648	-630.4604	SLV 13	4.722				Si
6.03	0.005894	2.4	0	3,6,7	8.0326	-91.0351	-115.77	60.5674	-686.4262	SLV 13	7.54				Si
6.32	0.005744	2.4	0	3,6,7	4.5402	-47.7957	-113.99	79.7173	-839.2018	SLV 14	17.558				Si
6.6	0.004982	2.4	0	3,6,7	-0.6184	5.5051	-112.24	-53.296	474.4667	SLV 4	86.186				Si

1.1.4.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.005894	4.7	0	1,2,4,5	-21.0893	-44.6901	-279.34	-379.4037	-803.9897	SLD 16	17.99	Si
-0.01	0.005894	4.7	0	1,2,4,5	-19.5097	-50.2319	-277.58	-329.9072	-849.4165	SLD 16	16.91	Si
0.28	0.005894	4.7	0	1,2,4,5	-17.9678	-59.0033	-275.78	-272.4062	-894.5372	SLD 16	15.161	Si
0.56	0.005894	3.2	0	2,4,5	-16.5015	-69.4949	-273.98	-217.6897	-916.7862	SLD 16	13.192	Si
0.85	0.005894	3.2	0	2,4,5	-15.1262	-80.9154	-272.19	-171.8935	-919.5217	SLD 16	11.364	Si
1.14	0.005894	2.4	0	2,5	-13.8687	-92.8664	-270.39	-134.3068	-899.3348	SLD 16	9.684	Si
1.43	0.005894	2.4	0	2,5	-12.7748	-105.1408	-268.59	-105.3222	-866.8393	SLD 16	8.245	Si
1.71	0.005894	2.4	0	2,5	-11.9155	-117.6245	-266.8	-84.5744	-834.88	SLD 16	7.098	Si
2	0.005894	2.4	0	2,5	-6.888	-129.4401	-265	-43.2383	-812.5402	SLD 16	6.277	Si
2.29	0.005894	2.4	0	2,5	12.2498	-142.9774	-263.2	66.4357	-775.4265	SLD 14	5.423	Si
2.58	0.005894	2.4	0	2,5	13.5861	-155.778	-261.4	65.292	-748.6343	SLD 14	4.806	Si
2.86	0.005894	2.4	0	2,5	15.1871	-168.6343	-259.61	65.4314	-726.5352	SLD 14	4.308	Si
3.15	0.005894	2.4	0	2,5	16.9334	-181.3086	-257.84	66.1834	-708.6346	SLD 14	3.908	Si
3.75	0.005894	4.7	0	2,3,5,6,7	17.6176	-187.1828	-130.02	57.0687	-606.341	SLD 13	3.239	Si
4.04	0.005894	4.7	0	2,3,5,6,7	15.8862	-168.6573	-128.24	57.8866	-614.5577	SLD 13	3.644	Si
4.32	0.005894	4.7	0	2,3,5,6,7	14.1548	-150.1318	-126.46	58.9364	-625.1023	SLD 13	4.164	Si
4.61	0.005894	3.2	0	3,5,6,7	12.4235	-131.6063	-124.67	60.3344	-639.1448	SLD 13	4.856	Si
4.89	0.005894	3.2	0	3,5,6,7	11.1404	-113.0484	-122.89	64.8972	-658.5485	SLD 14	5.825	Si
5.18	0.005894	2.4	0	3,6,7	8.9607	-94.5555	-121.11	65.1435	-687.4118	SLD 13	7.27	Si
5.46	0.005894	2.4	0	3,6,7	7.5325	-76.0075	-119.33	72.3534	-730.0944	SLD 14	9.606	Si
5.75	0.005894	2.4	0	3,6,7	5.6968	-57.1624	-117.52	80.1631	-804.3646	SLD 14	14.072	Si
6.03	0.005894	2.4	0	3,6,7	3.9245	-38.9677	-115.77	92.9858	-923.2942	SLD 14	23.694	Si
6.32	0.005744	2.4	0	3,6,7	2.1205	-20.4503	-113.99	99.0681	-955.4294	SLD 14	46.72	Si
6.6	0.004982	2.4	0	3,6,7	0.0816	2.1603	-112.24	7.4082	196.1216	SLD 1	90.785	Si

1.1.4.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	6.674	1961	1.347	0.368	1.298	SLV 16	Si
-0.01	5.792	1961	1.347	0.368	1.298	SLV 16	Si
0.28	4.78	1961	1.347	0.368	1.298	SLV 16	Si
0.56	3.947	1961	1.347	0.368	1.298	SLV 16	Si
0.85	3.314	1961	1.347	0.368	1.298	SLV 16	Si
1.14	2.84	1961	1.347	0.368	1.298	SLV 16	Si
1.43	2.471	1961	1.347	0.368	1.298	SLV 16	Si
1.71	2.184	1961	1.347	0.368	1.298	SLV 16	Si
2	1.969	1961	1.347	0.368	1.298	SLV 16	Si
2.29	1.766	1961	1.347	0.368	1.298	SLV 14	Si
2.58	1.609	1961	1.347	0.368	1.298	SLV 14	Si
2.86	1.48	1961	1.347	0.368	1.298	SLV 13	Si
3.15	1.371	1961	1.347	0.368	1.298	SLV 13	Si
3.75	1.27	1961	1.347	0.368	1.298	SLV 13	Si
4.04	1.406	1961	1.347	0.368	1.298	SLV 13	Si
4.32	1.58	1961	1.347	0.368	1.298	SLV 13	Si
4.61	1.801	1961	1.347	0.368	1.298	SLV 13	Si
4.89	2.096	1961	1.347	0.368	1.298	SLV 4	Si
5.18	2.506	1961	1.347	0.368	1.298	SLV 3	Si
5.46	3.115	1961	1.347	0.368	1.298	SLV 3	Si
5.75	4.138	1961	1.347	0.368	1.298	SLV 3	Si
6.03	6.059	1961	1.347	0.368	1.298	SLV 3	Si
6.32	11.283	1961	1.347	0.368	1.298	SLV 3	Si
6.6	87.444	1961	1.347	0.368	1.298	SLV 4	Si

1.1.4.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	15.561	1961	3.374	0.368	3.05	SLD 16	Si
-0.01	13.539	1961	3.374	0.368	3.05	SLD 16	Si
0.28	11.166	1961	3.374	0.368	3.05	SLD 16	Si
0.56	9.232	1961	3.374	0.368	3.05	SLD 16	Si
0.85	7.74	1961	3.374	0.368	3.05	SLD 16	Si
1.14	6.633	1961	3.374	0.368	3.05	SLD 16	Si
1.43	5.771	1961	3.374	0.368	3.05	SLD 16	Si
1.71	5.102	1961	3.374	0.368	3.05	SLD 16	Si
2	4.603	1961	3.374	0.368	3.05	SLD 16	Si
2.29	4.124	1961	3.374	0.368	3.05	SLD 14	Si
2.58	3.766	1961	3.374	0.368	3.05	SLD 14	Si
2.86	3.455	1961	3.374	0.368	3.05	SLD 14	Si
3.15	3.203	1961	3.374	0.368	3.05	SLD 13	Si
3.75	2.963	1961	3.374	0.368	3.05	SLD 13	Si
4.04	3.285	1961	3.374	0.368	3.05	SLD 13	Si
4.32	3.695	1961	3.374	0.368	3.05	SLD 3	Si
4.61	4.213	1961	3.374	0.368	3.05	SLD 3	Si
4.89	4.896	1961	3.374	0.368	3.05	SLD 3	Si
5.18	5.854	1961	3.374	0.368	3.05	SLD 3	Si
5.46	7.275	1961	3.374	0.368	3.05	SLD 3	Si
5.75	9.657	1961	3.374	0.368	3.05	SLD 13	Si
6.03	14.154	1961	3.374	0.368	3.05	SLD 3	Si
6.32	26.369	1961	3.374	0.368	3.05	SLD 3	Si
6.6	204.203	1961	3.374	0.368	3.05	SLD 3	Si

1.1.4.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	4.71	-338.94	SLU 7	164.97	391.99	1009.75	2.5	83.14	3.64	-363.4	SLU 15	168.32	391.99	1013.22	2.5	107.55	Si
-0.01	2X/2Y ø8/10	4.71	-337.17	SLU 7	164.73	391.99	1009.5	2.5	83.14	3.64	-361.11	SLU 15	168.01	391.99	1012.9	2.5	107.55	Si
0.28	2X/2Y ø8/10	4.71	-335.38	SLU 7	164.48	391.99	1009.25	2.5	83.14	3.64	-358.77	SLU 15	167.69	391.99	1012.57	2.5	107.55	Si
0.56	2X/2Y ø8/14.9	4.71	-333.58	SLU 7	164.23	263.77	1008.99	2.5	55.94	3.64	-356.44	SLU 15	167.37	263.77	1012.23	2.5	72.37	Si
0.85	2X/2Y ø8/14.9	4.71	-331.78	SLU 7	163.99	263.77	1008.74	2.5	55.94	3.64	-354.1	SLU 15	167.05	263.77	1011.9	2.5	72.37	Si
1.14	2X/2Y ø8/14.9	4.71	-329.99	SLU 7	163.74	263.77	1008.48	2.5	55.94	3.64	-351.76	SLU 15	166.73	263.77	1011.57	2.5	72.37	Si
1.43	2X/2Y ø8/14.9	4.71	-328.19	SLU 7	163.5	263.77	1008.23	2.5	55.94	3.64	-349.43	SLU 15	166.41	263.77	1011.24	2.5	72.37	Si
1.71	2X/2Y ø8/14.9	4.71	-326.39	SLU 7	163.25	263.77	1007.97	2.5	55.94	3.64	-347.09	SLU 15	166.09	263.77	1010.91	2.5	72.37	Si
2	2X/2Y ø8/14.9	4.71	-324.6	SLU 7	163	263.77	1007.72	2.5	55.94	3.64	-344.76	SLU 15	165.77	263.77	1010.58	2.5	72.37	Si
2.29	2X/2Y ø8/14.9	4.71	-322.8	SLU 7	162.76	263.77	1007.46	2.5	55.94	3.64	-342.42	SLU 15	165.45	263.77	1010.25	2.5	72.37	Si
2.58	2X/2Y ø8/14.9	4.71	-321	SLU 7	162.51	263.77	1007.21	2.5	55.94	3.64	-340.08	SLU 15	165.13	263.77	1009.91	2.5	72.37	Si
2.86	2X/2Y ø8/14.9	4.71	-319.2	SLU 7	162.26	263.77	1006.95	2.5	55.94	3.64	-337.75	SLU 15	164.81	263.77	1009.58	2.5	72.37	Si
3.15	2X/2Y ø8/14.9	4.71	-317.44	SLU 7	162.02	263.77	1006.7	2.5	55.94	3.64	-335.45	SLU 15	164.49	263.77	1009.26	2.5	72.37	Si
3.75	2X/2Y ø8/14.9	0.24	-143.64	SLU 14	138.19	263.77	982.05	2.5	1078.01	-1.78	-143.64	SLU 14	138.19	263.77	982.05	2.5	148.26	Si
4.04	2X/2Y ø8/14.9	0.24	-141.33	SLU 14	137.88	263.77	981.73	2.5	1078.01	-1.78	-141.33	SLU 14	137.88	263.77	981.73	2.5	148.26	Si
4.32	2X/2Y ø8/14.9	0.24	-139.01	SLU 14	137.56	263.77	981.4	2.5	1078.01	-1.78	-139.01	SLU 14	137.56	263.77	981.4	2.5	148.26	Si
4.61	2X/2Y ø8/14.9	0.24	-136.7	SLU 14	137.24	263.77	981.07	2.5	1078.01	-1.78	-136.7	SLU 14	137.24	263.77	981.07	2.5	148.26	Si
4.89	2X/2Y ø8/14.9	0.24	-134.38	SLU 14	136.92	263.77	980.74	2.5	1078.01	-1.78	-134.38	SLU 14	136.92	263.77	980.74	2.5	148.26	Si
5.18	2X/2Y ø8/14.9	0.24	-132.06	SLU 14	136.61	263.77	980.41	2.5	1078.01	-1.78	-132.06	SLU 14	136.61	263.77	980.41	2.5	148.26	Si
5.46	2X/2Y ø8/14.9	0.24	-129.75	SLU 14	136.29	263.77	980.08	2.5	1078.01	-1.78	-129.75	SLU 14	136.29	263.77	980.08	2.5	148.26	Si
5.75	2X/2Y ø8/9.7	0.24	-127.39	SLU 14	135.97	404.63	979.75	2.5	1653.73	-1.78	-127.39	SLU 14	135.97	404.63	979.75	2.5	227.44	Si
6.03	2X/2Y ø8/9.7	0.24	-125.12	SLU 14	135.65	404.63	979.43	2.5	1653.73	-1.78	-125.12	SLU 14	135.65	404.63	979.43	2.5	227.44	Si
6.32	2X/2Y ø8/9.7	0.24	-122.8	SLU 14	135.34	404.63	979.1	2.5	1653.73	-1.78	-122.8	SLU 14	135.34	404.63	979.1	2.5	227.44	Si
6.6	2X/2Y ø8/9.7	0.24	-120.53	SLU 14	135.03	404.63	978.78	2.5	1653.73	-1.78	-120.53	SLU 14	135.03	404.63	978.78	2.5	227.44	Si

1.1.4.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	116.31	-279.34	SLV 4	156.8	391.99	1001.3	2.5	3.37	18.56	-279.34	SLV 10	156.8	391.99	1001.3	2.5	21.12	Si
-0.01	2X/2Y ø8/10	116.31	-277.58	SLV 4	156.56	391.99	1001.05	2.5	3.37	18.56	-277.58	SLV 10	156.56	391.99	1001.05	2.5	21.12	Si
0.28	2X/2Y ø8/10	116.31	-275.78	SLV 4	156.31	391.99	1000.79	2.5	3.37	18.56	-275.78	SLV 10	156.31	391.99	1000.79	2.5	21.12	Si
0.56	2X/2Y ø8/14.9	116.31	-273.98	SLV 4	156.06	263.77	1000.54	2.5	2.27	18.56	-273.98	SLV 10	156.06	263.77	1000.54	2.5	14.21	Si
0.85	2X/2Y ø8/14.9	116.31	-272.19	SLV 4	155.82	263.77	1000.29	2.5	2.27	18.56	-272.19	SLV 10	155.82	263.77	1000.29	2.5	14.21	Si
1.14	2X/2Y ø8/14.9	116.31	-270.39	SLV 4	155.57	263.77	1000.03	2.5	2.27	18.56	-270.39	SLV 10	155.57	263.77	1000.03	2.5	14.21	Si
1.43	2X/2Y ø8/14.9	116.31	-268.59	SLV 4	155.33	263.77	999.78	2.5	2.27	18.56	-268.59	SLV 10	155.33	263.77	999.78	2.5	14.21	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
1.71	2X/2Y ø8/14.9	116.31	-266.8	SLV 4	155.08	263.77	999.52	2.5	2.27	18.56	-266.8	SLV 10	155.08	263.77	999.52	2.5	14.21	Si
2	2X/2Y ø8/14.9	116.31	-265	SLV 4	154.83	263.77	999.27	2.5	2.27	18.56	-265	SLV 10	154.83	263.77	999.27	2.5	14.21	Si
2.29	2X/2Y ø8/14.9	116.31	-263.2	SLV 4	154.59	263.77	999.01	2.5	2.27	18.56	-263.2	SLV 10	154.59	263.77	999.01	2.5	14.21	Si
2.58	2X/2Y ø8/14.9	116.31	-261.41	SLV 4	154.34	263.77	998.76	2.5	2.27	18.56	-261.41	SLV 10	154.34	263.77	998.76	2.5	14.21	Si
2.86	2X/2Y ø8/14.9	116.31	-259.61	SLV 4	154.09	263.77	998.5	2.5	2.27	18.56	-259.61	SLV 10	154.09	263.77	998.5	2.5	14.21	Si
3.15	2X/2Y ø8/14.9	116.31	-257.84	SLV 4	153.85	263.77	998.25	2.5	2.27	18.56	-257.84	SLV 10	153.85	263.77	998.25	2.5	14.21	Si
3.75	2X/2Y ø8/14.9	151.68	-130.02	SLV 13	136.33	263.77	980.12	2.5	1.74	-26.26	-130.02	SLV 10	136.33	263.77	980.12	2.5	10.04	Si
4.04	2X/2Y ø8/14.9	151.68	-128.24	SLV 13	136.08	263.77	979.87	2.5	1.74	-26.26	-128.24	SLV 10	136.08	263.77	979.87	2.5	10.04	Si
4.32	2X/2Y ø8/14.9	151.68	-126.46	SLV 13	135.84	263.77	979.62	2.5	1.74	-26.26	-126.46	SLV 10	135.84	263.77	979.62	2.5	10.04	Si
4.61	2X/2Y ø8/14.9	151.68	-124.67	SLV 13	135.59	263.77	979.36	2.5	1.74	-26.26	-124.68	SLV 10	135.59	263.77	979.36	2.5	10.04	Si
4.89	2X/2Y ø8/14.9	151.68	-122.89	SLV 13	135.35	263.77	979.11	2.5	1.74	-26.26	-122.89	SLV 10	135.35	263.77	979.11	2.5	10.04	Si
5.18	2X/2Y ø8/14.9	151.68	-121.11	SLV 13	135.11	263.77	978.86	2.5	1.74	-26.26	-121.11	SLV 10	135.11	263.77	978.86	2.5	10.04	Si
5.46	2X/2Y ø8/14.9	151.68	-119.33	SLV 13	134.86	263.77	978.61	2.5	1.74	-26.26	-119.33	SLV 10	134.86	263.77	978.61	2.5	10.04	Si
5.75	2X/2Y ø8/9.7	151.68	-117.52	SLV 13	134.61	404.63	978.35	2.5	2.67	-26.26	-117.52	SLV 10	134.61	404.63	978.35	2.5	15.41	Si
6.03	2X/2Y ø8/9.7	151.68	-115.77	SLV 13	134.37	404.63	978.1	2.5	2.67	-26.26	-115.77	SLV 10	134.37	404.63	978.1	2.5	15.41	Si
6.32	2X/2Y ø8/9.7	151.68	-113.99	SLV 13	134.13	404.63	977.85	2.5	2.67	-26.26	-113.99	SLV 10	134.13	404.63	977.85	2.5	15.41	Si
6.6	2X/2Y ø8/9.7	151.68	-112.24	SLV 13	133.89	404.63	977.6	2.5	2.67	-26.26	-112.24	SLV 10	133.89	404.63	977.6	2.5	15.41	Si

1.1.4.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	3.45	X	2.263	0.143	0.5	0.0236	0.000501	0.017902	0	156.799	1451.885	391.986	156.794	263.261	391.986	116.307	-279.343	SLV 4	Si
-0.3	-0.975	3.45	Y	2.263	0.143	0.5	0.0236	0.000317	0.017902	0	156.799	1451.885	391.986	156.794	263.261	391.986	18.564	-279.343	SLV 10	Si

1.1.4.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	51.31	-279.34	SLD 4	156.8	391.99	1001.3	2.5	7.64	9.06	-279.34	SLD 10	156.8	391.99	1001.3	2.5	43.27	Si
-0.01	2X/2Y ø8/10	51.31	-277.58	SLD 4	156.56	391.99	1001.05	2.5	7.64	9.06	-277.58	SLD 10	156.56	391.99	1001.05	2.5	43.27	Si
0.28	2X/2Y ø8/10	51.31	-275.78	SLD 4	156.31	391.99	1000.79	2.5	7.64	9.06	-275.78	SLD 10	156.31	391.99	1000.79	2.5	43.27	Si
0.56	2X/2Y ø8/14.9	51.31	-273.98	SLD 4	156.06	263.77	1000.54	2.5	5.14	9.06	-273.98	SLD 10	156.06	263.77	1000.54	2.5	29.12	Si
0.85	2X/2Y ø8/14.9	51.31	-272.19	SLD 4	155.82	263.77	1000.29	2.5	5.14	9.06	-272.19	SLD 10	155.82	263.77	1000.29	2.5	29.12	Si
1.14	2X/2Y ø8/14.9	51.31	-270.39	SLD 4	155.57	263.77	1000.03	2.5	5.14	9.06	-270.39	SLD 10	155.57	263.77	1000.03	2.5	29.12	Si
1.43	2X/2Y ø8/14.9	51.31	-268.59	SLD 4	155.33	263.77	999.78	2.5	5.14	9.06	-268.59	SLD 10	155.33	263.77	999.78	2.5	29.12	Si
1.71	2X/2Y ø8/14.9	51.31	-266.8	SLD 4	155.08	263.77	999.52	2.5	5.14	9.06	-266.8	SLD 10	155.08	263.77	999.52	2.5	29.12	Si
2	2X/2Y ø8/14.9	51.31	-265	SLD 4	154.83	263.77	999.27	2.5	5.14	9.06	-265	SLD 10	154.83	263.77	999.27	2.5	29.12	Si
2.29	2X/2Y ø8/14.9	51.31	-263.2	SLD 4	154.59	263.77	999.01	2.5	5.14	9.06	-263.2	SLD 10	154.59	263.77	999.01	2.5	29.12	Si
2.58	2X/2Y ø8/14.9	51.31	-261.41	SLD 4	154.34	263.77	998.76	2.5	5.14	9.06	-261.41	SLD 10	154.34	263.77	998.76	2.5	29.12	Si
2.86	2X/2Y ø8/14.9	51.31	-259.61	SLD 4	154.09	263.77	998.5	2.5	5.14	9.06	-259.61	SLD 10	154.09	263.77	998.5	2.5	29.12	Si
3.15	2X/2Y ø8/14.9	51.31	-257.84	SLD 4	153.85	263.77	998.25	2.5	5.14	9.06	-257.84	SLD 10	153.85	263.77	998.25	2.5	29.12	Si
3.75	2X/2Y ø8/14.9	65	-130.02	SLD 13	136.33	263.77	980.12	2.5	4.06	-11.77	-130.02	SLD 10	136.33	263.77	980.12	2.5	22.42	Si
4.04	2X/2Y ø8/14.9	65	-128.24	SLD 13	136.08	263.77	979.87	2.5	4.06	-11.77	-128.24	SLD 10	136.08	263.77	979.87	2.5	22.42	Si
4.32	2X/2Y ø8/14.9	65	-126.46	SLD 13	135.84	263.77	979.62	2.5	4.06	-11.77	-126.46	SLD 10	135.84	263.77	979.62	2.5	22.42	Si
4.61	2X/2Y ø8/14.9	65	-124.67	SLD 13	135.59	263.77	979.36	2.5	4.06	-11.77	-124.68	SLD 10	135.59	263.77	979.36	2.5	22.42	Si
4.89	2X/2Y ø8/14.9	65	-122.89	SLD 13	135.35	263.77	979.11	2.5	4.06	-11.77	-122.89	SLD 10	135.35	263.77	979.11	2.5	22.42	Si
5.18	2X/2Y ø8/14.9	65	-121.11	SLD 13	135.11	263.77	978.86	2.5	4.06	-11.77	-121.11	SLD 10	135.11	263.77	978.86	2.5	22.42	Si
5.46	2X/2Y ø8/14.9	65	-119.33	SLD 13	134.86	263.77	978.61	2.5	4.06	-11.77	-119.33	SLD 10	134.86	263.77	978.61	2.5	22.42	Si
5.75	2X/2Y ø8/9.7	65	-117.52	SLD 13	134.61	404.63	978.35	2.5	6.22	-11.77	-117.52	SLD 10	134.61	404.63	978.35	2.5	34.39	Si
6.03	2X/2Y ø8/9.7	65	-115.77	SLD 13	134.37	404.63	978.1	2.5	6.22	-11.77	-115.77	SLD 10	134.37	404.63	978.1	2.5	34.39	Si
6.32	2X/2Y ø8/9.7	65	-113.99	SLD 13	134.13	404.63	977.85	2.5	6.22	-11.77	-113.99	SLD 10	134.13	404.63	977.85	2.5	34.39	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
6.6	2X/2Y ø8/9.7	65	-112.24	SLD 13	133.89	404.63	977.6	2.5	6.22	-11.77	-112.24	SLD 10	133.89	404.63	977.6	2.5	34.39	Si

1.1.4.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.01	3.426	1961	1.347	0.368	1.298	SLV 4	Si
0.28	3.426	1961	1.347	0.368	1.298	SLV 4	Si
0.56	2.298	1961	1.347	0.368	1.298	SLV 4	Si
0.85	2.298	1961	1.347	0.368	1.298	SLV 4	Si
1.14	2.298	1961	1.347	0.368	1.298	SLV 4	Si
1.43	2.298	1961	1.347	0.368	1.298	SLV 4	Si
1.71	2.298	1961	1.347	0.368	1.298	SLV 4	Si
2	2.298	1961	1.347	0.368	1.298	SLV 4	Si
2.29	2.298	1961	1.347	0.368	1.298	SLV 4	Si
2.58	2.298	1961	1.347	0.368	1.298	SLV 4	Si
2.86	2.298	1961	1.347	0.368	1.298	SLV 4	Si
3.15	2.298	1961	1.347	0.368	1.298	SLV 4	Si
3.75	1.738	1961	1.347	0.368	1.298	SLV 13	Si
4.04	1.738	1961	1.347	0.368	1.298	SLV 13	Si
4.32	1.738	1961	1.347	0.368	1.298	SLV 13	Si
4.61	1.738	1961	1.347	0.368	1.298	SLV 13	Si
4.89	1.738	1961	1.347	0.368	1.298	SLV 13	Si
5.18	1.738	1961	1.347	0.368	1.298	SLV 13	Si
5.46	1.738	1961	1.347	0.368	1.298	SLV 13	Si
5.75	2.67	1961	1.347	0.368	1.298	SLV 3	Si
6.03	2.67	1961	1.347	0.368	1.298	SLV 3	Si
6.32	2.67	1961	1.347	0.368	1.298	SLV 3	Si
6.6	2.67	1961	1.347	0.368	1.298	SLV 3	Si

1.1.4.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	8.002	1961	3.374	0.368	3.05	SLD 4	Si
-0.01	8.002	1961	3.374	0.368	3.05	SLD 4	Si
0.28	8.002	1961	3.374	0.368	3.05	SLD 4	Si
0.56	5.361	1961	3.374	0.368	3.05	SLD 4	Si
0.85	5.361	1961	3.374	0.368	3.05	SLD 4	Si
1.14	5.361	1961	3.374	0.368	3.05	SLD 4	Si
1.43	5.361	1961	3.374	0.368	3.05	SLD 4	Si
1.71	5.361	1961	3.374	0.368	3.05	SLD 4	Si
2	5.361	1961	3.374	0.368	3.05	SLD 4	Si
2.29	5.361	1961	3.374	0.368	3.05	SLD 4	Si
2.58	5.361	1961	3.374	0.368	3.05	SLD 4	Si
2.86	5.361	1961	3.374	0.368	3.05	SLD 4	Si
3.15	5.361	1961	3.374	0.368	3.05	SLD 4	Si
3.75	4.063	1961	3.374	0.368	3.05	SLD 13	Si
4.04	4.063	1961	3.374	0.368	3.05	SLD 13	Si
4.32	4.063	1961	3.374	0.368	3.05	SLD 13	Si
4.61	4.063	1961	3.374	0.368	3.05	SLD 13	Si
4.89	4.063	1961	3.374	0.368	3.05	SLD 13	Si
5.18	4.063	1961	3.374	0.368	3.05	SLD 13	Si
5.46	4.063	1961	3.374	0.368	3.05	SLD 13	Si
5.75	6.236	1961	3.374	0.368	3.05	SLD 3	Si
6.03	6.236	1961	3.374	0.368	3.05	SLD 3	Si
6.32	6.236	1961	3.374	0.368	3.05	SLD 3	Si
6.6	6.236	1961	3.374	0.368	3.05	SLD 3	Si

1.1.4.4 Verifiche nodi trave colonna

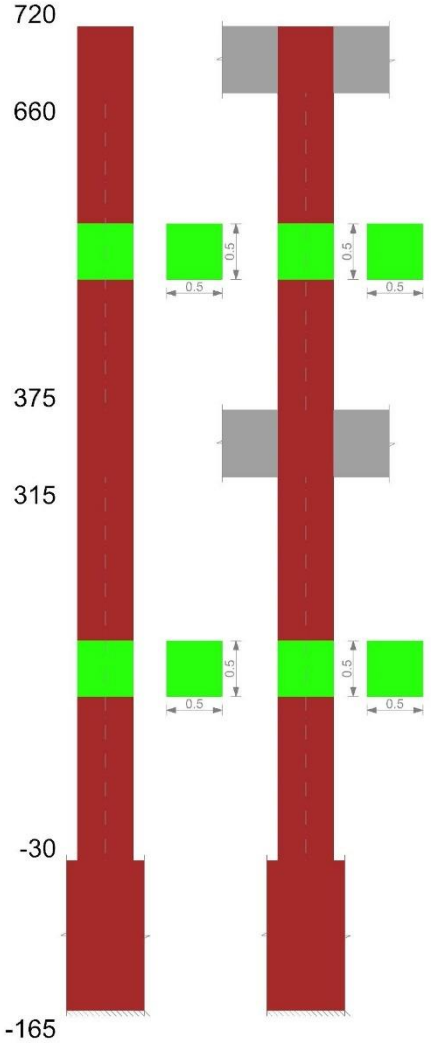
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.4.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.5 P8

Geometria



1.1.5.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.5.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	3.15	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2
3.75	6.6	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2

1.1.5.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2052	-0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2052	-0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	-0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	-0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2052	0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2052	0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.2052	-0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	-0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	-0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	-0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.3	-0.2052	-0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	-0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	-0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	-0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.4	-0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	-0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.5	-0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	-0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.6	-0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	-0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.1	0	-0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0	0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	0	-0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0	0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.7	0	-0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.7	0	0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.1	-0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.7	-0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.7	0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2

1.1.5.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.5.3 Verifiche delle sezioni

1.1.5.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.005894	4.7	0	1,2,4,5	-6.7861	-17.7345	-430.28	-114.6084	-299.5133	SLU 18	16.889	Si
-0.01	0.005894	4.7	0	1,2,4,5	-5.9978	-16.3976	-427.99	-103.4612	-282.8558	SLU 18	17.25	Si
0.28	0.005894	4.7	0	1,2,4,5	-5.1956	-15.0371	-425.65	-91.5695	-265.02	SLU 18	17.624	Si
0.56	0.005894	3.2	0	2,4,5	-4.3934	-13.6765	-423.32	-79.0586	-246.1084	SLU 18	17.995	Si
0.85	0.005894	3.2	0	2,4,5	-3.5912	-12.316	-420.98	-65.3383	-224.0798	SLU 18	18.194	Si
1.14	0.005894	2.4	0	2,5	-2.7889	-10.9554	-418.64	-51.0257	-200.438	SLU 18	18.296	Si
1.43	0.005894	2.4	0	2,5	-1.9867	-9.5949	-416.31	-36.5525	-176.531	SLU 18	18.398	Si
1.71	0.005894	2.4	0	2,5	-1.1845	-8.2344	-413.97	-21.916	-152.3542	SLU 18	18.502	Si
2	0.005894	2.4	0	2,5	-0.3823	-6.8738	-411.64	-7.1133	-127.9029	SLU 18	18.607	Si
2.29	0.005894	2.4	0	2,5	0.4199	-5.5133	-409.3	7.8583	-103.1726	SLU 18	18.713	Si
2.58	0.005894	2.4	0	2,5	1.2221	-4.1528	-406.96	23.0018	-78.1584	SLU 18	18.821	Si
2.86	0.005894	2.4	0	2,5	2.0244	-2.7922	-404.63	38.3201	-52.8553	SLU 18	18.929	Si
3.15	0.005894	2.4	0	2,5	2.8126	-1.4553	-402.33	53.5453	-27.7061	SLU 18	19.037	Si
3.75	0.005894	4.7	0	2,3,5,6,7	3.6883	0.3803	-205.82	137.2592	14.1516	SLU 18	37.214	Si
4.04	0.005894	4.7	0	2,3,5,6,7	3.3259	0.3571	-203.5	125.1783	13.4388	SLU 18	37.638	Si
4.32	0.005894	4.7	0	2,3,5,6,7	2.9634	0.3338	-201.19	112.8193	12.7096	SLU 18	38.071	Si
4.61	0.005894	3.2	0	3,5,6,7	2.6009	0.3106	-198.87	100.1724	11.9633	SLU 18	38.514	Si
4.89	0.005894	3.2	0	3,5,6,7	2.2384	0.2874	-196.56	87.2276	11.1995	SLU 18	38.968	Si
5.18	0.005894	2.4	0	3,6,7	1.876	0.2642	-194.24	73.9742	10.4175	SLU 18	39.433	Si
5.46	0.005894	2.4	0	3,6,7	1.5135	0.241	-191.92	60.4009	9.6166	SLU 18	39.908	Si
5.75	0.005894	2.4	0	3,6,7	1.1447	0.2173	-189.57	46.2492	8.7816	SLU 18	40.404	Si
6.03	0.005894	2.4	0	3,6,7	0.7885	0.1945	-187.29	32.2476	7.9554	SLU 18	40.895	Si
6.32	0.005744	2.4	0	3,6,7	0.4261	0.1713	-184.98	17.5116	7.0412	SLU 18	41.101	Si
6.6	0.004982	2.4	0	3,6,7	0.07	0.1485	-182.7	2.8002	5.9448	SLU 18	40.031	Si

1.1.5.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.005894	4.7	0	1,2,4,5	-43.4523	-97.3891	-285.2	-336.8446	-754.9652	SLV 16	7.752				Si
-0.01	0.005894	4.7	0	1,2,4,5	-40.4865	-113.7462	-283.43	-274.2563	-770.5182	SLV 16	6.774				Si
0.28	0.005894	4.7	0	1,2,4,5	-37.6186	-139.1449	-281.63	-203.1737	-751.5046	SLV 16	5.401				Si
0.56	0.005894	3.2	0	2,4,5	-34.923	-169.1491	-279.84	-149.0383	-721.8655	SLV 16	4.268				Si
0.85	0.005894	3.2	0	2,4,5	-32.434	-201.5547	-278.04	-111.6033	-693.5376	SLV 16	3.441				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
1.14	0.005894	2.4	0	2,5	-30.2113	-235.3007	-276.24	-85.8152	-668.3715	SLV 16	2.84				Si
1.43	0.005894	2.4	0	2,5	-28.3571	-269.8525	-274.45	-68.1139	-648.1876	SLV 16	2.402				Si
1.71	0.005894	2.4	0	2,5	-27.0306	-304.9209	-272.65	-56.0478	-632.2517	SLV 16	2.073				Si
2	0.005894	2.4	0	2,5	-15.9776	-340.3382	-270.85	-29.1658	-621.2592	SLV 16	1.825				Si
2.29	0.005894	2.4	0	2,5	-8.8119	-376.0013	-269.05	-14.3417	-611.9513	SLV 16	1.628				Si
2.58	0.005894	2.4	0	2,5	-8.0034	-411.8439	-267.26	-11.7324	-603.7342	SLV 16	1.466				Si
2.86	0.005894	2.4	0	2,5	-6.6513	-447.8213	-265.46	-8.8672	-597.0167	SLV 16	1.333				Si
3.15	0.005894	2.4	0	2,5	-4.9803	-483.274	-263.7	-6.0956	-591.5076	SLV 16	1.224				Si
3.75	0.005894	4.7	0	2,3,5,6,7	7.0394	501.6151	-131.59	7.8498	559.3655	SLV 1	1.115				Si
4.04	0.005894	4.7	0	2,3,5,6,7	6.3476	451.9948	-129.81	7.893	562.0444	SLV 1	1.243				Si
4.32	0.005894	4.7	0	2,3,5,6,7	5.6558	402.3745	-128.02	7.9475	565.4203	SLV 1	1.405				Si
4.61	0.005894	3.2	0	3,5,6,7	4.964	352.7543	-126.24	8.0181	569.7909	SLV 1	1.615				Si
4.89	0.005894	3.2	0	3,5,6,7	4.2722	303.1341	-124.46	8.1133	575.6872	SLV 1	1.899				Si
5.18	0.005894	2.4	0	3,6,7	3.5804	253.514	-122.68	8.2492	584.0974	SLV 1	2.304				Si
5.46	0.005894	2.4	0	3,6,7	2.8886	203.894	-120.9	8.4586	597.0632	SLV 1	2.928				Si
5.75	0.005894	2.4	0	3,6,7	2.719	153.3737	-119.08	10.9926	620.0662	SLV 2	4.043				Si
6.03	0.005894	2.4	0	3,6,7	1.8731	104.6361	-117.33	11.9641	668.343	SLV 2	6.387				Si
6.32	0.005744	2.4	0	3,6,7	-3.9718	53.971	-115.54	-59.5604	809.3482	SLV 3	14.996				Si
6.6	0.004982	2.4	0	3,6,7	-0.6521	6.3553	-113.79	-53.6977	523.3498	SLV 3	82.348				Si

1.1.5.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.005894	4.7	0	1,2,4,5	-21.0714	-47.7618	-285.33	-362.6436	-821.99	SLD 16	17.21	Si
-0.01	0.005894	4.7	0	1,2,4,5	-19.5027	-54.2964	-283.57	-310.5508	-864.589	SLD 16	15.923	Si
0.28	0.005894	4.7	0	1,2,4,5	-17.9723	-64.6944	-281.77	-251.4096	-904.9908	SLD 16	13.989	Si
0.56	0.005894	3.2	0	2,4,5	-16.5179	-77.0656	-279.97	-196.9825	-919.0391	SLD 16	11.925	Si
0.85	0.005894	3.2	0	2,4,5	-15.1546	-90.4661	-278.18	-152.5547	-910.6819	SLD 16	10.067	Si
1.14	0.005894	2.4	0	2,5	-13.9089	-104.4411	-276.38	-116.5309	-875.0246	SLD 16	8.378	Si
1.43	0.005894	2.4	0	2,5	-12.8256	-118.7615	-274.58	-90.6133	-839.0554	SLD 16	7.065	Si
1.71	0.005894	2.4	0	2,5	-11.974	-133.3032	-272.78	-72.3584	-805.5428	SLD 16	6.043	Si
2	0.005894	2.4	0	2,5	-6.9203	-147.9945	-270.99	-36.4295	-779.0651	SLD 16	5.264	Si
2.29	0.005894	2.4	0	2,5	-3.5224	-162.7911	-269.19	-16.2579	-751.3729	SLD 16	4.616	Si
2.58	0.005894	2.4	0	2,5	-2.8692	-177.6647	-267.39	-11.7387	-726.8761	SLD 16	4.091	Si
2.86	0.005894	2.4	0	2,5	-1.9871	-192.5959	-265.6	-7.2965	-707.2015	SLD 16	3.672	Si
3.15	0.005894	2.4	0	2,5	-0.9765	-207.3108	-263.83	-3.2562	-691.26	SLD 16	3.334	Si
3.75	0.005894	4.7	0	2,3,5,6,7	4.3632	214.886	-131.51	12.1656	599.1499	SLD 1	2.788	Si
4.04	0.005894	4.7	0	2,3,5,6,7	3.9344	193.6344	-129.73	12.3197	606.3215	SLD 1	3.131	Si
4.32	0.005894	4.7	0	2,3,5,6,7	4.0959	172.3465	-127.95	14.6245	615.3729	SLD 2	3.571	Si
4.61	0.005894	3.2	0	3,5,6,7	3.5949	151.0996	-126.17	14.93	627.5354	SLD 2	4.153	Si
4.89	0.005894	3.2	0	3,5,6,7	3.0939	129.8527	-124.38	15.3544	644.4359	SLD 2	4.963	Si
5.18	0.005894	2.4	0	3,6,7	2.5929	108.6058	-122.6	15.9733	669.0606	SLD 2	6.16	Si
5.46	0.005894	2.4	0	3,6,7	2.0919	87.359	-120.82	16.93	707.0112	SLD 2	8.093	Si
5.75	0.005894	2.4	0	3,6,7	1.5821	65.7396	-119.01	18.7309	778.3096	SLD 2	11.839	Si
6.03	0.005894	2.4	0	3,6,7	1.0899	44.8661	-117.26	21.8999	901.5259	SLD 2	20.094	Si
6.32	0.005744	2.4	0	3,6,7	2.1204	-22.9381	-115.37	90.6503	-980.6341	SLD 14	42.751	Si
6.6	0.004982	2.4	0	3,6,7	0.0828	2.5394	-113.73	7.414	227.5199	SLD 1	89.594	Si

1.1.5.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	6.209	1961	1.347	0.368	1.298	SLV 16	Si
-0.01	5.32	1961	1.347	0.368	1.298	SLV 16	Si
0.28	4.322	1961	1.347	0.368	1.298	SLV 16	Si
0.56	3.525	1961	1.347	0.368	1.298	SLV 16	Si
0.85	2.939	1961	1.347	0.368	1.298	SLV 16	Si
1.14	2.506	1961	1.347	0.368	1.298	SLV 16	Si
1.43	2.172	1961	1.347	0.368	1.298	SLV 16	Si
1.71	1.918	1961	1.347	0.368	1.298	SLV 16	Si
2	1.715	1961	1.347	0.368	1.298	SLV 16	Si
2.29	1.551	1961	1.347	0.368	1.298	SLV 16	Si
2.58	1.414	1961	1.347	0.368	1.298	SLV 16	Si
2.86	1.299	1961	1.347	0.368	1.298	SLV 16	Si
3.15	1.201	1686	1.266	0.349	1.229	SLV 16	Si
3.75	1.109	1310	1.141	0.318	1.123	SLV 1	Si
4.04	1.23	1820	1.306	0.358	1.264	SLV 1	Si
4.32	1.383	1961	1.347	0.368	1.298	SLV 1	Si
4.61	1.574	1961	1.347	0.368	1.298	SLV 1	Si
4.89	1.832	1961	1.347	0.368	1.298	SLV 1	Si
5.18	2.189	1961	1.347	0.368	1.298	SLV 1	Si
5.46	2.723	1961	1.347	0.368	1.298	SLV 1	Si
5.75	3.619	1961	1.347	0.368	1.298	SLV 1	Si
6.03	5.3	1961	1.347	0.368	1.298	SLV 1	Si
6.32	10.023	1961	1.347	0.368	1.298	SLV 3	Si
6.6	75.91	1961	1.347	0.368	1.298	SLV 13	Si

1.1.5.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	14.506	1961	3.374	0.368	3.05	SLD 16	Si
-0.01	12.426	1961	3.374	0.368	3.05	SLD 16	Si
0.28	10.097	1961	3.374	0.368	3.05	SLD 16	Si
0.56	8.236	1961	3.374	0.368	3.05	SLD 16	Si
0.85	6.865	1961	3.374	0.368	3.05	SLD 16	Si
1.14	5.854	1961	3.374	0.368	3.05	SLD 16	Si
1.43	5.074	1961	3.374	0.368	3.05	SLD 16	Si
1.71	4.479	1961	3.374	0.368	3.05	SLD 16	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
2	4.008	1961	3.374	0.368	3.05	SLD 16	Si
2.29	3.625	1961	3.374	0.368	3.05	SLD 16	Si
2.58	3.303	1961	3.374	0.368	3.05	SLD 16	Si
2.86	3.033	1961	3.374	0.368	3.05	SLD 16	Si
3.15	2.811	1694	3.177	0.349	2.894	SLD 15	Si
3.75	2.594	1313	2.862	0.319	2.641	SLD 1	Si
4.04	2.875	1821	3.273	0.358	2.97	SLD 1	Si
4.32	3.227	1961	3.374	0.368	3.05	SLD 1	Si
4.61	3.684	1961	3.374	0.368	3.05	SLD 1	Si
4.89	4.281	1961	3.374	0.368	3.05	SLD 1	Si
5.18	5.115	1961	3.374	0.368	3.05	SLD 1	Si
5.46	6.359	1961	3.374	0.368	3.05	SLD 1	Si
5.75	8.456	1961	3.374	0.368	3.05	SLD 1	Si
6.03	12.396	1961	3.374	0.368	3.05	SLD 1	Si
6.32	23.433	1961	3.374	0.368	3.05	SLD 3	Si
6.6	177.309	1961	3.374	0.368	3.05	SLD 13	Si

1.1.5.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	4.8	-344.13	SLU 7	165.68	391.99	1010.49	2.5	81.58	3.64	-371.29	SLU 15	169.41	391.99	1014.34	2.5	107.82	Si
-0.01	2X/2Y ø8/10	4.8	-342.36	SLU 7	165.44	391.99	1010.24	2.5	81.58	3.64	-369	SLU 15	169.09	391.99	1014.02	2.5	107.82	Si
0.28	2X/2Y ø8/10	4.8	-340.57	SLU 7	165.19	391.99	1009.98	2.5	81.58	3.64	-366.66	SLU 15	168.77	391.99	1013.68	2.5	107.82	Si
0.56	2X/2Y ø8/14.9	4.8	-338.77	SLU 7	164.95	263.77	1009.73	2.5	54.9	3.64	-364.32	SLU 15	168.45	263.77	1013.35	2.5	72.55	Si
0.85	2X/2Y ø8/14.9	4.8	-336.97	SLU 7	164.7	263.77	1009.47	2.5	54.9	3.64	-361.99	SLU 15	168.13	263.77	1013.02	2.5	72.55	Si
1.14	2X/2Y ø8/14.9	4.8	-335.18	SLU 7	164.45	263.77	1009.22	2.5	54.9	3.64	-359.65	SLU 15	167.81	263.77	1012.69	2.5	72.55	Si
1.43	2X/2Y ø8/14.9	4.8	-333.38	SLU 7	164.21	263.77	1008.96	2.5	54.9	3.64	-357.32	SLU 15	167.49	263.77	1012.36	2.5	72.55	Si
1.71	2X/2Y ø8/14.9	4.8	-331.58	SLU 7	163.96	263.77	1008.71	2.5	54.9	3.64	-354.98	SLU 15	167.17	263.77	1012.03	2.5	72.55	Si
2	2X/2Y ø8/14.9	4.8	-329.79	SLU 7	163.71	263.77	1008.45	2.5	54.9	3.64	-352.64	SLU 15	166.85	263.77	1011.7	2.5	72.55	Si
2.29	2X/2Y ø8/14.9	4.8	-327.99	SLU 7	163.47	263.77	1008.2	2.5	54.9	3.64	-350.31	SLU 15	166.53	263.77	1011.37	2.5	72.55	Si
2.58	2X/2Y ø8/14.9	4.8	-326.19	SLU 7	163.22	263.77	1007.94	2.5	54.9	3.64	-347.97	SLU 15	166.21	263.77	1011.03	2.5	72.55	Si
2.86	2X/2Y ø8/14.9	4.8	-324.4	SLU 7	162.98	263.77	1007.69	2.5	54.9	3.64	-345.64	SLU 15	165.89	263.77	1010.7	2.5	72.55	Si
3.15	2X/2Y ø8/14.9	4.8	-322.63	SLU 7	162.73	263.77	1007.44	2.5	54.9	3.64	-343.34	SLU 15	165.57	263.77	1010.38	2.5	72.55	Si
3.75	2X/2Y ø8/14.9	-0.01	-181.47	SLU 7	143.38	263.77	987.42	2.5	1000	-1.77	-145.74	SLU 14	138.48	263.77	982.35	2.5	149.1	Si
4.04	2X/2Y ø8/14.9	-0.01	-179.69	SLU 7	143.14	263.77	987.17	2.5	1000	-1.77	-143.42	SLU 14	138.16	263.77	982.02	2.5	149.1	Si
4.32	2X/2Y ø8/14.9	-0.01	-177.91	SLU 7	142.89	263.77	986.91	2.5	1000	-1.77	-141.11	SLU 14	137.85	263.77	981.69	2.5	149.1	Si
4.61	2X/2Y ø8/14.9	-0.01	-176.13	SLU 7	142.65	263.77	986.66	2.5	1000	-1.77	-138.79	SLU 14	137.53	263.77	981.37	2.5	149.1	Si
4.89	2X/2Y ø8/14.9	-0.01	-174.35	SLU 7	142.4	263.77	986.41	2.5	1000	-1.77	-136.47	SLU 14	137.21	263.77	981.04	2.5	149.1	Si
5.18	2X/2Y ø8/14.9	-0.01	-172.57	SLU 7	142.16	263.77	986.16	2.5	1000	-1.77	-134.16	SLU 14	136.89	263.77	980.71	2.5	149.1	Si
5.46	2X/2Y ø8/14.9	-0.01	-170.79	SLU 7	141.92	263.77	985.9	2.5	1000	-1.77	-131.84	SLU 14	136.58	263.77	980.38	2.5	149.1	Si
5.75	2X/2Y ø8/9.7	-0.01	-168.97	SLU 7	141.67	404.63	985.65	2.5	1000	-1.77	-129.49	SLU 14	136.25	404.63	980.05	2.5	228.72	Si
6.03	2X/2Y ø8/9.7	-0.01	-167.22	SLU 7	141.43	404.63	985.4	2.5	1000	-1.77	-127.21	SLU 14	135.94	404.63	979.72	2.5	228.72	Si
6.32	2X/2Y ø8/9.7	-0.01	-165.44	SLU 7	141.18	404.63	985.15	2.5	1000	-1.77	-124.9	SLU 14	135.62	404.63	979.4	2.5	228.72	Si
6.6	2X/2Y ø8/9.7	-0.01	-163.69	SLU 7	140.94	404.63	984.9	2.5	1000	-1.77	-122.62	SLU 14	135.31	404.63	979.07	2.5	228.72	Si

1.1.5.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	134.11	-285.65	SLV 4	157.66	391.99	1002.19	2.5	2.92	18.61	-285.39	SLV 10	157.63	391.99	1002.16	2.5	21.06	Si
-0.01	2X/2Y ø8/10	134.11	-283.88	SLV 4	157.42	391.99	1001.94	2.5	2.92	18.61	-283.63	SLV 10	157.39	391.99	1001.91	2.5	21.06	Si
0.28	2X/2Y ø8/10	134.11	-282.09	SLV 4	157.18	391.99	1001.69	2.5	2.92	18.61	-281.83	SLV 10	157.14	391.99	1001.65	2.5	21.06	Si
0.56	2X/2Y ø8/14.9	134.11	-280.29	SLV 4	156.93	263.77	1001.43	2.5	1.97	18.61	-280.03	SLV 10	156.89	263.77	1001.4	2.5	14.17	Si
0.85	2X/2Y ø8/14.9	134.11	-278.49	SLV 4	156.68	263.77	1001.18	2.5	1.97	18.61	-278.24	SLV 10	156.65	263.77	1001.14	2.5	14.17	Si
1.14	2X/2Y ø8/14.9	134.11	-276.7	SLV 4	156.44	263.77	1000.92	2.5	1.97	18.61	-276.44	SLV 10	156.4	263.77	1000.89	2.5	14.17	Si
1.43	2X/2Y ø8/14.9	134.11	-274.9	SLV 4	156.19	263.77	1000.67	2.5	1.97	18.61	-274.64	SLV 10	156.15	263.77	1000.63	2.5	14.17	Si
1.71	2X/2Y ø8/14.9	134.11	-273.1	SLV 4	155.94	263.77	1000.42	2.5	1.97	18.61	-272.85	SLV 10	155.91	263.77	1000.38	2.5	14.17	Si
2	2X/2Y ø8/14.9	134.11	-271.31	SLV 4	155.7	263.77	1000.16	2.5	1.97	18.61	-271.05	SLV 10	155.66	263.77	1000.12	2.5	14.17	Si
2.29	2X/2Y ø8/14.9	134.11	-269.51	SLV 4	155.45	263.77	999.91	2.5	1.97	18.61	-269.25	SLV 10	155.42	263.77	999.87	2.5	14.17	Si
2.58	2X/2Y ø8/14.9	134.11	-267.71	SLV 4	155.2	263.77	999.65	2.5	1.97	18.61	-267.46	SLV 10	155.17	263.77	999.61	2.5	14.17	Si
2.86	2X/2Y ø8/14.9	134.11	-265.91	SLV 4	154.96	263.77	999.4	2.5	1.97	18.61	-265.66	SLV 10	154.92	263.77	999.36	2.5	14.17	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
3.15	2X/2Y ø8/14.9	134.11	-264.15	SLV 4	154.72	263.77	999.15	2.5	1.97	18.61	-263.89	SLV 10	154.68	263.77	999.11	2.5	14.17	Si
3.75	2X/2Y ø8/14.9	-174.11	-131.59	SLV 1	136.54	263.77	980.34	2.5	1.51	-26.37	-131.43	SLV 10	136.52	263.77	980.32	2.5	10	Si
4.04	2X/2Y ø8/14.9	-174.11	-129.81	SLV 1	136.3	263.77	980.09	2.5	1.51	-26.37	-129.65	SLV 10	136.28	263.77	980.07	2.5	10	Si
4.32	2X/2Y ø8/14.9	-174.11	-128.02	SLV 1	136.05	263.77	979.84	2.5	1.51	-26.37	-127.87	SLV 10	136.03	263.77	979.82	2.5	10	Si
4.61	2X/2Y ø8/14.9	-174.11	-126.24	SLV 1	135.81	263.77	979.59	2.5	1.51	-26.37	-126.09	SLV 10	135.79	263.77	979.56	2.5	10	Si
4.89	2X/2Y ø8/14.9	-174.11	-124.46	SLV 1	135.56	263.77	979.33	2.5	1.51	-26.37	-124.31	SLV 10	135.54	263.77	979.31	2.5	10	Si
5.18	2X/2Y ø8/14.9	-174.11	-122.68	SLV 1	135.32	263.77	979.08	2.5	1.51	-26.37	-122.53	SLV 10	135.3	263.77	979.06	2.5	10	Si
5.46	2X/2Y ø8/14.9	-174.11	-120.9	SLV 1	135.08	263.77	978.83	2.5	1.51	-26.37	-120.75	SLV 10	135.06	263.77	978.81	2.5	10	Si
5.75	2X/2Y ø8/9.7	-174.11	-119.09	SLV 1	134.83	404.63	978.57	2.5	2.32	-26.37	-118.93	SLV 10	134.81	404.63	978.55	2.5	15.35	Si
6.03	2X/2Y ø8/9.7	-174.11	-117.34	SLV 1	134.59	404.63	978.32	2.5	2.32	-26.37	-117.18	SLV 10	134.57	404.63	978.3	2.5	15.35	Si
6.32	2X/2Y ø8/9.7	-174.11	-115.56	SLV 1	134.34	404.63	978.07	2.5	2.32	-26.37	-115.4	SLV 10	134.32	404.63	978.05	2.5	15.35	Si
6.6	2X/2Y ø8/9.7	-174.11	-113.81	SLV 1	134.1	404.63	977.82	2.5	2.32	-26.37	-113.65	SLV 10	134.08	404.63	977.8	2.5	15.35	Si

1.1.5.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	3.45	X	2.263	0.143	0.5	0.0236	0.000527	0.017902	0	157.664	1453.182	391.986	156.794	263.672	391.986	134.106	-285.649	SLV 4	Si
-0.3	-0.975	3.45	Y	2.263	0.143	0.5	0.0236	0.000317	0.017902	0	157.629	1453.13	391.986	156.794	263.655	391.986	18.612	-285.394	SLV 10	Si

1.1.5.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	59.04	-285.53	SLD 4	157.65	391.99	1002.18	2.5	6.64	9.08	-285.42	SLD 10	157.63	391.99	1002.16	2.5	43.19	Si
-0.01	2X/2Y ø8/10	59.04	-283.76	SLD 4	157.4	391.99	1001.93	2.5	6.64	9.08	-283.65	SLD 10	157.39	391.99	1001.91	2.5	43.19	Si
0.28	2X/2Y ø8/10	59.04	-281.96	SLD 4	157.16	391.99	1001.67	2.5	6.64	9.08	-281.85	SLD 10	157.14	391.99	1001.66	2.5	43.19	Si
0.56	2X/2Y ø8/14.9	59.04	-280.17	SLD 4	156.91	263.77	1001.42	2.5	4.47	9.08	-280.06	SLD 10	156.9	263.77	1001.4	2.5	29.06	Si
0.85	2X/2Y ø8/14.9	59.04	-278.37	SLD 4	156.67	263.77	1001.16	2.5	4.47	9.08	-278.26	SLD 10	156.65	263.77	1001.15	2.5	29.06	Si
1.14	2X/2Y ø8/14.9	59.04	-276.57	SLD 4	156.42	263.77	1000.91	2.5	4.47	9.08	-276.46	SLD 10	156.4	263.77	1000.89	2.5	29.06	Si
1.43	2X/2Y ø8/14.9	59.04	-274.78	SLD 4	156.17	263.77	1000.65	2.5	4.47	9.08	-274.67	SLD 10	156.16	263.77	1000.64	2.5	29.06	Si
1.71	2X/2Y ø8/14.9	59.04	-272.98	SLD 4	155.93	263.77	1000.4	2.5	4.47	9.08	-272.87	SLD 10	155.91	263.77	1000.38	2.5	29.06	Si
2	2X/2Y ø8/14.9	59.04	-271.18	SLD 4	155.68	263.77	1000.14	2.5	4.47	9.08	-271.07	SLD 10	155.67	263.77	1000.13	2.5	29.06	Si
2.29	2X/2Y ø8/14.9	59.04	-269.39	SLD 4	155.43	263.77	999.89	2.5	4.47	9.08	-269.28	SLD 10	155.42	263.77	999.87	2.5	29.06	Si
2.58	2X/2Y ø8/14.9	59.04	-267.59	SLD 4	155.19	263.77	999.63	2.5	4.47	9.08	-267.48	SLD 10	155.17	263.77	999.62	2.5	29.06	Si
2.86	2X/2Y ø8/14.9	59.04	-265.79	SLD 4	154.94	263.77	999.38	2.5	4.47	9.08	-265.68	SLD 10	154.93	263.77	999.36	2.5	29.06	Si
3.15	2X/2Y ø8/14.9	59.04	-264.03	SLD 4	154.7	263.77	999.13	2.5	4.47	9.08	-263.92	SLD 10	154.68	263.77	999.11	2.5	29.06	Si
3.75	2X/2Y ø8/14.9	-74.57	-131.51	SLD 1	136.53	263.77	980.33	2.5	3.54	-11.81	-131.44	SLD 10	136.52	263.77	980.32	2.5	22.33	Si
4.04	2X/2Y ø8/14.9	-74.57	-129.73	SLD 1	136.29	263.77	980.08	2.5	3.54	-11.81	-129.66	SLD 10	136.28	263.77	980.07	2.5	22.33	Si
4.32	2X/2Y ø8/14.9	-74.57	-127.95	SLD 1	136.04	263.77	979.83	2.5	3.54	-11.81	-127.88	SLD 10	136.03	263.77	979.82	2.5	22.33	Si
4.61	2X/2Y ø8/14.9	-74.57	-126.17	SLD 1	135.8	263.77	979.58	2.5	3.54	-11.81	-126.1	SLD 10	135.79	263.77	979.57	2.5	22.33	Si
4.89	2X/2Y ø8/14.9	-74.57	-124.39	SLD 1	135.55	263.77	979.32	2.5	3.54	-11.81	-124.32	SLD 10	135.55	263.77	979.31	2.5	22.33	Si
5.18	2X/2Y ø8/14.9	-74.57	-122.6	SLD 1	135.31	263.77	979.07	2.5	3.54	-11.81	-122.54	SLD 10	135.3	263.77	979.06	2.5	22.33	Si
5.46	2X/2Y ø8/14.9	-74.57	-120.82	SLD 1	135.07	263.77	978.82	2.5	3.54	-11.81	-120.76	SLD 10	135.06	263.77	978.81	2.5	22.33	Si
5.75	2X/2Y ø8/9.7	-74.57	-119.01	SLD 1	134.82	404.63	978.56	2.5	5.43	-11.81	-118.94	SLD 10	134.81	404.63	978.55	2.5	34.26	Si
6.03	2X/2Y ø8/9.7	-74.57	-117.26	SLD 1	134.58	404.63	978.31	2.5	5.43	-11.81	-117.19	SLD 10	134.57	404.63	978.3	2.5	34.26	Si
6.32	2X/2Y ø8/9.7	-74.57	-115.48	SLD 1	134.33	404.63	978.06	2.5	5.43	-11.81	-115.41	SLD 10	134.32	404.63	978.05	2.5	34.26	Si
6.6	2X/2Y ø8/9.7	-74.57	-113.73	SLD 1	134.09	404.63	977.81	2.5	5.43	-11.81	-113.66	SLD 10	134.08	404.63	977.8	2.5	34.26	Si

1.1.5.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.01	2.963	1961	1.347	0.368	1.298	SLV 4	Si
0.28	2.963	1961	1.347	0.368	1.298	SLV 4	Si
0.56	1.988	1961	1.347	0.368	1.298	SLV 4	Si
0.85	1.988	1961	1.347	0.368	1.298	SLV 4	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
1.14	1.988	1961	1.347	0.368	1.298	SLV 4	Si
1.43	1.988	1961	1.347	0.368	1.298	SLV 4	Si
1.71	1.988	1961	1.347	0.368	1.298	SLV 4	Si
2	1.988	1961	1.347	0.368	1.298	SLV 4	Si
2.29	1.988	1961	1.347	0.368	1.298	SLV 4	Si
2.58	1.988	1961	1.347	0.368	1.298	SLV 4	Si
2.86	1.988	1961	1.347	0.368	1.298	SLV 4	Si
3.15	1.988	1961	1.347	0.368	1.298	SLV 4	Si
3.75	1.516	1961	1.347	0.368	1.298	SLV 1	Si
4.04	1.516	1961	1.347	0.368	1.298	SLV 1	Si
4.32	1.516	1961	1.347	0.368	1.298	SLV 1	Si
4.61	1.516	1961	1.347	0.368	1.298	SLV 1	Si
4.89	1.516	1961	1.347	0.368	1.298	SLV 1	Si
5.18	1.516	1961	1.347	0.368	1.298	SLV 1	Si
5.46	1.516	1961	1.347	0.368	1.298	SLV 1	Si
5.75	2.324	1961	1.347	0.368	1.298	SLV 1	Si
6.03	2.324	1961	1.347	0.368	1.298	SLV 1	Si
6.32	2.324	1961	1.347	0.368	1.298	SLV 1	Si
6.6	2.324	1961	1.347	0.368	1.298	SLV 1	Si

1.1.5.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	6.92	1961	3.374	0.368	3.05	SLD 4	Si
-0.01	6.92	1961	3.374	0.368	3.05	SLD 4	Si
0.28	6.92	1961	3.374	0.368	3.05	SLD 4	Si
0.56	4.644	1961	3.374	0.368	3.05	SLD 4	Si
0.85	4.644	1961	3.374	0.368	3.05	SLD 4	Si
1.14	4.644	1961	3.374	0.368	3.05	SLD 4	Si
1.43	4.644	1961	3.374	0.368	3.05	SLD 4	Si
1.71	4.644	1961	3.374	0.368	3.05	SLD 4	Si
2	4.644	1961	3.374	0.368	3.05	SLD 4	Si
2.29	4.644	1961	3.374	0.368	3.05	SLD 4	Si
2.58	4.644	1961	3.374	0.368	3.05	SLD 4	Si
2.86	4.644	1961	3.374	0.368	3.05	SLD 4	Si
3.15	4.644	1961	3.374	0.368	3.05	SLD 4	Si
3.75	3.543	1961	3.374	0.368	3.05	SLD 1	Si
4.04	3.543	1961	3.374	0.368	3.05	SLD 1	Si
4.32	3.543	1961	3.374	0.368	3.05	SLD 1	Si
4.61	3.543	1961	3.374	0.368	3.05	SLD 1	Si
4.89	3.543	1961	3.374	0.368	3.05	SLD 1	Si
5.18	3.543	1961	3.374	0.368	3.05	SLD 1	Si
5.46	3.543	1961	3.374	0.368	3.05	SLD 1	Si
5.75	5.43	1961	3.374	0.368	3.05	SLD 1	Si
6.03	5.43	1961	3.374	0.368	3.05	SLD 1	Si
6.32	5.43	1961	3.374	0.368	3.05	SLD 1	Si
6.6	5.43	1961	3.374	0.368	3.05	SLD 1	Si

1.1.5.4 Verifiche nodi trave colonna

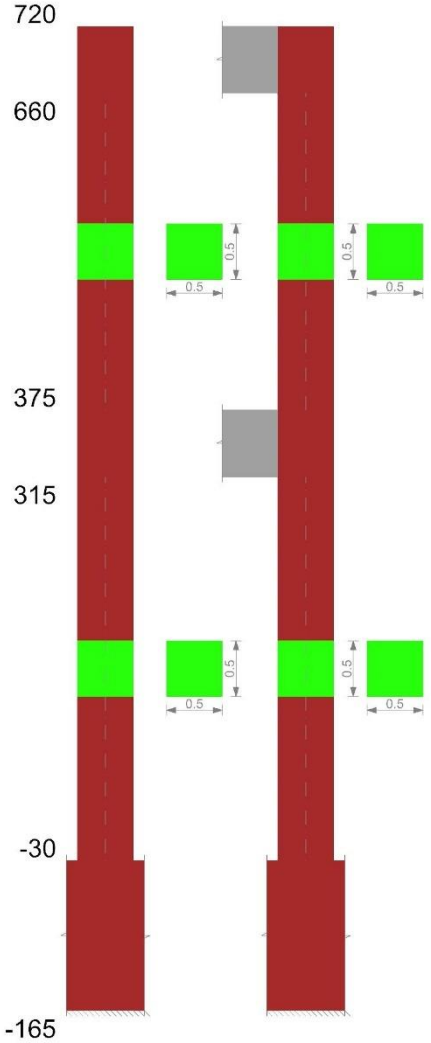
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.5.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.6 P9

Geometria



1.1.6.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.6.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	3.15	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2
3.75	6.6	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2

1.1.6.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2052	-0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2052	-0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	-0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	-0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2052	0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2052	0.2052	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2052	0.1652	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.2052	-0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	-0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	-0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	-0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2052	0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	0.2052	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2052	0.1652	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.3	-0.2052	-0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	-0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	-0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	-0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	0.2052	0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	0.2052	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2052	0.1652	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.4	-0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.4	-0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.5	-0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.5	-0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.6	-0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.6	-0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.1	0	-0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0	0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	0	-0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0	0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.7	0	-0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.7	0	0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.1	-0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.2	0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.7	-0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.7	0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2

1.1.6.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.6.3 Verifiche delle sezioni

1.1.6.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.005894	4.7	0	1,2,4,5	-6.7844	-19.8397	-290.57	-148.071	-433.0019	SLU 18	21.825	Si
-0.01	0.005894	4.7	0	1,2,4,5	-5.9972	-17.2264	-288.27	-137.7734	-395.7417	SLU 18	22.973	Si
0.28	0.005894	4.7	0	1,2,4,5	-5.196	-14.5668	-285.94	-125.8245	-352.7461	SLU 18	24.216	Si
0.56	0.005894	3.2	0	2,4,5	-4.3948	-11.9073	-283.6	-112.2507	-304.1331	SLU 18	25.542	Si
0.85	0.005894	3.2	0	2,4,5	-3.5936	-9.2477	-281.26	-96.8723	-249.2908	SLU 18	26.957	Si
1.14	0.005894	2.4	0	2,5	-2.9687	-6.2099	-279.96	-81.2196	-169.8974	SLU 20	27.359	Si
1.43	0.005894	2.4	0	2,5	-2.0712	-3.6693	-277.62	-57.143	-101.233	SLU 20	27.589	Si
1.71	0.005894	2.4	0	2,5	-1.1738	-1.1287	-275.29	-32.6577	-31.4032	SLU 20	27.823	Si
2	0.005894	2.4	0	2,5	-0.2763	1.412	-272.95	-7.7534	39.6217	SLU 20	28.061	Si
2.29	0.005894	2.4	0	2,5	0.6212	3.9526	-270.62	17.5809	111.8728	SLU 20	28.304	Si
2.58	0.005894	2.4	0	2,5	1.5186	6.4932	-268.28	43.3564	185.3821	SLU 20	28.55	Si
2.86	0.005894	2.4	0	2,5	2.0148	9.3691	-264.91	57.2452	266.1975	SLU 18	28.412	Si
3.15	0.005894	2.4	0	2,5	2.8021	11.9824	-262.62	76.4321	326.844	SLU 18	27.277	Si
3.75	0.005894	4.7	0	2,3,5,6,7	3.6771	14.7678	-143.26	138.2596	555.2693	SLU 18	37.6	Si
4.04	0.005894	4.7	0	2,3,5,6,7	3.3157	13.3016	-140.95	132.3257	530.8422	SLU 18	39.908	Si
4.32	0.005894	4.7	0	2,3,5,6,7	2.9544	11.8353	-138.63	125.3883	502.309	SLU 18	42.442	Si
4.61	0.005894	3.2	0	3,5,6,7	2.593	10.3691	-136.31	117.1911	468.6308	SLU 18	45.195	Si
4.89	0.005894	3.2	0	3,5,6,7	2.2316	8.9028	-134	107.6301	429.376	SLU 18	48.229	Si
5.18	0.005894	2.4	0	3,6,7	1.8703	7.4365	-131.68	96.4164	383.3718	SLU 18	51.552	Si
5.46	0.005894	2.4	0	3,6,7	1.5089	5.9703	-129.37	83.2644	329.4564	SLU 18	55.183	Si
5.75	0.005894	2.4	0	3,6,7	1.1412	4.4783	-127.01	67.6017	265.2893	SLU 18	59.239	Si
6.03	0.005894	2.4	0	3,6,7	0.7861	3.0378	-124.74	48.2726	186.5333	SLU 18	61.404	Si
6.32	0.005744	2.4	0	3,6,7	0.4248	1.5715	-122.42	26.3794	97.5964	SLU 18	62.103	Si
6.6	0.004982	2.4	0	3,6,7	0.0697	0.131	-120.15	4.2453	7.9745	SLU 18	60.874	Si

1.1.6.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.005894	4.7	0	1,2,4,5	-43.4373	-127.842	-199.14	-229.591	-675.7184	SLV 16	5.286				Si
-0.01	0.005894	4.7	0	1,2,4,5	-40.4807	-135.0684	-197.37	-202.2456	-674.8148	SLV 16	4.996				Si
0.28	0.005894	4.7	0	1,2,4,5	-37.6224	-143.4669	-195.58	-176.3084	-672.3243	SLV 16	4.686				Si
0.56	0.005894	3.2	0	2,4,5	-34.9363	-152.751	-193.78	-152.6146	-667.2727	SLV 16	4.368				Si
0.85	0.005894	3.2	0	2,4,5	-32.4567	-162.7088	-191.98	-131.8121	-660.7869	SLV 16	4.061				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
1.14	0.005894	2.4	0	2,5	-30.2429	-173.1575	-190.18	-114.0164	-652.8065	SLV 16	3.77				Si
1.43	0.005894	2.4	0	2,5	-28.396	-183.9683	-188.39	-99.5431	-644.9072	SLV 16	3.506				Si
1.71	0.005894	2.4	0	2,5	-27.0735	-195.0542	-186.59	-88.4714	-637.4025	SLV 16	3.268				Si
2	0.005894	2.4	0	2,5	15.6799	208.6166	-186.79	47.5845	633.0991	SLV 1	3.035				Si
2.29	0.005894	2.4	0	2,5	9.5431	223.3606	-184.99	26.734	625.7216	SLV 1	2.801				Si
2.58	0.005894	2.4	0	2,5	9.7854	238.2453	-183.19	25.3843	618.0301	SLV 1	2.594				Si
2.86	0.005894	2.4	0	2,5	9.4841	253.2466	-181.4	22.8986	611.4427	SLV 1	2.414				Si
3.15	0.005894	2.4	0	2,5	8.8442	268.082	-179.63	19.9861	605.8141	SLV 1	2.26				Si
3.75	0.005894	4.7	0	2,3,5,6,7	-34.3736	270.1802	-96.71	-72.0611	566.4079	SLV 3	2.096				Si
4.04	0.005894	4.7	0	2,3,5,6,7	-30.9955	243.8284	-94.92	-72.4331	569.8006	SLV 3	2.337				Si
4.32	0.005894	4.7	0	2,3,5,6,7	-27.6174	217.4769	-93.14	-72.9016	574.0728	SLV 3	2.64				Si
4.61	0.005894	3.2	0	3,5,6,7	-24.2393	191.1254	-91.36	-73.5094	579.6172	SLV 3	3.033				Si
4.89	0.005894	3.2	0	3,5,6,7	-20.8612	164.7742	-89.58	-74.3299	587.1014	SLV 3	3.563				Si
5.18	0.005894	2.4	0	3,6,7	-17.4831	138.4233	-87.8	-75.4942	597.7286	SLV 3	4.318				Si
5.46	0.005894	2.4	0	3,6,7	-14.105	112.0731	-86.02	-77.2807	614.0423	SLV 3	5.479				Si
5.75	0.005894	2.4	0	3,6,7	-10.6677	85.2617	-84.21	-80.4175	642.7397	SLV 3	7.538				Si
6.03	0.005894	2.4	0	3,6,7	-7.3488	59.3777	-82.46	-86.6461	700.0898	SLV 3	11.79				Si
6.32	0.005744	2.4	0	3,6,7	-3.9707	33.0412	-80.67	-100.8032	838.8	SLV 3	25.386				Si
6.6	0.004982	2.4	0	3,6,7	-0.6193	7.4401	-78.91	-61.0811	733.7541	SLV 4	98.621				Si

1.1.6.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.005894	4.7	0	1,2,4,5	-21.0644	-61.5499	-199.71	-282.9322	-826.7241	SLD 16	13.432	Si
-0.01	0.005894	4.7	0	1,2,4,5	-19.5	-63.7154	-197.94	-256.7259	-838.8419	SLD 16	13.165	Si
0.28	0.005894	4.7	0	1,2,4,5	-17.9741	-66.3701	-196.15	-229.637	-847.945	SLD 16	12.776	Si
0.56	0.005894	3.2	0	2,4,5	-16.5241	-69.4086	-194.35	-202.2847	-849.6847	SLD 16	12.242	Si
0.85	0.005894	3.2	0	2,4,5	-15.1653	-72.739	-192.55	-176.9542	-848.7466	SLD 16	11.668	Si
1.14	0.005894	2.4	0	2,5	-13.9237	-76.2816	-190.75	-153.3359	-840.0581	SLD 16	11.013	Si
1.43	0.005894	2.4	0	2,5	-12.8438	-79.9804	-188.96	-133.1925	-829.408	SLD 16	10.37	Si
1.71	0.005894	2.4	0	2,5	-11.9943	-83.7978	-187.16	-117.177	-818.6502	SLD 16	9.769	Si
2	0.005894	2.4	0	2,5	6.6145	89.9688	-186.22	59.7771	813.0705	SLD 1	9.037	Si
2.29	0.005894	2.4	0	2,5	4.2493	97.2231	-184.42	34.5526	790.5474	SLD 1	8.131	Si
2.58	0.005894	2.4	0	2,5	4.6381	104.538	-182.62	33.9456	765.0958	SLD 1	7.319	Si
2.86	0.005894	2.4	0	2,5	4.798	111.9029	-180.83	31.8511	742.8646	SLD 1	6.638	Si
3.15	0.005894	2.4	0	2,5	4.8106	119.1806	-179.06	29.2478	724.5981	SLD 1	6.08	Si
3.75	0.005894	4.7	0	2,3,5,6,7	-13.4184	121.0567	-96.41	-68.5454	618.3954	SLD 3	5.108	Si
4.04	0.005894	4.7	0	2,3,5,6,7	-12.0997	109.2401	-94.63	-69.4976	627.4468	SLD 3	5.744	Si
4.32	0.005894	4.7	0	2,3,5,6,7	-10.781	97.4235	-92.85	-70.7186	639.0553	SLD 3	6.56	Si
4.61	0.005894	3.2	0	3,5,6,7	-9.4623	85.607	-91.07	-72.3407	654.4788	SLD 3	7.645	Si
4.89	0.005894	3.2	0	3,5,6,7	-8.1436	73.7906	-89.29	-74.5852	675.8304	SLD 3	9.159	Si
5.18	0.005894	2.4	0	3,6,7	-6.8249	61.9743	-87.51	-77.6772	705.3594	SLD 3	11.381	Si
5.46	0.005894	2.4	0	3,6,7	-5.5062	50.1584	-85.73	-82.2719	749.4539	SLD 3	14.942	Si
5.75	0.005894	2.4	0	3,6,7	-4.1643	38.1356	-83.91	-89.8682	822.9826	SLD 3	21.58	Si
6.03	0.005894	2.4	0	3,6,7	-2.8688	26.5286	-82.16	-101.0847	934.769	SLD 3	35.236	Si
6.32	0.005744	2.4	0	3,6,7	-1.5501	14.7185	-80.38	-101.0279	959.3055	SLD 3	65.177	Si
6.6	0.004982	2.4	0	3,6,7	-0.2406	3.2333	-78.63	-30.7083	412.6856	SLD 4	127.635	Si

1.1.6.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	4.65	1961	1.347	0.368	1.298	SLV 16	Si
-0.01	4.356	1961	1.347	0.368	1.298	SLV 16	Si
0.28	4.069	1961	1.347	0.368	1.298	SLV 16	Si
0.56	3.789	1961	1.347	0.368	1.298	SLV 16	Si
0.85	3.531	1961	1.347	0.368	1.298	SLV 16	Si
1.14	3.297	1961	1.347	0.368	1.298	SLV 16	Si
1.43	3.08	1961	1.347	0.368	1.298	SLV 16	Si
1.71	2.893	1961	1.347	0.368	1.298	SLV 16	Si
2	2.717	1961	1.347	0.368	1.298	SLV 1	Si
2.29	2.553	1961	1.347	0.368	1.298	SLV 1	Si
2.58	2.4	1961	1.347	0.368	1.298	SLV 1	Si
2.86	2.263	1961	1.347	0.368	1.298	SLV 1	Si
3.15	2.143	1961	1.347	0.368	1.298	SLV 1	Si
3.75	2.061	1961	1.347	0.368	1.298	SLV 3	Si
4.04	2.283	1961	1.347	0.368	1.298	SLV 3	Si
4.32	2.564	1961	1.347	0.368	1.298	SLV 3	Si
4.61	2.922	1961	1.347	0.368	1.298	SLV 3	Si
4.89	3.391	1961	1.347	0.368	1.298	SLV 3	Si
5.18	4.042	1961	1.347	0.368	1.298	SLV 3	Si
5.46	4.999	1961	1.347	0.368	1.298	SLV 3	Si
5.75	6.578	1961	1.347	0.368	1.298	SLV 3	Si
6.03	9.452	1961	1.347	0.368	1.298	SLV 3	Si
6.32	16.591	1961	1.347	0.368	1.298	SLV 13	Si
6.6	63.262	1961	1.347	0.368	1.298	SLV 13	Si

1.1.6.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	10.844	1961	3.374	0.368	3.05	SLD 16	Si
-0.01	10.185	1961	3.374	0.368	3.05	SLD 16	Si
0.28	9.496	1961	3.374	0.368	3.05	SLD 16	Si
0.56	8.852	1961	3.374	0.368	3.05	SLD 16	Si
0.85	8.236	1961	3.374	0.368	3.05	SLD 16	Si
1.14	7.699	1961	3.374	0.368	3.05	SLD 16	Si
1.43	7.207	1961	3.374	0.368	3.05	SLD 16	Si
1.71	6.756	1961	3.374	0.368	3.05	SLD 16	Si
2	6.346	1961	3.374	0.368	3.05	SLD 1	Si
2.29	5.963	1961	3.374	0.368	3.05	SLD 1	Si
2.58	5.607	1961	3.374	0.368	3.05	SLD 1	Si
2.86	5.279	1961	3.374	0.368	3.05	SLD 1	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
3.15	4.999	1961	3.374	0.368	3.05	SLD 1	Si
3.75	4.814	1961	3.374	0.368	3.05	SLD 3	Si
4.04	5.334	1961	3.374	0.368	3.05	SLD 3	Si
4.32	5.99	1961	3.374	0.368	3.05	SLD 3	Si
4.61	6.824	1961	3.374	0.368	3.05	SLD 3	Si
4.89	7.918	1961	3.374	0.368	3.05	SLD 3	Si
5.18	9.438	1961	3.374	0.368	3.05	SLD 3	Si
5.46	11.664	1961	3.374	0.368	3.05	SLD 3	Si
5.75	15.355	1961	3.374	0.368	3.05	SLD 3	Si
6.03	22.07	1961	3.374	0.368	3.05	SLD 3	Si
6.32	38.714	1961	3.374	0.368	3.05	SLD 13	Si
6.6	147.675	1961	3.374	0.368	3.05	SLD 13	Si

1.1.6.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	9.25	-290.57	SLU 18	158.34	391.99	1002.89	2.5	42.37	3.63	-251.09	SLU 15	152.93	391.99	997.29	2.5	107.96	Si
-0.01	2X/2Y ø8/10	9.25	-288.27	SLU 18	158.02	391.99	1002.57	2.5	42.37	3.63	-248.79	SLU 15	152.61	391.99	996.97	2.5	107.96	Si
0.28	2X/2Y ø8/10	9.25	-285.94	SLU 18	157.7	391.99	1002.24	2.5	42.37	3.63	-246.46	SLU 15	152.29	391.99	996.64	2.5	107.96	Si
0.56	2X/2Y ø8/14.9	9.25	-283.6	SLU 18	157.38	263.77	1001.9	2.5	28.51	3.63	-244.12	SLU 15	151.97	263.77	996.3	2.5	72.65	Si
0.85	2X/2Y ø8/14.9	9.25	-281.26	SLU 18	157.06	263.77	1001.57	2.5	28.51	3.63	-241.78	SLU 15	151.65	263.77	995.97	2.5	72.65	Si
1.14	2X/2Y ø8/14.9	9.25	-278.93	SLU 18	156.74	263.77	1001.24	2.5	28.51	3.63	-239.45	SLU 15	151.33	263.77	995.64	2.5	72.65	Si
1.43	2X/2Y ø8/14.9	9.25	-276.59	SLU 18	156.42	263.77	1000.91	2.5	28.51	3.63	-237.11	SLU 15	151.01	263.77	995.31	2.5	72.65	Si
1.71	2X/2Y ø8/14.9	9.25	-274.26	SLU 18	156.1	263.77	1000.58	2.5	28.51	3.63	-234.78	SLU 15	150.69	263.77	994.98	2.5	72.65	Si
2	2X/2Y ø8/14.9	9.25	-271.92	SLU 18	155.78	263.77	1000.25	2.5	28.51	3.63	-232.44	SLU 15	150.37	263.77	994.65	2.5	72.65	Si
2.29	2X/2Y ø8/14.9	9.25	-269.58	SLU 18	155.46	263.77	999.92	2.5	28.51	3.63	-230.1	SLU 15	150.05	263.77	994.32	2.5	72.65	Si
2.58	2X/2Y ø8/14.9	9.25	-267.25	SLU 18	155.14	263.77	999.58	2.5	28.51	3.63	-227.77	SLU 15	149.73	263.77	993.99	2.5	72.65	Si
2.86	2X/2Y ø8/14.9	9.25	-264.91	SLU 18	154.82	263.77	999.25	2.5	28.51	3.63	-225.43	SLU 15	149.41	263.77	993.65	2.5	72.65	Si
3.15	2X/2Y ø8/14.9	9.25	-262.62	SLU 18	154.51	263.77	998.93	2.5	28.51	3.63	-223.14	SLU 15	149.09	263.77	993.33	2.5	72.65	Si
3.75	2X/2Y ø8/14.9	-5.14	-143.26	SLU 18	138.14	263.77	982	2.5	51.27	-1.76	-104.48	SLU 14	132.83	263.77	976.5	2.5	149.53	Si
4.04	2X/2Y ø8/14.9	-5.14	-140.95	SLU 18	137.82	263.77	981.67	2.5	51.27	-1.76	-102.17	SLU 14	132.51	263.77	976.17	2.5	149.53	Si
4.32	2X/2Y ø8/14.9	-5.14	-138.63	SLU 18	137.51	263.77	981.34	2.5	51.27	-1.76	-99.85	SLU 14	132.19	263.77	975.84	2.5	149.53	Si
4.61	2X/2Y ø8/14.9	-5.14	-136.31	SLU 18	137.19	263.77	981.01	2.5	51.27	-1.76	-97.54	SLU 14	131.87	263.77	975.52	2.5	149.53	Si
4.89	2X/2Y ø8/14.9	-5.14	-134	SLU 18	136.87	263.77	980.69	2.5	51.27	-1.76	-95.22	SLU 14	131.56	263.77	975.19	2.5	149.53	Si
5.18	2X/2Y ø8/14.9	-5.14	-131.68	SLU 18	136.55	263.77	980.36	2.5	51.27	-1.76	-92.91	SLU 14	131.24	263.77	974.86	2.5	149.53	Si
5.46	2X/2Y ø8/14.9	-5.14	-129.37	SLU 18	136.24	263.77	980.03	2.5	51.27	-1.76	-90.59	SLU 14	130.92	263.77	974.53	2.5	149.53	Si
5.75	2X/2Y ø8/9.7	-5.14	-127.01	SLU 18	135.91	404.63	979.7	2.5	78.65	-1.76	-88.23	SLU 14	130.6	404.63	974.2	2.5	229.39	Si
6.03	2X/2Y ø8/9.7	-5.14	-124.74	SLU 18	135.6	404.63	979.37	2.5	78.65	-1.76	-85.96	SLU 14	130.29	404.63	973.87	2.5	229.39	Si
6.32	2X/2Y ø8/9.7	-5.14	-122.42	SLU 18	135.29	404.63	979.04	2.5	78.65	-1.76	-83.64	SLU 14	129.97	404.63	973.54	2.5	229.39	Si
6.6	2X/2Y ø8/9.7	-5.14	-120.15	SLU 18	134.97	404.63	978.72	2.5	78.65	-1.76	-81.37	SLU 14	129.66	404.63	973.22	2.5	229.39	Si

1.1.6.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	56.55	-201.04	SLV 4	146.06	391.99	990.19	2.5	6.93	18.62	-199.97	SLV 10	145.92	391.99	990.04	2.5	21.05	Si
-0.01	2X/2Y ø8/10	56.55	-199.27	SLV 4	145.82	391.99	989.94	2.5	6.93	18.62	-198.2	SLV 10	145.67	391.99	989.79	2.5	21.05	Si
0.28	2X/2Y ø8/10	56.55	-197.47	SLV 4	145.57	391.99	989.69	2.5	6.93	18.62	-196.41	SLV 10	145.43	391.99	989.54	2.5	21.05	Si
0.56	2X/2Y ø8/14.9	56.55	-195.68	SLV 4	145.33	263.77	989.43	2.5	4.66	18.62	-194.61	SLV 10	145.18	263.77	989.28	2.5	14.17	Si
0.85	2X/2Y ø8/14.9	56.55	-193.88	SLV 4	145.08	263.77	989.18	2.5	4.66	18.62	-192.81	SLV 10	144.94	263.77	989.03	2.5	14.17	Si
1.14	2X/2Y ø8/14.9	56.55	-192.08	SLV 4	144.84	263.77	988.92	2.5	4.66	18.62	-191.02	SLV 10	144.69	263.77	988.77	2.5	14.17	Si
1.43	2X/2Y ø8/14.9	56.55	-190.29	SLV 4	144.59	263.77	988.67	2.5	4.66	18.62	-189.22	SLV 10	144.44	263.77	988.52	2.5	14.17	Si
1.71	2X/2Y ø8/14.9	56.55	-188.49	SLV 4	144.34	263.77	988.41	2.5	4.66	18.62	-187.42	SLV 10	144.2	263.77	988.26	2.5	14.17	Si
2	2X/2Y ø8/14.9	56.55	-186.69	SLV 4	144.1	263.77	988.16	2.5	4.66	18.62	-185.63	SLV 10	143.95	263.77	988.01	2.5	14.17	Si
2.29	2X/2Y ø8/14.9	56.55	-184.9	SLV 4	143.85	263.77	987.9	2.5	4.66	18.62	-183.83	SLV 10	143.7	263.77	987.75	2.5	14.17	Si
2.58	2X/2Y ø8/14.9	56.55	-183.1	SLV 4	143.6	263.77	987.65	2.5	4.66	18.62	-182.03	SLV 10	143.46	263.77	987.5	2.5	14.17	Si
2.86	2X/2Y ø8/14.9	56.55	-181.3	SLV 4	143.36	263.77	987.4	2.5	4.66	18.62	-180.24	SLV 10	143.21	263.77	987.24	2.5	14.17	Si
3.15	2X/2Y ø8/14.9	56.55	-179.54	SLV 4	143.12	263.77	987.14	2.5	4.66	18.62	-178.47	SLV 10	142.97	263.77	986.99	2.5	14.17	Si
3.75	2X/2Y ø8/14.9	-92.48	-96.7	SLV 4	131.76	263.77	975.4	2.5	2.85	-26.39	-96.11	SLV 10	131.68	263.77	975.31	2.5	10	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
4.04	2X/2Y ø8/14.9	-92.48	-94.91	SLV 4	131.51	263.77	975.14	2.5	2.85	-26.39	-94.33	SLV 10	131.43	263.77	975.06	2.5	10	Si
4.32	2X/2Y ø8/14.9	-92.48	-93.13	SLV 4	131.27	263.77	974.89	2.5	2.85	-26.39	-92.55	SLV 10	131.19	263.77	974.81	2.5	10	Si
4.61	2X/2Y ø8/14.9	-92.48	-91.35	SLV 4	131.03	263.77	974.64	2.5	2.85	-26.39	-90.77	SLV 10	130.95	263.77	974.56	2.5	10	Si
4.89	2X/2Y ø8/14.9	-92.48	-89.57	SLV 4	130.78	263.77	974.39	2.5	2.85	-26.39	-88.99	SLV 10	130.7	263.77	974.3	2.5	10	Si
5.18	2X/2Y ø8/14.9	-92.48	-87.79	SLV 4	130.54	263.77	974.13	2.5	2.85	-26.39	-87.21	SLV 10	130.46	263.77	974.05	2.5	10	Si
5.46	2X/2Y ø8/14.9	-92.48	-86.01	SLV 4	130.29	263.77	973.88	2.5	2.85	-26.39	-85.43	SLV 10	130.21	263.77	973.8	2.5	10	Si
5.75	2X/2Y ø8/9.7	-92.48	-84.2	SLV 4	130.04	404.63	973.62	2.5	4.38	-26.39	-83.61	SLV 10	129.96	404.63	973.54	2.5	15.33	Si
6.03	2X/2Y ø8/9.7	-92.48	-82.45	SLV 4	129.8	404.63	973.37	2.5	4.38	-26.39	-81.86	SLV 10	129.72	404.63	973.29	2.5	15.33	Si
6.32	2X/2Y ø8/9.7	-92.48	-80.66	SLV 4	129.56	404.63	973.12	2.5	4.38	-26.39	-80.08	SLV 10	129.48	404.63	973.04	2.5	15.33	Si
6.6	2X/2Y ø8/9.7	-92.48	-78.91	SLV 4	129.32	404.63	972.87	2.5	4.38	-26.39	-78.33	SLV 10	129.24	404.63	972.79	2.5	15.33	Si

1.1.6.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	3.45	X	2.263	0.138	0.5	0.0236	0.000933	0.017902	0	146.063	1435.781	391.986	156.794	258.071	391.986	56.555	-201.036	SLV 4	Si
-0.3	-0.975	3.45	Y	2.263	0.138	0.5	0.0236	0.000317	0.017902	0	145.917	1435.562	391.986	156.794	257.999	391.986	18.618	-199.97	SLV 10	Si

1.1.6.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	27.49	-200.52	SLD 4	145.99	391.99	990.12	2.5	14.26	9.08	-200.06	SLD 10	145.93	391.99	990.06	2.5	43.18	Si
-0.01	2X/2Y ø8/10	27.49	-198.75	SLD 4	145.75	391.99	989.87	2.5	14.26	9.08	-198.3	SLD 10	145.69	391.99	989.81	2.5	43.18	Si
0.28	2X/2Y ø8/10	27.49	-196.96	SLD 4	145.5	391.99	989.62	2.5	14.26	9.08	-196.5	SLD 10	145.44	391.99	989.55	2.5	43.18	Si
0.56	2X/2Y ø8/14.9	27.49	-195.16	SLD 4	145.26	263.77	989.36	2.5	9.59	9.08	-194.71	SLD 10	145.2	263.77	989.3	2.5	29.06	Si
0.85	2X/2Y ø8/14.9	27.49	-193.36	SLD 4	145.01	263.77	989.11	2.5	9.59	9.08	-192.91	SLD 10	144.95	263.77	989.04	2.5	29.06	Si
1.14	2X/2Y ø8/14.9	27.49	-191.57	SLD 4	144.76	263.77	988.85	2.5	9.59	9.08	-191.11	SLD 10	144.7	263.77	988.79	2.5	29.06	Si
1.43	2X/2Y ø8/14.9	27.49	-189.77	SLD 4	144.52	263.77	988.6	2.5	9.59	9.08	-189.31	SLD 10	144.46	263.77	988.53	2.5	29.06	Si
1.71	2X/2Y ø8/14.9	27.49	-187.97	SLD 4	144.27	263.77	988.34	2.5	9.59	9.08	-187.52	SLD 10	144.21	263.77	988.28	2.5	29.06	Si
2	2X/2Y ø8/14.9	27.49	-186.18	SLD 4	144.03	263.77	988.09	2.5	9.59	9.08	-185.72	SLD 10	143.96	263.77	988.02	2.5	29.06	Si
2.29	2X/2Y ø8/14.9	27.49	-184.38	SLD 4	143.78	263.77	987.83	2.5	9.59	9.08	-183.92	SLD 10	143.72	263.77	987.77	2.5	29.06	Si
2.58	2X/2Y ø8/14.9	27.49	-182.58	SLD 4	143.53	263.77	987.58	2.5	9.59	9.08	-182.13	SLD 10	143.47	263.77	987.51	2.5	29.06	Si
2.86	2X/2Y ø8/14.9	27.49	-180.79	SLD 4	143.29	263.77	987.32	2.5	9.59	9.08	-180.33	SLD 10	143.22	263.77	987.26	2.5	29.06	Si
3.15	2X/2Y ø8/14.9	27.49	-179.02	SLD 4	143.04	263.77	987.07	2.5	9.59	9.08	-178.56	SLD 10	142.98	263.77	987.01	2.5	29.06	Si
3.75	2X/2Y ø8/14.9	-41.47	-96.41	SLD 4	131.72	263.77	975.36	2.5	6.36	-11.82	-96.16	SLD 10	131.68	263.77	975.32	2.5	22.32	Si
4.04	2X/2Y ø8/14.9	-41.47	-94.63	SLD 4	131.47	263.77	975.1	2.5	6.36	-11.82	-94.38	SLD 10	131.44	263.77	975.07	2.5	22.32	Si
4.32	2X/2Y ø8/14.9	-41.47	-92.85	SLD 4	131.23	263.77	974.85	2.5	6.36	-11.82	-92.6	SLD 10	131.2	263.77	974.81	2.5	22.32	Si
4.61	2X/2Y ø8/14.9	-41.47	-91.06	SLD 4	130.99	263.77	974.6	2.5	6.36	-11.82	-90.82	SLD 10	130.95	263.77	974.56	2.5	22.32	Si
4.89	2X/2Y ø8/14.9	-41.47	-89.28	SLD 4	130.74	263.77	974.34	2.5	6.36	-11.82	-89.03	SLD 10	130.71	263.77	974.31	2.5	22.32	Si
5.18	2X/2Y ø8/14.9	-41.47	-87.5	SLD 4	130.5	263.77	974.09	2.5	6.36	-11.82	-87.25	SLD 10	130.46	263.77	974.06	2.5	22.32	Si
5.46	2X/2Y ø8/14.9	-41.47	-85.72	SLD 4	130.25	263.77	973.84	2.5	6.36	-11.82	-85.47	SLD 10	130.22	263.77	973.8	2.5	22.32	Si
5.75	2X/2Y ø8/9.7	-41.47	-83.91	SLD 4	130	404.63	973.58	2.5	9.76	-11.82	-83.66	SLD 10	129.97	404.63	973.55	2.5	34.24	Si
6.03	2X/2Y ø8/9.7	-41.47	-82.16	SLD 4	129.77	404.63	973.33	2.5	9.76	-11.82	-81.91	SLD 10	129.73	404.63	973.3	2.5	34.24	Si
6.32	2X/2Y ø8/9.7	-41.47	-80.38	SLD 4	129.52	404.63	973.08	2.5	9.76	-11.82	-80.13	SLD 10	129.49	404.63	973.05	2.5	34.24	Si
6.6	2X/2Y ø8/9.7	-41.47	-78.63	SLD 4	129.28	404.63	972.83	2.5	9.76	-11.82	-78.38	SLD 10	129.25	404.63	972.8	2.5	34.24	Si

1.1.6.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.01	7.59	1961	1.347	0.368	1.298	SLV 4	Si
0.28	7.59	1961	1.347	0.368	1.298	SLV 4	Si
0.56	5.074	1961	1.347	0.368	1.298	SLV 4	Si
0.85	5.074	1961	1.347	0.368	1.298	SLV 4	Si
1.14	5.074	1961	1.347	0.368	1.298	SLV 4	Si
1.43	5.074	1961	1.347	0.368	1.298	SLV 4	Si
1.71	5.074	1961	1.347	0.368	1.298	SLV 4	Si
2	5.074	1961	1.347	0.368	1.298	SLV 4	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
2.29	5.074	1961	1.347	0.368	1.298	SLV 4	Si
2.58	5.074	1961	1.347	0.368	1.298	SLV 4	Si
2.86	5.074	1961	1.347	0.368	1.298	SLV 4	Si
3.15	5.074	1961	1.347	0.368	1.298	SLV 4	Si
3.75	2.922	1961	1.347	0.368	1.298	SLV 3	Si
4.04	2.922	1961	1.347	0.368	1.298	SLV 3	Si
4.32	2.922	1961	1.347	0.368	1.298	SLV 3	Si
4.61	2.922	1961	1.347	0.368	1.298	SLV 3	Si
4.89	2.922	1961	1.347	0.368	1.298	SLV 3	Si
5.18	2.922	1961	1.347	0.368	1.298	SLV 3	Si
5.46	2.922	1961	1.347	0.368	1.298	SLV 3	Si
5.75	4.5	1961	1.347	0.368	1.298	SLV 3	Si
6.03	4.5	1961	1.347	0.368	1.298	SLV 3	Si
6.32	4.5	1961	1.347	0.368	1.298	SLV 3	Si
6.6	4.5	1961	1.347	0.368	1.298	SLV 3	Si

1.1.6.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	17.711	1961	3.374	0.368	3.05	SLD 4	Si
-0.01	17.711	1961	3.374	0.368	3.05	SLD 4	Si
0.28	17.711	1961	3.374	0.368	3.05	SLD 4	Si
0.56	11.84	1961	3.374	0.368	3.05	SLD 4	Si
0.85	11.84	1961	3.374	0.368	3.05	SLD 4	Si
1.14	11.84	1961	3.374	0.368	3.05	SLD 4	Si
1.43	11.84	1961	3.374	0.368	3.05	SLD 4	Si
1.71	11.84	1961	3.374	0.368	3.05	SLD 4	Si
2	11.84	1961	3.374	0.368	3.05	SLD 4	Si
2.29	11.84	1961	3.374	0.368	3.05	SLD 4	Si
2.58	11.84	1961	3.374	0.368	3.05	SLD 4	Si
2.86	11.84	1961	3.374	0.368	3.05	SLD 4	Si
3.15	11.84	1961	3.374	0.368	3.05	SLD 4	Si
3.75	6.811	1961	3.374	0.368	3.05	SLD 4	Si
4.04	6.811	1961	3.374	0.368	3.05	SLD 4	Si
4.32	6.811	1961	3.374	0.368	3.05	SLD 4	Si
4.61	6.811	1961	3.374	0.368	3.05	SLD 4	Si
4.89	6.811	1961	3.374	0.368	3.05	SLD 4	Si
5.18	6.811	1961	3.374	0.368	3.05	SLD 4	Si
5.46	6.811	1961	3.374	0.368	3.05	SLD 4	Si
5.75	10.507	1961	3.374	0.368	3.05	SLD 3	Si
6.03	10.507	1961	3.374	0.368	3.05	SLD 3	Si
6.32	10.507	1961	3.374	0.368	3.05	SLD 3	Si
6.6	10.507	1961	3.374	0.368	3.05	SLD 3	Si

1.1.6.4 Verifiche nodi trave colonna

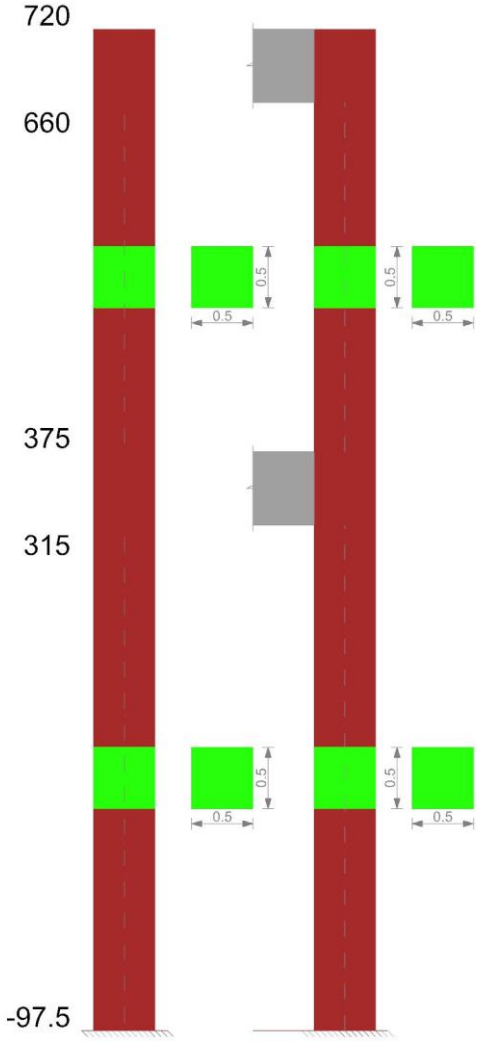
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.6.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.7 P10

Geometria



1.1.7.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.7.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.98	3.15	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2
3.75	6.6	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2

1.1.7.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2031	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2031	-0.1631	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2031	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2031	-0.1631	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	0.2031	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2031	0.1631	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2031	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2031	0.1631	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.2031	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2031	-0.1631	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2031	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2031	-0.1631	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2031	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2031	0.1631	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2031	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2031	0.1631	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.3	-0.2031	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2031	-0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	-0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2031	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2031	0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.4	-0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.5	-0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.5	0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.6	-0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.6	0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.4	0	-0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.4	0	0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.5	0	-0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.5	0	0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.6	0	-0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.6	0	0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2

1.1.7.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.7.3 Verifiche delle sezioni

1.1.7.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.98	0.007628	6.1	0	1,2,4,5	-9.8769	88.7026	-118.23	-82.6032	741.845	SLU 18	8.363	Si
-0.93	0.007942	6.1	0	1,2,4,5	-9.7345	87.4893	-117.79	-85.6191	769.5044	SLU 18	8.795	Si
-0.63	0.009771	6.1	0	1,2,4,5	-8.994	81.1788	-115.46	-102.2809	923.1724	SLU 18	11.372	Si
-0.34	0.0116	6.1	0	1,2,4,5	-8.2406	74.758	-113.1	-117.5883	1066.7496	SLU 18	14.269	Si
-0.05	0.011675	6.1	0	1,2,4,5	-7.4872	68.3371	-110.73	-118.8279	1084.5692	SLU 18	15.871	Si
0.24	0.011218	6.1	0	1,2,4,5	-6.7337	61.9163	-108.37	-116.4744	1070.9733	SLU 18	17.297	Si
0.53	0.010086	5.6	0	1,2,5	-5.9803	55.4955	-106	-108.4284	1006.1812	SLU 18	18.131	Si
0.82	0.008714	5.6	0	1,2,5	-5.2269	49.0747	-103.64	-97.3041	913.5769	SLU 18	18.616	Si
1.11	0.007628	3.1	0	2,5	-4.4735	42.6538	-101.27	-88.6297	845.0719	SLU 18	19.812	Si
1.4	0.007628	3.1	0	2,5	-3.72	36.233	-98.91	-88.9201	866.0789	SLU 18	23.903	Si
1.69	0.007628	3.1	0	2,5	-2.9666	29.8122	-96.54	-87.5657	879.9708	SLU 18	29.517	Si
1.99	0.007628	3.1	0	2,5	-2.2132	23.3913	-94.18	-81.7663	864.1989	SLU 18	36.945	Si
2.28	0.007628	3.1	0	2,5	-1.4597	16.9705	-91.81	-68.6417	798.0053	SLU 18	47.023	Si
2.57	0.007628	3.1	0	2,5	-0.7063	10.5497	-89.45	-44.473	664.2575	SLU 18	62.965	Si
2.86	0.007628	3.1	0	2,5	-0.0075	3.9885	-87.96	-0.6657	351.9178	SLU 20	88.234	Si
3.15	0.007628	3.1	0	2,5	0.7629	-2.0976	-85.64	74.0925	-203.7212	SLU 20	97.121	Si
3.75	0.007628	6.1	0	2,3,5,6	1.7175	-10.5348	-45.71	135.1577	-829.0408	SLU 18	78.695	Si
4.04	0.007628	6.1	0	2,3,5,6	1.5487	-9.4702	-43.39	133.9477	-819.0818	SLU 18	86.491	Si
4.32	0.007628	6.1	0	2,3,5,6	1.3799	-8.4055	-41.08	132.4617	-806.8718	SLU 18	95.993	Si
4.61	0.007628	5.6	0	2,3,6	1.2111	-7.3409	-38.76	130.1739	-789.0109	SLU 18	107.482	Si
4.89	0.007628	5.6	0	2,3,6	1.0423	-6.2762	-36.45	127.1442	-765.5726	SLU 18	121.98	Si
5.18	0.007628	3.1	0	3,6	0.8735	-5.2115	-34.13	122.8989	-733.2092	SLU 18	140.69	Si
5.46	0.007628	3.1	0	3,6	0.7048	-4.1469	-31.81	116.7375	-686.8962	SLU 18	165.642	Si
5.75	0.007628	3.1	0	3,6	0.533	-3.0635	-29.46	107.0108	-615.0571	SLU 18	200.766	Si
6.03	0.007628	3.1	0	3,6	0.3672	-2.0176	-27.18	91.4797	-502.6514	SLU 18	249.137	Si
6.32	0.008475	5.6	0	3,6	0.1984	-0.9529	-24.87	65.7797	-315.94	SLU 18	331.553	Si
6.6	0.009504	5.6	0	3,6	0.0326	0.0931	-22.59	13.0173	37.1937	SLU 18	399.634	Si

1.1.7.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.98	0.007628	6.1	0	1,2,4,5	15.4576	214.5066	-86.98	52.8236	733.0385	SLV 1	3.417				Si
-0.93	0.007942	6.1	0	1,2,4,5	15.3121	213.0883	-86.63	54.7173	761.4649	SLV 1	3.573				Si
-0.63	0.009771	6.1	0	1,2,4,5	14.94	205.79	-84.85	67.2929	926.9218	SLV 1	4.504				Si
-0.34	0.0116	6.1	0	1,2,4,5	15.3604	198.584	-83.03	84.3207	1090.1218	SLV 1	5.489				Si
-0.05	0.011675	6.1	0	1,2,4,5	16.4871	191.6804	-81.21	94.3885	1097.3704	SLV 1	5.725				Si
0.24	0.011218	6.1	0	1,2,4,5	18.3712	185.1874	-79.39	104.91	1057.5233	SLV 1	5.711				Si
0.53	0.010086	5.6	0	1,2,5	21.1174	179.1877	-77.57	112.6073	955.5062	SLV 1	5.332				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
0.82	0.008714	5.6	0	1,2,5	24.7068	173.6684	-75.75	118.2078	830.9018	SLV 1	4.784				Si
1.11	0.007628	3.1	0	2,5	28.954	168.5394	-73.93	125.8161	732.3685	SLV 1	4.345				Si
1.4	0.007628	3.1	0	2,5	33.636	163.7072	-72.11	150.067	730.3809	SLV 1	4.462				Si
1.69	0.007628	3.1	0	2,5	38.588	159.1094	-70.29	176.183	726.4534	SLV 1	4.566				Si
1.99	0.007628	3.1	0	2,5	43.7091	154.7103	-68.47	203.4595	720.1545	SLV 1	4.655				Si
2.28	0.007628	3.1	0	2,5	48.9399	150.4906	-66.65	231.9103	713.1267	SLV 1	4.739				Si
2.57	0.007628	3.1	0	2,5	54.2451	146.4402	-64.84	261.0795	704.8112	SLV 1	4.813				Si
2.86	0.007628	3.1	0	2,5	59.6026	142.5532	-63.02	290.5521	694.9214	SLV 1	4.875				Si
3.15	0.007628	3.1	0	2,5	-144.1908	-77.9189	-61.23	-665.2009	-359.4662	SLV 11	4.613				Si
3.75	0.007628	6.1	0	2,3,5,6	148.9299	-85.5114	-33.79	640.5032	-367.7594	SLV 10	4.301				Si
4.04	0.007628	6.1	0	2,3,5,6	134.2937	-76.886	-32.01	641.8206	-367.4562	SLV 10	4.779				Si
4.32	0.007628	6.1	0	2,3,5,6	119.6574	-68.2607	-30.23	643.467	-367.0769	SLV 10	5.378				Si
4.61	0.007628	5.6	0	2,3,6	105.0212	-59.6354	-28.45	645.5831	-366.5886	SLV 10	6.147				Si
4.89	0.007628	5.6	0	2,3,6	90.385	-51.0102	-26.67	648.4079	-365.9391	SLV 10	7.174				Si
5.18	0.007628	3.1	0	3,6	75.7488	-42.3852	-24.89	652.3731	-365.035	SLV 10	8.612				Si
5.46	0.007628	3.1	0	3,6	61.1126	-33.7605	-23.1	658.3318	-363.6833	SLV 10	10.772				Si
5.75	0.007628	3.1	0	3,6	46.2196	-24.9852	-21.29	668.4659	-361.3571	SLV 10	14.463				Si
6.03	0.007628	3.1	0	3,6	31.8402	-16.5143	-19.54	688.0772	-356.8805	SLV 10	21.61				Si
6.32	0.008475	5.6	0	3,6	17.1827	-7.9499	-17.76	807.5277	-373.6162	SLV 9	46.996				Si
6.6	0.009504	5.6	0	3,6	-2.5033	1.6945	-16.01	-865.6267	585.9517	SLV 12	345.799				Si

1.1.7.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.98	0.007628	6.1	0	1,2,4,5	3.1785	124.5123	-86.98	19.9216	780.3873	SLD 1	6.268	Si
-0.93	0.007942	6.1	0	1,2,4,5	3.1589	123.4562	-86.64	20.7514	810.9942	SLD 1	6.569	Si
-0.63	0.009771	6.1	0	1,2,4,5	3.2239	117.9973	-84.85	26.9569	986.6293	SLD 1	8.361	Si
-0.34	0.0116	6.1	0	1,2,4,5	3.6385	112.5382	-83.03	37.5783	1162.3009	SLD 1	10.328	Si
-0.05	0.011675	6.1	0	1,2,4,5	4.3626	107.2106	-81.21	47.7241	1172.8084	SLD 1	10.939	Si
0.24	0.011218	6.1	0	1,2,4,5	5.4201	102.0626	-79.39	60.1642	1132.9206	SLD 1	11.1	Si
0.53	0.010086	5.6	0	1,2,5	6.8581	97.1317	-77.57	72.6364	1028.7608	SLD 1	10.591	Si
0.82	0.008714	5.6	0	1,2,5	8.6678	92.4124	-75.75	84.5206	901.1196	SLD 1	9.751	Si
1.11	0.007628	3.1	0	2,5	10.7657	87.8644	-73.93	97.6739	797.1678	SLD 1	9.073	Si
1.4	0.007628	3.1	0	2,5	13.0523	83.4459	-72.11	124.5831	796.4826	SLD 1	9.545	Si
1.69	0.007628	3.1	0	2,5	15.4554	79.1295	-70.3	155.2521	794.8716	SLD 1	10.045	Si
1.99	0.007628	3.1	0	2,5	17.9309	74.8997	-68.48	189.1114	789.9421	SLD 1	10.547	Si
2.28	0.007628	3.1	0	2,5	20.4535	70.7481	-66.66	226.2266	782.5132	SLD 1	11.061	Si
2.57	0.007628	3.1	0	2,5	23.0078	66.6702	-64.84	266.0268	770.873	SLD 1	11.562	Si
2.86	0.007628	3.1	0	2,5	25.5845	62.6638	-63.02	309.4963	758.0462	SLD 1	12.097	Si
3.15	0.007628	3.1	0	2,5	-61.6725	-34.3798	-61.23	-709.117	-395.3029	SLD 11	11.498	Si
3.75	0.007628	6.1	0	2,3,5,6	64.4019	-40.767	-33.79	652.3288	-412.9303	SLD 10	10.129	Si
4.04	0.007628	6.1	0	2,3,5,6	58.0727	-36.6548	-32.01	654.5846	-413.1652	SLD 10	11.272	Si
4.32	0.007628	6.1	0	2,3,5,6	51.7436	-32.5425	-30.23	657.428	-413.4689	SLD 10	12.705	Si
4.61	0.007628	5.6	0	2,3,6	45.4144	-28.4303	-28.45	661.0466	-413.8281	SLD 10	14.556	Si
4.89	0.007628	5.6	0	2,3,6	39.0853	-24.3182	-26.67	666.0546	-414.4074	SLD 10	17.041	Si
5.18	0.007628	3.1	0	3,6	32.7561	-20.2061	-24.89	672.9721	-415.1328	SLD 10	20.545	Si
5.46	0.007628	3.1	0	3,6	26.427	-16.0942	-23.1	683.2508	-416.1035	SLD 10	25.854	Si
5.75	0.007628	3.1	0	3,6	19.9868	-11.9104	-21.29	701.233	-417.8745	SLD 10	35.085	Si
6.03	0.007628	3.1	0	3,6	13.7523	-7.8947	-19.54	736.2959	-422.6807	SLD 9	53.54	Si
6.32	0.008475	5.6	0	3,6	7.4307	-3.7851	-17.76	874.5137	-445.4636	SLD 9	117.69	Si
6.6	0.009504	5.6	0	3,6	-1.0629	0.7635	-16.01	-624.471	448.554	SLD 12	587.522	Si

1.1.7.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.98	4.042	1961	1.347	0.368	1.298	SLV 1	Si
-0.93	4.227	1961	1.347	0.368	1.298	SLV 1	Si
-0.63	5.334	1961	1.347	0.368	1.298	SLV 1	Si
-0.34	6.469	1961	1.347	0.368	1.298	SLV 1	Si
-0.05	6.646	1961	1.347	0.368	1.298	SLV 1	Si
0.24	6.523	1961	1.347	0.368	1.298	SLV 1	Si
0.53	5.977	1961	1.347	0.368	1.298	SLV 1	Si
0.82	5.252	1961	1.347	0.368	1.298	SLV 1	Si
1.11	4.664	1961	1.347	0.368	1.298	SLV 1	Si
1.4	4.698	1961	1.347	0.368	1.298	SLV 1	Si
1.69	4.719	1961	1.347	0.368	1.298	SLV 1	Si
1.99	4.726	1961	1.347	0.368	1.298	SLV 1	Si
2.28	4.726	1961	1.347	0.368	1.298	SLV 1	Si
2.57	4.705	1961	1.347	0.368	1.298	SLV 1	Si
2.86	4.685	1961	1.347	0.368	1.298	SLV 1	Si
3.15	4.418	1961	1.347	0.368	1.298	SLV 6	Si
3.75	4.268	1961	1.347	0.368	1.298	SLV 9	Si
4.04	4.732	1961	1.347	0.368	1.298	SLV 10	Si
4.32	5.32	1961	1.347	0.368	1.298	SLV 9	Si
4.61	6.065	1961	1.347	0.368	1.298	SLV 10	Si
4.89	7.057	1961	1.347	0.368	1.298	SLV 9	Si
5.18	8.427	1961	1.347	0.368	1.298	SLV 10	Si
5.46	10.463	1961	1.347	0.368	1.298	SLV 10	Si
5.75	13.891	1961	1.347	0.368	1.298	SLV 9	Si
6.03	20.254	1961	1.347	0.368	1.298	SLV 10	Si
6.32	41.667	1961	1.347	0.368	1.298	SLV 7	Si
6.6	273.467	1961	1.347	0.368	1.298	SLV 1	Si

1.1.7.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.98	9.438	1961	3.374	0.368	3.05	SLD 1	Si
-0.93	9.877	1961	3.374	0.368	3.05	SLD 1	Si
-0.63	12.455	1961	3.374	0.368	3.05	SLD 1	Si
-0.34	15.092	1961	3.374	0.368	3.05	SLD 1	Si
-0.05	15.531	1961	3.374	0.368	3.05	SLD 1	Si
0.24	15.238	1961	3.374	0.368	3.05	SLD 1	Si
0.53	13.949	1961	3.374	0.368	3.05	SLD 1	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
0.82	12.265	1961	3.374	0.368	3.05	SLD 1	Si
1.11	10.902	1961	3.374	0.368	3.05	SLD 1	Si
1.4	10.976	1961	3.374	0.368	3.05	SLD 1	Si
1.69	11.02	1961	3.374	0.368	3.05	SLD 1	Si
1.99	11.02	1961	3.374	0.368	3.05	SLD 1	Si
2.28	11.02	1961	3.374	0.368	3.05	SLD 1	Si
2.57	10.99	1961	3.374	0.368	3.05	SLD 1	Si
2.86	10.932	1961	3.374	0.368	3.05	SLD 1	Si
3.15	10.287	1961	3.374	0.368	3.05	SLD 11	Si
3.75	9.936	1961	3.374	0.368	3.05	SLD 10	Si
4.04	11.02	1961	3.374	0.368	3.05	SLD 10	Si
4.32	12.396	1961	3.374	0.368	3.05	SLD 9	Si
4.61	14.125	1961	3.374	0.368	3.05	SLD 9	Si
4.89	16.439	1961	3.374	0.368	3.05	SLD 9	Si
5.18	19.648	1961	3.374	0.368	3.05	SLD 9	Si
5.46	24.371	1961	3.374	0.368	3.05	SLD 10	Si
5.75	32.315	1961	3.374	0.368	3.05	SLD 10	Si
6.03	47.204	1961	3.374	0.368	3.05	SLD 10	Si
6.32	96.994	1961	3.374	0.368	3.05	SLD 7	Si
6.6	636.379	1961	3.374	0.368	3.05	SLD 1	Si

1.1.7.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.98	2X/2Y ø8/10	-22.06	-118.23	SLU 18	134.71	391.99	978.45	2.5	17.77	2.69	-119.11	SLU 20	134.83	391.99	978.57	2.5	145.55	Si
-0.93	2X/2Y ø8/10	-22.06	-117.79	SLU 18	134.65	391.99	978.39	2.5	17.77	2.69	-118.66	SLU 20	134.77	391.99	978.51	2.5	145.55	Si
-0.63	2X/2Y ø8/10	-22.06	-115.46	SLU 18	134.33	391.99	978.06	2.5	17.77	2.69	-116.34	SLU 20	134.45	391.99	978.18	2.5	145.55	Si
-0.34	2X/2Y ø8/10	-22.06	-113.1	SLU 18	134.01	391.99	977.72	2.5	17.77	2.69	-113.97	SLU 20	134.13	391.99	977.85	2.5	145.55	Si
-0.05	2X/2Y ø8/10	-22.06	-110.73	SLU 18	133.68	391.99	977.39	2.5	17.77	2.69	-111.61	SLU 20	133.8	391.99	977.51	2.5	145.55	Si
0.24	2X/2Y ø8/10	-22.06	-108.37	SLU 18	133.36	391.99	977.05	2.5	17.77	2.69	-109.24	SLU 20	133.48	391.99	977.18	2.5	145.55	Si
0.53	2X/2Y ø8/14.9	-22.06	-106	SLU 18	133.03	263.77	976.72	2.5	11.96	2.69	-106.88	SLU 20	133.15	263.77	976.84	2.5	97.94	Si
0.82	2X/2Y ø8/14.9	-22.06	-103.64	SLU 18	132.71	263.77	976.38	2.5	11.96	2.69	-104.51	SLU 20	132.83	263.77	976.5	2.5	97.94	Si
1.11	2X/2Y ø8/14.9	-22.06	-101.27	SLU 18	132.39	263.77	976.04	2.5	11.96	2.69	-102.15	SLU 20	132.51	263.77	976.17	2.5	97.94	Si
1.4	2X/2Y ø8/14.9	-22.06	-98.91	SLU 18	132.06	263.77	975.71	2.5	11.96	2.69	-99.78	SLU 20	132.18	263.77	975.83	2.5	97.94	Si
1.69	2X/2Y ø8/14.9	-22.06	-96.54	SLU 18	131.74	263.77	975.37	2.5	11.96	2.69	-97.42	SLU 20	131.86	263.77	975.5	2.5	97.94	Si
1.99	2X/2Y ø8/14.9	-22.06	-94.18	SLU 18	131.41	263.77	975.04	2.5	11.96	2.69	-95.05	SLU 20	131.53	263.77	975.16	2.5	97.94	Si
2.28	2X/2Y ø8/14.9	-22.06	-91.81	SLU 18	131.09	263.77	974.7	2.5	11.96	2.69	-92.69	SLU 20	131.21	263.77	974.83	2.5	97.94	Si
2.57	2X/2Y ø8/14.9	-22.06	-89.45	SLU 18	130.76	263.77	974.37	2.5	11.96	2.69	-90.32	SLU 20	130.88	263.77	974.49	2.5	97.94	Si
2.86	2X/2Y ø8/14.9	-22.06	-87.08	SLU 18	130.44	263.77	974.03	2.5	11.96	2.69	-87.96	SLU 20	130.56	263.77	974.16	2.5	97.94	Si
3.15	2X/2Y ø8/14.9	-22.06	-84.76	SLU 18	130.12	263.77	973.7	2.5	11.96	2.69	-85.64	SLU 20	130.24	263.77	973.83	2.5	97.94	Si
3.75	2X/2Y ø8/14.9	3.74	-45.71	SLU 18	124.77	263.77	968.16	2.5	70.61	-0.6	-44.92	SLU 20	124.66	263.77	968.05	2.5	441.13	Si
4.04	2X/2Y ø8/14.9	3.74	-43.39	SLU 18	124.45	263.77	967.84	2.5	70.61	-0.6	-42.6	SLU 20	124.34	263.77	967.72	2.5	441.13	Si
4.32	2X/2Y ø8/14.9	3.74	-41.08	SLU 18	124.13	263.77	967.51	2.5	70.61	-0.6	-40.28	SLU 20	124.02	263.77	967.4	2.5	441.13	Si
4.61	2X/2Y ø8/14.9	3.74	-38.76	SLU 18	123.82	263.77	967.18	2.5	70.61	-0.6	-37.97	SLU 20	123.71	263.77	967.07	2.5	441.13	Si
4.89	2X/2Y ø8/14.9	3.74	-36.45	SLU 18	123.5	263.77	966.85	2.5	70.61	-0.6	-35.65	SLU 20	123.39	263.77	966.74	2.5	441.13	Si
5.18	2X/2Y ø8/14.9	3.74	-34.13	SLU 18	123.18	263.77	966.52	2.5	70.61	-0.6	-33.34	SLU 20	123.07	263.77	966.41	2.5	441.13	Si
5.46	2X/2Y ø8/14.9	3.74	-31.81	SLU 18	122.86	263.77	966.19	2.5	70.61	-0.6	-31.02	SLU 20	122.75	263.77	966.08	2.5	441.13	Si
5.75	2X/2Y ø8/10	3.74	-29.46	SLU 18	122.54	391.99	965.86	2.5	104.93	-0.6	-28.67	SLU 20	122.43	391.99	965.75	2.5	655.56	Si
6.03	2X/2Y ø8/10	3.74	-27.18	SLU 18	122.23	391.99	965.54	2.5	104.93	-0.6	-26.39	SLU 20	122.12	391.99	965.42	2.5	655.56	Si
6.32	2X/2Y ø8/10	3.74	-24.87	SLU 18	121.91	391.99	965.21	2.5	104.93	-0.6	-24.08	SLU 20	121.8	391.99	965.1	2.5	655.56	Si
6.6	2X/2Y ø8/10	3.74	-22.59	SLU 18	121.6	391.99	964.89	2.5	104.93	-0.6	-21.8	SLU 20	121.49	391.99	964.77	2.5	655.56	Si

1.1.7.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.98	2X/2Y ø8/10	-34.08	-86.98	SLV 1	130.43	391.99	974.02	2.5	11.5	35.58	-86.98	SLV 10	130.43	391.99	974.02	2.5	11.02	Si
-0.93	2X/2Y ø8/10	-34.08	-86.63	SLV 1	130.38	391.99	973.97	2.5	11.5	35.58	-86.64	SLV 10	130.38	391.99	973.97	2.5	11.02	Si
-0.63	2X/2Y ø8/10	-34.08	-84.85	SLV 1	130.13	391.99	973.72	2.5	11.5	35.58	-84.85	SLV 10	130.13	391.99	973.72	2.5	11.02	Si
-0.34	2X/2Y ø8/10	-34.08	-83.03	SLV 1	129.88	391.99	973.46	2.5	11.5	35.58	-83.03	SLV 10	129.88	391.99	973.46	2.5	11.02	Si
-0.05	2X/2Y ø8/10	-34.08	-81.21	SLV 1	129.63	391.99	973.2	2.5	11.5	35.58	-81.21	SLV 10	129.64	391.99	973.2	2.5	11.02	Si
0.24	2X/2Y ø8/10	-34.08	-79.39	SLV 1	129.39	391.99	972.94	2.5	11.5	35.58	-79.39	SLV 10	129.39	391.99	972.94	2.5	11.02	Si
0.53	2X/2Y ø8/14.9	-34.08	-77.57	SLV 1	129.14	263.77	972.68	2.5	7.74	35.58	-77.57	SLV 10	129.14	263.77	972.68	2.5	7.41	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
0.82	2X/2Y ø8/14.9	-34.08	-75.75	SLV 1	128.89	263.77	972.43	2.5	7.74	35.58	-75.76	SLV 10	128.89	263.77	972.43	2.5	7.41	Si
1.11	2X/2Y ø8/14.9	-34.08	-73.93	SLV 1	128.64	263.77	972.17	2.5	7.74	35.58	-73.94	SLV 10	128.64	263.77	972.17	2.5	7.41	Si
1.4	2X/2Y ø8/14.9	-34.08	-72.11	SLV 1	128.39	263.77	971.91	2.5	7.74	35.58	-72.12	SLV 10	128.39	263.77	971.91	2.5	7.41	Si
1.69	2X/2Y ø8/14.9	-34.08	-70.29	SLV 1	128.14	263.77	971.65	2.5	7.74	35.58	-70.3	SLV 10	128.14	263.77	971.65	2.5	7.41	Si
1.99	2X/2Y ø8/14.9	-34.08	-68.47	SLV 1	127.89	263.77	971.39	2.5	7.74	35.58	-68.48	SLV 10	127.89	263.77	971.39	2.5	7.41	Si
2.28	2X/2Y ø8/14.9	-34.08	-66.65	SLV 1	127.64	263.77	971.14	2.5	7.74	35.58	-66.66	SLV 10	127.64	263.77	971.14	2.5	7.41	Si
2.57	2X/2Y ø8/14.9	-34.08	-64.84	SLV 1	127.39	263.77	970.88	2.5	7.74	35.58	-64.84	SLV 10	127.39	263.77	970.88	2.5	7.41	Si
2.86	2X/2Y ø8/14.9	-34.08	-63.02	SLV 1	127.14	263.77	970.62	2.5	7.74	35.58	-63.02	SLV 10	127.14	263.77	970.62	2.5	7.41	Si
3.15	2X/2Y ø8/14.9	-34.08	-61.23	SLV 1	126.9	263.77	970.37	2.5	7.74	35.58	-61.23	SLV 10	126.9	263.77	970.37	2.5	7.41	Si
3.75	2X/2Y ø8/14.9	50.72	-33.79	SLV 13	123.13	263.77	966.47	2.5	5.2	-51.36	-33.79	SLV 10	123.13	263.77	966.47	2.5	5.14	Si
4.04	2X/2Y ø8/14.9	50.72	-32.01	SLV 13	122.89	263.77	966.22	2.5	5.2	-51.36	-32.01	SLV 10	122.89	263.77	966.22	2.5	5.14	Si
4.32	2X/2Y ø8/14.9	50.72	-30.23	SLV 13	122.65	263.77	965.97	2.5	5.2	-51.36	-30.23	SLV 10	122.65	263.77	965.97	2.5	5.14	Si
4.61	2X/2Y ø8/14.9	50.72	-28.45	SLV 13	122.4	263.77	965.72	2.5	5.2	-51.36	-28.45	SLV 10	122.4	263.77	965.72	2.5	5.14	Si
4.89	2X/2Y ø8/14.9	50.72	-26.67	SLV 13	122.16	263.77	965.46	2.5	5.2	-51.36	-26.67	SLV 10	122.16	263.77	965.46	2.5	5.14	Si
5.18	2X/2Y ø8/14.9	50.72	-24.89	SLV 13	121.91	263.77	965.21	2.5	5.2	-51.36	-24.89	SLV 10	121.91	263.77	965.21	2.5	5.14	Si
5.46	2X/2Y ø8/14.9	50.72	-23.11	SLV 13	121.67	263.77	964.96	2.5	5.2	-51.36	-23.1	SLV 10	121.67	263.77	964.96	2.5	5.14	Si
5.75	2X/2Y ø8/10	50.72	-21.29	SLV 13	121.42	391.99	964.7	2.5	7.73	-51.36	-21.29	SLV 10	121.42	391.99	964.7	2.5	7.63	Si
6.03	2X/2Y ø8/10	50.72	-19.54	SLV 13	121.18	391.99	964.45	2.5	7.73	-51.36	-19.54	SLV 10	121.18	391.99	964.45	2.5	7.63	Si
6.32	2X/2Y ø8/10	50.72	-17.76	SLV 13	120.94	391.99	964.2	2.5	7.73	-51.36	-17.76	SLV 10	120.94	391.99	964.2	2.5	7.63	Si
6.6	2X/2Y ø8/10	50.72	-16.01	SLV 13	120.7	391.99	963.95	2.5	7.73	-51.36	-16.01	SLV 10	120.7	391.99	963.95	2.5	7.63	Si

1.1.7.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.975	-0.975	3.45	X	2.263	0.13	0.5	0.0305	0.0015	0.018141	0	130.426	1412.325	391.986	156.794	281.945	391.986	-34.083	-86.978	SLV 1	Si
-0.975	-0.975	3.45	Y	2.263	0.13	0.5	0.0305	0.000112	0.018141	0	130.426	1412.326	391.986	156.794	281.945	391.986	35.583	-86.983	SLV 10	Si

1.1.7.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.98	2X/2Y ø8/10	-22.8	-86.98	SLD 1	130.43	391.99	974.02	2.5	17.19	16.2	-86.98	SLD 10	130.43	391.99	974.02	2.5	24.19	Si
-0.93	2X/2Y ø8/10	-22.8	-86.64	SLD 1	130.38	391.99	973.97	2.5	17.19	16.2	-86.64	SLD 10	130.38	391.99	973.97	2.5	24.19	Si
-0.63	2X/2Y ø8/10	-22.8	-84.85	SLD 1	130.13	391.99	973.72	2.5	17.19	16.2	-84.85	SLD 10	130.13	391.99	973.72	2.5	24.19	Si
-0.34	2X/2Y ø8/10	-22.8	-83.03	SLD 1	129.88	391.99	973.46	2.5	17.19	16.2	-83.03	SLD 10	129.88	391.99	973.46	2.5	24.19	Si
-0.05	2X/2Y ø8/10	-22.8	-81.21	SLD 1	129.64	391.99	973.2	2.5	17.19	16.2	-81.21	SLD 10	129.64	391.99	973.2	2.5	24.19	Si
0.24	2X/2Y ø8/10	-22.8	-79.39	SLD 1	129.39	391.99	972.94	2.5	17.19	16.2	-79.39	SLD 10	129.39	391.99	972.94	2.5	24.19	Si
0.53	2X/2Y ø8/14.9	-22.8	-77.57	SLD 1	129.14	263.77	972.68	2.5	11.57	16.2	-77.57	SLD 10	129.14	263.77	972.68	2.5	16.28	Si
0.82	2X/2Y ø8/14.9	-22.8	-75.75	SLD 1	128.89	263.77	972.43	2.5	11.57	16.2	-75.75	SLD 10	128.89	263.77	972.43	2.5	16.28	Si
1.11	2X/2Y ø8/14.9	-22.8	-73.93	SLD 1	128.64	263.77	972.17	2.5	11.57	16.2	-73.94	SLD 10	128.64	263.77	972.17	2.5	16.28	Si
1.4	2X/2Y ø8/14.9	-22.8	-72.11	SLD 1	128.39	263.77	971.91	2.5	11.57	16.2	-72.12	SLD 10	128.39	263.77	971.91	2.5	16.28	Si
1.69	2X/2Y ø8/14.9	-22.8	-70.3	SLD 1	128.14	263.77	971.65	2.5	11.57	16.2	-70.3	SLD 10	128.14	263.77	971.65	2.5	16.28	Si
1.99	2X/2Y ø8/14.9	-22.8	-68.48	SLD 1	127.89	263.77	971.39	2.5	11.57	16.2	-68.48	SLD 10	127.89	263.77	971.39	2.5	16.28	Si
2.28	2X/2Y ø8/14.9	-22.8	-66.66	SLD 1	127.64	263.77	971.14	2.5	11.57	16.2	-66.66	SLD 10	127.64	263.77	971.14	2.5	16.28	Si
2.57	2X/2Y ø8/14.9	-22.8	-64.84	SLD 1	127.39	263.77	970.88	2.5	11.57	16.2	-64.84	SLD 10	127.39	263.77	970.88	2.5	16.28	Si
2.86	2X/2Y ø8/14.9	-22.8	-63.02	SLD 1	127.14	263.77	970.62	2.5	11.57	16.2	-63.02	SLD 10	127.14	263.77	970.62	2.5	16.28	Si
3.15	2X/2Y ø8/14.9	-22.8	-61.23	SLD 1	126.9	263.77	970.37	2.5	11.57	16.2	-61.23	SLD 10	126.9	263.77	970.37	2.5	16.28	Si
3.75	2X/2Y ø8/14.9	23.14	-33.79	SLD 13	123.13	263.77	966.47	2.5	11.4	-22.21	-33.79	SLD 10	123.13	263.77	966.47	2.5	11.88	Si
4.04	2X/2Y ø8/14.9	23.14	-32.01	SLD 13	122.89	263.77	966.22	2.5	11.4	-22.21	-32.01	SLD 10	122.89	263.77	966.22	2.5	11.88	Si
4.32	2X/2Y ø8/14.9	23.14	-30.23	SLD 13	122.65	263.77	965.97	2.5	11.4	-22.21	-30.23	SLD 10	122.65	263.77	965.97	2.5	11.88	Si
4.61	2X/2Y ø8/14.9	23.14	-28.45	SLD 13	122.4	263.77	965.72	2.5	11.4	-22.21	-28.45	SLD 10	122.4	263.77	965.72	2.5	11.88	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
4.89	2X/2Y ø8/14.9	23.14	-26.67	SLD 13	122.16	263.77	965.46	2.5	11.4	-22.21	-26.67	SLD 10	122.16	263.77	965.46	2.5	11.88	Si
5.18	2X/2Y ø8/14.9	23.14	-24.89	SLD 13	121.91	263.77	965.21	2.5	11.4	-22.21	-24.89	SLD 10	121.91	263.77	965.21	2.5	11.88	Si
5.46	2X/2Y ø8/14.9	23.14	-23.11	SLD 13	121.67	263.77	964.96	2.5	11.4	-22.21	-23.1	SLD 10	121.67	263.77	964.96	2.5	11.88	Si
5.75	2X/2Y ø8/10	23.14	-21.29	SLD 13	121.42	391.99	964.7	2.5	16.94	-22.21	-21.29	SLD 10	121.42	391.99	964.7	2.5	17.65	Si
6.03	2X/2Y ø8/10	23.14	-19.54	SLD 13	121.18	391.99	964.45	2.5	16.94	-22.21	-19.54	SLD 10	121.18	391.99	964.45	2.5	17.65	Si
6.32	2X/2Y ø8/10	23.14	-17.76	SLD 13	120.94	391.99	964.2	2.5	16.94	-22.21	-17.76	SLD 10	120.94	391.99	964.2	2.5	17.65	Si
6.6	2X/2Y ø8/10	23.14	-16.01	SLD 13	120.7	391.99	963.95	2.5	16.94	-22.21	-16.01	SLD 10	120.7	391.99	963.95	2.5	17.65	Si

1.1.7.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.93	11.488	1961	1.347	0.368	1.298	SLV 10	Si
-0.63	11.488	1961	1.347	0.368	1.298	SLV 10	Si
-0.34	11.488	1961	1.347	0.368	1.298	SLV 10	Si
-0.05	11.488	1961	1.347	0.368	1.298	SLV 10	Si
0.24	11.488	1961	1.347	0.368	1.298	SLV 10	Si
0.53	7.713	1961	1.347	0.368	1.298	SLV 10	Si
0.82	7.713	1961	1.347	0.368	1.298	SLV 10	Si
1.11	7.713	1961	1.347	0.368	1.298	SLV 10	Si
1.4	7.713	1961	1.347	0.368	1.298	SLV 10	Si
1.69	7.713	1961	1.347	0.368	1.298	SLV 10	Si
1.99	7.713	1961	1.347	0.368	1.298	SLV 10	Si
2.28	7.713	1961	1.347	0.368	1.298	SLV 10	Si
2.57	7.713	1961	1.347	0.368	1.298	SLV 10	Si
2.86	7.713	1961	1.347	0.368	1.298	SLV 10	Si
3.15	7.713	1961	1.347	0.368	1.298	SLV 10	Si
3.75	5.156	1961	1.347	0.368	1.298	SLV 10	Si
4.04	5.156	1961	1.347	0.368	1.298	SLV 10	Si
4.32	5.156	1961	1.347	0.368	1.298	SLV 10	Si
4.61	5.156	1961	1.347	0.368	1.298	SLV 10	Si
4.89	5.156	1961	1.347	0.368	1.298	SLV 10	Si
5.18	5.156	1961	1.347	0.368	1.298	SLV 10	Si
5.46	5.156	1961	1.347	0.368	1.298	SLV 10	Si
5.75	7.672	1961	1.347	0.368	1.298	SLV 10	Si
6.03	7.672	1961	1.347	0.368	1.298	SLV 10	Si
6.32	7.672	1961	1.347	0.368	1.298	SLV 10	Si
6.6	7.672	1961	1.347	0.368	1.298	SLV 10	Si

1.1.7.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.98	26.672	1961	3.374	0.368	3.05	SLD 10	Si
-0.93	26.672	1961	3.374	0.368	3.05	SLD 10	Si
-0.63	26.672	1961	3.374	0.368	3.05	SLD 10	Si
-0.34	26.672	1961	3.374	0.368	3.05	SLD 10	Si
-0.05	26.672	1961	3.374	0.368	3.05	SLD 10	Si
0.24	26.672	1961	3.374	0.368	3.05	SLD 10	Si
0.53	17.923	1961	3.374	0.368	3.05	SLD 10	Si
0.82	17.923	1961	3.374	0.368	3.05	SLD 10	Si
1.11	17.923	1961	3.374	0.368	3.05	SLD 10	Si
1.4	17.923	1961	3.374	0.368	3.05	SLD 10	Si
1.69	17.923	1961	3.374	0.368	3.05	SLD 10	Si
1.99	17.923	1961	3.374	0.368	3.05	SLD 10	Si
2.28	17.923	1961	3.374	0.368	3.05	SLD 10	Si
2.57	17.923	1961	3.374	0.368	3.05	SLD 10	Si
2.86	17.923	1961	3.374	0.368	3.05	SLD 10	Si
3.15	17.923	1961	3.374	0.368	3.05	SLD 10	Si
3.75	12.03	1961	3.374	0.368	3.05	SLD 10	Si
4.04	12.03	1961	3.374	0.368	3.05	SLD 10	Si
4.32	12.03	1961	3.374	0.368	3.05	SLD 10	Si
4.61	12.03	1961	3.374	0.368	3.05	SLD 10	Si
4.89	12.03	1961	3.374	0.368	3.05	SLD 10	Si
5.18	12.03	1961	3.374	0.368	3.05	SLD 10	Si
5.46	12.03	1961	3.374	0.368	3.05	SLD 10	Si
5.75	17.893	1961	3.374	0.368	3.05	SLD 9	Si
6.03	17.893	1961	3.374	0.368	3.05	SLD 9	Si
6.32	17.893	1961	3.374	0.368	3.05	SLD 9	Si
6.6	17.893	1961	3.374	0.368	3.05	SLD 9	Si

1.1.7.4 Verifiche nodi trave colonna

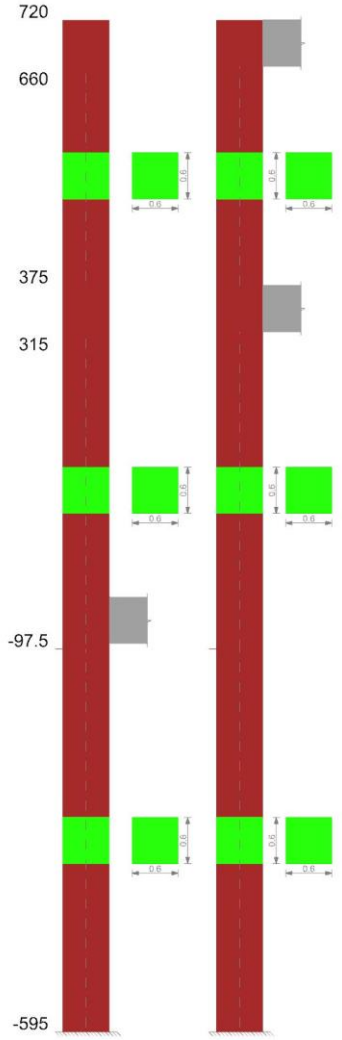
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.7.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.8 P12

Geometria



1.1.8.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.8.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.95	-0.98	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2
-0.98	3.15	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2
3.75	6.6	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.8.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	0.2531	-0.2131	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.1	0.2531	0.2531	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2531	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2131	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	0.2531	-0.2531	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	0.2531	-0.2131	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	0.2531	0.2531	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	0.2531	0.2131	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	-0.2531	0.2531	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	-0.2531	0.2131	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.3	-0.2531	-0.2531	0.026	0.0005309	-0.974	3.75	R 60x60_1	Armature LC2
p.3	-0.2531	-0.2131	0.026	0.0005309	-0.974	3.75	R 60x60_1	Armature LC2
p.3	0.2531	-0.2531	0.026	0.0005309	-0.974	3.75	R 60x60_1	Armature LC2
p.3	0.2531	-0.2131	0.026	0.0005309	-0.974	3.75	R 60x60_1	Armature LC2
p.3	0.2531	0.2531	0.026	0.0005309	-0.974	3.75	R 60x60_1	Armature LC2
p.3	0.2531	0.2131	0.026	0.0005309	-0.974	3.75	R 60x60_1	Armature LC2
p.3	-0.2531	0.2531	0.026	0.0005309	-0.974	3.75	R 60x60_1	Armature LC2
p.3	-0.2531	0.2131	0.026	0.0005309	-0.974	3.75	R 60x60_1	Armature LC2
p.4	-0.2531	-0.2531	0.026	0.0005309	3.751	7.2	R 60x60_1	Armature LC2
p.4	-0.2531	-0.2131	0.026	0.0005309	3.751	7.2	R 60x60_1	Armature LC2
p.4	0.2531	-0.2531	0.026	0.0005309	3.751	7.2	R 60x60_1	Armature LC2
p.4	0.2531	-0.2131	0.026	0.0005309	3.751	7.2	R 60x60_1	Armature LC2
p.4	0.2531	0.2531	0.026	0.0005309	3.751	7.2	R 60x60_1	Armature LC2
p.4	0.2531	0.2131	0.026	0.0005309	3.751	7.2	R 60x60_1	Armature LC2
p.4	-0.2531	0.2531	0.026	0.0005309	3.751	7.2	R 60x60_1	Armature LC2
p.4	-0.2531	0.2131	0.026	0.0005309	3.751	7.2	R 60x60_1	Armature LC2
p.1	-0.2131	-0.2531	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.1	0.2131	-0.2531	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.1	0.2131	0.2531	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.1	-0.2131	0.2531	0.026	0.0005309	-6.65	-5.25	R 60x60_1	Armature LC2
p.2	-0.2131	-0.2531	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	0.2131	-0.2531	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	0.2131	0.2531	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.2	-0.2131	0.2531	0.026	0.0005309	-5.249	-0.975	R 60x60_1	Armature LC2
p.5	-0.2131	-0.2531	0.026	0.0005309	-0.974	1.35	R 60x60_1	Armature LC2
p.5	0.2131	-0.2531	0.026	0.0005309	-0.974	1.35	R 60x60_1	Armature LC2
p.5	0.2131	0.2531	0.026	0.0005309	-0.974	1.35	R 60x60_1	Armature LC2
p.5	-0.2131	0.2531	0.026	0.0005309	-0.974	1.35	R 60x60_1	Armature LC2
p.6	-0.257	0	0.02	0.0003142	-6.65	-5.25	R 60x60_1	Armature LC2
p.6	0.257	0	0.02	0.0003142	-6.65	-5.25	R 60x60_1	Armature LC2
p.7	-0.257	0	0.02	0.0003142	-5.249	-0.975	R 60x60_1	Armature LC2
p.7	0.257	0	0.02	0.0003142	-5.249	-0.975	R 60x60_1	Armature LC2
p.8	-0.257	0	0.02	0.0003142	-0.974	3.75	R 60x60_1	Armature LC2
p.8	0.257	0	0.02	0.0003142	-0.974	3.75	R 60x60_1	Armature LC2
p.9	-0.257	0	0.02	0.0003142	3.751	7.2	R 60x60_1	Armature LC2
p.9	0.257	0	0.02	0.0003142	3.751	7.2	R 60x60_1	Armature LC2
p.6	0	-0.257	0.02	0.0003142	-6.65	-5.25	R 60x60_1	Armature LC2
p.6	0	0.257	0.02	0.0003142	-6.65	-5.25	R 60x60_1	Armature LC2
p.7	0	-0.257	0.02	0.0003142	-5.249	-0.975	R 60x60_1	Armature LC2
p.7	0	0.257	0.02	0.0003142	-5.249	-0.975	R 60x60_1	Armature LC2
p.8	0	-0.257	0.02	0.0003142	-0.974	3.75	R 60x60_1	Armature LC2
p.8	0	0.257	0.02	0.0003142	-0.974	3.75	R 60x60_1	Armature LC2
p.9	0	-0.257	0.02	0.0003142	3.751	7.2	R 60x60_1	Armature LC2
p.9	0	0.257	0.02	0.0003142	3.751	7.2	R 60x60_1	Armature LC2

1.1.8.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.8.3 Verifiche delle sezioni

1.1.8.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007628	2.1	0	1,6	-11.681	51.0042	-844.85	-136.8484	597.5402	SLU 18	11.715	Si
-5.9	0.007628	2.1	0	1,6	-11.6307	50.2071	-844.21	-136.8265	590.6489	SLU 18	11.764	Si
-5.6	0.007628	2.1	0	1,6	-11.3569	45.8639	-840.7	-136.6967	552.0381	SLU 18	12.036	Si
-5.29	0.007628	2.1	0	1,6	-11.0785	41.4481	-837.14	-136.5305	510.803	SLU 18	12.324	Si
-4.99	0.007628	4.2	0	1,2,6,7	-10.8012	37.0492	-833.59	-136.2392	467.3152	SLU 18	12.613	Si
-4.68	0.007628	4.2	0	1,2,6,7	-10.5217	32.6166	-830.01	-135.688	420.6238	SLU 18	12.896	Si
-4.38	0.007628	3.9	0	1,2,7	-10.2433	28.2009	-826.44	-132.6677	365.2472	SLU 18	12.952	Si
-4.07	0.007628	3.9	0	1,2,7	-9.9649	23.7852	-822.88	-129.6212	309.3907	SLU 18	13.008	Si
-3.77	0.007628	2.1	0	2,7	-9.6866	19.3694	-819.31	-126.5482	253.0482	SLU 18	13.064	Si
-3.46	0.007628	2.1	0	2,7	-9.4082	14.9537	-815.75	-123.4484	196.2132	SLU 18	13.121	Si
-3.16	0.007628	2.1	0	2,7	-9.1298	10.5379	-812.18	-120.3213	138.8794	SLU 18	13.179	Si
-2.85	0.007628	2.1	0	2,7	-8.8514	6.1222	-808.62	-117.1667	81.04	SLU 18	13.237	Si
-2.55	0.007628	2.1	0	2,7	-8.573	1.7064	-805.05	-113.9841	22.6883	SLU 18	13.296	Si
-2.24	0.007628	2.1	0	2,7	-8.2946	-2.7093	-801.49	-110.7732	-36.1824	SLU 18	13.355	Si
-1.94	0.007628	2.1	0	2,7	-8.0152	-7.1418	-797.91	-107.5213	-95.8061	SLU 18	13.415	Si
-1.63	0.007628	2.1	0	2,7	-7.7378	-11.5408	-794.36	-104.265	-155.5089	SLU 18	13.475	Si
-1.33	0.007628	2.1	0	2,7	-7.4594	-15.9565	-790.79	-100.9668	-215.9791	SLU 18	13.535	Si
-1.14	0.007628	2.1	0	2,7	-7.282	-18.7711	-788.52	-98.8491	-254.8073	SLU 18	13.574	Si
-1.03	0.007628	2.1	0	2,7	-7.1856	-20.2998	-787.29	-97.6937	-275.9911	SLU 18	13.596	Si
-0.98	0.007628	2.1	0	2,7	-7.1336	-21.0969	-415.91	-175.5079	-519.044	SLU 18	24.603	Si
-0.93	0.007622	4.2	0	2,3,5,7,8	-7.0834	-20.8318	-415.27	-174.894	-514.3525	SLU 18	24.691	Si
-0.63	0.007622	4.2	0	2,3,5,7,8	-6.822	-19.4529	-411.92	-171.8028	-489.8953	SLU 18	25.184	Si
-0.34	0.007622	4.2	0	2,3,5,7,8	-6.5561	-18.05	-408.52	-168.4891	-463.8795	SLU 18	25.7	Si
-0.05	0.007623	3.9	0	2,3,5,8	-6.2901	-16.647	-405.11	-164.9794	-436.6237	SLU 18	26.228	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
0.24	0.007623	3.9	0	2,3,5,8	-6.0242	-15.244	-401.71	-160.492	-406.122	SLU 18	26.641	Si
0.53	0.007628	2.1	0	3,5,8	-5.7582	-13.841	-398.3	-154.7443	-371.9598	SLU 18	26.874	Si
0.82	0.007628	2.1	0	3,5,8	-5.4923	-12.4381	-394.89	-148.8701	-337.1394	SLU 18	27.105	Si
1.11	0.007628	2.1	0	3,5,8	-5.2263	-11.0351	-391.49	-142.8937	-301.7132	SLU 18	27.341	Si
1.4	0.007544	2.1	0	3,5,8	-4.9604	-9.6321	-388.08	-136.4046	-264.8732	SLU 18	27.499	Si
1.69	0.007086	2.1	0	3,5,8	-4.6944	-8.2292	-384.68	-128.1183	-224.5875	SLU 18	27.292	Si
1.99	0.006629	2.1	0	3,5,8	-4.4285	-6.8262	-381.27	-119.9259	-184.858	SLU 18	27.081	Si
2.28	0.006172	2.1	0	3,5,8	-4.1625	-5.4232	-377.87	-111.8298	-145.6998	SLU 18	26.866	Si
2.57	0.005715	2.1	0	3,5,8	-3.8966	-4.0202	-374.46	-103.8328	-107.1285	SLU 18	26.647	Si
2.86	0.005504	1.5	0	3,8	-3.6306	-2.6173	-371.06	-96.8521	-69.8197	SLU 18	26.676	Si
3.15	0.005504	1.5	0	3,8	-3.3692	-1.2384	-367.71	-90.6975	-33.3369	SLU 18	26.919	Si
3.75	0.005504	3.1	0	3,4,8,9	-2.8057	0.7211	-179.06	-155.1015	39.8606	SLU 18	55.281	Si
4.04	0.005504	3.1	0	3,4,8,9	-2.53	0.6436	-175.72	-142.5127	36.2519	SLU 18	56.33	Si
4.32	0.005504	3.1	0	3,4,8,9	-2.2542	0.5661	-172.39	-129.4369	32.5035	SLU 18	57.42	Si
4.61	0.005504	2.7	0	3,4,9	-1.9785	0.4886	-169.05	-115.8453	28.6073	SLU 18	58.552	Si
4.89	0.005504	2.7	0	3,4,9	-1.7028	0.4111	-165.72	-101.7067	24.5543	SLU 18	59.73	Si
5.18	0.005504	1.5	0	4,9	-1.427	0.3336	-162.38	-86.9875	20.3348	SLU 18	60.957	Si
5.46	0.005504	1.5	0	4,9	-1.1513	0.2561	-159.05	-71.651	15.9384	SLU 18	62.235	Si
5.75	0.005504	1.5	0	4,9	-0.8756	0.1786	-155.72	-55.6578	11.3538	SLU 18	63.567	Si
6.03	0.004932	1.5	0	4,9	-0.5998	0.1011	-152.38	-38.1111	6.4246	SLU 18	63.536	Si
6.32	0.004037	1.5	0	4,9	-0.3241	0.0236	-149.05	-20.3147	1.4808	SLU 18	62.679	Si
6.6	0.002827	1.5	0	4,9	-0.0532	-0.0525	-145.77	-3.2428	-3.1999	SLU 18	60.941	Si

1.1.8.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-5.95	0.007628	2.1	0	1,6	-93.9227	50.6732	-562.36	-1309.7849	706.6555	SLV 15	13.945				Si
-5.9	0.007628	2.1	0	1,6	-92.8337	49.9154	-561.86	-1308.5183	703.5715	SLV 15	14.095				Si
-5.6	0.007628	2.1	0	1,6	-87.0165	38.4876	-559.17	-1343.5203	594.2412	SLV 15	15.44				Si
-5.29	0.007628	2.1	0	1,6	57.1663	48.9747	-556.43	1012.3716	867.305	SLV 1	17.709				Si
-4.99	0.007628	4.2	0	1,2,6,7	53.0539	45.3632	-553.69	987.1516	844.0539	SLV 1	18.607				Si
-4.68	0.007628	4.2	0	1,2,6,7	49.7908	42.3464	-550.94	965.2099	820.8972	SLV 1	19.385				Si
-4.38	0.007628	3.9	0	1,2,7	-69.3907	-5.1111	-548.2	-1376.7533	-101.4065	SLV 16	19.841				Si
-4.07	0.007628	3.9	0	1,2,7	-67.3087	-8.8904	-545.45	-1349.8153	-178.2884	SLV 16	20.054				Si
-3.77	0.007628	2.1	0	2,7	-65.9701	-13.1211	-542.71	-1326.0648	-263.7478	SLV 16	20.101				Si
-3.46	0.007628	2.1	0	2,7	-74.0796	-3.8947	-539.97	-1435.0484	-75.4468	SLV 12	19.372				Si
-3.16	0.007628	2.1	0	2,7	-81.4763	-6.7312	-537.23	-1492.7685	-123.325	SLV 12	18.322				Si
-2.85	0.007628	2.1	0	2,7	-89.4993	-9.8283	-534.49	-1542.7328	-169.4133	SLV 12	17.237				Si
-2.55	0.007628	2.1	0	2,7	-97.9528	-13.2432	-531.74	-1580.4982	-213.6826	SLV 12	16.135				Si
-2.24	0.007628	2.1	0	2,7	-106.7229	-17.0071	-529	-1608.7819	-256.3713	SLV 12	15.074				Si
-1.94	0.007628	2.1	0	2,7	-115.7786	-21.1081	-526.25	-1623.3795	-295.9653	SLV 12	14.021				Si
-1.63	0.007628	2.1	0	2,7	-124.9848	-24.1852	-523.52	-1634.9924	-316.3801	SLV 12	13.082				Si
-1.33	0.007628	2.1	0	2,7	-134.4213	-18.3542	-520.78	-1687.3865	-230.3999	SLV 12	12.553				Si
-1.14	0.007628	2.1	0	2,7	-140.5296	-20.1897	-519.03	-1682.9127	-241.7822	SLV 12	11.976				Si
-1.03	0.007628	2.1	0	2,7	-143.8874	-21.1729	-518.08	-1679.3191	-247.1108	SLV 12	11.671				Si
-0.98	0.007628	2.1	0	2,7	-145.261	-21.6856	-269.62	-1370.4425	-204.5894	SLV 12	9.434				Si
-0.93	0.007622	4.2	0	2,3,5,7,8	-147.0281	-21.5758	-269.12	-1362.8047	-199.9861	SLV 12	9.269				Si
-0.63	0.007622	4.2	0	2,3,5,7,8	-156.2896	-20.5603	-266.55	-1329.2301	-174.8633	SLV 12	8.505				Si
-0.34	0.007622	4.2	0	2,3,5,7,8	-165.877	-18.8999	-263.93	-1298.1808	-147.9141	SLV 12	7.826				Si
-0.05	0.007623	3.9	0	2,3,5,8	-175.6216	-17.0225	-261.31	-1269.1308	-123.0133	SLV 12	7.227				Si
0.24	0.007623	3.9	0	2,3,5,8	-185.534	-14.9377	-258.69	-1240.5915	-99.8821	SLV 11	6.687				Si
0.53	0.007628	2.1	0	3,5,8	-195.5538	-12.9744	-256.07	-1213.6257	-80.5203	SLV 11	6.206				Si
0.82	0.007628	2.1	0	3,5,8	-205.6855	-11.0073	-253.45	-1187.3745	-63.5428	SLV 11	5.773				Si
1.11	0.007628	2.1	0	3,5,8	-210.482	57.6154	-250.83	-1123.7175	307.5964	SLV 7	5.339				Si
1.4	0.007544	2.1	0	3,5,8	-226.2187	65.3987	-248.21	-1082.322	312.894	SLV 7	4.784				Si
1.69	0.007086	2.1	0	3,5,8	-236.5911	73.218	-245.59	-1002.2314	310.161	SLV 7	4.236				Si
1.99	0.006629	2.1	0	3,5,8	-247.0183	81.0647	-242.97	-926.5335	304.0629	SLV 7	3.751				Si
2.28	0.006172	2.1	0	3,5,8	-257.491	88.9328	-240.35	-854.2177	295.0316	SLV 7	3.317				Si
2.57	0.005715	2.1	0	3,5,8	-268.0017	96.8181	-237.73	-784.3225	283.3439	SLV 7	2.927				Si
2.86	0.005504	1.5	0	3,8	-278.5441	104.7173	-235.11	-747.1955	280.9045	SLV 7	2.683				Si
3.15	0.005504	1.5	0	3,8	-288.9316	112.4918	-232.54	-737.8712	287.2807	SLV 7	2.554				Si
3.75	0.005504	3.1	0	3,4,8,9	-284.0822	115.559	-105.57	-661.3958	269.0426	SLV 7	2.328				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
4.04	0.005504	3.1	0	3,4,8,9	-256.1638	104.1967	-103	-666.1485	270.9613	SLV 7	2.6				Si
4.32	0.005504	3.1	0	3,4,8,9	-228.2453	92.8346	-100.44	-672.1601	273.3888	SLV 7	2.945				Si
4.61	0.005504	2.7	0	3,4,9	-200.3269	81.4728	-97.87	-680.0072	276.5584	SLV 7	3.394				Si
4.89	0.005504	2.7	0	3,4,9	-172.4085	70.1115	-95.31	-690.6816	280.8719	SLV 7	4.006				Si
5.18	0.005504	1.5	0	4,9	-144.4901	58.7508	-92.74	-705.9148	287.0306	SLV 7	4.886				Si
5.46	0.005504	1.5	0	4,9	-116.5717	47.3914	-90.18	-729.5707	296.6016	SLV 7	6.259				Si
5.75	0.005504	1.5	0	4,9	-88.6532	36.0342	-87.61	-768.7975	312.4872	SLV 7	8.672				Si
6.03	0.004932	1.5	0	4,9	-60.7348	24.6826	-85.05	-773.2383	314.2441	SLV 7	12.731				Si
6.32	0.004037	1.5	0	4,9	-32.8164	13.3513	-82.48	-877.0712	356.8339	SLV 7	26.727				Si
6.6	0.002827	1.5	0	4,9	2.4201	-5.7444	-79.96	344.1252	-816.811	SLV 14	142.193				Si

1.1.8.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007628	2.1	0	1,6	-47.8406	40.0264	-562.36	-942.3228	788.4048	SLD 15	19.697	Si
-5.9	0.007628	2.1	0	1,6	-47.3302	39.4095	-561.86	-939.0139	781.8697	SLD 15	19.84	Si
-5.6	0.007628	2.1	0	1,6	-44.5984	32.9103	-559.17	-936.3742	690.9739	SLD 15	20.996	Si
-5.29	0.007628	2.1	0	1,6	-41.9816	16.46	-556.42	-974.6199	382.1248	SLD 15	23.215	Si
-4.99	0.007628	4.2	0	1,2,6,7	-39.6213	13.9642	-553.69	-945.7476	333.3204	SLD 15	23.87	Si
-4.68	0.007628	4.2	0	1,2,6,7	-37.614	11.1833	-550.94	-920.5451	273.6928	SLD 15	24.473	Si
-4.38	0.007628	3.9	0	1,2,7	-36.0502	8.1593	-548.2	-900.6159	203.8374	SLD 15	24.982	Si
-4.07	0.007628	3.9	0	1,2,7	-34.8984	4.9071	-545.45	-886.7454	124.686	SLD 15	25.409	Si
-3.77	0.007628	2.1	0	2,7	-34.8178	6.3019	-542.71	-886.7305	160.496	SLD 11	25.468	Si
-3.46	0.007628	2.1	0	2,7	-37.3007	3.5588	-539.97	-940.7652	89.7564	SLD 11	25.221	Si
-3.16	0.007628	2.1	0	2,7	-40.2061	0.7238	-537.23	-1000.202	18.0054	SLD 11	24.877	Si
-2.85	0.007628	2.1	0	2,7	-43.3813	-2.3527	-534.49	-1057.0698	-57.3273	SLD 12	24.367	Si
-2.55	0.007628	2.1	0	2,7	-46.7534	-5.4281	-531.74	-1110.8205	-128.9677	SLD 12	23.759	Si
-2.24	0.007628	2.1	0	2,7	-50.2655	-8.6558	-529	-1160.8693	-199.9034	SLD 12	23.095	Si
-1.94	0.007628	2.1	0	2,7	-53.9026	-12.0371	-526.25	-1206.1333	-269.3447	SLD 12	22.376	Si
-1.63	0.007628	2.1	0	2,7	-57.6088	-14.9682	-523.52	-1246.079	-323.7631	SLD 12	21.63	Si
-1.33	0.007628	2.1	0	2,7	-61.4152	-14.0752	-520.78	-1298.6226	-297.6204	SLD 12	21.145	Si
-1.14	0.007628	2.1	0	2,7	-63.8825	-15.8898	-519.03	-1319.5867	-328.2274	SLD 12	20.656	Si
-1.03	0.007628	2.1	0	2,7	-65.2402	-16.8694	-518.08	-1329.9551	-343.8921	SLD 12	20.386	Si
-0.98	0.007628	2.1	0	2,7	-65.7836	-17.3802	-269.62	-1570.8682	-415.0275	SLD 12	23.879	Si
-0.93	0.007622	4.2	0	2,3,5,7,8	-66.4986	-17.2242	-269.12	-1575.0631	-407.9673	SLD 12	23.686	Si
-0.63	0.007622	4.2	0	2,3,5,7,8	-70.2486	-16.2219	-266.55	-1600.8451	-369.6696	SLD 12	22.788	Si
-0.34	0.007622	4.2	0	2,3,5,7,8	-74.1356	-14.9334	-263.93	-1622.2995	-326.786	SLD 12	21.883	Si
-0.05	0.007623	3.9	0	2,3,5,8	-78.0909	-13.5526	-261.31	-1638.2745	-284.3211	SLD 12	20.979	Si
0.24	0.007623	3.9	0	2,3,5,8	-82.1088	-12.1413	-258.69	-1652.6608	-244.3764	SLD 12	20.128	Si
0.53	0.007628	2.1	0	3,5,8	-86.1823	-10.7208	-256.07	-1653.3031	-205.6656	SLD 12	19.184	Si
0.82	0.007628	2.1	0	3,5,8	-90.3039	-9.2988	-253.45	-1644.4192	-169.3301	SLD 12	18.21	Si
1.11	0.007628	2.1	0	3,5,8	85.1967	-35.073	-250.83	1362.1235	-560.7469	SLD 10	15.988	Si
1.4	0.007544	2.1	0	3,5,8	92.5302	-37.0282	-248.21	1339.9568	-536.2152	SLD 10	14.481	Si
1.69	0.007086	2.1	0	3,5,8	97.5442	-38.9986	-245.59	1268.7457	-507.2507	SLD 10	13.007	Si
1.99	0.006629	2.1	0	3,5,8	-107.1476	32.4924	-242.97	-1247.8872	378.4203	SLD 7	11.646	Si
2.28	0.006172	2.1	0	3,5,8	-111.4155	36.4393	-240.35	-1142.177	373.5576	SLD 7	10.252	Si
2.57	0.005715	2.1	0	3,5,8	-115.6996	40.3935	-237.73	-1044.6942	364.7276	SLD 7	9.029	Si
2.86	0.005504	1.5	0	3,8	-119.9974	44.3536	-235.11	-980.0739	362.2566	SLD 7	8.167	Si
3.15	0.005504	1.5	0	3,8	-124.2325	48.2505	-232.54	-951.8602	369.6918	SLD 7	7.662	Si
3.75	0.005504	3.1	0	3,4,8,9	-121.8411	50.3285	-105.57	-745.3066	307.8614	SLD 7	6.117	Si
4.04	0.005504	3.1	0	3,4,8,9	-109.867	45.3777	-103	-758.5504	313.2994	SLD 7	6.904	Si
4.32	0.005504	3.1	0	3,4,8,9	-97.893	40.427	-100.44	-773.7269	319.5269	SLD 7	7.904	Si
4.61	0.005504	2.7	0	3,4,9	-85.919	35.4764	-97.87	-794.0045	327.8487	SLD 7	9.241	Si
4.89	0.005504	2.7	0	3,4,9	-73.9449	30.526	-95.31	-822.6626	339.6122	SLD 7	11.125	Si
5.18	0.005504	1.5	0	4,9	-61.9709	25.5759	-92.74	-864.7818	356.9026	SLD 7	13.955	Si
5.46	0.005504	1.5	0	4,9	-49.9969	20.6263	-90.18	-926.8043	382.355	SLD 7	18.537	Si
5.75	0.005504	1.5	0	4,9	-38.0228	15.6777	-87.61	-1033.5381	426.1518	SLD 7	27.182	Si
6.03	0.004932	1.5	0	4,9	-26.0488	10.7315	-85.05	-1119.0558	461.0241	SLD 7	42.96	Si
6.32	0.004037	1.5	0	4,9	-14.0747	5.7939	-82.48	-1177.7951	484.8405	SLD 7	83.681	Si
6.6	0.002827	1.5	0	4,9	-1.0448	2.4322	-79.96	-168.3167	391.8351	SLD 3	161.101	Si

1.1.8.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-5.95	11.825	1961	1.347	0.368	1.298	SLV 15	Si
-5.9	11.972	1961	1.347	0.368	1.298	SLV 15	Si
-5.6	12.982	1961	1.347	0.368	1.298	SLV 15	Si
-5.29	13.715	1961	1.347	0.368	1.298	SLV 16	Si
-4.99	14.652	1961	1.347	0.368	1.298	SLV 16	Si
-4.68	15.473	1961	1.347	0.368	1.298	SLV 16	Si
-4.38	16.106	1961	1.347	0.368	1.298	SLV 16	Si
-4.07	16.439	1961	1.347	0.368	1.298	SLV 16	Si
-3.77	16.561	1961	1.347	0.368	1.298	SLV 16	Si
-3.46	14.945	1961	1.347	0.368	1.298	SLV 11	Si
-3.16	13.349	1961	1.347	0.368	1.298	SLV 11	Si
-2.85	11.957	1961	1.347	0.368	1.298	SLV 11	Si
-2.55	10.785	1961	1.347	0.368	1.298	SLV 11	Si
-2.24	9.774	1961	1.347	0.368	1.298	SLV 11	Si
-1.94	8.91	1961	1.347	0.368	1.298	SLV 11	Si
-1.63	8.192	1961	1.347	0.368	1.298	SLV 11	Si
-1.33	7.59	1961	1.347	0.368	1.298	SLV 11	Si
-1.14	7.221	1961	1.347	0.368	1.298	SLV 11	Si
-1.03	7.043	1961	1.347	0.368	1.298	SLV 11	Si
-0.98	6.551	1961	1.347	0.368	1.298	SLV 11	Si
-0.93	6.455	1961	1.347	0.368	1.298	SLV 11	Si
-0.63	6.045	1961	1.347	0.368	1.298	SLV 11	Si
-0.34	5.662	1961	1.347	0.368	1.298	SLV 11	Si
-0.05	5.334	1961	1.347	0.368	1.298	SLV 11	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
0.24	5.026	1961	1.347	0.368	1.298	SLV 11	Si
0.53	4.76	1961	1.347	0.368	1.298	SLV 11	Si
0.82	4.514	1961	1.347	0.368	1.298	SLV 11	Si
1.11	4.315	1961	1.347	0.368	1.298	SLV 7	Si
1.4	3.959	1961	1.347	0.368	1.298	SLV 7	Si
1.69	3.561	1961	1.347	0.368	1.298	SLV 7	Si
1.99	3.203	1961	1.347	0.368	1.298	SLV 7	Si
2.28	2.869	1961	1.347	0.368	1.298	SLV 7	Si
2.57	2.564	1961	1.347	0.368	1.298	SLV 7	Si
2.86	2.383	1961	1.347	0.368	1.298	SLV 7	Si
3.15	2.289	1961	1.347	0.368	1.298	SLV 7	Si
3.75	2.219	1961	1.347	0.368	1.298	SLV 7	Si
4.04	2.459	1961	1.347	0.368	1.298	SLV 7	Si
4.32	2.758	1961	1.347	0.368	1.298	SLV 7	Si
4.61	3.139	1961	1.347	0.368	1.298	SLV 7	Si
4.89	3.643	1961	1.347	0.368	1.298	SLV 7	Si
5.18	4.343	1961	1.347	0.368	1.298	SLV 7	Si
5.46	5.375	1961	1.347	0.368	1.298	SLV 7	Si
5.75	7.07	1961	1.347	0.368	1.298	SLV 7	Si
6.03	9.335	1961	1.347	0.368	1.298	SLV 7	Si
6.32	14.418	1961	1.347	0.368	1.298	SLV 7	Si
6.6	60.924	1961	1.347	0.368	1.298	SLV 3	Si

1.1.8.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-5.95	27.489	1961	3.374	0.368	3.05	SLD 15	Si
-5.9	27.822	1961	3.374	0.368	3.05	SLD 15	Si
-5.6	30.184	1961	3.374	0.368	3.05	SLD 15	Si
-5.29	31.879	1961	3.374	0.368	3.05	SLD 16	Si
-4.99	34.038	1961	3.374	0.368	3.05	SLD 16	Si
-4.68	36.007	1961	3.374	0.368	3.05	SLD 16	Si
-4.38	37.483	1961	3.374	0.368	3.05	SLD 16	Si
-4.07	38.345	1961	3.374	0.368	3.05	SLD 16	Si
-3.77	38.652	1961	3.374	0.368	3.05	SLD 16	Si
-3.46	34.838	1961	3.374	0.368	3.05	SLD 11	Si
-3.16	31.152	1961	3.374	0.368	3.05	SLD 11	Si
-2.85	27.943	1961	3.374	0.368	3.05	SLD 11	Si
-2.55	25.188	1961	3.374	0.368	3.05	SLD 11	Si
-2.24	22.857	1961	3.374	0.368	3.05	SLD 11	Si
-1.94	20.829	1961	3.374	0.368	3.05	SLD 11	Si
-1.63	19.134	1961	3.374	0.368	3.05	SLD 11	Si
-1.33	17.711	1961	3.374	0.368	3.05	SLD 11	Si
-1.14	16.878	1961	3.374	0.368	3.05	SLD 11	Si
-1.03	16.439	1961	3.374	0.368	3.05	SLD 11	Si
-0.98	15.297	1961	3.374	0.368	3.05	SLD 11	Si
-0.93	15.092	1961	3.374	0.368	3.05	SLD 11	Si
-0.63	14.11	1961	3.374	0.368	3.05	SLD 11	Si
-0.34	13.231	1961	3.374	0.368	3.05	SLD 11	Si
-0.05	12.455	1961	3.374	0.368	3.05	SLD 11	Si
0.24	11.752	1961	3.374	0.368	3.05	SLD 11	Si
0.53	11.107	1961	3.374	0.368	3.05	SLD 11	Si
0.82	10.521	1961	3.374	0.368	3.05	SLD 11	Si
1.11	10.082	1961	3.374	0.368	3.05	SLD 7	Si
1.4	9.232	1961	3.374	0.368	3.05	SLD 7	Si
1.69	8.31	1961	3.374	0.368	3.05	SLD 7	Si
1.99	7.467	1961	3.374	0.368	3.05	SLD 7	Si
2.28	6.701	1961	3.374	0.368	3.05	SLD 7	Si
2.57	5.99	1961	3.374	0.368	3.05	SLD 7	Si
2.86	5.553	1961	3.374	0.368	3.05	SLD 7	Si
3.15	5.334	1961	3.374	0.368	3.05	SLD 7	Si
3.75	5.177	1961	3.374	0.368	3.05	SLD 7	Si
4.04	5.73	1961	3.374	0.368	3.05	SLD 7	Si
4.32	6.428	1961	3.374	0.368	3.05	SLD 7	Si
4.61	7.316	1961	3.374	0.368	3.05	SLD 7	Si
4.89	8.5	1961	3.374	0.368	3.05	SLD 7	Si
5.18	10.141	1961	3.374	0.368	3.05	SLD 7	Si
5.46	12.543	1961	3.374	0.368	3.05	SLD 7	Si
5.75	16.5	1961	3.374	0.368	3.05	SLD 7	Si
6.03	21.768	1961	3.374	0.368	3.05	SLD 7	Si
6.32	33.669	1961	3.374	0.368	3.05	SLD 7	Si
6.6	142.196	1961	3.374	0.368	3.05	SLD 3	Si

1.1.8.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/9.9	-14.49	-844.85	SLU 18	281.3	482.37	1528.24	2.5	33.28	3.32	-613.69	SLU 14	249.11	482.37	1494.94	2.5	145.44	Si
-5.9	2X/2Y ø8/9.9	-14.49	-844.21	SLU 18	281.21	482.37	1528.15	2.5	33.28	3.32	-613.05	SLU 14	249.03	482.37	1494.85	2.5	145.44	Si
-5.6	2X/2Y ø8/9.9	-14.49	-840.7	SLU 18	280.73	482.37	1527.64	2.5	33.28	3.32	-609.54	SLU 14	248.54	482.37	1494.34	2.5	145.44	Si
-5.29	2X/2Y ø8/9.9	-14.49	-837.14	SLU 18	280.23	482.37	1527.13	2.5	33.28	3.32	-605.97	SLU 14	248.04	482.37	1493.83	2.5	145.44	Si
-4.99	2X/2Y ø8/9.9	-14.49	-833.59	SLU 18	279.74	482.37	1526.62	2.5	33.28	3.32	-602.42	SLU 14	247.55	482.37	1493.32	2.5	145.44	Si
-4.68	2X/2Y ø8/9.9	-14.49	-830.01	SLU 18	279.24	482.37	1526.1	2.5	33.28	3.32	-598.84	SLU 14	247.05	482.37	1492.8	2.5	145.44	Si
-4.38	2X/2Y ø8/14.9	-14.49	-826.44	SLU 18	278.74	320.21	1525.59	2.5	22.09	3.32	-595.28	SLU 14	246.55	320.21	1492.29	2.5	96.54	Si
-4.07	2X/2Y ø8/14.9	-14.49	-822.88	SLU 18	278.24	320.21	1525.08	2.5	22.09	3.32	-591.72	SLU 14	246.05	320.21	1491.78	2.5	96.54	Si
-3.77	2X/2Y ø8/14.9	-14.49	-819.31	SLU 18	277.75	320.21	1524.56	2.5	22.09	3.32	-588.15	SLU 14	245.56	320.21	1491.26	2.5	96.54	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.46	2X/2Y ø8/14.9	-14.49	-815.75	SLU 18	277.25	320.21	1524.05	2.5	22.09	3.32	-584.59	SLU 14	245.06	320.21	1490.75	2.5	96.54	Si
-3.16	2X/2Y ø8/14.9	-14.49	-812.18	SLU 18	276.76	320.21	1523.53	2.5	22.09	3.32	-581.02	SLU 14	244.57	320.21	1490.24	2.5	96.54	Si
-2.85	2X/2Y ø8/14.9	-14.49	-808.62	SLU 18	276.26	320.21	1523.02	2.5	22.09	3.32	-577.46	SLU 14	244.07	320.21	1489.72	2.5	96.54	Si
-2.55	2X/2Y ø8/14.9	-14.49	-805.05	SLU 18	275.76	320.21	1522.51	2.5	22.09	3.32	-573.89	SLU 14	243.57	320.21	1489.21	2.5	96.54	Si
-2.24	2X/2Y ø8/14.9	-14.49	-801.49	SLU 18	275.27	320.21	1521.99	2.5	22.09	3.32	-570.33	SLU 14	243.08	320.21	1488.69	2.5	96.54	Si
-1.94	2X/2Y ø8/14.9	-14.49	-797.91	SLU 18	274.77	320.21	1521.48	2.5	22.09	3.32	-566.75	SLU 14	242.58	320.21	1488.18	2.5	96.54	Si
-1.63	2X/2Y ø8/14.9	-14.49	-794.36	SLU 18	274.27	320.21	1520.97	2.5	22.09	3.32	-563.2	SLU 14	242.08	320.21	1487.67	2.5	96.54	Si
-1.33	2X/2Y ø8/14.9	-14.49	-790.79	SLU 18	273.78	320.21	1520.45	2.5	22.09	3.32	-559.63	SLU 14	241.59	320.21	1487.15	2.5	96.54	Si
-1.14	2X/2Y ø8/14.9	-14.49	-788.52	SLU 18	273.46	320.21	1520.13	2.5	22.09	3.32	-557.36	SLU 14	241.27	320.21	1486.83	2.5	96.54	Si
-1.03	2X/2Y ø8/14.9	-14.49	-787.29	SLU 18	273.29	320.21	1519.95	2.5	22.09	3.32	-556.13	SLU 14	241.1	320.21	1486.65	2.5	96.54	Si
-0.98	2X/2Y ø8/14.9	4.93	-408.47	SLU 20	220.54	320.21	1465.38	2.5	64.99	3.32	-354.07	SLU 14	212.96	320.21	1457.54	2.5	96.54	Si
-0.93	2X/2Y ø8/14.9	4.93	-407.82	SLU 20	220.45	320.21	1465.29	2.5	64.99	3.32	-353.43	SLU 14	212.87	320.21	1457.45	2.5	96.54	Si
-0.63	2X/2Y ø8/14.9	4.93	-404.47	SLU 20	219.98	320.21	1464.8	2.5	64.99	3.32	-350.08	SLU 14	212.41	320.21	1456.97	2.5	96.54	Si
-0.34	2X/2Y ø8/14.9	4.93	-401.07	SLU 20	219.51	320.21	1464.31	2.5	64.99	3.32	-346.68	SLU 14	211.93	320.21	1456.48	2.5	96.54	Si
-0.05	2X/2Y ø8/14.9	4.93	-397.66	SLU 20	219.03	320.21	1463.82	2.5	64.99	3.32	-343.27	SLU 14	211.46	320.21	1455.99	2.5	96.54	Si
0.24	2X/2Y ø8/14.9	4.93	-394.26	SLU 20	218.56	320.21	1463.33	2.5	64.99	3.32	-339.87	SLU 14	210.98	320.21	1455.5	2.5	96.54	Si
0.53	2X/2Y ø8/14.9	4.93	-390.85	SLU 20	218.08	320.21	1462.84	2.5	64.99	3.32	-336.46	SLU 14	210.51	320.21	1455.01	2.5	96.54	Si
0.82	2X/2Y ø8/14.9	4.93	-387.45	SLU 20	217.61	320.21	1462.35	2.5	64.99	3.32	-333.05	SLU 14	210.04	320.21	1454.52	2.5	96.54	Si
1.11	2X/2Y ø8/14.9	4.93	-384.04	SLU 20	217.14	320.21	1461.86	2.5	64.99	3.32	-329.65	SLU 14	209.56	320.21	1454.02	2.5	96.54	Si
1.4	2X/2Y ø8/14.9	4.93	-380.64	SLU 20	216.66	320.21	1461.37	2.5	64.99	3.32	-326.24	SLU 14	209.09	320.21	1453.53	2.5	96.54	Si
1.69	2X/2Y ø8/14.9	4.93	-377.23	SLU 20	216.19	320.21	1460.88	2.5	64.99	3.32	-322.84	SLU 14	208.61	320.21	1453.04	2.5	96.54	Si
1.99	2X/2Y ø8/14.9	4.93	-373.83	SLU 20	215.71	320.21	1460.39	2.5	64.99	3.32	-319.43	SLU 14	208.14	320.21	1452.55	2.5	96.54	Si
2.28	2X/2Y ø8/14.9	4.93	-370.42	SLU 20	215.24	320.21	1459.9	2.5	64.99	3.32	-316.03	SLU 14	207.67	320.21	1452.06	2.5	96.54	Si
2.57	2X/2Y ø8/14.9	4.93	-367.01	SLU 20	214.77	320.21	1459.41	2.5	64.99	3.32	-312.62	SLU 14	207.19	320.21	1451.57	2.5	96.54	Si
2.86	2X/2Y ø8/14.9	4.93	-363.61	SLU 20	214.29	320.21	1458.92	2.5	64.99	3.32	-309.22	SLU 14	206.72	320.21	1451.08	2.5	96.54	Si
3.15	2X/2Y ø8/14.9	4.93	-360.26	SLU 20	213.83	320.21	1458.43	2.5	64.99	3.32	-305.87	SLU 14	206.25	320.21	1450.6	2.5	96.54	Si
3.75	2X/2Y ø8/14.9	-0.75	-128.23	SLU 14	181.52	320.21	1425.01	2.5	428.23	1.36	-152.79	SLU 7	184.93	320.21	1428.55	2.5	235.88	Si
4.04	2X/2Y ø8/14.9	-0.75	-124.9	SLU 14	181.05	320.21	1424.53	2.5	428.23	1.36	-150.22	SLU 7	184.58	320.21	1428.18	2.5	235.88	Si
4.32	2X/2Y ø8/14.9	-0.75	-121.56	SLU 14	180.59	320.21	1424.05	2.5	428.23	1.36	-147.66	SLU 7	184.22	320.21	1427.81	2.5	235.88	Si
4.61	2X/2Y ø8/14.9	-0.75	-118.23	SLU 14	180.12	320.21	1423.57	2.5	428.23	1.36	-145.09	SLU 7	183.86	320.21	1427.44	2.5	235.88	Si
4.89	2X/2Y ø8/14.9	-0.75	-114.89	SLU 14	179.66	320.21	1423.09	2.5	428.23	1.36	-142.53	SLU 7	183.51	320.21	1427.07	2.5	235.88	Si
5.18	2X/2Y ø8/14.9	-0.75	-111.56	SLU 14	179.19	320.21	1422.61	2.5	428.23	1.36	-139.96	SLU 7	183.15	320.21	1426.7	2.5	235.88	Si
5.46	2X/2Y ø8/14.9	-0.75	-108.23	SLU 14	178.73	320.21	1422.13	2.5	428.23	1.36	-137.4	SLU 7	182.79	320.21	1426.33	2.5	235.88	Si
5.75	2X/2Y ø8/9.4	-0.75	-104.89	SLU 14	178.26	507.94	1421.65	2.5	679.28	1.36	-134.83	SLU 7	182.43	507.94	1425.96	2.5	374.17	Si
6.03	2X/2Y ø8/9.4	-0.75	-101.56	SLU 14	177.8	507.94	1421.17	2.5	679.28	1.36	-132.27	SLU 7	182.08	507.94	1425.59	2.5	374.17	Si
6.32	2X/2Y ø8/9.4	-0.75	-98.22	SLU 14	177.34	507.94	1420.69	2.5	679.28	1.36	-129.7	SLU 7	181.72	507.94	1425.22	2.5	374.17	Si
6.6	2X/2Y ø8/9.4	-0.75	-94.95	SLU 14	176.88	507.94	1420.22	2.5	679.28	1.36	-127.18	SLU 7	181.37	507.94	1424.86	2.5	374.17	Si

1.1.8.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/9.9	-21.55	-562.36	SLV 13	241.97	482.37	1487.55	2.5	22.38	39.79	-562.36	SLV 10	241.97	482.37	1487.55	2.5	12.12	Si
-5.9	2X/2Y ø8/9.9	-21.55	-561.86	SLV 13	241.9	482.37	1487.48	2.5	22.38	39.79	-561.86	SLV 10	241.9	482.37	1487.48	2.5	12.12	Si
-5.6	2X/2Y ø8/9.9	-21.55	-559.16	SLV 13	241.52	482.37	1487.09	2.5	22.38	39.79	-559.17	SLV 10	241.52	482.37	1487.09	2.5	12.12	Si
-5.29	2X/2Y ø8/9.9	-21.55	-556.42	SLV 13	241.14	482.37	1486.69	2.5	22.38	39.79	-556.42	SLV 10	241.14	482.37	1486.69	2.5	12.12	Si
-4.99	2X/2Y ø8/9.9	-21.55	-553.69	SLV 13	240.76	482.37	1486.3	2.5	22.38	39.79	-553.69	SLV 10	240.76	482.37	1486.3	2.5	12.12	Si
-4.68	2X/2Y ø8/9.9	-21.55	-550.94	SLV 13	240.38	482.37	1485.9	2.5	22.38	39.79	-550.94	SLV 10	240.38	482.37	1485.9	2.5	12.12	Si
-4.38	2X/2Y ø8/14.9	-21.55	-548.2	SLV 13	239.99	320.21	1485.51	2.5	14.86	39.79	-548.2	SLV 10	240	320.21	1485.51	2.5	8.05	Si
-4.07	2X/2Y ø8/14.9	-21.55	-545.45	SLV 13	239.61	320.21	1485.11	2.5	14.86	39.79	-545.45	SLV 10	239.61	320.21	1485.11	2.5	8.05	Si
-3.77	2X/2Y ø8/14.9	-21.55	-542.71	SLV 13	239.23	320.21	1484.72	2.5	14.86	39.79	-542.71	SLV 10	239.23	320.21	1484.72	2.5	8.05	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.46	2X/2Y ø8/14.9	-21.55	-539.97	SLV 13	238.85	320.21	1484.32	2.5	14.86	39.79	-539.97	SLV 10	238.85	320.21	1484.32	2.5	8.05	Si
-3.16	2X/2Y ø8/14.9	-21.55	-537.23	SLV 13	238.47	320.21	1483.93	2.5	14.86	39.79	-537.23	SLV 10	238.47	320.21	1483.93	2.5	8.05	Si
-2.85	2X/2Y ø8/14.9	-21.55	-534.49	SLV 13	238.09	320.21	1483.53	2.5	14.86	39.79	-534.49	SLV 10	238.09	320.21	1483.53	2.5	8.05	Si
-2.55	2X/2Y ø8/14.9	-21.55	-531.74	SLV 13	237.7	320.21	1483.14	2.5	14.86	39.79	-531.74	SLV 10	237.7	320.21	1483.14	2.5	8.05	Si
-2.24	2X/2Y ø8/14.9	-21.55	-529	SLV 13	237.32	320.21	1482.74	2.5	14.86	39.79	-529	SLV 10	237.32	320.21	1482.74	2.5	8.05	Si
-1.94	2X/2Y ø8/14.9	-21.55	-526.25	SLV 13	236.94	320.21	1482.35	2.5	14.86	39.79	-526.25	SLV 10	236.94	320.21	1482.35	2.5	8.05	Si
-1.63	2X/2Y ø8/14.9	-21.55	-523.52	SLV 13	236.56	320.21	1481.95	2.5	14.86	39.79	-523.52	SLV 10	236.56	320.21	1481.95	2.5	8.05	Si
-1.33	2X/2Y ø8/14.9	-21.55	-520.77	SLV 13	236.18	320.21	1481.56	2.5	14.86	39.79	-520.78	SLV 10	236.18	320.21	1481.56	2.5	8.05	Si
-1.14	2X/2Y ø8/14.9	-21.55	-519.03	SLV 13	235.93	320.21	1481.3	2.5	14.86	39.79	-519.03	SLV 10	235.93	320.21	1481.31	2.5	8.05	Si
-1.03	2X/2Y ø8/14.9	-21.55	-518.08	SLV 13	235.8	320.21	1481.17	2.5	14.86	39.79	-518.08	SLV 10	235.8	320.21	1481.17	2.5	8.05	Si
-0.98	2X/2Y ø8/14.9	42.4	-269.62	SLV 4	201.2	320.21	1445.38	2.5	7.55	39.79	-269.62	SLV 10	201.2	320.21	1445.38	2.5	8.05	Si
-0.93	2X/2Y ø8/14.9	42.4	-269.13	SLV 4	201.13	320.21	1445.31	2.5	7.55	39.79	-269.12	SLV 10	201.13	320.21	1445.31	2.5	8.05	Si
-0.63	2X/2Y ø8/14.9	42.4	-266.55	SLV 4	200.78	320.21	1444.94	2.5	7.55	39.79	-266.55	SLV 10	200.78	320.21	1444.94	2.5	8.05	Si
-0.34	2X/2Y ø8/14.9	42.4	-263.93	SLV 4	200.41	320.21	1444.56	2.5	7.55	39.79	-263.93	SLV 10	200.41	320.21	1444.56	2.5	8.05	Si
-0.05	2X/2Y ø8/14.9	42.4	-261.31	SLV 4	200.05	320.21	1444.18	2.5	7.55	39.79	-261.31	SLV 10	200.05	320.21	1444.18	2.5	8.05	Si
0.24	2X/2Y ø8/14.9	42.4	-258.69	SLV 4	199.68	320.21	1443.8	2.5	7.55	39.79	-258.69	SLV 10	199.68	320.21	1443.8	2.5	8.05	Si
0.53	2X/2Y ø8/14.9	42.4	-256.07	SLV 4	199.32	320.21	1443.43	2.5	7.55	39.79	-256.07	SLV 10	199.32	320.21	1443.43	2.5	8.05	Si
0.82	2X/2Y ø8/14.9	42.4	-253.45	SLV 4	198.95	320.21	1443.05	2.5	7.55	39.79	-253.45	SLV 10	198.95	320.21	1443.05	2.5	8.05	Si
1.11	2X/2Y ø8/14.9	42.4	-250.83	SLV 4	198.59	320.21	1442.67	2.5	7.55	39.79	-250.83	SLV 10	198.59	320.21	1442.67	2.5	8.05	Si
1.4	2X/2Y ø8/14.9	42.4	-248.21	SLV 4	198.22	320.21	1442.29	2.5	7.55	39.79	-248.21	SLV 10	198.22	320.21	1442.29	2.5	8.05	Si
1.69	2X/2Y ø8/14.9	42.4	-245.59	SLV 4	197.86	320.21	1441.92	2.5	7.55	39.79	-245.59	SLV 10	197.86	320.21	1441.92	2.5	8.05	Si
1.99	2X/2Y ø8/14.9	42.4	-242.97	SLV 4	197.49	320.21	1441.54	2.5	7.55	39.79	-242.97	SLV 10	197.49	320.21	1441.54	2.5	8.05	Si
2.28	2X/2Y ø8/14.9	42.4	-240.35	SLV 4	197.13	320.21	1441.16	2.5	7.55	39.79	-240.35	SLV 10	197.13	320.21	1441.16	2.5	8.05	Si
2.57	2X/2Y ø8/14.9	42.4	-237.73	SLV 4	196.76	320.21	1440.78	2.5	7.55	39.79	-237.73	SLV 10	196.76	320.21	1440.78	2.5	8.05	Si
2.86	2X/2Y ø8/14.9	42.4	-235.11	SLV 4	196.4	320.21	1440.41	2.5	7.55	39.79	-235.11	SLV 10	196.4	320.21	1440.41	2.5	8.05	Si
3.15	2X/2Y ø8/14.9	42.4	-232.54	SLV 4	196.04	320.21	1440.04	2.5	7.55	39.79	-232.54	SLV 10	196.04	320.21	1440.04	2.5	8.05	Si
3.75	2X/2Y ø8/14.9	-68.82	-105.57	SLV 3	178.36	320.21	1421.75	2.5	4.65	97.96	-105.57	SLV 7	178.36	320.21	1421.75	2.5	3.27	Si
4.04	2X/2Y ø8/14.9	-68.82	-103	SLV 3	178	320.21	1421.38	2.5	4.65	97.96	-103	SLV 7	178	320.21	1421.38	2.5	3.27	Si
4.32	2X/2Y ø8/14.9	-68.82	-100.44	SLV 3	177.64	320.21	1421.01	2.5	4.65	97.96	-100.44	SLV 7	177.64	320.21	1421.01	2.5	3.27	Si
4.61	2X/2Y ø8/14.9	-68.82	-97.87	SLV 3	177.29	320.21	1420.64	2.5	4.65	97.96	-97.87	SLV 7	177.29	320.21	1420.64	2.5	3.27	Si
4.89	2X/2Y ø8/14.9	-68.82	-95.31	SLV 3	176.93	320.21	1420.27	2.5	4.65	97.96	-95.31	SLV 7	176.93	320.21	1420.27	2.5	3.27	Si
5.18	2X/2Y ø8/14.9	-68.82	-92.74	SLV 3	176.57	320.21	1419.9	2.5	4.65	97.96	-92.74	SLV 7	176.57	320.21	1419.9	2.5	3.27	Si
5.46	2X/2Y ø8/14.9	-68.82	-90.18	SLV 3	176.22	320.21	1419.53	2.5	4.65	97.96	-90.18	SLV 7	176.22	320.21	1419.53	2.5	3.27	Si
5.75	2X/2Y ø8/9.4	-68.82	-87.61	SLV 3	175.86	507.94	1419.16	2.5	7.38	97.96	-87.61	SLV 7	175.86	507.94	1419.16	2.5	5.19	Si
6.03	2X/2Y ø8/9.4	-68.82	-85.05	SLV 3	175.5	507.94	1418.79	2.5	7.38	97.96	-85.05	SLV 7	175.5	507.94	1418.79	2.5	5.19	Si
6.32	2X/2Y ø8/9.4	-68.82	-82.48	SLV 3	175.14	507.94	1418.42	2.5	7.38	97.96	-82.48	SLV 7	175.14	507.94	1418.42	2.5	5.19	Si
6.6	2X/2Y ø8/9.4	-68.82	-79.96	SLV 3	174.79	507.94	1418.06	2.5	7.38	97.96	-79.96	SLV 7	174.79	507.94	1418.06	2.5	5.19	Si

1.1.8.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-5.95	-5.95	-0.975	X	1.616	0.179	0.6	0.0212	0.000038	0.00999	0	241.967	2156.943	482.372	192.949	523.398	523.398	-21.552	-562.357	SLV 13	Si
-5.95	-5.95	-0.975	Y	2.488	0.179	0.6	0.0212	0.000126	0.00999	0	241.967	2156.943	482.372	192.949	381.865	482.372	39.786	-562.358	SLV 10	Si

1.1.8.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/9.9	-14.55	-562.36	SLD 13	241.97	482.37	1487.55	2.5	33.15	17.84	-562.36	SLD 10	241.97	482.37	1487.55	2.5	27.03	Si
-5.9	2X/2Y ø8/9.9	-14.55	-561.86	SLD 13	241.9	482.37	1487.48	2.5	33.15	17.84	-561.86	SLD 10	241.9	482.37	1487.48	2.5	27.03	Si
-5.6	2X/2Y ø8/9.9	-14.55	-559.17	SLD 13	241.52	482.37	1487.09	2.5	33.15	17.84	-559.17	SLD 10	241.52	482.37	1487.09	2.5	27.03	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.29	2X/2Y ø8/9.9	-14.55	-556.42	SLD 13	241.14	482.37	1486.69	2.5	33.15	17.84	-556.42	SLD 10	241.14	482.37	1486.69	2.5	27.03	Si
-4.99	2X/2Y ø8/9.9	-14.55	-553.69	SLD 13	240.76	482.37	1486.3	2.5	33.15	17.84	-553.69	SLD 10	240.76	482.37	1486.3	2.5	27.03	Si
-4.68	2X/2Y ø8/9.9	-14.55	-550.94	SLD 13	240.38	482.37	1485.9	2.5	33.15	17.84	-550.94	SLD 10	240.38	482.37	1485.9	2.5	27.03	Si
-4.38	2X/2Y ø8/14.9	-14.55	-548.2	SLD 13	240	320.21	1485.51	2.5	22.01	17.84	-548.2	SLD 10	240	320.21	1485.51	2.5	17.94	Si
-4.07	2X/2Y ø8/14.9	-14.55	-545.45	SLD 13	239.61	320.21	1485.11	2.5	22.01	17.84	-545.46	SLD 10	239.61	320.21	1485.11	2.5	17.94	Si
-3.77	2X/2Y ø8/14.9	-14.55	-542.71	SLD 13	239.23	320.21	1484.72	2.5	22.01	17.84	-542.71	SLD 10	239.23	320.21	1484.72	2.5	17.94	Si
-3.46	2X/2Y ø8/14.9	-14.55	-539.97	SLD 13	238.85	320.21	1484.32	2.5	22.01	17.84	-539.97	SLD 10	238.85	320.21	1484.32	2.5	17.94	Si
-3.16	2X/2Y ø8/14.9	-14.55	-537.23	SLD 13	238.47	320.21	1483.93	2.5	22.01	17.84	-537.23	SLD 10	238.47	320.21	1483.93	2.5	17.94	Si
-2.85	2X/2Y ø8/14.9	-14.55	-534.49	SLD 13	238.09	320.21	1483.53	2.5	22.01	17.84	-534.49	SLD 10	238.09	320.21	1483.53	2.5	17.94	Si
-2.55	2X/2Y ø8/14.9	-14.55	-531.74	SLD 13	237.7	320.21	1483.14	2.5	22.01	17.84	-531.74	SLD 10	237.7	320.21	1483.14	2.5	17.94	Si
-2.24	2X/2Y ø8/14.9	-14.55	-529	SLD 13	237.32	320.21	1482.74	2.5	22.01	17.84	-529	SLD 10	237.32	320.21	1482.74	2.5	17.94	Si
-1.94	2X/2Y ø8/14.9	-14.55	-526.25	SLD 13	236.94	320.21	1482.35	2.5	22.01	17.84	-526.25	SLD 10	236.94	320.21	1482.35	2.5	17.94	Si
-1.63	2X/2Y ø8/14.9	-14.55	-523.52	SLD 13	236.56	320.21	1481.95	2.5	22.01	17.84	-523.52	SLD 10	236.56	320.21	1481.95	2.5	17.94	Si
-1.33	2X/2Y ø8/14.9	-14.55	-520.78	SLD 13	236.18	320.21	1481.56	2.5	22.01	17.84	-520.78	SLD 10	236.18	320.21	1481.56	2.5	17.94	Si
-1.14	2X/2Y ø8/14.9	-14.55	-519.03	SLD 13	235.93	320.21	1481.31	2.5	22.01	17.84	-519.03	SLD 10	235.93	320.21	1481.31	2.5	17.94	Si
-1.03	2X/2Y ø8/14.9	-14.55	-518.08	SLD 13	235.8	320.21	1481.17	2.5	22.01	17.84	-518.08	SLD 10	235.8	320.21	1481.17	2.5	17.94	Si
-0.98	2X/2Y ø8/14.9	20.11	-269.62	SLD 4	201.2	320.21	1445.38	2.5	15.93	17.84	-269.62	SLD 10	201.2	320.21	1445.38	2.5	17.94	Si
-0.93	2X/2Y ø8/14.9	20.11	-269.12	SLD 4	201.13	320.21	1445.31	2.5	15.93	17.84	-269.12	SLD 10	201.13	320.21	1445.31	2.5	17.94	Si
-0.63	2X/2Y ø8/14.9	20.11	-266.55	SLD 4	200.78	320.21	1444.94	2.5	15.93	17.84	-266.55	SLD 10	200.78	320.21	1444.94	2.5	17.94	Si
-0.34	2X/2Y ø8/14.9	20.11	-263.93	SLD 4	200.41	320.21	1444.56	2.5	15.93	17.84	-263.93	SLD 10	200.41	320.21	1444.56	2.5	17.94	Si
-0.05	2X/2Y ø8/14.9	20.11	-261.31	SLD 4	200.05	320.21	1444.18	2.5	15.93	17.84	-261.31	SLD 10	200.05	320.21	1444.18	2.5	17.94	Si
0.24	2X/2Y ø8/14.9	20.11	-258.69	SLD 4	199.68	320.21	1443.8	2.5	15.93	17.84	-258.69	SLD 10	199.68	320.21	1443.8	2.5	17.94	Si
0.53	2X/2Y ø8/14.9	20.11	-256.07	SLD 4	199.32	320.21	1443.43	2.5	15.93	17.84	-256.07	SLD 10	199.32	320.21	1443.43	2.5	17.94	Si
0.82	2X/2Y ø8/14.9	20.11	-253.45	SLD 4	198.95	320.21	1443.05	2.5	15.93	17.84	-253.45	SLD 10	198.95	320.21	1443.05	2.5	17.94	Si
1.11	2X/2Y ø8/14.9	20.11	-250.83	SLD 4	198.59	320.21	1442.67	2.5	15.93	17.84	-250.83	SLD 10	198.59	320.21	1442.67	2.5	17.94	Si
1.4	2X/2Y ø8/14.9	20.11	-248.21	SLD 4	198.22	320.21	1442.29	2.5	15.93	17.84	-248.21	SLD 10	198.22	320.21	1442.29	2.5	17.94	Si
1.69	2X/2Y ø8/14.9	20.11	-245.59	SLD 4	197.86	320.21	1441.92	2.5	15.93	17.84	-245.59	SLD 10	197.86	320.21	1441.92	2.5	17.94	Si
1.99	2X/2Y ø8/14.9	20.11	-242.97	SLD 4	197.49	320.21	1441.54	2.5	15.93	17.84	-242.97	SLD 10	197.49	320.21	1441.54	2.5	17.94	Si
2.28	2X/2Y ø8/14.9	20.11	-240.35	SLD 4	197.13	320.21	1441.16	2.5	15.93	17.84	-240.35	SLD 10	197.13	320.21	1441.16	2.5	17.94	Si
2.57	2X/2Y ø8/14.9	20.11	-237.73	SLD 4	196.76	320.21	1440.78	2.5	15.93	17.84	-237.73	SLD 10	196.76	320.21	1440.78	2.5	17.94	Si
2.86	2X/2Y ø8/14.9	20.11	-235.11	SLD 4	196.4	320.21	1440.41	2.5	15.93	17.84	-235.11	SLD 10	196.4	320.21	1440.41	2.5	17.94	Si
3.15	2X/2Y ø8/14.9	20.11	-232.54	SLD 4	196.04	320.21	1440.04	2.5	15.93	17.84	-232.54	SLD 10	196.04	320.21	1440.04	2.5	17.94	Si
3.75	2X/2Y ø8/14.9	-29.71	-105.57	SLD 3	178.36	320.21	1421.75	2.5	10.78	42.01	-105.57	SLD 7	178.36	320.21	1421.75	2.5	7.62	Si
4.04	2X/2Y ø8/14.9	-29.71	-103	SLD 3	178	320.21	1421.38	2.5	10.78	42.01	-103	SLD 7	178	320.21	1421.38	2.5	7.62	Si
4.32	2X/2Y ø8/14.9	-29.71	-100.44	SLD 3	177.64	320.21	1421.01	2.5	10.78	42.01	-100.44	SLD 7	177.64	320.21	1421.01	2.5	7.62	Si
4.61	2X/2Y ø8/14.9	-29.71	-97.87	SLD 3	177.29	320.21	1420.64	2.5	10.78	42.01	-97.87	SLD 7	177.29	320.21	1420.64	2.5	7.62	Si
4.89	2X/2Y ø8/14.9	-29.71	-95.31	SLD 3	176.93	320.21	1420.27	2.5	10.78	42.01	-95.31	SLD 7	176.93	320.21	1420.27	2.5	7.62	Si
5.18	2X/2Y ø8/14.9	-29.71	-92.74	SLD 3	176.57	320.21	1419.9	2.5	10.78	42.01	-92.74	SLD 7	176.57	320.21	1419.9	2.5	7.62	Si
5.46	2X/2Y ø8/14.9	-29.71	-90.18	SLD 3	176.22	320.21	1419.53	2.5	10.78	42.01	-90.18	SLD 7	176.22	320.21	1419.53	2.5	7.62	Si
5.75	2X/2Y ø8/9.4	-29.71	-87.61	SLD 3	175.86	507.94	1419.16	2.5	17.1	42.01	-87.61	SLD 7	175.86	507.94	1419.16	2.5	12.09	Si
6.03	2X/2Y ø8/9.4	-29.71	-85.05	SLD 3	175.5	507.94	1418.79	2.5	17.1	42.01	-85.05	SLD 7	175.5	507.94	1418.79	2.5	12.09	Si
6.32	2X/2Y ø8/9.4	-29.71	-82.48	SLD 3	175.14	507.94	1418.42	2.5	17.1	42.01	-82.48	SLD 7	175.14	507.94	1418.42	2.5	12.09	Si
6.6	2X/2Y ø8/9.4	-29.71	-79.96	SLD 3	174.79	507.94	1418.06	2.5	17.1	42.01	-79.96	SLD 7	174.79	507.94	1418.06	2.5	12.09	Si

1.1.8.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-5.9	12.514	1961	1.347	0.368	1.298	SLV 9	Si
-5.6	12.514	1961	1.347	0.368	1.298	SLV 9	Si
-5.29	12.514	1961	1.347	0.368	1.298	SLV 9	Si
-4.99	12.514	1961	1.347	0.368	1.298	SLV 9	Si
-4.68	12.514	1961	1.347	0.368	1.298	SLV 9	Si
-4.38	8.295	1961	1.347	0.368	1.298	SLV 9	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-4.07	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-3.77	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-3.46	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-3.16	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-2.85	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-2.55	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-2.24	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-1.94	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-1.63	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-1.33	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-1.14	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-1.03	8.295	1961	1.347	0.368	1.298	SLV 9	Si
-0.98	8.119	1961	1.347	0.368	1.298	SLV 4	Si
-0.93	8.119	1961	1.347	0.368	1.298	SLV 4	Si
-0.63	8.119	1961	1.347	0.368	1.298	SLV 4	Si
-0.34	8.119	1961	1.347	0.368	1.298	SLV 4	Si
-0.05	8.119	1961	1.347	0.368	1.298	SLV 4	Si
0.24	8.119	1961	1.347	0.368	1.298	SLV 4	Si
0.53	8.119	1961	1.347	0.368	1.298	SLV 4	Si
0.82	8.119	1961	1.347	0.368	1.298	SLV 4	Si
1.11	8.119	1961	1.347	0.368	1.298	SLV 4	Si
1.4	8.119	1961	1.347	0.368	1.298	SLV 4	Si
1.69	8.119	1961	1.347	0.368	1.298	SLV 4	Si
1.99	8.119	1961	1.347	0.368	1.298	SLV 4	Si
2.28	8.119	1961	1.347	0.368	1.298	SLV 4	Si
2.57	8.119	1961	1.347	0.368	1.298	SLV 4	Si
2.86	8.119	1961	1.347	0.368	1.298	SLV 4	Si
3.15	8.119	1961	1.347	0.368	1.298	SLV 4	Si
3.75	3.268	1961	1.347	0.368	1.298	SLV 7	Si
4.04	3.268	1961	1.347	0.368	1.298	SLV 7	Si
4.32	3.268	1961	1.347	0.368	1.298	SLV 7	Si
4.61	3.268	1961	1.347	0.368	1.298	SLV 7	Si
4.89	3.268	1961	1.347	0.368	1.298	SLV 7	Si
5.18	3.268	1961	1.347	0.368	1.298	SLV 7	Si
5.46	3.268	1961	1.347	0.368	1.298	SLV 7	Si
5.75	5.184	1961	1.347	0.368	1.298	SLV 7	Si
6.03	5.184	1961	1.347	0.368	1.298	SLV 7	Si
6.32	5.184	1961	1.347	0.368	1.298	SLV 7	Si
6.6	5.184	1961	1.347	0.368	1.298	SLV 7	Si

1.1.8.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-5.95	29.154	1961	3.374	0.368	3.05	SLD 9	Si
-5.9	29.154	1961	3.374	0.368	3.05	SLD 9	Si
-5.6	29.154	1961	3.374	0.368	3.05	SLD 9	Si
-5.29	29.154	1961	3.374	0.368	3.05	SLD 9	Si
-4.99	29.154	1961	3.374	0.368	3.05	SLD 9	Si
-4.68	29.154	1961	3.374	0.368	3.05	SLD 9	Si
-4.38	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-4.07	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-3.77	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-3.46	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-3.16	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-2.85	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-2.55	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-2.24	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-1.94	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-1.63	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-1.33	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-1.14	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-1.03	19.346	1961	3.374	0.368	3.05	SLD 9	Si
-0.98	18.922	1961	3.374	0.368	3.05	SLD 4	Si
-0.93	18.922	1961	3.374	0.368	3.05	SLD 4	Si
-0.63	18.922	1961	3.374	0.368	3.05	SLD 4	Si
-0.34	18.922	1961	3.374	0.368	3.05	SLD 4	Si
-0.05	18.922	1961	3.374	0.368	3.05	SLD 4	Si
0.24	18.922	1961	3.374	0.368	3.05	SLD 4	Si
0.53	18.922	1961	3.374	0.368	3.05	SLD 4	Si
0.82	18.922	1961	3.374	0.368	3.05	SLD 4	Si
1.11	18.922	1961	3.374	0.368	3.05	SLD 4	Si
1.4	18.922	1961	3.374	0.368	3.05	SLD 4	Si
1.69	18.922	1961	3.374	0.368	3.05	SLD 4	Si
1.99	18.922	1961	3.374	0.368	3.05	SLD 4	Si
2.28	18.922	1961	3.374	0.368	3.05	SLD 4	Si
2.57	18.922	1961	3.374	0.368	3.05	SLD 4	Si
2.86	18.922	1961	3.374	0.368	3.05	SLD 4	Si
3.15	18.922	1961	3.374	0.368	3.05	SLD 4	Si
3.75	7.631	1961	3.374	0.368	3.05	SLD 7	Si
4.04	7.631	1961	3.374	0.368	3.05	SLD 7	Si
4.32	7.631	1961	3.374	0.368	3.05	SLD 7	Si
4.61	7.631	1961	3.374	0.368	3.05	SLD 7	Si
4.89	7.631	1961	3.374	0.368	3.05	SLD 7	Si
5.18	7.631	1961	3.374	0.368	3.05	SLD 7	Si
5.46	7.631	1961	3.374	0.368	3.05	SLD 7	Si
5.75	12.104	1961	3.374	0.368	3.05	SLD 7	Si
6.03	12.104	1961	3.374	0.368	3.05	SLD 7	Si
6.32	12.104	1961	3.374	0.368	3.05	SLD 7	Si
6.6	12.104	1961	3.374	0.368	3.05	SLD 7	Si

1.1.8.4 Verifiche nodi trave colonna

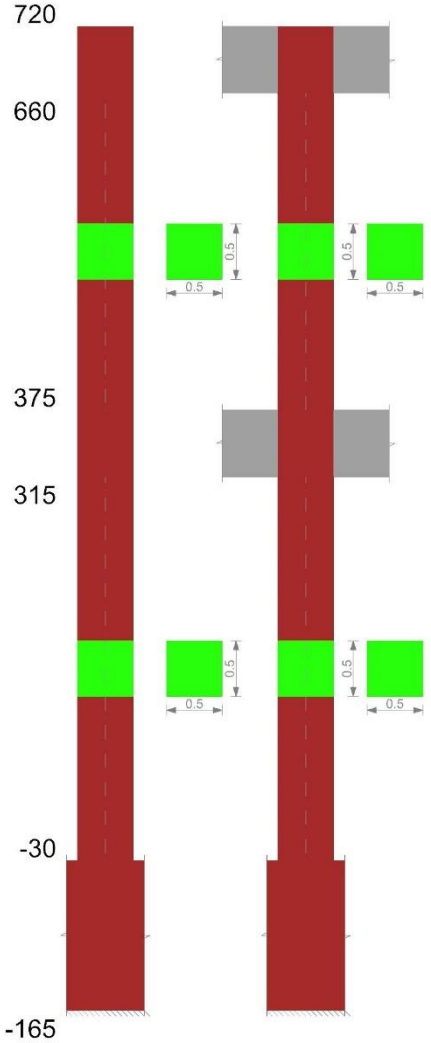
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.8.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.9 P13

Geometria



1.1.9.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.9.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	3.15	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2
3.75	6.6	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2 FC = 1,2	1.2

1.1.9.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2031	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2031	-0.1631	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2031	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2031	-0.1631	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.1631	-0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	0.2031	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.2031	0.1631	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2031	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.2031	0.1631	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.1	-0.1631	0.2031	0.026	0.0005309	-1.65	-0.3	R 50x50	Armature LC2
p.2	-0.2031	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2031	-0.1631	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2031	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2031	-0.1631	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.1631	-0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2031	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.2031	0.1631	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2031	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.2031	0.1631	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.2	-0.1631	0.2031	0.026	0.0005309	-0.299	3.75	R 50x50	Armature LC2
p.3	-0.2031	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2031	-0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	-0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.1631	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2031	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2031	0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.1631	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.4	-0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.4	0.207	0	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.5	-0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.5	0.207	0	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.6	-0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.6	0.207	0	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.4	0	-0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.4	0	0.207	0.02	0.0003142	-1.65	-0.3	R 50x50	Armature LC2
p.5	0	-0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.5	0	0.207	0.02	0.0003142	-0.299	3.75	R 50x50	Armature LC2
p.6	0	-0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2
p.6	0	0.207	0.02	0.0003142	3.751	7.2	R 50x50	Armature LC2

1.1.9.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.9.3 Verifiche delle sezioni

1.1.9.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007628	6.1	0	1,2,4,5	-7.0071	-19.6139	-705.37	-82.6207	-231.2664	SLU 18	11.791	Si
-0.01	0.007628	6.1	0	1,2,4,5	-6.4777	-18.3014	-703.08	-76.6272	-216.495	SLU 18	11.829	Si
0.28	0.007628	6.1	0	1,2,4,5	-5.9389	-16.9657	-700.74	-70.4874	-201.3628	SLU 18	11.869	Si
0.56	0.007628	5.6	0	1,2,5	-5.4	-15.6299	-698.41	-64.3066	-186.1293	SLU 18	11.909	Si
0.85	0.007628	5.6	0	1,2,5	-4.8612	-14.2941	-696.07	-58.0842	-170.7936	SLU 18	11.949	Si
1.14	0.007628	3.1	0	2,5	-4.3224	-12.9584	-693.73	-51.8199	-155.3547	SLU 18	11.989	Si
1.43	0.007628	3.1	0	2,5	-3.7836	-11.6226	-691.4	-45.5134	-139.8114	SLU 18	12.029	Si
1.71	0.007628	3.1	0	2,5	-3.2447	-10.2869	-689.06	-39.164	-124.1627	SLU 18	12.07	Si
2	0.007628	3.1	0	2,5	-2.7059	-8.9511	-686.73	-32.7715	-108.4076	SLU 18	12.111	Si
2.29	0.007628	3.1	0	2,5	-2.1671	-7.6154	-684.39	-26.3353	-92.545	SLU 18	12.152	Si
2.58	0.007628	3.1	0	2,5	-1.6283	-6.2796	-682.05	-19.855	-76.5736	SLU 18	12.194	Si
2.86	0.007628	3.1	0	2,5	-1.0894	-4.9438	-679.72	-13.3302	-60.4925	SLU 18	12.236	Si
3.15	0.007628	3.1	0	2,5	-0.56	-3.6313	-677.42	-6.875	-44.5831	SLU 18	12.277	Si
3.75	0.007628	6.1	0	2,3,5,6	0.0227	-1.7723	-301.65	0.6261	-48.8645	SLU 17	27.572	Si
4.04	0.007628	6.1	0	2,3,5,6	0.0205	-1.5798	-299.33	0.5689	-43.8961	SLU 17	27.785	Si
4.32	0.007628	6.1	0	2,3,5,6	0.0182	-1.3874	-297.02	0.5109	-38.8502	SLU 17	28.002	Si
4.61	0.007628	5.6	0	2,3,6	0.016	-1.195	-294.7	0.4519	-33.7251	SLU 17	28.222	Si
4.89	0.007628	5.6	0	2,3,6	0.0138	-1.0026	-292.39	0.392	-28.5187	SLU 17	28.445	Si
5.18	0.007628	3.1	0	3,6	0.0115	-0.8102	-290.07	0.3312	-23.2293	SLU 17	28.672	Si
5.46	0.007628	3.1	0	3,6	0.0093	-0.6177	-287.75	0.2693	-17.8547	SLU 17	28.903	Si
5.75	0.007628	3.1	0	3,6	0.0071	-0.4253	-285.44	0.2065	-12.3929	SLU 17	29.138	Si
6.03	0.007628	3.1	0	3,6	0.0049	-0.2329	-283.12	0.1426	-6.8418	SLU 17	29.376	Si
6.32	0.008475	5.6	0	3,6	0.0026	-0.0405	-280.81	0.0807	-1.2454	SLU 17	30.763	Si
6.6	0.009504	5.6	0	3,6	0.0004	0.1486	-278.53	0.014	4.8155	SLU 17	32.415	Si

1.1.9.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007628	6.1	0	1,2,4,5	17.5078	-96.362	-448.07	195.1585	-1074.1436	SLV 14	11.147				Si
-0.01	0.007628	6.1	0	1,2,4,5	-8.0046	-111.22	-446.33	-82.7039	-1149.1308	SLV 16	10.332				Si
0.28	0.007628	6.1	0	1,2,4,5	-13.0182	-134.943	-444.54	-109.2602	-1132.5612	SLV 16	8.393				Si
0.56	0.007628	5.6	0	1,2,5	-16.7863	-166.4508	-442.74	-108.9426	-1080.2578	SLV 16	6.49				Si
0.85	0.007628	5.6	0	1,2,5	-18.6651	-201.8596	-440.94	-94.4844	-1021.831	SLV 16	5.062				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
1.14	0.007628	3.1	0	2,5	-19.4405	-239.3197	-439.15	-78.9752	-972.2141	SLV 16	4.062				Si
1.43	0.007628	3.1	0	2,5	-25.607	-277.9491	-437.35	-85.3259	-926.1639	SLV 16	3.332				Si
1.71	0.007628	3.1	0	2,5	-51.97	-317.2966	-435.55	-143.4255	-875.6678	SLV 16	2.76				Si
2	0.007628	3.1	0	2,5	-59.0672	-357.1131	-433.76	-140.9573	-852.2104	SLV 16	2.386				Si
2.29	0.007628	3.1	0	2,5	-66.2411	-397.2514	-431.96	-138.5463	-830.8694	SLV 16	2.092				Si
2.58	0.007628	3.1	0	2,5	-73.4647	-437.6193	-430.16	-136.6134	-813.788	SLV 16	1.86				Si
2.86	0.007628	3.1	0	2,5	-80.7227	-478.1567	-428.37	-135.0312	-799.8508	SLV 16	1.673				Si
3.15	0.007628	3.1	0	2,5	-87.8787	-510.1126	-426.6	-136.1203	-790.1421	SLV 16	1.549				Si
3.75	0.007628	6.1	0	2,3,5,6	19.2552	-540.5485	-173.27	25.7367	-722.5035	SLV 13	1.337				Si
4.04	0.007628	6.1	0	2,3,5,6	17.3628	-486.9018	-171.49	25.9239	-726.978	SLV 13	1.493				Si
4.32	0.007628	6.1	0	2,3,5,6	15.4705	-433.2552	-169.71	26.1608	-732.6387	SLV 13	1.691				Si
4.61	0.007628	5.6	0	2,3,6	13.5782	-379.6086	-167.93	26.4701	-740.0292	SLV 13	1.949				Si
4.89	0.007628	5.6	0	2,3,6	11.6859	-325.962	-166.14	26.8906	-750.0781	SLV 13	2.301				Si
5.18	0.007628	3.1	0	3,6	9.7936	-272.3156	-164.36	27.4963	-764.5499	SLV 13	2.808				Si
5.46	0.007628	3.1	0	3,6	7.9013	-218.6693	-162.58	28.443	-787.1687	SLV 13	3.6				Si
5.75	0.007628	3.1	0	3,6	6.0089	-165.0234	-160.8	30.0705	-825.8263	SLV 13	5.004				Si
6.03	0.007628	3.1	0	3,6	4.1166	-111.3783	-159.02	33.5995	-909.06	SLV 13	8.162				Si
6.32	0.008475	5.6	0	3,6	-10.6085	-54.8256	-157.26	-213.7275	-1104.5626	SLV 16	20.147				Si
6.6	0.009504	5.6	0	3,6	-0.3759	5.3506	-155.06	-28.9747	412.4845	SLV 4	77.091				Si

1.1.9.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007628	6.1	0	1,2,4,5	-3.7922	-50.2563	-447.86	-67.2178	-890.797	SLD 16	17.725	Si
-0.01	0.007628	6.1	0	1,2,4,5	-5.7026	-53.8668	-446.09	-97.2122	-918.2678	SLD 16	17.047	Si
0.28	0.007628	6.1	0	1,2,4,5	-7.6948	-63.5609	-444.3	-118.7299	-980.7427	SLD 16	15.43	Si
0.56	0.007628	5.6	0	1,2,5	-9.1535	-76.5892	-442.5	-124.7462	-1043.775	SLD 16	13.628	Si
0.85	0.007628	5.6	0	1,2,5	-9.7829	-91.2891	-440.7	-117.7264	-1098.5676	SLD 16	12.034	Si
1.14	0.007628	3.1	0	2,5	-9.9254	-106.8679	-438.91	-105.5135	-1136.0798	SLD 16	10.631	Si
1.43	0.007628	3.1	0	2,5	-12.3947	-122.9479	-437.11	-114.7333	-1138.0862	SLD 16	9.257	Si
1.71	0.007628	3.1	0	2,5	-23.5959	-139.3355	-435.31	-182.456	-1077.4148	SLD 16	7.733	Si
2	0.007628	3.1	0	2,5	-26.4869	-155.9241	-433.51	-179.185	-1054.834	SLD 16	6.765	Si
2.29	0.007628	3.1	0	2,5	-29.4111	-172.6506	-431.72	-175.4435	-1029.8984	SLD 16	5.965	Si
2.58	0.007628	3.1	0	2,5	-32.3569	-189.4755	-429.92	-171.087	-1001.8524	SLD 16	5.288	Si
2.86	0.007628	3.1	0	2,5	-35.3176	-206.3729	-428.12	-167.0876	-976.3514	SLD 16	4.731	Si
3.15	0.007628	3.1	0	2,5	-38.2373	-219.6004	-426.36	-166.47	-956.052	SLD 16	4.354	Si
3.75	0.007628	6.1	0	2,3,5,6	7.9123	-232.007	-173.15	26.8657	-787.7612	SLD 13	3.395	Si
4.04	0.007628	6.1	0	2,3,5,6	7.1347	-208.9757	-171.37	27.3114	-799.9478	SLD 13	3.828	Si
4.32	0.007628	6.1	0	2,3,5,6	6.3572	-185.9444	-169.59	27.877	-815.3918	SLD 13	4.385	Si
4.61	0.007628	5.6	0	2,3,6	5.5796	-162.9132	-167.8	28.6151	-835.5101	SLD 13	5.129	Si
4.89	0.007628	5.6	0	2,3,6	4.802	-139.8819	-166.02	29.6379	-863.3539	SLD 13	6.172	Si
5.18	0.007628	3.1	0	3,6	4.0244	-116.8507	-164.24	31.1681	-904.9882	SLD 13	7.745	Si
5.46	0.007628	3.1	0	3,6	3.2468	-93.8196	-162.46	33.3968	-965.0374	SLD 13	10.286	Si
5.75	0.007628	3.1	0	3,6	2.4692	-70.7886	-160.68	36.743	-1053.3743	SLD 13	14.881	Si
6.03	0.007628	3.1	0	3,6	-8.4873	-45.3541	-158.91	-201.5353	-1076.9603	SLD 16	23.746	Si
6.32	0.008475	5.6	0	3,6	-4.5859	-23.4806	-157.13	-196.5285	-1006.268	SLD 16	42.855	Si
6.6	0.009504	5.6	0	3,6	-0.7529	-1.9145	-155.38	-58.4024	-148.5108	SLD 16	77.57	Si

1.1.9.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	8.354	1961	1.347	0.368	1.298	SLV 16	Si
-0.01	7.494	1961	1.347	0.368	1.298	SLV 16	Si
0.28	6.004	1961	1.347	0.368	1.298	SLV 16	Si
0.56	4.773	1961	1.347	0.368	1.298	SLV 16	Si
0.85	3.883	1961	1.347	0.368	1.298	SLV 16	Si
1.14	3.244	1961	1.347	0.368	1.298	SLV 16	Si
1.43	2.77	1961	1.347	0.368	1.298	SLV 16	Si
1.71	2.4	1961	1.347	0.368	1.298	SLV 16	Si
2	2.125	1961	1.347	0.368	1.298	SLV 16	Si
2.29	1.902	1961	1.347	0.368	1.298	SLV 16	Si
2.58	1.723	1961	1.347	0.368	1.298	SLV 16	Si
2.86	1.574	1961	1.347	0.368	1.298	SLV 16	Si
3.15	1.473	1961	1.347	0.368	1.298	SLV 16	Si
3.75	1.316	1961	1.347	0.368	1.298	SLV 13	Si
4.04	1.461	1961	1.347	0.368	1.298	SLV 13	Si
4.32	1.643	1961	1.347	0.368	1.298	SLV 13	Si
4.61	1.875	1961	1.347	0.368	1.298	SLV 13	Si
4.89	2.184	1961	1.347	0.368	1.298	SLV 4	Si
5.18	2.611	1961	1.347	0.368	1.298	SLV 13	Si
5.46	3.25	1961	1.347	0.368	1.298	SLV 4	Si
5.75	4.309	1961	1.347	0.368	1.298	SLV 3	Si
6.03	6.373	1961	1.347	0.368	1.298	SLV 3	Si
6.32	13.393	1961	1.347	0.368	1.298	SLV 4	Si
6.6	160.126	1961	1.347	0.368	1.298	SLV 4	Si

1.1.9.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	19.527	1961	3.374	0.368	3.05	SLD 16	Si
-0.01	17.499	1961	3.374	0.368	3.05	SLD 16	Si
0.28	14.037	1961	3.374	0.368	3.05	SLD 16	Si
0.56	11.151	1961	3.374	0.368	3.05	SLD 16	Si
0.85	9.071	1961	3.374	0.368	3.05	SLD 16	Si
1.14	7.576	1961	3.374	0.368	3.05	SLD 16	Si
1.43	6.469	1961	3.374	0.368	3.05	SLD 16	Si
1.71	5.607	1961	3.374	0.368	3.05	SLD 16	Si
2	4.965	1961	3.374	0.368	3.05	SLD 16	Si
2.29	4.445	1961	3.374	0.368	3.05	SLD 16	Si
2.58	4.028	1961	3.374	0.368	3.05	SLD 16	Si
2.86	3.678	1961	3.374	0.368	3.05	SLD 16	Si
3.15	3.443	1961	3.374	0.368	3.05	SLD 15	Si
3.75	3.08	1961	3.374	0.368	3.05	SLD 13	Si
4.04	3.414	1961	3.374	0.368	3.05	SLD 13	Si
4.32	3.836	1961	3.374	0.368	3.05	SLD 13	Si
4.61	4.377	1961	3.374	0.368	3.05	SLD 13	Si
4.89	5.102	1961	3.374	0.368	3.05	SLD 4	Si
5.18	6.1	1961	3.374	0.368	3.05	SLD 13	Si
5.46	7.59	1961	3.374	0.368	3.05	SLD 13	Si
5.75	10.053	1961	3.374	0.368	3.05	SLD 4	Si
6.03	14.887	1961	3.374	0.368	3.05	SLD 3	Si
6.32	31.334	1961	3.374	0.368	3.05	SLD 3	Si
6.6	374.27	1961	3.374	0.368	3.05	SLD 3	Si

1.1.9.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	4.86	-550.69	SLU 7	194	391.99	1039.78	2.5	80.67	2.19	-625.9	SLU 15	204.31	391.99	1050.45	2.5	178.6	Si
-0.01	2X/2Y ø8/10	4.86	-548.93	SLU 7	193.76	391.99	1039.53	2.5	80.67	2.19	-623.61	SLU 15	204	391.99	1050.13	2.5	178.6	Si
0.28	2X/2Y ø8/10	4.86	-547.13	SLU 7	193.51	391.99	1039.28	2.5	80.67	2.19	-621.27	SLU 15	203.68	391.99	1049.8	2.5	178.6	Si
0.56	2X/2Y ø8/14.9	4.86	-545.33	SLU 7	193.27	263.77	1039.02	2.5	54.29	2.19	-618.94	SLU 15	203.36	263.77	1049.46	2.5	120.18	Si
0.85	2X/2Y ø8/14.9	4.86	-543.54	SLU 7	193.02	263.77	1038.77	2.5	54.29	2.19	-616.6	SLU 15	203.04	263.77	1049.13	2.5	120.18	Si
1.14	2X/2Y ø8/14.9	4.86	-541.74	SLU 7	192.77	263.77	1038.52	2.5	54.29	2.19	-614.26	SLU 15	202.72	263.77	1048.8	2.5	120.18	Si
1.43	2X/2Y ø8/14.9	4.86	-539.94	SLU 7	192.53	263.77	1038.26	2.5	54.29	2.19	-611.93	SLU 15	202.4	263.77	1048.47	2.5	120.18	Si
1.71	2X/2Y ø8/14.9	4.86	-538.15	SLU 7	192.28	263.77	1038.01	2.5	54.29	2.19	-609.59	SLU 15	202.08	263.77	1048.14	2.5	120.18	Si
2	2X/2Y ø8/14.9	4.86	-536.35	SLU 7	192.03	263.77	1037.75	2.5	54.29	2.19	-607.26	SLU 15	201.76	263.77	1047.81	2.5	120.18	Si
2.29	2X/2Y ø8/14.9	4.86	-534.55	SLU 7	191.79	263.77	1037.5	2.5	54.29	2.19	-604.92	SLU 15	201.44	263.77	1047.48	2.5	120.18	Si
2.58	2X/2Y ø8/14.9	4.86	-532.75	SLU 7	191.54	263.77	1037.24	2.5	54.29	2.19	-602.59	SLU 15	201.12	263.77	1047.14	2.5	120.18	Si
2.86	2X/2Y ø8/14.9	4.86	-530.96	SLU 7	191.3	263.77	1036.99	2.5	54.29	2.19	-600.25	SLU 15	200.8	263.77	1046.81	2.5	120.18	Si
3.15	2X/2Y ø8/14.9	4.86	-529.19	SLU 7	191.05	263.77	1036.74	2.5	54.29	2.19	-597.95	SLU 15	200.48	263.77	1046.49	2.5	120.18	Si
3.75	2X/2Y ø8/14.9	0.68	-301.65	SLU 18	159.86	263.77	1004.46	2.5	386.85	0	-236.85	SLU 2	150.97	263.77	995.27	2.5	1000	Si
4.04	2X/2Y ø8/14.9	0.68	-299.33	SLU 18	159.54	263.77	1004.14	2.5	386.85	0	-235.07	SLU 2	150.73	263.77	995.02	2.5	1000	Si
4.32	2X/2Y ø8/14.9	0.68	-297.02	SLU 18	159.22	263.77	1003.81	2.5	386.85	0	-233.29	SLU 2	150.49	263.77	994.77	2.5	1000	Si
4.61	2X/2Y ø8/14.9	0.68	-294.7	SLU 18	158.9	263.77	1003.48	2.5	386.85	0	-231.51	SLU 2	150.24	263.77	994.52	2.5	1000	Si
4.89	2X/2Y ø8/14.9	0.68	-292.38	SLU 18	158.59	263.77	1003.15	2.5	386.85	0	-229.73	SLU 2	150	263.77	994.26	2.5	1000	Si
5.18	2X/2Y ø8/14.9	0.68	-290.07	SLU 18	158.27	263.77	1002.82	2.5	386.85	0	-227.95	SLU 2	149.75	263.77	994.01	2.5	1000	Si
5.46	2X/2Y ø8/14.9	0.68	-287.75	SLU 18	157.95	263.77	1002.49	2.5	386.85	0	-226.17	SLU 2	149.51	263.77	993.76	2.5	1000	Si
5.75	2X/2Y ø8/10	0.68	-285.44	SLU 18	157.63	391.99	1002.16	2.5	574.9	0	-224.39	SLU 2	149.26	391.99	993.51	2.5	1000	Si
6.03	2X/2Y ø8/10	0.68	-283.12	SLU 18	157.32	391.99	1001.84	2.5	574.9	0	-222.6	SLU 2	149.02	391.99	993.25	2.5	1000	Si
6.32	2X/2Y ø8/10	0.68	-280.81	SLU 18	157	391.99	1001.51	2.5	574.9	0	-220.82	SLU 2	148.78	391.99	993	2.5	1000	Si
6.6	2X/2Y ø8/10	0.68	-278.53	SLU 18	156.69	391.99	1001.19	2.5	574.9	0	-219.07	SLU 2	148.54	391.99	992.75	2.5	1000	Si

1.1.9.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	150.25	-447.3	SLV 4	179.83	391.99	1025.12	2.5	2.61	51.98	-447.5	SLV 5	179.85	391.99	1025.15	2.5	7.54	Si
-0.01	2X/2Y ø8/10	150.25	-445.53	SLV 4	179.58	391.99	1024.87	2.5	2.61	51.98	-445.74	SLV 5	179.61	391.99	1024.9	2.5	7.54	Si
0.28	2X/2Y ø8/10	150.25	-443.74	SLV 4	179.34	391.99	1024.62	2.5	2.61	51.98	-443.94	SLV 5	179.37	391.99	1024.64	2.5	7.54	Si
0.56	2X/2Y ø8/14.9	150.25	-441.94	SLV 4	179.09	263.77	1024.36	2.5	1.76	51.98	-442.14	SLV 5	179.12	263.77	1024.39	2.5	5.07	Si
0.85	2X/2Y ø8/14.9	150.25	-440.14	SLV 4	178.84	263.77	1024.11	2.5	1.76	51.98	-440.35	SLV 5	178.87	263.77	1024.14	2.5	5.07	Si
1.14	2X/2Y ø8/14.9	150.25	-438.34	SLV 4	178.6	263.77	1023.85	2.5	1.76	51.98	-438.55	SLV 5	178.63	263.77	1023.88	2.5	5.07	Si
1.43	2X/2Y ø8/14.9	150.25	-436.55	SLV 4	178.35	263.77	1023.6	2.5	1.76	51.98	-436.75	SLV 5	178.38	263.77	1023.63	2.5	5.07	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
1.71	2X/2Y ø8/14.9	150.25	-434.75	SLV 4	178.11	263.77	1023.34	2.5	1.76	51.98	-434.96	SLV 5	178.13	263.77	1023.37	2.5	5.07	Si
2	2X/2Y ø8/14.9	150.25	-432.95	SLV 4	177.86	263.77	1023.09	2.5	1.76	51.98	-433.16	SLV 5	177.89	263.77	1023.12	2.5	5.07	Si
2.29	2X/2Y ø8/14.9	150.25	-431.16	SLV 4	177.61	263.77	1022.83	2.5	1.76	51.98	-431.36	SLV 5	177.64	263.77	1022.86	2.5	5.07	Si
2.58	2X/2Y ø8/14.9	150.25	-429.36	SLV 4	177.37	263.77	1022.58	2.5	1.76	51.98	-429.57	SLV 5	177.39	263.77	1022.61	2.5	5.07	Si
2.86	2X/2Y ø8/14.9	150.25	-427.56	SLV 4	177.12	263.77	1022.32	2.5	1.76	51.98	-427.77	SLV 5	177.15	263.77	1022.35	2.5	5.07	Si
3.15	2X/2Y ø8/14.9	150.25	-425.8	SLV 4	176.88	263.77	1022.07	2.5	1.76	51.98	-426	SLV 5	176.91	263.77	1022.1	2.5	5.07	Si
3.75	2X/2Y ø8/14.9	188.23	-173.27	SLV 13	142.26	263.77	986.26	2.5	1.4	67.5	-173.16	SLV 12	142.24	263.77	986.24	2.5	3.91	Si
4.04	2X/2Y ø8/14.9	188.23	-171.49	SLV 13	142.01	263.77	986	2.5	1.4	67.5	-171.38	SLV 12	142	263.77	985.99	2.5	3.91	Si
4.32	2X/2Y ø8/14.9	188.23	-169.71	SLV 13	141.77	263.77	985.75	2.5	1.4	67.5	-169.6	SLV 12	141.75	263.77	985.74	2.5	3.91	Si
4.61	2X/2Y ø8/14.9	188.23	-167.93	SLV 13	141.52	263.77	985.5	2.5	1.4	67.5	-167.82	SLV 12	141.51	263.77	985.48	2.5	3.91	Si
4.89	2X/2Y ø8/14.9	188.23	-166.14	SLV 13	141.28	263.77	985.25	2.5	1.4	67.5	-166.03	SLV 12	141.26	263.77	985.23	2.5	3.91	Si
5.18	2X/2Y ø8/14.9	188.23	-164.36	SLV 13	141.04	263.77	984.99	2.5	1.4	67.5	-164.25	SLV 12	141.02	263.77	984.98	2.5	3.91	Si
5.46	2X/2Y ø8/14.9	188.23	-162.58	SLV 13	140.79	263.77	984.74	2.5	1.4	67.5	-162.47	SLV 12	140.78	263.77	984.72	2.5	3.91	Si
5.75	2X/2Y ø8/10	188.23	-160.8	SLV 13	140.55	391.99	984.49	2.5	2.08	67.5	-160.69	SLV 12	140.53	391.99	984.47	2.5	5.81	Si
6.03	2X/2Y ø8/10	188.23	-159.02	SLV 13	140.3	391.99	984.23	2.5	2.08	67.5	-158.91	SLV 12	140.29	391.99	984.22	2.5	5.81	Si
6.32	2X/2Y ø8/10	188.23	-157.24	SLV 13	140.06	391.99	983.98	2.5	2.08	67.5	-157.13	SLV 12	140.04	391.99	983.97	2.5	5.81	Si
6.6	2X/2Y ø8/10	188.23	-155.49	SLV 13	139.82	391.99	983.73	2.5	2.08	67.5	-155.38	SLV 12	139.8	391.99	983.72	2.5	5.81	Si

1.1.9.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	3.45	X	2.263	0.153	0.5	0.0305	0.000584	0.018141	0	179.826	1486.425	391.986	156.794	305.592	391.986	150.253	-447.298	SLV 4	Si
-0.3	-0.975	3.45	Y	2.263	0.153	0.5	0.0305	0.000207	0.018141	0	179.854	1486.468	391.986	156.794	305.605	391.986	51.983	-447.504	SLV 5	Si

1.1.9.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	65.9	-447.52	SLD 4	179.86	391.99	1025.15	2.5	5.95	22.94	-447.6	SLD 5	179.87	391.99	1025.16	2.5	17.09	Si
-0.01	2X/2Y ø8/10	65.9	-445.75	SLD 4	179.61	391.99	1024.9	2.5	5.95	22.94	-445.84	SLD 5	179.63	391.99	1024.91	2.5	17.09	Si
0.28	2X/2Y ø8/10	65.9	-443.95	SLD 4	179.37	391.99	1024.65	2.5	5.95	22.94	-444.04	SLD 5	179.38	391.99	1024.66	2.5	17.09	Si
0.56	2X/2Y ø8/14.9	65.9	-442.16	SLD 4	179.12	263.77	1024.39	2.5	4	22.94	-442.24	SLD 5	179.13	263.77	1024.4	2.5	11.5	Si
0.85	2X/2Y ø8/14.9	65.9	-440.36	SLD 4	178.87	263.77	1024.14	2.5	4	22.94	-440.45	SLD 5	178.89	263.77	1024.15	2.5	11.5	Si
1.14	2X/2Y ø8/14.9	65.9	-438.56	SLD 4	178.63	263.77	1023.88	2.5	4	22.94	-438.65	SLD 5	178.64	263.77	1023.89	2.5	11.5	Si
1.43	2X/2Y ø8/14.9	65.9	-436.77	SLD 4	178.38	263.77	1023.63	2.5	4	22.94	-436.85	SLD 5	178.39	263.77	1023.64	2.5	11.5	Si
1.71	2X/2Y ø8/14.9	65.9	-434.97	SLD 4	178.14	263.77	1023.37	2.5	4	22.94	-435.06	SLD 5	178.15	263.77	1023.38	2.5	11.5	Si
2	2X/2Y ø8/14.9	65.9	-433.17	SLD 4	177.89	263.77	1023.12	2.5	4	22.94	-433.26	SLD 5	177.9	263.77	1023.13	2.5	11.5	Si
2.29	2X/2Y ø8/14.9	65.9	-431.37	SLD 4	177.64	263.77	1022.86	2.5	4	22.94	-431.46	SLD 5	177.65	263.77	1022.87	2.5	11.5	Si
2.58	2X/2Y ø8/14.9	65.9	-429.58	SLD 4	177.4	263.77	1022.61	2.5	4	22.94	-429.67	SLD 5	177.41	263.77	1022.62	2.5	11.5	Si
2.86	2X/2Y ø8/14.9	65.9	-427.78	SLD 4	177.15	263.77	1022.35	2.5	4	22.94	-427.87	SLD 5	177.16	263.77	1022.37	2.5	11.5	Si
3.15	2X/2Y ø8/14.9	65.9	-426.02	SLD 4	176.91	263.77	1022.1	2.5	4	22.94	-426.1	SLD 5	176.92	263.77	1022.11	2.5	11.5	Si
3.75	2X/2Y ø8/14.9	80.81	-173.15	SLD 13	142.24	263.77	986.24	2.5	3.26	29	-173.1	SLD 12	142.23	263.77	986.23	2.5	9.09	Si
4.04	2X/2Y ø8/14.9	80.81	-171.37	SLD 13	142	263.77	985.99	2.5	3.26	29	-171.32	SLD 12	141.99	263.77	985.98	2.5	9.09	Si
4.32	2X/2Y ø8/14.9	80.81	-169.59	SLD 13	141.75	263.77	985.73	2.5	3.26	29	-169.54	SLD 12	141.74	263.77	985.73	2.5	9.09	Si
4.61	2X/2Y ø8/14.9	80.81	-167.8	SLD 13	141.51	263.77	985.48	2.5	3.26	29	-167.76	SLD 12	141.5	263.77	985.47	2.5	9.09	Si
4.89	2X/2Y ø8/14.9	80.81	-166.02	SLD 13	141.26	263.77	985.23	2.5	3.26	29	-165.98	SLD 12	141.26	263.77	985.22	2.5	9.09	Si
5.18	2X/2Y ø8/14.9	80.81	-164.24	SLD 13	141.02	263.77	984.98	2.5	3.26	29	-164.19	SLD 12	141.01	263.77	984.97	2.5	9.09	Si
5.46	2X/2Y ø8/14.9	80.81	-162.46	SLD 13	140.77	263.77	984.72	2.5	3.26	29	-162.41	SLD 12	140.77	263.77	984.72	2.5	9.09	Si
5.75	2X/2Y ø8/10	80.81	-160.68	SLD 13	140.53	391.99	984.47	2.5	4.85	29	-160.63	SLD 12	140.52	391.99	984.46	2.5	13.52	Si
6.03	2X/2Y ø8/10	80.81	-158.9	SLD 13	140.29	391.99	984.22	2.5	4.85	29	-158.85	SLD 12	140.28	391.99	984.21	2.5	13.52	Si
6.32	2X/2Y ø8/10	80.81	-157.12	SLD 13	140.04	391.99	983.97	2.5	4.85	29	-157.07	SLD 12	140.04	391.99	983.96	2.5	13.52	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
6.6	2X/2Y ø8/10	80.81	-155.37	SLD 13	139.8	391.99	983.72	2.5	4.85	29	-155.32	SLD 12	139.8	391.99	983.71	2.5	13.52	Si

1.1.9.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.01	2.641	1961	1.347	0.368	1.298	SLV 4	Si
0.28	2.641	1961	1.347	0.368	1.298	SLV 4	Si
0.56	1.77	1961	1.347	0.368	1.298	SLV 4	Si
0.85	1.77	1961	1.347	0.368	1.298	SLV 4	Si
1.14	1.77	1961	1.347	0.368	1.298	SLV 4	Si
1.43	1.77	1961	1.347	0.368	1.298	SLV 4	Si
1.71	1.77	1961	1.347	0.368	1.298	SLV 4	Si
2	1.77	1961	1.347	0.368	1.298	SLV 4	Si
2.29	1.77	1961	1.347	0.368	1.298	SLV 4	Si
2.58	1.77	1961	1.347	0.368	1.298	SLV 4	Si
2.86	1.77	1961	1.347	0.368	1.298	SLV 4	Si
3.15	1.77	1961	1.347	0.368	1.298	SLV 4	Si
3.75	1.402	1961	1.347	0.368	1.298	SLV 13	Si
4.04	1.402	1961	1.347	0.368	1.298	SLV 13	Si
4.32	1.402	1961	1.347	0.368	1.298	SLV 13	Si
4.61	1.402	1961	1.347	0.368	1.298	SLV 13	Si
4.89	1.402	1961	1.347	0.368	1.298	SLV 13	Si
5.18	1.402	1961	1.347	0.368	1.298	SLV 13	Si
5.46	1.402	1961	1.347	0.368	1.298	SLV 13	Si
5.75	2.084	1961	1.347	0.368	1.298	SLV 13	Si
6.03	2.084	1961	1.347	0.368	1.298	SLV 13	Si
6.32	2.084	1961	1.347	0.368	1.298	SLV 13	Si
6.6	2.084	1961	1.347	0.368	1.298	SLV 13	Si

1.1.9.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	6.168	1961	3.374	0.368	3.05	SLD 4	Si
-0.01	6.168	1961	3.374	0.368	3.05	SLD 4	Si
0.28	6.168	1961	3.374	0.368	3.05	SLD 4	Si
0.56	4.131	1961	3.374	0.368	3.05	SLD 4	Si
0.85	4.131	1961	3.374	0.368	3.05	SLD 4	Si
1.14	4.131	1961	3.374	0.368	3.05	SLD 4	Si
1.43	4.131	1961	3.374	0.368	3.05	SLD 4	Si
1.71	4.131	1961	3.374	0.368	3.05	SLD 4	Si
2	4.131	1961	3.374	0.368	3.05	SLD 4	Si
2.29	4.131	1961	3.374	0.368	3.05	SLD 4	Si
2.58	4.131	1961	3.374	0.368	3.05	SLD 4	Si
2.86	4.131	1961	3.374	0.368	3.05	SLD 4	Si
3.15	4.131	1961	3.374	0.368	3.05	SLD 4	Si
3.75	3.273	1961	3.374	0.368	3.05	SLD 13	Si
4.04	3.273	1961	3.374	0.368	3.05	SLD 13	Si
4.32	3.273	1961	3.374	0.368	3.05	SLD 13	Si
4.61	3.273	1961	3.374	0.368	3.05	SLD 13	Si
4.89	3.273	1961	3.374	0.368	3.05	SLD 13	Si
5.18	3.273	1961	3.374	0.368	3.05	SLD 13	Si
5.46	3.273	1961	3.374	0.368	3.05	SLD 13	Si
5.75	4.869	1961	3.374	0.368	3.05	SLD 13	Si
6.03	4.869	1961	3.374	0.368	3.05	SLD 13	Si
6.32	4.869	1961	3.374	0.368	3.05	SLD 13	Si
6.6	4.869	1961	3.374	0.368	3.05	SLD 13	Si

1.1.9.4 Verifiche nodi trave colonna

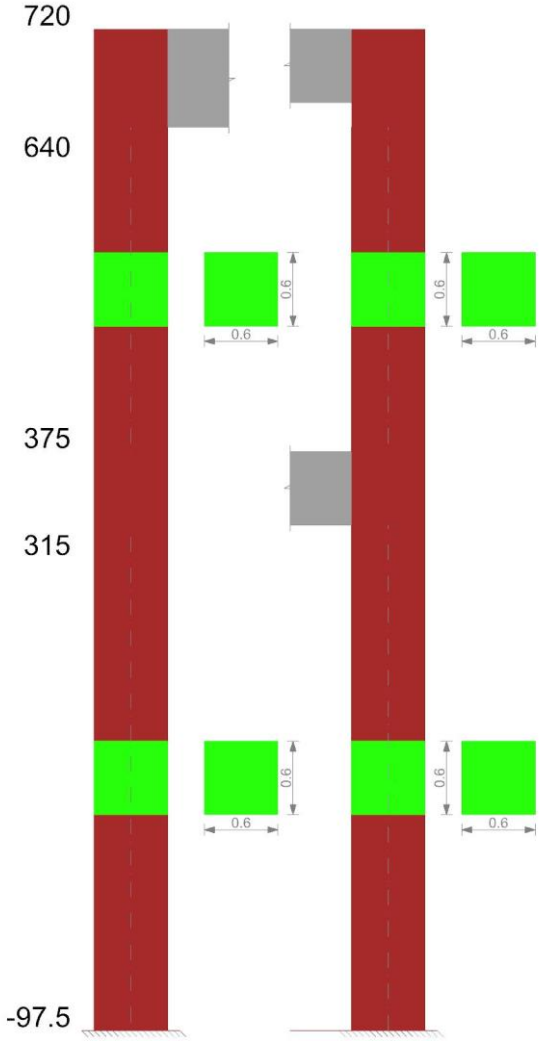
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.9.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.10 P14

Geometria



1.1.10.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.10.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.97	3.15	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2; Armature LC3_FC = 1	1.2
3.75	6.4	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2; Armature LC3_FC = 1	1.2

1.1.10.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	-0.2131	-0.2531	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	0.2531	-0.2531	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	0.2131	-0.2531	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	0.2531	0.2531	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	0.2131	0.2531	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.1	-0.2131	0.2531	0.026	0.0005309	-2.064	7.2	R 60x60_1	Armature LC2
p.2	0	-0.257	0.02	0.0003142	-2.064	7.2	R 60x60_1	Armature LC3
p.2	0	0.257	0.02	0.0003142	-2.064	7.2	R 60x60_1	Armature LC3
p.2	-0.257	0	0.02	0.0003142	-2.064	7.2	R 60x60_1	Armature LC3
p.2	0.257	0	0.02	0.0003142	-2.064	7.2	R 60x60_1	Armature LC3

1.1.10.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.10.3 Verifiche delle sezioni

1.1.10.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.97	0.006387	2.1	0	1,2	-17.2089	116.0518	-677.09	-157.641	1063.0857	SLU 18	9.16	Si
-0.92	0.006623	2.1	0	1,2	-16.9955	114.6212	-676.45	-158.6298	1069.8355	SLU 18	9.334	Si
-0.63	0.007628	2.1	0	1,2	-15.8854	107.1808	-673.1	-161.493	1089.612	SLU 18	10.166	Si
-0.34	0.007628	2.1	0	1,2	-14.756	99.6102	-669.69	-156.6915	1057.7457	SLU 18	10.619	Si
-0.05	0.007628	2.1	0	1,2	-13.6265	92.0397	-666.29	-151.386	1022.5286	SLU 18	11.11	Si
0.24	0.007628	2.1	0	1,2	-12.4971	84.4692	-662.88	-145.325	982.2672	SLU 18	11.629	Si
0.53	0.007628	2.1	0	1,2	-11.3677	76.8987	-659.48	-138.544	937.2072	SLU 18	12.188	Si
0.82	0.007628	2.1	0	1,2	-10.2382	69.3281	-656.07	-130.7963	885.6881	SLU 18	12.775	Si
1.11	0.007628	2.1	0	1,2	-9.1088	61.7576	-652.67	-122.1001	827.8404	SLU 18	13.405	Si
1.4	0.007628	2.1	0	1,2	-7.9793	54.1871	-649.26	-112.242	762.2282	SLU 18	14.067	Si
1.69	0.007628	2.1	0	1,2	-6.8499	46.6166	-645.86	-101.1429	688.3229	SLU 18	14.766	Si
1.99	0.007628	2.1	0	1,2	-5.7204	39.046	-642.45	-88.7231	605.5973	SLU 18	15.51	Si
2.28	0.007628	2.1	0	1,2	-4.591	31.4755	-639.04	-74.7462	512.4535	SLU 18	16.281	Si
2.57	0.007628	2.1	0	1,2	-3.4616	23.905	-635.64	-58.515	404.0951	SLU 18	16.904	Si
2.86	0.007628	2.1	0	1,2	-2.3321	16.3344	-632.23	-39.635	277.6085	SLU 18	16.995	Si
3.15	0.007628	2.1	0	1,2	-1.2221	8.894	-628.89	-20.8801	151.9599	SLU 18	17.086	Si
3.75	0.007628	2.1	0	1,2	0.5655	-1.4274	-457.45	13.2824	-33.5289	SLU 17	23.489	Si
4.04	0.007628	2.1	0	1,2	0.5085	-1.2944	-454	12.0346	-30.6347	SLU 17	23.667	Si
4.34	0.007628	2.1	0	1,2	0.4515	-1.1614	-450.56	10.7677	-27.6961	SLU 17	23.848	Si
4.63	0.007628	2.1	0	1,2	0.3945	-1.0283	-447.11	9.4813	-24.7123	SLU 17	24.032	Si
4.93	0.007628	2.1	0	1,2	0.3375	-0.8953	-443.67	8.1749	-21.6822	SLU 17	24.218	Si
5.22	0.007628	2.1	0	1,2	0.2806	-0.7622	-440.22	6.8481	-18.6046	SLU 17	24.408	Si
5.52	0.007628	2.1	0	1,2	0.2236	-0.6292	-436.78	5.5003	-15.4785	SLU 17	24.601	Si
5.81	0.007628	2.1	0	1,2	0.1666	-0.4962	-433.33	4.1311	-12.3027	SLU 17	24.796	Si
6.11	0.006414	2.1	0	1,2	0.1096	-0.3631	-429.89	2.6226	-8.6872	SLU 17	23.924	Si
6.4	0.005027	2.1	0	1,2	0.0536	-0.2323	-426.5	1.2265	-5.3159	SLU 17	22.881	Si

1.1.10.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.97	0.006387	2.1	0	1,2	-22.9212	337.7274	-426.78	-71.4459	1052.7026	SLV 1	3.117				Si
-0.92	0.006623	2.1	0	1,2	-22.2627	336.5859	-426.28	-71.9467	1087.7494	SLV 1	3.232				Si
-0.63	0.007628	2.1	0	1,2	-16.8153	330.8507	-423.71	-62.9599	1238.7723	SLV 1	3.744				Si
-0.34	0.007628	2.1	0	1,2	-7.1928	325.5802	-421.09	-27.5619	1247.5807	SLV 1	3.832				Si
-0.05	0.007628	2.1	0	1,2	3.4366	321.079	-418.47	13.4089	1252.7875	SLV 1	3.902				Si
0.24	0.007628	2.1	0	1,2	11.832	317.5438	-415.85	46.6094	1250.8924	SLV 1	3.939				Si
0.53	0.007628	2.1	0	1,2	17.1323	314.9965	-413.23	67.9355	1249.066	SLV 1	3.965				Si
0.82	0.007628	2.1	0	1,2	20.7997	313.2565	-410.61	82.7887	1246.8514	SLV 1	3.98				Si
1.11	0.007628	2.1	0	1,2	23.8713	312.1045	-407.99	95.1519	1244.0607	SLV 1	3.986				Si
1.4	0.007628	2.1	0	1,2	65.3203	311.3843	-405.37	251.9266	1200.9425	SLV 1	3.857				Si
1.69	0.007628	2.1	0	1,2	99.4522	311.0027	-402.75	369.0171	1153.9746	SLV 1	3.71				Si
1.99	0.007628	2.1	0	1,2	114.3356	310.9045	-400.13	415.7463	1130.509	SLV 1	3.636				Si
2.28	0.007628	2.1	0	1,2	129.2893	311.0549	-397.51	460.2126	1107.218	SLV 1	3.56				Si
2.57	0.007628	2.1	0	1,2	325.0164	164.5443	-395.37	1053.7061	533.4541	SLV 5	3.242				Si
2.86	0.007628	2.1	0	1,2	354.646	167.7907	-392.75	1045.8316	494.8055	SLV 5	2.949				Si
3.15	0.007628	2.1	0	1,2	383.8012	171.0931	-390.17	1038.5555	462.9733	SLV 5	2.706				Si
3.75	0.007628	2.1	0	1,2	-398.8041	-166.1522	-272.17	-981.5069	-408.9214	SLV 12	2.461				Si
4.04	0.007628	2.1	0	1,2	-358.2849	-149.3113	-269.52	-995.7223	-414.9563	SLV 12	2.779				Si
4.34	0.007628	2.1	0	1,2	-317.7657	-132.4704	-266.87	-1013.8165	-422.6406	SLV 12	3.19				Si
4.63	0.007628	2.1	0	1,2	-277.2466	-115.6296	-264.22	-1037.4674	-432.6906	SLV 12	3.742				Si
4.93	0.007628	2.1	0	1,2	-236.7274	-98.789	-261.57	-1068.468	-445.8835	SLV 12	4.513				Si
5.22	0.007628	2.1	0	1,2	-196.2083	-81.9485	-258.92	-1115.9695	-466.0966	SLV 12	5.688				Si
5.52	0.007628	2.1	0	1,2	-155.6893	-65.1084	-256.27	-1184.7174	-495.4421	SLV 12	7.61				Si
5.81	0.007628	2.1	0	1,2	-115.1703	-48.2689	-253.62	-1279.1447	-536.1012	SLV 12	11.107				Si
6.11	0.006414	2.1	0	1,2	-74.6516	-31.4313	-250.97	-1283.7356	-540.5042	SLV 12	17.196				Si
6.4	0.005027	2.1	0	1,2	-34.8222	-14.7227	-248.36	-1192.9607	-504.3785	SLV 12	34.259				Si

1.1.10.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.97	0.006387	2.1	0	1,2	-15.9873	187.1628	-427.24	-117.2197	1372.2876	SLD 1	7.332	Si
-0.92	0.006623	2.1	0	1,2	-15.6316	186.1456	-426.75	-118.5259	1411.4441	SLD 1	7.582	Si
-0.63	0.007628	2.1	0	1,2	-12.9264	180.9427	-424.17	-112.6098	1576.3074	SLD 1	8.712	Si
-0.34	0.007628	2.1	0	1,2	-8.429	175.8938	-421.56	-76.8777	1604.2553	SLD 1	9.121	Si
-0.05	0.007628	2.1	0	1,2	-22.77	165.6743	-418.96	-216.5399	1575.5434	SLD 3	9.51	Si
0.24	0.007628	2.1	0	1,2	-24.9641	161.4773	-416.34	-243.4429	1574.6828	SLD 3	9.752	Si
0.53	0.007628	2.1	0	1,2	-28.8726	157.0496	-413.72	-286.6044	1558.9549	SLD 3	9.927	Si
0.82	0.007628	2.1	0	1,2	-33.6711	152.4669	-411.1	-338.6354	1533.3813	SLD 3	10.057	Si
1.11	0.007628	2.1	0	1,2	-38.8241	147.8219	-408.48	-393.7719	1499.2754	SLD 3	10.142	Si
1.4	0.007628	2.1	0	1,2	24.9368	153.2426	-405.84	257.4783	1582.2626	SLD 1	10.325	Si
1.69	0.007628	2.1	0	1,2	40.0366	150.3366	-403.22	395.9232	1486.6811	SLD 1	9.889	Si
1.99	0.007628	2.1	0	1,2	46.8205	147.554	-400.6	457.1214	1440.609	SLD 1	9.763	Si
2.28	0.007628	2.1	0	1,2	124.647	81.0289	-398.18	1180.19	767.2028	SLD 5	9.468	Si
2.57	0.007628	2.1	0	1,2	137.7111	79.6497	-395.56	1213.8676	702.0804	SLD 5	8.815	Si
2.86	0.007628	2.1	0	1,2	150.7955	78.3308	-392.94	1240.8887	644.5802	SLD 5	8.229	Si
3.15	0.007628	2.1	0	1,2	163.6704	77.0827	-390.37	1257.9249	592.4363	SLD 5	7.686	Si
3.75	0.007628	2.1	0	1,2	-171.3002	-72.1222	-272.05	-1171.2726	-493.139	SLD 12	6.838	Si
4.04	0.007628	2.1	0	1,2	-153.8959	-64.8161	-269.4	-1204.9132	-507.4711	SLD 12	7.829	Si
4.34	0.007628	2.1	0	1,2	-136.4916	-57.5099	-266.75	-1242.9545	-523.7113	SLD 12	9.106	Si
4.63	0.007628	2.1	0	1,2	-119.0873	-50.2038	-264.1	-1279.2076	-539.2769	SLD 12	10.742	Si
4.93	0.007628	2.1	0	1,2	-101.6831	-42.8977	-261.45	-1325.0729	-559.0173	SLD 12	13.031	Si
5.22	0.007628	2.1	0	1,2	-84.2788	-35.5917	-258.8	-1369.4705	-578.3401	SLD 12	16.249	Si
5.52	0.007628	2.1	0	1,2	-66.8746	-28.2859	-256.15	-1418.6717	-600.0543	SLD 12	21.214	Si
5.81	0.007628	2.1	0	1,2	-49.4703	-20.9803	-253.5	-1420.9795	-602.6359	SLD 12	28.724	Si
6.11	0.006414	2.1	0	1,2	-32.0662	-13.6756	-250.85	-1221.67	-521.0159	SLD 12	38.098	Si
6.4	0.005027	2.1	0	1,2	-14.9581	-6.4267	-248.25	-775.2004	-333.0588	SLD 12	51.825	Si

1.1.10.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.97	2.939	1961	1.347	0.368	1.298	SLV 1	Si
-0.92	3.039	1961	1.347	0.368	1.298	SLV 1	Si
-0.63	3.479	1961	1.347	0.368	1.298	SLV 1	Si
-0.34	3.508	1961	1.347	0.368	1.298	SLV 1	Si
-0.05	3.508	1961	1.347	0.368	1.298	SLV 1	Si
0.24	3.502	1961	1.347	0.368	1.298	SLV 1	Si
0.53	3.484	1961	1.347	0.368	1.298	SLV 1	Si
0.82	3.461	1961	1.347	0.368	1.298	SLV 1	Si
1.11	3.426	1961	1.347	0.368	1.298	SLV 1	Si
1.4	3.35	1961	1.347	0.368	1.298	SLV 1	Si
1.69	3.268	1961	1.347	0.368	1.298	SLV 1	Si
1.99	3.191	1961	1.347	0.368	1.298	SLV 1	Si
2.28	3.063	1961	1.347	0.368	1.298	SLV 5	Si
2.57	2.808	1961	1.347	0.368	1.298	SLV 5	Si
2.86	2.591	1961	1.347	0.368	1.298	SLV 5	Si
3.15	2.406	1961	1.347	0.368	1.298	SLV 5	Si
3.75	2.28	1961	1.347	0.368	1.298	SLV 12	Si
4.04	2.535	1961	1.347	0.368	1.298	SLV 12	Si
4.34	2.857	1961	1.347	0.368	1.298	SLV 12	Si
4.63	3.273	1961	1.347	0.368	1.298	SLV 12	Si
4.93	3.836	1961	1.347	0.368	1.298	SLV 5	Si
5.22	4.623	1961	1.347	0.368	1.298	SLV 5	Si
5.52	5.826	1961	1.347	0.368	1.298	SLV 5	Si
5.81	7.863	1961	1.347	0.368	1.298	SLV 5	Si
6.11	10.492	1961	1.347	0.368	1.298	SLV 5	Si
6.4	18.407	1961	1.347	0.368	1.298	SLV 5	Si

1.1.10.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.97	6.865	1961	3.374	0.368	3.05	SLD 1	Si
-0.92	7.098	1961	3.374	0.368	3.05	SLD 1	Si
-0.63	8.119	1961	3.374	0.368	3.05	SLD 1	Si
-0.34	8.192	1961	3.374	0.368	3.05	SLD 1	Si
-0.05	8.207	1961	3.374	0.368	3.05	SLD 1	Si
0.24	8.178	1961	3.374	0.368	3.05	SLD 1	Si
0.53	8.148	1961	3.374	0.368	3.05	SLD 1	Si
0.82	8.075	1961	3.374	0.368	3.05	SLD 1	Si
1.11	8.002	1961	3.374	0.368	3.05	SLD 1	Si
1.4	7.822	1961	3.374	0.368	3.05	SLD 1	Si
1.69	7.631	1961	3.374	0.368	3.05	SLD 1	Si
1.99	7.453	1961	3.374	0.368	3.05	SLD 1	Si
2.28	7.139	1961	3.374	0.368	3.05	SLD 5	Si
2.57	6.551	1961	3.374	0.368	3.05	SLD 5	Si
2.86	6.045	1961	3.374	0.368	3.05	SLD 5	Si
3.15	5.614	1961	3.374	0.368	3.05	SLD 5	Si
3.75	5.32	1961	3.374	0.368	3.05	SLD 5	Si
4.04	5.915	1961	3.374	0.368	3.05	SLD 12	Si
4.34	6.66	1961	3.374	0.368	3.05	SLD 12	Si
4.63	7.631	1961	3.374	0.368	3.05	SLD 12	Si
4.93	8.939	1961	3.374	0.368	3.05	SLD 5	Si
5.22	10.785	1961	3.374	0.368	3.05	SLD 5	Si
5.52	13.568	1961	3.374	0.368	3.05	SLD 5	Si
5.81	18.347	1961	3.374	0.368	3.05	SLD 5	Si
6.11	24.462	1961	3.374	0.368	3.05	SLD 5	Si
6.4	42.897	1961	3.374	0.368	3.05	SLD 5	Si

1.1.10.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.97	2X/2Y ø8/14.9	- 26.01	- 677.09	SLU 18	257.94	320.29	1504.07	2.5	12.31	3.88	- 677.09	SLU 18	257.94	320.29	1504.07	2.5	82.54	Si

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		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.92	2X/2Y ø8/14.9	-26.01	-676.45	SLU 18	257.85	320.29	1503.98	2.5	12.31	3.88	-676.45	SLU 18	257.85	320.29	1503.98	2.5	82.54	Si
-0.63	2X/2Y ø8/14.9	-26.01	-673.1	SLU 18	257.39	320.29	1503.5	2.5	12.31	3.88	-673.1	SLU 18	257.39	320.29	1503.5	2.5	82.54	Si
-0.34	2X/2Y ø8/14.9	-26.01	-669.69	SLU 18	256.91	320.29	1503.01	2.5	12.31	3.88	-669.69	SLU 18	256.91	320.29	1503.01	2.5	82.54	Si
-0.05	2X/2Y ø8/14.9	-26.01	-666.29	SLU 18	256.44	320.29	1502.52	2.5	12.31	3.88	-666.29	SLU 18	256.44	320.29	1502.52	2.5	82.54	Si
0.24	2X/2Y ø8/14.9	-26.01	-662.88	SLU 18	255.97	320.29	1502.03	2.5	12.31	3.88	-662.88	SLU 18	255.97	320.29	1502.03	2.5	82.54	Si
0.53	2X/2Y ø8/14.9	-26.01	-659.48	SLU 18	255.49	320.29	1501.54	2.5	12.31	3.88	-659.48	SLU 18	255.49	320.29	1501.54	2.5	82.54	Si
0.82	2X/2Y ø8/14.9	-26.01	-656.07	SLU 18	255.02	320.29	1501.05	2.5	12.31	3.88	-656.07	SLU 18	255.02	320.29	1501.05	2.5	82.54	Si
1.11	2X/2Y ø8/14.9	-26.01	-652.67	SLU 18	254.54	320.29	1500.56	2.5	12.31	3.88	-652.67	SLU 18	254.54	320.29	1500.56	2.5	82.54	Si
1.4	2X/2Y ø8/14.9	-26.01	-649.26	SLU 18	254.07	320.29	1500.07	2.5	12.31	3.88	-649.26	SLU 18	254.07	320.29	1500.07	2.5	82.54	Si
1.69	2X/2Y ø8/14.9	-26.01	-645.86	SLU 18	253.59	320.29	1499.57	2.5	12.31	3.88	-645.86	SLU 18	253.59	320.29	1499.57	2.5	82.54	Si
1.99	2X/2Y ø8/14.9	-26.01	-642.45	SLU 18	253.12	320.29	1499.08	2.5	12.31	3.88	-642.45	SLU 18	253.12	320.29	1499.08	2.5	82.54	Si
2.28	2X/2Y ø8/14.9	-26.01	-639.04	SLU 18	252.65	320.29	1498.59	2.5	12.31	3.88	-639.04	SLU 18	252.65	320.29	1498.59	2.5	82.54	Si
2.57	2X/2Y ø8/14.9	-26.01	-635.64	SLU 18	252.17	320.29	1498.1	2.5	12.31	3.88	-635.64	SLU 18	252.17	320.29	1498.1	2.5	82.54	Si
2.86	2X/2Y ø8/14.9	-26.01	-632.23	SLU 18	251.7	320.29	1497.61	2.5	12.31	3.88	-632.23	SLU 18	251.7	320.29	1497.61	2.5	82.54	Si
3.15	2X/2Y ø8/14.9	-26.01	-628.89	SLU 18	251.23	320.29	1497.13	2.5	12.31	3.88	-628.89	SLU 18	251.23	320.29	1497.13	2.5	82.54	Si
3.75	2X/2Y ø8/14.9	0.49	-399.65	SLU 8	219.31	320.29	1464.11	2.5	649.35	0.65	-313.9	SLU 14	207.37	320.29	1451.76	2.5	491.18	Si
4.04	2X/2Y ø8/14.9	0.49	-397	SLU 8	218.94	320.29	1463.73	2.5	649.35	0.65	-310.46	SLU 14	206.89	320.29	1451.26	2.5	491.18	Si
4.34	2X/2Y ø8/14.9	0.49	-394.35	SLU 8	218.57	320.29	1463.35	2.5	649.35	0.65	-307.01	SLU 14	206.41	320.29	1450.76	2.5	491.18	Si
4.63	2X/2Y ø8/14.9	0.49	-391.7	SLU 8	218.2	320.29	1462.96	2.5	649.35	0.65	-303.57	SLU 14	205.93	320.29	1450.27	2.5	491.18	Si
4.93	2X/2Y ø8/14.9	0.49	-389.05	SLU 8	217.83	320.29	1462.58	2.5	649.35	0.65	-300.12	SLU 14	205.45	320.29	1449.77	2.5	491.18	Si
5.22	2X/2Y ø8/14.9	0.49	-386.4	SLU 8	217.46	320.29	1462.2	2.5	649.35	0.65	-296.68	SLU 14	204.97	320.29	1449.27	2.5	491.18	Si
5.52	2X/2Y ø8/14.9	0.49	-383.75	SLU 8	217.1	320.29	1461.82	2.5	649.35	0.65	-293.23	SLU 14	204.49	320.29	1448.78	2.5	491.18	Si
5.81	2X/2Y ø8/10	0.49	-381.1	SLU 8	216.73	477.76	1461.44	2.5	968.62	0.65	-289.79	SLU 14	204.01	477.76	1448.28	2.5	732.68	Si
6.11	2X/2Y ø8/10	0.49	-378.45	SLU 8	216.36	477.76	1461.05	2.5	968.62	0.65	-286.34	SLU 14	203.53	477.76	1447.79	2.5	732.68	Si
6.4	2X/2Y ø8/10	0.49	-375.85	SLU 8	216	477.76	1460.68	2.5	968.62	0.65	-282.95	SLU 14	203.06	477.76	1447.3	2.5	732.68	Si

1.1.10.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.97	2X/2Y ø8/14.9	-52.76	-426.78	SLV 1	223.09	320.29	1468.02	2.5	6.07	102.59	-427.25	SLV 5	223.15	320.29	1468.09	2.5	3.12	Si
-0.92	2X/2Y ø8/14.9	-52.76	-426.28	SLV 1	223.02	320.29	1467.95	2.5	6.07	102.59	-426.76	SLV 5	223.08	320.29	1468.01	2.5	3.12	Si
-0.63	2X/2Y ø8/14.9	-52.76	-423.71	SLV 1	222.66	320.29	1467.57	2.5	6.07	102.59	-424.19	SLV 5	222.73	320.29	1467.64	2.5	3.12	Si
-0.34	2X/2Y ø8/14.9	-52.76	-421.09	SLV 1	222.3	320.29	1467.2	2.5	6.07	102.59	-421.57	SLV 5	222.36	320.29	1467.27	2.5	3.12	Si
-0.05	2X/2Y ø8/14.9	-52.76	-418.47	SLV 1	221.93	320.29	1466.82	2.5	6.07	102.59	-418.95	SLV 5	222	320.29	1466.89	2.5	3.12	Si
0.24	2X/2Y ø8/14.9	-52.76	-415.85	SLV 1	221.57	320.29	1466.44	2.5	6.07	102.59	-416.33	SLV 5	221.63	320.29	1466.51	2.5	3.12	Si
0.53	2X/2Y ø8/14.9	-52.76	-413.23	SLV 1	221.2	320.29	1466.07	2.5	6.07	102.59	-413.71	SLV 5	221.27	320.29	1466.13	2.5	3.12	Si
0.82	2X/2Y ø8/14.9	-52.76	-410.61	SLV 1	220.84	320.29	1465.69	2.5	6.07	102.59	-411.09	SLV 5	220.9	320.29	1465.76	2.5	3.12	Si
1.11	2X/2Y ø8/14.9	-52.76	-407.99	SLV 1	220.47	320.29	1465.31	2.5	6.07	102.59	-408.47	SLV 5	220.54	320.29	1465.38	2.5	3.12	Si
1.4	2X/2Y ø8/14.9	-52.76	-405.37	SLV 1	220.11	320.29	1464.93	2.5	6.07	102.59	-405.85	SLV 5	220.17	320.29	1465	2.5	3.12	Si
1.69	2X/2Y ø8/14.9	-52.76	-402.75	SLV 1	219.74	320.29	1464.56	2.5	6.07	102.59	-403.23	SLV 5	219.81	320.29	1464.62	2.5	3.12	Si
1.99	2X/2Y ø8/14.9	-52.76	-400.13	SLV 1	219.38	320.29	1464.18	2.5	6.07	102.59	-400.61	SLV 5	219.44	320.29	1464.25	2.5	3.12	Si
2.28	2X/2Y ø8/14.9	-52.76	-397.51	SLV 1	219.01	320.29	1463.8	2.5	6.07	102.59	-397.99	SLV 5	219.08	320.29	1463.87	2.5	3.12	Si
2.57	2X/2Y ø8/14.9	-52.76	-394.89	SLV 1	218.65	320.29	1463.42	2.5	6.07	102.59	-395.37	SLV 5	218.71	320.29	1463.49	2.5	3.12	Si
2.86	2X/2Y ø8/14.9	-52.76	-392.27	SLV 1	218.28	320.29	1463.05	2.5	6.07	102.59	-392.75	SLV 5	218.35	320.29	1463.11	2.5	3.12	Si
3.15	2X/2Y ø8/14.9	-52.76	-389.7	SLV 1	217.92	320.29	1462.68	2.5	6.07	102.59	-390.17	SLV 5	217.99	320.29	1462.74	2.5	3.12	Si
3.75	2X/2Y ø8/14.9	101.31	-272.42	SLV 16	201.59	320.29	1445.78	2.5	3.16	137.61	-272.17	SLV 12	201.56	320.29	1445.74	2.5	2.33	Si
4.04	2X/2Y ø8/14.9	101.31	-269.77	SLV 16	201.22	320.29	1445.4	2.5	3.16	137.61	-269.52	SLV 12	201.19	320.29	1445.36	2.5	2.33	Si
4.34	2X/2Y ø8/14.9	101.31	-267.12	SLV 16	200.86	320.29	1445.02	2.5	3.16	137.61	-266.87	SLV 12	200.82	320.29	1444.98	2.5	2.33	Si
4.63	2X/2Y ø8/14.9	101.31	-264.47	SLV 16	200.49	320.29	1444.64	2.5	3.16	137.61	-264.22	SLV 12	200.45	320.29	1444.6	2.5	2.33	Si
4.93	2X/2Y ø8/14.9	101.31	-261.82	SLV 16	200.12	320.29	1444.25	2.5	3.16	137.61	-261.57	SLV 12	200.08	320.29	1444.22	2.5	2.33	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
5.22	2X/2Y ø8/14.9	101.31	-259.17	SLV 16	199.75	320.29	1443.87	2.5	3.16	137.61	-258.92	SLV 12	199.71	320.29	1443.84	2.5	2.33	Si
5.52	2X/2Y ø8/14.9	101.31	-256.52	SLV 16	199.38	320.29	1443.49	2.5	3.16	137.61	-256.27	SLV 12	199.34	320.29	1443.45	2.5	2.33	Si
5.81	2X/2Y ø8/10	101.31	-253.87	SLV 16	199.01	477.76	1443.11	2.5	4.72	137.61	-253.62	SLV 12	198.97	477.76	1443.07	2.5	3.47	Si
6.11	2X/2Y ø8/10	101.31	-251.22	SLV 16	198.64	477.76	1442.73	2.5	4.72	137.61	-250.97	SLV 12	198.61	477.76	1442.69	2.5	3.47	Si
6.4	2X/2Y ø8/10	101.31	-248.62	SLV 16	198.28	477.76	1442.35	2.5	4.72	137.61	-248.36	SLV 12	198.24	477.76	1442.32	2.5	3.47	Si

1.1.10.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.975	-0.975	3.45	X	2.262	0.172	0.6	0.0177	0.001223	0.015199	0	223.088	2128.624	320.286	128.114	316.897	320.286	-52.761	-426.78	SLV 1	Si
-0.975	-0.975	3.45	Y	2.262	0.172	0.6	0.0177	0.000112	0.015199	0	223.154	2128.723	320.286	128.114	316.933	320.286	102.592	-427.255	SLV 5	Si

1.1.10.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.97	2X/2Y ø8/14.9	-32.28	-427.24	SLD 1	223.15	320.29	1468.08	2.5	9.92	45.3	-427.45	SLD 5	223.18	320.29	1468.11	2.5	7.07	Si
-0.92	2X/2Y ø8/14.9	-32.28	-426.75	SLD 1	223.08	320.29	1468.01	2.5	9.92	45.3	-426.95	SLD 5	223.11	320.29	1468.04	2.5	7.07	Si
-0.63	2X/2Y ø8/14.9	-32.28	-424.17	SLD 1	222.72	320.29	1467.64	2.5	9.92	45.3	-424.38	SLD 5	222.75	320.29	1467.67	2.5	7.07	Si
-0.34	2X/2Y ø8/14.9	-32.28	-421.56	SLD 1	222.36	320.29	1467.26	2.5	9.92	45.3	-421.76	SLD 5	222.39	320.29	1467.29	2.5	7.07	Si
-0.05	2X/2Y ø8/14.9	-32.28	-418.94	SLD 1	222	320.29	1466.89	2.5	9.92	45.3	-419.14	SLD 5	222.02	320.29	1466.92	2.5	7.07	Si
0.24	2X/2Y ø8/14.9	-32.28	-416.32	SLD 1	221.63	320.29	1466.51	2.5	9.92	45.3	-416.52	SLD 5	221.66	320.29	1466.54	2.5	7.07	Si
0.53	2X/2Y ø8/14.9	-32.28	-413.7	SLD 1	221.27	320.29	1466.13	2.5	9.92	45.3	-413.9	SLD 5	221.29	320.29	1466.16	2.5	7.07	Si
0.82	2X/2Y ø8/14.9	-32.28	-411.08	SLD 1	220.9	320.29	1465.75	2.5	9.92	45.3	-411.28	SLD 5	220.93	320.29	1465.78	2.5	7.07	Si
1.11	2X/2Y ø8/14.9	-32.28	-408.46	SLD 1	220.54	320.29	1465.38	2.5	9.92	45.3	-408.66	SLD 5	220.56	320.29	1465.41	2.5	7.07	Si
1.4	2X/2Y ø8/14.9	-32.28	-405.84	SLD 1	220.17	320.29	1465	2.5	9.92	45.3	-406.04	SLD 5	220.2	320.29	1465.03	2.5	7.07	Si
1.69	2X/2Y ø8/14.9	-32.28	-403.22	SLD 1	219.81	320.29	1464.62	2.5	9.92	45.3	-403.42	SLD 5	219.83	320.29	1464.65	2.5	7.07	Si
1.99	2X/2Y ø8/14.9	-32.28	-400.6	SLD 1	219.44	320.29	1464.25	2.5	9.92	45.3	-400.8	SLD 5	219.47	320.29	1464.27	2.5	7.07	Si
2.28	2X/2Y ø8/14.9	-32.28	-397.98	SLD 1	219.08	320.29	1463.87	2.5	9.92	45.3	-398.18	SLD 5	219.11	320.29	1463.9	2.5	7.07	Si
2.57	2X/2Y ø8/14.9	-32.28	-395.36	SLD 1	218.71	320.29	1463.49	2.5	9.92	45.3	-395.56	SLD 5	218.74	320.29	1463.52	2.5	7.07	Si
2.86	2X/2Y ø8/14.9	-32.28	-392.74	SLD 1	218.35	320.29	1463.11	2.5	9.92	45.3	-392.94	SLD 5	218.38	320.29	1463.14	2.5	7.07	Si
3.15	2X/2Y ø8/14.9	-32.28	-390.16	SLD 1	217.99	320.29	1462.74	2.5	9.92	45.3	-390.37	SLD 5	218.02	320.29	1462.77	2.5	7.07	Si
3.75	2X/2Y ø8/14.9	43.6	-272.16	SLD 16	201.56	320.29	1445.74	2.5	7.35	59.11	-272.05	SLD 12	201.54	320.29	1445.73	2.5	5.42	Si
4.04	2X/2Y ø8/14.9	43.6	-269.51	SLD 16	201.19	320.29	1445.36	2.5	7.35	59.11	-269.4	SLD 12	201.17	320.29	1445.35	2.5	5.42	Si
4.34	2X/2Y ø8/14.9	43.6	-266.86	SLD 16	200.82	320.29	1444.98	2.5	7.35	59.11	-266.75	SLD 12	200.8	320.29	1444.96	2.5	5.42	Si
4.63	2X/2Y ø8/14.9	43.6	-264.21	SLD 16	200.45	320.29	1444.6	2.5	7.35	59.11	-264.1	SLD 12	200.43	320.29	1444.58	2.5	5.42	Si
4.93	2X/2Y ø8/14.9	43.6	-261.56	SLD 16	200.08	320.29	1444.22	2.5	7.35	59.11	-261.45	SLD 12	200.07	320.29	1444.2	2.5	5.42	Si
5.22	2X/2Y ø8/14.9	43.6	-258.91	SLD 16	199.71	320.29	1443.84	2.5	7.35	59.11	-258.8	SLD 12	199.7	320.29	1443.82	2.5	5.42	Si
5.52	2X/2Y ø8/14.9	43.6	-256.26	SLD 16	199.34	320.29	1443.45	2.5	7.35	59.11	-256.15	SLD 12	199.33	320.29	1443.44	2.5	5.42	Si
5.81	2X/2Y ø8/10	43.6	-253.61	SLD 16	198.97	477.76	1443.07	2.5	10.96	59.11	-253.5	SLD 12	198.96	477.76	1443.06	2.5	8.08	Si
6.11	2X/2Y ø8/10	43.6	-250.96	SLD 16	198.61	477.76	1442.69	2.5	10.96	59.11	-250.85	SLD 12	198.59	477.76	1442.67	2.5	8.08	Si
6.4	2X/2Y ø8/10	43.6	-248.36	SLD 16	198.24	477.76	1442.31	2.5	10.96	59.11	-248.25	SLD 12	198.23	477.76	1442.3	2.5	8.08	Si

1.1.10.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.92	3.168	1961	1.347	0.368	1.298	SLV 5	Si
-0.63	3.168	1961	1.347	0.368	1.298	SLV 5	Si
-0.34	3.168	1961	1.347	0.368	1.298	SLV 5	Si
-0.05	3.168	1961	1.347	0.368	1.298	SLV 5	Si
0.24	3.168	1961	1.347	0.368	1.298	SLV 5	Si
0.53	3.168	1961	1.347	0.368	1.298	SLV 5	Si
0.82	3.168	1961	1.347	0.368	1.298	SLV 5	Si
1.11	3.168	1961	1.347	0.368	1.298	SLV 5	Si
1.4	3.168	1961	1.347	0.368	1.298	SLV 5	Si
1.69	3.168	1961	1.347	0.368	1.298	SLV 5	Si
1.99	3.168	1961	1.347	0.368	1.298	SLV 5	Si
2.28	3.168	1961	1.347	0.368	1.298	SLV 5	Si
2.57	3.168	1961	1.347	0.368	1.298	SLV 5	Si
2.86	3.168	1961	1.347	0.368	1.298	SLV 5	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
3.15	3.168	1961	1.347	0.368	1.298	SLV 5	Si
3.75	2.33	1961	1.347	0.368	1.298	SLV 5	Si
4.04	2.33	1961	1.347	0.368	1.298	SLV 5	Si
4.34	2.33	1961	1.347	0.368	1.298	SLV 5	Si
4.63	2.33	1961	1.347	0.368	1.298	SLV 5	Si
4.93	2.33	1961	1.347	0.368	1.298	SLV 5	Si
5.22	2.33	1961	1.347	0.368	1.298	SLV 5	Si
5.52	2.33	1961	1.347	0.368	1.298	SLV 5	Si
5.81	3.473	1961	1.347	0.368	1.298	SLV 12	Si
6.11	3.473	1961	1.347	0.368	1.298	SLV 12	Si
6.4	3.473	1961	1.347	0.368	1.298	SLV 12	Si

1.1.10.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.97	7.385	1961	3.374	0.368	3.05	SLD 5	Si
-0.92	7.385	1961	3.374	0.368	3.05	SLD 5	Si
-0.63	7.385	1961	3.374	0.368	3.05	SLD 5	Si
-0.34	7.385	1961	3.374	0.368	3.05	SLD 5	Si
-0.05	7.385	1961	3.374	0.368	3.05	SLD 5	Si
0.24	7.385	1961	3.374	0.368	3.05	SLD 5	Si
0.53	7.385	1961	3.374	0.368	3.05	SLD 5	Si
0.82	7.385	1961	3.374	0.368	3.05	SLD 5	Si
1.11	7.385	1961	3.374	0.368	3.05	SLD 5	Si
1.4	7.385	1961	3.374	0.368	3.05	SLD 5	Si
1.69	7.385	1961	3.374	0.368	3.05	SLD 5	Si
1.99	7.385	1961	3.374	0.368	3.05	SLD 5	Si
2.28	7.385	1961	3.374	0.368	3.05	SLD 5	Si
2.57	7.385	1961	3.374	0.368	3.05	SLD 5	Si
2.86	7.385	1961	3.374	0.368	3.05	SLD 5	Si
3.15	7.385	1961	3.374	0.368	3.05	SLD 5	Si
3.75	5.43	1961	3.374	0.368	3.05	SLD 12	Si
4.04	5.43	1961	3.374	0.368	3.05	SLD 12	Si
4.34	5.43	1961	3.374	0.368	3.05	SLD 12	Si
4.63	5.43	1961	3.374	0.368	3.05	SLD 12	Si
4.93	5.43	1961	3.374	0.368	3.05	SLD 12	Si
5.22	5.43	1961	3.374	0.368	3.05	SLD 12	Si
5.52	5.43	1961	3.374	0.368	3.05	SLD 12	Si
5.81	8.104	1961	3.374	0.368	3.05	SLD 12	Si
6.11	8.104	1961	3.374	0.368	3.05	SLD 12	Si
6.4	8.104	1961	3.374	0.368	3.05	SLD 12	Si

1.1.10.4 Verifiche nodi trave colonna

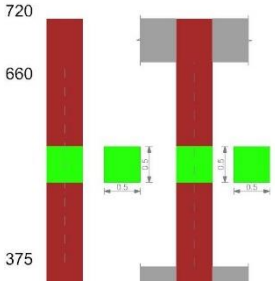
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.10.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.11 P16

Geometria



1.1.11.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.11.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.25	3.15	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2
3.75	6.6	R 50x50	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.11.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2031	-0.2031	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	-0.2031	-0.1631	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	0.2031	-0.2031	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	0.2031	-0.1631	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	0.2031	0.2031	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	0.2031	0.1631	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	-0.2031	0.2031	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	-0.2031	0.1631	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.2	-0.2031	-0.2031	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.2	-0.2031	-0.1631	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.2	0.2031	-0.2031	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.2	0.2031	-0.1631	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.2	0.2031	0.2031	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.2	0.2031	0.1631	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.2	-0.2031	0.2031	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.2	-0.2031	0.1631	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.3	-0.2031	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2031	-0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	-0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	-0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.2031	0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2031	0.2031	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	-0.2031	0.1631	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.1	0	-0.204	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	0	0.204	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.4	0	-0.204	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.4	0	0.204	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.3	0	-0.204	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0	0.204	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.1	-0.204	0	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	0.204	0	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.4	-0.204	0	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.4	0.204	0	0.026	0.0005309	-5.249	3.75	R 50x50	Armature LC2
p.3	-0.204	0	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.3	0.204	0	0.026	0.0005309	3.751	7.2	R 50x50	Armature LC2
p.1	-0.1631	-0.2031	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	0.1631	-0.2031	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	0.1631	0.2031	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.1	-0.1631	0.2031	0.026	0.0005309	-6.6	-5.25	R 50x50	Armature LC2
p.5	-0.1631	-0.2031	0.026	0.0005309	-5.249	1.4	R 50x50	Armature LC2
p.5	0.1631	-0.2031	0.026	0.0005309	-5.249	1.4	R 50x50	Armature LC2
p.5	0.1631	0.2031	0.026	0.0005309	-5.249	1.4	R 50x50	Armature LC2
p.5	-0.1631	0.2031	0.026	0.0005309	-5.249	1.4	R 50x50	Armature LC2

1.1.11.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.11.3 Verifiche delle sezioni

1.1.11.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
3.75	0.002124	5.1	0	2,3,4	-7.5646	-1.5851	-281.74	-167.2661	-35.0483	SLU 18	22.112	Si
4.04	0.003019	3.4	0	3,4	-6.8212	-1.4327	-279.43	-160.3659	-33.6828	SLU 18	23.51	Si
4.32	0.003914	3.4	0	3,4	-6.0778	-1.2803	-277.11	-151.5287	-31.9212	SLU 18	24.932	Si
4.61	0.00481	3.4	0	3,4	-5.3343	-1.128	-274.8	-140.7055	-29.7534	SLU 18	26.377	Si
4.89	0.005705	3.4	0	3,4	-4.5909	-0.9756	-272.48	-127.8458	-27.1691	SLU 18	27.848	Si
5.18	0.006371	2.5	0	3	-3.8475	-0.8233	-270.17	-111.6585	-23.8926	SLU 18	29.021	Si
5.46	0.006371	2.5	0	3	-3.1041	-0.6709	-267.85	-90.8626	-19.6395	SLU 18	29.272	Si
5.75	0.006371	2.5	0	3	-2.3607	-0.5186	-265.53	-69.704	-15.3122	SLU 18	29.527	Si
6.03	0.005513	2.5	0	3	-1.6173	-0.3662	-263.22	-46.1749	-10.4562	SLU 18	28.551	Si
6.32	0.00417	2.5	0	3	-0.8738	-0.2139	-260.9	-23.465	-5.7431	SLU 18	26.853	Si
6.6	0.002827	2.5	0	3	-0.1435	-0.0642	-258.63	-3.6038	-1.6125	SLU 18	25.12	Si

1.1.11.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.75	0.002124	5.1	0	2,3,4	-254.2296	-49.8799	-173.64	-238.7211	-46.8371	SLV 12	0.939				No
4.04	0.003019	3.4	0	3,4	-229.245	-44.9331	-171.85	-331.6711	-65.0091	SLV 12	1.447				Si
4.32	0.003914	3.4	0	3,4	-204.2604	-39.9863	-170.07	-425.285	-83.2544	SLV 12	2.082				Si
4.61	0.00481	3.4	0	3,4	-179.2757	-35.0395	-168.29	-522.1112	-102.0469	SLV 12	2.912				Si
4.89	0.005705	3.4	0	3,4	-154.2911	-30.0928	-166.51	-622.4989	-121.4116	SLV 12	4.035				Si
5.18	0.006371	2.5	0	3	-129.3064	-25.1461	-164.73	-710.1225	-138.0966	SLV 12	5.492				Si
5.46	0.006371	2.5	0	3	-104.3218	-20.1994	-162.95	-744.6497	-144.1832	SLV 12	7.138				Si
5.75	0.006371	2.5	0	3	-79.3372	-15.2528	-161.17	-803.331	-154.4425	SLV 12	10.126				Si
6.03	0.005513	2.5	0	3	-54.3525	-10.3064	-159.39	-824.3063	-156.3063	SLV 12	15.166				Si
6.32	0.00417	2.5	0	3	-29.3679	-5.361	-157.6	-829.723	-151.4624	SLV 12	28.253				Si
6.6	0.002827	2.5	0	3	-2.0113	-1.1552	-158.03	-118.3826	-67.9965	SLV 16	58.86				Si

1.1.11.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
3.75	0.002124	5.1	0	2,3,4	-111.3734	-22.0617	-172.53	-296.3076	-58.6948	SLD 12	2.66	Si
4.04	0.003019	3.4	0	3,4	-100.4281	-19.8753	-170.75	-416.1112	-82.3506	SLD 12	4.143	Si
4.32	0.003914	3.4	0	3,4	-89.4828	-17.6888	-168.97	-533.8255	-105.5258	SLD 12	5.966	Si
4.61	0.00481	3.4	0	3,4	-78.5375	-15.5024	-167.19	-655.2801	-129.3449	SLD 12	8.344	Si
4.89	0.005705	3.4	0	3,4	-67.5921	-13.316	-165.41	-783.1726	-154.2889	SLD 12	11.587	Si
5.18	0.006371	2.5	0	3	-56.6468	-11.1296	-163.63	-893.6793	-175.584	SLD 12	15.776	Si
5.46	0.006371	2.5	0	3	-45.7015	-8.9432	-161.84	-934.5196	-182.8735	SLD 12	20.448	Si
5.75	0.006371	2.5	0	3	-34.7562	-6.7569	-160.06	-956.2736	-185.9065	SLD 12	27.514	Si
6.03	0.005513	2.5	0	3	-23.8109	-4.5706	-158.28	-864.8407	-166.0102	SLD 12	36.321	Si
6.32	0.00417	2.5	0	3	-12.8655	-2.3848	-156.5	-644.4895	-119.4624	SLD 12	50.094	Si
6.6	0.002827	2.5	0	3	-0.9111	-0.5159	-155.68	-54.4343	-30.824	SLD 16	59.748	Si

1.1.11.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
3.75	0.946	824	0.944	0.27	0.951	SLV 12	No
4.04	1.391	1961	1.347	0.368	1.298	SLV 12	Si
4.32	1.934	1961	1.347	0.368	1.298	SLV 12	Si
4.61	2.623	1961	1.347	0.368	1.298	SLV 12	Si
4.89	3.531	1961	1.347	0.368	1.298	SLV 12	Si
5.18	4.637	1961	1.347	0.368	1.298	SLV 12	Si
5.46	5.758	1961	1.347	0.368	1.298	SLV 5	Si
5.75	7.549	1961	1.347	0.368	1.298	SLV 5	Si
6.03	9.701	1961	1.347	0.368	1.298	SLV 5	Si
6.32	14.066	1961	1.347	0.368	1.298	SLV 5	Si
6.6	58.463	1961	1.347	0.368	1.298	SLV 5	Si

1.1.11.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
3.75	2.21	678	2.183	0.251	2.082	SLD 12	Si
4.04	3.25	1961	3.374	0.368	3.05	SLD 12	Si
4.32	4.521	1961	3.374	0.368	3.05	SLD 12	Si
4.61	6.127	1961	3.374	0.368	3.05	SLD 12	Si
4.89	8.251	1961	3.374	0.368	3.05	SLD 12	Si
5.18	10.844	1961	3.374	0.368	3.05	SLD 12	Si
5.46	13.451	1961	3.374	0.368	3.05	SLD 5	Si
5.75	17.65	1961	3.374	0.368	3.05	SLD 5	Si
6.03	22.676	1961	3.374	0.368	3.05	SLD 5	Si
6.32	32.808	1961	3.374	0.368	3.05	SLD 5	Si
6.6	136.718	1961	3.374	0.368	3.05	SLD 5	Si

1.1.11.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
3.75	2X/2Y ø8/15	0.53	-281.74	SLU 18	156.33	259.61	995.07	2.5	485.64	2.71	-263.67	SLU 13	153.87	259.61	992.52	2.5	95.67	Si
4.04	2X/2Y ø8/15	0.53	-279.43	SLU 18	156.01	259.61	994.74	2.5	485.64	2.71	-261.36	SLU 13	153.55	259.61	992.19	2.5	95.67	Si
4.32	2X/2Y ø8/15	0.53	-277.11	SLU 18	155.7	259.61	994.41	2.5	485.64	2.71	-259.04	SLU 13	153.24	259.61	991.87	2.5	95.67	Si
4.61	2X/2Y ø8/15	0.53	-274.8	SLU 18	155.38	259.61	994.09	2.5	485.64	2.71	-256.73	SLU 13	152.92	259.61	991.54	2.5	95.67	Si
4.89	2X/2Y ø8/15	0.53	-272.48	SLU 18	155.07	259.61	993.76	2.5	485.64	2.71	-254.41	SLU 13	152.61	259.61	991.21	2.5	95.67	Si
5.18	2X/2Y ø8/15	0.53	-270.17	SLU 18	154.75	259.61	993.43	2.5	485.64	2.71	-252.09	SLU 13	152.29	259.61	990.89	2.5	95.67	Si
5.46	2X/2Y ø8/15	0.53	-267.85	SLU 18	154.44	259.61	993.11	2.5	485.64	2.71	-249.78	SLU 13	151.97	259.61	990.56	2.5	95.67	Si
5.75	2X/2Y ø8/10	0.53	-265.53	SLU 18	154.12	389.41	992.78	2.5	728.45	2.71	-247.46	SLU 13	151.66	389.41	990.24	2.5	143.5	Si
6.03	2X/2Y ø8/10	0.53	-263.22	SLU 18	153.81	389.41	992.46	2.5	728.45	2.71	-245.15	SLU 13	151.34	389.41	989.91	2.5	143.5	Si
6.32	2X/2Y ø8/10	0.53	-260.9	SLU 18	153.49	389.41	992.13	2.5	728.45	2.71	-242.83	SLU 13	151.03	389.41	989.58	2.5	143.5	Si
6.6	2X/2Y ø8/10	0.53	-258.63	SLU 18	153.18	389.41	991.81	2.5	728.45	2.71	-240.56	SLU 13	150.72	389.41	989.26	2.5	143.5	Si

1.1.11.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
3.75	2X/2Y ø8/15	33.19	-175.74	SLV 15	141.89	259.61	980.13	2.5	7.82	87.67	-173.64	SLV 12	141.6	259.61	979.83	2.5	2.96	Si
4.04	2X/2Y ø8/15	33.19	-173.96	SLV 15	141.65	259.61	979.88	2.5	7.82	87.67	-171.85	SLV 12	141.36	259.61	979.58	2.5	2.96	Si
4.32	2X/2Y ø8/15	33.19	-172.18	SLV 15	141.41	259.61	979.63	2.5	7.82	87.67	-170.07	SLV 12	141.12	259.61	979.33	2.5	2.96	Si
4.61	2X/2Y ø8/15	33.19	-170.39	SLV 15	141.16	259.61	979.38	2.5	7.82	87.67	-168.29	SLV 12	140.88	259.61	979.08	2.5	2.96	Si
4.89	2X/2Y ø8/15	33.19	-168.61	SLV 15	140.92	259.61	979.13	2.5	7.82	87.67	-166.51	SLV 12	140.63	259.61	978.83	2.5	2.96	Si
5.18	2X/2Y ø8/15	33.19	-166.83	SLV 15	140.68	259.61	978.87	2.5	7.82	87.67	-164.73	SLV 12	140.39	259.61	978.58	2.5	2.96	Si
5.46	2X/2Y ø8/15	33.19	-165.05	SLV 15	140.44	259.61	978.62	2.5	7.82	87.67	-162.95	SLV 12	140.15	259.61	978.33	2.5	2.96	Si
5.75	2X/2Y ø8/10	33.19	-163.27	SLV 15	140.19	389.41	978.37	2.5	11.73	87.67	-161.17	SLV 12	139.91	389.41	978.08	2.5	4.44	Si
6.03	2X/2Y ø8/10	33.19	-161.49	SLV 15	139.95	389.41	978.12	2.5	11.73	87.67	-159.39	SLV 12	139.66	389.41	977.83	2.5	4.44	Si
6.32	2X/2Y ø8/10	33.19	-159.71	SLV 15	139.71	389.41	977.87	2.5	11.73	87.67	-157.6	SLV 12	139.42	389.41	977.57	2.5	4.44	Si
6.6	2X/2Y ø8/10	33.19	-157.96	SLV 15	139.47	389.41	977.62	2.5	11.73	87.67	-155.85	SLV 12	139.18	389.41	977.33	2.5	4.44	Si

1.1.11.3.8 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
3.75	2X/2Y ø8/15	14.42	-173.43	SLD 15	141.58	259.61	979.8	2.5	18	38.4	-172.53	SLD 12	141.45	259.61	979.68	2.5	6.76	Si
4.04	2X/2Y ø8/15	14.42	-171.65	SLD 15	141.33	259.61	979.55	2.5	18	38.4	-170.75	SLD 12	141.21	259.61	979.43	2.5	6.76	Si
4.32	2X/2Y ø8/15	14.42	-169.87	SLD 15	141.09	259.61	979.3	2.5	18	38.4	-168.97	SLD 12	140.97	259.61	979.18	2.5	6.76	Si
4.61	2X/2Y ø8/15	14.42	-168.09	SLD 15	140.85	259.61	979.05	2.5	18	38.4	-167.19	SLD 12	140.73	259.61	978.92	2.5	6.76	Si
4.89	2X/2Y ø8/15	14.42	-166.31	SLD 15	140.61	259.61	978.8	2.5	18	38.4	-165.41	SLD 12	140.48	259.61	978.67	2.5	6.76	Si
5.18	2X/2Y ø8/15	14.42	-164.53	SLD 15	140.36	259.61	978.55	2.5	18	38.4	-163.63	SLD 12	140.24	259.61	978.42	2.5	6.76	Si
5.46	2X/2Y ø8/15	14.42	-162.74	SLD 15	140.12	259.61	978.3	2.5	18	38.4	-161.84	SLD 12	140	259.61	978.17	2.5	6.76	Si
5.75	2X/2Y ø8/10	14.42	-160.96	SLD 15	139.88	389.41	978.05	2.5	27.01	38.4	-160.06	SLD 12	139.76	389.41	977.92	2.5	10.14	Si
6.03	2X/2Y ø8/10	14.42	-159.18	SLD 15	139.64	389.41	977.8	2.5	27.01	38.4	-158.28	SLD 12	139.51	389.41	977.67	2.5	10.14	Si
6.32	2X/2Y ø8/10	14.42	-157.4	SLD 15	139.39	389.41	977.55	2.5	27.01	38.4	-156.5	SLD 12	139.27	389.41	977.42	2.5	10.14	Si
6.6	2X/2Y ø8/10	14.42	-155.65	SLD 15	139.15	389.41	977.3	2.5	27.01	38.4	-154.75	SLD 12	139.03	389.41	977.17	2.5	10.14	Si

1.1.11.3.9 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
3.75	2.998	1961	1.347	0.368	1.298	SLV 12	Si
4.04	2.998	1961	1.347	0.368	1.298	SLV 12	Si
4.32	2.998	1961	1.347	0.368	1.298	SLV 12	Si
4.61	2.998	1961	1.347	0.368	1.298	SLV 12	Si
4.89	2.998	1961	1.347	0.368	1.298	SLV 12	Si
5.18	2.998	1961	1.347	0.368	1.298	SLV 12	Si
5.46	2.998	1961	1.347	0.368	1.298	SLV 12	Si
5.75	4.5	1961	1.347	0.368	1.298	SLV 12	Si
6.03	4.5	1961	1.347	0.368	1.298	SLV 12	Si
6.32	4.5	1961	1.347	0.368	1.298	SLV 12	Si
6.6	4.5	1961	1.347	0.368	1.298	SLV 12	Si

1.1.11.3.10 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
3.75	7.002	1961	3.374	0.368	3.05	SLD 12	Si
4.04	7.002	1961	3.374	0.368	3.05	SLD 12	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
4.32	7.002	1961	3.374	0.368	3.05	SLD 12	Si
4.61	7.002	1961	3.374	0.368	3.05	SLD 12	Si
4.89	7.002	1961	3.374	0.368	3.05	SLD 12	Si
5.18	7.002	1961	3.374	0.368	3.05	SLD 12	Si
5.46	7.002	1961	3.374	0.368	3.05	SLD 12	Si
5.75	10.521	1961	3.374	0.368	3.05	SLD 12	Si
6.03	10.521	1961	3.374	0.368	3.05	SLD 12	Si
6.32	10.521	1961	3.374	0.368	3.05	SLD 12	Si
6.6	10.521	1961	3.374	0.368	3.05	SLD 12	Si

1.1.11.4 Verifiche nodi trave colonna

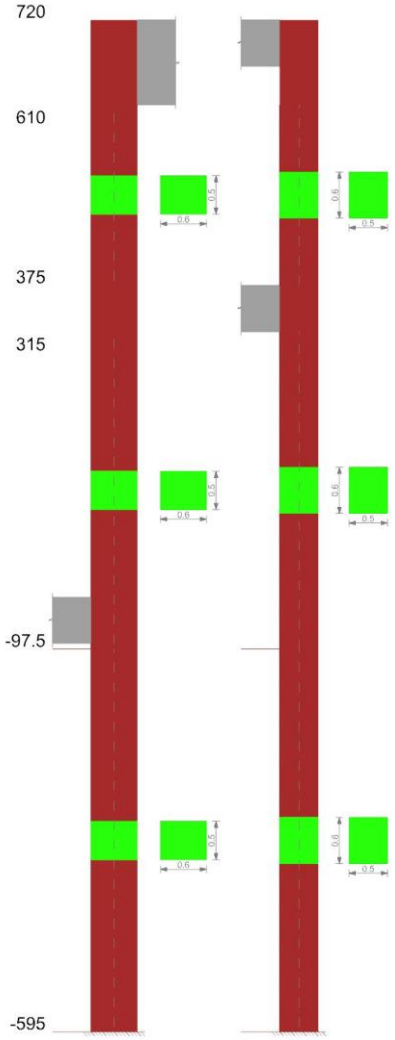
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.11.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.12 P17

Geometria



1.1.12.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.12.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.95	-0.98	R 60x50	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2; Armature LC3_FC = 1	1.2
-0.98	3.15	R 60x50	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2; Armature LC3_FC = 1	1.2
3.75	6.1	R 60x50	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2; Armature LC3_FC = 1	1.2

1.1.12.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2031	0.026	0.0005309	-6.7	-5.25		Armature LC2
p.1	0.2531	-0.2031	0.026	0.0005309	-6.7	-5.25		Armature LC2
p.1	0.2531	0.2031	0.026	0.0005309	-6.7	-5.25		Armature LC2
p.1	-0.2531	0.2031	0.026	0.0005309	-6.7	-5.25		Armature LC2
p.2	-0.2531	-0.2031	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	-0.2531	-0.1631	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	-0.2131	-0.2031	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	0.2531	-0.2031	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	0.2531	-0.1631	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	0.2131	-0.2031	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	0.2531	0.2031	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	0.2531	0.1631	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	0.2131	0.2031	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	-0.2531	0.2031	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	-0.2531	0.1631	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.2	-0.2131	0.2031	0.026	0.0005309	-5.249	7.2	R 60x50	Armature LC2
p.3	0	-0.207	0.02	0.0003142	-6.7	-5.25		Armature LC3
p.3	0	0.207	0.02	0.0003142	-6.7	-5.25		Armature LC3
p.4	0	-0.207	0.02	0.0003142	-5.249	7.2	R 60x50	Armature LC3
p.4	0	0.207	0.02	0.0003142	-5.249	7.2	R 60x50	Armature LC3
p.3	-0.257	0	0.02	0.0003142	-6.7	-5.25		Armature LC3
p.3	0.257	0	0.02	0.0003142	-6.7	-5.25		Armature LC3
p.4	-0.257	0	0.02	0.0003142	-5.249	7.2	R 60x50	Armature LC3
p.4	0.257	0	0.02	0.0003142	-5.249	7.2	R 60x50	Armature LC3

1.1.12.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.12.3 Verifiche delle sezioni

1.1.12.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.00338	1.1	0	1,3	-6.8314	-64.3283	-1157.66	-44.5446	-419.4574	SLU 18	6.521	Si
-5.9	0.00338	1.1	0	1,3	-6.7986	-63.4714	-1157.13	-44.4762	-415.2272	SLU 18	6.542	Si
-5.6	0.00338	1.1	0	1,3	-6.6199	-58.8017	-1154.2	-44.091	-391.6432	SLU 18	6.66	Si
-5.29	0.00338	1.1	0	1,3	-6.4382	-54.0542	-1151.23	-43.654	-366.5143	SLU 18	6.78	Si
-4.99	0.00421	3.7	0	1,2,3,4	-6.2572	-49.3247	-1148.27	-44.3948	-349.9605	SLU 18	7.095	Si
-4.68	0.005167	3.7	0	1,2,3,4	-6.0748	-44.5591	-1145.29	-45.1382	-331.0936	SLU 18	7.43	Si
-4.38	0.006124	3.3	0	1,2,4	-5.8931	-39.8116	-1142.32	-45.7745	-309.2369	SLU 18	7.768	Si
-4.07	0.007082	3.3	0	1,2,4	-5.7114	-35.0641	-1139.35	-46.2984	-284.2412	SLU 18	8.106	Si
-3.77	0.007628	2.5	0	2,4	-5.5297	-30.3165	-1136.38	-45.9506	-251.9246	SLU 18	8.31	Si
-3.46	0.007628	2.5	0	2,4	-5.348	-25.569	-1133.41	-44.5571	-213.0304	SLU 18	8.332	Si
-3.16	0.007628	2.5	0	2,4	-5.1663	-20.8215	-1130.44	-43.1564	-173.9318	SLU 18	8.353	Si
-2.85	0.007628	2.5	0	2,4	-4.9846	-16.0739	-1127.47	-41.7483	-134.6271	SLU 18	8.375	Si
-2.55	0.007628	2.5	0	2,4	-4.8029	-11.3264	-1124.5	-40.3327	-95.1148	SLU 18	8.398	Si
-2.24	0.007628	2.5	0	2,4	-4.6212	-6.5789	-1121.53	-38.9097	-55.3931	SLU 18	8.42	Si
-1.94	0.007628	2.5	0	2,4	-4.4388	-1.8133	-1118.55	-37.4736	-15.3082	SLU 18	8.442	Si
-1.63	0.007628	2.5	0	2,4	-4.2578	2.9162	-1115.59	-36.0408	24.6848	SLU 18	8.465	Si
-1.33	0.007628	2.5	0	2,4	-4.0761	7.6637	-1112.62	-34.5949	65.0445	SLU 18	8.487	Si
-1.14	0.007628	2.5	0	2,4	-3.9603	10.6898	-1110.72	-33.6692	90.8819	SLU 18	8.502	Si
-1.03	0.007628	2.5	0	2,4	-3.8974	12.3334	-1109.69	-33.1651	104.9527	SLU 18	8.51	Si
-0.98	0.007628	2.5	0	2,4	-3.8663	13.1904	-738.42	-49.4425	168.6807	SLU 18	12.788	Si
-0.93	0.007628	2.5	0	2,4	-3.8335	12.9851	-737.89	-49.0587	166.1771	SLU 18	12.797	Si
-0.63	0.007628	2.5	0	2,4	-3.6629	11.9178	-735.1	-47.0533	153.0964	SLU 18	12.846	Si
-0.34	0.007628	2.5	0	2,4	-3.4893	10.8318	-732.26	-44.9972	139.6848	SLU 18	12.896	Si
-0.05	0.007628	2.5	0	2,4	-3.3157	9.7458	-729.42	-42.9251	126.1688	SLU 18	12.946	Si
0.24	0.007628	2.5	0	2,4	-3.1421	8.6598	-726.59	-40.8369	112.5472	SLU 18	12.997	Si
0.53	0.007628	2.5	0	2,4	-2.9685	7.5738	-723.75	-38.7322	98.8188	SLU 18	13.048	Si
0.82	0.007628	2.5	0	2,4	-2.795	6.4878	-720.91	-36.611	84.9823	SLU 18	13.099	Si
1.11	0.007628	2.5	0	2,4	-2.6214	5.4017	-718.07	-34.4729	71.0365	SLU 18	13.151	Si
1.4	0.007628	2.5	0	2,4	-2.4478	4.3157	-715.23	-32.318	56.9799	SLU 18	13.203	Si
1.69	0.007628	2.5	0	2,4	-2.2742	3.2297	-712.4	-30.1458	42.8114	SLU 18	13.255	Si
1.99	0.007628	2.5	0	2,4	-2.1006	2.1437	-709.56	-27.9563	28.5296	SLU 18	13.308	Si
2.28	0.007628	2.5	0	2,4	-1.9271	1.0577	-706.72	-25.7492	14.133	SLU 18	13.362	Si
2.57	0.007628	2.5	0	2,4	-1.7535	-0.0283	-703.88	-23.5243	-0.3796	SLU 18	13.416	Si
2.86	0.007628	2.5	0	2,4	-1.5799	-1.1143	-701.04	-21.2814	-15.0098	SLU 18	13.47	Si
3.15	0.007628	2.5	0	2,4	-1.4093	-2.1817	-698.25	-19.0593	-29.5045	SLU 18	13.524	Si
3.75	0.007628	2.5	0	2,4	-1.0917	-3.4543	-539.82	-19.097	-60.4267	SLU 18	17.493	Si
4.04	0.007628	2.5	0	2,4	-0.9799	-3.1043	-536.96	-17.2336	-54.5937	SLU 18	17.586	Si
4.34	0.007628	2.5	0	2,4	-0.8682	-2.7543	-534.1	-15.3502	-48.6983	SLU 18	17.681	Si
4.63	0.007628	2.5	0	2,4	-0.7564	-2.4043	-531.23	-13.4465	-42.7392	SLU 18	17.776	Si
4.93	0.007628	2.5	0	2,4	-0.6447	-2.0543	-528.37	-11.5221	-36.7156	SLU 18	17.872	Si
5.22	0.007628	2.5	0	2,4	-0.5329	-1.7043	-525.5	-9.5768	-30.6262	SLU 18	17.97	Si
5.51	0.007628	2.5	0	2,4	-0.4212	-1.3543	-522.64	-7.6101	-24.4702	SLU 18	18.068	Si
5.81	0.007628	2.5	0	2,4	-0.3094	-1.0043	-519.77	-5.6218	-18.2463	SLU 18	18.168	Si
6.1	0.00644	2.5	0	2,4	-0.1996	-0.6603	-516.96	-3.472	-11.486	SLU 18	17.396	Si

1.1.12.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-5.95	0.00338	1.1	0	1,3	-54.2077	-82.7254	-740.35	-509.6436	-777.7579	SLV 15	9.402				Si
-5.9	0.00338	1.1	0	1,3	-53.9169	-81.6012	-739.93	-510.9382	-773.2853	SLV 15	9.476				Si
-5.6	0.00338	1.1	0	1,3	-52.3607	-75.6989	-737.69	-517.9028	-748.7425	SLV 15	9.891				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-5.29	0.00338	1.1	0	1,3	-50.0364	-71.2405	-735.72	-514.3572	-732.3282	SLV 16	10.28				Si
-4.99	0.00421	3.7	0	1,2,3,4	-48.6772	-66.5806	-733.44	-535.6841	-732.7081	SLV 16	11.005				Si
-4.68	0.005167	3.7	0	1,2,3,4	-47.3698	-62.7087	-731.15	-557.4351	-737.9391	SLV 16	11.768				Si
-4.38	0.006124	3.3	0	1,2,4	-46.1226	-59.6574	-728.87	-574.5065	-743.0969	SLV 16	12.456				Si
-4.07	0.007082	3.3	0	1,2,4	-44.9259	-57.3609	-726.58	-589.2239	-752.3143	SLV 16	13.115				Si
-3.77	0.007628	2.5	0	2,4	-43.7753	-55.746	-724.3	-593.7884	-756.1643	SLV 16	13.564				Si
-3.46	0.007628	2.5	0	2,4	-42.6674	-54.7568	-722.01	-586.191	-752.2831	SLV 16	13.739				Si
-3.16	0.007628	2.5	0	2,4	-41.5993	-54.3839	-719.72	-576.918	-754.2219	SLV 16	13.868				Si
-2.85	0.007628	2.5	0	2,4	-40.5692	-54.6263	-717.44	-566.06	-762.1978	SLV 16	13.953				Si
-2.55	0.007628	2.5	0	2,4	-39.5762	-55.3942	-715.15	-554.1428	-775.626	SLV 16	14.002				Si
-2.24	0.007628	2.5	0	2,4	-38.6202	-56.5309	-712.87	-541.6397	-792.8328	SLV 16	14.025				Si
-1.94	0.007628	2.5	0	2,4	-37.6992	-57.9163	-710.58	-528.8892	-812.5198	SLV 16	14.029				Si
-1.63	0.007628	2.5	0	2,4	-36.8268	-52.4386	-708.3	-533.4131	-759.5401	SLV 16	14.484				Si
-1.33	0.007628	2.5	0	2,4	-35.9959	-52.1185	-706.01	-525.5119	-760.8901	SLV 16	14.599				Si
-1.14	0.007628	2.5	0	2,4	-49.3653	42.1679	-691.75	-704.8619	602.0949	SLV 8	14.279				Si
-1.03	0.007628	2.5	0	2,4	-50.1363	44.5181	-690.96	-705.1128	626.0984	SLV 8	14.064				Si
-0.98	0.007628	2.5	0	2,4	-50.9064	45.7434	-442.58	-830.8619	746.5952	SLV 8	16.321				Si
-0.93	0.007628	2.5	0	2,4	-51.3101	45.3398	-442.17	-836.8724	739.4954	SLV 8	16.31				Si
-0.63	0.007628	2.5	0	2,4	-53.4143	43.2909	-440.03	-867.4533	703.049	SLV 8	16.24				Si
-0.34	0.007628	2.5	0	2,4	-55.5619	41.3352	-437.84	-896.9199	667.2627	SLV 8	16.143				Si
-0.05	0.007628	2.5	0	2,4	-57.7092	39.5249	-435.66	-925.1658	633.6442	SLV 8	16.032				Si
0.24	0.007628	2.5	0	2,4	-59.8489	37.8751	-433.48	-951.623	602.2292	SLV 8	15.9				Si
0.53	0.007628	2.5	0	2,4	-61.9729	36.3984	-431.29	-975.4797	572.9259	SLV 8	15.74				Si
0.82	0.007628	2.5	0	2,4	-64.0725	35.1043	-429.11	-997.42	546.4701	SLV 8	15.567				Si
1.11	0.007628	2.5	0	2,4	-66.1392	33.9979	-426.93	-1017.6384	523.1014	SLV 8	15.386				Si
1.4	0.007628	2.5	0	2,4	-68.9491	33.0797	-424.74	-1039.9433	498.933	SLV 8	15.083				Si
1.69	0.007628	2.5	0	2,4	-76.0306	32.346	-422.56	-1082.2108	460.4091	SLV 8	14.234				Si
1.99	0.007628	2.5	0	2,4	-78.044	31.7898	-420.38	-1096.1841	446.5105	SLV 8	14.046				Si
2.28	0.007628	2.5	0	2,4	-80.1233	31.402	-418.19	-1106.3993	433.6202	SLV 8	13.809				Si
2.57	0.007628	2.5	0	2,4	-82.2629	31.1725	-416.01	-1114.0601	422.1596	SLV 8	13.543				Si
2.86	0.007628	2.5	0	2,4	84.8819	-31.865	-409.12	1116.9889	-419.322	SLV 9	13.159				Si
3.15	0.007628	2.5	0	2,4	87.6279	-33.2214	-406.98	1115.8508	-423.0405	SLV 9	12.734				Si
3.75	0.007628	2.5	0	2,4	85.6583	-33.1225	-301.64	1084.9601	-419.5341	SLV 9	12.666				Si
4.04	0.007628	2.5	0	2,4	76.966	-29.7588	-299.44	1097.8257	-424.4726	SLV 9	14.264				Si
4.34	0.007628	2.5	0	2,4	68.2739	-26.3951	-297.23	1111.5493	-429.7318	SLV 9	16.281				Si
4.63	0.007628	2.5	0	2,4	59.5821	-23.0315	-295.03	1110.6057	-429.3052	SLV 9	18.64				Si
4.93	0.007628	2.5	0	2,4	50.8907	-19.6679	-292.83	1092.1635	-422.0928	SLV 9	21.461				Si
5.22	0.007628	2.5	0	2,4	42.1999	-16.3045	-290.62	1050.1138	-405.7245	SLV 9	24.884				Si
5.51	0.007628	2.5	0	2,4	33.5103	-12.9412	-288.42	980.4603	-378.6389	SLV 9	29.258				Si
5.81	0.007628	2.5	0	2,4	24.823	-9.5782	-286.22	860.7533	-332.1307	SLV 9	34.676				Si
6.1	0.00644	2.5	0	2,4	16.2898	-6.2735	-284.05	641.6851	-247.124	SLV 9	39.392				Si

1.1.12.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.00338	1.1	0	1,3	-27.5381	-60.6736	-732	-341.4487	-752.3002	SLD 16	12.399	Si
-5.9	0.00338	1.1	0	1,3	-27.3887	-59.8616	-731.58	-341.4254	-746.2312	SLD 16	12.466	Si
-5.6	0.00338	1.1	0	1,3	-26.5865	-55.5325	-729.34	-341.1413	-712.558	SLD 16	12.831	Si
-5.29	0.00338	1.1	0	1,3	-25.8008	-51.398	-727.05	-340.6177	-678.5484	SLD 16	13.202	Si
-4.99	0.00421	3.7	0	1,2,3,4	-25.0461	-47.59	-724.78	-349.3864	-663.8684	SLD 16	13.95	Si
-4.68	0.005167	3.7	0	1,2,3,4	-24.3127	-44.1059	-722.48	-358.4735	-650.3105	SLD 16	14.744	Si
-4.38	0.006124	3.3	0	1,2,4	-23.6062	-40.9811	-720.2	-366.6026	-636.4326	SLD 16	15.53	Si
-4.07	0.007082	3.3	0	1,2,4	-22.9218	-38.1807	-717.91	-373.4531	-622.0601	SLD 16	16.293	Si
-3.77	0.007628	2.5	0	2,4	-22.2576	-35.674	-715.63	-375.0641	-601.1456	SLD 16	16.851	Si
-3.46	0.007628	2.5	0	2,4	-21.6121	-33.4371	-713.34	-370.1529	-572.6819	SLD 16	17.127	Si
-3.16	0.007628	2.5	0	2,4	-20.9842	-31.467	-711.06	-364.6634	-546.8349	SLD 16	17.378	Si
-2.85	0.007628	2.5	0	2,4	-20.373	-29.764	-708.77	-358.7532	-524.122	SLD 16	17.609	Si
-2.55	0.007628	2.5	0	2,4	-19.7781	-28.2888	-706.49	-352.5773	-504.2948	SLD 16	17.827	Si
-2.24	0.007628	2.5	0	2,4	-19.1996	-26.9728	-704.2	-346.257	-486.4441	SLD 16	18.035	Si
-1.94	0.007628	2.5	0	2,4	-18.6358	-25.7569	-701.91	-339.8273	-469.6813	SLD 16	18.235	Si
-1.63	0.007628	2.5	0	2,4	-26.6635	-1.2578	-697.52	-490.2516	-23.1268	SLD 12	18.387	Si
-1.33	0.007628	2.5	0	2,4	-27.1224	3.2612	-695.24	-498.8023	59.9756	SLD 12	18.391	Si
-1.14	0.007628	2.5	0	2,4	-23.1801	21.9401	-690.41	-424.2847	401.5878	SLD 8	18.304	Si
-1.03	0.007628	2.5	0	2,4	-23.4518	23.5765	-689.62	-425.9781	428.2435	SLD 8	18.164	Si
-0.98	0.007628	2.5	0	2,4	-23.7549	24.4298	-441.24	-583.1249	599.691	SLD 8	24.548	Si
-0.93	0.007628	2.5	0	2,4	-23.8974	24.1852	-440.83	-587.156	594.2288	SLD 8	24.57	Si
-0.63	0.007628	2.5	0	2,4	-24.6402	22.9349	-438.68	-608.1906	566.0982	SLD 8	24.683	Si
-0.34	0.007628	2.5	0	2,4	-25.399	21.7175	-436.5	-629.4533	538.216	SLD 8	24.783	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.05	0.007628	2.5	0	2,4	-26.1578	20.562	-434.32	-650.308	511.1908	SLD 8	24.861	Si
0.24	0.007628	2.5	0	2,4	-26.9134	19.4748	-432.13	-670.9009	485.4691	SLD 8	24.928	Si
0.53	0.007628	2.5	0	2,4	-27.6622	18.4612	-429.95	-690.7589	460.9977	SLD 8	24.971	Si
0.82	0.007628	2.5	0	2,4	-28.4005	17.5253	-427.77	-710.1526	438.2193	SLD 8	25.005	Si
1.11	0.007628	2.5	0	2,4	-29.1247	16.6695	-425.58	-729.0677	417.2814	SLD 8	25.033	Si
1.4	0.007628	2.5	0	2,4	-30.1697	15.894	-423.4	-752.3918	396.3749	SLD 8	24.939	Si
1.69	0.007628	2.5	0	2,4	-33.0605	15.1975	-421.22	-804.2138	369.6859	SLD 8	24.326	Si
1.99	0.007628	2.5	0	2,4	-33.7664	14.577	-419.03	-820.3885	354.1619	SLD 8	24.296	Si
2.28	0.007628	2.5	0	2,4	-34.5006	14.0288	-416.85	-836.5017	340.1416	SLD 8	24.246	Si
2.57	0.007628	2.5	0	2,4	-35.2605	13.5487	-414.67	-851.9171	327.3451	SLD 8	24.161	Si
2.86	0.007628	2.5	0	2,4	36.4694	-13.9059	-410.47	872.5211	-332.695	SLD 9	23.925	Si
3.15	0.007628	2.5	0	2,4	37.8043	-14.8558	-408.32	889.3182	-349.4723	SLD 9	23.524	Si
3.75	0.007628	2.5	0	2,4	37.153	-15.2618	-302.47	992.3208	-407.6279	SLD 9	26.709	Si
4.04	0.007628	2.5	0	2,4	33.3825	-13.7123	-300.26	957.9544	-393.4916	SLD 9	28.696	Si
4.34	0.007628	2.5	0	2,4	29.6121	-12.1628	-298.06	914.2611	-375.5206	SLD 9	30.875	Si
4.63	0.007628	2.5	0	2,4	25.8418	-10.6133	-295.86	860.161	-353.2704	SLD 9	33.286	Si
4.93	0.007628	2.5	0	2,4	22.0717	-9.0639	-293.66	791.8357	-325.1717	SLD 9	35.876	Si
5.22	0.007628	2.5	0	2,4	18.3017	-7.5144	-291.45	706.9067	-290.2459	SLD 9	38.625	Si
5.51	0.007628	2.5	0	2,4	14.5323	-5.9651	-289.25	603.9394	-247.901	SLD 9	41.559	Si
5.81	0.007628	2.5	0	2,4	-1.2804	-4.5659	-291.34	-56.7255	-202.2759	SLD 16	44.302	Si
6.1	0.00644	2.5	0	2,4	-0.8368	-2.9807	-289.17	-35.9333	-127.9953	SLD 16	42.941	Si

1.1.12.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-5.95	9.13	1961	1.347	0.368	1.298	SLV 15	Si
-5.9	9.203	1961	1.347	0.368	1.298	SLV 15	Si
-5.6	9.584	1961	1.347	0.368	1.298	SLV 2	Si
-5.29	9.892	1961	1.347	0.368	1.298	SLV 2	Si
-4.99	11.518	1961	1.347	0.368	1.298	SLV 2	Si
-4.68	13.363	1961	1.347	0.368	1.298	SLV 2	Si
-4.38	15.18	1961	1.347	0.368	1.298	SLV 2	Si
-4.07	16.954	1961	1.347	0.368	1.298	SLV 2	Si
-3.77	17.923	1961	1.347	0.368	1.298	SLV 1	Si
-3.46	17.771	1961	1.347	0.368	1.298	SLV 1	Si
-3.16	17.469	1961	1.347	0.368	1.298	SLV 1	Si
-2.85	16.924	1961	1.347	0.368	1.298	SLV 1	Si
-2.55	16.288	1961	1.347	0.368	1.298	SLV 5	Si
-2.24	15.604	1961	1.347	0.368	1.298	SLV 1	Si
-1.94	14.857	1961	1.347	0.368	1.298	SLV 1	Si
-1.63	15.297	1961	1.347	0.368	1.298	SLV 1	Si
-1.33	14.799	1961	1.347	0.368	1.298	SLV 1	Si
-1.14	14.33	1961	1.347	0.368	1.298	SLV 3	Si
-1.03	13.993	1961	1.347	0.368	1.298	SLV 3	Si
-0.98	13.056	1961	1.347	0.368	1.298	SLV 3	Si
-0.93	13.144	1961	1.347	0.368	1.298	SLV 3	Si
-0.63	13.012	1961	1.347	0.368	1.298	SLV 5	Si
-0.34	12.616	1961	1.347	0.368	1.298	SLV 5	Si
-0.05	12.25	1961	1.347	0.368	1.298	SLV 5	Si
0.24	11.884	1961	1.347	0.368	1.298	SLV 5	Si
0.53	11.532	1961	1.347	0.368	1.298	SLV 5	Si
0.82	11.195	1961	1.347	0.368	1.298	SLV 5	Si
1.11	10.873	1961	1.347	0.368	1.298	SLV 5	Si
1.4	10.668	1961	1.347	0.368	1.298	SLV 5	Si
1.69	10.097	1961	1.347	0.368	1.298	SLV 9	Si
1.99	9.804	1961	1.347	0.368	1.298	SLV 9	Si
2.28	9.525	1961	1.347	0.368	1.298	SLV 9	Si
2.57	9.247	1961	1.347	0.368	1.298	SLV 9	Si
2.86	8.983	1961	1.347	0.368	1.298	SLV 9	Si
3.15	8.72	1961	1.347	0.368	1.298	SLV 9	Si
3.75	8.778	1961	1.347	0.368	1.298	SLV 9	Si
4.04	9.76	1961	1.347	0.368	1.298	SLV 9	Si
4.34	10.99	1961	1.347	0.368	1.298	SLV 9	Si
4.63	12.587	1961	1.347	0.368	1.298	SLV 9	Si
4.93	14.711	1961	1.347	0.368	1.298	SLV 9	Si
5.22	17.741	1961	1.347	0.368	1.298	SLV 9	Si
5.51	22.282	1961	1.347	0.368	1.298	SLV 9	Si
5.81	30.002	1961	1.347	0.368	1.298	SLV 9	Si
6.1	39.514	1961	1.347	0.368	1.298	SLV 9	Si

1.1.12.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-5.95	21.253	1961	3.374	0.368	3.05	SLD 15	Si
-5.9	21.435	1961	3.374	0.368	3.05	SLD 15	Si
-5.6	22.343	1961	3.374	0.368	3.05	SLD 2	Si
-5.29	23.039	1961	3.374	0.368	3.05	SLD 2	Si
-4.99	26.854	1961	3.374	0.368	3.05	SLD 2	Si
-4.68	31.152	1961	3.374	0.368	3.05	SLD 2	Si
-4.38	35.422	1961	3.374	0.368	3.05	SLD 2	Si
-4.07	39.575	1961	3.374	0.368	3.05	SLD 2	Si
-3.77	41.852	1961	3.374	0.368	3.05	SLD 1	Si
-3.46	41.482	1961	3.374	0.368	3.05	SLD 1	Si
-3.16	40.744	1961	3.374	0.368	3.05	SLD 1	Si
-2.85	39.575	1961	3.374	0.368	3.05	SLD 1	Si
-2.55	38.037	1961	3.374	0.368	3.05	SLD 5	Si
-2.24	36.438	1961	3.374	0.368	3.05	SLD 1	Si
-1.94	34.653	1961	3.374	0.368	3.05	SLD 1	Si
-1.63	35.761	1961	3.374	0.368	3.05	SLD 1	Si
-1.33	34.592	1961	3.374	0.368	3.05	SLD 1	Si
-1.14	33.484	1961	3.374	0.368	3.05	SLD 3	Si
-1.03	32.654	1961	3.374	0.368	3.05	SLD 3	Si
-0.98	30.486	1961	3.374	0.368	3.05	SLD 3	Si
-0.93	30.668	1961	3.374	0.368	3.05	SLD 3	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.63	30.396	1961	3.374	0.368	3.05	SLD 5	Si
-0.34	29.487	1961	3.374	0.368	3.05	SLD 5	Si
-0.05	28.609	1961	3.374	0.368	3.05	SLD 5	Si
0.24	27.762	1961	3.374	0.368	3.05	SLD 5	Si
0.53	26.975	1961	3.374	0.368	3.05	SLD 5	Si
0.82	26.188	1961	3.374	0.368	3.05	SLD 5	Si
1.11	25.4	1961	3.374	0.368	3.05	SLD 5	Si
1.4	24.916	1961	3.374	0.368	3.05	SLD 5	Si
1.69	23.584	1961	3.374	0.368	3.05	SLD 9	Si
1.99	22.918	1961	3.374	0.368	3.05	SLD 9	Si
2.28	22.252	1961	3.374	0.368	3.05	SLD 9	Si
2.57	21.586	1961	3.374	0.368	3.05	SLD 9	Si
2.86	20.98	1961	3.374	0.368	3.05	SLD 9	Si
3.15	20.375	1961	3.374	0.368	3.05	SLD 9	Si
3.75	20.496	1961	3.374	0.368	3.05	SLD 9	Si
4.04	22.797	1961	3.374	0.368	3.05	SLD 9	Si
4.34	25.673	1961	3.374	0.368	3.05	SLD 9	Si
4.63	29.396	1961	3.374	0.368	3.05	SLD 9	Si
4.93	34.346	1961	3.374	0.368	3.05	SLD 9	Si
5.22	41.421	1961	3.374	0.368	3.05	SLD 9	Si
5.51	52.064	1961	3.374	0.368	3.05	SLD 9	Si
5.81	70.081	1961	3.374	0.368	3.05	SLD 9	Si
6.1	92.405	1961	3.374	0.368	3.05	SLD 9	Si

1.1.12.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95		15.07	-1034.6	SLU 19	280.45	0	1915.67	1	18.61	2.41	-838.04	SLU 14	257.1	0	1845.67	1	106.66	Si
-5.9		15.07	-1034.06	SLU 19	280.38	0	1915.56	1	18.6	2.41	-837.51	SLU 14	257.02	0	1845.56	1	106.63	Si
-5.6		15.07	-1031.14	SLU 19	279.97	0	1914.95	1	18.57	2.41	-834.58	SLU 14	256.62	0	1844.96	1	106.47	Si
-5.29		15.07	-1028.17	SLU 19	279.55	0	1914.33	1	18.55	2.41	-831.61	SLU 14	256.22	0	1844.35	1	106.3	Si
-4.99	2X/2Y ø8/10	15.58	-1148.27	SLU 18	296.28	477.76	1337.53	2.5	30.66	2.41	-828.65	SLU 14	255.81	391.99	1271.54	2.5	162.63	Si
-4.68	2X/2Y ø8/10	15.58	-1145.29	SLU 18	295.86	477.76	1337.1	2.5	30.66	2.41	-825.67	SLU 14	255.4	391.99	1271.12	2.5	162.63	Si
-4.38	2X/2Y ø8/10	15.58	-1142.32	SLU 18	295.45	477.76	1336.67	2.5	30.66	2.41	-822.7	SLU 14	254.99	391.99	1270.7	2.5	162.63	Si
-4.07	2X/2Y ø8/10	15.58	-1139.35	SLU 18	295.04	477.76	1336.24	2.5	30.66	2.41	-819.73	SLU 14	254.59	391.99	1270.28	2.5	162.63	Si
-3.77	2X/2Y ø8/10	15.58	-1136.38	SLU 18	294.62	477.76	1335.81	2.5	30.66	2.41	-816.76	SLU 14	254.18	391.99	1269.86	2.5	162.63	Si
-3.46	2X/2Y ø8/10	15.58	-1133.41	SLU 18	294.21	477.76	1335.38	2.5	30.66	2.41	-813.79	SLU 14	253.77	391.99	1269.44	2.5	162.63	Si
-3.16	2X/2Y ø8/14.9	15.58	-1130.44	SLU 18	293.8	320.29	1334.96	2.5	20.56	2.41	-810.82	SLU 14	253.36	262.78	1269.01	2.5	109.02	Si
-2.85	2X/2Y ø8/14.9	15.58	-1127.47	SLU 18	293.38	320.29	1334.53	2.5	20.56	2.41	-807.85	SLU 14	252.96	262.78	1268.59	2.5	109.02	Si
-2.55	2X/2Y ø8/14.9	15.58	-1124.5	SLU 18	292.97	320.29	1334.1	2.5	20.56	2.41	-804.88	SLU 14	252.55	262.78	1268.17	2.5	109.02	Si
-2.24	2X/2Y ø8/14.9	15.58	-1121.53	SLU 18	292.55	320.29	1333.67	2.5	20.56	2.41	-801.91	SLU 14	252.14	262.78	1267.75	2.5	109.02	Si
-1.94	2X/2Y ø8/14.9	15.58	-1118.55	SLU 18	292.14	320.29	1333.24	2.5	20.56	2.41	-798.93	SLU 14	251.73	262.78	1267.33	2.5	109.02	Si
-1.63	2X/2Y ø8/14.9	15.58	-1115.59	SLU 18	291.73	320.29	1332.82	2.5	20.56	2.41	-795.97	SLU 14	251.33	262.78	1266.91	2.5	109.02	Si
-1.33	2X/2Y ø8/14.9	15.58	-1112.62	SLU 18	291.31	320.29	1332.39	2.5	20.56	2.41	-793	SLU 14	250.92	262.78	1266.49	2.5	109.02	Si
-1.14	2X/2Y ø8/14.9	15.58	-1110.72	SLU 18	291.05	320.29	1332.12	2.5	20.56	2.41	-791.1	SLU 14	250.66	262.78	1266.22	2.5	109.02	Si
-1.03	2X/2Y ø8/14.9	15.58	-1109.69	SLU 18	290.91	320.29	1331.97	2.5	20.56	2.41	-790.07	SLU 14	250.52	262.78	1266.07	2.5	109.02	Si
-0.98	2X/2Y ø8/14.9	-3.73	-738.42	SLU 18	239.21	320.29	1278.49	2.5	85.84	2.41	-588.13	SLU 14	222.83	262.78	1237.43	2.5	109.02	Si
-0.93	2X/2Y ø8/14.9	-3.73	-737.89	SLU 18	239.13	320.29	1278.41	2.5	85.84	2.41	-587.59	SLU 14	222.76	262.78	1237.35	2.5	109.02	Si
-0.63	2X/2Y ø8/14.9	-3.73	-735.1	SLU 18	238.74	320.29	1278.01	2.5	85.84	2.41	-584.8	SLU 14	222.38	262.78	1236.96	2.5	109.02	Si
-0.34	2X/2Y ø8/14.9	-3.73	-732.26	SLU 18	238.35	320.29	1277.6	2.5	85.84	2.41	-581.96	SLU 14	221.99	262.78	1236.56	2.5	109.02	Si
-0.05	2X/2Y ø8/14.9	-3.73	-729.42	SLU 18	237.95	320.29	1277.19	2.5	85.84	2.41	-579.13	SLU 14	221.6	262.78	1236.15	2.5	109.02	Si
0.24	2X/2Y ø8/14.9	-3.73	-726.59	SLU 18	237.56	320.29	1276.78	2.5	85.84	2.41	-576.29	SLU 14	221.21	262.78	1235.75	2.5	109.02	Si
0.53	2X/2Y ø8/14.9	-3.73	-723.75	SLU 18	237.16	320.29	1276.37	2.5	85.84	2.41	-573.45	SLU 14	220.82	262.78	1235.35	2.5	109.02	Si
0.82	2X/2Y ø8/14.9	-3.73	-720.91	SLU 18	236.77	320.29	1275.96	2.5	85.84	2.41	-570.61	SLU 14	220.43	262.78	1234.95	2.5	109.02	Si
1.11	2X/2Y ø8/14.9	-3.73	-718.07	SLU 18	236.37	320.29	1275.55	2.5	85.84	2.41	-567.77	SLU 14	220.04	262.78	1234.54	2.5	109.02	Si
1.4	2X/2Y ø8/14.9	-3.73	-715.23	SLU 18	235.98	320.29	1275.15	2.5	85.84	2.41	-564.94	SLU 14	219.65	262.78	1234.14	2.5	109.02	Si
1.69	2X/2Y ø8/14.9	-3.73	-712.4	SLU 18	235.58	320.29	1274.74	2.5	85.84	2.41	-562.1	SLU 14	219.27	262.78	1233.74	2.5	109.02	Si
1.99	2X/2Y ø8/14.9	-3.73	-709.56	SLU 18	235.19	320.29	1274.33	2.5	85.84	2.41	-559.26	SLU 14	218.88	262.78	1233.34	2.5	109.02	Si
2.28	2X/2Y ø8/14.9	-3.73	-706.72	SLU 18	234.79	320.29	1273.92	2.5	85.84	2.41	-556.42	SLU 14	218.49	262.78	1232.93	2.5	109.02	Si
2.57	2X/2Y ø8/14.9	-3.73	-703.88	SLU 18	234.4	320.29	1273.51	2.5	85.84	2.41	-553.58	SLU 14	218.1	262.78	1232.53	2.5	109.02	Si
2.86	2X/2Y ø8/14.9	-3.73	-701.04	SLU 18	234	320.29	1273.1	2.5	85.84	2.41	-550.75	SLU 14	217.71	262.78	1232.13	2.5	109.02	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
3.15	2X/2Y ø8/14.9	-3.73	-698.25	SLU 18	233.61	320.29	1272.7	2.5	85.84	2.41	-547.96	SLU 14	217.33	262.78	1231.73	2.5	109.02	Si
3.75	2X/2Y ø8/14.9	1.19	-539.82	SLU 18	211.55	320.29	1249.88	2.5	268.81	-1.31	-393.56	SLU 14	196.16	262.78	1209.84	2.5	200.29	Si
4.04	2X/2Y ø8/14.9	1.19	-536.96	SLU 18	211.15	320.29	1249.47	2.5	268.81	-1.31	-390.7	SLU 14	195.77	262.78	1209.43	2.5	200.29	Si
4.34	2X/2Y ø8/14.9	1.19	-534.1	SLU 18	210.75	320.29	1249.05	2.5	268.81	-1.31	-387.83	SLU 14	195.37	262.78	1209.02	2.5	200.29	Si
4.63	2X/2Y ø8/14.9	1.19	-531.23	SLU 18	210.36	320.29	1248.64	2.5	268.81	-1.31	-384.97	SLU 14	194.98	262.78	1208.62	2.5	200.29	Si
4.93	2X/2Y ø8/14.9	1.19	-528.37	SLU 18	209.96	320.29	1248.23	2.5	268.81	-1.31	-382.11	SLU 14	194.59	262.78	1208.21	2.5	200.29	Si
5.22	2X/2Y ø8/14.9	1.19	-525.5	SLU 18	209.56	320.29	1247.81	2.5	268.81	-1.31	-379.24	SLU 14	194.2	262.78	1207.8	2.5	200.29	Si
5.51	2X/2Y ø8/14.9	1.19	-522.64	SLU 18	209.16	320.29	1247.4	2.5	268.81	-1.31	-376.38	SLU 14	193.8	262.78	1207.4	2.5	200.29	Si
5.81	2X/2Y ø8/10	1.19	-519.77	SLU 18	208.76	477.76	1246.99	2.5	400.97	-1.31	-373.51	SLU 14	193.41	391.99	1206.99	2.5	298.76	Si
6.1	2X/2Y ø8/10	1.19	-516.96	SLU 18	208.37	477.76	1246.58	2.5	400.97	-1.31	-370.7	SLU 14	193.02	391.99	1206.59	2.5	298.76	Si

1.1.12.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95		28.37	-714.4	SLV 4	235.86	0	1848.79	1	8.32	10.68	-723.16	SLV 9	241.35	0	1822.04	1	22.6	Si
-5.9		28.37	-713.99	SLV 4	235.81	0	1848.7	1	8.31	10.68	-722.74	SLV 9	241.29	0	1821.96	1	22.59	Si
-5.6		28.37	-711.74	SLV 4	235.49	0	1848.23	1	8.3	10.68	-720.5	SLV 9	240.98	0	1821.5	1	22.57	Si
-5.29		28.37	-709.46	SLV 4	235.17	0	1847.76	1	8.29	10.68	-718.21	SLV 9	240.67	0	1821.03	1	22.54	Si
-4.99	2X/2Y ø8/10	28.37	-707.18	SLV 4	234.86	477.76	1273.99	2.5	16.84	10.68	-715.93	SLV 9	240.36	391.99	1255.56	2.5	36.7	Si
-4.68	2X/2Y ø8/10	28.37	-704.89	SLV 4	234.54	477.76	1273.66	2.5	16.84	10.68	-713.64	SLV 9	240.04	391.99	1255.23	2.5	36.7	Si
-4.38	2X/2Y ø8/10	28.37	-702.6	SLV 4	234.22	477.76	1273.33	2.5	16.84	10.68	-711.36	SLV 9	239.73	391.99	1254.91	2.5	36.7	Si
-4.07	2X/2Y ø8/10	28.37	-700.32	SLV 4	233.9	477.76	1273	2.5	16.84	10.68	-709.07	SLV 9	239.41	391.99	1254.58	2.5	36.7	Si
-3.77	2X/2Y ø8/10	28.37	-698.03	SLV 4	233.58	477.76	1272.67	2.5	16.84	10.68	-706.79	SLV 9	239.1	391.99	1254.26	2.5	36.7	Si
-3.46	2X/2Y ø8/10	28.37	-695.75	SLV 4	233.27	477.76	1272.34	2.5	16.84	10.68	-704.5	SLV 9	238.79	391.99	1253.94	2.5	36.7	Si
-3.16	2X/2Y ø8/14.9	28.37	-693.46	SLV 4	232.95	320.29	1272.01	2.5	11.29	10.68	-702.21	SLV 9	238.47	262.78	1253.61	2.5	24.61	Si
-2.85	2X/2Y ø8/14.9	28.37	-691.18	SLV 4	232.63	320.29	1271.68	2.5	11.29	10.68	-699.93	SLV 9	238.16	262.78	1253.29	2.5	24.61	Si
-2.55	2X/2Y ø8/14.9	28.37	-688.89	SLV 4	232.31	320.29	1271.35	2.5	11.29	10.68	-697.64	SLV 9	237.85	262.78	1252.96	2.5	24.61	Si
-2.24	2X/2Y ø8/14.9	28.37	-686.61	SLV 4	231.99	320.29	1271.02	2.5	11.29	10.68	-695.36	SLV 9	237.54	262.78	1252.64	2.5	24.61	Si
-1.94	2X/2Y ø8/14.9	28.37	-684.31	SLV 4	231.67	320.29	1270.69	2.5	11.29	10.68	-693.07	SLV 9	237.22	262.78	1252.31	2.5	24.61	Si
-1.63	2X/2Y ø8/14.9	28.37	-682.04	SLV 4	231.36	320.29	1270.36	2.5	11.29	10.68	-690.79	SLV 9	236.91	262.78	1251.99	2.5	24.61	Si
-1.33	2X/2Y ø8/14.9	28.37	-679.75	SLV 4	231.04	320.29	1270.03	2.5	11.29	10.68	-688.5	SLV 9	236.6	262.78	1251.67	2.5	24.61	Si
-1.14	2X/2Y ø8/14.9	28.37	-678.29	SLV 4	230.83	320.29	1269.82	2.5	11.29	10.68	-687.05	SLV 9	236.4	262.78	1251.46	2.5	24.61	Si
-1.03	2X/2Y ø8/14.9	28.37	-677.5	SLV 4	230.72	320.29	1269.71	2.5	11.29	10.68	-686.26	SLV 9	236.29	262.78	1251.35	2.5	24.61	Si
-0.98	2X/2Y ø8/14.9	-14.05	-425.07	SLV 1	195.57	320.29	1233.35	2.5	22.79	10.68	-437.88	SLV 9	202.23	262.78	1216.12	2.5	24.61	Si
-0.93	2X/2Y ø8/14.9	-14.05	-424.66	SLV 1	195.52	320.29	1233.29	2.5	22.79	10.68	-437.47	SLV 9	202.18	262.78	1216.06	2.5	24.61	Si
-0.63	2X/2Y ø8/14.9	-14.05	-422.52	SLV 1	195.22	320.29	1232.98	2.5	22.79	10.68	-435.32	SLV 9	201.88	262.78	1215.76	2.5	24.61	Si
-0.34	2X/2Y ø8/14.9	-14.05	-420.33	SLV 1	194.91	320.29	1232.66	2.5	22.79	10.68	-433.14	SLV 9	201.58	262.78	1215.45	2.5	24.61	Si
-0.05	2X/2Y ø8/14.9	-14.05	-418.15	SLV 1	194.61	320.29	1232.35	2.5	22.79	10.68	-430.95	SLV 9	201.29	262.78	1215.14	2.5	24.61	Si
0.24	2X/2Y ø8/14.9	-14.05	-415.97	SLV 1	194.31	320.29	1232.04	2.5	22.79	10.68	-428.77	SLV 9	200.99	262.78	1214.83	2.5	24.61	Si
0.53	2X/2Y ø8/14.9	-14.05	-413.78	SLV 1	194	320.29	1231.72	2.5	22.79	10.68	-426.59	SLV 9	200.69	262.78	1214.52	2.5	24.61	Si
0.82	2X/2Y ø8/14.9	-14.05	-411.6	SLV 1	193.7	320.29	1231.41	2.5	22.79	10.68	-424.41	SLV 9	200.39	262.78	1214.21	2.5	24.61	Si
1.11	2X/2Y ø8/14.9	-14.05	-409.42	SLV 1	193.39	320.29	1231.09	2.5	22.79	10.68	-422.22	SLV 9	200.09	262.78	1213.9	2.5	24.61	Si
1.4	2X/2Y ø8/14.9	-14.05	-407.23	SLV 1	193.09	320.29	1230.78	2.5	22.79	10.68	-420.04	SLV 9	199.79	262.78	1213.59	2.5	24.61	Si
1.69	2X/2Y ø8/14.9	-14.05	-405.05	SLV 1	192.79	320.29	1230.46	2.5	22.79	10.68	-417.86	SLV 9	199.49	262.78	1213.28	2.5	24.61	Si
1.99	2X/2Y ø8/14.9	-14.05	-402.87	SLV 1	192.48	320.29	1230.15	2.5	22.79	10.68	-415.67	SLV 9	199.19	262.78	1212.97	2.5	24.61	Si
2.28	2X/2Y ø8/14.9	-14.05	-400.68	SLV 1	192.18	320.29	1229.83	2.5	22.79	10.68	-413.49	SLV 9	198.89	262.78	1212.66	2.5	24.61	Si
2.57	2X/2Y ø8/14.9	-14.05	-398.5	SLV 1	191.87	320.29	1229.52	2.5	22.79	10.68	-411.31	SLV 9	198.59	262.78	1212.35	2.5	24.61	Si
2.86	2X/2Y ø8/14.9	-14.05	-396.32	SLV 1	191.57	320.29	1229.21	2.5	22.79	10.68	-409.12	SLV 9	198.29	262.78	1212.04	2.5	24.61	Si
3.15	2X/2Y ø8/14.9	-14.05	-394.17	SLV 1	191.27	320.29	1228.9	2.5	22.79	10.68	-406.98	SLV 9	198	262.78	1211.74	2.5	24.61	Si
3.75	2X/2Y ø8/14.9	16.18	-309.31	SLV 13	179.45	320.29	1216.67	2.5	19.8	-29.59	-301.64	SLV 9	183.56	262.78	1196.8	2.5	8.88	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
4.04	2X/2Y ø8/14.9	16.18	-307.1	SLV 13	179.15	320.29	1216.35	2.5	19.8	-29.59	-299.44	SLV 9	183.25	262.78	1196.49	2.5	8.88	Si
4.34	2X/2Y ø8/14.9	16.18	-304.9	SLV 13	178.84	320.29	1216.04	2.5	19.8	-29.59	-297.23	SLV 9	182.95	262.78	1196.17	2.5	8.88	Si
4.63	2X/2Y ø8/14.9	16.18	-302.7	SLV 13	178.53	320.29	1215.72	2.5	19.8	-29.59	-295.03	SLV 9	182.65	262.78	1195.86	2.5	8.88	Si
4.93	2X/2Y ø8/14.9	16.18	-300.49	SLV 13	178.23	320.29	1215.4	2.5	19.8	-29.59	-292.83	SLV 9	182.35	262.78	1195.55	2.5	8.88	Si
5.22	2X/2Y ø8/14.9	16.18	-298.29	SLV 13	177.92	320.29	1215.08	2.5	19.8	-29.59	-290.62	SLV 9	182.05	262.78	1195.24	2.5	8.88	Si
5.51	2X/2Y ø8/14.9	16.18	-296.09	SLV 13	177.61	320.29	1214.77	2.5	19.8	-29.59	-288.42	SLV 9	181.74	262.78	1194.92	2.5	8.88	Si
5.81	2X/2Y ø8/10	16.18	-293.89	SLV 13	177.31	477.76	1214.45	2.5	29.53	-29.59	-286.22	SLV 9	181.44	391.99	1194.61	2.5	13.25	Si
6.1	2X/2Y ø8/10	16.18	-291.72	SLV 13	177	477.76	1214.14	2.5	29.53	-29.59	-284.05	SLV 9	181.14	391.99	1194.3	2.5	13.25	Si

1.1.12.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-5.95	-5.95	-0.975	X	1.708	0.162	0.6	0.0113	0.00001	0.011591	0	235.863	1848.788	0	0	203.466	235.863	28.366	-714.404	SLV 4	Si
-5.95	-5.95	-0.975	Y	2.488	0.195	0.5	0.0113	0.00006	0.009892	0	241.346	1822.043	0	0	84.18	241.346	10.679	-723.156	SLV 9	Si

1.1.12.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95		18.1	-720.76	SLD 4	236.75	0	1850.12	1	13.08	5.13	-724.5	SLD 9	241.53	0	1822.32	1	47.06	Si
-5.9		18.1	-720.34	SLD 4	236.69	0	1850.03	1	13.08	5.13	-724.09	SLD 9	241.47	0	1822.23	1	47.05	Si
-5.6		18.1	-718.1	SLD 4	236.38	0	1849.56	1	13.06	5.13	-721.84	SLD 9	241.17	0	1821.77	1	46.99	Si
-5.29		18.1	-715.81	SLD 4	236.06	0	1849.08	1	13.04	5.13	-719.55	SLD 9	240.85	0	1821.3	1	46.93	Si
-4.99	2X/2Y ø8/10	18.1	-713.53	SLD 4	235.74	477.76	1274.9	2.5	26.39	5.13	-717.28	SLD 9	240.54	391.99	1255.75	2.5	76.37	Si
-4.68	2X/2Y ø8/10	18.1	-711.24	SLD 4	235.42	477.76	1274.57	2.5	26.39	5.13	-714.98	SLD 9	240.23	391.99	1255.42	2.5	76.37	Si
-4.38	2X/2Y ø8/10	18.1	-708.95	SLD 4	235.1	477.76	1274.24	2.5	26.39	5.13	-712.7	SLD 9	239.91	391.99	1255.1	2.5	76.37	Si
-4.07	2X/2Y ø8/10	18.1	-706.67	SLD 4	234.79	477.76	1273.91	2.5	26.39	5.13	-710.41	SLD 9	239.6	391.99	1254.77	2.5	76.37	Si
-3.77	2X/2Y ø8/10	18.1	-704.38	SLD 4	234.47	477.76	1273.58	2.5	26.39	5.13	-708.13	SLD 9	239.29	391.99	1254.45	2.5	76.37	Si
-3.46	2X/2Y ø8/10	18.1	-702.1	SLD 4	234.15	477.76	1273.25	2.5	26.39	5.13	-705.84	SLD 9	238.97	391.99	1254.13	2.5	76.37	Si
-3.16	2X/2Y ø8/14.9	18.1	-699.81	SLD 4	233.83	320.29	1272.92	2.5	17.69	5.13	-703.56	SLD 9	238.66	262.78	1253.8	2.5	51.2	Si
-2.85	2X/2Y ø8/14.9	18.1	-697.53	SLD 4	233.51	320.29	1272.6	2.5	17.69	5.13	-701.27	SLD 9	238.35	262.78	1253.48	2.5	51.2	Si
-2.55	2X/2Y ø8/14.9	18.1	-695.24	SLD 4	233.19	320.29	1272.27	2.5	17.69	5.13	-698.99	SLD 9	238.03	262.78	1253.15	2.5	51.2	Si
-2.24	2X/2Y ø8/14.9	18.1	-692.96	SLD 4	232.88	320.29	1271.94	2.5	17.69	5.13	-696.7	SLD 9	237.72	262.78	1252.83	2.5	51.2	Si
-1.94	2X/2Y ø8/14.9	18.1	-690.67	SLD 4	232.56	320.29	1271.61	2.5	17.69	5.13	-694.41	SLD 9	237.4	262.78	1252.5	2.5	51.2	Si
-1.63	2X/2Y ø8/14.9	18.1	-688.39	SLD 4	232.24	320.29	1271.28	2.5	17.69	5.13	-692.13	SLD 9	237.09	262.78	1252.18	2.5	51.2	Si
-1.33	2X/2Y ø8/14.9	18.1	-686.1	SLD 4	231.92	320.29	1270.95	2.5	17.69	5.13	-689.85	SLD 9	236.78	262.78	1251.86	2.5	51.2	Si
-1.14	2X/2Y ø8/14.9	18.1	-684.65	SLD 4	231.72	320.29	1270.74	2.5	17.69	5.13	-688.39	SLD 9	236.58	262.78	1251.65	2.5	51.2	Si
-1.03	2X/2Y ø8/14.9	18.1	-683.86	SLD 4	231.61	320.29	1270.63	2.5	17.69	5.13	-687.6	SLD 9	236.47	262.78	1251.54	2.5	51.2	Si
-0.98	2X/2Y ø8/14.9	-7.32	-433.74	SLD 1	196.78	320.29	1234.6	2.5	43.76	5.13	-439.22	SLD 9	202.42	262.78	1216.31	2.5	51.2	Si
-0.93	2X/2Y ø8/14.9	-7.32	-433.33	SLD 1	196.72	320.29	1234.54	2.5	43.76	5.13	-438.81	SLD 9	202.36	262.78	1216.25	2.5	51.2	Si
-0.63	2X/2Y ø8/14.9	-7.32	-431.18	SLD 1	196.42	320.29	1234.23	2.5	43.76	5.13	-436.66	SLD 9	202.07	262.78	1215.95	2.5	51.2	Si
-0.34	2X/2Y ø8/14.9	-7.32	-429	SLD 1	196.12	320.29	1233.91	2.5	43.76	5.13	-434.48	SLD 9	201.77	262.78	1215.64	2.5	51.2	Si
-0.05	2X/2Y ø8/14.9	-7.32	-426.82	SLD 1	195.82	320.29	1233.6	2.5	43.76	5.13	-432.3	SLD 9	201.47	262.78	1215.33	2.5	51.2	Si
0.24	2X/2Y ø8/14.9	-7.32	-424.64	SLD 1	195.51	320.29	1233.28	2.5	43.76	5.13	-430.11	SLD 9	201.17	262.78	1215.02	2.5	51.2	Si
0.53	2X/2Y ø8/14.9	-7.32	-422.45	SLD 1	195.21	320.29	1232.97	2.5	43.76	5.13	-427.93	SLD 9	200.87	262.78	1214.71	2.5	51.2	Si
0.82	2X/2Y ø8/14.9	-7.32	-420.27	SLD 1	194.9	320.29	1232.66	2.5	43.76	5.13	-425.75	SLD 9	200.57	262.78	1214.4	2.5	51.2	Si
1.11	2X/2Y ø8/14.9	-7.32	-418.09	SLD 1	194.6	320.29	1232.34	2.5	43.76	5.13	-423.57	SLD 9	200.27	262.78	1214.09	2.5	51.2	Si
1.4	2X/2Y ø8/14.9	-7.32	-415.9	SLD 1	194.3	320.29	1232.03	2.5	43.76	5.13	-421.38	SLD 9	199.97	262.78	1213.78	2.5	51.2	Si
1.69	2X/2Y ø8/14.9	-7.32	-413.72	SLD 1	193.99	320.29	1231.71	2.5	43.76	5.13	-419.2	SLD 9	199.67	262.78	1213.47	2.5	51.2	Si
1.99	2X/2Y ø8/14.9	-7.32	-411.54	SLD 1	193.69	320.29	1231.4	2.5	43.76	5.13	-417.02	SLD 9	199.37	262.78	1213.16	2.5	51.2	Si
2.28	2X/2Y ø8/14.9	-7.32	-409.35	SLD 1	193.38	320.29	1231.08	2.5	43.76	5.13	-414.83	SLD 9	199.08	262.78	1212.85	2.5	51.2	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
2.57	2X/2Y ø8/14.9	-7.32	-407.17	SLD 1	193.08	320.29	1230.77	2.5	43.76	5.13	-412.65	SLD 9	198.78	262.78	1212.54	2.5	51.2	Si
2.86	2X/2Y ø8/14.9	-7.32	-404.99	SLD 1	192.78	320.29	1230.45	2.5	43.76	5.13	-410.47	SLD 9	198.48	262.78	1212.23	2.5	51.2	Si
3.15	2X/2Y ø8/14.9	-7.32	-402.84	SLD 1	192.48	320.29	1230.15	2.5	43.76	5.13	-408.32	SLD 9	198.18	262.78	1211.93	2.5	51.2	Si
3.75	2X/2Y ø8/14.9	7.3	-305.75	SLD 13	178.96	320.29	1216.16	2.5	43.9	-12.84	-302.47	SLD 9	183.67	262.78	1196.92	2.5	20.47	Si
4.04	2X/2Y ø8/14.9	7.3	-303.55	SLD 13	178.65	320.29	1215.84	2.5	43.9	-12.84	-300.26	SLD 9	183.37	262.78	1196.6	2.5	20.47	Si
4.34	2X/2Y ø8/14.9	7.3	-301.35	SLD 13	178.34	320.29	1215.52	2.5	43.9	-12.84	-298.06	SLD 9	183.07	262.78	1196.29	2.5	20.47	Si
4.63	2X/2Y ø8/14.9	7.3	-299.14	SLD 13	178.04	320.29	1215.21	2.5	43.9	-12.84	-295.86	SLD 9	182.76	262.78	1195.98	2.5	20.47	Si
4.93	2X/2Y ø8/14.9	7.3	-296.94	SLD 13	177.73	320.29	1214.89	2.5	43.9	-12.84	-293.66	SLD 9	182.46	262.78	1195.67	2.5	20.47	Si
5.22	2X/2Y ø8/14.9	7.3	-294.74	SLD 13	177.42	320.29	1214.57	2.5	43.9	-12.84	-291.45	SLD 9	182.16	262.78	1195.35	2.5	20.47	Si
5.51	2X/2Y ø8/14.9	7.3	-292.53	SLD 13	177.12	320.29	1214.26	2.5	43.9	-12.84	-289.25	SLD 9	181.86	262.78	1195.04	2.5	20.47	Si
5.81	2X/2Y ø8/10	7.3	-290.33	SLD 13	176.81	477.76	1213.94	2.5	65.48	-12.84	-287.05	SLD 9	181.56	391.99	1194.73	2.5	30.54	Si
6.1	2X/2Y ø8/10	7.3	-288.16	SLD 13	176.51	477.76	1213.63	2.5	65.48	-12.84	-284.88	SLD 9	181.26	391.99	1194.42	2.5	30.54	Si

1.1.12.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-5.9	11.62	1961	1.347	0.368	1.298	SLV 4	Si
-5.6	11.605	1961	1.347	0.368	1.298	SLV 4	Si
-5.29	11.576	1961	1.347	0.368	1.298	SLV 4	Si
-4.99	26.006	1961	1.347	0.368	1.298	SLV 4	Si
-4.68	26.006	1961	1.347	0.368	1.298	SLV 4	Si
-4.38	26.006	1961	1.347	0.368	1.298	SLV 4	Si
-4.07	26.006	1961	1.347	0.368	1.298	SLV 4	Si
-3.77	26.006	1961	1.347	0.368	1.298	SLV 4	Si
-3.46	26.006	1961	1.347	0.368	1.298	SLV 4	Si
-3.16	17.227	1961	1.347	0.368	1.298	SLV 4	Si
-2.85	17.227	1961	1.347	0.368	1.298	SLV 4	Si
-2.55	17.227	1961	1.347	0.368	1.298	SLV 4	Si
-2.24	17.227	1961	1.347	0.368	1.298	SLV 4	Si
-1.94	17.227	1961	1.347	0.368	1.298	SLV 4	Si
-1.63	17.227	1961	1.347	0.368	1.298	SLV 4	Si
-1.33	17.227	1961	1.347	0.368	1.298	SLV 4	Si
-1.14	17.227	1961	1.347	0.368	1.298	SLV 4	Si
-1.03	17.227	1961	1.347	0.368	1.298	SLV 4	Si
-0.98	26.914	1961	1.347	0.368	1.298	SLV 9	Si
-0.93	26.914	1961	1.347	0.368	1.298	SLV 9	Si
-0.63	26.914	1961	1.347	0.368	1.298	SLV 9	Si
-0.34	26.914	1961	1.347	0.368	1.298	SLV 9	Si
-0.05	26.914	1961	1.347	0.368	1.298	SLV 9	Si
0.24	26.914	1961	1.347	0.368	1.298	SLV 9	Si
0.53	26.914	1961	1.347	0.368	1.298	SLV 9	Si
0.82	26.914	1961	1.347	0.368	1.298	SLV 9	Si
1.11	26.914	1961	1.347	0.368	1.298	SLV 9	Si
1.4	26.914	1961	1.347	0.368	1.298	SLV 9	Si
1.69	26.914	1961	1.347	0.368	1.298	SLV 9	Si
1.99	26.914	1961	1.347	0.368	1.298	SLV 9	Si
2.28	26.914	1961	1.347	0.368	1.298	SLV 9	Si
2.57	26.914	1961	1.347	0.368	1.298	SLV 9	Si
2.86	26.914	1961	1.347	0.368	1.298	SLV 9	Si
3.15	26.914	1961	1.347	0.368	1.298	SLV 9	Si
3.75	8.954	1961	1.347	0.368	1.298	SLV 9	Si
4.04	8.954	1961	1.347	0.368	1.298	SLV 9	Si
4.34	8.954	1961	1.347	0.368	1.298	SLV 9	Si
4.63	8.954	1961	1.347	0.368	1.298	SLV 9	Si
4.93	8.954	1961	1.347	0.368	1.298	SLV 9	Si
5.22	8.954	1961	1.347	0.368	1.298	SLV 9	Si
5.51	8.954	1961	1.347	0.368	1.298	SLV 9	Si
5.81	13.363	1961	1.347	0.368	1.298	SLV 9	Si
6.1	13.363	1961	1.347	0.368	1.298	SLV 9	Si

1.1.12.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-5.95	27.096	1961	3.374	0.368	3.05	SLD 4	Si
-5.9	27.065	1961	3.374	0.368	3.05	SLD 4	Si
-5.6	27.035	1961	3.374	0.368	3.05	SLD 4	Si
-5.29	26.975	1961	3.374	0.368	3.05	SLD 4	Si
-4.99	60.555	1961	3.374	0.368	3.05	SLD 4	Si
-4.68	60.555	1961	3.374	0.368	3.05	SLD 4	Si
-4.38	60.555	1961	3.374	0.368	3.05	SLD 4	Si
-4.07	60.555	1961	3.374	0.368	3.05	SLD 4	Si
-3.77	60.555	1961	3.374	0.368	3.05	SLD 4	Si
-3.46	60.555	1961	3.374	0.368	3.05	SLD 4	Si
-3.16	40.129	1961	3.374	0.368	3.05	SLD 4	Si
-2.85	40.129	1961	3.374	0.368	3.05	SLD 4	Si
-2.55	40.129	1961	3.374	0.368	3.05	SLD 4	Si
-2.24	40.129	1961	3.374	0.368	3.05	SLD 4	Si
-1.94	40.129	1961	3.374	0.368	3.05	SLD 4	Si
-1.63	40.129	1961	3.374	0.368	3.05	SLD 4	Si
-1.33	40.129	1961	3.374	0.368	3.05	SLD 4	Si
-1.14	40.129	1961	3.374	0.368	3.05	SLD 4	Si
-1.03	40.129	1961	3.374	0.368	3.05	SLD 4	Si
-0.98	62.646	1961	3.374	0.368	3.05	SLD 9	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.93	62.646	1961	3.374	0.368	3.05	SLD 9	Si
-0.63	62.646	1961	3.374	0.368	3.05	SLD 9	Si
-0.34	62.646	1961	3.374	0.368	3.05	SLD 9	Si
-0.05	62.646	1961	3.374	0.368	3.05	SLD 9	Si
0.24	62.646	1961	3.374	0.368	3.05	SLD 9	Si
0.53	62.646	1961	3.374	0.368	3.05	SLD 9	Si
0.82	62.646	1961	3.374	0.368	3.05	SLD 9	Si
1.11	62.646	1961	3.374	0.368	3.05	SLD 9	Si
1.4	62.646	1961	3.374	0.368	3.05	SLD 9	Si
1.69	62.646	1961	3.374	0.368	3.05	SLD 9	Si
1.99	62.646	1961	3.374	0.368	3.05	SLD 9	Si
2.28	62.646	1961	3.374	0.368	3.05	SLD 9	Si
2.57	62.646	1961	3.374	0.368	3.05	SLD 9	Si
2.86	62.646	1961	3.374	0.368	3.05	SLD 9	Si
3.15	62.646	1961	3.374	0.368	3.05	SLD 9	Si
3.75	20.92	1961	3.374	0.368	3.05	SLD 9	Si
4.04	20.92	1961	3.374	0.368	3.05	SLD 9	Si
4.34	20.92	1961	3.374	0.368	3.05	SLD 9	Si
4.63	20.92	1961	3.374	0.368	3.05	SLD 9	Si
4.93	20.92	1961	3.374	0.368	3.05	SLD 9	Si
5.22	20.92	1961	3.374	0.368	3.05	SLD 9	Si
5.51	20.92	1961	3.374	0.368	3.05	SLD 9	Si
5.81	31.213	1961	3.374	0.368	3.05	SLD 8	Si
6.1	31.213	1961	3.374	0.368	3.05	SLD 8	Si

1.1.12.4 Verifiche nodi trave colonna

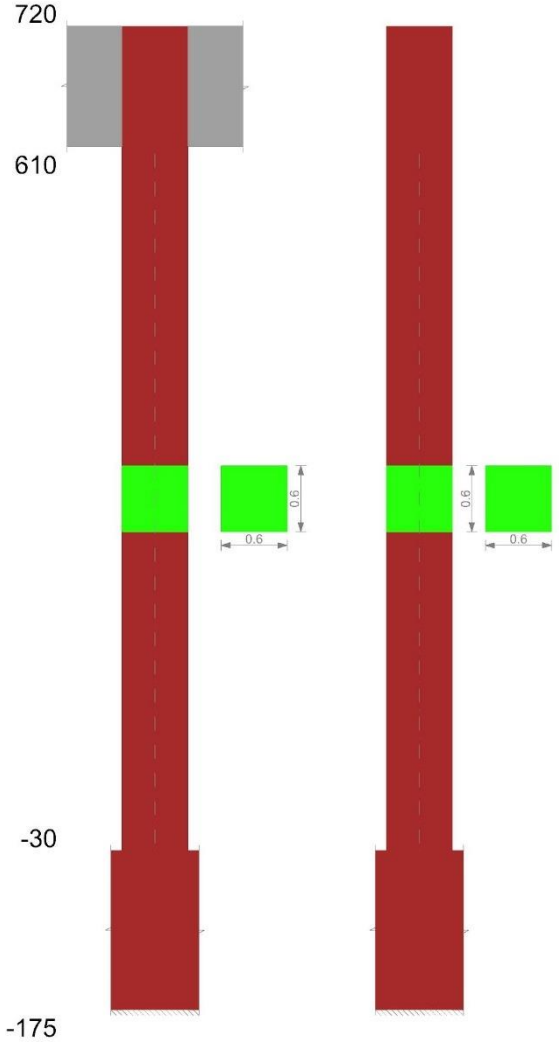
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.12.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.13 P19

Geometria



1.1.13.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.13.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.1	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.13.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2131	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2131	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2131	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2131	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.3	0	-0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0	0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0	-0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.4	0	0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.3	-0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	-0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.4	0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2

1.1.13.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.13.3 Verifiche delle sezioni

1.1.13.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4	-0.1837	0	-954.37	-2.0272	0	SLU 18	11.036	Si
0	0.007175	4	0	1,2,3,4	-0.1762	0	-950.81	-1.9512	0	SLU 18	11.077	Si
0.31	0.007175	3.8	0	1,2,4	-0.1687	0	-947.3	-1.8755	0	SLU 18	11.118	Si
0.61	0.007175	3.8	0	1,2,4	-0.1611	0	-943.73	-1.7982	0	SLU 18	11.16	Si
0.92	0.007175	3.8	0	1,2,4	-0.1536	0	-940.17	-1.7203	0	SLU 18	11.203	Si
1.22	0.007175	2	0	2,4	-0.146	0	-936.6	-1.6418	0	SLU 18	11.245	Si
1.53	0.007175	2	0	2,4	-0.1384	0	-933.03	-1.5626	0	SLU 18	11.288	Si
1.83	0.007175	2	0	2,4	-0.1309	0	-929.47	-1.4829	0	SLU 18	11.331	Si
2.14	0.007175	2	0	2,4	-0.1233	0	-925.9	-1.4026	0	SLU 18	11.375	Si
2.44	0.007175	2	0	2,4	-0.1157	0	-922.34	-1.3216	0	SLU 18	11.419	Si
2.75	0.007175	2	0	2,4	-0.1082	0	-918.77	-1.24	0	SLU 18	11.463	Si
3.05	0.007175	2	0	2,4	-0.1006	0	-915.21	-1.1578	0	SLU 18	11.508	Si
3.36	0.007175	2	0	2,4	-0.093	0	-911.64	-1.0749	0	SLU 18	11.553	Si
3.66	0.007175	2	0	2,4	-0.0855	0	-908.07	-0.9914	0	SLU 18	11.598	Si
3.97	0.007175	2	0	2,4	-0.0779	0	-904.51	-0.9073	0	SLU 18	11.644	Si
4.27	0.007175	2	0	2,4	-0.0704	0	-900.94	-0.8224	0	SLU 18	11.69	Si
4.58	0.007175	2	0	2,4	-0.0628	0	-897.38	-0.7369	0	SLU 18	11.737	Si
4.88	0.007175	2	0	2,4	-0.0552	0	-893.81	-0.6507	0	SLU 18	11.784	Si
5.19	0.007175	2	0	2,4	-0.0477	0	-890.25	-0.5638	0	SLU 18	11.831	Si
5.49	0.007175	2	0	2,4	-0.0401	0	-886.68	-0.4762	0	SLU 18	11.878	Si
5.8	0.007175	2	0	2,4	-0.0325	0	-883.11	-0.3879	0	SLU 18	11.926	Si
6.1	0.005988	2	0	2,4	-0.0251	0	-879.61	-0.2876	0	SLU 18	11.462	Si

1.1.13.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007175	4	0	1,2,3,4	-224.0224	814.2059	-496.34	-253.8514	922.6187	SLV 4	1.133				Si
0	0.007175	4	0	1,2,3,4	-214.2052	778.5812	-493.61	-255.4245	928.4032	SLV 4	1.192				Si
0.31	0.007175	3.8	0	1,2,4	-204.4918	743.3338	-490.9	-257.1374	934.7019	SLV 4	1.257				Si
0.61	0.007175	3.8	0	1,2,4	-194.6458	707.6047	-488.16	-259.0321	941.6711	SLV 4	1.331				Si
0.92	0.007175	3.8	0	1,2,4	-184.7997	671.8755	-485.42	-261.1616	949.5041	SLV 4	1.413				Si
1.22	0.007175	2	0	2,4	-174.9537	636.1463	-482.67	-263.5726	958.3723	SLV 4	1.507				Si
1.53	0.007175	2	0	2,4	-165.1076	600.4172	-479.93	-266.3247	968.4954	SLV 4	1.613				Si
1.83	0.007175	2	0	2,4	-155.2615	564.688	-477.19	-269.4075	979.8383	SLV 4	1.735				Si
2.14	0.007175	2	0	2,4	-145.4155	528.9589	-474.44	-272.9618	992.9176	SLV 4	1.877				Si
2.44	0.007175	2	0	2,4	-135.5694	493.2297	-471.7	-277.1498	1008.3285	SLV 4	2.044				Si
2.75	0.007175	2	0	2,4	-125.7234	457.5006	-468.96	-281.9838	1026.1241	SLV 4	2.243				Si
3.05	0.007175	2	0	2,4	-115.8773	421.7715	-466.22	-287.8052	1047.5565	SLV 4	2.484				Si
3.36	0.007175	2	0	2,4	-106.0313	386.0423	-463.47	-294.6254	1072.6826	SLV 4	2.779				Si
3.66	0.007175	2	0	2,4	-96.1852	350.3131	-460.73	-303.2593	1104.4914	SLV 4	3.153				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.97	0.007175	2	0	2,4	-86.3392	314.584	-457.99	-313.8296	1143.4647	SLV 4	3.635				Si
4.27	0.007175	2	0	2,4	-76.4931	278.8549	-455.24	-326.4583	1190.1002	SLV 4	4.268				Si
4.58	0.007175	2	0	2,4	-66.6471	243.1257	-452.5	-343.5209	1253.1495	SLV 4	5.154				Si
4.88	0.007175	2	0	2,4	-56.8011	207.3966	-449.76	-366.0803	1336.6615	SLV 4	6.445				Si
5.19	0.007175	2	0	2,4	-46.955	171.6674	-447.02	-389.2859	1423.2271	SLV 4	8.291				Si
5.49	0.007175	2	0	2,4	-37.1091	135.9383	-444.27	-409.4913	1500.0518	SLV 4	11.035				Si
5.8	0.007175	2	0	2,4	-27.2632	100.2091	-441.53	-419.3841	1541.4978	SLV 4	15.383				Si
6.1	0.005988	2	0	2,4	-17.579	65.0661	-438.83	-361.8089	1339.1855	SLV 4	20.582				Si

1.1.13.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4	-89.2129	323.0686	-496.34	-321.2901	1163.4952	SLD 4	3.601	Si
0	0.007175	4	0	1,2,3,4	-85.3035	308.9331	-493.61	-325.7599	1179.7645	SLD 4	3.819	Si
0.31	0.007175	3.8	0	1,2,4	-81.4354	294.9473	-490.9	-330.8016	1198.1149	SLD 4	4.062	Si
0.61	0.007175	3.8	0	1,2,4	-77.5146	280.7703	-488.16	-336.4202	1218.5684	SLD 4	4.34	Si
0.92	0.007175	3.8	0	1,2,4	-73.5937	266.5933	-485.42	-342.6248	1241.1594	SLD 4	4.656	Si
1.22	0.007175	2	0	2,4	-69.6728	252.4164	-482.67	-349.4133	1265.8833	SLD 4	5.015	Si
1.53	0.007175	2	0	2,4	-65.7519	238.2394	-479.93	-356.8642	1293.0287	SLD 4	5.427	Si
1.83	0.007175	2	0	2,4	-61.831	224.0625	-477.19	-365.4078	1324.1598	SLD 4	5.91	Si
2.14	0.007175	2	0	2,4	-57.9102	209.8855	-474.44	-374.0088	1355.5313	SLD 4	6.458	Si
2.44	0.007175	2	0	2,4	-53.9893	195.7085	-471.7	-381.9223	1384.4503	SLD 4	7.074	Si
2.75	0.007175	2	0	2,4	-50.0684	181.5316	-468.96	-391.1012	1418.0045	SLD 4	7.811	Si
3.05	0.007175	2	0	2,4	-46.1475	167.3546	-466.22	-398.6639	1445.7602	SLD 4	8.639	Si
3.36	0.007175	2	0	2,4	-42.2266	153.1776	-463.47	-405.8113	1472.0855	SLD 4	9.61	Si
3.66	0.007175	2	0	2,4	-38.3058	139.0007	-460.73	-413.5089	1500.5062	SLD 4	10.795	Si
3.97	0.007175	2	0	2,4	-34.3849	124.8237	-457.99	-419.8329	1524.074	SLD 4	12.21	Si
4.27	0.007175	2	0	2,4	-30.464	110.6468	-455.24	-423.028	1536.4585	SLD 4	13.886	Si
4.58	0.007175	2	0	2,4	-26.5431	96.4698	-452.5	-420.1952	1527.1799	SLD 4	15.831	Si
4.88	0.007175	2	0	2,4	-22.6223	82.2928	-449.76	-407.6491	1482.9014	SLD 4	18.02	Si
5.19	0.007175	2	0	2,4	-18.7014	68.1159	-447.02	-386.8887	1409.1591	SLD 4	20.688	Si
5.49	0.007175	2	0	2,4	-14.7806	53.9389	-444.27	-353.2151	1288.9925	SLD 4	23.897	Si
5.8	0.007175	2	0	2,4	-10.8598	39.7619	-441.53	-299.9252	1098.1476	SLD 4	27.618	Si
6.1	0.005988	2	0	2,4	-7.0033	25.8176	-438.83	-214.9229	792.3057	SLD 4	30.689	Si

1.1.13.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	1.115	1332	1.149	0.32	1.13	SLV 3	Si
0	1.166	1534	1.218	0.337	1.188	SLV 3	Si
0.31	1.221	1775	1.293	0.355	1.252	SLV 3	Si
0.61	1.281	1961	1.347	0.368	1.298	SLV 3	Si
0.92	1.348	1961	1.347	0.368	1.298	SLV 3	Si
1.22	1.422	1961	1.347	0.368	1.298	SLV 3	Si
1.53	1.506	1961	1.347	0.368	1.298	SLV 3	Si
1.83	1.602	1961	1.347	0.368	1.298	SLV 3	Si
2.14	1.707	1961	1.347	0.368	1.298	SLV 3	Si
2.44	1.83	1961	1.347	0.368	1.298	SLV 3	Si
2.75	1.973	1961	1.347	0.368	1.298	SLV 3	Si
3.05	2.137	1961	1.347	0.368	1.298	SLV 3	Si
3.36	2.333	1961	1.347	0.368	1.298	SLV 3	Si
3.66	2.57	1961	1.347	0.368	1.298	SLV 3	Si
3.97	2.857	1961	1.347	0.368	1.298	SLV 3	Si
4.27	3.227	1961	1.347	0.368	1.298	SLV 1	Si
4.58	3.695	1961	1.347	0.368	1.298	SLV 3	Si
4.88	4.329	1961	1.347	0.368	1.298	SLV 3	Si
5.19	5.225	1961	1.347	0.368	1.298	SLV 3	Si
5.49	6.592	1961	1.347	0.368	1.298	SLV 3	Si
5.8	8.939	1961	1.347	0.368	1.298	SLV 3	Si
6.1	11.869	1961	1.347	0.368	1.298	SLV 3	Si

1.1.13.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	2.811	1694	3.177	0.349	2.894	SLD 3	Si
0	2.939	1955	3.37	0.368	3.046	SLD 3	Si
0.31	3.074	1961	3.374	0.368	3.05	SLD 3	Si
0.61	3.227	1961	3.374	0.368	3.05	SLD 3	Si
0.92	3.396	1961	3.374	0.368	3.05	SLD 3	Si
1.22	3.584	1961	3.374	0.368	3.05	SLD 3	Si
1.53	3.795	1961	3.374	0.368	3.05	SLD 3	Si
1.83	4.035	1961	3.374	0.368	3.05	SLD 3	Si
2.14	4.302	1961	3.374	0.368	3.05	SLD 3	Si
2.44	4.609	1961	3.374	0.368	3.05	SLD 3	Si
2.75	4.965	1961	3.374	0.368	3.05	SLD 3	Si
3.05	5.389	1961	3.374	0.368	3.05	SLD 3	Si
3.36	5.881	1961	3.374	0.368	3.05	SLD 3	Si
3.66	6.476	1961	3.374	0.368	3.05	SLD 3	Si
3.97	7.207	1961	3.374	0.368	3.05	SLD 3	Si
4.27	8.119	1961	3.374	0.368	3.05	SLD 3	Si
4.58	9.32	1961	3.374	0.368	3.05	SLD 1	Si
4.88	10.902	1961	3.374	0.368	3.05	SLD 3	Si
5.19	13.173	1961	3.374	0.368	3.05	SLD 3	Si
5.49	16.621	1961	3.374	0.368	3.05	SLD 3	Si
5.8	22.555	1961	3.374	0.368	3.05	SLD 1	Si
6.1	29.941	1961	3.374	0.368	3.05	SLD 3	Si

1.1.13.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	0	-490.13	SLU 1	232.58	479.47	1482.45	2.5	1000	0.01	-490.13	SLU 1	232.58	479.47	1482.45	2.5	1000	Si
0	2X/2Y ø8/10	0	-487.39	SLU 1	232.19	479.47	1482.05	2.5	1000	0.01	-487.39	SLU 1	232.19	479.47	1482.05	2.5	1000	Si
0.31	2X/2Y ø8/10	0	-484.69	SLU 1	231.82	479.47	1481.66	2.5	1000	0.01	-484.69	SLU 1	231.82	479.47	1481.66	2.5	1000	Si
0.61	2X/2Y ø8/10	0	-481.94	SLU 1	231.43	479.47	1481.26	2.5	1000	0.01	-481.94	SLU 1	231.43	479.47	1481.26	2.5	1000	Si
0.92	2X/2Y ø8/10	0	-479.2	SLU 1	231.05	479.47	1480.87	2.5	1000	0.01	-479.2	SLU 1	231.05	479.47	1480.87	2.5	1000	Si
1.22	2X/2Y ø8/10	0	-476.46	SLU 1	230.67	479.47	1480.47	2.5	1000	0.01	-476.46	SLU 1	230.67	479.47	1480.47	2.5	1000	Si
1.53	2X/2Y ø8/10	0	-473.72	SLU 1	230.28	479.47	1480.07	2.5	1000	0.01	-473.72	SLU 1	230.28	479.47	1480.07	2.5	1000	Si
1.83	2X/2Y ø8/14.8	0	-470.97	SLU 1	229.9	323.65	1479.68	2.5	1000	0.01	-470.97	SLU 1	229.9	323.65	1479.68	2.5	1000	Si
2.14	2X/2Y ø8/14.8	0	-468.23	SLU 1	229.52	323.65	1479.28	2.5	1000	0.01	-468.23	SLU 1	229.52	323.65	1479.28	2.5	1000	Si
2.44	2X/2Y ø8/14.8	0	-465.49	SLU 1	229.13	323.65	1478.88	2.5	1000	0.01	-465.49	SLU 1	229.13	323.65	1478.88	2.5	1000	Si
2.75	2X/2Y ø8/14.8	0	-462.74	SLU 1	228.75	323.65	1478.49	2.5	1000	0.01	-462.74	SLU 1	228.75	323.65	1478.49	2.5	1000	Si
3.05	2X/2Y ø8/14.8	0	-460	SLU 1	228.37	323.65	1478.09	2.5	1000	0.01	-460	SLU 1	228.37	323.65	1478.09	2.5	1000	Si
3.36	2X/2Y ø8/14.8	0	-457.26	SLU 1	227.98	323.65	1477.69	2.5	1000	0.01	-457.26	SLU 1	227.98	323.65	1477.69	2.5	1000	Si
3.66	2X/2Y ø8/14.8	0	-454.52	SLU 1	227.6	323.65	1477.3	2.5	1000	0.01	-454.52	SLU 1	227.6	323.65	1477.3	2.5	1000	Si
3.97	2X/2Y ø8/14.8	0	-451.77	SLU 1	227.22	323.65	1476.9	2.5	1000	0.01	-451.77	SLU 1	227.22	323.65	1476.9	2.5	1000	Si
4.27	2X/2Y ø8/14.8	0	-449.03	SLU 1	226.83	323.65	1476.5	2.5	1000	0.01	-449.03	SLU 1	226.83	323.65	1476.5	2.5	1000	Si
4.58	2X/2Y ø8/14.8	0	-446.29	SLU 1	226.45	323.65	1476.11	2.5	1000	0.01	-446.29	SLU 1	226.45	323.65	1476.11	2.5	1000	Si
4.88	2X/2Y ø8/14.8	0	-443.54	SLU 1	226.07	323.65	1475.71	2.5	1000	0.01	-443.54	SLU 1	226.07	323.65	1475.71	2.5	1000	Si
5.19	2X/2Y ø8/14.8	0	-440.8	SLU 1	225.68	323.65	1475.31	2.5	1000	0.01	-440.8	SLU 1	225.68	323.65	1475.31	2.5	1000	Si
5.49	2X/2Y ø8/14.8	0	-438.06	SLU 1	225.3	323.65	1474.92	2.5	1000	0.01	-438.06	SLU 1	225.3	323.65	1474.92	2.5	1000	Si
5.8	2X/2Y ø8/10	0	-435.32	SLU 1	224.92	479.47	1474.52	2.5	1000	0.01	-435.32	SLU 1	224.92	479.47	1474.52	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-432.62	SLU 1	224.54	479.47	1474.13	2.5	1000	0.01	-432.62	SLU 1	224.54	479.47	1474.13	2.5	1000	Si

1.1.13.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	117.24	-496.34	SLV 14	233.44	479.47	1483.34	2.5	4.09	104.53	-496.34	SLV 8	233.44	479.47	1483.34	2.5	4.59	Si
0	2X/2Y ø8/10	117.24	-493.61	SLV 14	233.06	479.47	1482.95	2.5	4.09	104.53	-493.61	SLV 8	233.06	479.47	1482.95	2.5	4.59	Si
0.31	2X/2Y ø8/10	117.24	-490.9	SLV 14	232.68	479.47	1482.56	2.5	4.09	104.53	-490.9	SLV 8	232.68	479.47	1482.56	2.5	4.59	Si
0.61	2X/2Y ø8/10	117.24	-488.16	SLV 14	232.3	479.47	1482.16	2.5	4.09	104.53	-488.16	SLV 8	232.3	479.47	1482.16	2.5	4.59	Si
0.92	2X/2Y ø8/10	117.24	-485.41	SLV 14	231.92	479.47	1481.76	2.5	4.09	104.53	-485.42	SLV 8	231.92	479.47	1481.76	2.5	4.59	Si
1.22	2X/2Y ø8/10	117.24	-482.67	SLV 14	231.53	479.47	1481.37	2.5	4.09	104.53	-482.67	SLV 8	231.53	479.47	1481.37	2.5	4.59	Si
1.53	2X/2Y ø8/10	117.24	-479.93	SLV 14	231.15	479.47	1480.97	2.5	4.09	104.53	-479.93	SLV 8	231.15	479.47	1480.97	2.5	4.59	Si
1.83	2X/2Y ø8/14.8	117.24	-477.19	SLV 14	230.77	323.65	1480.57	2.5	2.76	104.53	-477.19	SLV 8	230.77	323.65	1480.58	2.5	3.1	Si
2.14	2X/2Y ø8/14.8	117.24	-474.44	SLV 14	230.38	323.65	1480.18	2.5	2.76	104.53	-474.45	SLV 8	230.38	323.65	1480.18	2.5	3.1	Si
2.44	2X/2Y ø8/14.8	117.24	-471.7	SLV 14	230	323.65	1479.78	2.5	2.76	104.53	-471.7	SLV 8	230	323.65	1479.78	2.5	3.1	Si
2.75	2X/2Y ø8/14.8	117.24	-468.96	SLV 14	229.62	323.65	1479.39	2.5	2.76	104.53	-468.96	SLV 8	229.62	323.65	1479.39	2.5	3.1	Si
3.05	2X/2Y ø8/14.8	117.24	-466.21	SLV 14	229.23	323.65	1478.99	2.5	2.76	104.53	-466.22	SLV 8	229.23	323.65	1478.99	2.5	3.1	Si
3.36	2X/2Y ø8/14.8	117.24	-463.47	SLV 14	228.85	323.65	1478.59	2.5	2.76	104.53	-463.47	SLV 8	228.85	323.65	1478.59	2.5	3.1	Si
3.66	2X/2Y ø8/14.8	117.24	-460.73	SLV 14	228.47	323.65	1478.2	2.5	2.76	104.53	-460.73	SLV 8	228.47	323.65	1478.2	2.5	3.1	Si
3.97	2X/2Y ø8/14.8	117.24	-457.99	SLV 14	228.08	323.65	1477.8	2.5	2.76	104.53	-457.99	SLV 8	228.08	323.65	1477.8	2.5	3.1	Si
4.27	2X/2Y ø8/14.8	117.24	-455.24	SLV 14	227.7	323.65	1477.4	2.5	2.76	104.53	-455.25	SLV 8	227.7	323.65	1477.4	2.5	3.1	Si
4.58	2X/2Y ø8/14.8	117.24	-452.5	SLV 14	227.32	323.65	1477.01	2.5	2.76	104.53	-452.5	SLV 8	227.32	323.65	1477.01	2.5	3.1	Si
4.88	2X/2Y ø8/14.8	117.24	-449.76	SLV 14	226.93	323.65	1476.61	2.5	2.76	104.53	-449.76	SLV 8	226.93	323.65	1476.61	2.5	3.1	Si
5.19	2X/2Y ø8/14.8	117.24	-447.01	SLV 14	226.55	323.65	1476.21	2.5	2.76	104.53	-447.02	SLV 8	226.55	323.65	1476.21	2.5	3.1	Si
5.49	2X/2Y ø8/14.8	117.24	-444.27	SLV 14	226.17	323.65	1475.82	2.5	2.76	104.53	-444.27	SLV 8	226.17	323.65	1475.82	2.5	3.1	Si
5.8	2X/2Y ø8/10	117.24	-441.53	SLV 14	225.78	479.47	1475.42	2.5	4.09	104.53	-441.53	SLV 8	225.78	479.47	1475.42	2.5	4.59	Si
6.1	2X/2Y ø8/10	117.24	-438.83	SLV 14	225.41	479.47	1475.03	2.5	4.09	104.53	-438.83	SLV 8	225.41	479.47	1475.03	2.5	4.59	Si

1.1.13.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula

[C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-1.025	6.65	X	3.813	0.176	0.6	0.0199	0.005838	0.023198	0	233.445	2150.849	479.475	191.79	287.656	479.475	117.236	-496.34	SLV 14	Si
-0.3	-1.025	6.65	Y	7.614	0.176	0.6	0.0199	0.00758	0.023198	0	233.445	2150.85	479.475	191.79	275.671	479.475	104.526	-496.343	SLV 8	Si

1.1.13.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	46.52	-496.34	SLD 14	233.44	479.47	1483.34	2.5	10.31	41.51	-496.34	SLD 8	233.44	479.47	1483.34	2.5	11.55	Si
0	2X/2Y ø8/10	46.52	-493.61	SLD 14	233.06	479.47	1482.95	2.5	10.31	41.51	-493.61	SLD 8	233.06	479.47	1482.95	2.5	11.55	Si
0.31	2X/2Y ø8/10	46.52	-490.9	SLD 14	232.68	479.47	1482.56	2.5	10.31	41.51	-490.9	SLD 8	232.68	479.47	1482.56	2.5	11.55	Si
0.61	2X/2Y ø8/10	46.52	-488.16	SLD 14	232.3	479.47	1482.16	2.5	10.31	41.51	-488.16	SLD 8	232.3	479.47	1482.16	2.5	11.55	Si
0.92	2X/2Y ø8/10	46.52	-485.41	SLD 14	231.92	479.47	1481.76	2.5	10.31	41.51	-485.42	SLD 8	231.92	479.47	1481.76	2.5	11.55	Si
1.22	2X/2Y ø8/10	46.52	-482.67	SLD 14	231.53	479.47	1481.37	2.5	10.31	41.51	-482.67	SLD 8	231.53	479.47	1481.37	2.5	11.55	Si
1.53	2X/2Y ø8/10	46.52	-479.93	SLD 14	231.15	479.47	1480.97	2.5	10.31	41.51	-479.93	SLD 8	231.15	479.47	1480.97	2.5	11.55	Si
1.83	2X/2Y ø8/14.8	46.52	-477.19	SLD 14	230.77	323.65	1480.57	2.5	6.96	41.51	-477.19	SLD 8	230.77	323.65	1480.58	2.5	7.8	Si
2.14	2X/2Y ø8/14.8	46.52	-474.44	SLD 14	230.38	323.65	1480.18	2.5	6.96	41.51	-474.44	SLD 8	230.38	323.65	1480.18	2.5	7.8	Si
2.44	2X/2Y ø8/14.8	46.52	-471.7	SLD 14	230	323.65	1479.78	2.5	6.96	41.51	-471.7	SLD 8	230	323.65	1479.78	2.5	7.8	Si
2.75	2X/2Y ø8/14.8	46.52	-468.96	SLD 14	229.62	323.65	1479.39	2.5	6.96	41.51	-468.96	SLD 8	229.62	323.65	1479.39	2.5	7.8	Si
3.05	2X/2Y ø8/14.8	46.52	-466.21	SLD 14	229.23	323.65	1478.99	2.5	6.96	41.51	-466.22	SLD 8	229.23	323.65	1478.99	2.5	7.8	Si
3.36	2X/2Y ø8/14.8	46.52	-463.47	SLD 14	228.85	323.65	1478.59	2.5	6.96	41.51	-463.47	SLD 8	228.85	323.65	1478.59	2.5	7.8	Si
3.66	2X/2Y ø8/14.8	46.52	-460.73	SLD 14	228.47	323.65	1478.2	2.5	6.96	41.51	-460.73	SLD 8	228.47	323.65	1478.2	2.5	7.8	Si
3.97	2X/2Y ø8/14.8	46.52	-457.99	SLD 14	228.08	323.65	1477.8	2.5	6.96	41.51	-457.99	SLD 8	228.08	323.65	1477.8	2.5	7.8	Si
4.27	2X/2Y ø8/14.8	46.52	-455.24	SLD 14	227.7	323.65	1477.4	2.5	6.96	41.51	-455.24	SLD 8	227.7	323.65	1477.4	2.5	7.8	Si
4.58	2X/2Y ø8/14.8	46.52	-452.5	SLD 14	227.32	323.65	1477.01	2.5	6.96	41.51	-452.5	SLD 8	227.32	323.65	1477.01	2.5	7.8	Si
4.88	2X/2Y ø8/14.8	46.52	-449.76	SLD 14	226.93	323.65	1476.61	2.5	6.96	41.51	-449.76	SLD 8	226.93	323.65	1476.61	2.5	7.8	Si
5.19	2X/2Y ø8/14.8	46.52	-447.01	SLD 14	226.55	323.65	1476.21	2.5	6.96	41.51	-447.02	SLD 8	226.55	323.65	1476.21	2.5	7.8	Si
5.49	2X/2Y ø8/14.8	46.52	-444.27	SLD 14	226.17	323.65	1475.82	2.5	6.96	41.51	-444.27	SLD 8	226.17	323.65	1475.82	2.5	7.8	Si
5.8	2X/2Y ø8/10	46.52	-441.53	SLD 14	225.78	479.47	1475.42	2.5	10.31	41.51	-441.53	SLD 8	225.78	479.47	1475.42	2.5	11.55	Si
6.1	2X/2Y ø8/10	46.52	-438.83	SLD 14	225.41	479.47	1475.03	2.5	10.31	41.51	-438.83	SLD 8	225.41	479.47	1475.03	2.5	11.55	Si

1.1.13.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	4.09	1961	1.347	0.368	1.298	SLV 1	Si
0.31	4.09	1961	1.347	0.368	1.298	SLV 1	Si
0.61	4.09	1961	1.347	0.368	1.298	SLV 1	Si
0.92	4.09	1961	1.347	0.368	1.298	SLV 1	Si
1.22	4.09	1961	1.347	0.368	1.298	SLV 1	Si
1.53	4.09	1961	1.347	0.368	1.298	SLV 1	Si
1.83	2.761	1961	1.347	0.368	1.298	SLV 1	Si
2.14	2.761	1961	1.347	0.368	1.298	SLV 1	Si
2.44	2.761	1961	1.347	0.368	1.298	SLV 1	Si
2.75	2.761	1961	1.347	0.368	1.298	SLV 1	Si
3.05	2.761	1961	1.347	0.368	1.298	SLV 1	Si
3.36	2.761	1961	1.347	0.368	1.298	SLV 1	Si
3.66	2.761	1961	1.347	0.368	1.298	SLV 1	Si
3.97	2.761	1961	1.347	0.368	1.298	SLV 1	Si
4.27	2.761	1961	1.347	0.368	1.298	SLV 1	Si
4.58	2.761	1961	1.347	0.368	1.298	SLV 1	Si
4.88	2.761	1961	1.347	0.368	1.298	SLV 1	Si
5.19	2.761	1961	1.347	0.368	1.298	SLV 1	Si
5.49	2.761	1961	1.347	0.368	1.298	SLV 1	Si
5.8	4.09	1961	1.347	0.368	1.298	SLV 1	Si
6.1	4.09	1961	1.347	0.368	1.298	SLV 1	Si

1.1.13.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	10.316	1961	3.374	0.368	3.05	SLD 1	Si
0	10.316	1961	3.374	0.368	3.05	SLD 1	Si
0.31	10.316	1961	3.374	0.368	3.05	SLD 1	Si
0.61	10.316	1961	3.374	0.368	3.05	SLD 1	Si
0.92	10.316	1961	3.374	0.368	3.05	SLD 1	Si
1.22	10.316	1961	3.374	0.368	3.05	SLD 1	Si
1.53	10.316	1961	3.374	0.368	3.05	SLD 1	Si
1.83	6.961	1961	3.374	0.368	3.05	SLD 1	Si
2.14	6.961	1961	3.374	0.368	3.05	SLD 1	Si
2.44	6.961	1961	3.374	0.368	3.05	SLD 1	Si
2.75	6.961	1961	3.374	0.368	3.05	SLD 1	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
3.05	6.961	1961	3.374	0.368	3.05	SLD 1	Si
3.36	6.961	1961	3.374	0.368	3.05	SLD 1	Si
3.66	6.961	1961	3.374	0.368	3.05	SLD 1	Si
3.97	6.961	1961	3.374	0.368	3.05	SLD 1	Si
4.27	6.961	1961	3.374	0.368	3.05	SLD 1	Si
4.58	6.961	1961	3.374	0.368	3.05	SLD 1	Si
4.88	6.961	1961	3.374	0.368	3.05	SLD 1	Si
5.19	6.961	1961	3.374	0.368	3.05	SLD 1	Si
5.49	6.961	1961	3.374	0.368	3.05	SLD 1	Si
5.8	10.316	1961	3.374	0.368	3.05	SLD 1	Si
6.1	10.316	1961	3.374	0.368	3.05	SLD 1	Si

1.1.13.4 Verifiche nodi trave colonna

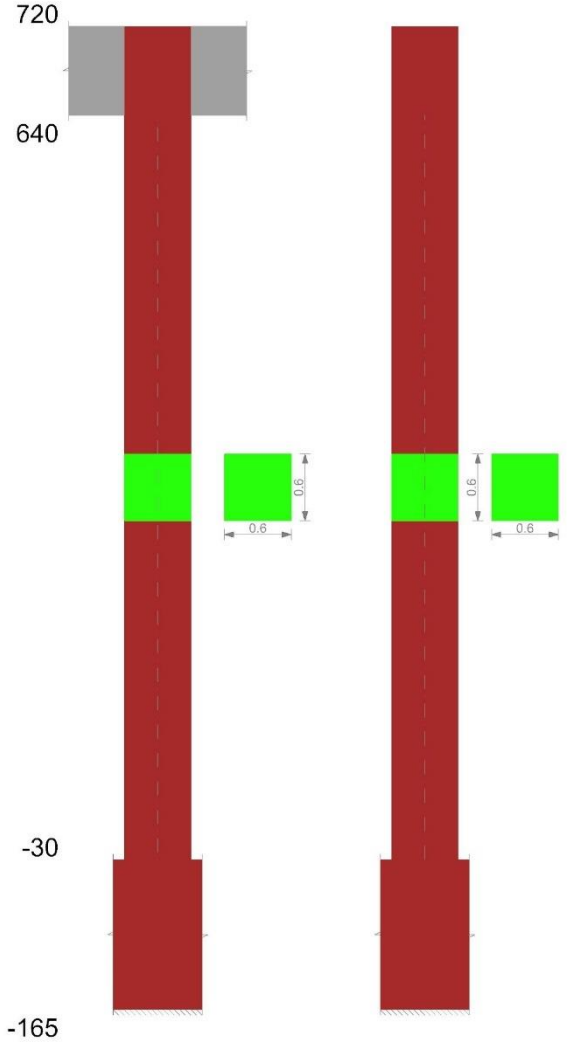
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.13.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.14 P20

Geometria



1.1.14.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.14.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.4	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.14.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2131	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2131	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2131	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2131	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.3	0	-0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0	0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0	-0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.4	0	0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.3	-0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	-0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.4	0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2

1.1.14.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.14.3 Verifiche delle sezioni

1.1.14.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4	-0.1912	0	-757.88	-2.6571	0	SLU 17	13.897	Si
0	0.007175	4	0	1,2,3,4	-0.183	0	-754.33	-2.5554	0	SLU 17	13.962	Si
0.31	0.007175	3.8	0	1,2,4	-0.1749	0	-750.82	-2.4539	0	SLU 17	14.028	Si
0.61	0.007175	3.8	0	1,2,4	-0.1667	0	-747.25	-2.3499	0	SLU 17	14.095	Si
0.92	0.007175	3.8	0	1,2,4	-0.1585	0	-743.69	-2.245	0	SLU 17	14.162	Si
1.22	0.007175	2	0	2,4	-0.1503	0	-740.13	-2.1391	0	SLU 17	14.23	Si
1.53	0.007175	2	0	2,4	-0.1421	0	-736.56	-2.0321	0	SLU 17	14.299	Si
1.83	0.007175	2	0	2,4	-0.1339	0	-733	-1.9241	0	SLU 17	14.369	Si
2.14	0.007175	2	0	2,4	-0.1257	0	-729.44	-1.815	0	SLU 17	14.439	Si
2.44	0.007175	2	0	2,4	-0.1175	0	-725.87	-1.7049	0	SLU 17	14.51	Si
2.75	0.007175	2	0	2,4	-0.1093	0	-722.31	-1.5937	0	SLU 17	14.581	Si
3.05	0.007175	2	0	2,4	-0.1011	0	-718.75	-1.4814	0	SLU 17	14.654	Si
3.35	0.007175	2	0	2,4	-0.0929	0	-715.18	-1.3679	0	SLU 17	14.727	Si
3.66	0.007175	2	0	2,4	-0.0847	0	-711.62	-1.2533	0	SLU 17	14.8	Si
3.96	0.007175	2	0	2,4	-0.0765	0	-708.06	-1.1376	0	SLU 17	14.875	Si
4.27	0.007175	2	0	2,4	-0.0683	0	-704.49	-1.0207	0	SLU 17	14.95	Si
4.57	0.007175	2	0	2,4	-0.0601	0	-700.93	-0.9026	0	SLU 17	15.026	Si
4.88	0.007175	2	0	2,4	-0.0519	0	-697.37	-0.7833	0	SLU 17	15.103	Si
5.18	0.007175	2	0	2,4	-0.0437	0	-693.8	-0.6628	0	SLU 17	15.18	Si
5.49	0.007175	2	0	2,4	-0.0355	0	-690.24	-0.541	0	SLU 17	15.259	Si
5.79	0.007175	2	0	2,4	-0.0273	0	-686.68	-0.418	0	SLU 17	15.338	Si
6.1	0.006009	2	0	2,4	-0.019	0	-683.12	-0.2814	0	SLU 17	14.771	Si
6.4	0.004574	2	0	2,4	-0.011	0	-679.61	-0.1542	0	SLU 17	14.046	Si

1.1.14.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007175	4	0	1,2,3,4	-184.7077	620.6155	-436.95	-280.3072	941.8288	SLV 4	1.518				Si
0	0.007175	4	0	1,2,3,4	-176.6185	593.4612	-434.21	-282.2239	948.3089	SLV 4	1.598				Si
0.31	0.007175	3.8	0	1,2,4	-168.6266	566.6331	-431.51	-284.3279	955.4224	SLV 4	1.686				Si
0.61	0.007175	3.8	0	1,2,4	-160.5195	539.4185	-428.77	-286.7138	963.4887	SLV 4	1.786				Si
0.92	0.007175	3.8	0	1,2,4	-152.4124	512.2038	-426.03	-289.3513	972.407	SLV 4	1.898				Si
1.22	0.007175	2	0	2,4	-144.3053	484.9892	-423.29	-292.2863	982.3321	SLV 4	2.025				Si
1.53	0.007175	2	0	2,4	-136.1982	457.7745	-420.55	-295.6422	993.6807	SLV 4	2.171				Si
1.83	0.007175	2	0	2,4	-128.0911	430.5599	-417.81	-299.4918	1006.6992	SLV 4	2.338				Si
2.14	0.007175	2	0	2,4	-119.9839	403.3453	-415.06	-303.8508	1021.4433	SLV 4	2.532				Si
2.44	0.007175	2	0	2,4	-111.8768	376.1306	-412.32	-309.0004	1038.8612	SLV 4	2.762				Si
2.75	0.007175	2	0	2,4	-103.7697	348.916	-409.58	-314.9438	1058.969	SLV 4	3.035				Si
3.05	0.007175	2	0	2,4	-95.6626	321.7014	-406.84	-322.058	1083.0404	SLV 4	3.367				Si
3.35	0.007175	2	0	2,4	-87.5555	294.4867	-404.1	-330.5351	1111.7309	SLV 4	3.775				Si
3.66	0.007175	2	0	2,4	-79.4485	267.2721	-401.36	-340.3744	1145.0518	SLV 4	4.284				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.96	0.007175	2	0	2,4	-71.3414	240.0575	-398.62	-352.8806	1187.4123	SLV 4	4.946				Si
4.27	0.007175	2	0	2,4	-63.2343	212.8428	-395.88	-368.5254	1240.4345	SLV 4	5.828				Si
4.57	0.007175	2	0	2,4	-55.1272	185.6282	-393.14	-387.9498	1306.3321	SLV 4	7.037				Si
4.88	0.007175	2	0	2,4	-47.0201	158.4136	-390.4	-408.6938	1376.9133	SLV 4	8.692				Si
5.18	0.007175	2	0	2,4	-38.9131	131.1989	-387.66	-428.1152	1443.4288	SLV 4	11.002				Si
5.49	0.007175	2	0	2,4	-30.8061	103.9843	-384.91	-445.9387	1505.2438	SLV 4	14.476				Si
5.79	0.007175	2	0	2,4	-22.6991	76.7696	-382.17	-442.5191	1496.6252	SLV 4	19.495				Si
6.1	0.006009	2	0	2,4	-14.5923	49.555	-379.43	-374.376	1271.3674	SLV 4	25.656				Si
6.4	0.004574	2	0	2,4	-6.6183	22.7872	-376.74	-225.4913	776.3843	SLV 4	34.071				Si

1.1.14.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4	-73.5504	246.2459	-436.95	-363.6395	1217.4616	SLD 4	4.944	Si
0	0.007175	4	0	1,2,3,4	-70.3293	235.4717	-434.21	-369.0248	1235.5427	SLD 4	5.247	Si
0.31	0.007175	3.8	0	1,2,4	-67.147	224.8269	-431.51	-374.7718	1254.8401	SLD 4	5.581	Si
0.61	0.007175	3.8	0	1,2,4	-63.9189	214.0288	-428.77	-381.1545	1276.2749	SLD 4	5.963	Si
0.92	0.007175	3.8	0	1,2,4	-60.6907	203.2307	-426.03	-388.181	1299.8742	SLD 4	6.396	Si
1.22	0.007175	2	0	2,4	-57.4625	192.4325	-423.29	-395.5292	1324.5618	SLD 4	6.883	Si
1.53	0.007175	2	0	2,4	-54.2344	181.6344	-420.55	-402.3745	1347.5778	SLD 4	7.419	Si
1.83	0.007175	2	0	2,4	-51.0062	170.8362	-417.81	-409.5929	1371.8587	SLD 4	8.03	Si
2.14	0.007175	2	0	2,4	-47.7781	160.0381	-415.06	-418.1109	1400.5108	SLD 4	8.751	Si
2.44	0.007175	2	0	2,4	-44.5499	149.24	-412.32	-424.2347	1421.1657	SLD 4	9.523	Si
2.75	0.007175	2	0	2,4	-41.3217	138.4418	-409.58	-430.4023	1441.9939	SLD 4	10.416	Si
3.05	0.007175	2	0	2,4	-38.0936	127.6437	-406.84	-437.7025	1466.651	SLD 4	11.49	Si
3.35	0.007175	2	0	2,4	-34.8654	116.8455	-404.1	-443.7097	1487.0184	SLD 4	12.726	Si
3.66	0.007175	2	0	2,4	-31.6372	106.0474	-401.36	-450.101	1508.7296	SLD 4	14.227	Si
3.96	0.007175	2	0	2,4	-28.4091	95.2493	-398.62	-452.2814	1516.3975	SLD 4	15.92	Si
4.27	0.007175	2	0	2,4	-25.1809	84.4511	-395.88	-450.4683	1510.7684	SLD 4	17.889	Si
4.57	0.007175	2	0	2,4	-21.9528	73.653	-393.14	-439.8871	1475.8496	SLD 4	20.038	Si
4.88	0.007175	2	0	2,4	-18.7246	62.8548	-390.4	-423.2113	1420.636	SLD 4	22.602	Si
5.18	0.007175	2	0	2,4	-15.4965	52.0567	-387.66	-397.8679	1336.5409	SLD 4	25.675	Si
5.49	0.007175	2	0	2,4	-12.2684	41.2586	-384.91	-358.7627	1206.5209	SLD 4	29.243	Si
5.79	0.007175	2	0	2,4	-9.0403	30.4604	-382.17	-300.8426	1013.6644	SLD 4	33.278	Si
6.1	0.006009	2	0	2,4	-5.8122	19.6623	-379.43	-212.3061	718.2116	SLD 4	36.527	Si
6.4	0.004574	2	0	2,4	8.4542	2.7128	-376.74	305.2251	97.94	SLD 6	36.103	Si

1.1.14.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	1.439	1961	1.347	0.368	1.298	SLV 3	Si
0	1.504	1961	1.347	0.368	1.298	SLV 3	Si
0.31	1.574	1961	1.347	0.368	1.298	SLV 3	Si
0.61	1.652	1961	1.347	0.368	1.298	SLV 3	Si
0.92	1.738	1961	1.347	0.368	1.298	SLV 3	Si
1.22	1.836	1961	1.347	0.368	1.298	SLV 3	Si
1.53	1.941	1961	1.347	0.368	1.298	SLV 3	Si
1.83	2.063	1961	1.347	0.368	1.298	SLV 3	Si
2.14	2.201	1961	1.347	0.368	1.298	SLV 3	Si
2.44	2.359	1961	1.347	0.368	1.298	SLV 3	Si
2.75	2.541	1961	1.347	0.368	1.298	SLV 3	Si
3.05	2.758	1961	1.347	0.368	1.298	SLV 1	Si
3.35	3.01	1961	1.347	0.368	1.298	SLV 3	Si
3.66	3.314	1961	1.347	0.368	1.298	SLV 3	Si
3.96	3.684	1961	1.347	0.368	1.298	SLV 3	Si
4.27	4.151	1961	1.347	0.368	1.298	SLV 3	Si
4.57	4.76	1961	1.347	0.368	1.298	SLV 3	Si
4.88	5.573	1961	1.347	0.368	1.298	SLV 3	Si
5.18	6.729	1961	1.347	0.368	1.298	SLV 3	Si
5.49	8.485	1961	1.347	0.368	1.298	SLV 1	Si
5.79	11.474	1961	1.347	0.368	1.298	SLV 3	Si
6.1	15.326	1961	1.347	0.368	1.298	SLV 3	Si
6.4	26.732	1961	1.347	0.368	1.298	SLV 3	Si

1.1.14.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	3.625	1961	3.374	0.368	3.05	SLD 3	Si
0	3.789	1961	3.374	0.368	3.05	SLD 3	Si
0.31	3.965	1961	3.374	0.368	3.05	SLD 3	Si
0.61	4.165	1961	3.374	0.368	3.05	SLD 3	Si
0.92	4.384	1961	3.374	0.368	3.05	SLD 3	Si
1.22	4.623	1961	3.374	0.368	3.05	SLD 3	Si
1.53	4.896	1961	3.374	0.368	3.05	SLD 3	Si
1.83	5.204	1961	3.374	0.368	3.05	SLD 3	Si
2.14	5.553	1961	3.374	0.368	3.05	SLD 3	Si
2.44	5.949	1961	3.374	0.368	3.05	SLD 3	Si
2.75	6.407	1961	3.374	0.368	3.05	SLD 3	Si
3.05	6.947	1961	3.374	0.368	3.05	SLD 3	Si
3.35	7.576	1961	3.374	0.368	3.05	SLD 3	Si
3.66	8.354	1961	3.374	0.368	3.05	SLD 3	Si
3.96	9.291	1961	3.374	0.368	3.05	SLD 3	Si
4.27	10.463	1961	3.374	0.368	3.05	SLD 3	Si
4.57	11.986	1961	3.374	0.368	3.05	SLD 3	Si
4.88	14.037	1961	3.374	0.368	3.05	SLD 3	Si
5.18	16.954	1961	3.374	0.368	3.05	SLD 3	Si
5.49	21.374	1961	3.374	0.368	3.05	SLD 3	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
5.79	28.912	1961	3.374	0.368	3.05	SLD 3	Si
6.1	38.652	1961	3.374	0.368	3.05	SLD 3	Si
6.4	67.353	1961	3.374	0.368	3.05	SLD 3	Si

1.1.14.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	0	-408.83	SLU 1	221.21	479.47	1470.69	2.5	1000	0.01	-408.83	SLU 1	221.21	479.47	1470.69	2.5	1000	Si
0	2X/2Y ø8/10	0	-406.09	SLU 1	220.83	479.47	1470.3	2.5	1000	0.01	-406.09	SLU 1	220.83	479.47	1470.3	2.5	1000	Si
0.31	2X/2Y ø8/10	0	-403.39	SLU 1	220.46	479.47	1469.91	2.5	1000	0.01	-403.39	SLU 1	220.46	479.47	1469.91	2.5	1000	Si
0.61	2X/2Y ø8/10	0	-400.65	SLU 1	220.07	479.47	1469.51	2.5	1000	0.01	-400.65	SLU 1	220.07	479.47	1469.51	2.5	1000	Si
0.92	2X/2Y ø8/10	0	-397.91	SLU 1	219.69	479.47	1469.11	2.5	1000	0.01	-397.91	SLU 1	219.69	479.47	1469.11	2.5	1000	Si
1.22	2X/2Y ø8/10	0	-395.17	SLU 1	219.31	479.47	1468.72	2.5	1000	0.01	-395.17	SLU 1	219.31	479.47	1468.72	2.5	1000	Si
1.53	2X/2Y ø8/10	0	-392.43	SLU 1	218.92	479.47	1468.32	2.5	1000	0.01	-392.43	SLU 1	218.92	479.47	1468.32	2.5	1000	Si
1.83	2X/2Y ø8/14.8	0	-389.69	SLU 1	218.54	323.65	1467.93	2.5	1000	0.01	-389.69	SLU 1	218.54	323.65	1467.93	2.5	1000	Si
2.14	2X/2Y ø8/14.8	0	-386.95	SLU 1	218.16	323.65	1467.53	2.5	1000	0.01	-386.95	SLU 1	218.16	323.65	1467.53	2.5	1000	Si
2.44	2X/2Y ø8/14.8	0	-384.21	SLU 1	217.77	323.65	1467.13	2.5	1000	0.01	-384.21	SLU 1	217.77	323.65	1467.13	2.5	1000	Si
2.75	2X/2Y ø8/14.8	0	-381.46	SLU 1	217.39	323.65	1466.74	2.5	1000	0.01	-381.46	SLU 1	217.39	323.65	1466.74	2.5	1000	Si
3.05	2X/2Y ø8/14.8	0	-378.72	SLU 1	217.01	323.65	1466.34	2.5	1000	0.01	-378.72	SLU 1	217.01	323.65	1466.34	2.5	1000	Si
3.35	2X/2Y ø8/14.8	0	-375.98	SLU 1	216.62	323.65	1465.94	2.5	1000	0.01	-375.98	SLU 1	216.62	323.65	1465.94	2.5	1000	Si
3.66	2X/2Y ø8/14.8	0	-373.24	SLU 1	216.24	323.65	1465.55	2.5	1000	0.01	-373.24	SLU 1	216.24	323.65	1465.55	2.5	1000	Si
3.96	2X/2Y ø8/14.8	0	-370.5	SLU 1	215.86	323.65	1465.15	2.5	1000	0.01	-370.5	SLU 1	215.86	323.65	1465.15	2.5	1000	Si
4.27	2X/2Y ø8/14.8	0	-367.76	SLU 1	215.48	323.65	1464.76	2.5	1000	0.01	-367.76	SLU 1	215.48	323.65	1464.76	2.5	1000	Si
4.57	2X/2Y ø8/14.8	0	-365.02	SLU 1	215.09	323.65	1464.36	2.5	1000	0.01	-365.02	SLU 1	215.09	323.65	1464.36	2.5	1000	Si
4.88	2X/2Y ø8/14.8	0	-362.28	SLU 1	214.71	323.65	1463.96	2.5	1000	0.01	-362.28	SLU 1	214.71	323.65	1463.96	2.5	1000	Si
5.18	2X/2Y ø8/14.8	0	-359.54	SLU 1	214.33	323.65	1463.57	2.5	1000	0.01	-359.54	SLU 1	214.33	323.65	1463.57	2.5	1000	Si
5.49	2X/2Y ø8/14.8	0	-356.8	SLU 1	213.94	323.65	1463.17	2.5	1000	0.01	-356.8	SLU 1	213.94	323.65	1463.17	2.5	1000	Si
5.79	2X/2Y ø8/10	0	-354.06	SLU 1	213.56	479.47	1462.77	2.5	1000	0.01	-354.06	SLU 1	213.56	479.47	1462.77	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-351.31	SLU 1	213.18	479.47	1462.38	2.5	1000	0.01	-351.31	SLU 1	213.18	479.47	1462.38	2.5	1000	Si
6.4	2X/2Y ø8/10	0	-348.62	SLU 1	212.8	479.47	1461.99	2.5	1000	0.01	-348.62	SLU 1	212.8	479.47	1461.99	2.5	1000	Si

1.1.14.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	89.36	-436.95	SLV 16	225.14	479.47	1474.76	2.5	5.37	86.17	-436.95	SLV 8	225.14	479.47	1474.76	2.5	5.56	Si
0	2X/2Y ø8/10	89.36	-434.21	SLV 16	224.76	479.47	1474.36	2.5	5.37	86.17	-434.21	SLV 8	224.76	479.47	1474.36	2.5	5.56	Si
0.31	2X/2Y ø8/10	89.36	-431.51	SLV 16	224.38	479.47	1473.97	2.5	5.37	86.17	-431.51	SLV 8	224.38	479.47	1473.97	2.5	5.56	Si
0.61	2X/2Y ø8/10	89.36	-428.77	SLV 16	224	479.47	1473.58	2.5	5.37	86.17	-428.77	SLV 8	224	479.47	1473.58	2.5	5.56	Si
0.92	2X/2Y ø8/10	89.36	-426.03	SLV 16	223.62	479.47	1473.18	2.5	5.37	86.17	-426.03	SLV 8	223.62	479.47	1473.18	2.5	5.56	Si
1.22	2X/2Y ø8/10	89.36	-423.29	SLV 16	223.24	479.47	1472.78	2.5	5.37	86.17	-423.29	SLV 8	223.24	479.47	1472.78	2.5	5.56	Si
1.53	2X/2Y ø8/10	89.36	-420.55	SLV 16	222.85	479.47	1472.39	2.5	5.37	86.17	-420.55	SLV 8	222.85	479.47	1472.39	2.5	5.56	Si
1.83	2X/2Y ø8/14.8	89.36	-417.8	SLV 16	222.47	323.65	1471.99	2.5	3.62	86.17	-417.8	SLV 8	222.47	323.65	1471.99	2.5	3.76	Si
2.14	2X/2Y ø8/14.8	89.36	-415.06	SLV 16	222.09	323.65	1471.59	2.5	3.62	86.17	-415.06	SLV 8	222.09	323.65	1471.59	2.5	3.76	Si
2.44	2X/2Y ø8/14.8	89.36	-412.32	SLV 16	221.7	323.65	1471.2	2.5	3.62	86.17	-412.32	SLV 8	221.7	323.65	1471.2	2.5	3.76	Si
2.75	2X/2Y ø8/14.8	89.36	-409.58	SLV 16	221.32	323.65	1470.8	2.5	3.62	86.17	-409.58	SLV 8	221.32	323.65	1470.8	2.5	3.76	Si
3.05	2X/2Y ø8/14.8	89.36	-406.84	SLV 16	220.94	323.65	1470.41	2.5	3.62	86.17	-406.84	SLV 8	220.94	323.65	1470.41	2.5	3.76	Si
3.35	2X/2Y ø8/14.8	89.36	-404.1	SLV 16	220.55	323.65	1470.01	2.5	3.62	86.17	-404.1	SLV 8	220.55	323.65	1470.01	2.5	3.76	Si
3.66	2X/2Y ø8/14.8	89.36	-401.36	SLV 16	220.17	323.65	1469.61	2.5	3.62	86.17	-401.36	SLV 8	220.17	323.65	1469.61	2.5	3.76	Si
3.96	2X/2Y ø8/14.8	89.36	-398.62	SLV 16	219.79	323.65	1469.22	2.5	3.62	86.17	-398.62	SLV 8	219.79	323.65	1469.22	2.5	3.76	Si
4.27	2X/2Y ø8/14.8	89.36	-395.88	SLV 16	219.4	323.65	1468.82	2.5	3.62	86.17	-395.88	SLV 8	219.4	323.65	1468.82	2.5	3.76	Si
4.57	2X/2Y ø8/14.8	89.36	-393.14	SLV 16	219.02	323.65	1468.42	2.5	3.62	86.17	-393.14	SLV 8	219.02	323.65	1468.42	2.5	3.76	Si
4.88	2X/2Y ø8/14.8	89.36	-390.4	SLV 16	218.64	323.65	1468.03	2.5	3.62	86.17	-390.4	SLV 8	218.64	323.65	1468.03	2.5	3.76	Si
5.18	2X/2Y ø8/14.8	89.36	-387.65	SLV 16	218.26	323.65	1467.63	2.5	3.62	86.17	-387.65	SLV 8	218.26	323.65	1467.63	2.5	3.76	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
5.49	2X/2Y ø8/14.8	89.36	-384.91	SLV 16	217.87	323.65	1467.24	2.5	3.62	86.17	-384.91	SLV 8	217.87	323.65	1467.24	2.5	3.76	Si
5.79	2X/2Y ø8/10	89.36	-382.17	SLV 16	217.49	479.47	1466.84	2.5	5.37	86.17	-382.17	SLV 8	217.49	479.47	1466.84	2.5	5.56	Si
6.1	2X/2Y ø8/10	89.36	-379.43	SLV 16	217.11	479.47	1466.44	2.5	5.37	86.17	-379.43	SLV 8	217.11	479.47	1466.44	2.5	5.56	Si
6.4	2X/2Y ø8/10	89.36	-376.74	SLV 16	216.73	479.47	1466.05	2.5	5.37	86.17	-376.74	SLV 8	216.73	479.47	1466.05	2.5	5.56	Si

1.1.14.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	6.8	X	7.625	0.173	0.6	0.0199	0.007102	0.023198	0	225.144	2138.398	479.475	191.79	274.295	479.475	89.363	-436.946	SLV 16	Si
-0.3	-0.975	6.8	Y	7.618	0.173	0.6	0.0199	0.006256	0.023198	0	225.144	2138.398	479.475	191.79	274.304	479.475	86.174	-436.946	SLV 8	Si

1.1.14.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	35.46	-436.95	SLD 16	225.14	479.47	1474.76	2.5	13.52	34.22	-436.95	SLD 8	225.14	479.47	1474.76	2.5	14.01	Si
0	2X/2Y ø8/10	35.46	-434.21	SLD 16	224.76	479.47	1474.36	2.5	13.52	34.22	-434.21	SLD 8	224.76	479.47	1474.36	2.5	14.01	Si
0.31	2X/2Y ø8/10	35.46	-431.51	SLD 16	224.38	479.47	1473.97	2.5	13.52	34.22	-431.51	SLD 8	224.38	479.47	1473.97	2.5	14.01	Si
0.61	2X/2Y ø8/10	35.46	-428.77	SLD 16	224	479.47	1473.58	2.5	13.52	34.22	-428.77	SLD 8	224	479.47	1473.58	2.5	14.01	Si
0.92	2X/2Y ø8/10	35.46	-426.03	SLD 16	223.62	479.47	1473.18	2.5	13.52	34.22	-426.03	SLD 8	223.62	479.47	1473.18	2.5	14.01	Si
1.22	2X/2Y ø8/10	35.46	-423.29	SLD 16	223.24	479.47	1472.78	2.5	13.52	34.22	-423.29	SLD 8	223.24	479.47	1472.78	2.5	14.01	Si
1.53	2X/2Y ø8/10	35.46	-420.55	SLD 16	222.85	479.47	1472.39	2.5	13.52	34.22	-420.55	SLD 8	222.85	479.47	1472.39	2.5	14.01	Si
1.83	2X/2Y ø8/14.8	35.46	-417.8	SLD 16	222.47	323.65	1471.99	2.5	9.13	34.22	-417.8	SLD 8	222.47	323.65	1471.99	2.5	9.46	Si
2.14	2X/2Y ø8/14.8	35.46	-415.06	SLD 16	222.09	323.65	1471.59	2.5	9.13	34.22	-415.06	SLD 8	222.09	323.65	1471.59	2.5	9.46	Si
2.44	2X/2Y ø8/14.8	35.46	-412.32	SLD 16	221.7	323.65	1471.2	2.5	9.13	34.22	-412.32	SLD 8	221.7	323.65	1471.2	2.5	9.46	Si
2.75	2X/2Y ø8/14.8	35.46	-409.58	SLD 16	221.32	323.65	1470.8	2.5	9.13	34.22	-409.58	SLD 8	221.32	323.65	1470.8	2.5	9.46	Si
3.05	2X/2Y ø8/14.8	35.46	-406.84	SLD 16	220.94	323.65	1470.41	2.5	9.13	34.22	-406.84	SLD 8	220.94	323.65	1470.41	2.5	9.46	Si
3.35	2X/2Y ø8/14.8	35.46	-404.1	SLD 16	220.55	323.65	1470.01	2.5	9.13	34.22	-404.1	SLD 8	220.55	323.65	1470.01	2.5	9.46	Si
3.66	2X/2Y ø8/14.8	35.46	-401.36	SLD 16	220.17	323.65	1469.61	2.5	9.13	34.22	-401.36	SLD 8	220.17	323.65	1469.61	2.5	9.46	Si
3.96	2X/2Y ø8/14.8	35.46	-398.62	SLD 16	219.79	323.65	1469.22	2.5	9.13	34.22	-398.62	SLD 8	219.79	323.65	1469.22	2.5	9.46	Si
4.27	2X/2Y ø8/14.8	35.46	-395.88	SLD 16	219.4	323.65	1468.82	2.5	9.13	34.22	-395.88	SLD 8	219.4	323.65	1468.82	2.5	9.46	Si
4.57	2X/2Y ø8/14.8	35.46	-393.14	SLD 16	219.02	323.65	1468.42	2.5	9.13	34.22	-393.14	SLD 8	219.02	323.65	1468.42	2.5	9.46	Si
4.88	2X/2Y ø8/14.8	35.46	-390.4	SLD 16	218.64	323.65	1468.03	2.5	9.13	34.22	-390.4	SLD 8	218.64	323.65	1468.03	2.5	9.46	Si
5.18	2X/2Y ø8/14.8	35.46	-387.65	SLD 16	218.26	323.65	1467.63	2.5	9.13	34.22	-387.65	SLD 8	218.26	323.65	1467.63	2.5	9.46	Si
5.49	2X/2Y ø8/14.8	35.46	-384.91	SLD 16	217.87	323.65	1467.24	2.5	9.13	34.22	-384.91	SLD 8	217.87	323.65	1467.24	2.5	9.46	Si
5.79	2X/2Y ø8/10	35.46	-382.17	SLD 16	217.49	479.47	1466.84	2.5	13.52	34.22	-382.17	SLD 8	217.49	479.47	1466.84	2.5	14.01	Si
6.1	2X/2Y ø8/10	35.46	-379.43	SLD 16	217.11	479.47	1466.44	2.5	13.52	34.22	-379.43	SLD 8	217.11	479.47	1466.44	2.5	14.01	Si
6.4	2X/2Y ø8/10	35.46	-376.74	SLD 16	216.73	479.47	1466.05	2.5	13.52	34.22	-376.74	SLD 8	216.73	479.47	1466.05	2.5	14.01	Si

1.1.14.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	5.361	1961	1.347	0.368	1.298	SLV 1	Si
0.31	5.361	1961	1.347	0.368	1.298	SLV 1	Si
0.61	5.361	1961	1.347	0.368	1.298	SLV 1	Si
0.92	5.361	1961	1.347	0.368	1.298	SLV 1	Si
1.22	5.361	1961	1.347	0.368	1.298	SLV 1	Si
1.53	5.361	1961	1.347	0.368	1.298	SLV 1	Si
1.83	3.625	1961	1.347	0.368	1.298	SLV 1	Si
2.14	3.625	1961	1.347	0.368	1.298	SLV 1	Si
2.44	3.625	1961	1.347	0.368	1.298	SLV 1	Si
2.75	3.625	1961	1.347	0.368	1.298	SLV 1	Si
3.05	3.625	1961	1.347	0.368	1.298	SLV 1	Si
3.35	3.625	1961	1.347	0.368	1.298	SLV 1	Si
3.66	3.625	1961	1.347	0.368	1.298	SLV 1	Si
3.96	3.625	1961	1.347	0.368	1.298	SLV 1	Si
4.27	3.625	1961	1.347	0.368	1.298	SLV 1	Si
4.57	3.625	1961	1.347	0.368	1.298	SLV 1	Si
4.88	3.625	1961	1.347	0.368	1.298	SLV 1	Si
5.18	3.625	1961	1.347	0.368	1.298	SLV 1	Si
5.49	3.625	1961	1.347	0.368	1.298	SLV 1	Si
5.79	5.361	1961	1.347	0.368	1.298	SLV 1	Si
6.1	5.361	1961	1.347	0.368	1.298	SLV 1	Si
6.4	5.361	1961	1.347	0.368	1.298	SLV 1	Si

1.1.14.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	13.51	1961	3.374	0.368	3.05	SLD 1	Si
0	13.51	1961	3.374	0.368	3.05	SLD 1	Si
0.31	13.51	1961	3.374	0.368	3.05	SLD 1	Si
0.61	13.51	1961	3.374	0.368	3.05	SLD 1	Si
0.92	13.51	1961	3.374	0.368	3.05	SLD 1	Si
1.22	13.51	1961	3.374	0.368	3.05	SLD 1	Si
1.53	13.51	1961	3.374	0.368	3.05	SLD 1	Si
1.83	9.13	1961	3.374	0.368	3.05	SLD 1	Si
2.14	9.13	1961	3.374	0.368	3.05	SLD 1	Si
2.44	9.13	1961	3.374	0.368	3.05	SLD 1	Si
2.75	9.13	1961	3.374	0.368	3.05	SLD 1	Si
3.05	9.13	1961	3.374	0.368	3.05	SLD 1	Si
3.35	9.13	1961	3.374	0.368	3.05	SLD 1	Si
3.66	9.13	1961	3.374	0.368	3.05	SLD 1	Si
3.96	9.13	1961	3.374	0.368	3.05	SLD 1	Si
4.27	9.13	1961	3.374	0.368	3.05	SLD 1	Si
4.57	9.13	1961	3.374	0.368	3.05	SLD 1	Si
4.88	9.13	1961	3.374	0.368	3.05	SLD 1	Si
5.18	9.13	1961	3.374	0.368	3.05	SLD 1	Si
5.49	9.13	1961	3.374	0.368	3.05	SLD 1	Si
5.79	13.51	1961	3.374	0.368	3.05	SLD 1	Si
6.1	13.51	1961	3.374	0.368	3.05	SLD 1	Si
6.4	13.51	1961	3.374	0.368	3.05	SLD 1	Si

1.1.14.4 Verifiche nodi trave colonna

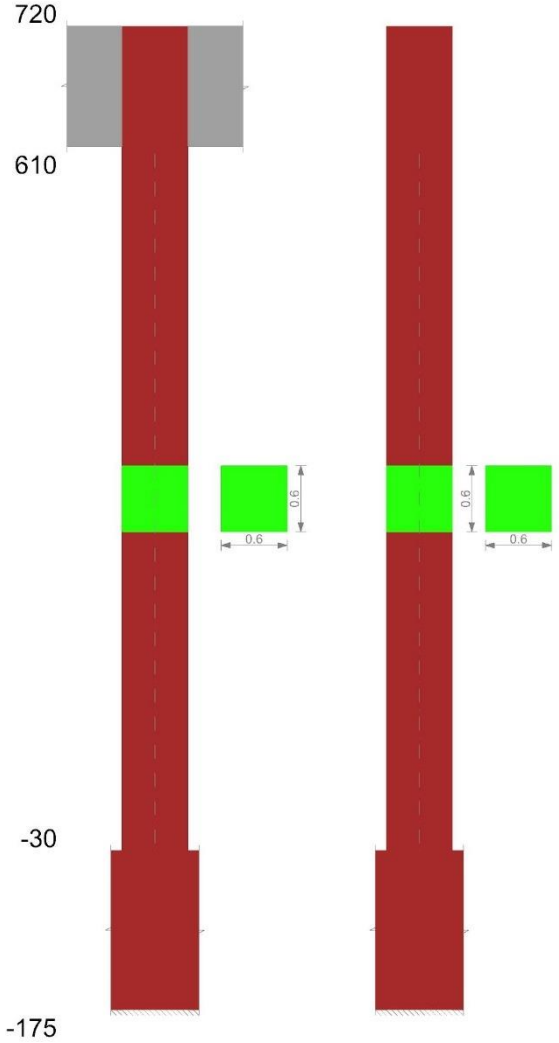
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.14.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.15 P22

Geometria



1.1.15.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.15.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.1	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.15.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2531	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2131	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	-0.2131	-0.2531	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	0.2531	-0.2531	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	0.2531	-0.2131	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	0.2131	-0.2531	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	0.2531	0.2531	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	0.2531	0.2131	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	0.2131	0.2531	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	-0.2531	0.2531	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	-0.2531	0.2131	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.2	-0.2131	0.2531	0.026	0.0005309	-0.299	6.65	R 60x60_1	Armature LC2
p.3	0	-0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0	0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0	-0.259	0.016	0.0002011	-0.299	6.65	R 60x60_1	Armature LC2
p.4	0	0.259	0.016	0.0002011	-0.299	6.65	R 60x60_1	Armature LC2
p.3	-0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	-0.259	0	0.016	0.0002011	-0.299	6.65	R 60x60_1	Armature LC2
p.4	0.259	0	0.016	0.0002011	-0.299	6.65	R 60x60_1	Armature LC2

1.1.15.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.15.3 Verifiche delle sezioni

1.1.15.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4	0.0001	0	-968.3	0.0012	0	SLU 18	10.877	Si
0	0.007175	4	0	1,2,3,4	0.0001	0	-964.74	0	0	SLU 18	10.917	Si
0.31	0.007175	3.8	0	1,2,4	0.0001	0	-961.23	0	0	SLU 18	10.957	Si
0.61	0.007175	3.8	0	1,2,4	0.0001	0	-957.66	0	0	SLU 18	10.998	Si
0.92	0.007175	3.8	0	1,2,4	0	0	-954.1	0	0	SLU 18	11.039	Si
1.22	0.007175	2	0	2,4	0	0	-950.53	0	0	SLU 18	11.08	Si
1.53	0.007175	2	0	2,4	0	0	-946.96	0	0	SLU 18	11.122	Si
1.83	0.007175	2	0	2,4	0	0	-943.4	0	0	SLU 18	11.164	Si
2.14	0.007175	2	0	2,4	0	0	-939.83	0	0	SLU 18	11.206	Si
2.44	0.007175	2	0	2,4	0	0	-936.27	0	0	SLU 18	11.249	Si
2.75	0.007175	2	0	2,4	0	0	-932.7	0	0	SLU 18	11.292	Si
3.05	0.007175	2	0	2,4	-0.0001	0	-929.14	0	0	SLU 18	11.336	Si
3.36	0.007175	2	0	2,4	-0.0001	0	-925.57	0	0	SLU 18	11.379	Si
3.66	0.007175	2	0	2,4	-0.0001	0	-922	0	0	SLU 18	11.423	Si
3.97	0.007175	2	0	2,4	-0.0001	0	-918.44	-0.0012	0	SLU 18	11.468	Si
4.27	0.007175	2	0	2,4	-0.0001	0	-914.87	-0.0013	0	SLU 18	11.512	Si
4.58	0.007175	2	0	2,4	-0.0001	0	-911.31	-0.0015	0	SLU 18	11.557	Si
4.88	0.007175	2	0	2,4	-0.0001	0	-907.74	-0.0017	0	SLU 18	11.603	Si
5.19	0.007175	2	0	2,4	-0.0002	0	-904.18	-0.0019	0	SLU 18	11.648	Si
5.49	0.006268	2	0	2,4	-0.0002	0	-900.61	-0.002	0	SLU 18	11.313	Si
5.8	0.004832	2	0	2,4	-0.0002	0	-897.04	-0.0021	0	SLU 18	10.751	Si
6.1	0.003396	2	0	2,4	-0.0002	0	-893.54	-0.0021	0	SLU 18	10.183	Si

1.1.15.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007175	4	0	1,2,3,4	-194.5881	751.1391	-494.71	-242.497	936.0749	SLV 3	1.246				Si
0	0.007175	4	0	1,2,3,4	-186.0724	718.2738	-491.98	-244.148	942.4566	SLV 3	1.312				Si
0.31	0.007175	3.8	0	1,2,4	-177.6469	685.7566	-489.27	-245.9629	949.4717	SLV 3	1.385				Si
0.61	0.007175	3.8	0	1,2,4	-169.1063	652.7949	-486.53	-248.0193	957.4202	SLV 3	1.467				Si
0.92	0.007175	3.8	0	1,2,4	-160.5656	619.8333	-483.78	-250.3349	966.3706	SLV 3	1.559				Si
1.22	0.007175	2	0	2,4	-152.025	586.8717	-481.04	-252.9312	976.4062	SLV 3	1.664				Si
1.53	0.007175	2	0	2,4	-143.4843	553.91	-478.3	-255.8103	987.5355	SLV 3	1.783				Si
1.83	0.007175	2	0	2,4	-134.9437	520.9484	-475.56	-259.1335	1000.3813	SLV 3	1.92				Si
2.14	0.007175	2	0	2,4	-126.4031	487.9867	-472.81	-262.9767	1015.2377	SLV 3	2.08				Si
2.44	0.007175	2	0	2,4	-117.8624	455.0251	-470.07	-267.3989	1032.3326	SLV 3	2.269				Si
2.75	0.007175	2	0	2,4	-109.3218	422.0635	-467.33	-272.6088	1052.4726	SLV 3	2.494				Si
3.05	0.007175	2	0	2,4	-100.7812	389.1018	-464.58	-278.5663	1075.5051	SLV 3	2.764				Si
3.36	0.007175	2	0	2,4	-92.2405	356.1402	-461.84	-285.9145	1103.9142	SLV 3	3.1				Si
3.66	0.007175	2	0	2,4	-83.6999	323.1786	-459.1	-294.9261	1138.7561	SLV 3	3.524				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.97	0.007175	2	0	2,4	-75.1593	290.2169	-456.36	-305.7615	1180.6547	SLV 3	4.068				Si
4.27	0.007175	2	0	2,4	-66.6187	257.2553	-453.61	-319.5302	1233.9009	SLV 4	4.796				Si
4.58	0.007175	2	0	2,4	-58.0781	224.2936	-450.87	-337.2131	1302.2948	SLV 4	5.806				Si
4.88	0.007175	2	0	2,4	-49.5375	191.332	-448.13	-358.7336	1385.5617	SLV 4	7.242				Si
5.19	0.007175	2	0	2,4	-40.9969	158.3704	-445.38	-379.3429	1465.396	SLV 4	9.253				Si
5.49	0.006268	2	0	2,4	-32.4563	125.4087	-442.64	-373.4916	1443.1423	SLV 4	11.508				Si
5.8	0.004832	2	0	2,4	-23.9158	92.4471	-439.9	-351.6562	1359.3331	SLV 4	14.704				Si
6.1	0.003396	2	0	2,4	-15.5156	60.0262	-437.2	-305.3594	1181.362	SLV 4	19.681				Si

1.1.15.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4	-77.3344	298.0442	-494.71	-312.5299	1204.4795	SLD 3	4.041	Si
0	0.007175	4	0	1,2,3,4	-73.9501	285.0036	-491.98	-317.3527	1223.0777	SLD 3	4.291	Si
0.31	0.007175	3.8	0	1,2,4	-70.6015	272.1011	-489.27	-322.6622	1243.5531	SLD 3	4.57	Si
0.61	0.007175	3.8	0	1,2,4	-67.2072	259.0223	-486.53	-328.5625	1266.3077	SLD 3	4.889	Si
0.92	0.007175	3.8	0	1,2,4	-63.8129	245.9435	-483.78	-334.8347	1290.4971	SLD 3	5.247	Si
1.22	0.007175	2	0	2,4	-60.4186	232.8646	-481.04	-341.6179	1316.659	SLD 3	5.654	Si
1.53	0.007175	2	0	2,4	-57.0243	219.7858	-478.3	-349.5577	1347.2811	SLD 3	6.13	Si
1.83	0.007175	2	0	2,4	-53.63	206.707	-475.56	-357.1092	1376.4105	SLD 3	6.659	Si
2.14	0.007175	2	0	2,4	-50.2357	193.6281	-472.81	-364.5167	1404.9894	SLD 3	7.256	Si
2.44	0.007175	2	0	2,4	-46.8414	180.5493	-470.07	-372.6172	1436.2444	SLD 3	7.955	Si
2.75	0.007175	2	0	2,4	-43.4472	167.4704	-467.33	-379.3953	1462.409	SLD 3	8.732	Si
3.05	0.007175	2	0	2,4	-40.0529	154.3916	-464.58	-385.7718	1487.0333	SLD 3	9.632	Si
3.36	0.007175	2	0	2,4	-36.6586	141.3128	-461.84	-392.7599	1514.025	SLD 3	10.714	Si
3.66	0.007175	2	0	2,4	-33.2643	128.2339	-459.1	-398.103	1534.6893	SLD 3	11.968	Si
3.97	0.007175	2	0	2,4	-29.87	115.1551	-456.36	-402.0736	1550.0788	SLD 3	13.461	Si
4.27	0.007175	2	0	2,4	-26.4757	102.0762	-453.61	-402.3872	1551.3923	SLD 4	15.198	Si
4.58	0.007175	2	0	2,4	-23.0814	88.9974	-450.87	-393.4179	1516.9431	SLD 4	17.045	Si
4.88	0.007175	2	0	2,4	-19.6871	75.9186	-448.13	-379.2912	1462.6436	SLD 4	19.266	Si
5.19	0.007175	2	0	2,4	-16.2929	62.8397	-445.38	-357.4312	1378.5729	SLD 4	21.938	Si
5.49	0.006268	2	0	2,4	-12.8986	49.7609	-442.64	-314.2965	1212.5104	SLD 4	24.367	Si
5.8	0.004832	2	0	2,4	-9.5044	36.6821	-439.9	-253.5023	978.3919	SLD 4	26.672	Si
6.1	0.003396	2	0	2,4	-6.1659	23.8178	-437.2	-179.8619	694.7779	SLD 4	29.171	Si

1.1.15.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	1.211	1730	1.279	0.352	1.241	SLV 1	Si
0	1.266	1961	1.347	0.368	1.298	SLV 1	Si
0.31	1.324	1961	1.347	0.368	1.298	SLV 1	Si
0.61	1.391	1961	1.347	0.368	1.298	SLV 1	Si
0.92	1.463	1961	1.347	0.368	1.298	SLV 3	Si
1.22	1.543	1961	1.347	0.368	1.298	SLV 3	Si
1.53	1.635	1961	1.347	0.368	1.298	SLV 3	Si
1.83	1.736	1961	1.347	0.368	1.298	SLV 3	Si
2.14	1.852	1961	1.347	0.368	1.298	SLV 3	Si
2.44	1.984	1961	1.347	0.368	1.298	SLV 3	Si
2.75	2.14	1961	1.347	0.368	1.298	SLV 3	Si
3.05	2.318	1961	1.347	0.368	1.298	SLV 3	Si
3.36	2.532	1961	1.347	0.368	1.298	SLV 3	Si
3.66	2.787	1961	1.347	0.368	1.298	SLV 3	Si
3.97	3.104	1961	1.347	0.368	1.298	SLV 1	Si
4.27	3.496	1961	1.347	0.368	1.298	SLV 3	Si
4.58	4.008	1961	1.347	0.368	1.298	SLV 3	Si
4.88	4.698	1961	1.347	0.368	1.298	SLV 1	Si
5.19	5.669	1961	1.347	0.368	1.298	SLV 3	Si
5.49	6.407	1961	1.347	0.368	1.298	SLV 3	Si
5.8	7.063	1961	1.347	0.368	1.298	SLV 3	Si
6.1	8.354	1961	1.347	0.368	1.298	SLV 1	Si

1.1.15.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	3.051	1961	3.374	0.368	3.05	SLD 1	Si
0	3.186	1961	3.374	0.368	3.05	SLD 3	Si
0.31	3.338	1961	3.374	0.368	3.05	SLD 1	Si
0.61	3.502	1961	3.374	0.368	3.05	SLD 3	Si
0.92	3.684	1961	3.374	0.368	3.05	SLD 3	Si
1.22	3.889	1961	3.374	0.368	3.05	SLD 3	Si
1.53	4.117	1961	3.374	0.368	3.05	SLD 3	Si
1.83	4.377	1961	3.374	0.368	3.05	SLD 1	Si
2.14	4.671	1961	3.374	0.368	3.05	SLD 1	Si
2.44	5.006	1961	3.374	0.368	3.05	SLD 1	Si
2.75	5.389	1961	3.374	0.368	3.05	SLD 3	Si
3.05	5.84	1961	3.374	0.368	3.05	SLD 3	Si
3.36	6.38	1961	3.374	0.368	3.05	SLD 3	Si
3.66	7.029	1961	3.374	0.368	3.05	SLD 1	Si
3.97	7.822	1961	3.374	0.368	3.05	SLD 1	Si
4.27	8.822	1961	3.374	0.368	3.05	SLD 1	Si
4.58	10.111	1961	3.374	0.368	3.05	SLD 1	Si
4.88	11.84	1961	3.374	0.368	3.05	SLD 1	Si
5.19	14.301	1961	3.374	0.368	3.05	SLD 1	Si
5.49	16.137	1961	3.374	0.368	3.05	SLD 3	Si
5.8	17.802	1961	3.374	0.368	3.05	SLD 1	Si
6.1	21.041	1961	3.374	0.368	3.05	SLD 3	Si

1.1.15.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	0	-488.17	SLU 1	232.3	479.47	1482.16	2.5	1000	0	-488.17	SLU 1	232.3	479.47	1482.16	2.5	1000	Si
0	2X/2Y ø8/10	0	-485.44	SLU 1	231.92	479.47	1481.77	2.5	1000	0	-485.44	SLU 1	231.92	479.47	1481.77	2.5	1000	Si
0.31	2X/2Y ø8/10	0	-482.73	SLU 1	231.54	479.47	1481.38	2.5	1000	0	-482.73	SLU 1	231.54	479.47	1481.38	2.5	1000	Si
0.61	2X/2Y ø8/10	0	-479.99	SLU 1	231.16	479.47	1480.98	2.5	1000	0	-479.99	SLU 1	231.16	479.47	1480.98	2.5	1000	Si
0.92	2X/2Y ø8/10	0	-477.25	SLU 1	230.78	479.47	1480.58	2.5	1000	0	-477.25	SLU 1	230.78	479.47	1480.58	2.5	1000	Si
1.22	2X/2Y ø8/10	0	-474.5	SLU 1	230.39	479.47	1480.19	2.5	1000	0	-474.5	SLU 1	230.39	479.47	1480.19	2.5	1000	Si
1.53	2X/2Y ø8/10	0	-471.76	SLU 1	230.01	479.47	1479.79	2.5	1000	0	-471.76	SLU 1	230.01	479.47	1479.79	2.5	1000	Si
1.83	2X/2Y ø8/14.8	0	-469.02	SLU 1	229.63	323.65	1479.39	2.5	1000	0	-469.02	SLU 1	229.63	323.65	1479.39	2.5	1000	Si
2.14	2X/2Y ø8/14.8	0	-466.28	SLU 1	229.24	323.65	1479	2.5	1000	0	-466.28	SLU 1	229.24	323.65	1479	2.5	1000	Si
2.44	2X/2Y ø8/14.8	0	-463.53	SLU 1	228.86	323.65	1478.6	2.5	1000	0	-463.53	SLU 1	228.86	323.65	1478.6	2.5	1000	Si
2.75	2X/2Y ø8/14.8	0	-460.79	SLU 1	228.48	323.65	1478.2	2.5	1000	0	-460.79	SLU 1	228.48	323.65	1478.2	2.5	1000	Si
3.05	2X/2Y ø8/14.8	0	-458.05	SLU 1	228.09	323.65	1477.81	2.5	1000	0	-458.05	SLU 1	228.09	323.65	1477.81	2.5	1000	Si
3.36	2X/2Y ø8/14.8	0	-455.3	SLU 1	227.71	323.65	1477.41	2.5	1000	0	-455.3	SLU 1	227.71	323.65	1477.41	2.5	1000	Si
3.66	2X/2Y ø8/14.8	0	-452.56	SLU 1	227.33	323.65	1477.02	2.5	1000	0	-452.56	SLU 1	227.33	323.65	1477.02	2.5	1000	Si
3.97	2X/2Y ø8/14.8	0	-449.82	SLU 1	226.94	323.65	1476.62	2.5	1000	0	-449.82	SLU 1	226.94	323.65	1476.62	2.5	1000	Si
4.27	2X/2Y ø8/14.8	0	-447.08	SLU 1	226.56	323.65	1476.22	2.5	1000	0	-447.08	SLU 1	226.56	323.65	1476.22	2.5	1000	Si
4.58	2X/2Y ø8/14.8	0	-444.33	SLU 1	226.18	323.65	1475.83	2.5	1000	0	-444.33	SLU 1	226.18	323.65	1475.83	2.5	1000	Si
4.88	2X/2Y ø8/14.8	0	-441.59	SLU 1	225.79	323.65	1475.43	2.5	1000	0	-441.59	SLU 1	225.79	323.65	1475.43	2.5	1000	Si
5.19	2X/2Y ø8/14.8	0	-438.85	SLU 1	225.41	323.65	1475.03	2.5	1000	0	-438.85	SLU 1	225.41	323.65	1475.03	2.5	1000	Si
5.49	2X/2Y ø8/14.8	0	-436.1	SLU 1	225.03	323.65	1474.64	2.5	1000	0	-436.1	SLU 1	225.03	323.65	1474.64	2.5	1000	Si
5.8	2X/2Y ø8/10	0	-433.36	SLU 1	224.64	479.47	1474.24	2.5	1000	0	-433.36	SLU 1	224.64	479.47	1474.24	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-430.66	SLU 1	224.27	479.47	1473.85	2.5	1000	0	-430.66	SLU 1	224.27	479.47	1473.85	2.5	1000	Si

1.1.15.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-108.16	-494.71	SLV 4	233.22	479.47	1483.11	2.5	4.43	-92.12	-494.71	SLV 6	233.22	479.47	1483.11	2.5	5.21	Si
0	2X/2Y ø8/10	-108.16	-491.98	SLV 4	232.83	479.47	1482.71	2.5	4.43	-92.12	-491.98	SLV 6	232.83	479.47	1482.71	2.5	5.21	Si
0.31	2X/2Y ø8/10	-108.16	-489.27	SLV 4	232.46	479.47	1482.32	2.5	4.43	-92.12	-489.27	SLV 6	232.46	479.47	1482.32	2.5	5.21	Si
0.61	2X/2Y ø8/10	-108.16	-486.53	SLV 4	232.07	479.47	1481.93	2.5	4.43	-92.12	-486.53	SLV 6	232.07	479.47	1481.93	2.5	5.21	Si
0.92	2X/2Y ø8/10	-108.16	-483.78	SLV 4	231.69	479.47	1481.53	2.5	4.43	-92.12	-483.78	SLV 6	231.69	479.47	1481.53	2.5	5.21	Si
1.22	2X/2Y ø8/10	-108.16	-481.04	SLV 4	231.31	479.47	1481.13	2.5	4.43	-92.12	-481.04	SLV 6	231.31	479.47	1481.13	2.5	5.21	Si
1.53	2X/2Y ø8/10	-108.16	-478.3	SLV 4	230.92	479.47	1480.74	2.5	4.43	-92.12	-478.3	SLV 6	230.92	479.47	1480.74	2.5	5.21	Si
1.83	2X/2Y ø8/14.8	-108.16	-475.56	SLV 4	230.54	323.65	1480.34	2.5	2.99	-92.12	-475.56	SLV 6	230.54	323.65	1480.34	2.5	3.51	Si
2.14	2X/2Y ø8/14.8	-108.16	-472.81	SLV 4	230.16	323.65	1479.94	2.5	2.99	-92.12	-472.81	SLV 6	230.16	323.65	1479.94	2.5	3.51	Si
2.44	2X/2Y ø8/14.8	-108.16	-470.07	SLV 4	229.77	323.65	1479.55	2.5	2.99	-92.12	-470.07	SLV 6	229.77	323.65	1479.55	2.5	3.51	Si
2.75	2X/2Y ø8/14.8	-108.16	-467.33	SLV 4	229.39	323.65	1479.15	2.5	2.99	-92.12	-467.33	SLV 6	229.39	323.65	1479.15	2.5	3.51	Si
3.05	2X/2Y ø8/14.8	-108.16	-464.58	SLV 4	229.01	323.65	1478.75	2.5	2.99	-92.12	-464.58	SLV 6	229.01	323.65	1478.75	2.5	3.51	Si
3.36	2X/2Y ø8/14.8	-108.16	-461.84	SLV 4	228.62	323.65	1478.36	2.5	2.99	-92.12	-461.84	SLV 6	228.62	323.65	1478.36	2.5	3.51	Si
3.66	2X/2Y ø8/14.8	-108.16	-459.1	SLV 4	228.24	323.65	1477.96	2.5	2.99	-92.12	-459.1	SLV 6	228.24	323.65	1477.96	2.5	3.51	Si
3.97	2X/2Y ø8/14.8	-108.16	-456.36	SLV 4	227.86	323.65	1477.56	2.5	2.99	-92.12	-456.36	SLV 6	227.86	323.65	1477.56	2.5	3.51	Si
4.27	2X/2Y ø8/14.8	-108.16	-453.61	SLV 4	227.47	323.65	1477.17	2.5	2.99	-92.12	-453.61	SLV 6	227.47	323.65	1477.17	2.5	3.51	Si
4.58	2X/2Y ø8/14.8	-108.16	-450.87	SLV 4	227.09	323.65	1476.77	2.5	2.99	-92.12	-450.87	SLV 6	227.09	323.65	1476.77	2.5	3.51	Si
4.88	2X/2Y ø8/14.8	-108.16	-448.13	SLV 4	226.71	323.65	1476.37	2.5	2.99	-92.12	-448.13	SLV 6	226.71	323.65	1476.37	2.5	3.51	Si
5.19	2X/2Y ø8/14.8	-108.16	-445.38	SLV 4	226.32	323.65	1475.98	2.5	2.99	-92.12	-445.38	SLV 6	226.32	323.65	1475.98	2.5	3.51	Si
5.49	2X/2Y ø8/14.8	-108.16	-442.64	SLV 4	225.94	323.65	1475.58	2.5	2.99	-92.12	-442.64	SLV 6	225.94	323.65	1475.58	2.5	3.51	Si
5.8	2X/2Y ø8/10	-108.16	-439.9	SLV 4	225.56	479.47	1475.18	2.5	4.43	-92.12	-439.9	SLV 6	225.56	479.47	1475.18	2.5	5.21	Si
6.1	2X/2Y ø8/10	-108.16	-437.2	SLV 4	225.18	479.47	1474.79	2.5	4.43	-92.12	-437.2	SLV 6	225.18	479.47	1474.79	2.5	5.21	Si

1.1.15.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula

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[C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-1.025	6.65	X	3.813	0.176	0.6	0.0199	0.005386	0.023198	0	233.217	2150.507	479.475	191.79	287.582	479.475	-108.155	-494.71	SLV 4	Si
-0.3	-1.025	6.65	Y	3.813	0.176	0.6	0.0199	0.004184	0.023198	0	233.217	2150.507	479.475	191.79	287.582	479.475	-92.117	-494.71	SLV 6	Si

1.1.15.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-42.91	-494.71	SLD 4	233.22	479.47	1483.11	2.5	11.17	-36.57	-494.71	SLD 6	233.22	479.47	1483.11	2.5	13.11	Si
0	2X/2Y ø8/10	-42.91	-491.98	SLD 4	232.83	479.47	1482.71	2.5	11.17	-36.57	-491.98	SLD 6	232.83	479.47	1482.71	2.5	13.11	Si
0.31	2X/2Y ø8/10	-42.91	-489.27	SLD 4	232.46	479.47	1482.32	2.5	11.17	-36.57	-489.27	SLD 6	232.46	479.47	1482.32	2.5	13.11	Si
0.61	2X/2Y ø8/10	-42.91	-486.53	SLD 4	232.07	479.47	1481.93	2.5	11.17	-36.57	-486.53	SLD 6	232.07	479.47	1481.93	2.5	13.11	Si
0.92	2X/2Y ø8/10	-42.91	-483.78	SLD 4	231.69	479.47	1481.53	2.5	11.17	-36.57	-483.78	SLD 6	231.69	479.47	1481.53	2.5	13.11	Si
1.22	2X/2Y ø8/10	-42.91	-481.04	SLD 4	231.31	479.47	1481.13	2.5	11.17	-36.57	-481.04	SLD 6	231.31	479.47	1481.13	2.5	13.11	Si
1.53	2X/2Y ø8/10	-42.91	-478.3	SLD 4	230.92	479.47	1480.74	2.5	11.17	-36.57	-478.3	SLD 6	230.92	479.47	1480.74	2.5	13.11	Si
1.83	2X/2Y ø8/14.8	-42.91	-475.56	SLD 4	230.54	323.65	1480.34	2.5	7.54	-36.57	-475.56	SLD 6	230.54	323.65	1480.34	2.5	8.85	Si
2.14	2X/2Y ø8/14.8	-42.91	-472.81	SLD 4	230.16	323.65	1479.94	2.5	7.54	-36.57	-472.81	SLD 6	230.16	323.65	1479.94	2.5	8.85	Si
2.44	2X/2Y ø8/14.8	-42.91	-470.07	SLD 4	229.77	323.65	1479.55	2.5	7.54	-36.57	-470.07	SLD 6	229.77	323.65	1479.55	2.5	8.85	Si
2.75	2X/2Y ø8/14.8	-42.91	-467.33	SLD 4	229.39	323.65	1479.15	2.5	7.54	-36.57	-467.33	SLD 6	229.39	323.65	1479.15	2.5	8.85	Si
3.05	2X/2Y ø8/14.8	-42.91	-464.58	SLD 4	229.01	323.65	1478.75	2.5	7.54	-36.57	-464.58	SLD 6	229.01	323.65	1478.75	2.5	8.85	Si
3.36	2X/2Y ø8/14.8	-42.91	-461.84	SLD 4	228.62	323.65	1478.36	2.5	7.54	-36.57	-461.84	SLD 6	228.62	323.65	1478.36	2.5	8.85	Si
3.66	2X/2Y ø8/14.8	-42.91	-459.1	SLD 4	228.24	323.65	1477.96	2.5	7.54	-36.57	-459.1	SLD 6	228.24	323.65	1477.96	2.5	8.85	Si
3.97	2X/2Y ø8/14.8	-42.91	-456.36	SLD 4	227.86	323.65	1477.56	2.5	7.54	-36.57	-456.36	SLD 6	227.86	323.65	1477.56	2.5	8.85	Si
4.27	2X/2Y ø8/14.8	-42.91	-453.61	SLD 4	227.47	323.65	1477.17	2.5	7.54	-36.57	-453.61	SLD 6	227.47	323.65	1477.17	2.5	8.85	Si
4.58	2X/2Y ø8/14.8	-42.91	-450.87	SLD 4	227.09	323.65	1476.77	2.5	7.54	-36.57	-450.87	SLD 6	227.09	323.65	1476.77	2.5	8.85	Si
4.88	2X/2Y ø8/14.8	-42.91	-448.13	SLD 4	226.71	323.65	1476.37	2.5	7.54	-36.57	-448.13	SLD 6	226.71	323.65	1476.37	2.5	8.85	Si
5.19	2X/2Y ø8/14.8	-42.91	-445.38	SLD 4	226.32	323.65	1475.98	2.5	7.54	-36.57	-445.38	SLD 6	226.32	323.65	1475.98	2.5	8.85	Si
5.49	2X/2Y ø8/14.8	-42.91	-442.64	SLD 4	225.94	323.65	1475.58	2.5	7.54	-36.57	-442.64	SLD 6	225.94	323.65	1475.58	2.5	8.85	Si
5.8	2X/2Y ø8/10	-42.91	-439.9	SLD 4	225.56	479.47	1475.18	2.5	11.17	-36.57	-439.9	SLD 6	225.56	479.47	1475.18	2.5	13.11	Si
6.1	2X/2Y ø8/10	-42.91	-437.2	SLD 4	225.18	479.47	1474.79	2.5	11.17	-36.57	-437.2	SLD 6	225.18	479.47	1474.79	2.5	13.11	Si

1.1.15.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	4.432	1961	1.347	0.368	1.298	SLV 1	Si
0.31	4.432	1961	1.347	0.368	1.298	SLV 1	Si
0.61	4.432	1961	1.347	0.368	1.298	SLV 1	Si
0.92	4.432	1961	1.347	0.368	1.298	SLV 1	Si
1.22	4.432	1961	1.347	0.368	1.298	SLV 1	Si
1.53	4.432	1961	1.347	0.368	1.298	SLV 1	Si
1.83	2.992	1961	1.347	0.368	1.298	SLV 1	Si
2.14	2.992	1961	1.347	0.368	1.298	SLV 1	Si
2.44	2.992	1961	1.347	0.368	1.298	SLV 1	Si
2.75	2.992	1961	1.347	0.368	1.298	SLV 1	Si
3.05	2.992	1961	1.347	0.368	1.298	SLV 1	Si
3.36	2.992	1961	1.347	0.368	1.298	SLV 1	Si
3.66	2.992	1961	1.347	0.368	1.298	SLV 1	Si
3.97	2.992	1961	1.347	0.368	1.298	SLV 1	Si
4.27	2.992	1961	1.347	0.368	1.298	SLV 1	Si
4.58	2.992	1961	1.347	0.368	1.298	SLV 1	Si
4.88	2.992	1961	1.347	0.368	1.298	SLV 1	Si
5.19	2.992	1961	1.347	0.368	1.298	SLV 1	Si
5.49	2.992	1961	1.347	0.368	1.298	SLV 1	Si
5.8	4.432	1961	1.347	0.368	1.298	SLV 1	Si
6.1	4.432	1961	1.347	0.368	1.298	SLV 1	Si

1.1.15.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	11.166	1961	3.374	0.368	3.05	SLD 1	Si
0	11.166	1961	3.374	0.368	3.05	SLD 1	Si
0.31	11.166	1961	3.374	0.368	3.05	SLD 1	Si
0.61	11.166	1961	3.374	0.368	3.05	SLD 1	Si
0.92	11.166	1961	3.374	0.368	3.05	SLD 1	Si
1.22	11.166	1961	3.374	0.368	3.05	SLD 1	Si
1.53	11.166	1961	3.374	0.368	3.05	SLD 1	Si
1.83	7.535	1961	3.374	0.368	3.05	SLD 1	Si
2.14	7.535	1961	3.374	0.368	3.05	SLD 1	Si
2.44	7.535	1961	3.374	0.368	3.05	SLD 1	Si
2.75	7.535	1961	3.374	0.368	3.05	SLD 1	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
3.05	7.535	1961	3.374	0.368	3.05	SLD 1	Si
3.36	7.535	1961	3.374	0.368	3.05	SLD 1	Si
3.66	7.535	1961	3.374	0.368	3.05	SLD 1	Si
3.97	7.535	1961	3.374	0.368	3.05	SLD 1	Si
4.27	7.535	1961	3.374	0.368	3.05	SLD 1	Si
4.58	7.535	1961	3.374	0.368	3.05	SLD 1	Si
4.88	7.535	1961	3.374	0.368	3.05	SLD 1	Si
5.19	7.535	1961	3.374	0.368	3.05	SLD 1	Si
5.49	7.535	1961	3.374	0.368	3.05	SLD 1	Si
5.8	11.166	1961	3.374	0.368	3.05	SLD 1	Si
6.1	11.166	1961	3.374	0.368	3.05	SLD 1	Si

1.1.15.4 Verifiche nodi trave colonna

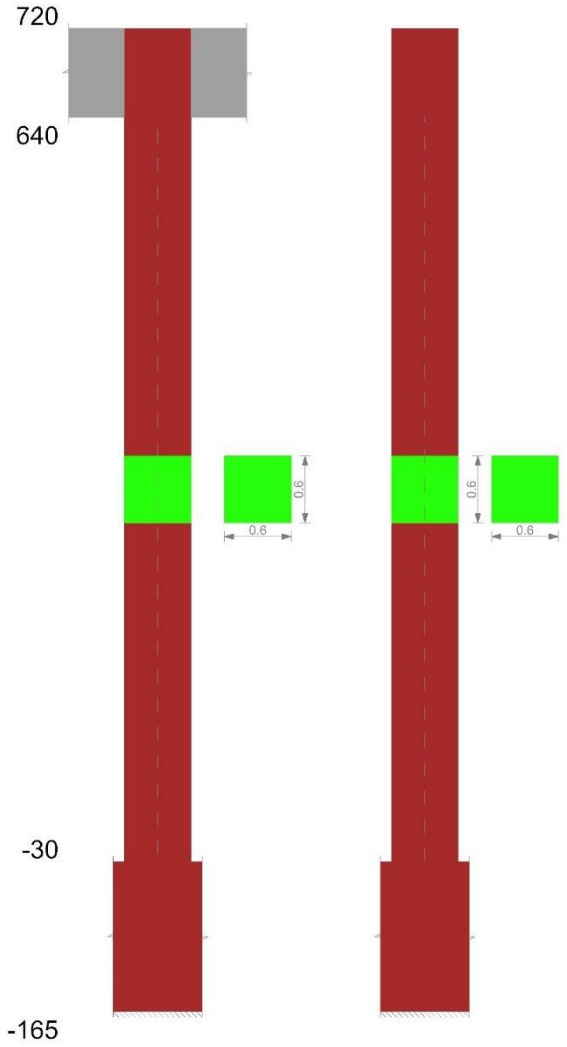
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.15.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.16 P23

Geometria



1.1.16.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.

Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.16.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.4	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.16.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.1	-0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	-0.2131	-0.2531	0.026	0.0005309	-0.299	5.7	R 60x60_1	Armature LC2
p.3	0.2131	-0.2531	0.026	0.0005309	-0.299	5.7	R 60x60_1	Armature LC2
p.3	0.2131	0.2531	0.026	0.0005309	-0.299	5.7	R 60x60_1	Armature LC2
p.3	-0.2131	0.2531	0.026	0.0005309	-0.299	5.7	R 60x60_1	Armature LC2
p.4	0	-0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0	0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.5	0	-0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.5	0	0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.4	-0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.5	-0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.5	0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2

1.1.16.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.16.3 Verifiche delle sezioni

1.1.16.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4,5	-0.0009	0	-738.25	-0.0133	0	SLU 17	14.266	Si
0	0.007175	4	0	1,2,3,4,5	-0.0009	0	-734.7	-0.0129	0	SLU 17	14.335	Si
0.31	0.007175	3.8	0	1,2,3,5	-0.0009	0	-731.19	-0.0124	0	SLU 17	14.404	Si
0.61	0.007175	3.8	0	1,2,3,5	-0.0008	0	-727.62	-0.012	0	SLU 17	14.475	Si
0.92	0.007175	3.8	0	1,2,3,5	-0.0008	0	-724.06	-0.0116	0	SLU 17	14.546	Si
1.22	0.007175	2	0	2,3,5	-0.0008	0	-720.5	-0.0111	0	SLU 17	14.618	Si
1.53	0.007175	2	0	2,3,5	-0.0007	0	-716.93	-0.0107	0	SLU 17	14.691	Si
1.83	0.007175	2	0	2,3,5	-0.0007	0	-713.37	-0.0102	0	SLU 17	14.764	Si
2.14	0.007175	2	0	2,3,5	-0.0007	0	-709.81	-0.0097	0	SLU 17	14.838	Si
2.44	0.007175	2	0	2,3,5	-0.0006	0	-706.24	-0.0093	0	SLU 17	14.913	Si
2.75	0.007175	2	0	2,3,5	-0.0006	0	-702.68	-0.0088	0	SLU 17	14.989	Si
3.05	0.007175	2	0	2,3,5	-0.0006	0	-699.12	-0.0083	0	SLU 17	15.065	Si
3.35	0.007175	2	0	2,3,5	-0.0005	0	-695.55	-0.0079	0	SLU 17	15.142	Si
3.66	0.007175	2	0	2,3,5	-0.0005	0	-691.99	-0.0074	0	SLU 17	15.22	Si
3.96	0.007175	2	0	2,3,5	-0.0005	0	-688.43	-0.0069	0	SLU 17	15.299	Si
4.27	0.007175	2	0	2,3,5	-0.0004	0	-684.87	-0.0064	0	SLU 17	15.379	Si
4.57	0.007175	2	0	2,3,5	-0.0004	0	-681.3	-0.0059	0	SLU 17	15.459	Si
4.88	0.007175	2	0	2,3,5	-0.0003	0	-677.74	-0.0054	0	SLU 17	15.54	Si
5.18	0.007175	2	0	2,3,5	-0.0003	0	-674.18	-0.0049	0	SLU 17	15.622	Si
5.49	0.007175	2	0	2,3,5	-0.0003	0	-670.61	-0.0044	0	SLU 17	15.705	Si
5.79	0.007033	2	0	2,3,5	-0.0002	0	-667.05	-0.0038	0	SLU 17	15.708	Si
6.1	0.006554	2	0	2,3,5	-0.0002	0	-663.49	-0.0033	0	SLU 17	15.519	Si
6.4	0.006594	3.2	0	2,3,5	-0.0002	0	-659.98	-0.0027	0	SLU 17	15.624	Si

1.1.16.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007175	4	0	1,2,3,4,5	-173.153	620.1557	-422.66	-262.2284	939.1836	SLV 4	1.514				Si
0	0.007175	4	0	1,2,3,4,5	-165.5759	593.0214	-419.92	-263.9857	945.4827	SLV 4	1.594				Si
0.31	0.007175	3.8	0	1,2,3,5	-158.0898	566.2132	-417.22	-265.9139	952.395	SLV 4	1.682				Si
0.61	0.007175	3.8	0	1,2,3,5	-150.4959	539.0187	-414.48	-268.0995	960.2297	SLV 4	1.781				Si
0.92	0.007175	3.8	0	1,2,3,5	-142.902	511.8243	-411.74	-270.5595	969.0486	SLV 4	1.893				Si
1.22	0.007175	2	0	2,3,5	-135.308	484.6298	-409	-273.2692	978.7624	SLV 4	2.02				Si
1.53	0.007175	2	0	2,3,5	-127.7141	457.4353	-406.26	-276.3474	989.7974	SLV 4	2.164				Si
1.83	0.007175	2	0	2,3,5	-120.1202	430.2409	-403.51	-279.899	1002.5293	SLV 4	2.33				Si
2.14	0.007175	2	0	2,3,5	-112.5262	403.0464	-400.77	-283.9491	1017.0487	SLV 4	2.523				Si
2.44	0.007175	2	0	2,3,5	-104.9323	375.8519	-398.03	-288.6707	1033.9758	SLV 4	2.751				Si
2.75	0.007175	2	0	2,3,5	-97.3384	348.6575	-395.29	-294.1598	1053.6544	SLV 4	3.022				Si
3.05	0.007175	2	0	2,3,5	-89.7444	321.463	-392.55	-300.6515	1076.9285	SLV 4	3.35				Si
3.35	0.007175	2	0	2,3,5	-82.1505	294.2685	-389.81	-308.7134	1105.8315	SLV 4	3.758				Si
3.66	0.007175	2	0	2,3,5	-74.5566	267.074	-387.07	-318.1201	1139.5591	SLV 4	4.267				Si
3.96	0.007175	2	0	2,3,5	-66.9627	239.8796	-384.33	-329.2792	1179.5731	SLV 4	4.917				Si
4.27	0.007175	2	0	2,3,5	-59.3687	212.6851	-381.59	-344.0415	1232.5091	SLV 4	5.795				Si
4.57	0.007175	2	0	2,3,5	-51.7748	185.4906	-378.85	-362.4456	1298.5133	SLV 4	7				Si
4.88	0.007175	2	0	2,3,5	-44.1809	158.2962	-376.11	-383.7982	1375.1148	SLV 4	8.687				Si
5.18	0.007175	2	0	2,3,5	-36.587	131.1017	-373.36	-404.4295	1449.1881	SLV 4	11.054				Si
5.49	0.007175	2	0	2,3,5	-28.9931	103.9072	-370.62	-422.3535	1513.6584	SLV 4	14.567				Si
5.79	0.007033	2	0	2,3,5	-21.3992	76.7128	-367.88	-421.2661	1510.1747	SLV 4	19.686				Si
6.1	0.006554	2	0	2,3,5	-13.8053	49.5183	-365.14	-369.195	1324.2647	SLV 4	26.743				Si
6.4	0.006594	3.2	0	2,3,5	-6.3395	22.7703	-362.45	-235.6854	846.5424	SLV 4	37.177				Si

1.1.16.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4,5	-68.8237	246.0636	-422.66	-338.7514	1211.1287	SLD 4	4.922	Si
0	0.007175	4	0	1,2,3,4,5	-65.812	235.2973	-419.92	-343.9062	1229.5661	SLD 4	5.226	Si
0.31	0.007175	3.8	0	1,2,3,5	-62.8365	224.6604	-417.22	-349.3367	1248.9898	SLD 4	5.559	Si
0.61	0.007175	3.8	0	1,2,3,5	-59.8181	213.8703	-414.48	-355.3533	1270.5105	SLD 4	5.941	Si
0.92	0.007175	3.8	0	1,2,3,5	-56.7997	203.0802	-411.74	-361.9772	1294.2041	SLD 4	6.373	Si
1.22	0.007175	2	0	2,3,5	-53.7813	192.29	-409	-369.4125	1320.8001	SLD 4	6.869	Si
1.53	0.007175	2	0	2,3,5	-50.7629	181.4999	-406.26	-376.929	1347.6883	SLD 4	7.425	Si
1.83	0.007175	2	0	2,3,5	-47.7445	170.7097	-403.51	-383.809	1372.3033	SLD 4	8.039	Si
2.14	0.007175	2	0	2,3,5	-44.7261	159.9196	-400.77	-391.506	1399.8422	SLD 4	8.753	Si
2.44	0.007175	2	0	2,3,5	-41.7077	149.1295	-398.03	-399.2498	1427.5516	SLD 4	9.573	Si
2.75	0.007175	2	0	2,3,5	-38.6893	138.3393	-395.29	-405.4166	1449.6268	SLD 4	10.479	Si
3.05	0.007175	2	0	2,3,5	-35.6709	127.5492	-392.55	-412.1607	1473.7711	SLD 4	11.555	Si
3.35	0.007175	2	0	2,3,5	-32.6525	116.759	-389.81	-418.9152	1497.9592	SLD 4	12.829	Si
3.66	0.007175	2	0	2,3,5	-29.6341	105.9689	-387.07	-424.7093	1518.7214	SLD 4	14.332	Si
3.96	0.007175	2	0	2,3,5	-26.6157	95.1787	-384.33	-428.393	1531.9483	SLD 4	16.095	Si
4.27	0.007175	2	0	2,3,5	-23.5973	84.3886	-381.59	-428.5186	1532.4653	SLD 4	18.16	Si
4.57	0.007175	2	0	2,3,5	-20.5789	73.5984	-378.85	-418.9737	1498.417	SLD 4	20.359	Si
4.88	0.007175	2	0	2,3,5	-17.5605	62.8083	-376.11	-404.0653	1445.2097	SLD 4	23.01	Si
5.18	0.007175	2	0	2,3,5	-14.5421	52.0182	-373.36	-381.0122	1362.9044	SLD 4	26.201	Si
5.49	0.007175	2	0	2,3,5	-11.5238	41.228	-370.62	-345.1853	1234.9538	SLD 4	29.954	Si
5.79	0.007033	2	0	2,3,5	-8.5054	30.4379	-367.88	-289.6367	1036.5122	SLD 4	34.053	Si
6.1	0.006554	2	0	2,3,5	-5.487	19.6477	-365.14	-209.9337	751.7242	SLD 4	38.26	Si
6.4	0.006594	3.2	0	2,3,5	8.2695	-2.7103	-362.45	329.3129	-107.9316	SLD 10	39.823	Si

1.1.16.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	1.438	1961	1.347	0.368	1.298	SLV 1	Si
0	1.502	1961	1.347	0.368	1.298	SLV 3	Si
0.31	1.572	1961	1.347	0.368	1.298	SLV 3	Si
0.61	1.65	1961	1.347	0.368	1.298	SLV 3	Si
0.92	1.738	1961	1.347	0.368	1.298	SLV 1	Si
1.22	1.832	1961	1.347	0.368	1.298	SLV 3	Si
1.53	1.941	1961	1.347	0.368	1.298	SLV 1	Si
1.83	2.061	1961	1.347	0.368	1.298	SLV 3	Si
2.14	2.201	1961	1.347	0.368	1.298	SLV 1	Si
2.44	2.356	1961	1.347	0.368	1.298	SLV 3	Si
2.75	2.541	1961	1.347	0.368	1.298	SLV 1	Si
3.05	2.752	1961	1.347	0.368	1.298	SLV 1	Si
3.35	3.004	1961	1.347	0.368	1.298	SLV 1	Si
3.66	3.309	1961	1.347	0.368	1.298	SLV 1	Si
3.96	3.684	1961	1.347	0.368	1.298	SLV 1	Si
4.27	4.145	1961	1.347	0.368	1.298	SLV 3	Si
4.57	4.753	1961	1.347	0.368	1.298	SLV 3	Si
4.88	5.566	1961	1.347	0.368	1.298	SLV 1	Si
5.18	6.715	1961	1.347	0.368	1.298	SLV 1	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
5.49	8.471	1961	1.347	0.368	1.298	SLV 1	Si
5.79	11.283	1961	1.347	0.368	1.298	SLV 1	Si
6.1	16.53	1961	1.347	0.368	1.298	SLV 1	Si
6.4	36.13	1961	1.347	0.368	1.298	SLV 3	Si

1.1.16.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	3.625	1961	3.374	0.368	3.05	SLD 1	Si
0	3.783	1961	3.374	0.368	3.05	SLD 3	Si
0.31	3.965	1961	3.374	0.368	3.05	SLD 1	Si
0.61	4.158	1961	3.374	0.368	3.05	SLD 3	Si
0.92	4.377	1961	3.374	0.368	3.05	SLD 1	Si
1.22	4.623	1961	3.374	0.368	3.05	SLD 1	Si
1.53	4.89	1961	3.374	0.368	3.05	SLD 3	Si
1.83	5.197	1961	3.374	0.368	3.05	SLD 1	Si
2.14	5.539	1961	3.374	0.368	3.05	SLD 3	Si
2.44	5.936	1961	3.374	0.368	3.05	SLD 3	Si
2.75	6.4	1961	3.374	0.368	3.05	SLD 1	Si
3.05	6.934	1961	3.374	0.368	3.05	SLD 3	Si
3.35	7.576	1961	3.374	0.368	3.05	SLD 1	Si
3.66	8.339	1961	3.374	0.368	3.05	SLD 1	Si
3.96	9.276	1961	3.374	0.368	3.05	SLD 3	Si
4.27	10.463	1961	3.374	0.368	3.05	SLD 1	Si
4.57	11.986	1961	3.374	0.368	3.05	SLD 1	Si
4.88	14.037	1961	3.374	0.368	3.05	SLD 1	Si
5.18	16.924	1961	3.374	0.368	3.05	SLD 1	Si
5.49	21.344	1961	3.374	0.368	3.05	SLD 1	Si
5.79	28.428	1961	3.374	0.368	3.05	SLD 3	Si
6.1	41.667	1961	3.374	0.368	3.05	SLD 1	Si
6.4	91.041	1961	3.374	0.368	3.05	SLD 3	Si

1.1.16.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	0	-394.56	SLU 1	219.22	479.47	1468.63	2.5	1000	0	-394.56	SLU 1	219.22	479.47	1468.63	2.5	1000	Si
0	2X/2Y ø8/10	0	-391.82	SLU 1	218.84	479.47	1468.23	2.5	1000	0	-391.82	SLU 1	218.84	479.47	1468.23	2.5	1000	Si
0.31	2X/2Y ø8/14.7	0	-389.12	SLU 1	218.46	325.52	1467.84	2.5	1000	0	-389.12	SLU 1	218.46	325.52	1467.84	2.5	1000	Si
0.61	2X/2Y ø8/14.7	0	-386.38	SLU 1	218.08	325.52	1467.45	2.5	1000	0	-386.38	SLU 1	218.08	325.52	1467.45	2.5	1000	Si
0.92	2X/2Y ø8/14.7	0	-383.64	SLU 1	217.69	325.52	1467.05	2.5	1000	0	-383.64	SLU 1	217.69	325.52	1467.05	2.5	1000	Si
1.22	2X/2Y ø8/14.7	0	-380.9	SLU 1	217.31	325.52	1466.66	2.5	1000	0	-380.9	SLU 1	217.31	325.52	1466.66	2.5	1000	Si
1.53	2X/2Y ø8/14.7	0	-378.16	SLU 1	216.93	325.52	1466.26	2.5	1000	0	-378.16	SLU 1	216.93	325.52	1466.26	2.5	1000	Si
1.83	2X/2Y ø8/14.7	0	-375.42	SLU 1	216.55	325.52	1465.86	2.5	1000	0	-375.42	SLU 1	216.55	325.52	1465.86	2.5	1000	Si
2.14	2X/2Y ø8/14.7	0	-372.68	SLU 1	216.16	325.52	1465.47	2.5	1000	0	-372.68	SLU 1	216.16	325.52	1465.47	2.5	1000	Si
2.44	2X/2Y ø8/14.7	0	-369.94	SLU 1	215.78	325.52	1465.07	2.5	1000	0	-369.94	SLU 1	215.78	325.52	1465.07	2.5	1000	Si
2.75	2X/2Y ø8/14.7	0	-367.2	SLU 1	215.4	325.52	1464.67	2.5	1000	0	-367.2	SLU 1	215.4	325.52	1464.67	2.5	1000	Si
3.05	2X/2Y ø8/14.7	0	-364.45	SLU 1	215.01	325.52	1464.28	2.5	1000	0	-364.45	SLU 1	215.01	325.52	1464.28	2.5	1000	Si
3.35	2X/2Y ø8/14.7	0	-361.71	SLU 1	214.63	325.52	1463.88	2.5	1000	0	-361.71	SLU 1	214.63	325.52	1463.88	2.5	1000	Si
3.66	2X/2Y ø8/14.7	0	-358.97	SLU 1	214.25	325.52	1463.49	2.5	1000	0	-358.97	SLU 1	214.25	325.52	1463.49	2.5	1000	Si
3.96	2X/2Y ø8/14.7	0	-356.23	SLU 1	213.86	325.52	1463.09	2.5	1000	0	-356.23	SLU 1	213.86	325.52	1463.09	2.5	1000	Si
4.27	2X/2Y ø8/14.7	0	-353.49	SLU 1	213.48	325.52	1462.69	2.5	1000	0	-353.49	SLU 1	213.48	325.52	1462.69	2.5	1000	Si
4.57	2X/2Y ø8/14.7	0	-350.75	SLU 1	213.1	325.52	1462.3	2.5	1000	0	-350.75	SLU 1	213.1	325.52	1462.3	2.5	1000	Si
4.88	2X/2Y ø8/14.7	0	-348.01	SLU 1	212.72	325.52	1461.9	2.5	1000	0	-348.01	SLU 1	212.72	325.52	1461.9	2.5	1000	Si
5.18	2X/2Y ø8/14.7	0	-345.27	SLU 1	212.33	325.52	1461.5	2.5	1000	0	-345.27	SLU 1	212.33	325.52	1461.5	2.5	1000	Si
5.49	2X/2Y ø8/14.7	0	-342.53	SLU 1	211.95	325.52	1461.11	2.5	1000	0	-342.53	SLU 1	211.95	325.52	1461.11	2.5	1000	Si
5.79	2X/2Y ø8/10	0	-339.79	SLU 1	211.57	479.47	1460.71	2.5	1000	0	-339.79	SLU 1	211.57	479.47	1460.71	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-337.05	SLU 1	211.18	479.47	1460.32	2.5	1000	0	-337.05	SLU 1	211.18	479.47	1460.32	2.5	1000	Si
6.4	2X/2Y ø8/10	0	-334.35	SLU 1	210.81	479.47	1459.93	2.5	1000	0	-334.35	SLU 1	210.81	479.47	1459.93	2.5	1000	Si

1.1.16.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	89.3	-422.66	SLV 15	223.15	479.47	1472.69	2.5	5.37	81.88	-422.66	SLV 8	223.15	479.47	1472.69	2.5	5.86	Si
0	2X/2Y ø8/10	89.3	-419.92	SLV 15	222.76	479.47	1472.3	2.5	5.37	81.88	-419.92	SLV 8	222.76	479.47	1472.3	2.5	5.86	Si
0.31	2X/2Y ø8/14.7	89.3	-417.22	SLV 15	222.39	325.52	1471.91	2.5	3.65	81.88	-417.22	SLV 8	222.39	325.52	1471.91	2.5	3.98	Si
0.61	2X/2Y ø8/14.7	89.3	-414.48	SLV 15	222	325.52	1471.51	2.5	3.65	81.88	-414.48	SLV 8	222	325.52	1471.51	2.5	3.98	Si
0.92	2X/2Y ø8/14.7	89.3	-411.74	SLV 15	221.62	325.52	1471.11	2.5	3.65	81.88	-411.74	SLV 8	221.62	325.52	1471.11	2.5	3.98	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
1.22	2X/2Y ø8/14.7	89.3	-409	SLV 15	221.24	325.52	1470.72	2.5	3.65	81.88	-409	SLV 8	221.24	325.52	1470.72	2.5	3.98	Si
1.53	2X/2Y ø8/14.7	89.3	-406.26	SLV 15	220.86	325.52	1470.32	2.5	3.65	81.88	-406.26	SLV 8	220.86	325.52	1470.32	2.5	3.98	Si
1.83	2X/2Y ø8/14.7	89.3	-403.51	SLV 15	220.47	325.52	1469.92	2.5	3.65	81.88	-403.51	SLV 8	220.47	325.52	1469.92	2.5	3.98	Si
2.14	2X/2Y ø8/14.7	89.3	-400.77	SLV 15	220.09	325.52	1469.53	2.5	3.65	81.88	-400.77	SLV 8	220.09	325.52	1469.53	2.5	3.98	Si
2.44	2X/2Y ø8/14.7	89.3	-398.03	SLV 15	219.71	325.52	1469.13	2.5	3.65	81.88	-398.03	SLV 8	219.71	325.52	1469.13	2.5	3.98	Si
2.75	2X/2Y ø8/14.7	89.3	-395.29	SLV 15	219.32	325.52	1468.74	2.5	3.65	81.88	-395.29	SLV 8	219.32	325.52	1468.74	2.5	3.98	Si
3.05	2X/2Y ø8/14.7	89.3	-392.55	SLV 15	218.94	325.52	1468.34	2.5	3.65	81.88	-392.55	SLV 8	218.94	325.52	1468.34	2.5	3.98	Si
3.35	2X/2Y ø8/14.7	89.3	-389.81	SLV 15	218.56	325.52	1467.94	2.5	3.65	81.88	-389.81	SLV 8	218.56	325.52	1467.94	2.5	3.98	Si
3.66	2X/2Y ø8/14.7	89.3	-387.07	SLV 15	218.17	325.52	1467.55	2.5	3.65	81.88	-387.07	SLV 8	218.17	325.52	1467.55	2.5	3.98	Si
3.96	2X/2Y ø8/14.7	89.3	-384.33	SLV 15	217.79	325.52	1467.15	2.5	3.65	81.88	-384.33	SLV 8	217.79	325.52	1467.15	2.5	3.98	Si
4.27	2X/2Y ø8/14.7	89.3	-381.59	SLV 15	217.41	325.52	1466.75	2.5	3.65	81.88	-381.59	SLV 8	217.41	325.52	1466.75	2.5	3.98	Si
4.57	2X/2Y ø8/14.7	89.3	-378.85	SLV 15	217.02	325.52	1466.36	2.5	3.65	81.88	-378.85	SLV 8	217.02	325.52	1466.36	2.5	3.98	Si
4.88	2X/2Y ø8/14.7	89.3	-376.11	SLV 15	216.64	325.52	1465.96	2.5	3.65	81.88	-376.11	SLV 8	216.64	325.52	1465.96	2.5	3.98	Si
5.18	2X/2Y ø8/14.7	89.3	-373.36	SLV 15	216.26	325.52	1465.57	2.5	3.65	81.88	-373.36	SLV 8	216.26	325.52	1465.57	2.5	3.98	Si
5.49	2X/2Y ø8/14.7	89.3	-370.62	SLV 15	215.88	325.52	1465.17	2.5	3.65	81.88	-370.62	SLV 8	215.88	325.52	1465.17	2.5	3.98	Si
5.79	2X/2Y ø8/10	89.3	-367.88	SLV 15	215.49	479.47	1464.77	2.5	5.37	81.88	-367.88	SLV 8	215.49	479.47	1464.77	2.5	5.86	Si
6.1	2X/2Y ø8/10	89.3	-365.14	SLV 15	215.11	479.47	1464.38	2.5	5.37	81.88	-365.14	SLV 8	215.11	479.47	1464.38	2.5	5.86	Si
6.4	2X/2Y ø8/10	89.3	-362.45	SLV 15	214.73	479.47	1463.99	2.5	5.37	81.88	-362.45	SLV 8	214.73	479.47	1463.99	2.5	5.86	Si

1.1.16.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	6.8	X	3.813	0.172	0.6	0.0199	0.004447	0.023198	0	223.147	2135.403	479.475	191.79	284.278	479.475	89.296	-422.656	SLV 16	Si
-0.3	-0.975	6.8	Y	3.813	0.172	0.6	0.0199	0.00373	0.023198	0	223.147	2135.403	479.475	191.79	284.278	479.475	81.883	-422.656	SLV 8	Si

1.1.16.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	35.43	-422.66	SLD 15	223.15	479.47	1472.69	2.5	13.53	32.51	-422.66	SLD 8	223.15	479.47	1472.69	2.5	14.75	Si
0	2X/2Y ø8/10	35.43	-419.92	SLD 15	222.76	479.47	1472.3	2.5	13.53	32.51	-419.92	SLD 8	222.76	479.47	1472.3	2.5	14.75	Si
0.31	2X/2Y ø8/14.7	35.43	-417.22	SLD 15	222.39	325.52	1471.91	2.5	9.19	32.51	-417.22	SLD 8	222.39	325.52	1471.91	2.5	10.01	Si
0.61	2X/2Y ø8/14.7	35.43	-414.48	SLD 15	222	325.52	1471.51	2.5	9.19	32.51	-414.48	SLD 8	222	325.52	1471.51	2.5	10.01	Si
0.92	2X/2Y ø8/14.7	35.43	-411.74	SLD 15	221.62	325.52	1471.11	2.5	9.19	32.51	-411.74	SLD 8	221.62	325.52	1471.11	2.5	10.01	Si
1.22	2X/2Y ø8/14.7	35.43	-409	SLD 15	221.24	325.52	1470.72	2.5	9.19	32.51	-409	SLD 8	221.24	325.52	1470.72	2.5	10.01	Si
1.53	2X/2Y ø8/14.7	35.43	-406.26	SLD 15	220.86	325.52	1470.32	2.5	9.19	32.51	-406.26	SLD 8	220.86	325.52	1470.32	2.5	10.01	Si
1.83	2X/2Y ø8/14.7	35.43	-403.51	SLD 15	220.47	325.52	1469.92	2.5	9.19	32.51	-403.51	SLD 8	220.47	325.52	1469.92	2.5	10.01	Si
2.14	2X/2Y ø8/14.7	35.43	-400.77	SLD 15	220.09	325.52	1469.53	2.5	9.19	32.51	-400.77	SLD 8	220.09	325.52	1469.53	2.5	10.01	Si
2.44	2X/2Y ø8/14.7	35.43	-398.03	SLD 15	219.71	325.52	1469.13	2.5	9.19	32.51	-398.03	SLD 8	219.71	325.52	1469.13	2.5	10.01	Si
2.75	2X/2Y ø8/14.7	35.43	-395.29	SLD 15	219.32	325.52	1468.74	2.5	9.19	32.51	-395.29	SLD 8	219.32	325.52	1468.74	2.5	10.01	Si
3.05	2X/2Y ø8/14.7	35.43	-392.55	SLD 15	218.94	325.52	1468.34	2.5	9.19	32.51	-392.55	SLD 8	218.94	325.52	1468.34	2.5	10.01	Si
3.35	2X/2Y ø8/14.7	35.43	-389.81	SLD 15	218.56	325.52	1467.94	2.5	9.19	32.51	-389.81	SLD 8	218.56	325.52	1467.94	2.5	10.01	Si
3.66	2X/2Y ø8/14.7	35.43	-387.07	SLD 15	218.17	325.52	1467.55	2.5	9.19	32.51	-387.07	SLD 8	218.17	325.52	1467.55	2.5	10.01	Si
3.96	2X/2Y ø8/14.7	35.43	-384.33	SLD 15	217.79	325.52	1467.15	2.5	9.19	32.51	-384.33	SLD 8	217.79	325.52	1467.15	2.5	10.01	Si
4.27	2X/2Y ø8/14.7	35.43	-381.59	SLD 15	217.41	325.52	1466.75	2.5	9.19	32.51	-381.59	SLD 8	217.41	325.52	1466.75	2.5	10.01	Si
4.57	2X/2Y ø8/14.7	35.43	-378.85	SLD 15	217.02	325.52	1466.36	2.5	9.19	32.51	-378.85	SLD 8	217.02	325.52	1466.36	2.5	10.01	Si
4.88	2X/2Y ø8/14.7	35.43	-376.11	SLD 15	216.64	325.52	1465.96	2.5	9.19	32.51	-376.11	SLD 8	216.64	325.52	1465.96	2.5	10.01	Si
5.18	2X/2Y ø8/14.7	35.43	-373.36	SLD 15	216.26	325.52	1465.57	2.5	9.19	32.51	-373.36	SLD 8	216.26	325.52	1465.57	2.5	10.01	Si
5.49	2X/2Y ø8/14.7	35.43	-370.62	SLD 15	215.88	325.52	1465.17	2.5	9.19	32.51	-370.62	SLD 8	215.88	325.52	1465.17	2.5	10.01	Si
5.79	2X/2Y ø8/10	35.43	-367.88	SLD 15	215.49	479.47	1464.77	2.5	13.53	32.51	-367.88	SLD 8	215.49	479.47	1464.77	2.5	14.75	Si
6.1	2X/2Y ø8/10	35.43	-365.14	SLD 15	215.11	479.47	1464.38	2.5	13.53	32.51	-365.14	SLD 8	215.11	479.47	1464.38	2.5	14.75	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
6.4	2X/2Y ø8/10	35.43	-362.45	SLD 15	214.73	479.47	1463.99	2.5	13.53	32.51	-362.45	SLD 8	214.73	479.47	1463.99	2.5	14.75	Si

1.1.16.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	5.368	1961	1.347	0.368	1.298	SLV 1	Si
0.31	3.648	1961	1.347	0.368	1.298	SLV 1	Si
0.61	3.648	1961	1.347	0.368	1.298	SLV 1	Si
0.92	3.648	1961	1.347	0.368	1.298	SLV 1	Si
1.22	3.648	1961	1.347	0.368	1.298	SLV 1	Si
1.53	3.648	1961	1.347	0.368	1.298	SLV 1	Si
1.83	3.648	1961	1.347	0.368	1.298	SLV 1	Si
2.14	3.648	1961	1.347	0.368	1.298	SLV 1	Si
2.44	3.648	1961	1.347	0.368	1.298	SLV 1	Si
2.75	3.648	1961	1.347	0.368	1.298	SLV 1	Si
3.05	3.648	1961	1.347	0.368	1.298	SLV 1	Si
3.35	3.648	1961	1.347	0.368	1.298	SLV 1	Si
3.66	3.648	1961	1.347	0.368	1.298	SLV 1	Si
3.96	3.648	1961	1.347	0.368	1.298	SLV 1	Si
4.27	3.648	1961	1.347	0.368	1.298	SLV 1	Si
4.57	3.648	1961	1.347	0.368	1.298	SLV 1	Si
4.88	3.648	1961	1.347	0.368	1.298	SLV 1	Si
5.18	3.648	1961	1.347	0.368	1.298	SLV 1	Si
5.49	3.648	1961	1.347	0.368	1.298	SLV 1	Si
5.79	5.368	1961	1.347	0.368	1.298	SLV 1	Si
6.1	5.368	1961	1.347	0.368	1.298	SLV 1	Si
6.4	5.368	1961	1.347	0.368	1.298	SLV 1	Si

1.1.16.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	13.539	1961	3.374	0.368	3.05	SLD 1	Si
0	13.539	1961	3.374	0.368	3.05	SLD 1	Si
0.31	9.188	1961	3.374	0.368	3.05	SLD 1	Si
0.61	9.188	1961	3.374	0.368	3.05	SLD 1	Si
0.92	9.188	1961	3.374	0.368	3.05	SLD 1	Si
1.22	9.188	1961	3.374	0.368	3.05	SLD 1	Si
1.53	9.188	1961	3.374	0.368	3.05	SLD 1	Si
1.83	9.188	1961	3.374	0.368	3.05	SLD 1	Si
2.14	9.188	1961	3.374	0.368	3.05	SLD 1	Si
2.44	9.188	1961	3.374	0.368	3.05	SLD 1	Si
2.75	9.188	1961	3.374	0.368	3.05	SLD 1	Si
3.05	9.188	1961	3.374	0.368	3.05	SLD 1	Si
3.35	9.188	1961	3.374	0.368	3.05	SLD 1	Si
3.66	9.188	1961	3.374	0.368	3.05	SLD 1	Si
3.96	9.188	1961	3.374	0.368	3.05	SLD 1	Si
4.27	9.188	1961	3.374	0.368	3.05	SLD 1	Si
4.57	9.188	1961	3.374	0.368	3.05	SLD 1	Si
4.88	9.188	1961	3.374	0.368	3.05	SLD 1	Si
5.18	9.188	1961	3.374	0.368	3.05	SLD 1	Si
5.49	9.188	1961	3.374	0.368	3.05	SLD 1	Si
5.79	13.539	1961	3.374	0.368	3.05	SLD 1	Si
6.1	13.539	1961	3.374	0.368	3.05	SLD 1	Si
6.4	13.539	1961	3.374	0.368	3.05	SLD 1	Si

1.1.16.4 Verifiche nodi trave colonna

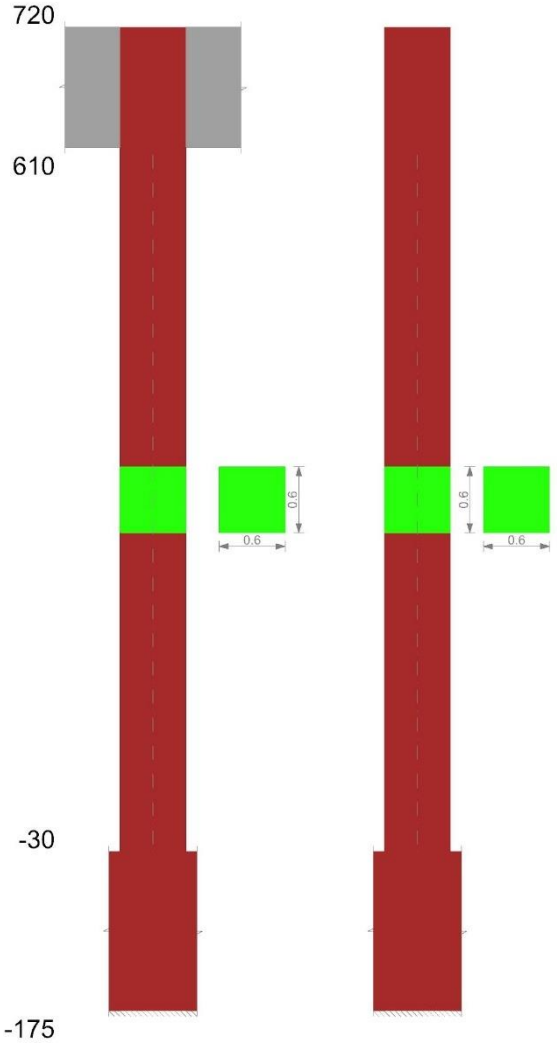
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.16.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.17 P25

Geometria



1.1.17.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.17.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.1	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.17.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.2	-0.2531	-0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2131	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	-0.2131	-0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	0.2531	-0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	0.2531	-0.2131	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	0.2131	-0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	0.2531	0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	0.2531	0.2131	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	0.2131	0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	-0.2531	0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	-0.2531	0.2131	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	-0.2131	0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.3	-0.2531	-0.2531	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	-0.2531	-0.2131	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	-0.2131	-0.2531	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	0.2531	-0.2531	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	0.2531	-0.2131	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	0.2131	-0.2531	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	0.2531	0.2531	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	0.2531	0.2131	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	0.2131	0.2531	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	-0.2531	0.2531	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	-0.2531	0.2131	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.3	-0.2131	0.2531	0.026	0.0005309	6.351	6.65	R 60x60_1	Armature LC2
p.4	0	-0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0	0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.5	0	-0.259	0.016	0.0002011	-0.299	6.35	R 60x60_1	Armature LC2
p.5	0	0.259	0.016	0.0002011	-0.299	6.35	R 60x60_1	Armature LC2
p.4	-0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.5	-0.259	0	0.016	0.0002011	-0.299	6.35	R 60x60_1	Armature LC2
p.5	0.259	0	0.016	0.0002011	-0.299	6.35	R 60x60_1	Armature LC2

1.1.17.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.17.3 Verifiche delle sezioni

1.1.17.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,4,5	0	0	-956.37	0	0	SLU 17	11.013	Si
0	0.007175	4	0	1,2,4,5	0	0	-952.82	0	0	SLU 17	11.054	Si
0.31	0.007175	3.8	0	1,2,5	0	0	-949.3	0	0	SLU 17	11.095	Si
0.61	0.007175	3.8	0	1,2,5	0	0	-945.73	0	0	SLU 17	11.137	Si
0.92	0.007175	3.8	0	1,2,5	0	0	-942.17	0	0	SLU 17	11.179	Si
1.22	0.007175	2	0	2,5	0	0	-938.6	0	0	SLU 17	11.221	Si
1.53	0.007175	2	0	2,5	0	0	-935.03	0	0	SLU 17	11.264	Si
1.83	0.007175	2	0	2,5	0	0	-931.47	0	0	SLU 17	11.307	Si
2.14	0.007175	2	0	2,5	0	0	-927.9	0	0	SLU 17	11.351	Si
2.44	0.007175	2	0	2,5	0	0	-924.34	0	0	SLU 17	11.394	Si
2.75	0.007175	2	0	2,5	0	0	-920.77	0	0	SLU 17	11.438	Si
3.05	0.007175	2	0	2,5	0	0	-917.21	0	0	SLU 17	11.483	Si
3.36	0.007175	2	0	2,5	0	0	-913.64	0	0	SLU 17	11.528	Si
3.66	0.007175	2	0	2,5	0	0	-910.07	0	0	SLU 17	11.573	Si
3.97	0.007175	2	0	2,5	0	0	-906.51	0	0	SLU 17	11.618	Si
4.27	0.007175	2	0	2,5	0	0	-902.94	0	0	SLU 17	11.664	Si
4.58	0.007175	2	0	2,5	0	0	-899.38	0	0	SLU 17	11.711	Si
4.88	0.007175	2	0	2,5	0	0	-895.81	0	0	SLU 17	11.757	Si
5.19	0.007175	2	0	2,5	0	0	-892.25	0	0	SLU 17	11.804	Si
5.49	0.007175	2	0	2,5	0	0	-888.68	0	0	SLU 17	11.852	Si
5.8	0.007175	2	0	2,5	0	0	-885.11	0	0	SLU 17	11.899	Si
6.1	0.007175	2	0	2,5	0	0	-881.61	0	0	SLU 17	11.947	Si

1.1.17.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007175	4	0	1,2,4,5	188.5563	-750.8775	-487.08	234.6789	-934.5492	SLV 14	1.245				Si
0	0.007175	4	0	1,2,4,5	180.309	-718.0236	-484.34	236.2591	-940.8272	SLV 14	1.31				Si
0.31	0.007175	3.8	0	1,2,5	172.1491	-685.5177	-481.64	237.9932	-947.7166	SLV 14	1.382				Si
0.61	0.007175	3.8	0	1,2,5	163.8777	-652.5676	-478.89	239.9575	-955.5208	SLV 14	1.464				Si
0.92	0.007175	3.8	0	1,2,5	155.6062	-619.6174	-476.15	242.1688	-964.306	SLV 14	1.556				Si
1.22	0.007175	2	0	2,5	147.3348	-586.6673	-473.41	244.6768	-974.2698	SLV 14	1.661				Si
1.53	0.007175	2	0	2,5	139.0634	-553.7171	-470.67	247.4672	-985.3551	SLV 14	1.78				Si
1.83	0.007175	2	0	2,5	130.7919	-520.7669	-467.92	250.6853	-998.1398	SLV 14	1.917				Si
2.14	0.007175	2	0	2,5	122.5205	-487.8168	-465.18	254.4395	-1013.0535	SLV 14	2.077				Si
2.44	0.007175	2	0	2,5	114.2491	-454.8666	-462.44	258.6829	-1029.9096	SLV 14	2.264				Si
2.75	0.007175	2	0	2,5	105.9777	-421.9165	-459.69	263.7656	-1050.0993	SLV 14	2.489				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.05	0.007175	2	0	2,5	97.7062	-388.9663	-456.95	269.4335	-1072.6089	SLV 14	2.758				Si
3.36	0.007175	2	0	2,5	89.4348	-356.0162	-454.21	276.4167	-1100.3414	SLV 14	3.091				Si
3.66	0.007175	2	0	2,5	81.1634	-323.066	-451.47	285.0556	-1134.6469	SLV 14	3.512				Si
3.97	0.007175	2	0	2,5	72.892	-290.1158	-448.72	295.5708	-1176.3955	SLV 14	4.055				Si
4.27	0.007175	2	0	2,5	64.6206	-257.1657	-445.98	308.9125	-1229.3563	SLV 14	4.78				Si
4.58	0.007175	2	0	2,5	56.3491	-224.2155	-443.24	326.2873	-1298.3103	SLV 14	5.79				Si
4.88	0.007175	2	0	2,5	48.0778	-191.2654	-440.49	347.4518	-1382.2507	SLV 14	7.227				Si
5.19	0.007175	2	0	2,5	39.8064	-158.3152	-437.75	369.0126	-1467.6116	SLV 14	9.27				Si
5.49	0.007175	2	0	2,5	31.535	-125.365	-435.01	386.2706	-1535.5882	SLV 14	12.249				Si
5.8	0.007175	2	0	2,5	23.2638	-92.4149	-432.27	388.944	-1545.0731	SLV 14	16.719				Si
6.1	0.007175	2	0	2,5	15.1284	-60.0053	-429.57	347.1367	-1376.8846	SLV 14	22.946				Si

1.1.17.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,4,5	74.8999	-297.9404	-487.08	301.9176	-1200.9827	SLD 14	4.031	Si
0	0.007175	4	0	1,2,4,5	71.6238	-284.9043	-484.34	306.5852	-1219.5312	SLD 14	4.28	Si
0.31	0.007175	3.8	0	1,2,5	68.3824	-272.0063	-481.64	311.7085	-1239.8896	SLD 14	4.558	Si
0.61	0.007175	3.8	0	1,2,5	65.0968	-258.932	-478.89	317.4209	-1262.5887	SLD 14	4.876	Si
0.92	0.007175	3.8	0	1,2,5	61.8111	-245.8577	-476.15	323.5758	-1287.0444	SLD 14	5.235	Si
1.22	0.007175	2	0	2,5	58.5254	-232.7835	-473.41	330.1213	-1313.0493	SLD 14	5.641	Si
1.53	0.007175	2	0	2,5	55.2398	-219.7092	-470.67	337.5752	-1342.6629	SLD 14	6.111	Si
1.83	0.007175	2	0	2,5	51.9541	-206.6349	-467.92	345.4158	-1373.8081	SLD 14	6.648	Si
2.14	0.007175	2	0	2,5	48.6684	-193.5606	-465.18	352.9749	-1403.8266	SLD 14	7.253	Si
2.44	0.007175	2	0	2,5	45.3828	-180.4863	-462.44	361.1377	-1436.2374	SLD 14	7.958	Si
2.75	0.007175	2	0	2,5	42.0971	-167.4121	-459.69	368.4981	-1465.4461	SLD 14	8.754	Si
3.05	0.007175	2	0	2,5	38.8114	-154.3378	-456.95	374.6439	-1489.8113	SLD 14	9.653	Si
3.36	0.007175	2	0	2,5	35.5258	-141.2635	-454.21	381.9335	-1518.7078	SLD 14	10.751	Si
3.66	0.007175	2	0	2,5	32.2401	-128.1892	-451.47	387.0796	-1539.0593	SLD 14	12.006	Si
3.97	0.007175	2	0	2,5	28.9544	-115.1149	-448.72	391.6356	-1557.0359	SLD 14	13.526	Si
4.27	0.007175	2	0	2,5	25.6688	-102.0407	-445.98	392.3666	-1559.7681	SLD 14	15.286	Si
4.58	0.007175	2	0	2,5	22.3831	-88.9664	-443.24	384.2386	-1527.2358	SLD 14	17.166	Si
4.88	0.007175	2	0	2,5	19.0975	-75.8921	-440.49	370.8789	-1473.8479	SLD 14	19.42	Si
5.19	0.007175	2	0	2,5	15.8118	-62.8178	-437.75	350.0364	-1390.6372	SLD 14	22.138	Si
5.49	0.007175	2	0	2,5	12.5262	-49.7435	-435.01	317.3181	-1260.1203	SLD 14	25.332	Si
5.8	0.007175	2	0	2,5	9.2406	-36.6693	-432.27	267.2835	-1060.6545	SLD 14	28.925	Si
6.1	0.007175	2	0	2,5	6.009	-23.8095	-429.57	197.4737	-782.4528	SLD 14	32.863	Si

1.1.17.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	1.209	1721	1.276	0.351	1.238	SLV 1	Si
0	1.264	1961	1.347	0.368	1.298	SLV 1	Si
0.31	1.322	1961	1.347	0.368	1.298	SLV 3	Si
0.61	1.389	1961	1.347	0.368	1.298	SLV 1	Si
0.92	1.461	1961	1.347	0.368	1.298	SLV 1	Si
1.22	1.543	1961	1.347	0.368	1.298	SLV 1	Si
1.53	1.633	1961	1.347	0.368	1.298	SLV 1	Si
1.83	1.734	1961	1.347	0.368	1.298	SLV 3	Si
2.14	1.852	1961	1.347	0.368	1.298	SLV 1	Si
2.44	1.984	1961	1.347	0.368	1.298	SLV 1	Si
2.75	2.137	1961	1.347	0.368	1.298	SLV 3	Si
3.05	2.318	1961	1.347	0.368	1.298	SLV 1	Si
3.36	2.529	1961	1.347	0.368	1.298	SLV 1	Si
3.66	2.787	1961	1.347	0.368	1.298	SLV 1	Si
3.97	3.098	1961	1.347	0.368	1.298	SLV 3	Si
4.27	3.496	1961	1.347	0.368	1.298	SLV 1	Si
4.58	4.008	1961	1.347	0.368	1.298	SLV 1	Si
4.88	4.691	1961	1.347	0.368	1.298	SLV 1	Si
5.19	5.662	1961	1.347	0.368	1.298	SLV 3	Si
5.49	7.152	1961	1.347	0.368	1.298	SLV 1	Si
5.8	9.687	1961	1.347	0.368	1.298	SLV 3	Si
6.1	14.916	1961	1.347	0.368	1.298	SLV 1	Si

1.1.17.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	3.045	1961	3.374	0.368	3.05	SLD 3	Si
0	3.186	1961	3.374	0.368	3.05	SLD 1	Si
0.31	3.332	1961	3.374	0.368	3.05	SLD 3	Si
0.61	3.502	1961	3.374	0.368	3.05	SLD 1	Si
0.92	3.684	1961	3.374	0.368	3.05	SLD 1	Si
1.22	3.889	1961	3.374	0.368	3.05	SLD 1	Si
1.53	4.117	1961	3.374	0.368	3.05	SLD 1	Si
1.83	4.377	1961	3.374	0.368	3.05	SLD 1	Si
2.14	4.664	1961	3.374	0.368	3.05	SLD 1	Si
2.44	4.999	1961	3.374	0.368	3.05	SLD 3	Si
2.75	5.389	1961	3.374	0.368	3.05	SLD 1	Si
3.05	5.84	1961	3.374	0.368	3.05	SLD 1	Si
3.36	6.373	1961	3.374	0.368	3.05	SLD 3	Si
3.66	7.016	1961	3.374	0.368	3.05	SLD 3	Si
3.97	7.809	1961	3.374	0.368	3.05	SLD 3	Si
4.27	8.808	1961	3.374	0.368	3.05	SLD 1	Si
4.58	10.097	1961	3.374	0.368	3.05	SLD 1	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
4.88	11.825	1961	3.374	0.368	3.05	SLD 3	Si
5.19	14.271	1961	3.374	0.368	3.05	SLD 3	Si
5.49	18.014	1961	3.374	0.368	3.05	SLD 1	Si
5.8	24.432	1961	3.374	0.368	3.05	SLD 1	Si
6.1	37.606	1961	3.374	0.368	3.05	SLD 1	Si

1.1.17.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	0	-480.58	SLU 1	231.24	479.47	1481.07	2.5	1000	0	-480.58	SLU 1	231.24	479.47	1481.07	2.5	1000	Si
0	2X/2Y ø8/10	0	-477.85	SLU 1	230.86	479.47	1480.67	2.5	1000	0	-477.85	SLU 1	230.86	479.47	1480.67	2.5	1000	Si
0.31	2X/2Y ø8/14.8	0	-475.14	SLU 1	230.48	322.91	1480.28	2.5	1000	0	-475.14	SLU 1	230.48	322.91	1480.28	2.5	1000	Si
0.61	2X/2Y ø8/14.8	0	-472.4	SLU 1	230.1	322.91	1479.88	2.5	1000	0	-472.4	SLU 1	230.1	322.91	1479.88	2.5	1000	Si
0.92	2X/2Y ø8/14.8	0	-469.66	SLU 1	229.72	322.91	1479.49	2.5	1000	0	-469.66	SLU 1	229.72	322.91	1479.49	2.5	1000	Si
1.22	2X/2Y ø8/14.8	0	-466.91	SLU 1	229.33	322.91	1479.09	2.5	1000	0	-466.91	SLU 1	229.33	322.91	1479.09	2.5	1000	Si
1.53	2X/2Y ø8/14.8	0	-464.17	SLU 1	228.95	322.91	1478.69	2.5	1000	0	-464.17	SLU 1	228.95	322.91	1478.69	2.5	1000	Si
1.83	2X/2Y ø8/14.8	0	-461.43	SLU 1	228.57	322.91	1478.3	2.5	1000	0	-461.43	SLU 1	228.57	322.91	1478.3	2.5	1000	Si
2.14	2X/2Y ø8/14.8	0	-458.68	SLU 1	228.18	322.91	1477.9	2.5	1000	0	-458.68	SLU 1	228.18	322.91	1477.9	2.5	1000	Si
2.44	2X/2Y ø8/14.8	0	-455.94	SLU 1	227.8	322.91	1477.5	2.5	1000	0	-455.94	SLU 1	227.8	322.91	1477.5	2.5	1000	Si
2.75	2X/2Y ø8/14.8	0	-453.2	SLU 1	227.42	322.91	1477.11	2.5	1000	0	-453.2	SLU 1	227.42	322.91	1477.11	2.5	1000	Si
3.05	2X/2Y ø8/14.8	0	-450.46	SLU 1	227.03	322.91	1476.71	2.5	1000	0	-450.46	SLU 1	227.03	322.91	1476.71	2.5	1000	Si
3.36	2X/2Y ø8/14.8	0	-447.71	SLU 1	226.65	322.91	1476.31	2.5	1000	0	-447.71	SLU 1	226.65	322.91	1476.31	2.5	1000	Si
3.66	2X/2Y ø8/14.8	0	-444.97	SLU 1	226.27	322.91	1475.92	2.5	1000	0	-444.97	SLU 1	226.27	322.91	1475.92	2.5	1000	Si
3.97	2X/2Y ø8/14.8	0	-442.23	SLU 1	225.88	322.91	1475.52	2.5	1000	0	-442.23	SLU 1	225.88	322.91	1475.52	2.5	1000	Si
4.27	2X/2Y ø8/14.8	0	-439.48	SLU 1	225.5	322.91	1475.12	2.5	1000	0	-439.48	SLU 1	225.5	322.91	1475.12	2.5	1000	Si
4.58	2X/2Y ø8/14.8	0	-436.74	SLU 1	225.12	322.91	1474.73	2.5	1000	0	-436.74	SLU 1	225.12	322.91	1474.73	2.5	1000	Si
4.88	2X/2Y ø8/14.8	0	-434	SLU 1	224.73	322.91	1474.33	2.5	1000	0	-434	SLU 1	224.73	322.91	1474.33	2.5	1000	Si
5.19	2X/2Y ø8/10	0	-431.26	SLU 1	224.35	479.47	1473.93	2.5	1000	0	-431.26	SLU 1	224.35	479.47	1473.93	2.5	1000	Si
5.49	2X/2Y ø8/10	0	-428.51	SLU 1	223.97	479.47	1473.54	2.5	1000	0	-428.51	SLU 1	223.97	479.47	1473.54	2.5	1000	Si
5.8	2X/2Y ø8/10	0	-425.77	SLU 1	223.58	479.47	1473.14	2.5	1000	0	-425.77	SLU 1	223.58	479.47	1473.14	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-423.07	SLU 1	223.21	479.47	1472.75	2.5	1000	0	-423.07	SLU 1	223.21	479.47	1472.75	2.5	1000	Si

1.1.17.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-108.12	-487.08	SLV 2	232.15	479.47	1482.01	2.5	4.43	-89.51	-487.08	SLV 10	232.15	479.47	1482.01	2.5	5.36	Si
0	2X/2Y ø8/10	-108.12	-484.34	SLV 2	231.77	479.47	1481.61	2.5	4.43	-89.51	-484.34	SLV 10	231.77	479.47	1481.61	2.5	5.36	Si
0.31	2X/2Y ø8/14.8	-108.12	-481.64	SLV 2	231.39	322.91	1481.22	2.5	2.99	-89.51	-481.64	SLV 10	231.39	322.91	1481.22	2.5	3.61	Si
0.61	2X/2Y ø8/14.8	-108.12	-478.89	SLV 2	231.01	322.91	1480.82	2.5	2.99	-89.51	-478.89	SLV 10	231.01	322.91	1480.82	2.5	3.61	Si
0.92	2X/2Y ø8/14.8	-108.12	-476.15	SLV 2	230.62	322.91	1480.43	2.5	2.99	-89.51	-476.15	SLV 10	230.62	322.91	1480.43	2.5	3.61	Si
1.22	2X/2Y ø8/14.8	-108.12	-473.41	SLV 2	230.24	322.91	1480.03	2.5	2.99	-89.51	-473.41	SLV 10	230.24	322.91	1480.03	2.5	3.61	Si
1.53	2X/2Y ø8/14.8	-108.12	-470.67	SLV 2	229.86	322.91	1479.63	2.5	2.99	-89.51	-470.67	SLV 10	229.86	322.91	1479.63	2.5	3.61	Si
1.83	2X/2Y ø8/14.8	-108.12	-467.92	SLV 2	229.47	322.91	1479.24	2.5	2.99	-89.51	-467.92	SLV 10	229.47	322.91	1479.24	2.5	3.61	Si
2.14	2X/2Y ø8/14.8	-108.12	-465.18	SLV 2	229.09	322.91	1478.84	2.5	2.99	-89.51	-465.18	SLV 10	229.09	322.91	1478.84	2.5	3.61	Si
2.44	2X/2Y ø8/14.8	-108.12	-462.44	SLV 2	228.71	322.91	1478.44	2.5	2.99	-89.51	-462.44	SLV 10	228.71	322.91	1478.44	2.5	3.61	Si
2.75	2X/2Y ø8/14.8	-108.12	-459.69	SLV 2	228.32	322.91	1478.05	2.5	2.99	-89.51	-459.69	SLV 10	228.32	322.91	1478.05	2.5	3.61	Si
3.05	2X/2Y ø8/14.8	-108.12	-456.95	SLV 2	227.94	322.91	1477.65	2.5	2.99	-89.51	-456.95	SLV 10	227.94	322.91	1477.65	2.5	3.61	Si
3.36	2X/2Y ø8/14.8	-108.12	-454.21	SLV 2	227.56	322.91	1477.25	2.5	2.99	-89.51	-454.21	SLV 10	227.56	322.91	1477.25	2.5	3.61	Si
3.66	2X/2Y ø8/14.8	-108.12	-451.47	SLV 2	227.17	322.91	1476.86	2.5	2.99	-89.51	-451.47	SLV 10	227.17	322.91	1476.86	2.5	3.61	Si
3.97	2X/2Y ø8/14.8	-108.12	-448.72	SLV 2	226.79	322.91	1476.46	2.5	2.99	-89.51	-448.72	SLV 10	226.79	322.91	1476.46	2.5	3.61	Si
4.27	2X/2Y ø8/14.8	-108.12	-445.98	SLV 2	226.41	322.91	1476.06	2.5	2.99	-89.51	-445.98	SLV 10	226.41	322.91	1476.06	2.5	3.61	Si
4.58	2X/2Y ø8/14.8	-108.12	-443.24	SLV 2	226.02	322.91	1475.67	2.5	2.99	-89.51	-443.24	SLV 10	226.02	322.91	1475.67	2.5	3.61	Si
4.88	2X/2Y ø8/14.8	-108.12	-440.49	SLV 2	225.64	322.91	1475.27	2.5	2.99	-89.51	-440.49	SLV 10	225.64	322.91	1475.27	2.5	3.61	Si
5.19	2X/2Y ø8/10	-108.12	-437.75	SLV 2	225.26	479.47	1474.87	2.5	4.43	-89.51	-437.75	SLV 10	225.26	479.47	1474.87	2.5	5.36	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
5.49	2X/2Y ø8/10	-108.12	-435.01	SLV 2	224.87	479.47	1474.48	2.5	4.43	-89.51	-435.01	SLV 10	224.87	479.47	1474.48	2.5	5.36	Si
5.8	2X/2Y ø8/10	-108.12	-432.27	SLV 2	224.49	479.47	1474.08	2.5	4.43	-89.51	-432.27	SLV 10	224.49	479.47	1474.08	2.5	5.36	Si
6.1	2X/2Y ø8/10	-108.12	-429.57	SLV 2	224.11	479.47	1473.69	2.5	4.43	-89.51	-429.57	SLV 10	224.11	479.47	1473.69	2.5	5.36	Si

1.1.17.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-1.025	6.65	X	3.813	0.175	0.6	0.0199	0.005384	0.023198	0	232.15	2148.907	479.475	191.79	287.235	479.475	108.118	-487.078	SLV 15	Si
-0.3	-1.025	6.65	Y	3.813	0.175	0.6	0.0199	0.00408	0.023198	0	232.15	2148.907	479.475	191.79	287.235	479.475	-89.505	-487.078	SLV 10	Si

1.1.17.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	42.9	-487.08	SLD 15	232.15	479.47	1482.01	2.5	11.18	-35.53	-487.08	SLD 10	232.15	479.47	1482.01	2.5	13.5	Si
0	2X/2Y ø8/10	42.9	-484.34	SLD 15	231.77	479.47	1481.61	2.5	11.18	-35.53	-484.34	SLD 10	231.77	479.47	1481.61	2.5	13.5	Si
0.31	2X/2Y ø8/14.8	42.9	-481.64	SLD 15	231.39	322.91	1481.22	2.5	7.53	-35.53	-481.64	SLD 10	231.39	322.91	1481.22	2.5	9.09	Si
0.61	2X/2Y ø8/14.8	42.9	-478.89	SLD 15	231.01	322.91	1480.82	2.5	7.53	-35.53	-478.89	SLD 10	231.01	322.91	1480.82	2.5	9.09	Si
0.92	2X/2Y ø8/14.8	42.9	-476.15	SLD 15	230.62	322.91	1480.43	2.5	7.53	-35.53	-476.15	SLD 10	230.62	322.91	1480.43	2.5	9.09	Si
1.22	2X/2Y ø8/14.8	42.9	-473.41	SLD 15	230.24	322.91	1480.03	2.5	7.53	-35.53	-473.41	SLD 10	230.24	322.91	1480.03	2.5	9.09	Si
1.53	2X/2Y ø8/14.8	42.9	-470.67	SLD 15	229.86	322.91	1479.63	2.5	7.53	-35.53	-470.67	SLD 10	229.86	322.91	1479.63	2.5	9.09	Si
1.83	2X/2Y ø8/14.8	42.9	-467.92	SLD 15	229.47	322.91	1479.24	2.5	7.53	-35.53	-467.92	SLD 10	229.47	322.91	1479.24	2.5	9.09	Si
2.14	2X/2Y ø8/14.8	42.9	-465.18	SLD 15	229.09	322.91	1478.84	2.5	7.53	-35.53	-465.18	SLD 10	229.09	322.91	1478.84	2.5	9.09	Si
2.44	2X/2Y ø8/14.8	42.9	-462.44	SLD 15	228.71	322.91	1478.44	2.5	7.53	-35.53	-462.44	SLD 10	228.71	322.91	1478.44	2.5	9.09	Si
2.75	2X/2Y ø8/14.8	42.9	-459.69	SLD 15	228.32	322.91	1478.05	2.5	7.53	-35.53	-459.69	SLD 10	228.32	322.91	1478.05	2.5	9.09	Si
3.05	2X/2Y ø8/14.8	42.9	-456.95	SLD 15	227.94	322.91	1477.65	2.5	7.53	-35.53	-456.95	SLD 10	227.94	322.91	1477.65	2.5	9.09	Si
3.36	2X/2Y ø8/14.8	42.9	-454.21	SLD 15	227.56	322.91	1477.25	2.5	7.53	-35.53	-454.21	SLD 10	227.56	322.91	1477.25	2.5	9.09	Si
3.66	2X/2Y ø8/14.8	42.9	-451.47	SLD 15	227.17	322.91	1476.86	2.5	7.53	-35.53	-451.47	SLD 10	227.17	322.91	1476.86	2.5	9.09	Si
3.97	2X/2Y ø8/14.8	42.9	-448.72	SLD 15	226.79	322.91	1476.46	2.5	7.53	-35.53	-448.72	SLD 10	226.79	322.91	1476.46	2.5	9.09	Si
4.27	2X/2Y ø8/14.8	42.9	-445.98	SLD 15	226.41	322.91	1476.06	2.5	7.53	-35.53	-445.98	SLD 10	226.41	322.91	1476.06	2.5	9.09	Si
4.58	2X/2Y ø8/14.8	42.9	-443.24	SLD 15	226.02	322.91	1475.67	2.5	7.53	-35.53	-443.24	SLD 10	226.02	322.91	1475.67	2.5	9.09	Si
4.88	2X/2Y ø8/14.8	42.9	-440.49	SLD 15	225.64	322.91	1475.27	2.5	7.53	-35.53	-440.49	SLD 10	225.64	322.91	1475.27	2.5	9.09	Si
5.19	2X/2Y ø8/10	42.9	-437.75	SLD 15	225.26	479.47	1474.87	2.5	11.18	-35.53	-437.75	SLD 10	225.26	479.47	1474.87	2.5	13.5	Si
5.49	2X/2Y ø8/10	42.9	-435.01	SLD 15	224.87	479.47	1474.48	2.5	11.18	-35.53	-435.01	SLD 10	224.87	479.47	1474.48	2.5	13.5	Si
5.8	2X/2Y ø8/10	42.9	-432.27	SLD 15	224.49	479.47	1474.08	2.5	11.18	-35.53	-432.27	SLD 10	224.49	479.47	1474.08	2.5	13.5	Si
6.1	2X/2Y ø8/10	42.9	-429.57	SLD 15	224.11	479.47	1473.69	2.5	11.18	-35.53	-429.57	SLD 10	224.11	479.47	1473.69	2.5	13.5	Si

1.1.17.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	4.432	1961	1.347	0.368	1.298	SLV 1	Si
0.31	2.986	1961	1.347	0.368	1.298	SLV 1	Si
0.61	2.986	1961	1.347	0.368	1.298	SLV 1	Si
0.92	2.986	1961	1.347	0.368	1.298	SLV 1	Si
1.22	2.986	1961	1.347	0.368	1.298	SLV 1	Si
1.53	2.986	1961	1.347	0.368	1.298	SLV 1	Si
1.83	2.986	1961	1.347	0.368	1.298	SLV 1	Si
2.14	2.986	1961	1.347	0.368	1.298	SLV 1	Si
2.44	2.986	1961	1.347	0.368	1.298	SLV 1	Si
2.75	2.986	1961	1.347	0.368	1.298	SLV 1	Si
3.05	2.986	1961	1.347	0.368	1.298	SLV 1	Si
3.36	2.986	1961	1.347	0.368	1.298	SLV 1	Si
3.66	2.986	1961	1.347	0.368	1.298	SLV 1	Si
3.97	2.986	1961	1.347	0.368	1.298	SLV 1	Si
4.27	2.986	1961	1.347	0.368	1.298	SLV 1	Si
4.58	2.986	1961	1.347	0.368	1.298	SLV 1	Si
4.88	2.986	1961	1.347	0.368	1.298	SLV 1	Si
5.19	4.432	1961	1.347	0.368	1.298	SLV 1	Si
5.49	4.432	1961	1.347	0.368	1.298	SLV 1	Si
5.8	4.432	1961	1.347	0.368	1.298	SLV 1	Si
6.1	4.432	1961	1.347	0.368	1.298	SLV 1	Si

1.1.17.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	11.166	1961	3.374	0.368	3.05	SLD 1	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	11.166	1961	3.374	0.368	3.05	SLD 1	Si
0.31	7.521	1961	3.374	0.368	3.05	SLD 1	Si
0.61	7.521	1961	3.374	0.368	3.05	SLD 1	Si
0.92	7.521	1961	3.374	0.368	3.05	SLD 1	Si
1.22	7.521	1961	3.374	0.368	3.05	SLD 1	Si
1.53	7.521	1961	3.374	0.368	3.05	SLD 1	Si
1.83	7.521	1961	3.374	0.368	3.05	SLD 1	Si
2.14	7.521	1961	3.374	0.368	3.05	SLD 1	Si
2.44	7.521	1961	3.374	0.368	3.05	SLD 1	Si
2.75	7.521	1961	3.374	0.368	3.05	SLD 1	Si
3.05	7.521	1961	3.374	0.368	3.05	SLD 1	Si
3.36	7.521	1961	3.374	0.368	3.05	SLD 1	Si
3.66	7.521	1961	3.374	0.368	3.05	SLD 1	Si
3.97	7.521	1961	3.374	0.368	3.05	SLD 1	Si
4.27	7.521	1961	3.374	0.368	3.05	SLD 1	Si
4.58	7.521	1961	3.374	0.368	3.05	SLD 1	Si
4.88	7.521	1961	3.374	0.368	3.05	SLD 1	Si
5.19	11.166	1961	3.374	0.368	3.05	SLD 1	Si
5.49	11.166	1961	3.374	0.368	3.05	SLD 1	Si
5.8	11.166	1961	3.374	0.368	3.05	SLD 1	Si
6.1	11.166	1961	3.374	0.368	3.05	SLD 1	Si

1.1.17.4 Verifiche nodi trave colonna

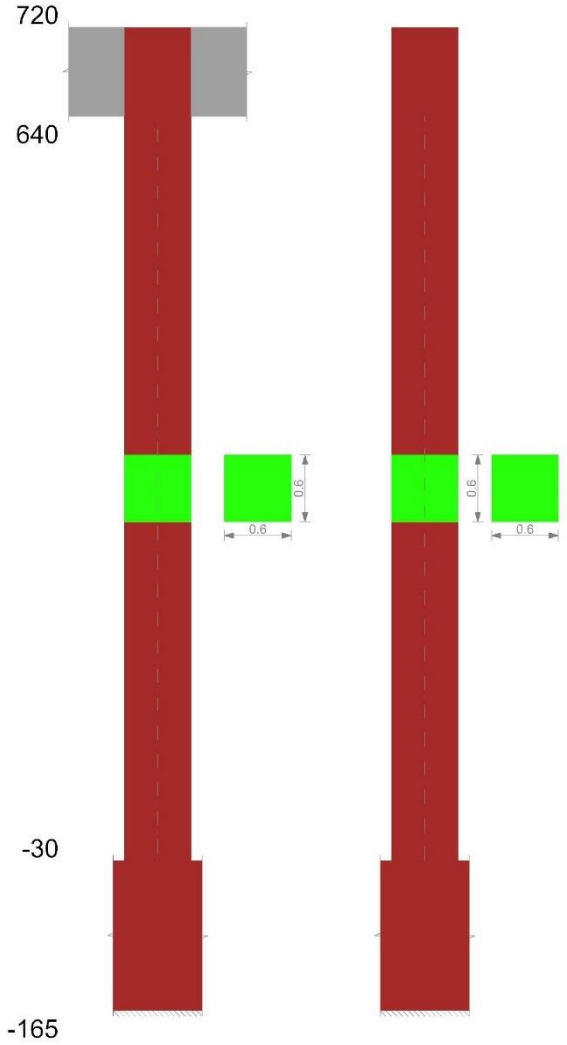
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.17.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.18 P26

Geometria



1.1.18.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.18.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.4	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.18.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.2	0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.1	-0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	-0.2131	-0.2531	0.026	0.0005309	-0.299	5.7	R 60x60_1	Armature LC2
p.3	0.2131	-0.2531	0.026	0.0005309	-0.299	5.7	R 60x60_1	Armature LC2
p.3	0.2131	0.2531	0.026	0.0005309	-0.299	5.7	R 60x60_1	Armature LC2
p.3	-0.2131	0.2531	0.026	0.0005309	-0.299	5.7	R 60x60_1	Armature LC2
p.4	0	-0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0	0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.5	0	-0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.5	0	0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.4	-0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.5	-0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.5	0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2

1.1.18.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.18.3 Verifiche delle sezioni

1.1.18.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4,5	0	0	-732.24	0	0	SLU 17	14.384	Si
0	0.007175	4	0	1,2,3,4,5	0	0	-728.69	0	0	SLU 17	14.454	Si
0.31	0.007175	3.8	0	1,2,3,5	0	0	-725.18	0	0	SLU 17	14.524	Si
0.61	0.007175	3.8	0	1,2,3,5	0	0	-721.61	0	0	SLU 17	14.595	Si
0.92	0.007175	3.8	0	1,2,3,5	0	0	-718.05	0	0	SLU 17	14.668	Si
1.22	0.007175	2	0	2,3,5	0	0	-714.49	0	0	SLU 17	14.741	Si
1.53	0.007175	2	0	2,3,5	0	0	-710.92	0	0	SLU 17	14.815	Si
1.83	0.007175	2	0	2,3,5	0	0	-707.36	0	0	SLU 17	14.889	Si
2.14	0.007175	2	0	2,3,5	0	0	-703.8	0	0	SLU 17	14.965	Si
2.44	0.007175	2	0	2,3,5	0	0	-700.23	0	0	SLU 17	15.041	Si
2.75	0.007175	2	0	2,3,5	0	0	-696.67	0	0	SLU 17	15.118	Si
3.05	0.007175	2	0	2,3,5	0	0	-693.11	0	0	SLU 17	15.196	Si
3.35	0.007175	2	0	2,3,5	0	0	-689.54	0	0	SLU 17	15.274	Si
3.66	0.007175	2	0	2,3,5	0	0	-685.98	0	0	SLU 17	15.354	Si
3.96	0.007175	2	0	2,3,5	0	0	-682.42	0	0	SLU 17	15.434	Si
4.27	0.007175	2	0	2,3,5	0	0	-678.85	0	0	SLU 17	15.515	Si
4.57	0.007175	2	0	2,3,5	0	0	-675.29	0	0	SLU 17	15.597	Si
4.88	0.007175	2	0	2,3,5	0	0	-671.73	0	0	SLU 17	15.679	Si
5.18	0.007175	2	0	2,3,5	0	0	-668.16	0	0	SLU 17	15.763	Si
5.49	0.007175	2	0	2,3,5	0	0	-664.6	0	0	SLU 17	15.847	Si
5.79	0.007033	2	0	2,3,5	0	0	-661.04	0	0	SLU 17	15.851	Si
6.1	0.006554	2	0	2,3,5	0	0	-657.48	0	0	SLU 17	15.661	Si
6.4	0.006594	3.2	0	2,3,5	0	0	-653.97	0	0	SLU 17	15.768	Si

1.1.18.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007175	4	0	1,2,3,4,5	-167.1423	619.7639	-418.81	-253.2255	938.9602	SLV 4	1.515				Si
0	0.007175	4	0	1,2,3,4,5	-159.8307	592.6468	-416.07	-254.9328	945.2819	SLV 4	1.595				Si
0.31	0.007175	3.8	0	1,2,3,5	-152.6069	565.8555	-413.37	-256.8062	952.2191	SLV 4	1.683				Si
0.61	0.007175	3.8	0	1,2,3,5	-145.279	538.6782	-410.63	-258.9299	960.0825	SLV 4	1.782				Si
0.92	0.007175	3.8	0	1,2,3,5	-137.9512	511.5009	-407.89	-261.3204	968.9341	SLV 4	1.894				Si
1.22	0.007175	2	0	2,3,5	-130.6233	484.3236	-405.15	-263.9591	978.7047	SLV 4	2.021				Si
1.53	0.007175	2	0	2,3,5	-123.2954	457.1463	-402.41	-266.9363	989.728	SLV 4	2.165				Si
1.83	0.007175	2	0	2,3,5	-115.9676	429.9691	-399.67	-270.3711	1002.4459	SLV 4	2.331				Si
2.14	0.007175	2	0	2,3,5	-108.6397	402.7918	-396.93	-274.3065	1017.0167	SLV 4	2.525				Si
2.44	0.007175	2	0	2,3,5	-101.3118	375.6145	-394.19	-278.8761	1033.9353	SLV 4	2.753				Si
2.75	0.007175	2	0	2,3,5	-93.984	348.4372	-391.45	-284.2003	1053.6472	SLV 4	3.024				Si
3.05	0.007175	2	0	2,3,5	-86.6561	321.2599	-388.7	-290.4192	1076.6701	SLV 4	3.351				Si
3.35	0.007175	2	0	2,3,5	-79.3282	294.0826	-385.96	-298.1101	1105.1423	SLV 4	3.758				Si
3.66	0.007175	2	0	2,3,5	-72.0004	266.9053	-383.22	-307.4284	1139.637	SLV 4	4.27				Si
3.96	0.007175	2	0	2,3,5	-64.6725	239.728	-380.48	-318.2774	1179.7906	SLV 4	4.921				Si
4.27	0.007175	2	0	2,3,5	-57.3446	212.5507	-377.74	-332.5	1232.4279	SLV 4	5.798				Si
4.57	0.007175	2	0	2,3,5	-50.0168	185.3734	-375	-350.4945	1299.0117	SLV 4	7.008				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
4.88	0.007175	2	0	2,3,5	-42.6889	158.1962	-372.26	-372.0244	1378.6443	SLV 4	8.715				Si
5.18	0.007175	2	0	2,3,5	-35.3611	131.0189	-369.52	-392.7656	1455.2646	SLV 4	11.107				Si
5.49	0.007175	2	0	2,3,5	-28.0332	103.8416	-366.78	-410.5083	1520.618	SLV 4	14.644				Si
5.79	0.007033	2	0	2,3,5	-20.7054	76.6643	-364.04	-410.2947	1519.1659	SLV 4	19.816				Si
6.1	0.006554	2	0	2,3,5	-13.3777	49.487	-361.3	-360.3037	1332.8457	SLV 4	26.933				Si
6.4	0.006594	3.2	0	2,3,5	-6.1724	22.7559	-358.6	-231.4454	853.2727	SLV 4	37.497				Si

1.1.18.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4,5	-66.4	245.9082	-418.81	-327.1709	1211.6566	SLD 4	4.927	Si
0	0.007175	4	0	1,2,3,4,5	-63.4953	235.1487	-416.07	-332.1574	1230.1128	SLD 4	5.231	Si
0.31	0.007175	3.8	0	1,2,3,5	-60.6255	224.5186	-413.37	-337.4995	1249.8841	SLD 4	5.567	Si
0.61	0.007175	3.8	0	1,2,3,5	-57.7144	213.7352	-410.63	-343.4038	1271.7359	SLD 4	5.95	Si
0.92	0.007175	3.8	0	1,2,3,5	-54.8033	202.9519	-407.89	-349.805	1295.4259	SLD 4	6.383	Si
1.22	0.007175	2	0	2,3,5	-51.8922	192.1686	-405.15	-356.9594	1321.9025	SLD 4	6.879	Si
1.53	0.007175	2	0	2,3,5	-48.981	181.3853	-402.41	-364.7738	1350.8205	SLD 4	7.447	Si
1.83	0.007175	2	0	2,3,5	-46.0699	170.6019	-399.67	-371.7096	1376.4813	SLD 4	8.068	Si
2.14	0.007175	2	0	2,3,5	-43.1588	159.8186	-396.93	-379.1185	1403.8899	SLD 4	8.784	Si
2.44	0.007175	2	0	2,3,5	-40.2477	149.0353	-394.19	-387.0023	1433.0521	SLD 4	9.616	Si
2.75	0.007175	2	0	2,3,5	-37.3365	138.2519	-391.45	-393.2919	1456.3046	SLD 4	10.534	Si
3.05	0.007175	2	0	2,3,5	-34.4254	127.4686	-388.7	-399.8426	1480.5165	SLD 4	11.615	Si
3.35	0.007175	2	0	2,3,5	-31.5143	116.6853	-385.96	-406.6522	1505.6768	SLD 4	12.904	Si
3.66	0.007175	2	0	2,3,5	-28.6032	105.902	-383.22	-412.2182	1526.2201	SLD 4	14.412	Si
3.96	0.007175	2	0	2,3,5	-25.692	95.1186	-380.48	-416.071	1540.4033	SLD 4	16.195	Si
4.27	0.007175	2	0	2,3,5	-22.7809	84.3353	-377.74	-416.4084	1541.5505	SLD 4	18.279	Si
4.57	0.007175	2	0	2,3,5	-19.8698	73.552	-375	-407.2795	1507.6258	SLD 4	20.497	Si
4.88	0.007175	2	0	2,3,5	-16.9587	62.7686	-372.26	-392.9533	1454.4268	SLD 4	23.171	Si
5.18	0.007175	2	0	2,3,5	-14.0475	51.9853	-369.52	-370.7525	1372.0316	SLD 4	26.393	Si
5.49	0.007175	2	0	2,3,5	-11.1364	41.202	-366.78	-336.1698	1243.7426	SLD 4	30.186	Si
5.79	0.007033	2	0	2,3,5	-8.2253	30.4186	-364.04	-282.3647	1044.232	SLD 4	34.329	Si
6.1	0.006554	2	0	2,3,5	-5.3143	19.6353	-361.3	-205.1291	757.9195	SLD 4	38.6	Si
6.4	0.006594	3.2	0	2,3,5	-8.0796	2.7087	-358.6	-325.2031	109.023	SLD 8	40.25	Si

1.1.18.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	1.438	1961	1.347	0.368	1.298	SLV 3	Si
0	1.504	1961	1.347	0.368	1.298	SLV 1	Si
0.31	1.574	1961	1.347	0.368	1.298	SLV 1	Si
0.61	1.652	1961	1.347	0.368	1.298	SLV 1	Si
0.92	1.738	1961	1.347	0.368	1.298	SLV 1	Si
1.22	1.834	1961	1.347	0.368	1.298	SLV 3	Si
1.53	1.941	1961	1.347	0.368	1.298	SLV 1	Si
1.83	2.063	1961	1.347	0.368	1.298	SLV 1	Si
2.14	2.201	1961	1.347	0.368	1.298	SLV 1	Si
2.44	2.359	1961	1.347	0.368	1.298	SLV 1	Si
2.75	2.541	1961	1.347	0.368	1.298	SLV 1	Si
3.05	2.752	1961	1.347	0.368	1.298	SLV 3	Si
3.35	3.004	1961	1.347	0.368	1.298	SLV 3	Si
3.66	3.309	1961	1.347	0.368	1.298	SLV 1	Si
3.96	3.684	1961	1.347	0.368	1.298	SLV 1	Si
4.27	4.151	1961	1.347	0.368	1.298	SLV 1	Si
4.57	4.753	1961	1.347	0.368	1.298	SLV 3	Si
4.88	5.566	1961	1.347	0.368	1.298	SLV 1	Si
5.18	6.715	1961	1.347	0.368	1.298	SLV 3	Si
5.49	8.471	1961	1.347	0.368	1.298	SLV 1	Si
5.79	11.283	1961	1.347	0.368	1.298	SLV 1	Si
6.1	16.53	1961	1.347	0.368	1.298	SLV 1	Si
6.4	36.13	1961	1.347	0.368	1.298	SLV 1	Si

1.1.18.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	3.625	1961	3.374	0.368	3.05	SLD 1	Si
0	3.789	1961	3.374	0.368	3.05	SLD 1	Si
0.31	3.965	1961	3.374	0.368	3.05	SLD 1	Si
0.61	4.158	1961	3.374	0.368	3.05	SLD 3	Si
0.92	4.377	1961	3.374	0.368	3.05	SLD 3	Si
1.22	4.623	1961	3.374	0.368	3.05	SLD 1	Si
1.53	4.896	1961	3.374	0.368	3.05	SLD 1	Si
1.83	5.197	1961	3.374	0.368	3.05	SLD 3	Si
2.14	5.546	1961	3.374	0.368	3.05	SLD 3	Si
2.44	5.942	1961	3.374	0.368	3.05	SLD 3	Si
2.75	6.4	1961	3.374	0.368	3.05	SLD 1	Si
3.05	6.934	1961	3.374	0.368	3.05	SLD 3	Si
3.35	7.576	1961	3.374	0.368	3.05	SLD 1	Si
3.66	8.339	1961	3.374	0.368	3.05	SLD 1	Si
3.96	9.276	1961	3.374	0.368	3.05	SLD 3	Si
4.27	10.463	1961	3.374	0.368	3.05	SLD 1	Si
4.57	11.986	1961	3.374	0.368	3.05	SLD 1	Si
4.88	14.037	1961	3.374	0.368	3.05	SLD 1	Si
5.18	16.924	1961	3.374	0.368	3.05	SLD 3	Si
5.49	21.344	1961	3.374	0.368	3.05	SLD 1	Si
5.79	28.428	1961	3.374	0.368	3.05	SLD 3	Si
6.1	41.667	1961	3.374	0.368	3.05	SLD 1	Si
6.4	91.041	1961	3.374	0.368	3.05	SLD 3	Si

1.1.18.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	0	-390.73	SLU 1	218.69	479.47	1468.08	2.5	1000	0	-390.73	SLU 1	218.69	479.47	1468.08	2.5	1000	Si
0	2X/2Y ø8/10	0	-388	SLU 1	218.3	479.47	1467.68	2.5	1000	0	-388	SLU 1	218.3	479.47	1467.68	2.5	1000	Si
0.31	2X/2Y ø8/14.7	0	-385.3	SLU 1	217.93	325.52	1467.29	2.5	1000	0	-385.3	SLU 1	217.93	325.52	1467.29	2.5	1000	Si
0.61	2X/2Y ø8/14.7	0	-382.56	SLU 1	217.54	325.52	1466.89	2.5	1000	0	-382.56	SLU 1	217.54	325.52	1466.89	2.5	1000	Si
0.92	2X/2Y ø8/14.7	0	-379.81	SLU 1	217.16	325.52	1466.5	2.5	1000	0	-379.81	SLU 1	217.16	325.52	1466.5	2.5	1000	Si
1.22	2X/2Y ø8/14.7	0	-377.07	SLU 1	216.78	325.52	1466.1	2.5	1000	0	-377.07	SLU 1	216.78	325.52	1466.1	2.5	1000	Si
1.53	2X/2Y ø8/14.7	0	-374.33	SLU 1	216.39	325.52	1465.71	2.5	1000	0	-374.33	SLU 1	216.39	325.52	1465.71	2.5	1000	Si
1.83	2X/2Y ø8/14.7	0	-371.59	SLU 1	216.01	325.52	1465.31	2.5	1000	0	-371.59	SLU 1	216.01	325.52	1465.31	2.5	1000	Si
2.14	2X/2Y ø8/14.7	0	-368.85	SLU 1	215.63	325.52	1464.91	2.5	1000	0	-368.85	SLU 1	215.63	325.52	1464.91	2.5	1000	Si
2.44	2X/2Y ø8/14.7	0	-366.11	SLU 1	215.24	325.52	1464.52	2.5	1000	0	-366.11	SLU 1	215.24	325.52	1464.52	2.5	1000	Si
2.75	2X/2Y ø8/14.7	0	-363.37	SLU 1	214.86	325.52	1464.12	2.5	1000	0	-363.37	SLU 1	214.86	325.52	1464.12	2.5	1000	Si
3.05	2X/2Y ø8/14.7	0	-360.63	SLU 1	214.48	325.52	1463.72	2.5	1000	0	-360.63	SLU 1	214.48	325.52	1463.72	2.5	1000	Si
3.35	2X/2Y ø8/14.7	0	-357.89	SLU 1	214.1	325.52	1463.33	2.5	1000	0	-357.89	SLU 1	214.1	325.52	1463.33	2.5	1000	Si
3.66	2X/2Y ø8/14.7	0	-355.15	SLU 1	213.71	325.52	1462.93	2.5	1000	0	-355.15	SLU 1	213.71	325.52	1462.93	2.5	1000	Si
3.96	2X/2Y ø8/14.7	0	-352.41	SLU 1	213.33	325.52	1462.54	2.5	1000	0	-352.41	SLU 1	213.33	325.52	1462.54	2.5	1000	Si
4.27	2X/2Y ø8/14.7	0	-349.66	SLU 1	212.95	325.52	1462.14	2.5	1000	0	-349.66	SLU 1	212.95	325.52	1462.14	2.5	1000	Si
4.57	2X/2Y ø8/14.7	0	-346.92	SLU 1	212.56	325.52	1461.74	2.5	1000	0	-346.92	SLU 1	212.56	325.52	1461.74	2.5	1000	Si
4.88	2X/2Y ø8/14.7	0	-344.18	SLU 1	212.18	325.52	1461.35	2.5	1000	0	-344.18	SLU 1	212.18	325.52	1461.35	2.5	1000	Si
5.18	2X/2Y ø8/14.7	0	-341.44	SLU 1	211.8	325.52	1460.95	2.5	1000	0	-341.44	SLU 1	211.8	325.52	1460.95	2.5	1000	Si
5.49	2X/2Y ø8/14.7	0	-338.7	SLU 1	211.41	325.52	1460.55	2.5	1000	0	-338.7	SLU 1	211.41	325.52	1460.55	2.5	1000	Si
5.79	2X/2Y ø8/10	0	-335.96	SLU 1	211.03	479.47	1460.16	2.5	1000	0	-335.96	SLU 1	211.03	479.47	1460.16	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-333.22	SLU 1	210.65	479.47	1459.76	2.5	1000	0	-333.22	SLU 1	210.65	479.47	1459.76	2.5	1000	Si
6.4	2X/2Y ø8/10	0	-330.52	SLU 1	210.27	479.47	1459.37	2.5	1000	0	-330.52	SLU 1	210.27	479.47	1459.37	2.5	1000	Si

1.1.18.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-89.24	-418.81	SLV 1	222.61	479.47	1472.14	2.5	5.37	79.29	-418.81	SLV 8	222.61	479.47	1472.14	2.5	6.05	Si
0	2X/2Y ø8/10	-89.24	-416.07	SLV 1	222.23	479.47	1471.74	2.5	5.37	79.29	-416.07	SLV 8	222.23	479.47	1471.74	2.5	6.05	Si
0.31	2X/2Y ø8/14.7	-89.24	-413.37	SLV 1	221.85	325.52	1471.35	2.5	3.65	79.29	-413.37	SLV 8	221.85	325.52	1471.35	2.5	4.11	Si
0.61	2X/2Y ø8/14.7	-89.24	-410.63	SLV 1	221.47	325.52	1470.95	2.5	3.65	79.29	-410.63	SLV 8	221.47	325.52	1470.95	2.5	4.11	Si
0.92	2X/2Y ø8/14.7	-89.24	-407.89	SLV 1	221.08	325.52	1470.56	2.5	3.65	79.29	-407.89	SLV 8	221.08	325.52	1470.56	2.5	4.11	Si
1.22	2X/2Y ø8/14.7	-89.24	-405.15	SLV 1	220.7	325.52	1470.16	2.5	3.65	79.29	-405.15	SLV 8	220.7	325.52	1470.16	2.5	4.11	Si
1.53	2X/2Y ø8/14.7	-89.24	-402.41	SLV 1	220.32	325.52	1469.76	2.5	3.65	79.29	-402.41	SLV 8	220.32	325.52	1469.76	2.5	4.11	Si
1.83	2X/2Y ø8/14.7	-89.24	-399.67	SLV 1	219.93	325.52	1469.37	2.5	3.65	79.29	-399.67	SLV 8	219.93	325.52	1469.37	2.5	4.11	Si
2.14	2X/2Y ø8/14.7	-89.24	-396.93	SLV 1	219.55	325.52	1468.97	2.5	3.65	79.29	-396.93	SLV 8	219.55	325.52	1468.97	2.5	4.11	Si
2.44	2X/2Y ø8/14.7	-89.24	-394.19	SLV 1	219.17	325.52	1468.58	2.5	3.65	79.29	-394.19	SLV 8	219.17	325.52	1468.58	2.5	4.11	Si
2.75	2X/2Y ø8/14.7	-89.24	-391.45	SLV 1	218.79	325.52	1468.18	2.5	3.65	79.29	-391.45	SLV 8	218.79	325.52	1468.18	2.5	4.11	Si
3.05	2X/2Y ø8/14.7	-89.24	-388.7	SLV 1	218.4	325.52	1467.78	2.5	3.65	79.29	-388.7	SLV 8	218.4	325.52	1467.78	2.5	4.11	Si
3.35	2X/2Y ø8/14.7	-89.24	-385.96	SLV 1	218.02	325.52	1467.39	2.5	3.65	79.29	-385.96	SLV 8	218.02	325.52	1467.39	2.5	4.11	Si
3.66	2X/2Y ø8/14.7	-89.24	-383.22	SLV 1	217.64	325.52	1466.99	2.5	3.65	79.29	-383.22	SLV 8	217.64	325.52	1466.99	2.5	4.11	Si
3.96	2X/2Y ø8/14.7	-89.24	-380.48	SLV 1	217.25	325.52	1466.59	2.5	3.65	79.29	-380.48	SLV 8	217.25	325.52	1466.59	2.5	4.11	Si
4.27	2X/2Y ø8/14.7	-89.24	-377.74	SLV 1	216.87	325.52	1466.2	2.5	3.65	79.29	-377.74	SLV 8	216.87	325.52	1466.2	2.5	4.11	Si
4.57	2X/2Y ø8/14.7	-89.24	-375	SLV 1	216.49	325.52	1465.8	2.5	3.65	79.29	-375	SLV 8	216.49	325.52	1465.8	2.5	4.11	Si
4.88	2X/2Y ø8/14.7	-89.24	-372.26	SLV 1	216.1	325.52	1465.41	2.5	3.65	79.29	-372.26	SLV 8	216.1	325.52	1465.41	2.5	4.11	Si
5.18	2X/2Y ø8/14.7	-89.24	-369.52	SLV 1	215.72	325.52	1465.01	2.5	3.65	79.29	-369.52	SLV 8	215.72	325.52	1465.01	2.5	4.11	Si
5.49	2X/2Y ø8/14.7	-89.24	-366.78	SLV 1	215.34	325.52	1464.61	2.5	3.65	79.29	-366.78	SLV 8	215.34	325.52	1464.61	2.5	4.11	Si
5.79	2X/2Y ø8/10	-89.24	-364.04	SLV 1	214.96	479.47	1464.22	2.5	5.37	79.29	-364.04	SLV 8	214.96	479.47	1464.22	2.5	6.05	Si
6.1	2X/2Y ø8/10	-89.24	-361.3	SLV 1	214.57	479.47	1463.82	2.5	5.37	79.29	-361.3	SLV 8	214.57	479.47	1463.82	2.5	6.05	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
6.4	2X/2Y ø8/10	-89.24	-358.6	SLV 1	214.2	479.47	1463.43	2.5	5.37	79.29	-358.6	SLV 8	214.2	479.47	1463.43	2.5	6.05	Si

1.1.18.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	6.8	X	3.813	0.172	0.6	0.0199	0.004444	0.023198	0	222.61	2134.597	479.475	191.79	284.1	479.475	89.239	-418.81	SLV 16	Si
-0.3	-0.975	6.8	Y	3.813	0.172	0.6	0.0199	0.003614	0.023198	0	222.61	2134.597	479.475	191.79	284.1	479.475	79.292	-418.81	SLV 8	Si

1.1.18.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-35.41	-418.81	SLD 1	222.61	479.47	1472.14	2.5	13.54	31.47	-418.81	SLD 8	222.61	479.47	1472.14	2.5	15.23	Si
0	2X/2Y ø8/10	-35.41	-416.07	SLD 1	222.23	479.47	1471.74	2.5	13.54	31.47	-416.07	SLD 8	222.23	479.47	1471.74	2.5	15.23	Si
0.31	2X/2Y ø8/14.7	-35.41	-413.37	SLD 1	221.85	325.52	1471.35	2.5	9.19	31.47	-413.37	SLD 8	221.85	325.52	1471.35	2.5	10.34	Si
0.61	2X/2Y ø8/14.7	-35.41	-410.63	SLD 1	221.47	325.52	1470.95	2.5	9.19	31.47	-410.63	SLD 8	221.47	325.52	1470.95	2.5	10.34	Si
0.92	2X/2Y ø8/14.7	-35.41	-407.89	SLD 1	221.08	325.52	1470.56	2.5	9.19	31.47	-407.89	SLD 8	221.08	325.52	1470.56	2.5	10.34	Si
1.22	2X/2Y ø8/14.7	-35.41	-405.15	SLD 1	220.7	325.52	1470.16	2.5	9.19	31.47	-405.15	SLD 8	220.7	325.52	1470.16	2.5	10.34	Si
1.53	2X/2Y ø8/14.7	-35.41	-402.41	SLD 1	220.32	325.52	1469.76	2.5	9.19	31.47	-402.41	SLD 8	220.32	325.52	1469.76	2.5	10.34	Si
1.83	2X/2Y ø8/14.7	-35.41	-399.67	SLD 1	219.93	325.52	1469.37	2.5	9.19	31.47	-399.67	SLD 8	219.93	325.52	1469.37	2.5	10.34	Si
2.14	2X/2Y ø8/14.7	-35.41	-396.93	SLD 1	219.55	325.52	1468.97	2.5	9.19	31.47	-396.93	SLD 8	219.55	325.52	1468.97	2.5	10.34	Si
2.44	2X/2Y ø8/14.7	-35.41	-394.19	SLD 1	219.17	325.52	1468.58	2.5	9.19	31.47	-394.19	SLD 8	219.17	325.52	1468.58	2.5	10.34	Si
2.75	2X/2Y ø8/14.7	-35.41	-391.45	SLD 1	218.79	325.52	1468.18	2.5	9.19	31.47	-391.45	SLD 8	218.79	325.52	1468.18	2.5	10.34	Si
3.05	2X/2Y ø8/14.7	-35.41	-388.7	SLD 1	218.4	325.52	1467.78	2.5	9.19	31.47	-388.7	SLD 8	218.4	325.52	1467.78	2.5	10.34	Si
3.35	2X/2Y ø8/14.7	-35.41	-385.96	SLD 1	218.02	325.52	1467.39	2.5	9.19	31.47	-385.96	SLD 8	218.02	325.52	1467.39	2.5	10.34	Si
3.66	2X/2Y ø8/14.7	-35.41	-383.22	SLD 1	217.64	325.52	1466.99	2.5	9.19	31.47	-383.22	SLD 8	217.64	325.52	1466.99	2.5	10.34	Si
3.96	2X/2Y ø8/14.7	-35.41	-380.48	SLD 1	217.25	325.52	1466.59	2.5	9.19	31.47	-380.48	SLD 8	217.25	325.52	1466.59	2.5	10.34	Si
4.27	2X/2Y ø8/14.7	-35.41	-377.74	SLD 1	216.87	325.52	1466.2	2.5	9.19	31.47	-377.74	SLD 8	216.87	325.52	1466.2	2.5	10.34	Si
4.57	2X/2Y ø8/14.7	-35.41	-375	SLD 1	216.49	325.52	1465.8	2.5	9.19	31.47	-375	SLD 8	216.49	325.52	1465.8	2.5	10.34	Si
4.88	2X/2Y ø8/14.7	-35.41	-372.26	SLD 1	216.1	325.52	1465.41	2.5	9.19	31.47	-372.26	SLD 8	216.1	325.52	1465.41	2.5	10.34	Si
5.18	2X/2Y ø8/14.7	-35.41	-369.52	SLD 1	215.72	325.52	1465.01	2.5	9.19	31.47	-369.52	SLD 8	215.72	325.52	1465.01	2.5	10.34	Si
5.49	2X/2Y ø8/14.7	-35.41	-366.78	SLD 1	215.34	325.52	1464.61	2.5	9.19	31.47	-366.78	SLD 8	215.34	325.52	1464.61	2.5	10.34	Si
5.79	2X/2Y ø8/10	-35.41	-364.04	SLD 1	214.96	479.47	1464.22	2.5	13.54	31.47	-364.04	SLD 8	214.96	479.47	1464.22	2.5	15.23	Si
6.1	2X/2Y ø8/10	-35.41	-361.3	SLD 1	214.57	479.47	1463.82	2.5	13.54	31.47	-361.3	SLD 8	214.57	479.47	1463.82	2.5	15.23	Si
6.4	2X/2Y ø8/10	-35.41	-358.6	SLD 1	214.2	479.47	1463.43	2.5	13.54	31.47	-358.6	SLD 8	214.2	479.47	1463.43	2.5	15.23	Si

1.1.18.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	5.375	1961	1.347	0.368	1.298	SLV 1	Si
0.31	3.648	1961	1.347	0.368	1.298	SLV 1	Si
0.61	3.648	1961	1.347	0.368	1.298	SLV 1	Si
0.92	3.648	1961	1.347	0.368	1.298	SLV 1	Si
1.22	3.648	1961	1.347	0.368	1.298	SLV 1	Si
1.53	3.648	1961	1.347	0.368	1.298	SLV 1	Si
1.83	3.648	1961	1.347	0.368	1.298	SLV 1	Si
2.14	3.648	1961	1.347	0.368	1.298	SLV 1	Si
2.44	3.648	1961	1.347	0.368	1.298	SLV 1	Si
2.75	3.648	1961	1.347	0.368	1.298	SLV 1	Si
3.05	3.648	1961	1.347	0.368	1.298	SLV 1	Si
3.35	3.648	1961	1.347	0.368	1.298	SLV 1	Si
3.66	3.648	1961	1.347	0.368	1.298	SLV 1	Si
3.96	3.648	1961	1.347	0.368	1.298	SLV 1	Si
4.27	3.648	1961	1.347	0.368	1.298	SLV 1	Si
4.57	3.648	1961	1.347	0.368	1.298	SLV 1	Si
4.88	3.648	1961	1.347	0.368	1.298	SLV 1	Si
5.18	3.648	1961	1.347	0.368	1.298	SLV 1	Si
5.49	3.648	1961	1.347	0.368	1.298	SLV 1	Si
5.79	5.375	1961	1.347	0.368	1.298	SLV 1	Si
6.1	5.375	1961	1.347	0.368	1.298	SLV 1	Si
6.4	5.375	1961	1.347	0.368	1.298	SLV 1	Si

1.1.18.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	13.539	1961	3.374	0.368	3.05	SLD 1	Si
0	13.539	1961	3.374	0.368	3.05	SLD 1	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0.31	9.188	1961	3.374	0.368	3.05	SLD 1	Si
0.61	9.188	1961	3.374	0.368	3.05	SLD 1	Si
0.92	9.188	1961	3.374	0.368	3.05	SLD 1	Si
1.22	9.188	1961	3.374	0.368	3.05	SLD 1	Si
1.53	9.188	1961	3.374	0.368	3.05	SLD 1	Si
1.83	9.188	1961	3.374	0.368	3.05	SLD 1	Si
2.14	9.188	1961	3.374	0.368	3.05	SLD 1	Si
2.44	9.188	1961	3.374	0.368	3.05	SLD 1	Si
2.75	9.188	1961	3.374	0.368	3.05	SLD 1	Si
3.05	9.188	1961	3.374	0.368	3.05	SLD 1	Si
3.35	9.188	1961	3.374	0.368	3.05	SLD 1	Si
3.66	9.188	1961	3.374	0.368	3.05	SLD 1	Si
3.96	9.188	1961	3.374	0.368	3.05	SLD 1	Si
4.27	9.188	1961	3.374	0.368	3.05	SLD 1	Si
4.57	9.188	1961	3.374	0.368	3.05	SLD 1	Si
4.88	9.188	1961	3.374	0.368	3.05	SLD 1	Si
5.18	9.188	1961	3.374	0.368	3.05	SLD 1	Si
5.49	9.188	1961	3.374	0.368	3.05	SLD 1	Si
5.79	13.539	1961	3.374	0.368	3.05	SLD 1	Si
6.1	13.539	1961	3.374	0.368	3.05	SLD 1	Si
6.4	13.539	1961	3.374	0.368	3.05	SLD 1	Si

1.1.18.4 Verifiche nodi trave colonna

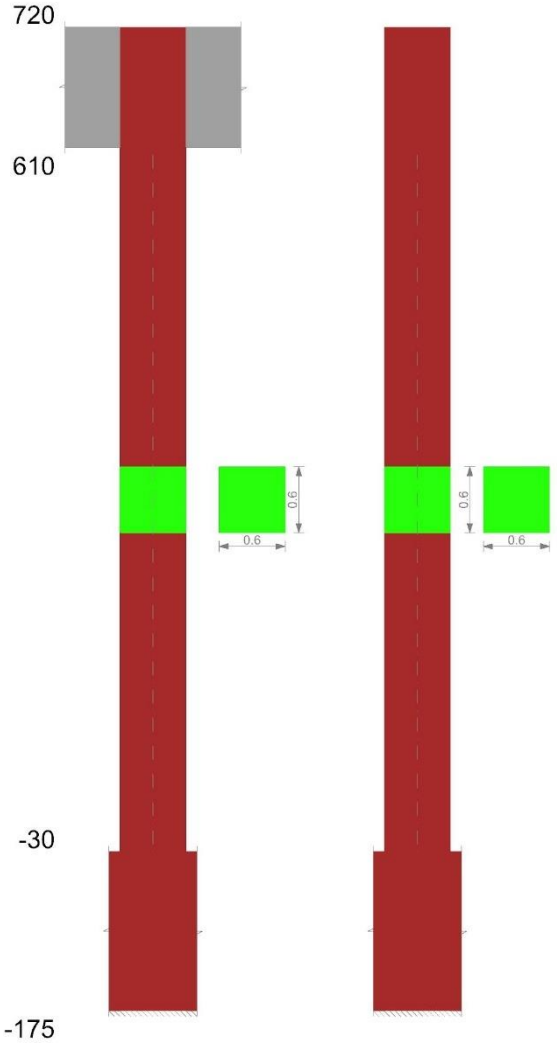
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.18.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.19 P28

Geometria



1.1.19.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.19.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.1	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.19.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2131	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.2	-0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2131	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	-0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2131	-0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	0.2131	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2531	0.2131	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.2	-0.2131	0.2531	0.026	0.0005309	-0.299	7.2	R 60x60_1	Armature LC2
p.3	0	-0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0	0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0	-0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.4	0	0.259	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.3	-0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	-0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2
p.4	0.259	0	0.016	0.0002011	-0.299	7.2	R 60x60_1	Armature LC2

1.1.19.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.19.3 Verifiche delle sezioni

1.1.19.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4	0	0	-968.81	0	0	SLU 17	10.871	Si
0	0.007175	4	0	1,2,3,4	0	0	-965.26	0	0	SLU 17	10.911	Si
0.31	0.007175	3.8	0	1,2,4	0	0	-961.74	0	0	SLU 17	10.951	Si
0.61	0.007175	3.8	0	1,2,4	0	0	-958.17	0	0	SLU 17	10.992	Si
0.92	0.007175	3.8	0	1,2,4	0	0	-954.61	0	0	SLU 17	11.033	Si
1.22	0.007175	2	0	2,4	0	0	-951.04	0	0	SLU 17	11.074	Si
1.53	0.007175	2	0	2,4	0	0	-947.48	0	0	SLU 17	11.116	Si
1.83	0.007175	2	0	2,4	0	0	-943.91	0	0	SLU 17	11.158	Si
2.14	0.007175	2	0	2,4	0	0	-940.34	0	0	SLU 17	11.2	Si
2.44	0.007175	2	0	2,4	0	0	-936.78	0	0	SLU 17	11.243	Si
2.75	0.007175	2	0	2,4	0	0	-933.21	0	0	SLU 17	11.286	Si
3.05	0.007175	2	0	2,4	0	0	-929.65	0	0	SLU 17	11.329	Si
3.36	0.007175	2	0	2,4	0	0	-926.08	0	0	SLU 17	11.373	Si
3.66	0.007175	2	0	2,4	0	0	-922.52	0	0	SLU 17	11.417	Si
3.97	0.007175	2	0	2,4	0	0	-918.95	0	0	SLU 17	11.461	Si
4.27	0.007175	2	0	2,4	0	0	-915.38	0	0	SLU 17	11.506	Si
4.58	0.007175	2	0	2,4	0	0	-911.82	0	0	SLU 17	11.551	Si
4.88	0.007175	2	0	2,4	0	0	-908.25	0	0	SLU 17	11.596	Si
5.19	0.007175	2	0	2,4	0	0	-904.69	0	0	SLU 17	11.642	Si
5.49	0.007175	2	0	2,4	0	0	-901.12	0	0	SLU 17	11.688	Si
5.8	0.007175	2	0	2,4	0	0	-897.56	0	0	SLU 17	11.734	Si
6.1	0.005988	2	0	2,4	0	0	-894.05	0	0	SLU 17	11.277	Si

1.1.19.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007175	4	0	1,2,3,4	1038.4982	-269.983	-494.22	893.4481	-232.2737	SLV 10	0.86				No
0	0.007175	4	0	1,2,3,4	993.0126	-258.1702	-491.49	897.7153	-233.3942	SLV 10	0.904				No
0.31	0.007175	3.8	0	1,2,4	948.0088	-246.4825	-488.78	902.3682	-234.616	SLV 10	0.952				No
0.61	0.007175	3.8	0	1,2,4	902.3898	-234.6351	-486.04	907.6156	-235.9938	SLV 10	1.006				Si
0.92	0.007175	3.8	0	1,2,4	856.7709	-222.7876	-483.3	913.4932	-237.5372	SLV 10	1.066				Si
1.22	0.007175	2	0	2,4	811.152	-210.9402	-480.55	920.122	-239.2778	SLV 10	1.134				Si
1.53	0.007175	2	0	2,4	765.533	-199.0927	-477.81	927.6558	-241.2561	SLV 10	1.212				Si
1.83	0.007175	2	0	2,4	719.914	-187.2452	-475.07	936.2684	-243.5177	SLV 10	1.301				Si
2.14	0.007175	2	0	2,4	674.2951	-175.3978	-472.32	946.1369	-246.1094	SLV 10	1.403				Si
2.44	0.007175	2	0	2,4	628.6762	-163.5503	-469.58	957.696	-249.145	SLV 10	1.523				Si
2.75	0.007175	2	0	2,4	583.0572	-151.7029	-466.84	971.4208	-252.7494	SLV 10	1.666				Si
3.05	0.007175	2	0	2,4	537.4383	-139.8555	-464.1	987.3451	-256.9329	SLV 10	1.837				Si
3.36	0.007175	2	0	2,4	491.8194	-128.008	-461.35	1006.7924	-262.0423	SLV 10	2.047				Si
3.66	0.007175	2	0	2,4	446.2004	-116.1605	-458.61	1030.5731	-268.2919	SLV 10	2.31				Si
3.97	0.007175	2	0	2,4	400.5815	-104.3131	-455.87	1060.1298	-276.0623	SLV 10	2.646				Si
4.27	0.007175	2	0	2,4	354.9625	-92.4656	-453.12	1097.7688	-285.9623	SLV 10	3.093				Si
4.58	0.007175	2	0	2,4	309.3436	-80.6182	-450.38	1148.3578	-299.2741	SLV 10	3.712				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
4.88	0.007175	2	0	2,4	263.7247	-68.7707	-447.64	1214.3765	-316.6695	SLV 10	4.605				Si
5.19	0.007175	2	0	2,4	218.1059	-56.9233	-444.9	1308.8345	-341.5918	SLV 10	6.001				Si
5.49	0.007175	2	0	2,4	172.487	-45.0758	-442.15	1427.4431	-373.0321	SLV 10	8.276				Si
5.8	0.007175	2	0	2,4	126.8683	-33.2284	-439.41	1524.3868	-399.2561	SLV 10	12.016				Si
6.1	0.005988	2	0	2,4	81.9982	-21.5753	-436.71	1424.0914	-374.7061	SLV 10	17.367				Si

1.1.19.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007175	4	0	1,2,3,4	412.1097	-107.1261	-494.22	1076.657	-279.8723	SLD 10	2.613	Si
0	0.007175	4	0	1,2,3,4	394.0595	-102.4389	-491.49	1089.7882	-283.2992	SLD 10	2.766	Si
0.31	0.007175	3.8	0	1,2,4	376.2005	-97.8014	-488.78	1104.3208	-287.0918	SLD 10	2.935	Si
0.61	0.007175	3.8	0	1,2,4	358.0974	-93.1004	-486.04	1120.7542	-291.3808	SLD 10	3.13	Si
0.92	0.007175	3.8	0	1,2,4	339.9944	-88.3995	-483.3	1138.6923	-296.0633	SLD 10	3.349	Si
1.22	0.007175	2	0	2,4	321.8913	-83.6986	-480.55	1158.4844	-301.2306	SLD 10	3.599	Si
1.53	0.007175	2	0	2,4	303.7882	-78.9977	-477.81	1180.3477	-306.9398	SLD 10	3.885	Si
1.83	0.007175	2	0	2,4	285.6851	-74.2967	-475.07	1205.0697	-313.3965	SLD 10	4.218	Si
2.14	0.007175	2	0	2,4	267.5821	-69.5958	-472.32	1233.8721	-320.9195	SLD 10	4.611	Si
2.44	0.007175	2	0	2,4	249.479	-64.8949	-469.58	1267.0581	-329.5891	SLD 10	5.079	Si
2.75	0.007175	2	0	2,4	231.3759	-60.1939	-466.84	1303.5097	-339.1164	SLD 10	5.634	Si
3.05	0.007175	2	0	2,4	213.2728	-55.493	-464.1	1346.8237	-350.4398	SLD 10	6.315	Si
3.36	0.007175	2	0	2,4	195.1698	-50.7921	-461.35	1388.9664	-361.4724	SLD 10	7.117	Si
3.66	0.007175	2	0	2,4	177.0667	-46.0911	-458.61	1433.0333	-373.0241	SLD 10	8.093	Si
3.97	0.007175	2	0	2,4	158.9636	-41.3902	-455.87	1470.0574	-382.7668	SLD 10	9.248	Si
4.27	0.007175	2	0	2,4	140.8606	-36.6893	-453.12	1508.9133	-393.0195	SLD 10	10.712	Si
4.58	0.007175	2	0	2,4	122.7575	-31.9884	-450.38	1539.3603	-401.1291	SLD 10	12.54	Si
4.88	0.007175	2	0	2,4	104.6544	-27.2874	-447.64	1550.8579	-404.3682	SLD 10	14.819	Si
5.19	0.007175	2	0	2,4	86.5514	-22.5865	-444.9	1511.6141	-394.4717	SLD 10	17.465	Si
5.49	0.007175	2	0	2,4	68.4484	-17.8856	-442.15	1423.4232	-371.9408	SLD 10	20.796	Si
5.8	0.007175	2	0	2,4	50.3454	-13.1846	-439.41	1258.6959	-329.6322	SLD 10	25.001	Si
6.1	0.005988	2	0	2,4	32.5395	-8.5608	-436.71	939.8846	-247.275	SLD 10	28.884	Si

1.1.19.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	0.875	675	0.87	0.251	0.885	SLV 7	No
0	0.914	755	0.91	0.261	0.921	SLV 7	No
0.31	0.957	848	0.955	0.272	0.96	SLV 7	No
0.61	1.006	962	1.006	0.285	1.005	SLV 7	Si
0.92	1.059	1113	1.068	0.3	1.059	SLV 7	Si
1.22	1.117	1299	1.137	0.317	1.119	SLV 7	Si
1.53	1.182	1525	1.215	0.336	1.186	SLV 7	Si
1.83	1.256	1817	1.305	0.358	1.263	SLV 7	Si
2.14	1.34	1961	1.347	0.368	1.298	SLV 7	Si
2.44	1.438	1961	1.347	0.368	1.298	SLV 7	Si
2.75	1.547	1961	1.347	0.368	1.298	SLV 7	Si
3.05	1.68	1961	1.347	0.368	1.298	SLV 7	Si
3.36	1.832	1961	1.347	0.368	1.298	SLV 7	Si
3.66	2.02	1961	1.347	0.368	1.298	SLV 7	Si
3.97	2.248	1961	1.347	0.368	1.298	SLV 7	Si
4.27	2.535	1961	1.347	0.368	1.298	SLV 7	Si
4.58	2.904	1961	1.347	0.368	1.298	SLV 7	Si
4.88	3.408	1961	1.347	0.368	1.298	SLV 7	Si
5.19	4.117	1961	1.347	0.368	1.298	SLV 7	Si
5.49	5.197	1961	1.347	0.368	1.298	SLV 7	Si
5.8	7.07	1961	1.347	0.368	1.298	SLV 7	Si
6.1	9.423	1961	1.347	0.368	1.298	SLV 7	Si

1.1.19.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	2.207	677	2.182	0.251	2.08	SLD 7	Si
0	2.307	757	2.284	0.261	2.167	SLD 7	Si
0.31	2.412	848	2.393	0.272	2.257	SLD 7	Si
0.61	2.532	960	2.517	0.285	2.36	SLD 7	Si
0.92	2.664	1109	2.671	0.3	2.485	SLD 7	Si
1.22	2.813	1297	2.848	0.317	2.629	SLD 7	Si
1.53	2.98	1529	3.047	0.337	2.789	SLD 7	Si
1.83	3.168	1822	3.274	0.358	2.97	SLD 7	Si
2.14	3.379	1961	3.374	0.368	3.05	SLD 7	Si
2.44	3.619	1961	3.374	0.368	3.05	SLD 7	Si
2.75	3.9	1961	3.374	0.368	3.05	SLD 7	Si
3.05	4.227	1961	3.374	0.368	3.05	SLD 7	Si
3.36	4.623	1961	3.374	0.368	3.05	SLD 7	Si
3.66	5.088	1961	3.374	0.368	3.05	SLD 7	Si
3.97	5.662	1961	3.374	0.368	3.05	SLD 7	Si
4.27	6.387	1961	3.374	0.368	3.05	SLD 7	Si
4.58	7.323	1961	3.374	0.368	3.05	SLD 7	Si
4.88	8.588	1961	3.374	0.368	3.05	SLD 7	Si
5.19	10.375	1961	3.374	0.368	3.05	SLD 7	Si
5.49	13.1	1961	3.374	0.368	3.05	SLD 7	Si
5.8	17.802	1961	3.374	0.368	3.05	SLD 7	Si
6.1	23.766	1961	3.374	0.368	3.05	SLD 7	Si

1.1.19.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	0	-487.66	SLU 1	232.23	479.47	1482.09	2.5	1000	0	-487.66	SLU 1	232.23	479.47	1482.09	2.5	1000	Si

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		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
0	2X/2Y ø8/10	0	-484.93	SLU 1	231.85	479.47	1481.69	2.5	1000	0	-484.93	SLU 1	231.85	479.47	1481.69	2.5	1000	Si
0.31	2X/2Y ø8/10	0	-482.22	SLU 1	231.47	479.47	1481.3	2.5	1000	0	-482.22	SLU 1	231.47	479.47	1481.3	2.5	1000	Si
0.61	2X/2Y ø8/10	0	-479.48	SLU 1	231.09	479.47	1480.91	2.5	1000	0	-479.48	SLU 1	231.09	479.47	1480.91	2.5	1000	Si
0.92	2X/2Y ø8/10	0	-476.74	SLU 1	230.7	479.47	1480.51	2.5	1000	0	-476.74	SLU 1	230.7	479.47	1480.51	2.5	1000	Si
1.22	2X/2Y ø8/10	0	-473.99	SLU 1	230.32	479.47	1480.11	2.5	1000	0	-473.99	SLU 1	230.32	479.47	1480.11	2.5	1000	Si
1.53	2X/2Y ø8/10	0	-471.25	SLU 1	229.94	479.47	1479.72	2.5	1000	0	-471.25	SLU 1	229.94	479.47	1479.72	2.5	1000	Si
1.83	2X/2Y ø8/14.8	0	-468.51	SLU 1	229.56	323.65	1479.32	2.5	1000	0	-468.51	SLU 1	229.56	323.65	1479.32	2.5	1000	Si
2.14	2X/2Y ø8/14.8	0	-465.77	SLU 1	229.17	323.65	1478.92	2.5	1000	0	-465.77	SLU 1	229.17	323.65	1478.92	2.5	1000	Si
2.44	2X/2Y ø8/14.8	0	-463.02	SLU 1	228.79	323.65	1478.53	2.5	1000	0	-463.02	SLU 1	228.79	323.65	1478.53	2.5	1000	Si
2.75	2X/2Y ø8/14.8	0	-460.28	SLU 1	228.41	323.65	1478.13	2.5	1000	0	-460.28	SLU 1	228.41	323.65	1478.13	2.5	1000	Si
3.05	2X/2Y ø8/14.8	0	-457.54	SLU 1	228.02	323.65	1477.73	2.5	1000	0	-457.54	SLU 1	228.02	323.65	1477.73	2.5	1000	Si
3.36	2X/2Y ø8/14.8	0	-454.79	SLU 1	227.64	323.65	1477.34	2.5	1000	0	-454.79	SLU 1	227.64	323.65	1477.34	2.5	1000	Si
3.66	2X/2Y ø8/14.8	0	-452.05	SLU 1	227.26	323.65	1476.94	2.5	1000	0	-452.05	SLU 1	227.26	323.65	1476.94	2.5	1000	Si
3.97	2X/2Y ø8/14.8	0	-449.31	SLU 1	226.87	323.65	1476.54	2.5	1000	0	-449.31	SLU 1	226.87	323.65	1476.54	2.5	1000	Si
4.27	2X/2Y ø8/14.8	0	-446.57	SLU 1	226.49	323.65	1476.15	2.5	1000	0	-446.57	SLU 1	226.49	323.65	1476.15	2.5	1000	Si
4.58	2X/2Y ø8/14.8	0	-443.82	SLU 1	226.11	323.65	1475.75	2.5	1000	0	-443.82	SLU 1	226.11	323.65	1475.75	2.5	1000	Si
4.88	2X/2Y ø8/14.8	0	-441.08	SLU 1	225.72	323.65	1475.36	2.5	1000	0	-441.08	SLU 1	225.72	323.65	1475.36	2.5	1000	Si
5.19	2X/2Y ø8/14.8	0	-438.34	SLU 1	225.34	323.65	1474.96	2.5	1000	0	-438.34	SLU 1	225.34	323.65	1474.96	2.5	1000	Si
5.49	2X/2Y ø8/14.8	0	-435.59	SLU 1	224.96	323.65	1474.56	2.5	1000	0	-435.59	SLU 1	224.96	323.65	1474.56	2.5	1000	Si
5.8	2X/2Y ø8/10	0	-432.85	SLU 1	224.57	479.47	1474.17	2.5	1000	0	-432.85	SLU 1	224.57	479.47	1474.17	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-430.15	SLU 1	224.19	479.47	1473.78	2.5	1000	0	-430.15	SLU 1	224.19	479.47	1473.78	2.5	1000	Si

1.1.19.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-129.59	-494.22	SLV 2	233.15	479.47	1483.04	2.5	3.7	-149.69	-494.22	SLV 10	233.15	479.47	1483.04	2.5	3.2	Si
0	2X/2Y ø8/10	-129.59	-491.49	SLV 2	232.77	479.47	1482.64	2.5	3.7	-149.69	-491.49	SLV 10	232.77	479.47	1482.64	2.5	3.2	Si
0.31	2X/2Y ø8/10	-129.59	-488.78	SLV 2	232.39	479.47	1482.25	2.5	3.7	-149.69	-488.78	SLV 10	232.39	479.47	1482.25	2.5	3.2	Si
0.61	2X/2Y ø8/10	-129.59	-486.04	SLV 2	232	479.47	1481.85	2.5	3.7	-149.69	-486.04	SLV 10	232	479.47	1481.85	2.5	3.2	Si
0.92	2X/2Y ø8/10	-129.59	-483.3	SLV 2	231.62	479.47	1481.46	2.5	3.7	-149.69	-483.3	SLV 10	231.62	479.47	1481.46	2.5	3.2	Si
1.22	2X/2Y ø8/10	-129.59	-480.55	SLV 2	231.24	479.47	1481.06	2.5	3.7	-149.69	-480.55	SLV 10	231.24	479.47	1481.06	2.5	3.2	Si
1.53	2X/2Y ø8/10	-129.59	-477.81	SLV 2	230.85	479.47	1480.67	2.5	3.7	-149.69	-477.81	SLV 10	230.85	479.47	1480.67	2.5	3.2	Si
1.83	2X/2Y ø8/14.8	-129.59	-475.07	SLV 2	230.47	323.65	1480.27	2.5	2.5	-149.69	-475.07	SLV 10	230.47	323.65	1480.27	2.5	2.16	Si
2.14	2X/2Y ø8/14.8	-129.59	-472.32	SLV 2	230.09	323.65	1479.87	2.5	2.5	-149.69	-472.32	SLV 10	230.09	323.65	1479.87	2.5	2.16	Si
2.44	2X/2Y ø8/14.8	-129.59	-469.58	SLV 2	229.7	323.65	1479.48	2.5	2.5	-149.69	-469.58	SLV 10	229.7	323.65	1479.48	2.5	2.16	Si
2.75	2X/2Y ø8/14.8	-129.59	-466.84	SLV 2	229.32	323.65	1479.08	2.5	2.5	-149.69	-466.84	SLV 10	229.32	323.65	1479.08	2.5	2.16	Si
3.05	2X/2Y ø8/14.8	-129.59	-464.1	SLV 2	228.94	323.65	1478.68	2.5	2.5	-149.69	-464.1	SLV 10	228.94	323.65	1478.68	2.5	2.16	Si
3.36	2X/2Y ø8/14.8	-129.59	-461.35	SLV 2	228.56	323.65	1478.29	2.5	2.5	-149.69	-461.35	SLV 10	228.56	323.65	1478.29	2.5	2.16	Si
3.66	2X/2Y ø8/14.8	-129.59	-458.61	SLV 2	228.17	323.65	1477.89	2.5	2.5	-149.69	-458.61	SLV 10	228.17	323.65	1477.89	2.5	2.16	Si
3.97	2X/2Y ø8/14.8	-129.59	-455.87	SLV 2	227.79	323.65	1477.49	2.5	2.5	-149.69	-455.87	SLV 10	227.79	323.65	1477.49	2.5	2.16	Si
4.27	2X/2Y ø8/14.8	-129.59	-453.12	SLV 2	227.41	323.65	1477.1	2.5	2.5	-149.69	-453.12	SLV 10	227.41	323.65	1477.1	2.5	2.16	Si
4.58	2X/2Y ø8/14.8	-129.59	-450.38	SLV 2	227.02	323.65	1476.7	2.5	2.5	-149.69	-450.38	SLV 10	227.02	323.65	1476.7	2.5	2.16	Si
4.88	2X/2Y ø8/14.8	-129.59	-447.64	SLV 2	226.64	323.65	1476.3	2.5	2.5	-149.69	-447.64	SLV 10	226.64	323.65	1476.3	2.5	2.16	Si
5.19	2X/2Y ø8/14.8	-129.59	-444.9	SLV 2	226.26	323.65	1475.91	2.5	2.5	-149.69	-444.9	SLV 10	226.26	323.65	1475.91	2.5	2.16	Si
5.49	2X/2Y ø8/14.8	-129.59	-442.15	SLV 2	225.87	323.65	1475.51	2.5	2.5	-149.69	-442.15	SLV 10	225.87	323.65	1475.51	2.5	2.16	Si
5.8	2X/2Y ø8/10	-129.59	-439.41	SLV 2	225.49	479.47	1475.11	2.5	3.7	-149.69	-439.41	SLV 10	225.49	479.47	1475.11	2.5	3.2	Si
6.1	2X/2Y ø8/10	-129.59	-436.71	SLV 2	225.11	479.47	1474.72	2.5	3.7	-149.69	-436.71	SLV 10	225.11	479.47	1474.72	2.5	3.2	Si

1.1.19.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula

[C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-1.025	6.65	X	7.625	0.176	0.6	0.0199	0.010298	0.023198	0	233.149	2150.405	479.475	191.79	275.606	479.475	-129.587	-494.222	SLV 2	Si
-0.3	-1.025	6.65	Y	7.617	0.176	0.6	0.0199	0.010862	0.023198	0	233.149	2150.405	479.475	191.79	275.618	479.475	-149.687	-494.222	SLV 10	Si

1.1.19.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	51.42	-494.22	SLD 15	233.15	479.47	1483.04	2.5	9.32	-59.4	-494.22	SLD 10	233.15	479.47	1483.04	2.5	8.07	Si
0	2X/2Y ø8/10	51.42	-491.49	SLD 15	232.77	479.47	1482.64	2.5	9.32	-59.4	-491.49	SLD 10	232.77	479.47	1482.64	2.5	8.07	Si
0.31	2X/2Y ø8/10	51.42	-488.78	SLD 15	232.39	479.47	1482.25	2.5	9.32	-59.4	-488.78	SLD 10	232.39	479.47	1482.25	2.5	8.07	Si
0.61	2X/2Y ø8/10	51.42	-486.04	SLD 15	232	479.47	1481.85	2.5	9.32	-59.4	-486.04	SLD 10	232	479.47	1481.85	2.5	8.07	Si
0.92	2X/2Y ø8/10	51.42	-483.3	SLD 15	231.62	479.47	1481.46	2.5	9.32	-59.4	-483.3	SLD 10	231.62	479.47	1481.46	2.5	8.07	Si
1.22	2X/2Y ø8/10	51.42	-480.55	SLD 15	231.24	479.47	1481.06	2.5	9.32	-59.4	-480.55	SLD 10	231.24	479.47	1481.06	2.5	8.07	Si
1.53	2X/2Y ø8/10	51.42	-477.81	SLD 15	230.85	479.47	1480.67	2.5	9.32	-59.4	-477.81	SLD 10	230.85	479.47	1480.67	2.5	8.07	Si
1.83	2X/2Y ø8/14.8	51.42	-475.07	SLD 15	230.47	323.65	1480.27	2.5	6.29	-59.4	-475.07	SLD 10	230.47	323.65	1480.27	2.5	5.45	Si
2.14	2X/2Y ø8/14.8	51.42	-472.32	SLD 15	230.09	323.65	1479.87	2.5	6.29	-59.4	-472.32	SLD 10	230.09	323.65	1479.87	2.5	5.45	Si
2.44	2X/2Y ø8/14.8	51.42	-469.58	SLD 15	229.7	323.65	1479.48	2.5	6.29	-59.4	-469.58	SLD 10	229.7	323.65	1479.48	2.5	5.45	Si
2.75	2X/2Y ø8/14.8	51.42	-466.84	SLD 15	229.32	323.65	1479.08	2.5	6.29	-59.4	-466.84	SLD 10	229.32	323.65	1479.08	2.5	5.45	Si
3.05	2X/2Y ø8/14.8	51.42	-464.1	SLD 15	228.94	323.65	1478.68	2.5	6.29	-59.4	-464.1	SLD 10	228.94	323.65	1478.68	2.5	5.45	Si
3.36	2X/2Y ø8/14.8	51.42	-461.35	SLD 15	228.56	323.65	1478.29	2.5	6.29	-59.4	-461.35	SLD 10	228.56	323.65	1478.29	2.5	5.45	Si
3.66	2X/2Y ø8/14.8	51.42	-458.61	SLD 15	228.17	323.65	1477.89	2.5	6.29	-59.4	-458.61	SLD 10	228.17	323.65	1477.89	2.5	5.45	Si
3.97	2X/2Y ø8/14.8	51.42	-455.87	SLD 15	227.79	323.65	1477.49	2.5	6.29	-59.4	-455.87	SLD 10	227.79	323.65	1477.49	2.5	5.45	Si
4.27	2X/2Y ø8/14.8	51.42	-453.12	SLD 15	227.41	323.65	1477.1	2.5	6.29	-59.4	-453.12	SLD 10	227.41	323.65	1477.1	2.5	5.45	Si
4.58	2X/2Y ø8/14.8	51.42	-450.38	SLD 15	227.02	323.65	1476.7	2.5	6.29	-59.4	-450.38	SLD 10	227.02	323.65	1476.7	2.5	5.45	Si
4.88	2X/2Y ø8/14.8	51.42	-447.64	SLD 15	226.64	323.65	1476.3	2.5	6.29	-59.4	-447.64	SLD 10	226.64	323.65	1476.3	2.5	5.45	Si
5.19	2X/2Y ø8/14.8	51.42	-444.9	SLD 15	226.26	323.65	1475.91	2.5	6.29	-59.4	-444.9	SLD 10	226.26	323.65	1475.91	2.5	5.45	Si
5.49	2X/2Y ø8/14.8	51.42	-442.15	SLD 15	225.87	323.65	1475.51	2.5	6.29	-59.4	-442.15	SLD 10	225.87	323.65	1475.51	2.5	5.45	Si
5.8	2X/2Y ø8/10	51.42	-439.41	SLD 15	225.49	479.47	1475.11	2.5	9.32	-59.4	-439.41	SLD 10	225.49	479.47	1475.11	2.5	8.07	Si
6.1	2X/2Y ø8/10	51.42	-436.71	SLD 15	225.11	479.47	1474.72	2.5	9.32	-59.4	-436.71	SLD 10	225.11	479.47	1474.72	2.5	8.07	Si

1.1.19.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	3.203	1961	1.347	0.368	1.298	SLV 7	Si
0.31	3.203	1961	1.347	0.368	1.298	SLV 7	Si
0.61	3.203	1961	1.347	0.368	1.298	SLV 7	Si
0.92	3.203	1961	1.347	0.368	1.298	SLV 7	Si
1.22	3.203	1961	1.347	0.368	1.298	SLV 7	Si
1.53	3.203	1961	1.347	0.368	1.298	SLV 7	Si
1.83	2.16	1961	1.347	0.368	1.298	SLV 7	Si
2.14	2.16	1961	1.347	0.368	1.298	SLV 7	Si
2.44	2.16	1961	1.347	0.368	1.298	SLV 7	Si
2.75	2.16	1961	1.347	0.368	1.298	SLV 7	Si
3.05	2.16	1961	1.347	0.368	1.298	SLV 7	Si
3.36	2.16	1961	1.347	0.368	1.298	SLV 7	Si
3.66	2.16	1961	1.347	0.368	1.298	SLV 7	Si
3.97	2.16	1961	1.347	0.368	1.298	SLV 7	Si
4.27	2.16	1961	1.347	0.368	1.298	SLV 7	Si
4.58	2.16	1961	1.347	0.368	1.298	SLV 7	Si
4.88	2.16	1961	1.347	0.368	1.298	SLV 7	Si
5.19	2.16	1961	1.347	0.368	1.298	SLV 7	Si
5.49	2.16	1961	1.347	0.368	1.298	SLV 7	Si
5.8	3.203	1961	1.347	0.368	1.298	SLV 7	Si
6.1	3.203	1961	1.347	0.368	1.298	SLV 7	Si

1.1.19.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	8.075	1961	3.374	0.368	3.05	SLD 7	Si
0	8.075	1961	3.374	0.368	3.05	SLD 7	Si
0.31	8.075	1961	3.374	0.368	3.05	SLD 7	Si
0.61	8.075	1961	3.374	0.368	3.05	SLD 7	Si
0.92	8.075	1961	3.374	0.368	3.05	SLD 7	Si
1.22	8.075	1961	3.374	0.368	3.05	SLD 7	Si
1.53	8.075	1961	3.374	0.368	3.05	SLD 7	Si
1.83	5.443	1961	3.374	0.368	3.05	SLD 7	Si
2.14	5.443	1961	3.374	0.368	3.05	SLD 7	Si
2.44	5.443	1961	3.374	0.368	3.05	SLD 7	Si
2.75	5.443	1961	3.374	0.368	3.05	SLD 7	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
3.05	5.443	1961	3.374	0.368	3.05	SLD 7	Si
3.36	5.443	1961	3.374	0.368	3.05	SLD 7	Si
3.66	5.443	1961	3.374	0.368	3.05	SLD 7	Si
3.97	5.443	1961	3.374	0.368	3.05	SLD 7	Si
4.27	5.443	1961	3.374	0.368	3.05	SLD 7	Si
4.58	5.443	1961	3.374	0.368	3.05	SLD 7	Si
4.88	5.443	1961	3.374	0.368	3.05	SLD 7	Si
5.19	5.443	1961	3.374	0.368	3.05	SLD 7	Si
5.49	5.443	1961	3.374	0.368	3.05	SLD 7	Si
5.8	8.075	1961	3.374	0.368	3.05	SLD 7	Si
6.1	8.075	1961	3.374	0.368	3.05	SLD 7	Si

1.1.19.4 Verifiche nodi trave colonna

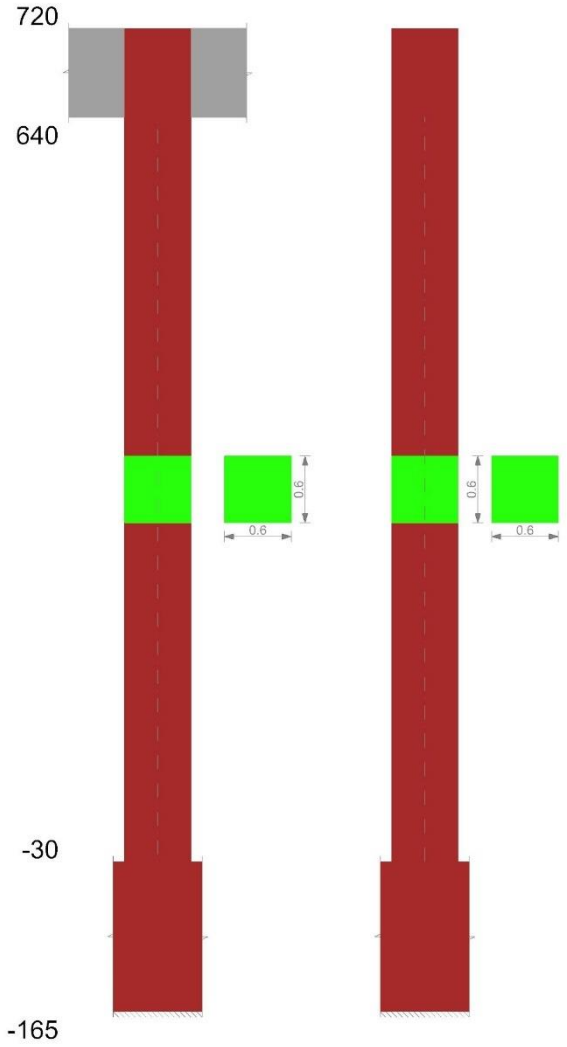
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.19.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.20 P29

Geometria



1.1.20.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.

Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.20.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.4	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.20.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-1.65	7.2	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-1.65	7.2	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-1.65	7.2	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-1.65	7.2	R 60x60_1	Armature LC2
p.1	0.2531	0.2531	0.026	0.0005309	-1.65	7.2	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-1.65	7.2	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-1.65	7.2	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-1.65	7.2	R 60x60_1	Armature LC2
p.2	-0.2131	-0.2531	0.026	0.0005309	-1.65	5.7	R 60x60_1	Armature LC2
p.2	0.2131	-0.2531	0.026	0.0005309	-1.65	5.7	R 60x60_1	Armature LC2
p.2	0.2131	0.2531	0.026	0.0005309	-1.65	5.7	R 60x60_1	Armature LC2
p.2	-0.2131	0.2531	0.026	0.0005309	-1.65	5.7	R 60x60_1	Armature LC2
p.3	0	-0.259	0.016	0.0002011	-1.65	7.2	R 60x60_1	Armature LC2
p.3	0	0.259	0.016	0.0002011	-1.65	7.2	R 60x60_1	Armature LC2
p.3	-0.259	0	0.016	0.0002011	-1.65	7.2	R 60x60_1	Armature LC2
p.3	0.259	0	0.016	0.0002011	-1.65	7.2	R 60x60_1	Armature LC2

1.1.20.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.20.3 Verifiche delle sezioni

1.1.20.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007166	2	0	1,2,3	0	0	-738.51	0	0	SLU 17	14.257	Si
0	0.007175	2	0	1,2,3	0	0	-734.96	0	0	SLU 17	14.326	Si
0.31	0.007175	2	0	1,2,3	0	0	-731.45	0	0	SLU 17	14.394	Si
0.61	0.007175	2	0	1,2,3	0	0	-727.88	0	0	SLU 17	14.465	Si
0.92	0.007175	2	0	1,2,3	0	0	-724.32	0	0	SLU 17	14.536	Si
1.22	0.007175	2	0	1,2,3	0	0	-720.76	0	0	SLU 17	14.608	Si
1.53	0.007175	2	0	1,2,3	0	0	-717.19	0	0	SLU 17	14.68	Si
1.83	0.007175	2	0	1,2,3	0	0	-713.63	0	0	SLU 17	14.754	Si
2.14	0.007175	2	0	1,2,3	0	0	-710.07	0	0	SLU 17	14.828	Si
2.44	0.007175	2	0	1,2,3	0	0	-706.5	0	0	SLU 17	14.902	Si
2.75	0.007175	2	0	1,2,3	0	0	-702.94	0	0	SLU 17	14.978	Si
3.05	0.007175	2	0	1,2,3	0	0	-699.38	0	0	SLU 17	15.054	Si
3.35	0.007175	2	0	1,2,3	0	0	-695.81	0	0	SLU 17	15.131	Si
3.66	0.007175	2	0	1,2,3	0	0	-692.25	0	0	SLU 17	15.209	Si
3.96	0.007175	2	0	1,2,3	0	0	-688.69	0	0	SLU 17	15.288	Si
4.27	0.007175	2	0	1,2,3	0	0	-685.12	0	0	SLU 17	15.368	Si
4.57	0.007175	2	0	1,2,3	0	0	-681.56	0	0	SLU 17	15.448	Si
4.88	0.007175	2	0	1,2,3	0	0	-678	0	0	SLU 17	15.529	Si
5.18	0.007175	2	0	1,2,3	0	0	-674.43	0	0	SLU 17	15.611	Si
5.49	0.007175	2	0	1,2,3	0	0	-670.87	0	0	SLU 17	15.694	Si
5.79	0.007033	2	0	1,2,3	0	0	-667.31	0	0	SLU 17	15.702	Si
6.1	0.006554	2	0	1,2,3	0	0	-663.74	0	0	SLU 17	15.513	Si
6.4	0.006594	3.2	0	1,2,3	0	0	-660.24	0	0	SLU 17	15.618	Si

1.1.20.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007166	2	0	1,2,3	-913.8671	219.519	-422.41	-890.9866	214.0228	SLV 8	0.975				No
0	0.007175	2	0	1,2,3	-873.8574	209.9141	-419.68	-895.0662	215.0088	SLV 8	1.024				Si
0.31	0.007175	2	0	1,2,3	-834.3285	200.4247	-416.97	-899.4836	216.0765	SLV 8	1.078				Si
0.61	0.007175	2	0	1,2,3	-794.2301	190.7986	-414.23	-904.4541	217.2778	SLV 8	1.139				Si
0.92	0.007175	2	0	1,2,3	-754.1317	181.1725	-411.49	-910.0174	218.6224	SLV 8	1.207				Si
1.22	0.007175	2	0	1,2,3	-714.0333	171.5463	-408.75	-916.2866	220.1376	SLV 8	1.283				Si
1.53	0.007175	2	0	1,2,3	-673.9348	161.9202	-406.01	-923.4049	221.8581	SLV 8	1.37				Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
1.83	0.007175	2	0	1,2,3	-633.8364	152.2941	-403.27	-931.5575	223.8285	SLV 8	1.47				Si
2.14	0.007175	2	0	1,2,3	-593.7379	142.6679	-400.53	-940.9234	226.0923	SLV 8	1.585				Si
2.44	0.007175	2	0	1,2,3	-553.6395	133.0418	-397.79	-951.8166	228.7254	SLV 8	1.719				Si
2.75	0.007175	2	0	1,2,3	-513.5411	123.4157	-395.05	-964.7295	231.8465	SLV 8	1.879				Si
3.05	0.007175	2	0	1,2,3	-473.4426	113.7895	-392.31	-980.207	235.5877	SLV 8	2.07				Si
3.35	0.007175	2	0	1,2,3	-433.3442	104.1634	-389.56	-999.0082	240.1326	SLV 8	2.305				Si
3.66	0.007175	2	0	1,2,3	-393.2458	94.5373	-386.82	-1022.2548	245.7526	SLV 8	2.6				Si
3.96	0.007175	2	0	1,2,3	-353.1474	84.9111	-384.08	-1051.4042	252.8007	SLV 8	2.977				Si
4.27	0.007175	2	0	1,2,3	-313.0489	75.285	-381.34	-1086.4039	261.2688	SLV 8	3.47				Si
4.57	0.007175	2	0	1,2,3	-272.9505	65.6589	-378.6	-1133.7755	272.7323	SLV 8	4.154				Si
4.88	0.007175	2	0	1,2,3	-232.8521	56.0327	-375.86	-1198.3545	288.3679	SLV 8	5.146				Si
5.18	0.007175	2	0	1,2,3	-192.7537	46.4066	-373.12	-1292.0051	311.0579	SLV 8	6.703				Si
5.49	0.007175	2	0	1,2,3	-152.6553	36.7805	-370.38	-1415.4412	341.0336	SLV 8	9.272				Si
5.79	0.007033	2	0	1,2,3	-112.5569	27.1543	-367.64	-1518.1466	366.2525	SLV 8	13.488				Si
6.1	0.006554	2	0	1,2,3	-72.4586	17.5282	-364.9	-1487.7606	359.8985	SLV 8	20.533				Si
6.4	0.006594	3.2	0	1,2,3	-33.0175	8.0601	-362.2	-1090.7006	266.257	SLV 8	33.034				Si

1.1.20.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007166	2	0	1,2,3	-362.6521	87.0995	-422.41	-1071.9244	257.4481	SLD 8	2.956	Si
0	0.007175	2	0	1,2,3	-346.775	83.2886	-419.68	-1084.3066	260.4292	SLD 8	3.127	Si
0.31	0.007175	2	0	1,2,3	-331.0886	79.5234	-416.97	-1097.8232	263.6836	SLD 8	3.316	Si
0.61	0.007175	2	0	1,2,3	-315.1763	75.704	-414.23	-1113.2662	267.4018	SLD 8	3.532	Si
0.92	0.007175	2	0	1,2,3	-299.2639	71.8846	-411.49	-1130.4645	271.5429	SLD 8	3.777	Si
1.22	0.007175	2	0	1,2,3	-283.3515	68.0652	-408.75	-1149.892	276.2209	SLD 8	4.058	Si
1.53	0.007175	2	0	1,2,3	-267.4392	64.2458	-406.01	-1171.1496	281.3403	SLD 8	4.379	Si
1.83	0.007175	2	0	1,2,3	-251.5268	60.4264	-403.27	-1195.4081	287.1828	SLD 8	4.753	Si
2.14	0.007175	2	0	1,2,3	-235.6145	56.607	-400.53	-1223.4204	293.9299	SLD 8	5.192	Si
2.44	0.007175	2	0	1,2,3	-219.7021	52.7876	-397.79	-1256.0433	301.7881	SLD 8	5.717	Si
2.75	0.007175	2	0	1,2,3	-203.7897	48.9682	-395.05	-1293.0758	310.7103	SLD 8	6.345	Si
3.05	0.007175	2	0	1,2,3	-187.8774	45.1488	-392.31	-1333.0702	320.3498	SLD 8	7.095	Si
3.35	0.007175	2	0	1,2,3	-171.965	41.3294	-389.56	-1379.7405	331.6012	SLD 8	8.023	Si
3.66	0.007175	2	0	1,2,3	-156.0526	37.51	-386.82	-1427.2552	343.0655	SLD 8	9.146	Si
3.96	0.007175	2	0	1,2,3	-140.1403	33.6906	-384.08	-1475.0355	354.6073	SLD 8	10.525	Si
4.27	0.007175	2	0	1,2,3	-124.2279	29.8712	-381.34	-1513.3715	363.8969	SLD 8	12.182	Si
4.57	0.007175	2	0	1,2,3	-108.3156	26.0518	-378.6	-1547.9303	372.3038	SLD 8	14.291	Si
4.88	0.007175	2	0	1,2,3	-92.4032	22.2323	-375.86	-1567.4705	377.1357	SLD 8	16.963	Si
5.18	0.007175	2	0	1,2,3	-76.4909	18.4129	-373.12	-1540.5159	370.8342	SLD 8	20.14	Si
5.49	0.007175	2	0	1,2,3	-60.5785	14.5935	-370.38	-1458.7714	351.4222	SLD 8	24.081	Si
5.79	0.007033	2	0	1,2,3	-44.6662	10.7741	-367.64	-1294.0664	312.1478	SLD 8	28.972	Si
6.1	0.006554	2	0	1,2,3	-28.7539	6.9547	-364.9	-993.5862	240.3198	SLD 8	34.555	Si
6.4	0.006594	3.2	0	1,2,3	13.0765	3.1986	-362.2	521.0961	127.4627	SLD 5	39.85	Si

1.1.20.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	0.978	895	0.976	0.278	0.979	SLV 7	No
0	1.021	1005	1.024	0.289	1.021	SLV 7	Si
0.31	1.068	1142	1.079	0.303	1.069	SLV 7	Si
0.61	1.123	1318	1.144	0.319	1.125	SLV 7	Si
0.92	1.182	1525	1.215	0.336	1.186	SLV 7	Si
1.22	1.246	1777	1.293	0.355	1.253	SLV 7	Si
1.53	1.32	1961	1.347	0.368	1.298	SLV 7	Si
1.83	1.402	1961	1.347	0.368	1.298	SLV 7	Si
2.14	1.496	1961	1.347	0.368	1.298	SLV 7	Si
2.44	1.604	1961	1.347	0.368	1.298	SLV 7	Si
2.75	1.727	1961	1.347	0.368	1.298	SLV 7	Si
3.05	1.871	1961	1.347	0.368	1.298	SLV 7	Si
3.35	2.043	1961	1.347	0.368	1.298	SLV 7	Si
3.66	2.251	1961	1.347	0.368	1.298	SLV 7	Si
3.96	2.506	1961	1.347	0.368	1.298	SLV 7	Si
4.27	2.822	1961	1.347	0.368	1.298	SLV 7	Si
4.57	3.238	1961	1.347	0.368	1.298	SLV 7	Si
4.88	3.789	1961	1.347	0.368	1.298	SLV 7	Si
5.18	4.575	1961	1.347	0.368	1.298	SLV 7	Si
5.49	5.771	1961	1.347	0.368	1.298	SLV 7	Si
5.79	7.699	1961	1.347	0.368	1.298	SLV 7	Si
6.1	11.254	1961	1.347	0.368	1.298	SLV 7	Si
6.4	24.704	1961	1.347	0.368	1.298	SLV 7	Si

1.1.20.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	2.465	896	2.447	0.278	2.302	SLD 7	Si
0	2.576	1007	2.567	0.29	2.401	SLD 7	Si
0.31	2.693	1144	2.705	0.303	2.513	SLD 7	Si
0.61	2.828	1316	2.865	0.319	2.643	SLD 7	Si
0.92	2.975	1521	3.04	0.336	2.784	SLD 7	Si
1.22	3.145	1784	3.246	0.356	2.948	SLD 7	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
1.53	3.326	1961	3.374	0.368	3.05	SLD 7	Si
1.83	3.537	1961	3.374	0.368	3.05	SLD 7	Si
2.14	3.771	1961	3.374	0.368	3.05	SLD 7	Si
2.44	4.042	1961	3.374	0.368	3.05	SLD 7	Si
2.75	4.35	1961	3.374	0.368	3.05	SLD 7	Si
3.05	4.719	1961	3.374	0.368	3.05	SLD 7	Si
3.35	5.156	1961	3.374	0.368	3.05	SLD 7	Si
3.66	5.676	1961	3.374	0.368	3.05	SLD 7	Si
3.96	6.318	1961	3.374	0.368	3.05	SLD 7	Si
4.27	7.111	1961	3.374	0.368	3.05	SLD 7	Si
4.57	8.163	1961	3.374	0.368	3.05	SLD 7	Si
4.88	9.555	1961	3.374	0.368	3.05	SLD 7	Si
5.18	11.532	1961	3.374	0.368	3.05	SLD 7	Si
5.49	14.564	1961	3.374	0.368	3.05	SLD 7	Si
5.79	19.406	1961	3.374	0.368	3.05	SLD 7	Si
6.1	28.337	1961	3.374	0.368	3.05	SLD 7	Si
6.4	62.277	1961	3.374	0.368	3.05	SLD 7	Si

1.1.20.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	0	-394.3	SLU 1	219.18	479.47	1468.59	2.5	1000	0	-394.3	SLU 1	219.18	479.47	1468.59	2.5	1000	Si
0	2X/2Y ø8/10	0	-391.57	SLU 1	218.8	479.47	1468.2	2.5	1000	0	-391.57	SLU 1	218.8	479.47	1468.2	2.5	1000	Si
0.31	2X/2Y ø8/14.7	0	-388.87	SLU 1	218.42	325.52	1467.81	2.5	1000	0	-388.87	SLU 1	218.42	325.52	1467.81	2.5	1000	Si
0.61	2X/2Y ø8/14.7	0	-386.12	SLU 1	218.04	325.52	1467.41	2.5	1000	0	-386.12	SLU 1	218.04	325.52	1467.41	2.5	1000	Si
0.92	2X/2Y ø8/14.7	0	-383.38	SLU 1	217.66	325.52	1467.01	2.5	1000	0	-383.38	SLU 1	217.66	325.52	1467.01	2.5	1000	Si
1.22	2X/2Y ø8/14.7	0	-380.64	SLU 1	217.28	325.52	1466.62	2.5	1000	0	-380.64	SLU 1	217.28	325.52	1466.62	2.5	1000	Si
1.53	2X/2Y ø8/14.7	0	-377.9	SLU 1	216.89	325.52	1466.22	2.5	1000	0	-377.9	SLU 1	216.89	325.52	1466.22	2.5	1000	Si
1.83	2X/2Y ø8/14.7	0	-375.16	SLU 1	216.51	325.52	1465.83	2.5	1000	0	-375.16	SLU 1	216.51	325.52	1465.83	2.5	1000	Si
2.14	2X/2Y ø8/14.7	0	-372.42	SLU 1	216.13	325.52	1465.43	2.5	1000	0	-372.42	SLU 1	216.13	325.52	1465.43	2.5	1000	Si
2.44	2X/2Y ø8/14.7	0	-369.68	SLU 1	215.74	325.52	1465.03	2.5	1000	0	-369.68	SLU 1	215.74	325.52	1465.03	2.5	1000	Si
2.75	2X/2Y ø8/14.7	0	-366.94	SLU 1	215.36	325.52	1464.64	2.5	1000	0	-366.94	SLU 1	215.36	325.52	1464.64	2.5	1000	Si
3.05	2X/2Y ø8/14.7	0	-364.2	SLU 1	214.98	325.52	1464.24	2.5	1000	0	-364.2	SLU 1	214.98	325.52	1464.24	2.5	1000	Si
3.35	2X/2Y ø8/14.7	0	-361.46	SLU 1	214.59	325.52	1463.84	2.5	1000	0	-361.46	SLU 1	214.59	325.52	1463.84	2.5	1000	Si
3.66	2X/2Y ø8/14.7	0	-358.72	SLU 1	214.21	325.52	1463.45	2.5	1000	0	-358.72	SLU 1	214.21	325.52	1463.45	2.5	1000	Si
3.96	2X/2Y ø8/14.7	0	-355.97	SLU 1	213.83	325.52	1463.05	2.5	1000	0	-355.97	SLU 1	213.83	325.52	1463.05	2.5	1000	Si
4.27	2X/2Y ø8/14.7	0	-353.23	SLU 1	213.45	325.52	1462.66	2.5	1000	0	-353.23	SLU 1	213.45	325.52	1462.66	2.5	1000	Si
4.57	2X/2Y ø8/14.7	0	-350.49	SLU 1	213.06	325.52	1462.26	2.5	1000	0	-350.49	SLU 1	213.06	325.52	1462.26	2.5	1000	Si
4.88	2X/2Y ø8/14.7	0	-347.75	SLU 1	212.68	325.52	1461.86	2.5	1000	0	-347.75	SLU 1	212.68	325.52	1461.86	2.5	1000	Si
5.18	2X/2Y ø8/14.7	0	-345.01	SLU 1	212.3	325.52	1461.47	2.5	1000	0	-345.01	SLU 1	212.3	325.52	1461.47	2.5	1000	Si
5.49	2X/2Y ø8/14.7	0	-342.27	SLU 1	211.91	325.52	1461.07	2.5	1000	0	-342.27	SLU 1	211.91	325.52	1461.07	2.5	1000	Si
5.79	2X/2Y ø8/10	0	-339.53	SLU 1	211.53	479.47	1460.67	2.5	1000	0	-339.53	SLU 1	211.53	479.47	1460.67	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-336.79	SLU 1	211.15	479.47	1460.28	2.5	1000	0	-336.79	SLU 1	211.15	479.47	1460.28	2.5	1000	Si
6.4	2X/2Y ø8/10	0	-334.09	SLU 1	210.77	479.47	1459.89	2.5	1000	0	-334.09	SLU 1	210.77	479.47	1459.89	2.5	1000	Si

1.1.20.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-105.37	-422.41	SLV 1	223.11	479.47	1472.66	2.5	4.55	131.67	-422.41	SLV 8	223.11	479.47	1472.66	2.5	3.64	Si
0	2X/2Y ø8/10	-105.37	-419.68	SLV 1	222.73	479.47	1472.26	2.5	4.55	131.67	-419.68	SLV 8	222.73	479.47	1472.26	2.5	3.64	Si
0.31	2X/2Y ø8/14.7	-105.37	-416.97	SLV 1	222.35	325.52	1471.87	2.5	3.09	131.67	-416.97	SLV 8	222.35	325.52	1471.87	2.5	2.47	Si
0.61	2X/2Y ø8/14.7	-105.37	-414.23	SLV 1	221.97	325.52	1471.47	2.5	3.09	131.67	-414.23	SLV 8	221.97	325.52	1471.47	2.5	2.47	Si
0.92	2X/2Y ø8/14.7	-105.37	-411.49	SLV 1	221.59	325.52	1471.08	2.5	3.09	131.67	-411.49	SLV 8	221.59	325.52	1471.08	2.5	2.47	Si
1.22	2X/2Y ø8/14.7	-105.37	-408.75	SLV 1	221.2	325.52	1470.68	2.5	3.09	131.67	-408.75	SLV 8	221.2	325.52	1470.68	2.5	2.47	Si
1.53	2X/2Y ø8/14.7	-105.37	-406.01	SLV 1	220.82	325.52	1470.29	2.5	3.09	131.67	-406.01	SLV 8	220.82	325.52	1470.29	2.5	2.47	Si
1.83	2X/2Y ø8/14.7	-105.37	-403.27	SLV 1	220.44	325.52	1469.89	2.5	3.09	131.67	-403.27	SLV 8	220.44	325.52	1469.89	2.5	2.47	Si
2.14	2X/2Y ø8/14.7	-105.37	-400.53	SLV 1	220.05	325.52	1469.49	2.5	3.09	131.67	-400.53	SLV 8	220.05	325.52	1469.49	2.5	2.47	Si
2.44	2X/2Y ø8/14.7	-105.37	-397.79	SLV 1	219.67	325.52	1469.1	2.5	3.09	131.67	-397.79	SLV 8	219.67	325.52	1469.1	2.5	2.47	Si
2.75	2X/2Y ø8/14.7	-105.37	-395.05	SLV 1	219.29	325.52	1468.7	2.5	3.09	131.67	-395.05	SLV 8	219.29	325.52	1468.7	2.5	2.47	Si
3.05	2X/2Y ø8/14.7	-105.37	-392.31	SLV 1	218.91	325.52	1468.3	2.5	3.09	131.67	-392.31	SLV 8	218.91	325.52	1468.3	2.5	2.47	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
3.35	2X/2Y ø8/14.7	-105.37	-389.56	SLV 1	218.52	325.52	1467.91	2.5	3.09	131.67	-389.56	SLV 8	218.52	325.52	1467.91	2.5	2.47	Si
3.66	2X/2Y ø8/14.7	-105.37	-386.82	SLV 1	218.14	325.52	1467.51	2.5	3.09	131.67	-386.82	SLV 8	218.14	325.52	1467.51	2.5	2.47	Si
3.96	2X/2Y ø8/14.7	-105.37	-384.08	SLV 1	217.76	325.52	1467.12	2.5	3.09	131.67	-384.08	SLV 8	217.76	325.52	1467.12	2.5	2.47	Si
4.27	2X/2Y ø8/14.7	-105.37	-381.34	SLV 1	217.37	325.52	1466.72	2.5	3.09	131.67	-381.34	SLV 8	217.37	325.52	1466.72	2.5	2.47	Si
4.57	2X/2Y ø8/14.7	-105.37	-378.6	SLV 1	216.99	325.52	1466.32	2.5	3.09	131.67	-378.6	SLV 8	216.99	325.52	1466.32	2.5	2.47	Si
4.88	2X/2Y ø8/14.7	-105.37	-375.86	SLV 1	216.61	325.52	1465.93	2.5	3.09	131.67	-375.86	SLV 8	216.61	325.52	1465.93	2.5	2.47	Si
5.18	2X/2Y ø8/14.7	-105.37	-373.12	SLV 1	216.22	325.52	1465.53	2.5	3.09	131.67	-373.12	SLV 8	216.22	325.52	1465.53	2.5	2.47	Si
5.49	2X/2Y ø8/14.7	-105.37	-370.38	SLV 1	215.84	325.52	1465.13	2.5	3.09	131.67	-370.38	SLV 8	215.84	325.52	1465.13	2.5	2.47	Si
5.79	2X/2Y ø8/10	-105.37	-367.64	SLV 1	215.46	479.47	1464.74	2.5	4.55	131.67	-367.64	SLV 8	215.46	479.47	1464.74	2.5	3.64	Si
6.1	2X/2Y ø8/10	-105.37	-364.9	SLV 1	215.08	479.47	1464.34	2.5	4.55	131.67	-364.9	SLV 8	215.08	479.47	1464.34	2.5	3.64	Si
6.4	2X/2Y ø8/10	-105.37	-362.2	SLV 1	214.7	479.47	1463.95	2.5	4.55	131.67	-362.2	SLV 8	214.7	479.47	1463.95	2.5	3.64	Si

1.1.20.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	6.8	X	7.625	0.172	0.6	0.0199	0.008374	0.023198	0	223.113	2135.351	479.475	191.79	273.832	479.475	-105.37	-422.411	SLV 2	Si
-0.3	-0.975	6.8	Y	7.62	0.172	0.6	0.0199	0.009563	0.023198	0	223.113	2135.351	479.475	191.79	273.838	479.475	131.667	-422.411	SLV 8	Si

1.1.20.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-41.81	-422.41	SLD 1	223.11	479.47	1472.66	2.5	11.47	52.25	-422.41	SLD 8	223.11	479.47	1472.66	2.5	9.18	Si
0	2X/2Y ø8/10	-41.81	-419.68	SLD 1	222.73	479.47	1472.26	2.5	11.47	52.25	-419.68	SLD 8	222.73	479.47	1472.26	2.5	9.18	Si
0.31	2X/2Y ø8/14.7	-41.81	-416.97	SLD 1	222.35	325.52	1471.87	2.5	7.79	52.25	-416.97	SLD 8	222.35	325.52	1471.87	2.5	6.23	Si
0.61	2X/2Y ø8/14.7	-41.81	-414.23	SLD 1	221.97	325.52	1471.47	2.5	7.79	52.25	-414.23	SLD 8	221.97	325.52	1471.47	2.5	6.23	Si
0.92	2X/2Y ø8/14.7	-41.81	-411.49	SLD 1	221.59	325.52	1471.08	2.5	7.79	52.25	-411.49	SLD 8	221.59	325.52	1471.08	2.5	6.23	Si
1.22	2X/2Y ø8/14.7	-41.81	-408.75	SLD 1	221.2	325.52	1470.68	2.5	7.79	52.25	-408.75	SLD 8	221.2	325.52	1470.68	2.5	6.23	Si
1.53	2X/2Y ø8/14.7	-41.81	-406.01	SLD 1	220.82	325.52	1470.29	2.5	7.79	52.25	-406.01	SLD 8	220.82	325.52	1470.29	2.5	6.23	Si
1.83	2X/2Y ø8/14.7	-41.81	-403.27	SLD 1	220.44	325.52	1469.89	2.5	7.79	52.25	-403.27	SLD 8	220.44	325.52	1469.89	2.5	6.23	Si
2.14	2X/2Y ø8/14.7	-41.81	-400.53	SLD 1	220.05	325.52	1469.49	2.5	7.79	52.25	-400.53	SLD 8	220.05	325.52	1469.49	2.5	6.23	Si
2.44	2X/2Y ø8/14.7	-41.81	-397.79	SLD 1	219.67	325.52	1469.1	2.5	7.79	52.25	-397.79	SLD 8	219.67	325.52	1469.1	2.5	6.23	Si
2.75	2X/2Y ø8/14.7	-41.81	-395.05	SLD 1	219.29	325.52	1468.7	2.5	7.79	52.25	-395.05	SLD 8	219.29	325.52	1468.7	2.5	6.23	Si
3.05	2X/2Y ø8/14.7	-41.81	-392.31	SLD 1	218.91	325.52	1468.3	2.5	7.79	52.25	-392.31	SLD 8	218.91	325.52	1468.3	2.5	6.23	Si
3.35	2X/2Y ø8/14.7	-41.81	-389.56	SLD 1	218.52	325.52	1467.91	2.5	7.79	52.25	-389.56	SLD 8	218.52	325.52	1467.91	2.5	6.23	Si
3.66	2X/2Y ø8/14.7	-41.81	-386.82	SLD 1	218.14	325.52	1467.51	2.5	7.79	52.25	-386.82	SLD 8	218.14	325.52	1467.51	2.5	6.23	Si
3.96	2X/2Y ø8/14.7	-41.81	-384.08	SLD 1	217.76	325.52	1467.12	2.5	7.79	52.25	-384.08	SLD 8	217.76	325.52	1467.12	2.5	6.23	Si
4.27	2X/2Y ø8/14.7	-41.81	-381.34	SLD 1	217.37	325.52	1466.72	2.5	7.79	52.25	-381.34	SLD 8	217.37	325.52	1466.72	2.5	6.23	Si
4.57	2X/2Y ø8/14.7	-41.81	-378.6	SLD 1	216.99	325.52	1466.32	2.5	7.79	52.25	-378.6	SLD 8	216.99	325.52	1466.32	2.5	6.23	Si
4.88	2X/2Y ø8/14.7	-41.81	-375.86	SLD 1	216.61	325.52	1465.93	2.5	7.79	52.25	-375.86	SLD 8	216.61	325.52	1465.93	2.5	6.23	Si
5.18	2X/2Y ø8/14.7	-41.81	-373.12	SLD 1	216.22	325.52	1465.53	2.5	7.79	52.25	-373.12	SLD 8	216.22	325.52	1465.53	2.5	6.23	Si
5.49	2X/2Y ø8/14.7	-41.81	-370.38	SLD 1	215.84	325.52	1465.13	2.5	7.79	52.25	-370.38	SLD 8	215.84	325.52	1465.13	2.5	6.23	Si
5.79	2X/2Y ø8/10	-41.81	-367.64	SLD 1	215.46	479.47	1464.74	2.5	11.47	52.25	-367.64	SLD 8	215.46	479.47	1464.74	2.5	9.18	Si
6.1	2X/2Y ø8/10	-41.81	-364.9	SLD 1	215.08	479.47	1464.34	2.5	11.47	52.25	-364.9	SLD 8	215.08	479.47	1464.34	2.5	9.18	Si
6.4	2X/2Y ø8/10	-41.81	-362.2	SLD 1	214.7	479.47	1463.95	2.5	11.47	52.25	-362.2	SLD 8	214.7	479.47	1463.95	2.5	9.18	Si

1.1.20.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	3.643	1961	1.347	0.368	1.298	SLV 7	Si
0.31	2.471	1961	1.347	0.368	1.298	SLV 7	Si
0.61	2.471	1961	1.347	0.368	1.298	SLV 7	Si
0.92	2.471	1961	1.347	0.368	1.298	SLV 7	Si
1.22	2.471	1961	1.347	0.368	1.298	SLV 7	Si
1.53	2.471	1961	1.347	0.368	1.298	SLV 7	Si
1.83	2.471	1961	1.347	0.368	1.298	SLV 7	Si
2.14	2.471	1961	1.347	0.368	1.298	SLV 7	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
2.44	2.471	1961	1.347	0.368	1.298	SLV 7	Si
2.75	2.471	1961	1.347	0.368	1.298	SLV 7	Si
3.05	2.471	1961	1.347	0.368	1.298	SLV 7	Si
3.35	2.471	1961	1.347	0.368	1.298	SLV 7	Si
3.66	2.471	1961	1.347	0.368	1.298	SLV 7	Si
3.96	2.471	1961	1.347	0.368	1.298	SLV 7	Si
4.27	2.471	1961	1.347	0.368	1.298	SLV 7	Si
4.57	2.471	1961	1.347	0.368	1.298	SLV 7	Si
4.88	2.471	1961	1.347	0.368	1.298	SLV 7	Si
5.18	2.471	1961	1.347	0.368	1.298	SLV 7	Si
5.49	2.471	1961	1.347	0.368	1.298	SLV 7	Si
5.79	3.643	1961	1.347	0.368	1.298	SLV 7	Si
6.1	3.643	1961	1.347	0.368	1.298	SLV 7	Si
6.4	3.643	1961	1.347	0.368	1.298	SLV 7	Si

1.1.20.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	9.174	1961	3.374	0.368	3.05	SLD 7	Si
0	9.174	1961	3.374	0.368	3.05	SLD 7	Si
0.31	6.229	1961	3.374	0.368	3.05	SLD 7	Si
0.61	6.229	1961	3.374	0.368	3.05	SLD 7	Si
0.92	6.229	1961	3.374	0.368	3.05	SLD 7	Si
1.22	6.229	1961	3.374	0.368	3.05	SLD 7	Si
1.53	6.229	1961	3.374	0.368	3.05	SLD 7	Si
1.83	6.229	1961	3.374	0.368	3.05	SLD 7	Si
2.14	6.229	1961	3.374	0.368	3.05	SLD 7	Si
2.44	6.229	1961	3.374	0.368	3.05	SLD 7	Si
2.75	6.229	1961	3.374	0.368	3.05	SLD 7	Si
3.05	6.229	1961	3.374	0.368	3.05	SLD 7	Si
3.35	6.229	1961	3.374	0.368	3.05	SLD 7	Si
3.66	6.229	1961	3.374	0.368	3.05	SLD 7	Si
3.96	6.229	1961	3.374	0.368	3.05	SLD 7	Si
4.27	6.229	1961	3.374	0.368	3.05	SLD 7	Si
4.57	6.229	1961	3.374	0.368	3.05	SLD 7	Si
4.88	6.229	1961	3.374	0.368	3.05	SLD 7	Si
5.18	6.229	1961	3.374	0.368	3.05	SLD 7	Si
5.49	6.229	1961	3.374	0.368	3.05	SLD 7	Si
5.79	9.174	1961	3.374	0.368	3.05	SLD 7	Si
6.1	9.174	1961	3.374	0.368	3.05	SLD 7	Si
6.4	9.174	1961	3.374	0.368	3.05	SLD 7	Si

1.1.20.4 Verifiche nodi trave colonna

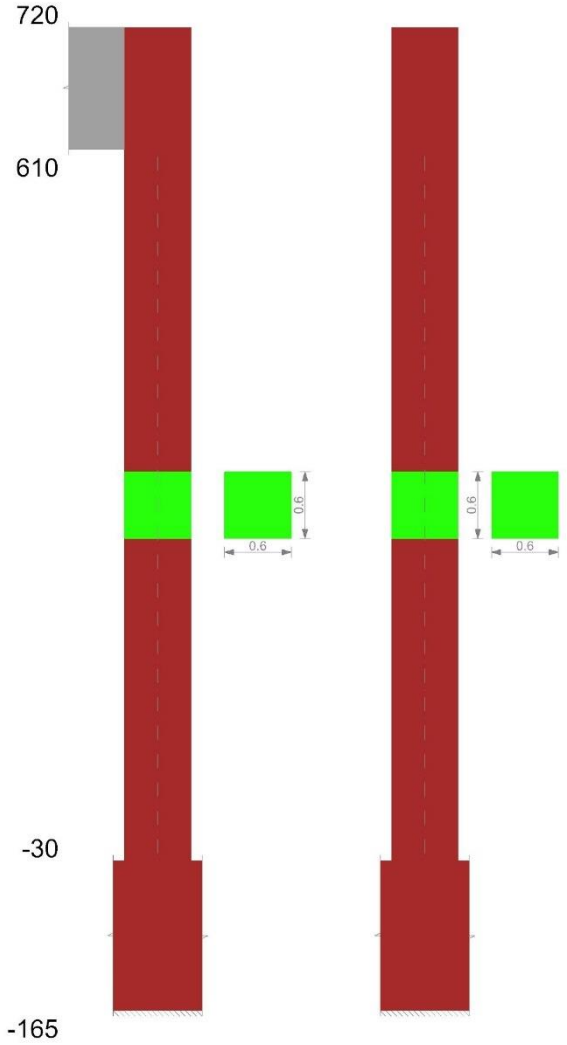
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.20.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.21 P31

Geometria



1.1.21.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.21.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.1	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.21.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	-0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.1	-0.2531	0.2131	0.026	0.0005309	-1.75	-0.3	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	-0.2531	-0.2131	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	0.2531	-0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	0.2531	-0.2131	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.2	0.2531	0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	0.2531	0.2131	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	-0.2531	0.2531	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.2	-0.2531	0.2131	0.026	0.0005309	-0.299	6.35	R 60x60_1	Armature LC2
p.3	0	-0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0	0.259	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	0	-0.259	0.016	0.0002011	-0.299	6.35	R 60x60_1	Armature LC2
p.4	0	0.259	0.016	0.0002011	-0.299	6.35	R 60x60_1	Armature LC2
p.3	-0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.3	0.259	0	0.016	0.0002011	-1.75	-0.3	R 60x60_1	Armature LC2
p.4	-0.259	0	0.016	0.0002011	-0.299	6.35	R 60x60_1	Armature LC2
p.4	0.259	0	0.016	0.0002011	-0.299	6.35	R 60x60_1	Armature LC2
p.5	-0.2152	-0.2552	0.02	0.0003142	-1.75	-0.3	R 60x60_1	Armature LC2
p.5	0.2152	-0.2552	0.02	0.0003142	-1.75	-0.3	R 60x60_1	Armature LC2
p.5	0.2152	0.2552	0.02	0.0003142	-1.75	-0.3	R 60x60_1	Armature LC2
p.5	-0.2152	0.2552	0.02	0.0003142	-1.75	-0.3	R 60x60_1	Armature LC2
p.6	-0.2152	-0.2552	0.02	0.0003142	-0.299	6.35	R 60x60_1	Armature LC2
p.6	0.2152	-0.2552	0.02	0.0003142	-0.299	6.35	R 60x60_1	Armature LC2
p.6	0.2152	0.2552	0.02	0.0003142	-0.299	6.35	R 60x60_1	Armature LC2
p.6	-0.2152	0.2552	0.02	0.0003142	-0.299	6.35	R 60x60_1	Armature LC2

1.1.21.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.21.3 Verifiche delle sezioni

1.1.21.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.006308	3.5	0	1,2,3,4,5,6	0	0	-549.4	0	0	SLU 17	18.572	Si
0	0.006308	3.5	0	1,2,3,4,5,6	0	0	-545.84	0	0	SLU 17	18.693	Si
0.31	0.006308	3.3	0	1,2,4,5,6	0	0	-542.33	0	0	SLU 17	18.814	Si
0.61	0.006308	2.9	0	1,2,4,6	0	0	-538.76	0	0	SLU 17	18.939	Si
0.92	0.006308	2.9	0	1,2,4,6	0	0	-535.2	0	0	SLU 17	19.065	Si
1.22	0.006308	1.8	0	2,4,6	0	0	-531.63	0	0	SLU 17	19.193	Si
1.53	0.006308	1.8	0	2,4,6	0	0	-528.06	0	0	SLU 17	19.322	Si
1.83	0.006308	1.8	0	2,4,6	0	0	-524.5	0	0	SLU 17	19.454	Si
2.14	0.006308	1.8	0	2,4,6	0	0	-520.93	0	0	SLU 17	19.587	Si
2.44	0.006308	1.8	0	2,4,6	0	0	-517.37	0	0	SLU 17	19.722	Si
2.75	0.006308	1.8	0	2,4,6	0	0	-513.8	0	0	SLU 17	19.859	Si
3.05	0.006308	1.8	0	2,4,6	0	0	-510.24	0	0	SLU 17	19.997	Si
3.36	0.006308	1.8	0	2,4,6	0	0	-506.67	0	0	SLU 17	20.138	Si
3.66	0.006308	1.8	0	2,4,6	0	0	-503.1	0	0	SLU 17	20.281	Si
3.97	0.006308	1.8	0	2,4,6	0	0	-499.54	0	0	SLU 17	20.426	Si
4.27	0.006308	1.8	0	2,4,6	0	0	-495.97	0	0	SLU 17	20.573	Si
4.58	0.006308	1.8	0	2,4,6	0	0	-492.41	0	0	SLU 17	20.722	Si
4.88	0.006308	1.8	0	2,4,6	0	0	-488.84	0	0	SLU 17	20.873	Si
5.19	0.006308	1.8	0	2,4,6	0	0	-485.28	0	0	SLU 17	21.026	Si
5.49	0.006308	1.8	0	2,4,6	0	0	-481.71	0	0	SLU 17	21.182	Si
5.8	0.006308	1.8	0	2,4,6	0	0	-478.14	0	0	SLU 17	21.34	Si
6.1	0.006308	1.8	0	2,4,6	0	0	-474.64	0	0	SLU 17	21.497	Si

1.1.21.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.006308	3.5	0	1,2,3,4,5,6	128.5761	672.1357	-313.72	153.422	802.0189	SLV 1	1.193				Si
0	0.006308	3.5	0	1,2,3,4,5,6	122.9562	642.7271	-310.99	154.1209	805.634	SLV 1	1.253				Si
0.31	0.006308	3.3	0	1,2,4,5,6	117.3958	613.63	-308.28	154.8854	809.5888	SLV 1	1.319				Si
0.61	0.006308	2.9	0	1,2,4,6	111.7595	584.1353	-305.54	155.7471	814.0458	SLV 1	1.394				Si
0.92	0.006308	2.9	0	1,2,4,6	106.1232	554.6405	-302.8	156.7114	819.0343	SLV 1	1.477				Si
1.22	0.006308	1.8	0	2,4,6	100.4868	525.1457	-300.05	157.7981	824.6555	SLV 1	1.57				Si
1.53	0.006308	1.8	0	2,4,6	94.8505	495.6509	-297.31	159.0288	831.0211	SLV 1	1.677				Si
1.83	0.006308	1.8	0	2,4,6	89.2141	466.1561	-294.57	160.4267	838.2513	SLV 1	1.798				Si
2.14	0.006308	1.8	0	2,4,6	83.5778	436.6613	-291.82	162.0432	846.6122	SLV 1	1.939				Si
2.44	0.006308	1.8	0	2,4,6	77.9415	407.1665	-289.08	163.9339	856.3913	SLV 1	2.103				Si
2.75	0.006308	1.8	0	2,4,6	72.3051	377.6717	-286.34	166.1751	867.9831	SLV 1	2.298				Si
3.05	0.006308	1.8	0	2,4,6	66.6688	348.1769	-283.6	168.8451	881.7915	SLV 1	2.533				Si
3.36	0.006308	1.8	0	2,4,6	61.0325	318.6821	-280.85	172.1186	898.7204	SLV 1	2.82				Si
3.66	0.006308	1.8	0	2,4,6	55.3961	289.1873	-278.11	176.2011	919.8316	SLV 1	3.181				Si
3.97	0.006308	1.8	0	2,4,6	49.7598	259.6925	-275.37	181.4489	946.9672	SLV 1	3.646				Si
4.27	0.006308	1.8	0	2,4,6	44.1235	230.1977	-272.62	188.1974	981.8488	SLV 1	4.265				Si
4.58	0.006308	1.8	0	2,4,6	38.4872	200.7029	-269.88	197.3977	1029.3885	SLV 1	5.129				Si
4.88	0.006308	1.8	0	2,4,6	32.8509	171.2081	-267.14	209.6904	1092.8367	SLV 1	6.383				Si
5.19	0.006308	1.8	0	2,4,6	27.2147	141.7133	-264.4	227.7461	1185.9287	SLV 1	8.369				Si
5.49	0.006308	1.8	0	2,4,6	21.5785	112.2185	-261.65	253.9024	1320.4159	SLV 1	11.766				Si
5.8	0.006308	1.8	0	2,4,6	15.9424	82.7237	-258.91	285.879	1483.404	SLV 1	17.932				Si
6.1	0.006308	1.8	0	2,4,6	10.399	53.7128	-256.21	296.147	1529.6523	SLV 1	28.478				Si

1.1.21.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.006308	3.5	0	1,2,3,4,5,6	51.0782	266.6966	-313.72	187.6053	979.5501	SLD 1	3.673	Si
0	0.006308	3.5	0	1,2,3,4,5,6	48.8457	255.0276	-310.99	190.0228	992.1257	SLD 1	3.89	Si
0.31	0.006308	3.3	0	1,2,4,5,6	46.6368	243.4821	-308.28	192.6996	1006.0499	SLD 1	4.132	Si
0.61	0.006308	2.9	0	1,2,4,6	44.3977	231.7789	-305.54	195.7655	1021.9978	SLD 1	4.409	Si
0.92	0.006308	2.9	0	1,2,4,6	42.1586	220.0757	-302.8	198.9034	1038.3132	SLD 1	4.718	Si
1.22	0.006308	1.8	0	2,4,6	39.9195	208.3724	-300.05	202.5068	1057.0491	SLD 1	5.073	Si
1.53	0.006308	1.8	0	2,4,6	37.6804	196.6692	-297.31	206.5884	1078.2693	SLD 1	5.483	Si
1.83	0.006308	1.8	0	2,4,6	35.4413	184.966	-294.57	211.2424	1102.4623	SLD 1	5.96	Si
2.14	0.006308	1.8	0	2,4,6	33.2022	173.2627	-291.82	216.5857	1130.2344	SLD 1	6.523	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
2.44	0.006308	1.8	0	2,4,6	30.9631	161.5595	-289.08	222.8028	1162.5435	SLD 1	7.196	Si
2.75	0.006308	1.8	0	2,4,6	28.724	149.8563	-286.34	229.8264	1199.0309	SLD 1	8.001	Si
3.05	0.006308	1.8	0	2,4,6	26.4849	138.153	-283.6	238.0912	1241.9551	SLD 1	8.99	Si
3.36	0.006308	1.8	0	2,4,6	24.2458	126.4498	-280.85	247.3291	1289.9038	SLD 1	10.201	Si
3.66	0.006308	1.8	0	2,4,6	22.0067	114.7466	-278.11	258.2983	1346.8115	SLD 1	11.737	Si
3.97	0.006308	1.8	0	2,4,6	19.7676	103.0433	-275.37	269.6712	1405.7265	SLD 1	13.642	Si
4.27	0.006308	1.8	0	2,4,6	17.5285	91.3401	-272.62	280.9415	1463.9718	SLD 1	16.028	Si
4.58	0.006308	1.8	0	2,4,6	15.2894	79.6369	-269.88	290.7484	1514.4006	SLD 1	19.016	Si
4.88	0.006308	1.8	0	2,4,6	13.0503	67.9336	-267.14	296.8232	1545.1164	SLD 1	22.745	Si
5.19	0.006308	1.8	0	2,4,6	10.8113	56.2304	-264.4	295.0601	1534.6354	SLD 1	27.292	Si
5.49	0.006308	1.8	0	2,4,6	8.5722	44.5271	-261.65	280.7094	1458.1056	SLD 1	32.746	Si
5.8	0.006308	1.8	0	2,4,6	6.3332	32.8239	-258.91	252.1549	1306.8746	SLD 1	39.815	Si
6.1	0.006308	1.8	0	2,4,6	4.1311	21.3127	-256.21	199.6463	1030.0042	SLD 1	48.328	Si

1.1.21.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	1.172	1558	1.225	0.339	1.195	SLV 1	Si
0	1.225	1793	1.298	0.356	1.257	SLV 1	Si
0.31	1.281	1961	1.347	0.368	1.298	SLV 1	Si
0.61	1.346	1961	1.347	0.368	1.298	SLV 1	Si
0.92	1.416	1961	1.347	0.368	1.298	SLV 1	Si
1.22	1.494	1961	1.347	0.368	1.298	SLV 1	Si
1.53	1.582	1961	1.347	0.368	1.298	SLV 1	Si
1.83	1.68	1961	1.347	0.368	1.298	SLV 1	Si
2.14	1.793	1961	1.347	0.368	1.298	SLV 1	Si
2.44	1.922	1961	1.347	0.368	1.298	SLV 1	Si
2.75	2.069	1961	1.347	0.368	1.298	SLV 1	Si
3.05	2.242	1961	1.347	0.368	1.298	SLV 1	Si
3.36	2.447	1961	1.347	0.368	1.298	SLV 1	Si
3.66	2.693	1961	1.347	0.368	1.298	SLV 1	Si
3.97	2.998	1961	1.347	0.368	1.298	SLV 1	Si
4.27	3.379	1961	1.347	0.368	1.298	SLV 1	Si
4.58	3.871	1961	1.347	0.368	1.298	SLV 1	Si
4.88	4.541	1961	1.347	0.368	1.298	SLV 1	Si
5.19	5.478	1961	1.347	0.368	1.298	SLV 1	Si
5.49	6.906	1961	1.347	0.368	1.298	SLV 1	Si
5.8	9.364	1961	1.347	0.368	1.298	SLV 1	Si
6.1	14.418	1961	1.347	0.368	1.298	SLV 1	Si

1.1.21.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	2.954	1961	3.374	0.368	3.05	SLD 1	Si
0	3.086	1961	3.374	0.368	3.05	SLD 1	Si
0.31	3.232	1961	3.374	0.368	3.05	SLD 1	Si
0.61	3.391	1961	3.374	0.368	3.05	SLD 1	Si
0.92	3.566	1961	3.374	0.368	3.05	SLD 1	Si
1.22	3.766	1961	3.374	0.368	3.05	SLD 1	Si
1.53	3.988	1961	3.374	0.368	3.05	SLD 1	Si
1.83	4.233	1961	3.374	0.368	3.05	SLD 1	Si
2.14	4.514	1961	3.374	0.368	3.05	SLD 1	Si
2.44	4.842	1961	3.374	0.368	3.05	SLD 1	Si
2.75	5.211	1961	3.374	0.368	3.05	SLD 1	Si
3.05	5.648	1961	3.374	0.368	3.05	SLD 1	Si
3.36	6.168	1961	3.374	0.368	3.05	SLD 1	Si
3.66	6.797	1961	3.374	0.368	3.05	SLD 1	Si
3.97	7.563	1961	3.374	0.368	3.05	SLD 1	Si
4.27	8.515	1961	3.374	0.368	3.05	SLD 1	Si
4.58	9.76	1961	3.374	0.368	3.05	SLD 1	Si
4.88	11.43	1961	3.374	0.368	3.05	SLD 1	Si
5.19	13.803	1961	3.374	0.368	3.05	SLD 1	Si
5.49	17.408	1961	3.374	0.368	3.05	SLD 1	Si
5.8	23.584	1961	3.374	0.368	3.05	SLD 1	Si
6.1	36.314	1961	3.374	0.368	3.05	SLD 1	Si

1.1.21.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	0	-310.88	SLU 1	207.53	479.47	1456.53	2.5	1000	0	-310.88	SLU 1	207.53	479.47	1456.53	2.5	1000	Si
0	2X/2Y ø8/10	0	-308.14	SLU 1	207.14	479.47	1456.14	2.5	1000	0	-308.14	SLU 1	207.14	479.47	1456.14	2.5	1000	Si
0.31	2X/2Y ø8/14.8	0	-305.44	SLU 1	206.77	323.12	1455.75	2.5	1000	0	-305.44	SLU 1	206.77	323.12	1455.75	2.5	1000	Si
0.61	2X/2Y ø8/14.8	0	-302.69	SLU 1	206.38	323.12	1455.35	2.5	1000	0	-302.69	SLU 1	206.38	323.12	1455.35	2.5	1000	Si
0.92	2X/2Y ø8/14.8	0	-299.95	SLU 1	206	323.12	1454.95	2.5	1000	0	-299.95	SLU 1	206	323.12	1454.95	2.5	1000	Si
1.22	2X/2Y ø8/14.8	0	-297.21	SLU 1	205.62	323.12	1454.56	2.5	1000	0	-297.21	SLU 1	205.62	323.12	1454.56	2.5	1000	Si
1.53	2X/2Y ø8/14.8	0	-294.46	SLU 1	205.23	323.12	1454.16	2.5	1000	0	-294.46	SLU 1	205.23	323.12	1454.16	2.5	1000	Si
1.83	2X/2Y ø8/14.8	0	-291.72	SLU 1	204.85	323.12	1453.76	2.5	1000	0	-291.72	SLU 1	204.85	323.12	1453.76	2.5	1000	Si
2.14	2X/2Y ø8/14.8	0	-288.98	SLU 1	204.47	323.12	1453.37	2.5	1000	0	-288.98	SLU 1	204.47	323.12	1453.37	2.5	1000	Si
2.44	2X/2Y ø8/14.8	0	-286.24	SLU 1	204.08	323.12	1452.97	2.5	1000	0	-286.24	SLU 1	204.08	323.12	1452.97	2.5	1000	Si
2.75	2X/2Y ø8/14.8	0	-283.49	SLU 1	203.7	323.12	1452.57	2.5	1000	0	-283.49	SLU 1	203.7	323.12	1452.57	2.5	1000	Si
3.05	2X/2Y ø8/14.8	0	-280.75	SLU 1	203.32	323.12	1452.18	2.5	1000	0	-280.75	SLU 1	203.32	323.12	1452.18	2.5	1000	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
3.36	2X/2Y ø8/14.8	0	-278.01	SLU 1	202.93	323.12	1451.78	2.5	1000	0	-278.01	SLU 1	202.93	323.12	1451.78	2.5	1000	Si
3.66	2X/2Y ø8/14.8	0	-275.26	SLU 1	202.55	323.12	1451.38	2.5	1000	0	-275.26	SLU 1	202.55	323.12	1451.38	2.5	1000	Si
3.97	2X/2Y ø8/14.8	0	-272.52	SLU 1	202.17	323.12	1450.99	2.5	1000	0	-272.52	SLU 1	202.17	323.12	1450.99	2.5	1000	Si
4.27	2X/2Y ø8/14.8	0	-269.78	SLU 1	201.78	323.12	1450.59	2.5	1000	0	-269.78	SLU 1	201.78	323.12	1450.59	2.5	1000	Si
4.58	2X/2Y ø8/14.8	0	-267.04	SLU 1	201.4	323.12	1450.19	2.5	1000	0	-267.04	SLU 1	201.4	323.12	1450.19	2.5	1000	Si
4.88	2X/2Y ø8/10	0	-264.29	SLU 1	201.02	479.47	1449.8	2.5	1000	0	-264.29	SLU 1	201.02	479.47	1449.8	2.5	1000	Si
5.19	2X/2Y ø8/10	0	-261.55	SLU 1	200.63	479.47	1449.4	2.5	1000	0	-261.55	SLU 1	200.63	479.47	1449.4	2.5	1000	Si
5.49	2X/2Y ø8/10	0	-258.81	SLU 1	200.25	479.47	1449	2.5	1000	0	-258.81	SLU 1	200.25	479.47	1449	2.5	1000	Si
5.8	2X/2Y ø8/10	0	-256.06	SLU 1	199.87	479.47	1448.61	2.5	1000	0	-256.06	SLU 1	199.87	479.47	1448.61	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-253.37	SLU 1	199.49	479.47	1448.22	2.5	1000	0	-253.37	SLU 1	199.49	479.47	1448.22	2.5	1000	Si

1.1.21.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-96.78	-313.72	SLV 2	207.92	479.47	1456.94	2.5	4.95	60.84	-313.72	SLV 8	207.92	479.47	1456.94	2.5	7.88	Si
0	2X/2Y ø8/10	-96.78	-310.99	SLV 2	207.54	479.47	1456.55	2.5	4.95	60.84	-310.99	SLV 8	207.54	479.47	1456.55	2.5	7.88	Si
0.31	2X/2Y ø8/14.8	-96.78	-308.28	SLV 2	207.16	323.12	1456.16	2.5	3.34	60.84	-308.28	SLV 8	207.16	323.12	1456.16	2.5	5.31	Si
0.61	2X/2Y ø8/14.8	-96.78	-305.54	SLV 2	206.78	323.12	1455.76	2.5	3.34	60.84	-305.54	SLV 8	206.78	323.12	1455.76	2.5	5.31	Si
0.92	2X/2Y ø8/14.8	-96.78	-302.8	SLV 2	206.4	323.12	1455.36	2.5	3.34	60.84	-302.8	SLV 8	206.4	323.12	1455.36	2.5	5.31	Si
1.22	2X/2Y ø8/14.8	-96.78	-300.05	SLV 2	206.01	323.12	1454.97	2.5	3.34	60.84	-300.05	SLV 8	206.01	323.12	1454.97	2.5	5.31	Si
1.53	2X/2Y ø8/14.8	-96.78	-297.31	SLV 2	205.63	323.12	1454.57	2.5	3.34	60.84	-297.31	SLV 8	205.63	323.12	1454.57	2.5	5.31	Si
1.83	2X/2Y ø8/14.8	-96.78	-294.57	SLV 2	205.25	323.12	1454.17	2.5	3.34	60.84	-294.57	SLV 8	205.25	323.12	1454.17	2.5	5.31	Si
2.14	2X/2Y ø8/14.8	-96.78	-291.82	SLV 2	204.86	323.12	1453.78	2.5	3.34	60.84	-291.82	SLV 8	204.86	323.12	1453.78	2.5	5.31	Si
2.44	2X/2Y ø8/14.8	-96.78	-289.08	SLV 2	204.48	323.12	1453.38	2.5	3.34	60.84	-289.08	SLV 8	204.48	323.12	1453.38	2.5	5.31	Si
2.75	2X/2Y ø8/14.8	-96.78	-286.34	SLV 2	204.1	323.12	1452.98	2.5	3.34	60.84	-286.34	SLV 8	204.1	323.12	1452.98	2.5	5.31	Si
3.05	2X/2Y ø8/14.8	-96.78	-283.6	SLV 2	203.71	323.12	1452.59	2.5	3.34	60.84	-283.6	SLV 8	203.71	323.12	1452.59	2.5	5.31	Si
3.36	2X/2Y ø8/14.8	-96.78	-280.85	SLV 2	203.33	323.12	1452.19	2.5	3.34	60.84	-280.85	SLV 8	203.33	323.12	1452.19	2.5	5.31	Si
3.66	2X/2Y ø8/14.8	-96.78	-278.11	SLV 2	202.95	323.12	1451.79	2.5	3.34	60.84	-278.11	SLV 8	202.95	323.12	1451.79	2.5	5.31	Si
3.97	2X/2Y ø8/14.8	-96.78	-275.37	SLV 2	202.56	323.12	1451.4	2.5	3.34	60.84	-275.37	SLV 8	202.56	323.12	1451.4	2.5	5.31	Si
4.27	2X/2Y ø8/14.8	-96.78	-272.62	SLV 2	202.18	323.12	1451	2.5	3.34	60.84	-272.62	SLV 8	202.18	323.12	1451	2.5	5.31	Si
4.58	2X/2Y ø8/14.8	-96.78	-269.88	SLV 2	201.8	323.12	1450.61	2.5	3.34	60.84	-269.88	SLV 8	201.8	323.12	1450.61	2.5	5.31	Si
4.88	2X/2Y ø8/10	-96.78	-267.14	SLV 2	201.41	479.47	1450.21	2.5	4.95	60.84	-267.14	SLV 8	201.41	479.47	1450.21	2.5	7.88	Si
5.19	2X/2Y ø8/10	-96.78	-264.4	SLV 2	201.03	479.47	1449.81	2.5	4.95	60.84	-264.4	SLV 8	201.03	479.47	1449.81	2.5	7.88	Si
5.49	2X/2Y ø8/10	-96.78	-261.65	SLV 2	200.65	479.47	1449.42	2.5	4.95	60.84	-261.65	SLV 8	200.65	479.47	1449.42	2.5	7.88	Si
5.8	2X/2Y ø8/10	-96.78	-258.91	SLV 2	200.26	479.47	1449.02	2.5	4.95	60.84	-258.91	SLV 8	200.26	479.47	1449.02	2.5	7.88	Si
6.1	2X/2Y ø8/10	-96.78	-256.21	SLV 2	199.89	479.47	1448.63	2.5	4.95	60.84	-256.21	SLV 8	199.89	479.47	1448.63	2.5	7.88	Si

1.1.21.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	6.65	X	7.625	0.166	0.6	0.0175	0.007691	0.0231	0	207.924	2112.568	479.475	191.79	259.702	479.475	-96.78	-313.721	SLV 2	Si
-0.3	-0.975	6.65	Y	3.813	0.166	0.6	0.0175	0.002767	0.0231	0	207.924	2112.568	479.475	191.79	267.458	479.475	60.841	-313.721	SLV 8	Si

1.1.21.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/10	-38.4	-313.72	SLD 2	207.92	479.47	1456.94	2.5	12.49	24.15	-313.72	SLD 8	207.92	479.47	1456.94	2.5	19.86	Si
0	2X/2Y ø8/10	-38.4	-310.99	SLD 2	207.54	479.47	1456.55	2.5	12.49	24.15	-310.99	SLD 8	207.54	479.47	1456.55	2.5	19.86	Si
0.31	2X/2Y ø8/14.8	-38.4	-308.28	SLD 2	207.16	323.12	1456.16	2.5	8.41	24.15	-308.28	SLD 8	207.16	323.12	1456.16	2.5	13.38	Si
0.61	2X/2Y ø8/14.8	-38.4	-305.54	SLD 2	206.78	323.12	1455.76	2.5	8.41	24.15	-305.54	SLD 8	206.78	323.12	1455.76	2.5	13.38	Si
0.92	2X/2Y ø8/14.8	-38.4	-302.8	SLD 2	206.4	323.12	1455.36	2.5	8.41	24.15	-302.8	SLD 8	206.4	323.12	1455.36	2.5	13.38	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
1.22	2X/2Y ø8/14.8	-38.4	-300.05	SLD 2	206.01	323.12	1454.97	2.5	8.41	24.15	-300.05	SLD 8	206.01	323.12	1454.97	2.5	13.38	Si
1.53	2X/2Y ø8/14.8	-38.4	-297.31	SLD 2	205.63	323.12	1454.57	2.5	8.41	24.15	-297.31	SLD 8	205.63	323.12	1454.57	2.5	13.38	Si
1.83	2X/2Y ø8/14.8	-38.4	-294.57	SLD 2	205.25	323.12	1454.17	2.5	8.41	24.15	-294.57	SLD 8	205.25	323.12	1454.17	2.5	13.38	Si
2.14	2X/2Y ø8/14.8	-38.4	-291.82	SLD 2	204.86	323.12	1453.78	2.5	8.41	24.15	-291.82	SLD 8	204.86	323.12	1453.78	2.5	13.38	Si
2.44	2X/2Y ø8/14.8	-38.4	-289.08	SLD 2	204.48	323.12	1453.38	2.5	8.41	24.15	-289.08	SLD 8	204.48	323.12	1453.38	2.5	13.38	Si
2.75	2X/2Y ø8/14.8	-38.4	-286.34	SLD 2	204.1	323.12	1452.98	2.5	8.41	24.15	-286.34	SLD 8	204.1	323.12	1452.98	2.5	13.38	Si
3.05	2X/2Y ø8/14.8	-38.4	-283.6	SLD 2	203.71	323.12	1452.59	2.5	8.41	24.15	-283.6	SLD 8	203.71	323.12	1452.59	2.5	13.38	Si
3.36	2X/2Y ø8/14.8	-38.4	-280.85	SLD 2	203.33	323.12	1452.19	2.5	8.41	24.15	-280.85	SLD 8	203.33	323.12	1452.19	2.5	13.38	Si
3.66	2X/2Y ø8/14.8	-38.4	-278.11	SLD 2	202.95	323.12	1451.79	2.5	8.41	24.15	-278.11	SLD 8	202.95	323.12	1451.79	2.5	13.38	Si
3.97	2X/2Y ø8/14.8	-38.4	-275.37	SLD 2	202.56	323.12	1451.4	2.5	8.41	24.15	-275.37	SLD 8	202.56	323.12	1451.4	2.5	13.38	Si
4.27	2X/2Y ø8/14.8	-38.4	-272.62	SLD 2	202.18	323.12	1451	2.5	8.41	24.15	-272.62	SLD 8	202.18	323.12	1451	2.5	13.38	Si
4.58	2X/2Y ø8/14.8	-38.4	-269.88	SLD 2	201.8	323.12	1450.61	2.5	8.41	24.15	-269.88	SLD 8	201.8	323.12	1450.61	2.5	13.38	Si
4.88	2X/2Y ø8/10	-38.4	-267.14	SLD 2	201.41	479.47	1450.21	2.5	12.49	24.15	-267.14	SLD 8	201.41	479.47	1450.21	2.5	19.86	Si
5.19	2X/2Y ø8/10	-38.4	-264.4	SLD 2	201.03	479.47	1449.81	2.5	12.49	24.15	-264.4	SLD 8	201.03	479.47	1449.81	2.5	19.86	Si
5.49	2X/2Y ø8/10	-38.4	-261.65	SLD 2	200.65	479.47	1449.42	2.5	12.49	24.15	-261.65	SLD 8	200.65	479.47	1449.42	2.5	19.86	Si
5.8	2X/2Y ø8/10	-38.4	-258.91	SLD 2	200.26	479.47	1449.02	2.5	12.49	24.15	-258.91	SLD 8	200.26	479.47	1449.02	2.5	19.86	Si
6.1	2X/2Y ø8/10	-38.4	-256.21	SLD 2	199.89	479.47	1448.63	2.5	12.49	24.15	-256.21	SLD 8	199.89	479.47	1448.63	2.5	19.86	Si

1.1.21.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	4.951	1961	1.347	0.368	1.298	SLV 1	Si
0.31	3.338	1961	1.347	0.368	1.298	SLV 1	Si
0.61	3.338	1961	1.347	0.368	1.298	SLV 1	Si
0.92	3.338	1961	1.347	0.368	1.298	SLV 1	Si
1.22	3.338	1961	1.347	0.368	1.298	SLV 1	Si
1.53	3.338	1961	1.347	0.368	1.298	SLV 1	Si
1.83	3.338	1961	1.347	0.368	1.298	SLV 1	Si
2.14	3.338	1961	1.347	0.368	1.298	SLV 1	Si
2.44	3.338	1961	1.347	0.368	1.298	SLV 1	Si
2.75	3.338	1961	1.347	0.368	1.298	SLV 1	Si
3.05	3.338	1961	1.347	0.368	1.298	SLV 1	Si
3.36	3.338	1961	1.347	0.368	1.298	SLV 1	Si
3.66	3.338	1961	1.347	0.368	1.298	SLV 1	Si
3.97	3.338	1961	1.347	0.368	1.298	SLV 1	Si
4.27	3.338	1961	1.347	0.368	1.298	SLV 1	Si
4.58	3.338	1961	1.347	0.368	1.298	SLV 1	Si
4.88	4.951	1961	1.347	0.368	1.298	SLV 1	Si
5.19	4.951	1961	1.347	0.368	1.298	SLV 1	Si
5.49	4.951	1961	1.347	0.368	1.298	SLV 1	Si
5.8	4.951	1961	1.347	0.368	1.298	SLV 1	Si
6.1	4.951	1961	1.347	0.368	1.298	SLV 1	Si

1.1.21.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	12.484	1961	3.374	0.368	3.05	SLD 1	Si
0	12.484	1961	3.374	0.368	3.05	SLD 1	Si
0.31	8.412	1961	3.374	0.368	3.05	SLD 1	Si
0.61	8.412	1961	3.374	0.368	3.05	SLD 1	Si
0.92	8.412	1961	3.374	0.368	3.05	SLD 1	Si
1.22	8.412	1961	3.374	0.368	3.05	SLD 1	Si
1.53	8.412	1961	3.374	0.368	3.05	SLD 1	Si
1.83	8.412	1961	3.374	0.368	3.05	SLD 1	Si
2.14	8.412	1961	3.374	0.368	3.05	SLD 1	Si
2.44	8.412	1961	3.374	0.368	3.05	SLD 1	Si
2.75	8.412	1961	3.374	0.368	3.05	SLD 1	Si
3.05	8.412	1961	3.374	0.368	3.05	SLD 1	Si
3.36	8.412	1961	3.374	0.368	3.05	SLD 1	Si
3.66	8.412	1961	3.374	0.368	3.05	SLD 1	Si
3.97	8.412	1961	3.374	0.368	3.05	SLD 1	Si
4.27	8.412	1961	3.374	0.368	3.05	SLD 1	Si
4.58	8.412	1961	3.374	0.368	3.05	SLD 1	Si
4.88	12.484	1961	3.374	0.368	3.05	SLD 1	Si
5.19	12.484	1961	3.374	0.368	3.05	SLD 1	Si
5.49	12.484	1961	3.374	0.368	3.05	SLD 1	Si
5.8	12.484	1961	3.374	0.368	3.05	SLD 1	Si
6.1	12.484	1961	3.374	0.368	3.05	SLD 1	Si

1.1.21.4 Verifiche nodi trave colonna

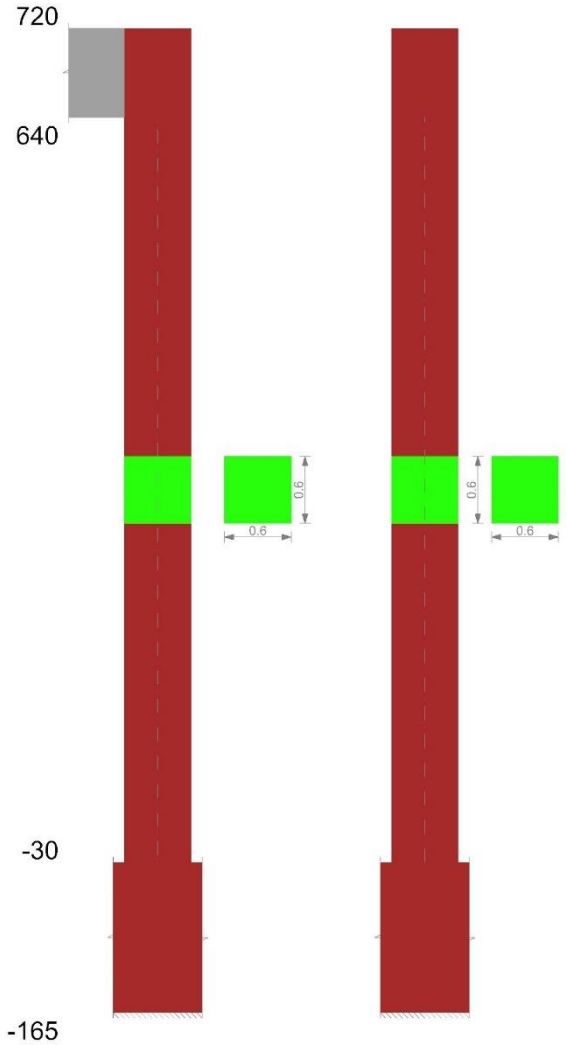
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.21.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.22 P32

Geometria



1.1.22.1 Dati della pilastrata

Analisi di edificio esistente con fattore di struttura.
Fattore di struttura per meccanismi duttili in direzione X: 1,5
Fattore di struttura per meccanismi duttili in direzione Y: 1,5
Fattore di struttura per meccanismi fragili: 1.5
Verifica dei meccanismi fragili condotta secondo Circolare 7 21-01-19 (§C8.7.2.2) Analisi lineare con fattore q.
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione X: 1
Fattore di amplificazione dei meccanismi fragili della componente sismica in direzione Y: 1

1.1.22.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-0.3	6.4	R 60x60_1	Si	No	No	No		C57/69 LC2	Armature LC2_FC = 1,2	1.2

1.1.22.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2531	-0.2531	0.026	0.0005309	-0.3	6.4	R 60x60_1	Armature LC2
p.1	0.2531	-0.2531	0.026	0.0005309	-0.3	6.4	R 60x60_1	Armature LC2
p.1	0.2531	0.2531	0.026	0.0005309	-0.3	6.4	R 60x60_1	Armature LC2
p.1	-0.2531	0.2531	0.026	0.0005309	-0.3	6.4	R 60x60_1	Armature LC2
p.2	0	-0.257	0.02	0.0003142	-1.75	6.4	R 60x60_1	Armature LC2
p.2	0	0.257	0.02	0.0003142	-1.75	6.4	R 60x60_1	Armature LC2
p.2	-0.257	0	0.02	0.0003142	-1.75	6.4	R 60x60_1	Armature LC2
p.2	0.257	0	0.02	0.0003142	-1.75	6.4	R 60x60_1	Armature LC2
p.3	-0.2531	-0.2531	0.026	0.0005309	-1.75	7.2	R 60x60_1	Armature LC2
p.3	-0.2531	-0.2131	0.026	0.0005309	-1.75	7.2	R 60x60_1	Armature LC2
p.3	0.2531	-0.2531	0.026	0.0005309	-1.75	7.2	R 60x60_1	Armature LC2
p.3	0.2531	-0.2131	0.026	0.0005309	-1.75	7.2	R 60x60_1	Armature LC2
p.3	0.2531	0.2531	0.026	0.0005309	-1.75	7.2	R 60x60_1	Armature LC2
p.3	0.2531	0.2131	0.026	0.0005309	-1.75	7.2	R 60x60_1	Armature LC2
p.3	-0.2531	0.2531	0.026	0.0005309	-1.75	7.2	R 60x60_1	Armature LC2
p.3	-0.2531	0.2131	0.026	0.0005309	-1.75	7.2	R 60x60_1	Armature LC2
p.4	-0.2131	-0.2531	0.026	0.0005309	-1.75	5.693	R 60x60_1	Armature LC2
p.4	0.2131	-0.2531	0.026	0.0005309	-1.75	5.693	R 60x60_1	Armature LC2
p.4	0.2131	0.2531	0.026	0.0005309	-1.75	5.693	R 60x60_1	Armature LC2
p.4	-0.2131	0.2531	0.026	0.0005309	-1.75	5.693	R 60x60_1	Armature LC2

1.1.22.2 Controlli geometrici NTC18

Nessuna anomalia

1.1.22.3 Verifiche delle sezioni

1.1.22.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007628	2.7	0	1,2,3,4	0	0	-539.95	0	0	SLU 17	19.824	Si
0	0.008106	2.7	0	1,2,3,4	0	0	-536.4	0	0	SLU 17	20.293	Si
0.31	0.008585	2.7	0	1,2,3,4	0	0	-532.89	0	0	SLU 17	20.767	Si
0.61	0.009063	2.7	0	1,2,3,4	0	0	-529.32	0	0	SLU 17	21.25	Si
0.92	0.009541	2.7	0	1,2,3,4	0	0	-525.76	0	0	SLU 17	21.739	Si
1.22	0.009752	2.7	0	1,2,3,4	0	0	-522.2	0	0	SLU 17	22.04	Si
1.53	0.009752	2.7	0	1,2,3,4	0	0	-518.63	0	0	SLU 17	22.191	Si
1.83	0.009752	2.7	0	1,2,3,4	0	0	-515.07	0	0	SLU 17	22.345	Si
2.14	0.009752	2.7	0	1,2,3,4	0	0	-511.51	0	0	SLU 17	22.5	Si
2.44	0.009752	2.7	0	1,2,3,4	0	0	-507.94	0	0	SLU 17	22.658	Si
2.75	0.009752	2.7	0	1,2,3,4	0	0	-504.38	0	0	SLU 17	22.818	Si
3.05	0.009752	2.7	0	1,2,3,4	0	0	-500.82	0	0	SLU 17	22.981	Si
3.35	0.009752	2.7	0	1,2,3,4	0	0	-497.25	0	0	SLU 17	23.145	Si
3.66	0.009752	2.7	0	1,2,3,4	0	0	-493.69	0	0	SLU 17	23.312	Si
3.96	0.009752	2.7	0	1,2,3,4	0	0	-490.13	0	0	SLU 17	23.482	Si
4.27	0.009752	2.7	0	1,2,3,4	0	0	-486.56	0	0	SLU 17	23.654	Si
4.57	0.009752	2.7	0	1,2,3,4	0	0	-483	0	0	SLU 17	23.828	Si
4.88	0.009752	2.7	0	1,2,3,4	0	0	-479.44	0	0	SLU 17	24.005	Si
5.18	0.009752	2.7	0	1,2,3,4	0	0	-475.87	0	0	SLU 17	24.185	Si
5.49	0.009752	2.7	0	1,2,3,4	0	0	-472.31	0	0	SLU 17	24.368	Si
5.79	0.009598	2.7	0	1,2,3,4	0	0	-468.75	0	0	SLU 17	24.429	Si
6.1	0.00912	2.7	0	1,2,3,4	0	0	-465.18	0	0	SLU 17	24.226	Si
6.4	0.009159	3.9	0	1,2,3,4	0	0	-461.68	0	0	SLU 17	24.442	Si

1.1.22.3.2 Verifica a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-0.3	0.007628	2.7	0	1,2,3,4	127.929	619.0967	-338.81	199.9597	967.6806	SLV 2	1.563				Si
0	0.008106	2.7	0	1,2,3,4	122.3345	592.0088	-336.08	213.261	1032.026	SLV 2	1.743				Si
0.31	0.008585	2.7	0	1,2,3,4	116.8073	565.2463	-333.37	226.7777	1097.408	SLV 2	1.941				Si
0.61	0.009063	2.7	0	1,2,3,4	111.2004	538.0983	-330.63	240.5748	1164.1405	SLV 2	2.163				Si
0.92	0.009541	2.7	0	1,2,3,4	105.5935	510.9503	-327.89	254.6234	1232.0826	SLV 2	2.411				Si
1.22	0.009752	2.7	0	1,2,3,4	99.9866	483.8023	-325.15	262.0493	1267.9704	SLV 2	2.621				Si
1.53	0.009752	2.7	0	1,2,3,4	94.3797	456.6542	-322.41	264.3367	1278.9875	SLV 2	2.801				Si
1.83	0.009752	2.7	0	1,2,3,4	88.7728	429.5062	-319.67	266.8806	1291.2383	SLV 2	3.006				Si
2.14	0.009752	2.7	0	1,2,3,4	83.1659	402.3582	-316.93	269.6006	1304.3323	SLV 2	3.242				Si
2.44	0.009752	2.7	0	1,2,3,4	77.559	375.2101	-314.19	272.7825	1319.6492	SLV 2	3.517				Si
2.75	0.009752	2.7	0	1,2,3,4	71.9522	348.0621	-311.45	276.4569	1337.3354	SLV 2	3.842				Si
3.05	0.009752	2.7	0	1,2,3,4	66.3453	320.9141	-308.7	280.792	1358.1994	SLV 2	4.232				Si
3.35	0.009752	2.7	0	1,2,3,4	60.7384	293.766	-305.96	285.9464	1383.0022	SLV 2	4.708				Si
3.66	0.009752	2.7	0	1,2,3,4	55.1315	266.618	-303.22	292.2452	1413.3083	SLV 2	5.301				Si
3.96	0.009752	2.7	0	1,2,3,4	49.5246	239.47	-300.48	300.0315	1450.7641	SLV 2	6.058				Si
4.27	0.009752	2.7	0	1,2,3,4	43.9177	212.3219	-297.74	309.8288	1497.8787	SLV 2	7.055				Si
4.57	0.009752	2.7	0	1,2,3,4	38.3109	185.1739	-295	322.1646	1557.1683	SLV 2	8.409				Si
4.88	0.009752	2.7	0	1,2,3,4	32.704	158.0259	-292.26	337.5172	1630.885	SLV 2	10.32				Si
5.18	0.009752	2.7	0	1,2,3,4	27.0971	130.8778	-289.52	355.517	1717.1303	SLV 2	13.12				Si
5.49	0.009752	2.7	0	1,2,3,4	21.4903	103.7298	-286.78	370.4973	1788.3258	SLV 2	17.24				Si
5.79	0.009598	2.7	0	1,2,3,4	15.8835	76.5818	-284.04	374.736	1806.7827	SLV 2	23.593				Si
6.1	0.00912	2.7	0	1,2,3,4	10.2767	49.4337	-281.3	337.0096	1621.1068	SLV 2	32.794				Si
6.4	0.009159	3.9	0	1,2,3,4	4.7636	22.7314	-278.6	229.6931	1096.0825	SLV 2	48.219				Si

1.1.22.3.3 Verifica a pressoflessione in SLD

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-0.3	0.007628	2.7	0	1,2,3,4	50.8219	245.6437	-338.81	248.0387	1198.8755	SLD 2	4.881	Si
0	0.008106	2.7	0	1,2,3,4	48.5994	234.8959	-336.08	265.1285	1281.4472	SLD 2	5.455	Si
0.31	0.008585	2.7	0	1,2,3,4	46.4036	224.2771	-333.37	282.355	1364.673	SLD 2	6.085	Si
0.61	0.009063	2.7	0	1,2,3,4	44.1762	213.5054	-330.63	300.1334	1450.5572	SLD 2	6.794	Si
0.92	0.009541	2.7	0	1,2,3,4	41.9488	202.7337	-327.89	317.8497	1536.132	SLD 2	7.577	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
1.22	0.009752	2.7	0	1,2,3,4	39.7213	191.9619	-325.15	328.2468	1586.3238	SLD 2	8.264	Si
1.53	0.009752	2.7	0	1,2,3,4	37.4939	181.1902	-322.41	333.3781	1611.058	SLD 2	8.892	Si
1.83	0.009752	2.7	0	1,2,3,4	35.2665	170.4185	-319.67	339.0103	1638.2024	SLD 2	9.613	Si
2.14	0.009752	2.7	0	1,2,3,4	33.039	159.6467	-316.93	344.7194	1665.7062	SLD 2	10.434	Si
2.44	0.009752	2.7	0	1,2,3,4	30.8116	148.875	-314.19	350.7974	1694.9768	SLD 2	11.385	Si
2.75	0.009752	2.7	0	1,2,3,4	28.5842	138.1033	-311.45	356.83	1724.0096	SLD 2	12.483	Si
3.05	0.009752	2.7	0	1,2,3,4	26.3567	127.3315	-308.7	361.726	1747.5272	SLD 2	13.724	Si
3.35	0.009752	2.7	0	1,2,3,4	24.1293	116.5598	-305.96	367.0874	1773.2637	SLD 2	15.213	Si
3.66	0.009752	2.7	0	1,2,3,4	21.9019	105.7881	-303.22	371.6449	1795.078	SLD 2	16.969	Si
3.96	0.009752	2.7	0	1,2,3,4	19.6745	95.0163	-300.48	375.4276	1813.1001	SLD 2	19.082	Si
4.27	0.009752	2.7	0	1,2,3,4	17.447	84.2446	-297.74	376.7724	1819.2809	SLD 2	21.595	Si
4.57	0.009752	2.7	0	1,2,3,4	15.2196	73.4729	-295	374.0377	1805.6733	SLD 2	24.576	Si
4.88	0.009752	2.7	0	1,2,3,4	12.9922	62.7011	-292.26	362.3779	1748.8608	SLD 2	27.892	Si
5.18	0.009752	2.7	0	1,2,3,4	10.7647	51.9294	-289.52	344.6002	1662.3591	SLD 2	32.012	Si
5.49	0.009752	2.7	0	1,2,3,4	8.5373	41.1577	-286.78	317.152	1528.9597	SLD 2	37.149	Si
5.79	0.009598	2.7	0	1,2,3,4	6.3099	30.3859	-284.04	272.7836	1313.61	SLD 2	43.231	Si
6.1	0.00912	2.7	0	1,2,3,4	4.0826	19.6142	-281.3	204.046	980.3171	SLD 2	49.98	Si
6.4	0.009159	3.9	0	1,2,3,4	-6.202	2.7054	-278.6	-344.8412	150.4275	SLD 7	55.602	Si

1.1.22.3.4 Indicatori di rischio sismico a pressoflessione in SLV

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	1.492	1961	1.347	0.368	1.298	SLV 1	Si
0	1.648	1961	1.347	0.368	1.298	SLV 1	Si
0.31	1.816	1961	1.347	0.368	1.298	SLV 1	Si
0.61	2.002	1961	1.347	0.368	1.298	SLV 1	Si
0.92	2.21	1961	1.347	0.368	1.298	SLV 1	Si
1.22	2.377	1961	1.347	0.368	1.298	SLV 1	Si
1.53	2.518	1961	1.347	0.368	1.298	SLV 1	Si
1.83	2.676	1961	1.347	0.368	1.298	SLV 1	Si
2.14	2.857	1961	1.347	0.368	1.298	SLV 1	Si
2.44	3.063	1961	1.347	0.368	1.298	SLV 1	Si
2.75	3.297	1961	1.347	0.368	1.298	SLV 1	Si
3.05	3.572	1961	1.347	0.368	1.298	SLV 1	Si
3.35	3.906	1961	1.347	0.368	1.298	SLV 1	Si
3.66	4.295	1961	1.347	0.368	1.298	SLV 1	Si
3.96	4.78	1961	1.347	0.368	1.298	SLV 1	Si
4.27	5.389	1961	1.347	0.368	1.298	SLV 1	Si
4.57	6.182	1961	1.347	0.368	1.298	SLV 1	Si
4.88	7.234	1961	1.347	0.368	1.298	SLV 1	Si
5.18	8.734	1961	1.347	0.368	1.298	SLV 1	Si
5.49	11.02	1961	1.347	0.368	1.298	SLV 1	Si
5.79	14.711	1961	1.347	0.368	1.298	SLV 1	Si
6.1	21.828	1961	1.347	0.368	1.298	SLV 1	Si
6.4	47.635	1961	1.347	0.368	1.298	SLV 1	Si

1.1.22.3.5 Indicatori di rischio sismico a pressoflessione in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	Ver.
-0.3	3.766	1961	3.374	0.368	3.05	SLD 1	Si
0	4.151	1961	3.374	0.368	3.05	SLD 1	Si
0.31	4.575	1961	3.374	0.368	3.05	SLD 1	Si
0.61	5.047	1961	3.374	0.368	3.05	SLD 1	Si
0.92	5.566	1961	3.374	0.368	3.05	SLD 1	Si
1.22	5.99	1961	3.374	0.368	3.05	SLD 1	Si
1.53	6.346	1961	3.374	0.368	3.05	SLD 1	Si
1.83	6.742	1961	3.374	0.368	3.05	SLD 1	Si
2.14	7.193	1961	3.374	0.368	3.05	SLD 1	Si
2.44	7.713	1961	3.374	0.368	3.05	SLD 1	Si
2.75	8.31	1961	3.374	0.368	3.05	SLD 1	Si
3.05	9.013	1961	3.374	0.368	3.05	SLD 1	Si
3.35	9.833	1961	3.374	0.368	3.05	SLD 1	Si
3.66	10.829	1961	3.374	0.368	3.05	SLD 1	Si
3.96	12.045	1961	3.374	0.368	3.05	SLD 1	Si
4.27	13.598	1961	3.374	0.368	3.05	SLD 1	Si
4.57	15.561	1961	3.374	0.368	3.05	SLD 1	Si
4.88	18.226	1961	3.374	0.368	3.05	SLD 1	Si
5.18	22.01	1961	3.374	0.368	3.05	SLD 1	Si
5.49	27.762	1961	3.374	0.368	3.05	SLD 1	Si
5.79	37.053	1961	3.374	0.368	3.05	SLD 1	Si
6.1	55.018	1961	3.374	0.368	3.05	SLD 1	Si
6.4	120.063	1961	3.374	0.368	3.05	SLD 1	Si

1.1.22.3.6 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/18.2	0	-309.27	SLU 1	206.72	262.78	1451.09	2.5	1000	0	-309.27	SLU 1	206.72	262.78	1451.09	2.5	1000	Si
0	2X/2Y ø8/18.2	0	-306.54	SLU 1	206.34	262.78	1450.7	2.5	1000	0	-306.54	SLU 1	206.34	262.78	1450.7	2.5	1000	Si
0.31	2X/2Y ø8/14.7	0	-303.83	SLU 1	205.97	324.35	1450.31	2.5	1000	0	-303.83	SLU 1	205.97	324.35	1450.31	2.5	1000	Si
0.61	2X/2Y ø8/14.7	0	-301.09	SLU 1	205.59	324.35	1449.91	2.5	1000	0	-301.09	SLU 1	205.59	324.35	1449.91	2.5	1000	Si
0.92	2X/2Y ø8/14.7	0	-298.35	SLU 1	205.2	324.35	1449.52	2.5	1000	0	-298.35	SLU 1	205.2	324.35	1449.52	2.5	1000	Si
1.22	2X/2Y ø8/14.7	0	-295.61	SLU 1	204.82	324.35	1449.12	2.5	1000	0	-295.61	SLU 1	204.82	324.35	1449.12	2.5	1000	Si
1.53	2X/2Y ø8/14.7	0	-292.87	SLU 1	204.44	324.35	1448.73	2.5	1000	0	-292.87	SLU 1	204.44	324.35	1448.73	2.5	1000	Si
1.83	2X/2Y ø8/14.7	0	-290.13	SLU 1	204.06	324.35	1448.33	2.5	1000	0	-290.13	SLU 1	204.06	324.35	1448.33	2.5	1000	Si
2.14	2X/2Y ø8/14.7	0	-287.39	SLU 1	203.68	324.35	1447.94	2.5	1000	0	-287.39	SLU 1	203.68	324.35	1447.94	2.5	1000	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
2.44	2X/2Y ø8/14.7	0	-284.65	SLU 1	203.3	324.35	1447.54	2.5	1000	0	-284.65	SLU 1	203.3	324.35	1447.54	2.5	1000	Si
2.75	2X/2Y ø8/14.7	0	-281.91	SLU 1	202.91	324.35	1447.15	2.5	1000	0	-281.91	SLU 1	202.91	324.35	1447.15	2.5	1000	Si
3.05	2X/2Y ø8/14.7	0	-279.17	SLU 1	202.53	324.35	1446.75	2.5	1000	0	-279.17	SLU 1	202.53	324.35	1446.75	2.5	1000	Si
3.35	2X/2Y ø8/14.7	0	-276.43	SLU 1	202.15	324.35	1446.36	2.5	1000	0	-276.43	SLU 1	202.15	324.35	1446.36	2.5	1000	Si
3.66	2X/2Y ø8/14.7	0	-273.68	SLU 1	201.77	324.35	1445.96	2.5	1000	0	-273.68	SLU 1	201.77	324.35	1445.96	2.5	1000	Si
3.96	2X/2Y ø8/14.7	0	-270.94	SLU 1	201.39	324.35	1445.57	2.5	1000	0	-270.94	SLU 1	201.39	324.35	1445.57	2.5	1000	Si
4.27	2X/2Y ø8/14.7	0	-268.2	SLU 1	201.01	324.35	1445.17	2.5	1000	0	-268.2	SLU 1	201.01	324.35	1445.17	2.5	1000	Si
4.57	2X/2Y ø8/14.7	0	-265.46	SLU 1	200.62	324.35	1444.78	2.5	1000	0	-265.46	SLU 1	200.62	324.35	1444.78	2.5	1000	Si
4.88	2X/2Y ø8/14.7	0	-262.72	SLU 1	200.24	324.35	1444.38	2.5	1000	0	-262.72	SLU 1	200.24	324.35	1444.38	2.5	1000	Si
5.18	2X/2Y ø8/14.7	0	-259.98	SLU 1	199.86	324.35	1443.99	2.5	1000	0	-259.98	SLU 1	199.86	324.35	1443.99	2.5	1000	Si
5.49	2X/2Y ø8/14.7	0	-257.24	SLU 1	199.48	324.35	1443.59	2.5	1000	0	-257.24	SLU 1	199.48	324.35	1443.59	2.5	1000	Si
5.79	2X/2Y ø8/10	0	-254.5	SLU 1	199.1	477.76	1443.2	2.5	1000	0	-254.5	SLU 1	199.1	477.76	1443.2	2.5	1000	Si
6.1	2X/2Y ø8/10	0	-251.76	SLU 1	198.72	477.76	1442.8	2.5	1000	0	-251.76	SLU 1	198.72	477.76	1442.8	2.5	1000	Si
6.4	2X/2Y ø8/10	0	-249.06	SLU 1	198.34	477.76	1442.42	2.5	1000	0	-249.06	SLU 1	198.34	477.76	1442.42	2.5	1000	Si

1.1.22.3.7 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/18.2	-89.14	-338.81	SLV 1	210.84	262.78	1455.34	2.5	2.95	-60.56	-338.81	SLV 6	210.84	262.78	1455.34	2.5	4.34	Si
0	2X/2Y ø8/18.2	-89.14	-336.08	SLV 1	210.46	262.78	1454.95	2.5	2.95	-60.56	-336.08	SLV 6	210.46	262.78	1454.95	2.5	4.34	Si
0.31	2X/2Y ø8/14.7	-89.14	-333.37	SLV 1	210.08	324.35	1454.56	2.5	3.64	-60.56	-333.37	SLV 6	210.08	324.35	1454.56	2.5	5.36	Si
0.61	2X/2Y ø8/14.7	-89.14	-330.63	SLV 1	209.7	324.35	1454.17	2.5	3.64	-60.56	-330.63	SLV 6	209.7	324.35	1454.17	2.5	5.36	Si
0.92	2X/2Y ø8/14.7	-89.14	-327.89	SLV 1	209.32	324.35	1453.77	2.5	3.64	-60.56	-327.89	SLV 6	209.32	324.35	1453.77	2.5	5.36	Si
1.22	2X/2Y ø8/14.7	-89.14	-325.15	SLV 1	208.94	324.35	1453.38	2.5	3.64	-60.56	-325.15	SLV 6	208.94	324.35	1453.38	2.5	5.36	Si
1.53	2X/2Y ø8/14.7	-89.14	-322.41	SLV 1	208.55	324.35	1452.98	2.5	3.64	-60.56	-322.41	SLV 6	208.55	324.35	1452.98	2.5	5.36	Si
1.83	2X/2Y ø8/14.7	-89.14	-319.67	SLV 1	208.17	324.35	1452.59	2.5	3.64	-60.56	-319.67	SLV 6	208.17	324.35	1452.59	2.5	5.36	Si
2.14	2X/2Y ø8/14.7	-89.14	-316.93	SLV 1	207.79	324.35	1452.19	2.5	3.64	-60.56	-316.93	SLV 6	207.79	324.35	1452.19	2.5	5.36	Si
2.44	2X/2Y ø8/14.7	-89.14	-314.19	SLV 1	207.41	324.35	1451.8	2.5	3.64	-60.56	-314.19	SLV 6	207.41	324.35	1451.8	2.5	5.36	Si
2.75	2X/2Y ø8/14.7	-89.14	-311.45	SLV 1	207.03	324.35	1451.4	2.5	3.64	-60.56	-311.45	SLV 6	207.03	324.35	1451.4	2.5	5.36	Si
3.05	2X/2Y ø8/14.7	-89.14	-308.7	SLV 1	206.65	324.35	1451.01	2.5	3.64	-60.56	-308.7	SLV 6	206.65	324.35	1451.01	2.5	5.36	Si
3.35	2X/2Y ø8/14.7	-89.14	-305.96	SLV 1	206.26	324.35	1450.61	2.5	3.64	-60.56	-305.96	SLV 6	206.26	324.35	1450.61	2.5	5.36	Si
3.66	2X/2Y ø8/14.7	-89.14	-303.22	SLV 1	205.88	324.35	1450.22	2.5	3.64	-60.56	-303.22	SLV 6	205.88	324.35	1450.22	2.5	5.36	Si
3.96	2X/2Y ø8/14.7	-89.14	-300.48	SLV 1	205.5	324.35	1449.82	2.5	3.64	-60.56	-300.48	SLV 6	205.5	324.35	1449.82	2.5	5.36	Si
4.27	2X/2Y ø8/14.7	-89.14	-297.74	SLV 1	205.12	324.35	1449.43	2.5	3.64	-60.56	-297.74	SLV 6	205.12	324.35	1449.43	2.5	5.36	Si
4.57	2X/2Y ø8/14.7	-89.14	-295	SLV 1	204.74	324.35	1449.03	2.5	3.64	-60.56	-295	SLV 6	204.74	324.35	1449.03	2.5	5.36	Si
4.88	2X/2Y ø8/14.7	-89.14	-292.26	SLV 1	204.36	324.35	1448.64	2.5	3.64	-60.56	-292.26	SLV 6	204.36	324.35	1448.64	2.5	5.36	Si
5.18	2X/2Y ø8/14.7	-89.14	-289.52	SLV 1	203.97	324.35	1448.24	2.5	3.64	-60.56	-289.52	SLV 6	203.97	324.35	1448.24	2.5	5.36	Si
5.49	2X/2Y ø8/14.7	-89.14	-286.78	SLV 1	203.59	324.35	1447.85	2.5	3.64	-60.56	-286.78	SLV 6	203.59	324.35	1447.85	2.5	5.36	Si
5.79	2X/2Y ø8/10	-89.14	-284.04	SLV 1	203.21	477.76	1447.45	2.5	5.36	-60.56	-284.04	SLV 6	203.21	477.76	1447.45	2.5	7.89	Si
6.1	2X/2Y ø8/10	-89.14	-281.3	SLV 1	202.83	477.76	1447.06	2.5	5.36	-60.56	-281.3	SLV 6	202.83	477.76	1447.06	2.5	7.89	Si
6.4	2X/2Y ø8/10	-89.14	-278.6	SLV 1	202.45	477.76	1446.67	2.5	5.36	-60.56	-278.6	SLV 6	202.45	477.76	1446.67	2.5	7.89	Si

1.1.22.3.8 Verifica taglio ciclico secondo Circolare 7 21-01-19 §C8.7.2.3.5 formula [C8.7.2.8] in combinazione SLV

Quota	Q.inf.	Q.sup.	Dir.	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	VRd	VRcd(cotθ=1)	VRsd	Vw	VR	VR,f	VEd	NEd	Comb.	Verifica
-0.3	-0.975	6.8	X	3.813	0.168	0.6	0.0212	0.004439	0.023361	0	210.838	2110.249	262.781	105.112	210.723	262.781	-89.143	-338.81	SLV 1	Si
-0.3	-0.975	6.8	Y	3.813	0.168	0.6	0.0212	0.002761	0.023361	0	210.838	2110.249	262.781	105.112	210.723	262.781	-60.557	-338.81	SLV 6	Si

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1.1.22.3.9 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-0.3	2X/2Y ø8/18.2	-35.37	-338.81	SLD 1	210.84	262.78	1455.34	2.5	7.43	-24.03	-338.81	SLD 6	210.84	262.78	1455.34	2.5	10.93	Si
0	2X/2Y ø8/18.2	-35.37	-336.08	SLD 1	210.46	262.78	1454.95	2.5	7.43	-24.03	-336.08	SLD 6	210.46	262.78	1454.95	2.5	10.93	Si
0.31	2X/2Y ø8/14.7	-35.37	-333.37	SLD 1	210.08	324.35	1454.56	2.5	9.17	-24.03	-333.37	SLD 6	210.08	324.35	1454.56	2.5	13.5	Si
0.61	2X/2Y ø8/14.7	-35.37	-330.63	SLD 1	209.7	324.35	1454.17	2.5	9.17	-24.03	-330.63	SLD 6	209.7	324.35	1454.17	2.5	13.5	Si
0.92	2X/2Y ø8/14.7	-35.37	-327.89	SLD 1	209.32	324.35	1453.77	2.5	9.17	-24.03	-327.89	SLD 6	209.32	324.35	1453.77	2.5	13.5	Si
1.22	2X/2Y ø8/14.7	-35.37	-325.15	SLD 1	208.94	324.35	1453.38	2.5	9.17	-24.03	-325.15	SLD 6	208.94	324.35	1453.38	2.5	13.5	Si
1.53	2X/2Y ø8/14.7	-35.37	-322.41	SLD 1	208.55	324.35	1452.98	2.5	9.17	-24.03	-322.41	SLD 6	208.55	324.35	1452.98	2.5	13.5	Si
1.83	2X/2Y ø8/14.7	-35.37	-319.67	SLD 1	208.17	324.35	1452.59	2.5	9.17	-24.03	-319.67	SLD 6	208.17	324.35	1452.59	2.5	13.5	Si
2.14	2X/2Y ø8/14.7	-35.37	-316.93	SLD 1	207.79	324.35	1452.19	2.5	9.17	-24.03	-316.93	SLD 6	207.79	324.35	1452.19	2.5	13.5	Si
2.44	2X/2Y ø8/14.7	-35.37	-314.19	SLD 1	207.41	324.35	1451.8	2.5	9.17	-24.03	-314.19	SLD 6	207.41	324.35	1451.8	2.5	13.5	Si
2.75	2X/2Y ø8/14.7	-35.37	-311.45	SLD 1	207.03	324.35	1451.4	2.5	9.17	-24.03	-311.45	SLD 6	207.03	324.35	1451.4	2.5	13.5	Si
3.05	2X/2Y ø8/14.7	-35.37	-308.7	SLD 1	206.65	324.35	1451.01	2.5	9.17	-24.03	-308.7	SLD 6	206.65	324.35	1451.01	2.5	13.5	Si
3.35	2X/2Y ø8/14.7	-35.37	-305.96	SLD 1	206.26	324.35	1450.61	2.5	9.17	-24.03	-305.96	SLD 6	206.26	324.35	1450.61	2.5	13.5	Si
3.66	2X/2Y ø8/14.7	-35.37	-303.22	SLD 1	205.88	324.35	1450.22	2.5	9.17	-24.03	-303.22	SLD 6	205.88	324.35	1450.22	2.5	13.5	Si
3.96	2X/2Y ø8/14.7	-35.37	-300.48	SLD 1	205.5	324.35	1449.82	2.5	9.17	-24.03	-300.48	SLD 6	205.5	324.35	1449.82	2.5	13.5	Si
4.27	2X/2Y ø8/14.7	-35.37	-297.74	SLD 1	205.12	324.35	1449.43	2.5	9.17	-24.03	-297.74	SLD 6	205.12	324.35	1449.43	2.5	13.5	Si
4.57	2X/2Y ø8/14.7	-35.37	-295	SLD 1	204.74	324.35	1449.03	2.5	9.17	-24.03	-295	SLD 6	204.74	324.35	1449.03	2.5	13.5	Si
4.88	2X/2Y ø8/14.7	-35.37	-292.26	SLD 1	204.36	324.35	1448.64	2.5	9.17	-24.03	-292.26	SLD 6	204.36	324.35	1448.64	2.5	13.5	Si
5.18	2X/2Y ø8/14.7	-35.37	-289.52	SLD 1	203.97	324.35	1448.24	2.5	9.17	-24.03	-289.52	SLD 6	203.97	324.35	1448.24	2.5	13.5	Si
5.49	2X/2Y ø8/14.7	-35.37	-286.78	SLD 1	203.59	324.35	1447.85	2.5	9.17	-24.03	-286.78	SLD 6	203.59	324.35	1447.85	2.5	13.5	Si
5.79	2X/2Y ø8/10	-35.37	-284.04	SLD 1	203.21	477.76	1447.45	2.5	13.51	-24.03	-284.04	SLD 6	203.21	477.76	1447.45	2.5	19.88	Si
6.1	2X/2Y ø8/10	-35.37	-281.3	SLD 1	202.83	477.76	1447.06	2.5	13.51	-24.03	-281.3	SLD 6	202.83	477.76	1447.06	2.5	19.88	Si
6.4	2X/2Y ø8/10	-35.37	-278.6	SLD 1	202.45	477.76	1446.67	2.5	13.51	-24.03	-278.6	SLD 6	202.45	477.76	1446.67	2.5	19.88	Si

1.1.22.3.10 Indicatori di rischio sismico a taglio in SLV

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
0	2.945	1961	1.347	0.368	1.298	SLV 1	Si
0.31	3.637	1961	1.347	0.368	1.298	SLV 1	Si
0.61	3.637	1961	1.347	0.368	1.298	SLV 1	Si
0.92	3.637	1961	1.347	0.368	1.298	SLV 1	Si
1.22	3.637	1961	1.347	0.368	1.298	SLV 1	Si
1.53	3.637	1961	1.347	0.368	1.298	SLV 1	Si
1.83	3.637	1961	1.347	0.368	1.298	SLV 1	Si
2.14	3.637	1961	1.347	0.368	1.298	SLV 1	Si
2.44	3.637	1961	1.347	0.368	1.298	SLV 1	Si
2.75	3.637	1961	1.347	0.368	1.298	SLV 1	Si
3.05	3.637	1961	1.347	0.368	1.298	SLV 1	Si
3.35	3.637	1961	1.347	0.368	1.298	SLV 1	Si
3.66	3.637	1961	1.347	0.368	1.298	SLV 1	Si
3.96	3.637	1961	1.347	0.368	1.298	SLV 1	Si
4.27	3.637	1961	1.347	0.368	1.298	SLV 1	Si
4.57	3.637	1961	1.347	0.368	1.298	SLV 1	Si
4.88	3.637	1961	1.347	0.368	1.298	SLV 1	Si
5.18	3.637	1961	1.347	0.368	1.298	SLV 1	Si
5.49	3.637	1961	1.347	0.368	1.298	SLV 1	Si
5.79	5.361	1961	1.347	0.368	1.298	SLV 1	Si
6.1	5.361	1961	1.347	0.368	1.298	SLV 1	Si
6.4	5.361	1961	1.347	0.368	1.298	SLV 1	Si

1.1.22.3.11 Indicatori di rischio sismico a taglio in SLD Resistenza

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
-0.3	7.426	1961	3.374	0.368	3.05	SLD 1	Si
0	7.426	1961	3.374	0.368	3.05	SLD 1	Si
0.31	9.174	1961	3.374	0.368	3.05	SLD 1	Si
0.61	9.174	1961	3.374	0.368	3.05	SLD 1	Si
0.92	9.174	1961	3.374	0.368	3.05	SLD 1	Si
1.22	9.174	1961	3.374	0.368	3.05	SLD 1	Si
1.53	9.174	1961	3.374	0.368	3.05	SLD 1	Si
1.83	9.174	1961	3.374	0.368	3.05	SLD 1	Si
2.14	9.174	1961	3.374	0.368	3.05	SLD 1	Si
2.44	9.174	1961	3.374	0.368	3.05	SLD 1	Si
2.75	9.174	1961	3.374	0.368	3.05	SLD 1	Si
3.05	9.174	1961	3.374	0.368	3.05	SLD 1	Si
3.35	9.174	1961	3.374	0.368	3.05	SLD 1	Si
3.66	9.174	1961	3.374	0.368	3.05	SLD 1	Si
3.96	9.174	1961	3.374	0.368	3.05	SLD 1	Si
4.27	9.174	1961	3.374	0.368	3.05	SLD 1	Si
4.57	9.174	1961	3.374	0.368	3.05	SLD 1	Si
4.88	9.174	1961	3.374	0.368	3.05	SLD 1	Si

Quota	Molt.	TR	I.R.TR	PGA	I.R.PGA	Comb.	
5.18	9.174	1961	3.374	0.368	3.05	SLD 1	Si
5.49	9.174	1961	3.374	0.368	3.05	SLD 1	Si
5.79	13.51	1961	3.374	0.368	3.05	SLD 1	Si
6.1	13.51	1961	3.374	0.368	3.05	SLD 1	Si
6.4	13.51	1961	3.374	0.368	3.05	SLD 1	Si

1.1.22.4 Verifiche nodi trave colonna

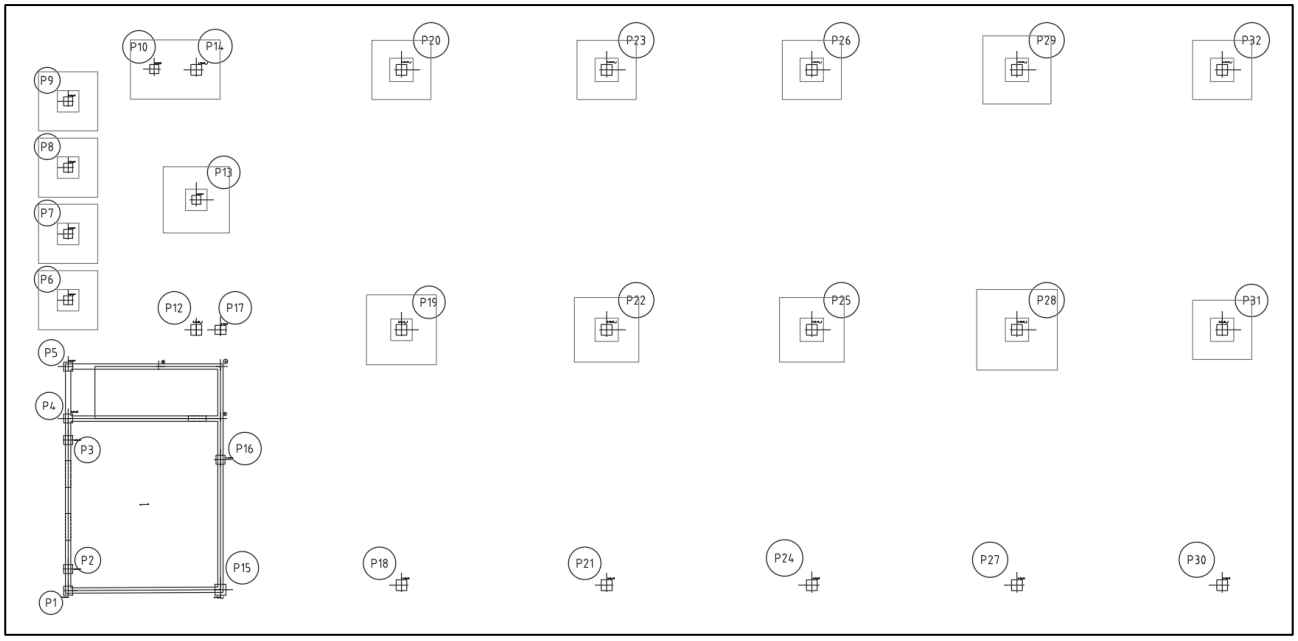
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

1.1.22.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

2 NUOVI PILASTRI

Le verifiche SLV che si riportano di seguito fanno riferimento ad una sollecitazione sismica pari al 100% di quella prevista dalla normativa.
Come riportato nella relazione principale, la normativa richiede per l'adeguamento il raggiungimento di ζ≥0,80, dove ζ è il rapporto tra l'azione sismica massima sopportabile dalla struttura e l'azione sismica massima che si utilizzerebbe nel progetto di una nuova costruzione.
Per i pilastri che vengono parzialmente inglobati all'interno di setti in c.a. si riporteranno le verifiche delle sezioni che emergono da tali elementi. Non vengono riportate le verifiche dei pilastri completamente collegati ai setti in c.a. in quanto non significative.



2.1 VERIFICHE PILASTRATE C.A.

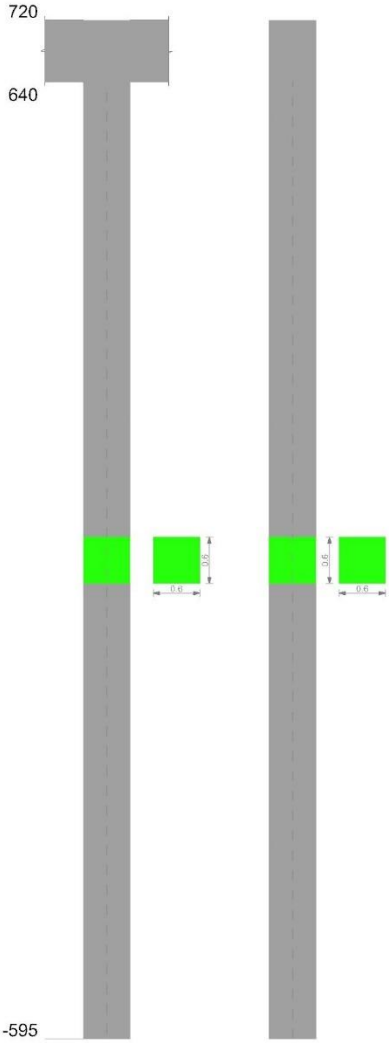
Le unità di misura elencate nel capitolo sono in [m, kN] ove non espressamente specificato.

***Q.inf.**: quota inferiore. [m]*
***Q.sup.**: quota superiore. [m]*
***Sezione**: sezione impiegata.*
***Esistente**: campata esistente.*
***Secondaria**: campata secondaria.*
***Dissipativa**: campata dissipativa.*
***Interna a parete**: campata adiacente ad una parete in c.a.*
***Sovraresistenza**: aliquota di sovraresistenza da assicurare in verifica.*
***Materiale CLS**: materiale calcestruzzo impiegato.*
***Materiale Acciaio**: materiale/i acciaio impiegato/i.*
***FC**: fattore di confidenza riferito al materiale CLS.*
***Posizione**: posizione della barra.*
***X**: ascissa relativa della barra rispetto al baricentro della sezione. [m]*
***Y**: ordinata relativa della barra rispetto al baricentro della sezione. [m]*
***Diametro**: diametro nominale della barra. [m]*
***Area**: area nominale della barra. [m²]*
***Q.inf.**: quota inferiore della barra. [m]*
***Q.sup.**: quota superiore della barra. [m]*
***Materiale**: materiale della barra.*
***Quota**: quota della sezione. [m]*
***As**: area complessiva delle armature verticali. [m²]*
***%**: percentuale di acciaio.*
***At**: area delle armature verticali destinata alla verifica di torsione. [m²]*
***Pos.**: posizioni barre longitudinali presenti nella sezione.*
***Mx**: momento Mx. [kN*m]*
***My**: momento My. [kN*m]*
***N**: sforzo normale. [kN]*
***MRdx**: momento resistente in direzione X. [kN*m]*

***MRdy**: momento resistente in direzione Y. [kN*m]*
***Comb.**: combinazione peggiore.*
***Coeff.s.**: coefficiente di sicurezza minimo.*
***Verifica**: stato di verifica.*
***ε,cu**: deformazione ultima utilizzata per il calcestruzzo [‰].*
***ε,fk**: deformazione ultima utilizzata per l'acciaio [‰].*
***C.S.**: coefficiente di sicurezza minimo.*
***Nmin**: compressione massima. [kN]*
***Nlim**: compressione limite. [kN]*
***Comb.Nmin**: combinazione in cui si ottiene la compressione massima.*
***Ver.**: stato di verifica.*
***Staffe**: staffatura presente nella sezione.*
***Direzione X**: dati della verifica a taglio in direzione X.*
***V**: taglio di verifica per la direzione considerata. [kN]*
***N**: sforzo normale per la verifica nella direzione considerata. [kN]*
***Comb.**: combinazione per la verifica nella direzione considerata.*
***VRd**: resistenza a taglio del calcestruzzo non staffato per la verifica nella direzione considerata. [kN]*
***VRsd**: resistenza a taglio delle staffe per la verifica nella direzione considerata. [kN]*
***VRcd**: resistenza a taglio delle bielle compresse per la verifica nella direzione considerata. [kN]*
***Cot**: cotagente delle bielle compresse per la verifica nella direzione considerata.*
***c.s.**: coefficiente di sicurezza per la verifica nella direzione considerata.*
***Direzione Y**: dati della verifica a taglio in direzione Y.*
***σc,max**: tensione massima sul calcestruzzo. [kN/m²]*
***σf,max**: tensione massima sull'acciaio. [kN/m²]*

2.1.1 Pilastrata P18

Geometria



2.1.1.1 Dati della pilastrata

2.1.1.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.95	6.4	R 60x60	No	No	No	No		C30/37	B450C	

2.1.1.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.2	-0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.2	0	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.3	-0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	-0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.5	-0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.6	-0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C

2.1.1.2 Controlli geometrici NTC18

Nessuna anomalia

2.1.1.3 Verifiche delle sezioni

2.1.1.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	-38.0008	-38.0008	-596.09	-394.0555	-394.0555	SLU 17	10.37	Si
-5.9	0.007238	4	0	1,2	-37.9597	-37.9597	-595.45	-394.0555	-394.0555	SLU 17	10.381	Si
-5.6	0.007238	4	0	1,2	-37.7397	-37.7397	-592	-394.0555	-394.0555	SLU 17	10.441	Si
-5.3	0.007238	4	0	1,2	-37.5159	-37.5159	-588.49	-394.0555	-394.0555	SLU 17	10.504	Si
-5	0.007238	4	0	1,2	-37.2922	-37.2922	-584.98	-394.0555	-394.0555	SLU 17	10.567	Si
-4.7	0.007238	2	0	2	-37.0684	-37.0684	-581.47	-394.0555	-394.0555	SLU 17	10.63	Si
-4.4	0.007238	2	0	2	-36.8447	-36.8447	-577.96	-394.0555	-394.0555	SLU 17	10.695	Si
-4.1	0.007238	2	0	2	-36.6209	-36.6209	-574.45	-394.0555	-394.0555	SLU 17	10.76	Si
-3.8	0.007238	2	0	2	-36.3971	-36.3971	-570.94	-394.0555	-394.0555	SLU 17	10.827	Si
-3.5	0.007238	2	0	2	-36.1734	-36.1734	-567.43	-394.0555	-394.0555	SLU 17	10.894	Si
-3.2	0.007238	2	0	2	-35.9496	-35.9496	-563.92	-394.0555	-394.0555	SLU 17	10.961	Si
-2.9	0.007709	3.5	0	2,6	-35.7264	-35.7264	-560.41	-402.1727	-402.1727	SLU 17	11.257	Si
-2.6	0.009123	3.5	0	2,6	-35.5021	-35.5021	-556.9	-426.4811	-426.4811	SLU 17	12.013	Si
-2.3	0.010537	3.5	0	2,6	-35.2783	-35.2783	-553.39	-450.6886	-450.6886	SLU 17	12.775	Si
-2	0.011951	3.5	0	2,6	-35.0546	-35.0546	-549.88	-474.8868	-474.8868	SLU 17	13.547	Si
-1.7	0.012667	3.5	0	2,6	-34.8308	-34.8308	-546.37	-487.1442	-487.1442	SLU 17	13.986	Si
-1.4	0.012667	3.5	0	2,6	-34.607	-34.607	-542.86	-487.1442	-487.1442	SLU 17	14.076	Si
-1.1	0.012667	3.5	0	2,6	-34.3833	-34.3833	-539.35	-487.1442	-487.1442	SLU 17	14.168	Si
-1.01	0.012667	3.5	0	2,6	-34.3195	-34.3195	-538.35	-487.1442	-487.1442	SLU 17	14.194	Si
-0.8	0.012667	3.5	0	2,6	-34.1595	-34.1595	-535.84	-487.1442	-487.1442	SLU 17	14.261	Si
-0.5	0.012667	3.5	0	2,6	-33.9357	-33.9357	-532.33	-487.1442	-487.1442	SLU 17	14.355	Si
-0.2	0.012667	3.5	0	2,6	-33.712	-33.712	-528.82	-487.1442	-487.1442	SLU 17	14.45	Si
0.1	0.012667	3.5	0	2,6	-33.4882	-33.4882	-525.31	-487.1442	-487.1442	SLU 17	14.547	Si
0.4	0.012422	5.5	0	2,3,4,6	-33.2645	-33.2645	-521.8	-482.9511	-482.9511	SLU 17	14.519	Si
0.7	0.011008	5.5	0	2,3,4,6	-33.0407	-33.0407	-518.29	-458.7556	-458.7556	SLU 17	13.885	Si
1	0.009594	5.5	0	2,3,4,6	-32.8169	-32.8169	-514.78	-434.5514	-434.5514	SLU 17	13.242	Si
1.3	0.008181	5.5	0	2,3,4,6	-32.5932	-32.5932	-511.27	-410.2861	-410.2861	SLU 17	12.588	Si
1.6	0.007238	2	0	3,4	-32.3694	-32.3694	-507.76	-394.0555	-394.0555	SLU 17	12.174	Si
1.9	0.007238	2	0	3,4	-32.1456	-32.1456	-504.25	-394.0555	-394.0555	SLU 17	12.258	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
2.2	0.007238	2	0	3,4	-31.9219	-31.9219	-500.74	-394.0555	-394.0555	SLU 17	12.344	Si
2.5	0.007238	2	0	3,4	-31.6981	-31.6981	-497.23	-394.0555	-394.0555	SLU 17	12.432	Si
2.8	0.007238	2	0	3,4	-31.4744	-31.4744	-493.72	-394.0555	-394.0555	SLU 17	12.52	Si
3.1	0.007238	2	0	3,4	-31.2506	-31.2506	-490.21	-394.0555	-394.0555	SLU 17	12.61	Si
3.4	0.007238	2	0	3,4	-31.028	-31.028	-486.71	-394.0555	-394.0555	SLU 17	12.7	Si
3.7	0.007238	2	0	3,4	-30.8031	-30.8031	-483.19	-394.0555	-394.0555	SLU 17	12.793	Si
4	0.007238	2	0	3,4	-30.5793	-30.5793	-479.68	-394.0555	-394.0555	SLU 17	12.886	Si
4.3	0.007238	2	0	3,4	-30.3555	-30.3555	-476.17	-394.0555	-394.0555	SLU 17	12.981	Si
4.6	0.007238	2	0	3,4	-30.1318	-30.1318	-472.66	-394.0555	-394.0555	SLU 17	13.078	Si
4.9	0.007238	2	0	3,4	-29.908	-29.908	-469.15	-394.0555	-394.0555	SLU 17	13.176	Si
5.2	0.007238	2	0	3,4	-29.6843	-29.6843	-465.64	-394.0555	-394.0555	SLU 17	13.275	Si
5.5	0.007238	2	0	3,4	-29.4605	29.4605	-462.13	-394.0555	394.0555	SLU 17	13.376	Si
5.8	0.007238	2	0	3,4	-29.2367	29.2367	-458.62	-394.0555	394.0555	SLU 17	13.478	Si
6.1	0.007238	2	0	3,4	-29.013	29.013	-455.11	-394.0555	394.0555	SLU 17	13.582	Si
6.4	0.007238	2	0	3,4	-28.7929	28.7929	-451.65	-394.0555	394.0555	SLU 17	13.686	Si

2.1.1.3.2 Verifica a pressoflessione in SLV (domini sostanzialmente elastici)

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-5.95	0.007238	4	0	1,2	0	0	-342.74	-2.02	1.92	0	0	SLV 9	22.887				Si
-5.9	0.007238	4	0	1,2	6.0615	-1.8279	-342.25	-2.02	1.92	138.927	-41.8957	SLV 9	22.92				Si
-5.6	0.007238	4	0	1,2	-11.9258	38.7715	-339.59	-2.02	1.92	-162.8203	529.3377	SLV 4	13.653				Si
-5.3	0.007238	4	0	1,2	-22.1479	72.0042	-336.89	-2.02	1.92	-190.4212	619.0697	SLV 4	8.598				Si
-5	0.007238	4	0	1,2	-32.3701	105.2369	-334.19	-2.02	1.92	-196.8736	640.047	SLV 4	6.082				Si
-4.7	0.007238	2	0	2	-42.5922	138.4695	-331.49	-2.02	1.92	-199.7468	649.3878	SLV 4	4.69				Si
-4.4	0.007238	2	0	2	-52.8143	171.7022	-328.79	-2.02	1.92	-192.9105	627.1626	SLV 4	3.653				Si
-4.1	0.007238	2	0	2	-63.0364	204.9349	-326.09	-2.02	1.92	-182.0263	591.7774	SLV 4	2.888				Si
-3.8	0.007238	2	0	2	-73.2586	238.1676	-323.39	-2.02	1.92	-174.5184	567.3688	SLV 4	2.382				Si
-3.5	0.007238	2	0	2	-83.4807	271.4003	-320.69	-2.02	1.92	-169.1089	549.7823	SLV 4	2.026				Si
-3.2	0.007238	2	0	2	-93.7028	304.633	-317.99	-2.02	1.92	-164.9731	536.3368	SLV 4	1.761				Si
-2.9	0.007709	3.5	0	2,6	-103.8975	337.7764	-315.3	-2.02	1.92	-169.7145	551.7511	SLV 4	1.633				Si
-2.6	0.009123	3.5	0	2,6	-114.1471	371.0984	-312.59	-2.02	1.92	-190.2928	618.6525	SLV 4	1.667				Si
-2.3	0.010537	3.5	0	2,6	-124.3692	404.3311	-309.89	-2.02	1.92	-210.495	684.331	SLV 4	1.693				Si
-2	0.011951	3.5	0	2,6	-134.5913	437.5638	-307.19	-2.02	1.92	-230.4053	749.0603	SLV 4	1.712				Si
-1.7	0.012667	3.5	0	2,6	-144.8134	470.7965	-304.49	-2.02	1.92	-239.5007	778.6299	SLV 4	1.654				Si
-1.4	0.012667	3.5	0	2,6	-155.0356	504.0292	-301.79	-2.02	1.92	-237.8115	773.1384	SLV 4	1.534				Si
-1.1	0.012667	3.5	0	2,6	-165.2577	537.2619	-299.09	-2.02	1.92	-236.3508	768.3896	SLV 4	1.43				Si
-1.01	0.012667	3.5	0	2,6	-168.1705	546.7314	-298.32	-2.02	1.92	-235.9701	767.1518	SLV 4	1.403				Si
-0.8	0.012667	3.5	0	2,6	-165.6223	538.4604	-296.39	-2.02	1.92	-236.1306	767.6925	SLV 4	1.426				Si
-0.5	0.012667	3.5	0	2,6	-158.9457	516.7775	-293.69	-2.02	1.92	-236.7393	769.7065	SLV 4	1.489				Si
-0.2	0.012667	3.5	0	2,6	-152.2692	495.0945	-290.99	-2.02	1.92	-237.405	771.9089	SLV 4	1.559				Si
0.1	0.012667	3.5	0	2,6	-145.5926	473.4115	-288.29	-2.02	1.92	-238.1361	774.3275	SLV 4	1.636				Si
0.4	0.012422	5.5	0	2,3,4,6	-138.9161	451.7285	-285.59	-2.02	1.92	-235.1937	764.8049	SLV 4	1.693				Si
0.7	0.011008	5.5	0	2,3,4,6	-132.2395	430.0456	-282.89	-2.02	1.92	-214.2682	696.8043	SLV 4	1.62				Si
1	0.009594	5.5	0	2,3,4,6	-125.563	408.3626	-280.19	-2.02	1.92	-192.9153	627.4094	SLV 4	1.536				Si
1.3	0.008181	5.5	0	2,3,4,6	-118.8865	386.6796	-277.49	-2.02	1.92	-171.1643	556.714	SLV 4	1.44				Si
1.6	0.007238	2	0	3,4	-112.2099	364.9967	-274.79	-2.02	1.92	-156.6947	509.6968	SLV 4	1.396				Si
1.9	0.007238	2	0	3,4	-105.5334	343.3137	-272.09	-2.02	1.92	-157.7635	513.2251	SLV 4	1.495				Si
2.2	0.007238	2	0	3,4	-98.8568	321.6307	-269.39	-2.02	1.92	-158.9945	517.2888	SLV 4	1.608				Si
2.5	0.007238	2	0	3,4	-92.1803	299.9477	-266.69	-2.02	1.92	-160.4277	522.0199	SLV 4	1.74				Si
2.8	0.007238	2	0	3,4	-85.5037	278.2648	-263.99	-2.02	1.92	-162.0937	527.5205	SLV 4	1.896				Si
3.1	0.007238	2	0	3,4	-78.8272	256.5818	-261.29	-2.02	1.92	-164.07	534.0464	SLV 4	2.081				Si

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.4	0.007238	2	0	3,4	-72.1866	235.0154	-258.6	-2.02	1.92	-166.4594	541.9364	SLV 4	2.306				Si
3.7	0.007238	2	0	3,4	-65.4741	213.2159	-255.89	-2.02	1.92	-169.456	551.8321	SLV 4	2.588				Si
4	0.007238	2	0	3,4	-58.7976	191.5329	-253.19	-2.02	1.92	-173.1372	563.9939	SLV 4	2.945				Si
4.3	0.007238	2	0	3,4	-52.121	169.8499	-250.49	-2.02	1.92	-177.8805	579.6697	SLV 4	3.413				Si
4.6	0.007238	2	0	3,4	-45.4445	148.167	-247.79	-2.02	1.92	-184.3646	601.101	SLV 4	4.057				Si
4.9	0.007238	2	0	3,4	-38.768	126.484	-245.09	-2.02	1.92	-193.179	630.2636	SLV 4	4.983				Si
5.2	0.007238	2	0	3,4	-32.0915	104.801	-242.39	-2.02	1.92	-199.3038	650.8659	SLV 4	6.21				Si
5.5	0.007238	2	0	3,4	-25.415	83.1181	-239.69	-2.02	1.92	-197.0447	644.4225	SLV 4	7.753				Si
5.8	0.007238	2	0	3,4	-18.7385	61.4351	-236.99	-2.02	1.92	-192.8367	632.2254	SLV 4	10.291				Si
6.1	0.007238	2	0	3,4	-12.0621	39.7521	-234.29	-2.02	1.92	-181.4769	598.0771	SLV 4	15.045				Si
6.4	0.007238	2	0	3,4	-5.4904	18.4305	-231.63	-2.02	1.92	-131.6577	441.9582	SLV 4	23.98				Si

2.1.1.3.3 Verifica a pressoflessione in SLD

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	0	0	-342.74	0	0	SLD 9	22.887	Si
-5.9	0.007238	4	0	1,2	2.4067	-0.7253	-342.25	55.16	-16.624	SLD 9	22.92	Si
-5.6	0.007238	4	0	1,2	-4.7493	15.3842	-339.59	-93.272	302.1338	SLD 4	19.639	Si
-5.3	0.007238	4	0	1,2	-8.8201	28.5707	-336.89	-141.1429	457.2007	SLD 4	16.002	Si
-5	0.007238	4	0	1,2	-12.8909	41.7571	-334.19	-169.1137	547.8055	SLD 4	13.119	Si
-4.7	0.007238	2	0	2	-16.9617	54.9436	-331.49	-183.2636	593.6411	SLD 4	10.805	Si
-4.4	0.007238	2	0	2	-21.0325	68.13	-328.79	-190.2431	616.2498	SLD 4	9.045	Si
-4.1	0.007238	2	0	2	-25.1033	81.3165	-326.09	-194.0882	628.705	SLD 4	7.732	Si
-3.8	0.007238	2	0	2	-29.1741	94.503	-323.39	-196.4893	636.4826	SLD 4	6.735	Si
-3.5	0.007238	2	0	2	-33.2449	107.6894	-320.69	-198.1945	642.0063	SLD 4	5.962	Si
-3.2	0.007238	2	0	2	-37.3157	120.8759	-317.99	-199.4876	646.1951	SLD 4	5.346	Si
-2.9	0.007709	3.5	0	2,6	-41.3756	134.0269	-315.3	-205.8818	666.9075	SLD 4	4.976	Si
-2.6	0.009123	3.5	0	2,6	-45.4573	147.2488	-312.59	-223.0647	722.5677	SLD 4	4.907	Si
-2.3	0.010537	3.5	0	2,6	-49.5282	160.4353	-309.89	-240.2476	778.228	SLD 4	4.851	Si
-2	0.011951	3.5	0	2,6	-53.599	173.6217	-307.19	-257.4154	833.839	SLD 4	4.803	Si
-1.7	0.012667	3.5	0	2,6	-57.6698	186.8082	-304.49	-266.7624	864.1167	SLD 4	4.626	Si
-1.4	0.012667	3.5	0	2,6	-61.7406	199.9947	-301.79	-267.928	867.8925	SLD 4	4.34	Si
-1.1	0.012667	3.5	0	2,6	-65.8114	213.1811	-299.09	-267.1931	865.5116	SLD 4	4.06	Si
-1.01	0.012667	3.5	0	2,6	-66.9713	216.9385	-298.32	-267.0007	864.8884	SLD 4	3.987	Si
-0.8	0.012667	3.5	0	2,6	-65.9567	213.6567	-296.39	-267.0792	865.163	SLD 4	4.049	Si
-0.5	0.012667	3.5	0	2,6	-63.298	205.0531	-293.69	-267.3819	866.1805	SLD 4	4.224	Si
-0.2	0.012667	3.5	0	2,6	-60.6393	196.4494	-290.99	-267.7123	867.2911	SLD 4	4.415	Si
0.1	0.012667	3.5	0	2,6	-57.9806	187.8458	-288.29	-267.6791	867.2278	SLD 4	4.617	Si
0.4	0.012422	5.5	0	2,3,4,6	-55.3219	179.2422	-285.59	-264.3176	856.3848	SLD 4	4.778	Si
0.7	0.011008	5.5	0	2,3,4,6	-52.6633	170.6386	-282.89	-247.5349	802.0582	SLD 4	4.7	Si
1	0.009594	5.5	0	2,3,4,6	-50.0046	162.0349	-280.19	-228.5261	740.5164	SLD 4	4.57	Si
1.3	0.008181	5.5	0	2,3,4,6	-47.3459	153.4313	-277.49	-206.9497	670.6507	SLD 4	4.371	Si
1.6	0.007238	2	0	3,4	-44.6872	144.8277	-274.79	-192.7674	624.7435	SLD 4	4.314	Si
1.9	0.007238	2	0	3,4	-42.0285	136.2241	-272.09	-196.2827	636.1967	SLD 4	4.67	Si
2.2	0.007238	2	0	3,4	-39.3699	127.6204	-269.39	-199.4077	646.3953	SLD 4	5.065	Si
2.5	0.007238	2	0	3,4	-36.7112	119.0168	-266.69	-200.6908	650.6348	SLD 4	5.467	Si
2.8	0.007238	2	0	3,4	-34.0525	110.4132	-263.99	-200.1732	649.0495	SLD 4	5.878	Si
3.1	0.007238	2	0	3,4	-31.3938	101.8096	-261.29	-199.541	647.1072	SLD 4	6.356	Si
3.4	0.007238	2	0	3,4	-28.7495	93.2522	-258.6	-198.7539	644.6813	SLD 4	6.913	Si
3.7	0.007238	2	0	3,4	-26.0765	84.6023	-255.89	-197.7723	641.6506	SLD 4	7.584	Si
4	0.007238	2	0	3,4	-23.4178	75.9987	-253.19	-196.5463	637.8591	SLD 4	8.393	Si
4.3	0.007238	2	0	3,4	-20.7591	67.3951	-250.49	-194.9638	632.9549	SLD 4	9.392	Si
4.6	0.007238	2	0	3,4	-18.1005	58.7914	-247.79	-192.7579	626.0899	SLD 4	10.649	Si
4.9	0.007238	2	0	3,4	-15.4418	50.1878	-245.09	-189.4281	615.6657	SLD 4	12.267	Si
5.2	0.007238	2	0	3,4	-12.7831	41.5842	-242.39	-183.8715	598.144	SLD 4	14.384	Si
5.5	0.007238	2	0	3,4	-10.1245	32.9806	-239.69	-173.7926	566.1318	SLD 4	17.166	Si
5.8	0.007238	2	0	3,4	-7.4658	24.3769	-236.99	-154.8771	505.6961	SLD 4	20.745	Si
6.1	0.007238	2	0	3,4	-4.8072	15.7733	-234.29	-121.2332	397.7867	SLD 4	25.219	Si
6.4	0.007238	2	0	3,4	-2.19	7.3131	-231.64	-68.6895	229.372	SLD 4	31.365	Si

2.1.1.3.4 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	0	-339.72	SLU 1	175.34	242.17	930.9	2.5	1000	0	-339.72	SLU 4	175.34	242.17	930.9	2.5	1000	Si
-5.9	2X/2Y ø8/19.9	0	-339.22	SLU 1	175.28	242.17	930.83	2.5	1000	0	-339.22	SLU 4	175.28	242.17	930.83	2.5	1000	Si
-5.6	2X/2Y ø8/19.9	0	-336.57	SLU 1	174.92	242.17	930.46	2.5	1000	0	-336.57	SLU 4	174.92	242.17	930.46	2.5	1000	Si
-5.3	2X/2Y ø8/19.9	0	-333.87	SLU 1	174.55	242.17	930.08	2.5	1000	0	-333.87	SLU 4	174.55	242.17	930.08	2.5	1000	Si
-5	2X/2Y ø8/19.9	0	-331.17	SLU 1	174.18	242.17	929.7	2.5	1000	0	-331.17	SLU 4	174.18	242.17	929.7	2.5	1000	Si
-4.7	2X/2Y ø8/19.9	0	-328.47	SLU 1	173.81	242.17	929.31	2.5	1000	0	-328.47	SLU 4	173.81	242.17	929.31	2.5	1000	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-4.4	2X/2Y ø8/19.9	0	-325.77	SLU 1	173.44	242.17	928.93	2.5	1000	0	-325.77	SLU 4	173.44	242.17	928.93	2.5	1000	Si
-4.1	2X/2Y ø8/19.9	0	-323.07	SLU 1	173.08	242.17	928.55	2.5	1000	0	-323.07	SLU 4	173.08	242.17	928.55	2.5	1000	Si
-3.8	2X/2Y ø8/19.9	0	-320.37	SLU 1	172.71	242.17	928.17	2.5	1000	0	-320.37	SLU 4	172.71	242.17	928.17	2.5	1000	Si
-3.5	2X/2Y ø8/19.9	0	-317.67	SLU 1	172.34	242.17	927.79	2.5	1000	0	-317.67	SLU 4	172.34	242.17	927.79	2.5	1000	Si
-3.2	2X/2Y ø8/19.9	0	-314.97	SLU 1	171.97	242.17	927.41	2.5	1000	0	-314.97	SLU 4	171.97	242.17	927.41	2.5	1000	Si
-2.9	2X/2Y ø8/19.9	0	-312.27	SLU 1	171.61	242.17	927.03	2.5	1000	0	-312.27	SLU 4	171.61	242.17	927.03	2.5	1000	Si
-2.6	2X/2Y ø8/19.9	0	-309.57	SLU 1	171.24	242.17	926.65	2.5	1000	0	-309.57	SLU 4	171.24	242.17	926.65	2.5	1000	Si
-2.3	2X/2Y ø8/19.9	0	-306.87	SLU 1	170.87	242.17	926.27	2.5	1000	0	-306.87	SLU 4	170.87	242.17	926.27	2.5	1000	Si
-2	2X/2Y ø8/19.9	0	-304.17	SLU 1	170.5	242.17	925.89	2.5	1000	0	-304.17	SLU 4	170.5	242.17	925.89	2.5	1000	Si
-1.7	2X/2Y ø8/19.9	0	-301.47	SLU 1	170.13	242.17	925.51	2.5	1000	0	-301.47	SLU 4	170.13	242.17	925.51	2.5	1000	Si
-1.4	2X/2Y ø8/19.9	0	-298.77	SLU 1	169.77	242.17	925.13	2.5	1000	0	-298.77	SLU 4	169.76	242.17	925.13	2.5	1000	Si
-1.1	2X/2Y ø8/19.9	0	-296.07	SLU 1	169.4	242.17	924.75	2.5	1000	0	-296.07	SLU 4	169.4	242.17	924.75	2.5	1000	Si
-1.01	2X/2Y ø8/19.9	0	-295.3	SLU 1	169.29	242.17	924.64	2.5	1000	0	-295.3	SLU 4	169.29	242.17	924.64	2.5	1000	Si
-0.8	2X/2Y ø8/19.9	0	-293.37	SLU 1	169.03	242.17	924.37	2.5	1000	0.01	-293.37	SLU 1	169.03	242.17	924.37	2.5	1000	Si
-0.5	2X/2Y ø8/19.9	0	-290.67	SLU 1	168.66	242.17	923.99	2.5	1000	0.01	-290.67	SLU 1	168.66	242.17	923.99	2.5	1000	Si
-0.2	2X/2Y ø8/19.9	0	-287.97	SLU 1	168.29	242.17	923.61	2.5	1000	0.01	-287.97	SLU 1	168.29	242.17	923.61	2.5	1000	Si
0.1	2X/2Y ø8/19.9	0	-285.27	SLU 1	167.93	242.17	923.23	2.5	1000	0.01	-285.27	SLU 1	167.93	242.17	923.23	2.5	1000	Si
0.4	2X/2Y ø8/19.9	0	-282.57	SLU 1	167.56	242.17	922.85	2.5	1000	0.01	-282.57	SLU 1	167.56	242.17	922.85	2.5	1000	Si
0.7	2X/2Y ø8/19.9	0	-279.87	SLU 1	167.19	242.17	922.46	2.5	1000	0.01	-279.87	SLU 1	167.19	242.17	922.46	2.5	1000	Si
1	2X/2Y ø8/19.9	0	-277.17	SLU 1	166.82	242.17	922.08	2.5	1000	0.01	-277.17	SLU 1	166.82	242.17	922.08	2.5	1000	Si
1.3	2X/2Y ø8/19.9	0	-274.47	SLU 1	166.45	242.17	921.7	2.5	1000	0.01	-274.47	SLU 1	166.45	242.17	921.7	2.5	1000	Si
1.6	2X/2Y ø8/19.9	0	-271.77	SLU 1	166.09	242.17	921.32	2.5	1000	0.01	-271.77	SLU 1	166.09	242.17	921.32	2.5	1000	Si
1.9	2X/2Y ø8/19.9	0	-269.07	SLU 1	165.72	242.17	920.94	2.5	1000	0.01	-269.07	SLU 1	165.72	242.17	920.94	2.5	1000	Si
2.2	2X/2Y ø8/19.9	0	-266.37	SLU 1	165.35	242.17	920.56	2.5	1000	0.01	-266.37	SLU 1	165.35	242.17	920.56	2.5	1000	Si
2.5	2X/2Y ø8/19.9	0	-263.67	SLU 1	164.98	242.17	920.18	2.5	1000	0.01	-263.67	SLU 1	164.98	242.17	920.18	2.5	1000	Si
2.8	2X/2Y ø8/19.9	0	-260.97	SLU 1	164.61	242.17	919.8	2.5	1000	0.01	-260.97	SLU 1	164.61	242.17	919.8	2.5	1000	Si
3.1	2X/2Y ø8/19.9	0	-258.27	SLU 1	164.25	242.17	919.42	2.5	1000	0.01	-258.27	SLU 1	164.25	242.17	919.42	2.5	1000	Si
3.4	2X/2Y ø8/19.9	0	-255.58	SLU 1	163.88	242.17	919.04	2.5	1000	0.01	-255.58	SLU 1	163.88	242.17	919.04	2.5	1000	Si
3.7	2X/2Y ø8/19.9	0	-252.87	SLU 1	163.51	242.17	918.66	2.5	1000	0.01	-252.87	SLU 1	163.51	242.17	918.66	2.5	1000	Si
4	2X/2Y ø8/19.9	0	-250.17	SLU 1	163.14	242.17	918.28	2.5	1000	0.01	-250.17	SLU 1	163.14	242.17	918.28	2.5	1000	Si
4.3	2X/2Y ø8/19.9	0	-247.47	SLU 1	162.78	242.17	917.9	2.5	1000	0.01	-247.47	SLU 1	162.78	242.17	917.9	2.5	1000	Si
4.6	2X/2Y ø8/19.9	0	-244.77	SLU 1	162.41	242.17	917.52	2.5	1000	0.01	-244.77	SLU 1	162.41	242.17	917.52	2.5	1000	Si
4.9	2X/2Y ø8/19.9	0	-242.07	SLU 1	162.04	242.17	917.14	2.5	1000	0.01	-242.07	SLU 1	162.04	242.17	917.14	2.5	1000	Si
5.2	2X/2Y ø8/19.9	0	-239.37	SLU 1	161.67	242.17	916.76	2.5	1000	0.01	-239.37	SLU 1	161.67	242.17	916.76	2.5	1000	Si
5.5	2X/2Y ø8/19.9	0	-236.67	SLU 1	161.3	242.17	916.38	2.5	1000	0.01	-236.67	SLU 1	161.3	242.17	916.38	2.5	1000	Si
5.8	2X/2Y ø8/19.9	0	-233.97	SLU 1	160.94	242.17	916	2.5	1000	0.01	-233.97	SLU 1	160.94	242.17	916	2.5	1000	Si
6.1	2X/2Y ø8/19.9	0	-231.27	SLU 1	160.57	242.17	915.61	2.5	1000	0.01	-231.27	SLU 1	160.57	242.17	915.61	2.5	1000	Si
6.4	2X/2Y ø8/19.9	0	-228.61	SLU 1	160.21	242.17	915.24	2.5	1000	0.01	-228.61	SLU 1	160.21	242.17	915.24	2.5	1000	Si

2.1.1.3.5 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	-110.78	-342.74	SLV 14	175.76	242.17	931.33	2.5	2.19	-110.23	-342.74	SLV 8	175.76	242.17	931.33	2.5	2.2	Si
-5.9	2X/2Y ø8/19.9	-110.78	-342.25	SLV 14	175.69	242.17	931.26	2.5	2.19	-110.23	-342.24	SLV 8	175.69	242.17	931.26	2.5	2.2	Si
-5.6	2X/2Y ø8/19.9	-110.78	-339.59	SLV 14	175.33	242.17	930.88	2.5	2.19	-110.23	-339.59	SLV 8	175.33	242.17	930.88	2.5	2.2	Si
-5.3	2X/2Y ø8/19.9	-110.78	-336.89	SLV 14	174.96	242.17	930.5	2.5	2.19	-110.23	-336.89	SLV 8	174.96	242.17	930.5	2.5	2.2	Si
-5	2X/2Y ø8/19.9	-110.78	-334.19	SLV 14	174.59	242.17	930.12	2.5	2.19	-110.23	-334.19	SLV 8	174.59	242.17	930.12	2.5	2.2	Si
-4.7	2X/2Y ø8/19.9	-110.78	-331.49	SLV 14	174.22	242.17	929.74	2.5	2.19	-110.23	-331.49	SLV 8	174.22	242.17	929.74	2.5	2.2	Si
-4.4	2X/2Y ø8/19.9	-110.78	-328.79	SLV 14	173.86	242.17	929.36	2.5	2.19	-110.23	-328.79	SLV 8	173.86	242.17	929.36	2.5	2.2	Si
-4.1	2X/2Y ø8/19.9	-110.78	-326.09	SLV 14	173.49	242.17	928.98	2.5	2.19	-110.23	-326.09	SLV 8	173.49	242.17	928.98	2.5	2.2	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.8	2X/2Y ø8/19.9	-110.78	-323.39	SLV 14	173.12	242.17	928.6	2.5	2.19	-110.23	-323.39	SLV 8	173.12	242.17	928.6	2.5	2.2	Si
-3.5	2X/2Y ø8/19.9	-110.78	-320.69	SLV 14	172.75	242.17	928.22	2.5	2.19	-110.23	-320.69	SLV 8	172.75	242.17	928.22	2.5	2.2	Si
-3.2	2X/2Y ø8/19.9	-110.78	-317.99	SLV 14	172.38	242.17	927.84	2.5	2.19	-110.23	-317.99	SLV 8	172.38	242.17	927.84	2.5	2.2	Si
-2.9	2X/2Y ø8/19.9	-110.78	-315.3	SLV 14	172.02	242.17	927.46	2.5	2.19	-110.23	-315.3	SLV 8	172.02	242.17	927.46	2.5	2.2	Si
-2.6	2X/2Y ø8/19.9	-110.78	-312.59	SLV 14	171.65	242.17	927.08	2.5	2.19	-110.23	-312.59	SLV 8	171.65	242.17	927.08	2.5	2.2	Si
-2.3	2X/2Y ø8/19.9	-110.78	-309.89	SLV 14	171.28	242.17	926.7	2.5	2.19	-110.23	-309.89	SLV 8	171.28	242.17	926.7	2.5	2.2	Si
-2	2X/2Y ø8/19.9	-110.78	-307.19	SLV 14	170.91	242.17	926.32	2.5	2.19	-110.23	-307.19	SLV 8	170.91	242.17	926.32	2.5	2.2	Si
-1.7	2X/2Y ø8/19.9	-110.78	-304.49	SLV 14	170.55	242.17	925.94	2.5	2.19	-110.23	-304.49	SLV 8	170.54	242.17	925.94	2.5	2.2	Si
-1.4	2X/2Y ø8/19.9	-110.78	-301.79	SLV 14	170.18	242.17	925.56	2.5	2.19	-110.23	-301.79	SLV 8	170.18	242.17	925.56	2.5	2.2	Si
-1.1	2X/2Y ø8/19.9	-110.78	-299.09	SLV 14	169.81	242.17	925.17	2.5	2.19	-110.23	-299.09	SLV 8	169.81	242.17	925.17	2.5	2.2	Si
-1.01	2X/2Y ø8/19.9	-110.78	-298.32	SLV 14	169.7	242.17	925.07	2.5	2.19	-110.23	-298.32	SLV 8	169.7	242.17	925.07	2.5	2.2	Si
-0.8	2X/2Y ø8/19.9	72.28	-296.39	SLV 14	169.44	242.17	924.79	2.5	3.35	71.99	-296.39	SLV 8	169.44	242.17	924.79	2.5	3.36	Si
-0.5	2X/2Y ø8/19.9	72.28	-293.69	SLV 14	169.07	242.17	924.41	2.5	3.35	71.99	-293.69	SLV 8	169.07	242.17	924.41	2.5	3.36	Si
-0.2	2X/2Y ø8/19.9	72.28	-290.99	SLV 14	168.71	242.17	924.03	2.5	3.35	71.99	-290.99	SLV 8	168.71	242.17	924.03	2.5	3.36	Si
0.1	2X/2Y ø8/19.9	72.28	-288.29	SLV 14	168.34	242.17	923.65	2.5	3.35	71.99	-288.29	SLV 8	168.34	242.17	923.65	2.5	3.36	Si
0.4	2X/2Y ø8/19.9	72.28	-285.59	SLV 14	167.97	242.17	923.27	2.5	3.35	71.99	-285.59	SLV 8	167.97	242.17	923.27	2.5	3.36	Si
0.7	2X/2Y ø8/19.9	72.28	-282.89	SLV 14	167.6	242.17	922.89	2.5	3.35	71.99	-282.89	SLV 8	167.6	242.17	922.89	2.5	3.36	Si
1	2X/2Y ø8/19.9	72.28	-280.19	SLV 14	167.23	242.17	922.51	2.5	3.35	71.99	-280.19	SLV 8	167.23	242.17	922.51	2.5	3.36	Si
1.3	2X/2Y ø8/19.9	72.28	-277.49	SLV 14	166.87	242.17	922.13	2.5	3.35	71.99	-277.49	SLV 8	166.87	242.17	922.13	2.5	3.36	Si
1.6	2X/2Y ø8/19.9	72.28	-274.79	SLV 14	166.5	242.17	921.75	2.5	3.35	71.99	-274.79	SLV 8	166.5	242.17	921.75	2.5	3.36	Si
1.9	2X/2Y ø8/19.9	72.28	-272.09	SLV 14	166.13	242.17	921.37	2.5	3.35	71.99	-272.09	SLV 8	166.13	242.17	921.37	2.5	3.36	Si
2.2	2X/2Y ø8/19.9	72.28	-269.39	SLV 14	165.76	242.17	920.99	2.5	3.35	71.99	-269.39	SLV 8	165.76	242.17	920.99	2.5	3.36	Si
2.5	2X/2Y ø8/19.9	72.28	-266.69	SLV 14	165.4	242.17	920.61	2.5	3.35	71.99	-266.69	SLV 8	165.39	242.17	920.61	2.5	3.36	Si
2.8	2X/2Y ø8/19.9	72.28	-263.99	SLV 14	165.03	242.17	920.23	2.5	3.35	71.99	-263.99	SLV 8	165.03	242.17	920.23	2.5	3.36	Si
3.1	2X/2Y ø8/19.9	72.28	-261.29	SLV 14	164.66	242.17	919.85	2.5	3.35	71.99	-261.29	SLV 8	164.66	242.17	919.85	2.5	3.36	Si
3.4	2X/2Y ø8/19.9	72.28	-258.61	SLV 14	164.29	242.17	919.47	2.5	3.35	71.99	-258.6	SLV 8	164.29	242.17	919.47	2.5	3.36	Si
3.7	2X/2Y ø8/19.9	72.28	-255.89	SLV 14	163.92	242.17	919.09	2.5	3.35	71.99	-255.89	SLV 8	163.92	242.17	919.09	2.5	3.36	Si
4	2X/2Y ø8/19.9	72.28	-253.19	SLV 14	163.56	242.17	918.71	2.5	3.35	71.99	-253.19	SLV 8	163.56	242.17	918.71	2.5	3.36	Si
4.3	2X/2Y ø8/19.9	72.28	-250.49	SLV 14	163.19	242.17	918.32	2.5	3.35	71.99	-250.49	SLV 8	163.19	242.17	918.32	2.5	3.36	Si
4.6	2X/2Y ø8/19.9	72.28	-247.79	SLV 14	162.82	242.17	917.94	2.5	3.35	71.99	-247.79	SLV 8	162.82	242.17	917.94	2.5	3.36	Si
4.9	2X/2Y ø8/19.9	72.28	-245.09	SLV 14	162.45	242.17	917.56	2.5	3.35	71.99	-245.09	SLV 8	162.45	242.17	917.56	2.5	3.36	Si
5.2	2X/2Y ø8/19.9	72.28	-242.39	SLV 14	162.08	242.17	917.18	2.5	3.35	71.99	-242.39	SLV 8	162.08	242.17	917.18	2.5	3.36	Si
5.5	2X/2Y ø8/19.9	72.28	-239.69	SLV 14	161.72	242.17	916.8	2.5	3.35	71.99	-239.69	SLV 8	161.72	242.17	916.8	2.5	3.36	Si
5.8	2X/2Y ø8/19.9	72.28	-236.99	SLV 14	161.35	242.17	916.42	2.5	3.35	71.99	-236.99	SLV 8	161.35	242.17	916.42	2.5	3.36	Si
6.1	2X/2Y ø8/19.9	72.28	-234.29	SLV 14	160.98	242.17	916.04	2.5	3.35	71.99	-234.29	SLV 8	160.98	242.17	916.04	2.5	3.36	Si
6.4	2X/2Y ø8/19.9	72.28	-231.64	SLV 14	160.62	242.17	915.67	2.5	3.35	71.99	-231.63	SLV 8	160.62	242.17	915.67	2.5	3.36	Si

2.1.1.3.6 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	-43.95	-342.74	SLD 14	175.76	242.17	931.33	2.5	5.51	-43.78	-342.74	SLD 8	175.76	242.17	931.33	2.5	5.53	Si
-5.9	2X/2Y ø8/19.9	-43.95	-342.25	SLD 14	175.69	242.17	931.26	2.5	5.51	-43.78	-342.25	SLD 8	175.69	242.17	931.26	2.5	5.53	Si
-5.6	2X/2Y ø8/19.9	-43.95	-339.59	SLD 14	175.33	242.17	930.88	2.5	5.51	-43.78	-339.59	SLD 8	175.33	242.17	930.88	2.5	5.53	Si
-5.3	2X/2Y ø8/19.9	-43.95	-336.89	SLD 14	174.96	242.17	930.5	2.5	5.51	-43.78	-336.89	SLD 8	174.96	242.17	930.5	2.5	5.53	Si
-5	2X/2Y ø8/19.9	-43.95	-334.19	SLD 14	174.59	242.17	930.12	2.5	5.51	-43.78	-334.19	SLD 8	174.59	242.17	930.12	2.5	5.53	Si
-4.7	2X/2Y ø8/19.9	-43.95	-331.49	SLD 14	174.22	242.17	929.74	2.5	5.51	-43.78	-331.49	SLD 8	174.22	242.17	929.74	2.5	5.53	Si
-4.4	2X/2Y ø8/19.9	-43.95	-328.79	SLD 14	173.86	242.17	929.36	2.5	5.51	-43.78	-328.79	SLD 8	173.86	242.17	929.36	2.5	5.53	Si
-4.1	2X/2Y ø8/19.9	-43.95	-326.09	SLD 14	173.49	242.17	928.98	2.5	5.51	-43.78	-326.09	SLD 8	173.49	242.17	928.98	2.5	5.53	Si
-3.8	2X/2Y ø8/19.9	-43.95	-323.39	SLD 14	173.12	242.17	928.6	2.5	5.51	-43.78	-323.39	SLD 8	173.12	242.17	928.6	2.5	5.53	Si
-3.5	2X/2Y ø8/19.9	-43.95	-320.69	SLD 14	172.75	242.17	928.22	2.5	5.51	-43.78	-320.69	SLD 8	172.75	242.17	928.22	2.5	5.53	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.2	2X/2Y ø8/19.9	-43.95	-317.99	SLD 14	172.38	242.17	927.84	2.5	5.51	-43.78	-317.99	SLD 8	172.38	242.17	927.84	2.5	5.53	Si
-2.9	2X/2Y ø8/19.9	-43.95	-315.3	SLD 14	172.02	242.17	927.46	2.5	5.51	-43.78	-315.3	SLD 8	172.02	242.17	927.46	2.5	5.53	Si
-2.6	2X/2Y ø8/19.9	-43.95	-312.59	SLD 14	171.65	242.17	927.08	2.5	5.51	-43.78	-312.59	SLD 8	171.65	242.17	927.08	2.5	5.53	Si
-2.3	2X/2Y ø8/19.9	-43.95	-309.89	SLD 14	171.28	242.17	926.7	2.5	5.51	-43.78	-309.89	SLD 8	171.28	242.17	926.7	2.5	5.53	Si
-2	2X/2Y ø8/19.9	-43.95	-307.19	SLD 14	170.91	242.17	926.32	2.5	5.51	-43.78	-307.19	SLD 8	170.91	242.17	926.32	2.5	5.53	Si
-1.7	2X/2Y ø8/19.9	-43.95	-304.49	SLD 14	170.55	242.17	925.94	2.5	5.51	-43.78	-304.49	SLD 8	170.55	242.17	925.94	2.5	5.53	Si
-1.4	2X/2Y ø8/19.9	-43.95	-301.79	SLD 14	170.18	242.17	925.56	2.5	5.51	-43.78	-301.79	SLD 8	170.18	242.17	925.56	2.5	5.53	Si
-1.1	2X/2Y ø8/19.9	-43.95	-299.09	SLD 14	169.81	242.17	925.17	2.5	5.51	-43.78	-299.09	SLD 8	169.81	242.17	925.17	2.5	5.53	Si
-1.01	2X/2Y ø8/19.9	-43.95	-298.32	SLD 14	169.7	242.17	925.07	2.5	5.51	-43.78	-298.32	SLD 8	169.7	242.17	925.07	2.5	5.53	Si
-0.8	2X/2Y ø8/19.9	28.68	-296.39	SLD 14	169.44	242.17	924.79	2.5	8.44	28.59	-296.39	SLD 8	169.44	242.17	924.79	2.5	8.47	Si
-0.5	2X/2Y ø8/19.9	28.68	-293.69	SLD 14	169.07	242.17	924.41	2.5	8.44	28.59	-293.69	SLD 8	169.07	242.17	924.41	2.5	8.47	Si
-0.2	2X/2Y ø8/19.9	28.68	-290.99	SLD 14	168.71	242.17	924.03	2.5	8.44	28.59	-290.99	SLD 8	168.71	242.17	924.03	2.5	8.47	Si
0.1	2X/2Y ø8/19.9	28.68	-288.29	SLD 14	168.34	242.17	923.65	2.5	8.44	28.59	-288.29	SLD 8	168.34	242.17	923.65	2.5	8.47	Si
0.4	2X/2Y ø8/19.9	28.68	-285.59	SLD 14	167.97	242.17	923.27	2.5	8.44	28.59	-285.59	SLD 8	167.97	242.17	923.27	2.5	8.47	Si
0.7	2X/2Y ø8/19.9	28.68	-282.89	SLD 14	167.6	242.17	922.89	2.5	8.44	28.59	-282.89	SLD 8	167.6	242.17	922.89	2.5	8.47	Si
1	2X/2Y ø8/19.9	28.68	-280.19	SLD 14	167.23	242.17	922.51	2.5	8.44	28.59	-280.19	SLD 8	167.23	242.17	922.51	2.5	8.47	Si
1.3	2X/2Y ø8/19.9	28.68	-277.49	SLD 14	166.87	242.17	922.13	2.5	8.44	28.59	-277.49	SLD 8	166.87	242.17	922.13	2.5	8.47	Si
1.6	2X/2Y ø8/19.9	28.68	-274.79	SLD 14	166.5	242.17	921.75	2.5	8.44	28.59	-274.79	SLD 8	166.5	242.17	921.75	2.5	8.47	Si
1.9	2X/2Y ø8/19.9	28.68	-272.09	SLD 14	166.13	242.17	921.37	2.5	8.44	28.59	-272.09	SLD 8	166.13	242.17	921.37	2.5	8.47	Si
2.2	2X/2Y ø8/19.9	28.68	-269.39	SLD 14	165.76	242.17	920.99	2.5	8.44	28.59	-269.39	SLD 8	165.76	242.17	920.99	2.5	8.47	Si
2.5	2X/2Y ø8/19.9	28.68	-266.69	SLD 14	165.39	242.17	920.61	2.5	8.44	28.59	-266.69	SLD 8	165.39	242.17	920.61	2.5	8.47	Si
2.8	2X/2Y ø8/19.9	28.68	-263.99	SLD 14	165.03	242.17	920.23	2.5	8.44	28.59	-263.99	SLD 8	165.03	242.17	920.23	2.5	8.47	Si
3.1	2X/2Y ø8/19.9	28.68	-261.29	SLD 14	164.66	242.17	919.85	2.5	8.44	28.59	-261.29	SLD 8	164.66	242.17	919.85	2.5	8.47	Si
3.4	2X/2Y ø8/19.9	28.68	-258.61	SLD 14	164.29	242.17	919.47	2.5	8.44	28.59	-258.6	SLD 8	164.29	242.17	919.47	2.5	8.47	Si
3.7	2X/2Y ø8/19.9	28.68	-255.89	SLD 14	163.92	242.17	919.09	2.5	8.44	28.59	-255.89	SLD 8	163.92	242.17	919.09	2.5	8.47	Si
4	2X/2Y ø8/19.9	28.68	-253.19	SLD 14	163.56	242.17	918.71	2.5	8.44	28.59	-253.19	SLD 8	163.56	242.17	918.71	2.5	8.47	Si
4.3	2X/2Y ø8/19.9	28.68	-250.49	SLD 14	163.19	242.17	918.32	2.5	8.44	28.59	-250.49	SLD 8	163.19	242.17	918.32	2.5	8.47	Si
4.6	2X/2Y ø8/19.9	28.68	-247.79	SLD 14	162.82	242.17	917.94	2.5	8.44	28.59	-247.79	SLD 8	162.82	242.17	917.94	2.5	8.47	Si
4.9	2X/2Y ø8/19.9	28.68	-245.09	SLD 14	162.45	242.17	917.56	2.5	8.44	28.59	-245.09	SLD 8	162.45	242.17	917.56	2.5	8.47	Si
5.2	2X/2Y ø8/19.9	28.68	-242.39	SLD 14	162.08	242.17	917.18	2.5	8.44	28.59	-242.39	SLD 8	162.08	242.17	917.18	2.5	8.47	Si
5.5	2X/2Y ø8/19.9	28.68	-239.69	SLD 14	161.72	242.17	916.8	2.5	8.44	28.59	-239.69	SLD 8	161.72	242.17	916.8	2.5	8.47	Si
5.8	2X/2Y ø8/19.9	28.68	-236.99	SLD 14	161.35	242.17	916.42	2.5	8.44	28.59	-236.99	SLD 8	161.35	242.17	916.42	2.5	8.47	Si
6.1	2X/2Y ø8/19.9	28.68	-234.29	SLD 14	160.98	242.17	916.04	2.5	8.44	28.59	-234.29	SLD 8	160.98	242.17	916.04	2.5	8.47	Si
6.4	2X/2Y ø8/19.9	28.68	-231.64	SLD 14	160.62	242.17	915.67	2.5	8.44	28.59	-231.64	SLD 8	160.62	242.17	915.67	2.5	8.47	Si

2.1.1.3.7 Verifica delle tensioni in combinazioni rara

Tensione limite del calcestruzzo 18426 kN/m²

Tensione limite dell'acciaio 360000 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-5.95	0	0	-441.08	SLE RA 2	-941	0	0	-441.08	SLE RA 2	-14120	Si
-5.9	-0.0013	0	-440.58	SLE RA 2	-940	-0.0013	0	-440.58	SLE RA 2	-14104	Si
-5.6	-0.0083	0	-437.93	SLE RA 2	-935	-0.0083	0	-437.93	SLE RA 2	-14021	Si
-5.3	-0.0154	0	-435.23	SLE RA 2	-929	-0.0154	0	-435.23	SLE RA 2	-13936	Si
-5	-0.0225	0	-432.53	SLE RA 2	-924	-0.0225	0	-432.53	SLE RA 2	-13851	Si
-4.7	-0.0296	0	-429.83	SLE RA 2	-918	-0.0296	0	-429.83	SLE RA 2	-13767	Si
-4.4	-0.0367	0	-427.13	SLE RA 2	-912	-0.0367	0	-427.13	SLE RA 2	-13682	Si
-4.1	-0.0439	0	-424.43	SLE RA 2	-907	-0.0439	0	-424.43	SLE RA 2	-13597	Si
-3.8	-0.051	0	-421.73	SLE RA 2	-901	-0.051	0	-421.73	SLE RA 2	-13513	Si
-3.5	-0.0581	0	-419.03	SLE RA 2	-895	-0.0581	0	-419.03	SLE RA 2	-13428	Si
-3.2	-0.0652	0	-416.33	SLE RA 2	-890	-0.0652	0	-416.33	SLE RA 2	-13343	Si
-2.9	-0.0723	0	-413.63	SLE RA 2	-871	-0.0723	0	-413.63	SLE RA 2	-13062	Si
-2.6	-0.0794	0	-410.93	SLE RA 2	-829	-0.0794	0	-410.93	SLE RA 2	-12424	Si
-2.3	-0.0865	0	-408.23	SLE RA 2	-790	-0.0865	0	-408.23	SLE RA 2	-11839	Si
-2	-0.0936	0	-405.53	SLE RA 2	-754	-0.0936	0	-405.53	SLE RA 2	-11299	Si
-1.7	-0.1008	0	-402.83	SLE RA 2	-734	-0.1008	0	-402.83	SLE RA 2	-11006	Si
-1.4	-0.1079	0	-400.13	SLE RA 2	-729	-0.1079	0	-400.13	SLE RA 2	-10934	Si
-1.1	-0.115	0	-397.43	SLE RA 2	-724	-0.115	0	-397.43	SLE RA 2	-10862	Si

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-1.01	-0.117	0	-396.66	SLE RA 2	-723	-0.117	0	-396.66	SLE RA 2	-10841	Si
-0.8	-0.1154	0	-394.73	SLE RA 2	-720	-0.1154	0	-394.73	SLE RA 2	-10788	Si
-0.5	-0.1112	0	-392.03	SLE RA 2	-715	-0.1112	0	-392.03	SLE RA 2	-10714	Si
-0.2	-0.1069	0	-389.33	SLE RA 2	-710	-0.1069	0	-389.33	SLE RA 2	-10639	Si
0.1	-0.1026	0	-386.63	SLE RA 2	-705	-0.1026	0	-386.63	SLE RA 2	-10565	Si
0.4	-0.0983	0	-383.93	SLE RA 2	-704	-0.0983	0	-383.93	SLE RA 2	-10561	Si
0.7	-0.094	0	-381.23	SLE RA 2	-728	-0.094	0	-381.23	SLE RA 2	-10910	Si
1	-0.0897	0	-378.53	SLE RA 2	-753	-0.0897	0	-378.53	SLE RA 2	-11287	Si
1.3	-0.0854	0	-375.83	SLE RA 2	-780	-0.0854	0	-375.83	SLE RA 2	-11698	Si
1.6	-0.0811	0	-373.13	SLE RA 2	-798	-0.0811	0	-373.13	SLE RA 2	-11964	Si
1.9	-0.0769	0	-370.43	SLE RA 2	-792	-0.0769	0	-370.43	SLE RA 2	-11877	Si
2.2	-0.0726	0	-367.73	SLE RA 2	-786	-0.0726	0	-367.73	SLE RA 2	-11789	Si
2.5	-0.0683	0	-365.03	SLE RA 2	-780	-0.0683	0	-365.03	SLE RA 2	-11702	Si
2.8	-0.064	0	-362.33	SLE RA 2	-775	-0.064	0	-362.33	SLE RA 2	-11614	Si
3.1	-0.0597	0	-359.63	SLE RA 2	-769	-0.0597	0	-359.63	SLE RA 2	-11527	Si
3.4	-0.0554	0	-356.94	SLE RA 2	-763	-0.0554	0	-356.94	SLE RA 2	-11440	Si
3.7	-0.0511	0	-354.23	SLE RA 2	-757	-0.0511	0	-354.23	SLE RA 2	-11352	Si
4	-0.0468	0	-351.53	SLE RA 2	-751	-0.0468	0	-351.53	SLE RA 2	-11264	Si
4.3	-0.0425	0	-348.83	SLE RA 2	-745	-0.0425	0	-348.83	SLE RA 2	-11177	Si
4.6	-0.0383	0	-346.13	SLE RA 2	-739	-0.0383	0	-346.13	SLE RA 2	-11089	Si
4.9	-0.034	0	-343.43	SLE RA 2	-734	-0.034	0	-343.43	SLE RA 2	-11002	Si
5.2	-0.0297	0	-340.73	SLE RA 2	-728	-0.0297	0	-340.73	SLE RA 2	-10914	Si
5.5	-0.0254	0	-338.03	SLE RA 2	-722	-0.0254	0	-338.03	SLE RA 2	-10827	Si
5.8	-0.0211	0	-335.33	SLE RA 2	-716	-0.0211	0	-335.33	SLE RA 2	-10740	Si
6.1	-0.0168	0	-332.63	SLE RA 2	-710	-0.0168	0	-332.63	SLE RA 2	-10652	Si
6.4	-0.0126	0	-329.97	SLE RA 2	-704	-0.0126	0	-329.97	SLE RA 2	-10566	Si

2.1.1.3.8 Verifica delle tensioni sul calcestruzzo in combinazioni quasi permanenti

Tensione limite del calcestruzzo 13820 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Verifica
-5.95	0	0	-342.74	SLE QP 1	-731	Si
-5.9	-0.0007	0	-342.25	SLE QP 1	-730	Si
-5.6	-0.0047	0	-339.59	SLE QP 1	-725	Si
-5.3	-0.0087	0	-336.89	SLE QP 1	-719	Si
-5	-0.0127	0	-334.19	SLE QP 1	-713	Si
-4.7	-0.0167	0	-331.49	SLE QP 1	-708	Si
-4.4	-0.0207	0	-328.79	SLE QP 1	-702	Si
-4.1	-0.0246	0	-326.09	SLE QP 1	-696	Si
-3.8	-0.0286	0	-323.39	SLE QP 1	-691	Si
-3.5	-0.0326	0	-320.69	SLE QP 1	-685	Si
-3.2	-0.0366	0	-317.99	SLE QP 1	-679	Si
-2.9	-0.0406	0	-315.3	SLE QP 1	-664	Si
-2.6	-0.0446	0	-312.59	SLE QP 1	-630	Si
-2.3	-0.0486	0	-309.89	SLE QP 1	-599	Si
-2	-0.0526	0	-307.19	SLE QP 1	-571	Si
-1.7	-0.0566	0	-304.49	SLE QP 1	-555	Si
-1.4	-0.0606	0	-301.79	SLE QP 1	-550	Si
-1.1	-0.0646	0	-299.09	SLE QP 1	-545	Si
-1.01	-0.0658	0	-298.32	SLE QP 1	-543	Si
-0.8	-0.0649	0	-296.39	SLE QP 1	-540	Si
-0.5	-0.0626	0	-293.69	SLE QP 1	-535	Si
-0.2	-0.0603	0	-290.99	SLE QP 1	-530	Si
0.1	-0.058	0	-288.29	SLE QP 1	-525	Si
0.4	-0.0556	0	-285.59	SLE QP 1	-524	Si
0.7	-0.0533	0	-282.89	SLE QP 1	-540	Si
1	-0.051	0	-280.19	SLE QP 1	-557	Si
1.3	-0.0487	0	-277.49	SLE QP 1	-576	Si
1.6	-0.0464	0	-274.79	SLE QP 1	-587	Si
1.9	-0.044	0	-272.09	SLE QP 1	-582	Si
2.2	-0.0417	0	-269.39	SLE QP 1	-576	Si
2.5	-0.0394	0	-266.69	SLE QP 1	-570	Si
2.8	-0.0371	0	-263.99	SLE QP 1	-564	Si
3.1	-0.0347	0	-261.29	SLE QP 1	-558	Si
3.4	-0.0324	0	-258.61	SLE QP 1	-553	Si
3.7	-0.0301	0	-255.89	SLE QP 1	-547	Si
4	-0.0278	0	-253.19	SLE QP 1	-541	Si
4.3	-0.0255	0	-250.49	SLE QP 1	-535	Si
4.6	-0.0231	0	-247.79	SLE QP 1	-529	Si
4.9	-0.0208	0	-245.09	SLE QP 1	-523	Si
5.2	-0.0185	0	-242.39	SLE QP 1	-518	Si
5.5	-0.0162	0	-239.69	SLE QP 1	-512	Si
5.8	-0.0139	0	-236.99	SLE QP 1	-506	Si
6.1	-0.0115	0	-234.29	SLE QP 1	-500	Si
6.4	-0.0092	0	-231.64	SLE QP 1	-495	Si

2.1.1.3.9 Verifica di apertura delle fessure nella famiglia di combinazioni frequente

Fessurazione non presente

2.1.1.3.10 Verifica di apertura delle fessure nella famiglia di combinazioni quasi permanente

Fessurazione non presente

2.1.1.4 Verifiche nodi trave colonna

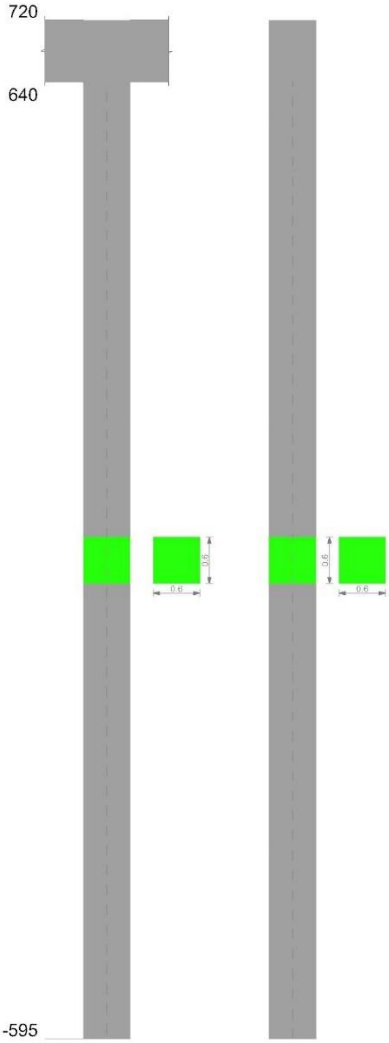
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

2.1.1.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

2.1.2 Pilastrata P21

Geometria



2.1.2.1 Dati della pilastrata

2.1.2.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.95	6.4	R 60x60	No	No	No	No		C30/37	B450C	

2.1.2.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.2	-0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.2	0	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.3	-0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	-0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.5	-0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.6	-0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C

2.1.2.2 Controlli geometrici NTC18

Nessuna anomalia

2.1.2.3 Verifiche delle sezioni

2.1.2.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	-39.0046	-39.0046	-611.84	-394.0555	-394.0555	SLU 17	10.103	Si
-5.9	0.007238	4	0	1,2	38.9636	38.9636	-611.19	394.0555	394.0555	SLU 17	10.113	Si
-5.6	0.007238	4	0	1,2	38.7435	38.7435	-607.74	394.0555	394.0555	SLU 17	10.171	Si
-5.3	0.007238	4	0	1,2	38.5198	38.5198	-604.23	394.0555	394.0555	SLU 17	10.23	Si
-5	0.007238	4	0	1,2	38.296	38.296	-600.72	394.0555	394.0555	SLU 17	10.29	Si
-4.7	0.007238	2	0	2	38.0723	38.0723	-597.21	394.0555	394.0555	SLU 17	10.35	Si
-4.4	0.007238	2	0	2	37.8485	37.8485	-593.7	394.0555	394.0555	SLU 17	10.411	Si
-4.1	0.007238	2	0	2	37.6247	37.6247	-590.19	394.0555	394.0555	SLU 17	10.473	Si
-3.8	0.007238	2	0	2	37.401	37.401	-586.68	394.0555	394.0555	SLU 17	10.536	Si
-3.5	0.007238	2	0	2	37.1772	37.1772	-583.17	394.0555	394.0555	SLU 17	10.599	Si
-3.2	0.007238	2	0	2	36.9534	36.9534	-579.66	394.0555	394.0555	SLU 17	10.664	Si
-2.9	0.007709	3.5	0	2,6	36.7303	36.7303	-576.16	402.1727	402.1727	SLU 17	10.949	Si
-2.6	0.009123	3.5	0	2,6	36.5059	36.5059	-572.64	426.4811	426.4811	SLU 17	11.683	Si
-2.3	0.010537	3.5	0	2,6	36.2822	36.2822	-569.13	450.6886	450.6886	SLU 17	12.422	Si
-2	0.011951	3.5	0	2,6	36.0584	36.0584	-565.62	474.8868	474.8868	SLU 17	13.17	Si
-1.7	0.012667	3.5	0	2,6	35.8346	35.8346	-562.11	487.1442	487.1442	SLU 17	13.594	Si
-1.4	0.012667	3.5	0	2,6	35.6109	35.6109	-558.6	487.1442	487.1442	SLU 17	13.68	Si
-1.1	0.012667	3.5	0	2,6	35.3871	35.3871	-555.09	487.1442	487.1442	SLU 17	13.766	Si
-1.01	0.012667	3.5	0	2,6	35.3234	35.3234	-554.09	487.1442	487.1442	SLU 17	13.791	Si
-0.8	0.012667	3.5	0	2,6	35.1633	35.1633	-551.58	487.1442	487.1442	SLU 17	13.854	Si
-0.5	0.012667	3.5	0	2,6	34.9396	34.9396	-548.07	487.1442	487.1442	SLU 17	13.942	Si
-0.2	0.012667	3.5	0	2,6	34.7158	34.7158	-544.56	487.1442	487.1442	SLU 17	14.032	Si
0.1	0.012667	3.5	0	2,6	34.4921	34.4921	-541.05	487.1442	487.1442	SLU 17	14.123	Si
0.4	0.012422	5.5	0	2,3,4,6	34.2683	34.2683	-537.54	482.9511	482.9511	SLU 17	14.093	Si
0.7	0.011008	5.5	0	2,3,4,6	34.0445	34.0445	-534.03	458.7556	458.7556	SLU 17	13.475	Si
1	0.009594	5.5	0	2,3,4,6	33.8208	33.8208	-530.52	434.5514	434.5514	SLU 17	12.849	Si
1.3	0.008181	5.5	0	2,3,4,6	33.597	33.597	-527.01	410.2861	410.2861	SLU 17	12.212	Si
1.6	0.007238	2	0	3,4	33.3732	33.3732	-523.5	394.0555	394.0555	SLU 17	11.808	Si
1.9	0.007238	2	0	3,4	33.1495	33.1495	-519.99	394.0555	394.0555	SLU 17	11.887	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
2.2	0.007238	2	0	3,4	-32.9257	32.9257	-516.48	-394.0555	394.0555	SLU 17	11.968	Si
2.5	0.007238	2	0	3,4	-32.702	32.702	-512.97	-394.0555	394.0555	SLU 17	12.05	Si
2.8	0.007238	2	0	3,4	-32.4782	32.4782	-509.46	-394.0555	394.0555	SLU 17	12.133	Si
3.1	0.007238	2	0	3,4	-32.2544	32.2544	-505.95	-394.0555	394.0555	SLU 17	12.217	Si
3.4	0.007238	2	0	3,4	-32.0319	32.0319	-502.46	-394.0555	394.0555	SLU 17	12.302	Si
3.7	0.007238	2	0	3,4	-31.8069	31.8069	-498.93	-394.0555	394.0555	SLU 17	12.389	Si
4	0.007238	2	0	3,4	-31.5831	31.5831	-495.42	-394.0555	394.0555	SLU 17	12.477	Si
4.3	0.007238	2	0	3,4	-31.3594	31.3594	-491.91	-394.0555	394.0555	SLU 17	12.566	Si
4.6	0.007238	2	0	3,4	-31.1356	31.1356	-488.4	-394.0555	394.0555	SLU 17	12.656	Si
4.9	0.007238	2	0	3,4	-30.9119	30.9119	-484.89	-394.0555	394.0555	SLU 17	12.748	Si
5.2	0.007238	2	0	3,4	-30.6881	30.6881	-481.38	-394.0555	394.0555	SLU 17	12.841	Si
5.5	0.007238	2	0	3,4	-30.4643	30.4643	-477.87	-394.0555	394.0555	SLU 17	12.935	Si
5.8	0.007238	2	0	3,4	-30.2406	30.2406	-474.36	-394.0555	394.0555	SLU 17	13.031	Si
6.1	0.007238	2	0	3,4	-30.0168	30.0168	-470.85	-394.0555	394.0555	SLU 17	13.128	Si
6.4	0.007238	2	0	3,4	-29.7968	29.7968	-467.4	-394.0555	394.0555	SLU 17	13.225	Si

2.1.2.3.2 Verifica a pressoflessione in SLV (domini sostanzialmente elastici)

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-5.95	0.007238	4	0	1,2	0	0	-346.66	-2.02	1.92	0	0	SLV 9	22.628				Si
-5.9	0.007238	4	0	1,2	5.757	-1.8263	-346.17	-2.02	1.92	130.4542	-41.3831	SLV 9	22.66				Si
-5.6	0.007238	4	0	1,2	11.179	38.7374	-343.51	-2.02	1.92	153.0401	530.315	SLV 1	13.69				Si
-5.3	0.007238	4	0	1,2	20.7609	71.9409	-340.81	-2.02	1.92	180.3326	624.8891	SLV 1	8.686				Si
-5	0.007238	4	0	1,2	30.3429	105.1443	-338.11	-2.02	1.92	186.8764	647.5646	SLV 1	6.159				Si
-4.7	0.007238	2	0	2	39.9249	138.3478	-335.41	-2.02	1.92	189.8221	657.7723	SLV 1	4.754				Si
-4.4	0.007238	2	0	2	49.5068	171.5513	-332.71	-2.02	1.92	184.392	638.9556	SLV 1	3.725				Si
-4.1	0.007238	2	0	2	59.0888	204.7548	-330.01	-2.02	1.92	173.7728	602.158	SLV 1	2.941				Si
-3.8	0.007238	2	0	2	68.6708	237.9582	-327.31	-2.02	1.92	166.4432	576.7597	SLV 1	2.424				Si
-3.5	0.007238	2	0	2	78.2528	271.1617	-324.61	-2.02	1.92	161.1686	558.4819	SLV 1	2.06				Si
-3.2	0.007238	2	0	2	87.8347	304.3652	-321.91	-2.02	1.92	157.1365	544.5098	SLV 1	1.789				Si
-2.9	0.007709	3.5	0	2,6	97.3909	337.4794	-319.22	-2.02	1.92	161.592	559.9491	SLV 1	1.659				Si
-2.6	0.009123	3.5	0	2,6	106.9987	370.7721	-316.51	-2.02	1.92	181.1518	627.728	SLV 1	1.693				Si
-2.3	0.010537	3.5	0	2,6	116.5806	403.9756	-313.81	-2.02	1.92	200.3541	694.2677	SLV 1	1.719				Si
-2	0.011951	3.5	0	2,6	126.1626	437.1791	-311.11	-2.02	1.92	219.2931	759.895	SLV 1	1.738				Si
-1.7	0.012667	3.5	0	2,6	135.7446	470.3826	-308.41	-2.02	1.92	227.9212	789.7933	SLV 1	1.679				Si
-1.4	0.012667	3.5	0	2,6	145.3266	503.586	-305.71	-2.02	1.92	226.2774	784.0972	SLV 1	1.557				Si
-1.1	0.012667	3.5	0	2,6	154.9085	536.7895	-303.01	-2.02	1.92	224.8563	779.1729	SLV 1	1.452				Si
-1.01	0.012667	3.5	0	2,6	157.6389	546.2507	-302.24	-2.02	1.92	224.486	777.8895	SLV 1	1.424				Si
-0.8	0.012667	3.5	0	2,6	155.2536	537.987	-300.31	-2.02	1.92	224.6478	778.4529	SLV 1	1.447				Si
-0.5	0.012667	3.5	0	2,6	149.0009	516.3231	-297.61	-2.02	1.92	225.2505	780.5462	SLV 1	1.512				Si
-0.2	0.012667	3.5	0	2,6	142.7481	494.6592	-294.91	-2.02	1.92	225.9098	782.8357	SLV 1	1.583				Si
0.1	0.012667	3.5	0	2,6	136.4954	472.9953	-292.21	-2.02	1.92	226.6338	785.3504	SLV 1	1.66				Si
0.4	0.012422	5.5	0	2,3,4,6	130.2427	451.3314	-289.51	-2.02	1.92	223.8597	775.7436	SLV 1	1.719				Si
0.7	0.011008	5.5	0	2,3,4,6	123.99	429.6675	-286.81	-2.02	1.92	203.9372	706.7117	SLV 1	1.645				Si
1	0.009594	5.5	0	2,3,4,6	117.7372	408.0036	-284.11	-2.02	1.92	183.6232	636.3231	SLV 1	1.56				Si
1.3	0.008181	5.5	0	2,3,4,6	111.4845	386.3397	-281.41	-2.02	1.92	162.9227	564.594	SLV 1	1.461				Si
1.6	0.007238	2	0	3,4	105.2318	364.6758	-278.71	-2.02	1.92	149.1549	516.8891	SLV 1	1.417				Si
1.9	0.007238	2	0	3,4	98.9791	343.0119	-276.01	-2.02	1.92	150.2195	520.5856	SLV 1	1.518				Si
2.2	0.007238	2	0	3,4	92.7263	321.3479	-273.31	-2.02	1.92	151.4463	524.8451	SLV 1	1.633				Si
2.5	0.007238	2	0	3,4	86.4736	299.684	-270.61	-2.02	1.92	152.874	529.8021	SLV 1	1.768				Si
2.8	0.007238	2	0	3,4	80.2209	278.0201	-267.91	-2.02	1.92	154.5095	535.481	SLV 1	1.926				Si
3.1	0.007238	2	0	3,4	73.9682	256.3562	-265.21	-2.02	1.92	156.4665	542.276	SLV 1	2.115				Si

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.4	0.007238	2	0	3,4	67.7491	234.8088	-262.53	-2.02	1.92	158.8336	550.495	SLV 1	2.344				Si
3.7	0.007238	2	0	3,4	-61.4627	-213.0284	-259.81	-2.02	1.92	-161.8094	-560.8276	SLV 16	2.633				Si
4	0.007238	2	0	3,4	-55.21	-191.3645	-257.11	-2.02	1.92	-165.4467	-573.4579	SLV 16	2.997				Si
4.3	0.007238	2	0	3,4	-48.9563	-169.7006	-254.41	-2.02	1.92	-170.1621	-589.8453	SLV 16	3.476				Si
4.6	0.007238	2	0	3,4	-42.7	-148.0367	-251.71	-2.02	1.92	-176.5455	-612.0657	SLV 16	4.135				Si
4.9	0.007238	2	0	3,4	-36.0557	126.3735	-249.01	-2.02	1.92	-183.7947	644.1924	SLV 4	5.098				Si
5.2	0.007238	2	0	3,4	-30.1992	104.7095	-246.31	-2.02	1.92	-189.9834	658.7278	SLV 4	6.291				Si
5.5	0.007238	2	0	3,4	-23.9465	83.0454	-243.61	-2.02	1.92	-187.8311	651.3898	SLV 4	7.844				Si
5.8	0.007238	2	0	3,4	-17.6938	61.3814	-240.91	-2.02	1.92	-183.8747	637.8766	SLV 4	10.392				Si
6.1	0.007238	2	0	3,4	-11.4413	39.7174	-238.21	-2.02	1.92	-173.022	600.6301	SLV 4	15.123				Si
6.4	0.007238	2	0	3,4	-5.33	18.4144	-235.56	-2.02	1.92	-126.8752	438.3365	SLV 4	23.804				Si

2.1.2.3.3 Verifica a pressoflessione in SLD

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	0	0	-346.66	0	0	SLD 9	22.628	Si
-5.9	0.007238	4	0	1,2	2.285	-0.7246	-346.17	51.7794	-16.4205	SLD 9	22.66	Si
-5.6	0.007238	4	0	1,2	4.4429	15.3707	-343.51	86.8391	300.4256	SLD 1	19.545	Si
-5.3	0.007238	4	0	1,2	8.2512	28.5455	-340.81	131.9531	456.5	SLD 1	15.992	Si
-5	0.007238	4	0	1,2	12.0594	41.7204	-338.11	158.8926	549.6992	SLD 1	13.176	Si
-4.7	0.007238	2	0	2	15.8677	54.8952	-335.41	172.8015	597.8177	SLD 1	10.89	Si
-4.4	0.007238	2	0	2	19.6759	68.0701	-332.71	179.836	622.1541	SLD 1	9.14	Si
-4.1	0.007238	2	0	2	23.4842	81.2449	-330.01	183.7075	635.5479	SLD 1	7.823	Si
-3.8	0.007238	2	0	2	27.2924	94.4198	-327.31	186.1521	644.0052	SLD 1	6.821	Si
-3.5	0.007238	2	0	2	31.1006	107.5946	-324.61	187.8852	650.0009	SLD 1	6.041	Si
-3.2	0.007238	2	0	2	34.9089	120.7695	-321.91	189.2083	654.5782	SLD 1	5.42	Si
-2.9	0.007709	3.5	0	2,6	38.7069	133.9089	-319.22	195.3253	675.7403	SLD 1	5.046	Si
-2.6	0.009123	3.5	0	2,6	42.5254	147.1192	-316.51	211.6182	732.1065	SLD 1	4.976	Si
-2.3	0.010537	3.5	0	2,6	46.3336	160.2941	-313.81	227.9181	788.4971	SLD 1	4.919	Si
-2	0.011951	3.5	0	2,6	50.1418	173.4689	-311.11	244.2107	844.8625	SLD 1	4.87	Si
-1.7	0.012667	3.5	0	2,6	53.9501	186.6438	-308.41	253.1102	875.6508	SLD 1	4.692	Si
-1.4	0.012667	3.5	0	2,6	57.7583	199.8186	-305.71	254.3083	879.796	SLD 1	4.403	Si
-1.1	0.012667	3.5	0	2,6	61.5666	212.9935	-303.01	253.9205	878.4541	SLD 1	4.124	Si
-1.01	0.012667	3.5	0	2,6	62.6517	216.7476	-302.24	253.584	877.2902	SLD 1	4.048	Si
-0.8	0.012667	3.5	0	2,6	61.7037	213.4686	-300.31	253.7309	877.8014	SLD 1	4.112	Si
-0.5	0.012667	3.5	0	2,6	59.2186	204.8726	-297.61	254.278	879.6995	SLD 1	4.294	Si
-0.2	0.012667	3.5	0	2,6	56.7335	196.2765	-294.91	254.5748	880.7323	SLD 1	4.487	Si
0.1	0.012667	3.5	0	2,6	54.2485	187.6805	-292.21	254.0382	878.8825	SLD 1	4.683	Si
0.4	0.012422	5.5	0	2,3,4,6	51.7634	179.0844	-289.51	250.838	867.8181	SLD 1	4.846	Si
0.7	0.011008	5.5	0	2,3,4,6	49.2783	170.4884	-286.81	234.7633	812.2121	SLD 1	4.764	Si
1	0.009594	5.5	0	2,3,4,6	46.7932	161.8923	-284.11	217.406	752.1683	SLD 1	4.646	Si
1.3	0.008181	5.5	0	2,3,4,6	44.3081	153.2963	-281.41	197.6097	683.686	SLD 1	4.46	Si
1.6	0.007238	2	0	3,4	41.823	144.7002	-278.71	184.1685	637.19	SLD 1	4.404	Si
1.9	0.007238	2	0	3,4	39.3379	136.1042	-276.01	187.6541	649.2586	SLD 1	4.77	Si
2.2	0.007238	2	0	3,4	36.8529	127.5081	-273.31	190.0005	657.3874	SLD 1	5.156	Si
2.5	0.007238	2	0	3,4	34.3678	118.9121	-270.61	190.4675	659.0152	SLD 1	5.542	Si
2.8	0.007238	2	0	3,4	31.8827	110.316	-267.91	190.0322	657.5227	SLD 1	5.96	Si
3.1	0.007238	2	0	3,4	29.3976	101.72	-265.21	189.3931	655.3275	SLD 1	6.442	Si
3.4	0.007238	2	0	3,4	26.9259	93.1701	-262.53	188.6045	652.6173	SLD 1	7.005	Si
3.7	0.007238	2	0	3,4	-24.4274	-84.5279	-259.81	-187.6337	-649.2811	SLD 16	7.681	Si
4	0.007238	2	0	3,4	-21.9424	-75.9318	-257.11	-186.4197	-645.1071	SLD 16	8.496	Si
4.3	0.007238	2	0	3,4	-19.4569	-67.3357	-254.41	-184.8403	-639.6904	SLD 16	9.5	Si
4.6	0.007238	2	0	3,4	-16.9703	-58.7397	-251.71	-182.6371	-632.1677	SLD 16	10.762	Si
4.9	0.007238	2	0	3,4	-14.3176	50.1439	-249.01	-177.5845	621.9464	SLD 4	12.403	Si
5.2	0.007238	2	0	3,4	-12.0021	41.5478	-246.31	-173.8798	601.9227	SLD 4	14.487	Si
5.5	0.007238	2	0	3,4	-9.517	32.9517	-243.61	-163.9535	567.6722	SLD 4	17.227	Si
5.8	0.007238	2	0	3,4	-7.032	24.3556	-240.91	-145.6711	504.5399	SLD 4	20.716	Si
6.1	0.007238	2	0	3,4	-4.547	15.7595	-238.21	-113.8957	394.7561	SLD 4	25.049	Si
6.4	0.007238	2	0	3,4	-2.1185	7.3067	-235.56	-65.6513	226.4348	SLD 4	30.99	Si

2.1.2.3.4 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	0	-343.42	SLU 1	175.85	242.17	931.42	2.5	1000	0	-343.42	SLU 1	175.85	242.17	931.42	2.5	1000	Si
-5.9	2X/2Y ø8/19.9	0	-342.93	SLU 1	175.78	242.17	931.35	2.5	1000	0	-342.93	SLU 1	175.78	242.17	931.35	2.5	1000	Si
-5.6	2X/2Y ø8/19.9	0	-340.27	SLU 1	175.42	242.17	930.98	2.5	1000	0	-340.27	SLU 1	175.42	242.17	930.98	2.5	1000	Si
-5.3	2X/2Y ø8/19.9	0	-337.57	SLU 1	175.05	242.17	930.6	2.5	1000	0	-337.57	SLU 1	175.05	242.17	930.6	2.5	1000	Si
-5	2X/2Y ø8/19.9	0	-334.87	SLU 1	174.68	242.17	930.22	2.5	1000	0	-334.87	SLU 1	174.68	242.17	930.22	2.5	1000	Si
-4.7	2X/2Y ø8/19.9	0	-332.17	SLU 1	174.32	242.17	929.84	2.5	1000	0	-332.17	SLU 1	174.32	242.17	929.84	2.5	1000	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-4.4	2X/2Y ø8/19.9	0	-329.47	SLU 1	173.95	242.17	929.46	2.5	1000	0	-329.47	SLU 1	173.95	242.17	929.46	2.5	1000	Si
-4.1	2X/2Y ø8/19.9	0	-326.77	SLU 1	173.58	242.17	929.08	2.5	1000	0	-326.77	SLU 1	173.58	242.17	929.08	2.5	1000	Si
-3.8	2X/2Y ø8/19.9	0	-324.07	SLU 1	173.21	242.17	928.7	2.5	1000	0	-324.07	SLU 1	173.21	242.17	928.7	2.5	1000	Si
-3.5	2X/2Y ø8/19.9	0	-321.37	SLU 1	172.85	242.17	928.32	2.5	1000	0	-321.37	SLU 1	172.85	242.17	928.32	2.5	1000	Si
-3.2	2X/2Y ø8/19.9	0	-318.67	SLU 1	172.48	242.17	927.93	2.5	1000	0	-318.67	SLU 1	172.48	242.17	927.93	2.5	1000	Si
-2.9	2X/2Y ø8/19.9	0	-315.98	SLU 1	172.11	242.17	927.56	2.5	1000	0	-315.98	SLU 1	172.11	242.17	927.56	2.5	1000	Si
-2.6	2X/2Y ø8/19.9	0	-313.27	SLU 1	171.74	242.17	927.17	2.5	1000	0	-313.27	SLU 1	171.74	242.17	927.17	2.5	1000	Si
-2.3	2X/2Y ø8/19.9	0	-310.57	SLU 1	171.37	242.17	926.79	2.5	1000	0	-310.57	SLU 1	171.37	242.17	926.79	2.5	1000	Si
-2	2X/2Y ø8/19.9	0	-307.87	SLU 1	171.01	242.17	926.41	2.5	1000	0	-307.87	SLU 1	171.01	242.17	926.41	2.5	1000	Si
-1.7	2X/2Y ø8/19.9	0	-305.17	SLU 1	170.64	242.17	926.03	2.5	1000	0	-305.17	SLU 1	170.64	242.17	926.03	2.5	1000	Si
-1.4	2X/2Y ø8/19.9	0	-302.47	SLU 1	170.27	242.17	925.65	2.5	1000	0	-302.47	SLU 1	170.27	242.17	925.65	2.5	1000	Si
-1.1	2X/2Y ø8/19.9	0	-299.77	SLU 1	169.9	242.17	925.27	2.5	1000	0	-299.77	SLU 1	169.9	242.17	925.27	2.5	1000	Si
-1.01	2X/2Y ø8/19.9	0	-299	SLU 1	169.8	242.17	925.16	2.5	1000	0	-299	SLU 1	169.8	242.17	925.16	2.5	1000	Si
-0.8	2X/2Y ø8/19.9	0	-297.07	SLU 1	169.53	242.17	924.89	2.5	1000	0	-297.07	SLU 1	169.53	242.17	924.89	2.5	1000	Si
-0.5	2X/2Y ø8/19.9	0	-294.37	SLU 1	169.17	242.17	924.51	2.5	1000	0	-294.37	SLU 1	169.17	242.17	924.51	2.5	1000	Si
-0.2	2X/2Y ø8/19.9	0	-291.67	SLU 1	168.8	242.17	924.13	2.5	1000	0	-291.67	SLU 1	168.8	242.17	924.13	2.5	1000	Si
0.1	2X/2Y ø8/19.9	0	-288.97	SLU 1	168.43	242.17	923.75	2.5	1000	0	-288.97	SLU 1	168.43	242.17	923.75	2.5	1000	Si
0.4	2X/2Y ø8/19.9	0	-286.27	SLU 1	168.06	242.17	923.37	2.5	1000	0	-286.27	SLU 1	168.06	242.17	923.37	2.5	1000	Si
0.7	2X/2Y ø8/19.9	0	-283.57	SLU 1	167.7	242.17	922.99	2.5	1000	0	-283.57	SLU 1	167.7	242.17	922.99	2.5	1000	Si
1	2X/2Y ø8/19.9	0	-280.87	SLU 1	167.33	242.17	922.61	2.5	1000	0	-280.87	SLU 1	167.33	242.17	922.61	2.5	1000	Si
1.3	2X/2Y ø8/19.9	0	-278.17	SLU 1	166.96	242.17	922.23	2.5	1000	0	-278.17	SLU 1	166.96	242.17	922.23	2.5	1000	Si
1.6	2X/2Y ø8/19.9	0	-275.47	SLU 1	166.59	242.17	921.85	2.5	1000	0	-275.47	SLU 1	166.59	242.17	921.85	2.5	1000	Si
1.9	2X/2Y ø8/19.9	0	-272.77	SLU 1	166.22	242.17	921.47	2.5	1000	0	-272.77	SLU 1	166.22	242.17	921.47	2.5	1000	Si
2.2	2X/2Y ø8/19.9	0	-270.07	SLU 1	165.86	242.17	921.08	2.5	1000	0	-270.07	SLU 1	165.86	242.17	921.08	2.5	1000	Si
2.5	2X/2Y ø8/19.9	0	-267.37	SLU 1	165.49	242.17	920.7	2.5	1000	0	-267.37	SLU 1	165.49	242.17	920.7	2.5	1000	Si
2.8	2X/2Y ø8/19.9	0	-264.67	SLU 1	165.12	242.17	920.32	2.5	1000	0	-264.67	SLU 1	165.12	242.17	920.32	2.5	1000	Si
3.1	2X/2Y ø8/19.9	0	-261.97	SLU 1	164.75	242.17	919.94	2.5	1000	0	-261.97	SLU 1	164.75	242.17	919.94	2.5	1000	Si
3.4	2X/2Y ø8/19.9	0	-259.29	SLU 1	164.39	242.17	919.56	2.5	1000	0	-259.29	SLU 1	164.39	242.17	919.56	2.5	1000	Si
3.7	2X/2Y ø8/19.9	0	-256.57	SLU 1	164.02	242.17	919.18	2.5	1000	0	-256.57	SLU 1	164.02	242.17	919.18	2.5	1000	Si
4	2X/2Y ø8/19.9	0	-253.87	SLU 1	163.65	242.17	918.8	2.5	1000	0	-253.87	SLU 1	163.65	242.17	918.8	2.5	1000	Si
4.3	2X/2Y ø8/19.9	0	-251.17	SLU 1	163.28	242.17	918.42	2.5	1000	0	-251.17	SLU 1	163.28	242.17	918.42	2.5	1000	Si
4.6	2X/2Y ø8/19.9	0	-248.47	SLU 1	162.91	242.17	918.04	2.5	1000	0	-248.47	SLU 1	162.91	242.17	918.04	2.5	1000	Si
4.9	2X/2Y ø8/19.9	0	-245.77	SLU 1	162.54	242.17	917.66	2.5	1000	0	-245.77	SLU 1	162.54	242.17	917.66	2.5	1000	Si
5.2	2X/2Y ø8/19.9	0	-243.07	SLU 1	162.18	242.17	917.28	2.5	1000	0	-243.07	SLU 1	162.18	242.17	917.28	2.5	1000	Si
5.5	2X/2Y ø8/19.9	0	-240.37	SLU 1	161.81	242.17	916.9	2.5	1000	0	-240.37	SLU 1	161.81	242.17	916.9	2.5	1000	Si
5.8	2X/2Y ø8/19.9	0	-237.67	SLU 1	161.44	242.17	916.52	2.5	1000	0	-237.67	SLU 1	161.44	242.17	916.52	2.5	1000	Si
6.1	2X/2Y ø8/19.9	0	-234.97	SLU 1	161.07	242.17	916.14	2.5	1000	0	-234.97	SLU 1	161.07	242.17	916.14	2.5	1000	Si
6.4	2X/2Y ø8/19.9	0	-232.32	SLU 1	160.71	242.17	915.76	2.5	1000	0	-232.32	SLU 1	160.71	242.17	915.76	2.5	1000	Si

2.1.2.3.5 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	110.68	-346.66	SLV 3	176.29	242.17	931.88	2.5	2.19	104.97	-346.66	SLV 5	176.29	242.17	931.88	2.5	2.31	Si
-5.9	2X/2Y ø8/19.9	110.68	-346.17	SLV 3	176.22	242.17	931.81	2.5	2.19	104.97	-346.17	SLV 5	176.22	242.17	931.81	2.5	2.31	Si
-5.6	2X/2Y ø8/19.9	110.68	-343.51	SLV 3	175.86	242.17	931.44	2.5	2.19	104.97	-343.51	SLV 5	175.86	242.17	931.44	2.5	2.31	Si
-5.3	2X/2Y ø8/19.9	110.68	-340.81	SLV 3	175.49	242.17	931.06	2.5	2.19	104.97	-340.81	SLV 5	175.49	242.17	931.06	2.5	2.31	Si
-5	2X/2Y ø8/19.9	110.68	-338.11	SLV 3	175.13	242.17	930.67	2.5	2.19	104.97	-338.11	SLV 5	175.13	242.17	930.67	2.5	2.31	Si
-4.7	2X/2Y ø8/19.9	110.68	-335.41	SLV 3	174.76	242.17	930.29	2.5	2.19	104.97	-335.41	SLV 5	174.76	242.17	930.29	2.5	2.31	Si
-4.4	2X/2Y ø8/19.9	110.68	-332.71	SLV 3	174.39	242.17	929.91	2.5	2.19	104.97	-332.71	SLV 5	174.39	242.17	929.91	2.5	2.31	Si
-4.1	2X/2Y ø8/19.9	110.68	-330.01	SLV 3	174.02	242.17	929.53	2.5	2.19	104.97	-330.01	SLV 5	174.02	242.17	929.53	2.5	2.31	Si

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		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.8	2X/2Y ø8/19.9	110.68	-327.31	SLV 3	173.65	242.17	929.15	2.5	2.19	104.97	-327.31	SLV 5	173.65	242.17	929.15	2.5	2.31	Si
-3.5	2X/2Y ø8/19.9	110.68	-324.61	SLV 3	173.29	242.17	928.77	2.5	2.19	104.97	-324.61	SLV 5	173.29	242.17	928.77	2.5	2.31	Si
-3.2	2X/2Y ø8/19.9	110.68	-321.91	SLV 3	172.92	242.17	928.39	2.5	2.19	104.97	-321.91	SLV 5	172.92	242.17	928.39	2.5	2.31	Si
-2.9	2X/2Y ø8/19.9	110.68	-319.22	SLV 3	172.55	242.17	928.01	2.5	2.19	104.97	-319.22	SLV 5	172.55	242.17	928.01	2.5	2.31	Si
-2.6	2X/2Y ø8/19.9	110.68	-316.51	SLV 3	172.18	242.17	927.63	2.5	2.19	104.97	-316.51	SLV 5	172.18	242.17	927.63	2.5	2.31	Si
-2.3	2X/2Y ø8/19.9	110.68	-313.81	SLV 3	171.82	242.17	927.25	2.5	2.19	104.97	-313.81	SLV 5	171.82	242.17	927.25	2.5	2.31	Si
-2	2X/2Y ø8/19.9	110.68	-311.11	SLV 3	171.45	242.17	926.87	2.5	2.19	104.97	-311.11	SLV 5	171.45	242.17	926.87	2.5	2.31	Si
-1.7	2X/2Y ø8/19.9	110.68	-308.41	SLV 3	171.08	242.17	926.49	2.5	2.19	104.97	-308.41	SLV 5	171.08	242.17	926.49	2.5	2.31	Si
-1.4	2X/2Y ø8/19.9	110.68	-305.71	SLV 3	170.71	242.17	926.11	2.5	2.19	104.97	-305.71	SLV 5	170.71	242.17	926.11	2.5	2.31	Si
-1.1	2X/2Y ø8/19.9	110.68	-303.01	SLV 3	170.34	242.17	925.73	2.5	2.19	104.97	-303.01	SLV 5	170.34	242.17	925.73	2.5	2.31	Si
-1.01	2X/2Y ø8/19.9	110.68	-302.24	SLV 3	170.24	242.17	925.62	2.5	2.19	104.97	-302.24	SLV 5	170.24	242.17	925.62	2.5	2.31	Si
-0.8	2X/2Y ø8/19.9	72.21	-300.31	SLV 13	169.98	242.17	925.35	2.5	3.35	-68.5	-300.31	SLV 6	169.98	242.17	925.35	2.5	3.54	Si
-0.5	2X/2Y ø8/19.9	72.21	-297.61	SLV 13	169.61	242.17	924.97	2.5	3.35	-68.5	-297.61	SLV 6	169.61	242.17	924.97	2.5	3.54	Si
-0.2	2X/2Y ø8/19.9	72.21	-294.91	SLV 13	169.24	242.17	924.59	2.5	3.35	-68.5	-294.91	SLV 6	169.24	242.17	924.59	2.5	3.54	Si
0.1	2X/2Y ø8/19.9	72.21	-292.21	SLV 13	168.87	242.17	924.21	2.5	3.35	-68.5	-292.21	SLV 6	168.87	242.17	924.21	2.5	3.54	Si
0.4	2X/2Y ø8/19.9	72.21	-289.51	SLV 13	168.5	242.17	923.82	2.5	3.35	-68.5	-289.51	SLV 6	168.5	242.17	923.82	2.5	3.54	Si
0.7	2X/2Y ø8/19.9	72.21	-286.81	SLV 13	168.14	242.17	923.44	2.5	3.35	-68.5	-286.81	SLV 6	168.14	242.17	923.44	2.5	3.54	Si
1	2X/2Y ø8/19.9	72.21	-284.11	SLV 13	167.77	242.17	923.06	2.5	3.35	-68.5	-284.11	SLV 6	167.77	242.17	923.06	2.5	3.54	Si
1.3	2X/2Y ø8/19.9	72.21	-281.41	SLV 13	167.4	242.17	922.68	2.5	3.35	-68.5	-281.41	SLV 6	167.4	242.17	922.68	2.5	3.54	Si
1.6	2X/2Y ø8/19.9	72.21	-278.71	SLV 13	167.03	242.17	922.3	2.5	3.35	-68.5	-278.71	SLV 6	167.03	242.17	922.3	2.5	3.54	Si
1.9	2X/2Y ø8/19.9	72.21	-276.01	SLV 13	166.67	242.17	921.92	2.5	3.35	-68.5	-276.01	SLV 6	166.67	242.17	921.92	2.5	3.54	Si
2.2	2X/2Y ø8/19.9	72.21	-273.31	SLV 13	166.3	242.17	921.54	2.5	3.35	-68.5	-273.31	SLV 6	166.3	242.17	921.54	2.5	3.54	Si
2.5	2X/2Y ø8/19.9	72.21	-270.61	SLV 13	165.93	242.17	921.16	2.5	3.35	-68.5	-270.61	SLV 6	165.93	242.17	921.16	2.5	3.54	Si
2.8	2X/2Y ø8/19.9	72.21	-267.91	SLV 13	165.56	242.17	920.78	2.5	3.35	-68.5	-267.91	SLV 6	165.56	242.17	920.78	2.5	3.54	Si
3.1	2X/2Y ø8/19.9	72.21	-265.21	SLV 13	165.19	242.17	920.4	2.5	3.35	-68.5	-265.21	SLV 6	165.19	242.17	920.4	2.5	3.54	Si
3.4	2X/2Y ø8/19.9	72.21	-262.53	SLV 13	164.83	242.17	920.02	2.5	3.35	-68.5	-262.53	SLV 6	164.83	242.17	920.02	2.5	3.54	Si
3.7	2X/2Y ø8/19.9	72.21	-259.81	SLV 13	164.46	242.17	919.64	2.5	3.35	-68.5	-259.81	SLV 6	164.46	242.17	919.64	2.5	3.54	Si
4	2X/2Y ø8/19.9	72.21	-257.11	SLV 13	164.09	242.17	919.26	2.5	3.35	-68.5	-257.11	SLV 6	164.09	242.17	919.26	2.5	3.54	Si
4.3	2X/2Y ø8/19.9	72.21	-254.41	SLV 13	163.72	242.17	918.88	2.5	3.35	-68.5	-254.41	SLV 6	163.72	242.17	918.88	2.5	3.54	Si
4.6	2X/2Y ø8/19.9	72.21	-251.71	SLV 13	163.35	242.17	918.5	2.5	3.35	-68.5	-251.71	SLV 6	163.35	242.17	918.5	2.5	3.54	Si
4.9	2X/2Y ø8/19.9	72.21	-249.01	SLV 13	162.99	242.17	918.12	2.5	3.35	-68.5	-249.01	SLV 6	162.99	242.17	918.12	2.5	3.54	Si
5.2	2X/2Y ø8/19.9	72.21	-246.31	SLV 13	162.62	242.17	917.74	2.5	3.35	-68.5	-246.31	SLV 6	162.62	242.17	917.74	2.5	3.54	Si
5.5	2X/2Y ø8/19.9	72.21	-243.61	SLV 13	162.25	242.17	917.36	2.5	3.35	-68.5	-243.61	SLV 6	162.25	242.17	917.36	2.5	3.54	Si
5.8	2X/2Y ø8/19.9	72.21	-240.91	SLV 13	161.88	242.17	916.97	2.5	3.35	-68.5	-240.91	SLV 6	161.88	242.17	916.97	2.5	3.54	Si
6.1	2X/2Y ø8/19.9	72.21	-238.21	SLV 13	161.51	242.17	916.59	2.5	3.35	-68.5	-238.21	SLV 6	161.51	242.17	916.59	2.5	3.54	Si
6.4	2X/2Y ø8/19.9	72.21	-235.56	SLV 13	161.15	242.17	916.22	2.5	3.35	-68.5	-235.56	SLV 6	161.15	242.17	916.22	2.5	3.54	Si

2.1.2.3.6 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	43.92	-346.66	SLD 3	176.29	242.17	931.88	2.5	5.51	41.67	-346.66	SLD 5	176.29	242.17	931.88	2.5	5.81	Si
-5.9	2X/2Y ø8/19.9	43.92	-346.17	SLD 3	176.22	242.17	931.81	2.5	5.51	41.67	-346.17	SLD 5	176.22	242.17	931.81	2.5	5.81	Si
-5.6	2X/2Y ø8/19.9	43.92	-343.51	SLD 3	175.86	242.17	931.44	2.5	5.51	41.67	-343.51	SLD 5	175.86	242.17	931.44	2.5	5.81	Si
-5.3	2X/2Y ø8/19.9	43.92	-340.81	SLD 3	175.49	242.17	931.06	2.5	5.51	41.67	-340.81	SLD 5	175.49	242.17	931.06	2.5	5.81	Si
-5	2X/2Y ø8/19.9	43.92	-338.11	SLD 3	175.13	242.17	930.67	2.5	5.51	41.67	-338.11	SLD 5	175.13	242.17	930.67	2.5	5.81	Si
-4.7	2X/2Y ø8/19.9	43.92	-335.41	SLD 3	174.76	242.17	930.29	2.5	5.51	41.67	-335.41	SLD 5	174.76	242.17	930.29	2.5	5.81	Si
-4.4	2X/2Y ø8/19.9	43.92	-332.71	SLD 3	174.39	242.17	929.91	2.5	5.51	41.67	-332.71	SLD 5	174.39	242.17	929.91	2.5	5.81	Si
-4.1	2X/2Y ø8/19.9	43.92	-330.01	SLD 3	174.02	242.17	929.53	2.5	5.51	41.67	-330.01	SLD 5	174.02	242.17	929.53	2.5	5.81	Si
-3.8	2X/2Y ø8/19.9	43.92	-327.31	SLD 3	173.65	242.17	929.15	2.5	5.51	41.67	-327.31	SLD 5	173.65	242.17	929.15	2.5	5.81	Si
-3.5	2X/2Y ø8/19.9	43.92	-324.61	SLD 3	173.29	242.17	928.77	2.5	5.51	41.67	-324.61	SLD 5	173.29	242.17	928.77	2.5	5.81	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.2	2X/2Y ø8/19.9	43.92	-321.91	SLD 3	172.92	242.17	928.39	2.5	5.51	41.67	-321.91	SLD 5	172.92	242.17	928.39	2.5	5.81	Si
-2.9	2X/2Y ø8/19.9	43.92	-319.22	SLD 3	172.55	242.17	928.01	2.5	5.51	41.67	-319.22	SLD 5	172.55	242.17	928.01	2.5	5.81	Si
-2.6	2X/2Y ø8/19.9	43.92	-316.51	SLD 3	172.18	242.17	927.63	2.5	5.51	41.67	-316.51	SLD 5	172.18	242.17	927.63	2.5	5.81	Si
-2.3	2X/2Y ø8/19.9	43.92	-313.81	SLD 3	171.82	242.17	927.25	2.5	5.51	41.67	-313.81	SLD 5	171.82	242.17	927.25	2.5	5.81	Si
-2	2X/2Y ø8/19.9	43.92	-311.11	SLD 3	171.45	242.17	926.87	2.5	5.51	41.67	-311.11	SLD 5	171.45	242.17	926.87	2.5	5.81	Si
-1.7	2X/2Y ø8/19.9	43.92	-308.41	SLD 3	171.08	242.17	926.49	2.5	5.51	41.67	-308.41	SLD 5	171.08	242.17	926.49	2.5	5.81	Si
-1.4	2X/2Y ø8/19.9	43.92	-305.71	SLD 3	170.71	242.17	926.11	2.5	5.51	41.67	-305.71	SLD 5	170.71	242.17	926.11	2.5	5.81	Si
-1.1	2X/2Y ø8/19.9	43.92	-303.01	SLD 3	170.34	242.17	925.73	2.5	5.51	41.67	-303.01	SLD 5	170.34	242.17	925.73	2.5	5.81	Si
-1.01	2X/2Y ø8/19.9	43.92	-302.24	SLD 3	170.24	242.17	925.62	2.5	5.51	41.67	-302.24	SLD 5	170.24	242.17	925.62	2.5	5.81	Si
-0.8	2X/2Y ø8/19.9	28.65	-300.31	SLD 13	169.98	242.17	925.35	2.5	8.45	-27.19	-300.31	SLD 6	169.98	242.17	925.35	2.5	8.91	Si
-0.5	2X/2Y ø8/19.9	28.65	-297.61	SLD 13	169.61	242.17	924.97	2.5	8.45	-27.19	-297.61	SLD 6	169.61	242.17	924.97	2.5	8.91	Si
-0.2	2X/2Y ø8/19.9	28.65	-294.91	SLD 13	169.24	242.17	924.59	2.5	8.45	-27.19	-294.91	SLD 6	169.24	242.17	924.59	2.5	8.91	Si
0.1	2X/2Y ø8/19.9	28.65	-292.21	SLD 13	168.87	242.17	924.21	2.5	8.45	-27.19	-292.21	SLD 6	168.87	242.17	924.21	2.5	8.91	Si
0.4	2X/2Y ø8/19.9	28.65	-289.51	SLD 13	168.5	242.17	923.82	2.5	8.45	-27.19	-289.51	SLD 6	168.5	242.17	923.82	2.5	8.91	Si
0.7	2X/2Y ø8/19.9	28.65	-286.81	SLD 13	168.14	242.17	923.44	2.5	8.45	-27.19	-286.81	SLD 6	168.14	242.17	923.44	2.5	8.91	Si
1	2X/2Y ø8/19.9	28.65	-284.11	SLD 13	167.77	242.17	923.06	2.5	8.45	-27.19	-284.11	SLD 6	167.77	242.17	923.06	2.5	8.91	Si
1.3	2X/2Y ø8/19.9	28.65	-281.41	SLD 13	167.4	242.17	922.68	2.5	8.45	-27.19	-281.41	SLD 6	167.4	242.17	922.68	2.5	8.91	Si
1.6	2X/2Y ø8/19.9	28.65	-278.71	SLD 13	167.03	242.17	922.3	2.5	8.45	-27.19	-278.71	SLD 6	167.03	242.17	922.3	2.5	8.91	Si
1.9	2X/2Y ø8/19.9	28.65	-276.01	SLD 13	166.67	242.17	921.92	2.5	8.45	-27.19	-276.01	SLD 6	166.67	242.17	921.92	2.5	8.91	Si
2.2	2X/2Y ø8/19.9	28.65	-273.31	SLD 13	166.3	242.17	921.54	2.5	8.45	-27.19	-273.31	SLD 6	166.3	242.17	921.54	2.5	8.91	Si
2.5	2X/2Y ø8/19.9	28.65	-270.61	SLD 13	165.93	242.17	921.16	2.5	8.45	-27.19	-270.61	SLD 6	165.93	242.17	921.16	2.5	8.91	Si
2.8	2X/2Y ø8/19.9	28.65	-267.91	SLD 13	165.56	242.17	920.78	2.5	8.45	-27.19	-267.91	SLD 6	165.56	242.17	920.78	2.5	8.91	Si
3.1	2X/2Y ø8/19.9	28.65	-265.21	SLD 13	165.19	242.17	920.4	2.5	8.45	-27.19	-265.21	SLD 6	165.19	242.17	920.4	2.5	8.91	Si
3.4	2X/2Y ø8/19.9	28.65	-262.53	SLD 13	164.83	242.17	920.02	2.5	8.45	-27.19	-262.53	SLD 6	164.83	242.17	920.02	2.5	8.91	Si
3.7	2X/2Y ø8/19.9	28.65	-259.81	SLD 13	164.46	242.17	919.64	2.5	8.45	-27.19	-259.81	SLD 6	164.46	242.17	919.64	2.5	8.91	Si
4	2X/2Y ø8/19.9	28.65	-257.11	SLD 13	164.09	242.17	919.26	2.5	8.45	-27.19	-257.11	SLD 6	164.09	242.17	919.26	2.5	8.91	Si
4.3	2X/2Y ø8/19.9	28.65	-254.41	SLD 13	163.72	242.17	918.88	2.5	8.45	-27.19	-254.41	SLD 6	163.72	242.17	918.88	2.5	8.91	Si
4.6	2X/2Y ø8/19.9	28.65	-251.71	SLD 13	163.35	242.17	918.5	2.5	8.45	-27.19	-251.71	SLD 6	163.35	242.17	918.5	2.5	8.91	Si
4.9	2X/2Y ø8/19.9	28.65	-249.01	SLD 13	162.99	242.17	918.12	2.5	8.45	-27.19	-249.01	SLD 6	162.99	242.17	918.12	2.5	8.91	Si
5.2	2X/2Y ø8/19.9	28.65	-246.31	SLD 13	162.62	242.17	917.74	2.5	8.45	-27.19	-246.31	SLD 6	162.62	242.17	917.74	2.5	8.91	Si
5.5	2X/2Y ø8/19.9	28.65	-243.61	SLD 13	162.25	242.17	917.36	2.5	8.45	-27.19	-243.61	SLD 6	162.25	242.17	917.36	2.5	8.91	Si
5.8	2X/2Y ø8/19.9	28.65	-240.91	SLD 13	161.88	242.17	916.97	2.5	8.45	-27.19	-240.91	SLD 6	161.88	242.17	916.97	2.5	8.91	Si
6.1	2X/2Y ø8/19.9	28.65	-238.21	SLD 13	161.51	242.17	916.59	2.5	8.45	-27.19	-238.21	SLD 6	161.51	242.17	916.59	2.5	8.91	Si
6.4	2X/2Y ø8/19.9	28.65	-235.56	SLD 13	161.15	242.17	916.22	2.5	8.45	-27.19	-235.56	SLD 6	161.15	242.17	916.22	2.5	8.91	Si

2.1.2.3.7 Verifica delle tensioni in combinazioni rara

Tensione limite del calcestruzzo 18426 kN/m²

Tensione limite dell'acciaio 360000 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-5.95	0	0	-451.95	SLE RA 2	-965	0	0	-451.95	SLE RA 2	-14468	Si
-5.9	0	0	-451.46	SLE RA 3	-963	0	0	-451.46	SLE RA 3	-14452	Si
-5.6	0	0	-448.8	SLE RA 3	-958	0	0	-448.8	SLE RA 3	-14367	Si
-5.3	0	0	-446.1	SLE RA 3	-952	0	0	-446.1	SLE RA 3	-14281	Si
-5	0	0	-443.4	SLE RA 3	-946	0	0	-443.4	SLE RA 3	-14194	Si
-4.7	0	0	-440.7	SLE RA 3	-941	0	0	-440.7	SLE RA 3	-14108	Si
-4.4	0	0	-438	SLE RA 3	-935	0	0	-438	SLE RA 3	-14021	Si
-4.1	0	0	-435.3	SLE RA 3	-929	0	0	-435.3	SLE RA 3	-13935	Si
-3.8	0	0	-432.6	SLE RA 3	-923	0	0	-432.6	SLE RA 3	-13849	Si
-3.5	0	0	-429.9	SLE RA 3	-917	0	0	-429.9	SLE RA 3	-13762	Si
-3.2	0.0001	0	-427.2	SLE RA 3	-912	0.0001	0	-427.2	SLE RA 3	-13676	Si
-2.9	0.0001	0	-424.51	SLE RA 3	-893	0.0001	0	-424.51	SLE RA 3	-13388	Si
-2.6	0.0001	0	-421.8	SLE RA 3	-849	0.0001	0	-421.8	SLE RA 3	-12734	Si
-2.3	0.0001	0	-419.1	SLE RA 3	-809	0.0001	0	-419.1	SLE RA 3	-12135	Si
-2	0.0001	0	-416.4	SLE RA 3	-772	0.0001	0	-416.4	SLE RA 3	-11583	Si
-1.7	0.0001	0	-413.7	SLE RA 3	-752	0.0001	0	-413.7	SLE RA 3	-11283	Si
-1.4	0.0001	0	-411	SLE RA 3	-747	0.0001	0	-411	SLE RA 3	-11209	Si
-1.1	0.0001	0	-408.3	SLE RA 3	-742	0.0001	0	-408.3	SLE RA 3	-11135	Si

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-1.01	0.0001	0	-407.53	SLE RA 3	-741	0.0001	0	-407.53	SLE RA 3	-11115	Si
-0.8	0.0001	0	-405.6	SLE RA 3	-737	0.0001	0	-405.6	SLE RA 3	-11062	Si
-0.5	0.0001	0	-402.9	SLE RA 3	-733	0.0001	0	-402.9	SLE RA 3	-10988	Si
-0.2	0.0001	0	-400.2	SLE RA 3	-728	0.0001	0	-400.2	SLE RA 3	-10915	Si
0.1	0.0001	0	-397.5	SLE RA 3	-723	0.0001	0	-397.5	SLE RA 3	-10841	Si
0.4	0.0001	0	-394.8	SLE RA 3	-723	0.0001	0	-394.8	SLE RA 3	-10840	Si
0.7	0.0001	0	-392.1	SLE RA 3	-747	0.0001	0	-392.1	SLE RA 3	-11200	Si
1	0.0001	0	-389.4	SLE RA 3	-773	0.0001	0	-389.4	SLE RA 3	-11591	Si
1.3	0	0	-386.7	SLE RA 3	-801	0	0	-386.7	SLE RA 3	-12017	Si
1.6	0	0	-384	SLE RA 3	-820	0	0	-384	SLE RA 3	-12293	Si
1.9	0	0	-381.3	SLE RA 3	-814	0	0	-381.3	SLE RA 3	-12206	Si
2.2	0	0	-378.6	SLE RA 3	-808	0	0	-378.6	SLE RA 3	-12120	Si
2.5	0	0	-375.9	SLE RA 3	-802	0	0	-375.9	SLE RA 3	-12033	Si
2.8	0	0	-373.2	SLE RA 3	-796	0	0	-373.2	SLE RA 3	-11947	Si
3.1	0	0	-370.5	SLE RA 2	-791	0	0	-370.5	SLE RA 2	-11861	Si
3.4	0	0	-367.82	SLE RA 2	-785	0	0	-367.82	SLE RA 2	-11775	Si
3.7	0	0	-365.1	SLE RA 2	-779	0	0	-365.1	SLE RA 2	-11688	Si
4	0	0	-362.4	SLE RA 2	-773	0	0	-362.4	SLE RA 2	-11601	Si
4.3	0	0	-359.7	SLE RA 2	-768	0	0	-359.7	SLE RA 2	-11515	Si
4.6	-0.0001	0	-357	SLE RA 2	-762	-0.0001	0	-357	SLE RA 2	-11428	Si
4.9	-0.0001	0	-354.3	SLE RA 2	-756	-0.0001	0	-354.3	SLE RA 2	-11342	Si
5.2	-0.0001	0	-351.6	SLE RA 2	-750	-0.0001	0	-351.6	SLE RA 2	-11256	Si
5.5	-0.0001	0	-348.9	SLE RA 2	-745	-0.0001	0	-348.9	SLE RA 2	-11169	Si
5.8	-0.0001	0	-346.2	SLE RA 2	-739	-0.0001	0	-346.2	SLE RA 2	-11083	Si
6.1	-0.0001	0	-343.5	SLE RA 2	-733	-0.0001	0	-343.5	SLE RA 2	-10996	Si
6.4	-0.0001	0	-340.85	SLE RA 2	-727	-0.0001	0	-340.85	SLE RA 2	-10911	Si

2.1.2.3.8 Verifica delle tensioni sul calcestruzzo in combinazioni quasi permanenti

Tensione limite del calcestruzzo 13820 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Verifica
-5.95	0	0	-346.66	SLE QP 1	-740	Si
-5.9	0	0	-346.17	SLE QP 2	-739	Si
-5.6	0	0	-343.51	SLE QP 2	-733	Si
-5.3	0	0	-340.81	SLE QP 2	-727	Si
-5	0	0	-338.11	SLE QP 2	-722	Si
-4.7	0	0	-335.41	SLE QP 2	-716	Si
-4.4	0	0	-332.71	SLE QP 2	-710	Si
-4.1	0	0	-330.01	SLE QP 2	-704	Si
-3.8	0	0	-327.31	SLE QP 2	-699	Si
-3.5	0	0	-324.61	SLE QP 2	-693	Si
-3.2	0	0	-321.91	SLE QP 2	-687	Si
-2.9	0	0	-319.22	SLE QP 2	-671	Si
-2.6	0.0001	0	-316.51	SLE QP 2	-637	Si
-2.3	0.0001	0	-313.81	SLE QP 2	-606	Si
-2	0.0001	0	-311.11	SLE QP 2	-577	Si
-1.7	0.0001	0	-308.41	SLE QP 2	-561	Si
-1.4	0.0001	0	-305.71	SLE QP 2	-556	Si
-1.1	0.0001	0	-303.01	SLE QP 2	-551	Si
-1.01	0.0001	0	-302.24	SLE QP 2	-550	Si
-0.8	0.0001	0	-300.31	SLE QP 2	-546	Si
-0.5	0.0001	0	-297.61	SLE QP 2	-541	Si
-0.2	0.0001	0	-294.91	SLE QP 2	-536	Si
0.1	0.0001	0	-292.21	SLE QP 2	-531	Si
0.4	0.0001	0	-289.51	SLE QP 2	-530	Si
0.7	0	0	-286.81	SLE QP 2	-546	Si
1	0	0	-284.11	SLE QP 2	-564	Si
1.3	0	0	-281.41	SLE QP 2	-583	Si
1.6	0	0	-278.71	SLE QP 2	-595	Si
1.9	0	0	-276.01	SLE QP 2	-589	Si
2.2	0	0	-273.31	SLE QP 2	-583	Si
2.5	0	0	-270.61	SLE QP 2	-578	Si
2.8	0	0	-267.91	SLE QP 2	-572	Si
3.1	0	0	-265.21	SLE QP 2	-566	Si
3.4	0	0	-262.53	SLE QP 2	-560	Si
3.7	0	0	-259.81	SLE QP 1	-554	Si
4	0	0	-257.11	SLE QP 1	-549	Si
4.3	0	0	-254.41	SLE QP 1	-543	Si
4.6	0	0	-251.71	SLE QP 1	-537	Si
4.9	0	0	-249.01	SLE QP 1	-531	Si
5.2	0	0	-246.31	SLE QP 1	-526	Si
5.5	0	0	-243.61	SLE QP 1	-520	Si
5.8	0	0	-240.91	SLE QP 1	-514	Si
6.1	0	0	-238.21	SLE QP 1	-508	Si
6.4	-0.0001	0	-235.56	SLE QP 1	-503	Si

2.1.2.3.9 Verifica di apertura delle fessure nella famiglia di combinazioni frequente

Fessurazione non presente

2.1.2.3.10 Verifica di apertura delle fessure nella famiglia di combinazioni quasi permanente

Fessurazione non presente

2.1.2.4 Verifiche nodi trave colonna

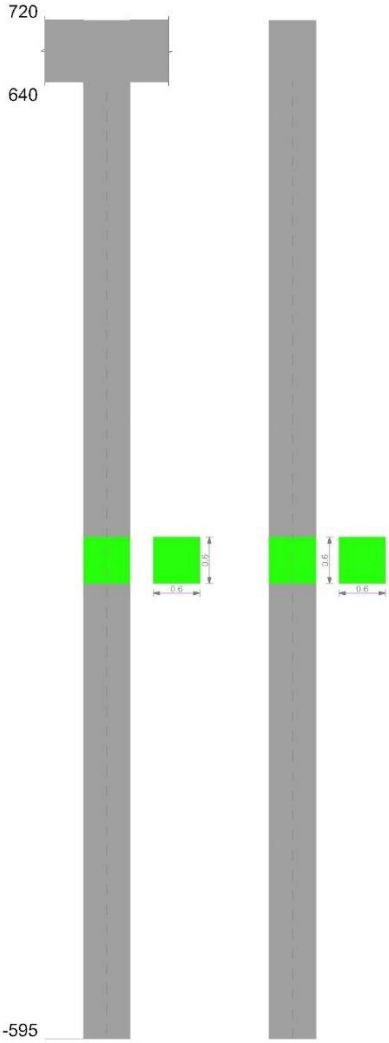
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

2.1.2.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

2.1.3 Pilastrata P24

Geometria



2.1.3.1 Dati della pilastrata

2.1.3.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.95	6.4	R 60x60	No	No	No	No		C30/37	B450C	

2.1.3.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.2	-0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.2	0	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.3	-0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	-0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.5	-0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.6	-0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C

2.1.3.2 Controlli geometrici NTC18

Nessuna anomalia

2.1.3.3 Verifiche delle sezioni

2.1.3.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	38.628	38.628	-605.93	394.0555	394.0555	SLU 17	10.201	Si
-5.9	0.007238	4	0	1,2	38.587	38.587	-605.29	394.0555	394.0555	SLU 17	10.212	Si
-5.6	0.007238	4	0	1,2	38.367	38.367	-601.83	394.0555	394.0555	SLU 17	10.271	Si
-5.3	0.007238	4	0	1,2	38.1432	38.1432	-598.32	394.0555	394.0555	SLU 17	10.331	Si
-5	0.007238	4	0	1,2	37.9194	37.9194	-594.81	394.0555	394.0555	SLU 17	10.392	Si
-4.7	0.007238	2	0	2	37.6957	37.6957	-591.3	394.0555	394.0555	SLU 17	10.454	Si
-4.4	0.007238	2	0	2	37.4719	37.4719	-587.79	394.0555	394.0555	SLU 17	10.516	Si
-4.1	0.007238	2	0	2	37.2482	37.2482	-584.28	394.0555	394.0555	SLU 17	10.579	Si
-3.8	0.007238	2	0	2	37.0244	37.0244	-580.77	394.0555	394.0555	SLU 17	10.643	Si
-3.5	0.007238	2	0	2	36.8006	36.8006	-577.26	394.0555	394.0555	SLU 17	10.708	Si
-3.2	0.007238	2	0	2	36.5769	36.5769	-573.75	394.0555	394.0555	SLU 17	10.773	Si
-2.9	0.007709	3.5	0	2,6	36.3537	36.3537	-570.25	402.1727	402.1727	SLU 17	11.063	Si
-2.6	0.009123	3.5	0	2,6	36.1293	36.1293	-566.73	426.4811	426.4811	SLU 17	11.804	Si
-2.3	0.010537	3.5	0	2,6	35.9056	35.9056	-563.22	450.6886	450.6886	SLU 17	12.552	Si
-2	0.011951	3.5	0	2,6	35.6818	35.6818	-559.71	474.8868	474.8868	SLU 17	13.309	Si
-1.7	0.012667	3.5	0	2,6	35.4581	35.4581	-556.2	487.1442	487.1442	SLU 17	13.739	Si
-1.4	0.012667	3.5	0	2,6	35.2343	35.2343	-552.69	487.1442	487.1442	SLU 17	13.826	Si
-1.1	0.012667	3.5	0	2,6	35.0105	35.0105	-549.18	487.1442	487.1442	SLU 17	13.914	Si
-1.01	0.012667	3.5	0	2,6	34.9468	34.9468	-548.18	487.1442	487.1442	SLU 17	13.94	Si
-0.8	0.012667	3.5	0	2,6	34.7868	34.7868	-545.67	487.1442	487.1442	SLU 17	14.004	Si
-0.5	0.012667	3.5	0	2,6	34.563	34.563	-542.16	487.1442	487.1442	SLU 17	14.094	Si
-0.2	0.012667	3.5	0	2,6	34.3392	34.3392	-538.65	487.1442	487.1442	SLU 17	14.186	Si
0.1	0.012667	3.5	0	2,6	34.1155	34.1155	-535.14	487.1442	487.1442	SLU 17	14.279	Si
0.4	0.012422	5.5	0	2,3,4,6	33.8917	33.8917	-531.63	482.9511	482.9511	SLU 17	14.25	Si
0.7	0.011008	5.5	0	2,3,4,6	33.668	33.668	-528.12	458.7556	458.7556	SLU 17	13.626	Si
1	0.009594	5.5	0	2,3,4,6	33.4442	33.4442	-524.61	434.5514	434.5514	SLU 17	12.993	Si
1.3	0.008181	5.5	0	2,3,4,6	33.2204	33.2204	-521.1	410.2861	410.2861	SLU 17	12.35	Si
1.6	0.007238	2	0	3,4	32.9967	32.9967	-517.59	394.0555	394.0555	SLU 17	11.942	Si
1.9	0.007238	2	0	3,4	32.7729	32.7729	-514.08	394.0555	394.0555	SLU 17	12.024	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
2.2	0.007238	2	0	3,4	32.5491	32.5491	-510.57	394.0555	394.0555	SLU 17	12.106	Si
2.5	0.007238	2	0	3,4	32.3254	32.3254	-507.06	394.0555	394.0555	SLU 17	12.19	Si
2.8	0.007238	2	0	3,4	32.1016	32.1016	-503.55	394.0555	394.0555	SLU 17	12.275	Si
3.1	0.007238	2	0	3,4	31.8779	31.8779	-500.04	394.0555	394.0555	SLU 17	12.361	Si
3.4	0.007238	2	0	3,4	31.6553	31.6553	-496.55	394.0555	394.0555	SLU 17	12.448	Si
3.7	0.007238	2	0	3,4	31.4303	31.4303	-493.02	394.0555	394.0555	SLU 17	12.537	Si
4	0.007238	2	0	3,4	31.2066	31.2066	-489.51	394.0555	394.0555	SLU 17	12.627	Si
4.3	0.007238	2	0	3,4	30.9828	30.9828	-486	394.0555	394.0555	SLU 17	12.719	Si
4.6	0.007238	2	0	3,4	30.759	30.759	-482.49	394.0555	394.0555	SLU 17	12.811	Si
4.9	0.007238	2	0	3,4	30.5353	30.5353	-478.98	394.0555	394.0555	SLU 17	12.905	Si
5.2	0.007238	2	0	3,4	30.3115	30.3115	-475.47	394.0555	394.0555	SLU 17	13	Si
5.5	0.007238	2	0	3,4	30.0878	30.0878	-471.96	394.0555	394.0555	SLU 17	13.097	Si
5.8	0.007238	2	0	3,4	29.864	29.864	-468.45	394.0555	394.0555	SLU 17	13.195	Si
6.1	0.007238	2	0	3,4	29.6402	29.6402	-464.94	394.0555	394.0555	SLU 17	13.295	Si
6.4	0.007238	2	0	3,4	29.4202	29.4202	-461.49	394.0555	394.0555	SLU 17	13.394	Si

2.1.3.3.2 Verifica a pressoflessione in SLV (domini sostanzialmente elastici)

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-5.95	0.007238	4	0	1,2	0	0	-342.88	-2.02	1.92	0	0	SLV 7	22.877				Si
-5.9	0.007238	4	0	1,2	-5.595	1.8252	-342.39	-2.02	1.92	-128.1834	41.8152	SLV 7	22.91				Si
-5.6	0.007238	4	0	1,2	10.821	38.7166	-339.73	-2.02	1.92	149.3922	534.5111	SLV 2	13.806				Si
-5.3	0.007238	4	0	1,2	20.0962	71.9023	-337.03	-2.02	1.92	175.8002	628.9963	SLV 2	8.748				Si
-5	0.007238	4	0	1,2	29.3714	105.0879	-334.33	-2.02	1.92	182.2072	651.9201	SLV 2	6.204				Si
-4.7	0.007238	2	0	2	38.6465	138.2736	-331.63	-2.02	1.92	185.1198	662.3409	SLV 2	4.79				Si
-4.4	0.007238	2	0	2	47.9217	171.4593	-328.93	-2.02	1.92	179.1187	640.8697	SLV 2	3.738				Si
-4.1	0.007238	2	0	2	57.1969	204.6449	-326.23	-2.02	1.92	168.8524	604.138	SLV 2	2.952				Si
-3.8	0.007238	2	0	2	66.472	237.8306	-323.53	-2.02	1.92	161.7871	578.8589	SLV 2	2.434				Si
-3.5	0.007238	2	0	2	75.7472	271.0163	-320.83	-2.02	1.92	156.6791	560.5828	SLV 2	2.068				Si
-3.2	0.007238	2	0	2	85.0224	304.2019	-318.13	-2.02	1.92	152.7922	546.6758	SLV 2	1.797				Si
-2.9	0.007709	3.5	0	2,6	94.2726	337.2984	-315.44	-2.02	1.92	157.1595	562.3017	SLV 2	1.667				Si
-2.6	0.009123	3.5	0	2,6	103.5727	370.5733	-312.73	-2.02	1.92	176.2311	630.5382	SLV 2	1.702				Si
-2.3	0.010537	3.5	0	2,6	112.8479	403.7589	-310.03	-2.02	1.92	194.9739	697.5981	SLV 2	1.728				Si
-2	0.011951	3.5	0	2,6	122.123	436.9446	-307.33	-2.02	1.92	213.4447	763.6847	SLV 2	1.748				Si
-1.7	0.012667	3.5	0	2,6	131.3982	470.1303	-304.63	-2.02	1.92	221.8658	793.8148	SLV 2	1.688				Si
-1.4	0.012667	3.5	0	2,6	140.6734	503.3159	-301.93	-2.02	1.92	220.2772	788.131	SLV 2	1.566				Si
-1.1	0.012667	3.5	0	2,6	149.9486	536.5016	-299.23	-2.02	1.92	218.9038	783.2168	SLV 2	1.46				Si
-1.01	0.012667	3.5	0	2,6	152.5915	545.9577	-298.46	-2.02	1.92	218.5458	781.9361	SLV 2	1.432				Si
-0.8	0.012667	3.5	0	2,6	150.2837	537.6985	-296.53	-2.02	1.92	218.7018	782.4911	SLV 2	1.455				Si
-0.5	0.012667	3.5	0	2,6	144.233	516.0462	-293.83	-2.02	1.92	219.2836	784.567	SLV 2	1.52				Si
-0.2	0.012667	3.5	0	2,6	138.1824	494.3939	-291.13	-2.02	1.92	219.9198	786.8372	SLV 2	1.592				Si
0.1	0.012667	3.5	0	2,6	132.1317	472.7416	-288.43	-2.02	1.92	220.6185	789.3304	SLV 2	1.67				Si
0.4	0.012422	5.5	0	2,3,4,6	126.081	451.0893	-285.73	-2.02	1.92	217.9084	779.6266	SLV 2	1.728				Si
0.7	0.011008	5.5	0	2,3,4,6	120.0304	429.437	-283.03	-2.02	1.92	198.4816	710.1147	SLV 2	1.654				Si
1	0.009594	5.5	0	2,3,4,6	113.9797	407.7847	-280.33	-2.02	1.92	178.6711	639.2307	SLV 2	1.568				Si
1.3	0.008181	5.5	0	2,3,4,6	107.9291	386.1325	-277.63	-2.02	1.92	158.496	567.0433	SLV 2	1.469				Si
1.6	0.007238	2	0	3,4	101.8784	364.4802	-274.93	-2.02	1.92	145.0679	518.9947	SLV 2	1.424				Si
1.9	0.007238	2	0	3,4	95.8278	342.8279	-272.23	-2.02	1.92	146.0962	522.6652	SLV 2	1.525				Si
2.2	0.007238	2	0	3,4	89.7771	321.1756	-269.53	-2.02	1.92	147.2809	526.894	SLV 2	1.641				Si
2.5	0.007238	2	0	3,4	83.7265	299.5233	-266.83	-2.02	1.92	148.6607	531.8189	SLV 2	1.776				Si
2.8	0.007238	2	0	3,4	77.6758	277.871	-264.13	-2.02	1.92	150.2386	537.451	SLV 2	1.934				Si
3.1	0.007238	2	0	3,4	71.6252	256.2187	-261.43	-2.02	1.92	152.1198	544.1652	SLV 2	2.124				Si

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.4	0.007238	2	0	3,4	65.6071	234.6829	-258.75	-2.02	1.92	154.3953	552.2868	SLV 2	2.353				Si
3.7	0.007238	2	0	3,4	59.5239	212.9142	-256.03	-2.02	1.92	157.2548	562.4931	SLV 2	2.642				Si
4	0.007238	2	0	3,4	53.4732	191.2619	-253.33	-2.02	1.92	160.7741	575.0533	SLV 2	3.007				Si
4.3	0.007238	2	0	3,4	47.4226	169.6096	-250.63	-2.02	1.92	165.3158	591.2614	SLV 2	3.486				Si
4.6	0.007238	2	0	3,4	41.372	147.9573	-247.93	-2.02	1.92	171.4847	613.2757	SLV 2	4.145				Si
4.9	0.007238	2	0	3,4	35.3213	126.305	-245.23	-2.02	1.92	179.9618	643.5231	SLV 2	5.095				Si
5.2	0.007238	2	0	3,4	29.2707	104.6527	-242.53	-2.02	1.92	185.485	663.1726	SLV 2	6.337				Si
5.5	0.007238	2	0	3,4	23.2201	83.0004	-239.83	-2.02	1.92	183.4573	655.7707	SLV 2	7.901				Si
5.8	0.007238	2	0	3,4	17.1695	61.3481	-237.13	-2.02	1.92	179.6903	642.0508	SLV 2	10.466				Si
6.1	0.007238	2	0	3,4	11.119	39.6959	-234.43	-2.02	1.92	169.4863	605.0824	SLV 2	15.243				Si
6.4	0.007238	2	0	3,4	5.1939	18.4044	-231.78	-2.02	1.92	125.1046	443.3078	SLV 2	24.087				Si

2.1.3.3.3 Verifica a pressoflessione in SLD

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	0	0	-342.88	0	0	SLD 7	22.877	Si
-5.9	0.007238	4	0	1,2	-2.2204	0.7242	-342.39	-50.8689	16.5919	SLD 8	22.91	Si
-5.6	0.007238	4	0	1,2	4.2985	15.3624	-339.73	84.8535	303.2571	SLD 2	19.74	Si
-5.3	0.007238	4	0	1,2	7.983	28.5302	-337.03	128.852	460.5032	SLD 2	16.141	Si
-5	0.007238	4	0	1,2	11.6674	41.698	-334.33	155.0062	553.9755	SLD 2	13.285	Si
-4.7	0.007238	2	0	2	15.3518	54.8658	-331.63	168.4488	602.0179	SLD 2	10.973	Si
-4.4	0.007238	2	0	2	19.0363	68.0336	-328.93	175.2472	626.3148	SLD 2	9.206	Si
-4.1	0.007238	2	0	2	22.7207	81.2014	-326.23	179.0207	639.8006	SLD 2	7.879	Si
-3.8	0.007238	2	0	2	26.4052	94.3692	-323.53	181.4183	648.3695	SLD 2	6.871	Si
-3.5	0.007238	2	0	2	30.0896	107.537	-320.83	183.1302	654.4878	SLD 2	6.086	Si
-3.2	0.007238	2	0	2	33.774	120.7048	-318.13	184.4397	659.1676	SLD 2	5.461	Si
-2.9	0.007709	3.5	0	2,6	37.4486	133.8372	-315.44	190.4238	680.5544	SLD 2	5.085	Si
-2.6	0.009123	3.5	0	2,6	41.1429	147.0404	-312.73	206.3368	737.4257	SLD 2	5.015	Si
-2.3	0.010537	3.5	0	2,6	44.8274	160.2082	-310.03	222.2515	794.3029	SLD 2	4.958	Si
-2	0.011951	3.5	0	2,6	48.5118	173.376	-307.33	238.1551	851.1406	SLD 2	4.909	Si
-1.7	0.012667	3.5	0	2,6	52.1962	186.5437	-304.63	246.8442	882.1947	SLD 2	4.729	Si
-1.4	0.012667	3.5	0	2,6	55.8807	199.7115	-301.93	248.0193	886.3944	SLD 2	4.438	Si
-1.1	0.012667	3.5	0	2,6	59.5651	212.8794	-299.23	247.308	883.852	SLD 2	4.152	Si
-1.01	0.012667	3.5	0	2,6	60.615	216.6315	-298.46	246.9097	882.4287	SLD 2	4.073	Si
-0.8	0.012667	3.5	0	2,6	59.6982	213.3543	-296.53	247.0832	883.0455	SLD 2	4.139	Si
-0.5	0.012667	3.5	0	2,6	57.2947	204.7628	-293.83	247.7304	885.3522	SLD 2	4.324	Si
-0.2	0.012667	3.5	0	2,6	54.8911	196.1714	-291.13	248.2938	887.359	SLD 2	4.523	Si
0.1	0.012667	3.5	0	2,6	52.4876	187.5799	-288.43	247.7734	885.4918	SLD 2	4.721	Si
0.4	0.012422	5.5	0	2,3,4,6	50.084	178.9885	-285.73	244.6546	874.3376	SLD 2	4.885	Si
0.7	0.011008	5.5	0	2,3,4,6	47.6805	170.397	-283.03	228.7984	817.6631	SLD 2	4.799	Si
1	0.009594	5.5	0	2,3,4,6	45.2769	161.8056	-280.33	211.5569	756.0383	SLD 2	4.673	Si
1.3	0.008181	5.5	0	2,3,4,6	42.8734	153.2141	-277.63	191.8494	685.6015	SLD 2	4.475	Si
1.6	0.007238	2	0	3,4	40.4698	144.6227	-274.93	178.7205	638.6746	SLD 2	4.416	Si
1.9	0.007238	2	0	3,4	38.0663	136.0312	-272.23	182.0522	650.5707	SLD 2	4.783	Si
2.2	0.007238	2	0	3,4	35.6627	127.4398	-269.53	184.7602	660.236	SLD 2	5.181	Si
2.5	0.007238	2	0	3,4	33.2592	118.8483	-266.83	185.671	663.4773	SLD 2	5.583	Si
2.8	0.007238	2	0	3,4	30.8556	110.2569	-264.13	185.3199	662.207	SLD 2	6.006	Si
3.1	0.007238	2	0	3,4	28.452	101.6654	-261.43	184.6989	659.9698	SLD 2	6.492	Si
3.4	0.007238	2	0	3,4	26.0614	93.1202	-258.75	183.9352	657.22	SLD 2	7.058	Si
3.7	0.007238	2	0	3,4	23.6449	84.4826	-256.03	182.9907	653.8193	SLD 2	7.739	Si
4	0.007238	2	0	3,4	21.2414	75.8911	-253.33	181.8115	649.5748	SLD 2	8.559	Si
4.3	0.007238	2	0	3,4	18.8378	67.2997	-250.63	180.2909	644.1034	SLD 2	9.571	Si
4.6	0.007238	2	0	3,4	16.4343	58.7082	-247.93	178.1865	636.5356	SLD 2	10.842	Si
4.9	0.007238	2	0	3,4	14.0307	50.1168	-245.23	175.0337	625.2071	SLD 2	12.475	Si
5.2	0.007238	2	0	3,4	11.6272	41.5253	-242.53	169.8093	606.4559	SLD 2	14.604	Si
5.5	0.007238	2	0	3,4	9.2237	32.9339	-239.83	160.3539	572.5573	SLD 2	17.385	Si
5.8	0.007238	2	0	3,4	6.8201	24.3424	-237.13	142.8202	509.7545	SLD 2	20.941	Si
6.1	0.007238	2	0	3,4	4.4166	15.751	-234.43	112.0259	399.515	SLD 2	25.364	Si
6.4	0.007238	2	0	3,4	2.0632	7.3027	-231.78	64.8428	229.5147	SLD 2	31.429	Si

2.1.3.3.4 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	0	-339.66	SLU 1	175.34	242.17	930.89	2.5	1000	0	-339.66	SLU 1	175.34	242.17	930.89	2.5	1000	Si
-5.9	2X/2Y ø8/19.9	0	-339.17	SLU 1	175.27	242.17	930.82	2.5	1000	0	-339.17	SLU 1	175.27	242.17	930.82	2.5	1000	Si
-5.6	2X/2Y ø8/19.9	0	-336.51	SLU 1	174.91	242.17	930.45	2.5	1000	0	-336.51	SLU 1	174.91	242.17	930.45	2.5	1000	Si
-5.3	2X/2Y ø8/19.9	0	-333.81	SLU 1	174.54	242.17	930.07	2.5	1000	0	-333.81	SLU 1	174.54	242.17	930.07	2.5	1000	Si
-5	2X/2Y ø8/19.9	0	-331.11	SLU 1	174.17	242.17	929.69	2.5	1000	0	-331.11	SLU 1	174.17	242.17	929.69	2.5	1000	Si
-4.7	2X/2Y ø8/19.9	0	-328.41	SLU 1	173.8	242.17	929.31	2.5	1000	0	-328.41	SLU 1	173.8	242.17	929.31	2.5	1000	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-4.4	2X/2Y ø8/19.9	0	-325.71	SLU 1	173.44	242.17	928.93	2.5	1000	0	-325.71	SLU 1	173.44	242.17	928.93	2.5	1000	Si
-4.1	2X/2Y ø8/19.9	0	-323.01	SLU 1	173.07	242.17	928.55	2.5	1000	0	-323.01	SLU 1	173.07	242.17	928.55	2.5	1000	Si
-3.8	2X/2Y ø8/19.9	0	-320.31	SLU 1	172.7	242.17	928.17	2.5	1000	0	-320.31	SLU 1	172.7	242.17	928.17	2.5	1000	Si
-3.5	2X/2Y ø8/19.9	0	-317.61	SLU 1	172.33	242.17	927.79	2.5	1000	0	-317.61	SLU 1	172.33	242.17	927.79	2.5	1000	Si
-3.2	2X/2Y ø8/19.9	0	-314.91	SLU 1	171.97	242.17	927.41	2.5	1000	0	-314.91	SLU 1	171.97	242.17	927.41	2.5	1000	Si
-2.9	2X/2Y ø8/19.9	0	-312.22	SLU 1	171.6	242.17	927.03	2.5	1000	0	-312.22	SLU 1	171.6	242.17	927.03	2.5	1000	Si
-2.6	2X/2Y ø8/19.9	0	-309.51	SLU 1	171.23	242.17	926.64	2.5	1000	0	-309.51	SLU 1	171.23	242.17	926.64	2.5	1000	Si
-2.3	2X/2Y ø8/19.9	0	-306.81	SLU 1	170.86	242.17	926.26	2.5	1000	0	-306.81	SLU 1	170.86	242.17	926.26	2.5	1000	Si
-2	2X/2Y ø8/19.9	0	-304.11	SLU 1	170.49	242.17	925.88	2.5	1000	0	-304.11	SLU 1	170.49	242.17	925.88	2.5	1000	Si
-1.7	2X/2Y ø8/19.9	0	-301.41	SLU 1	170.13	242.17	925.5	2.5	1000	0	-301.41	SLU 1	170.13	242.17	925.5	2.5	1000	Si
-1.4	2X/2Y ø8/19.9	0	-298.71	SLU 1	169.76	242.17	925.12	2.5	1000	0	-298.71	SLU 1	169.76	242.17	925.12	2.5	1000	Si
-1.1	2X/2Y ø8/19.9	0	-296.01	SLU 1	169.39	242.17	924.74	2.5	1000	0	-296.01	SLU 1	169.39	242.17	924.74	2.5	1000	Si
-1.01	2X/2Y ø8/19.9	0	-295.24	SLU 1	169.29	242.17	924.63	2.5	1000	0	-295.24	SLU 1	169.29	242.17	924.63	2.5	1000	Si
-0.8	2X/2Y ø8/19.9	0	-293.31	SLU 1	169.02	242.17	924.36	2.5	1000	0	-293.31	SLU 1	169.02	242.17	924.36	2.5	1000	Si
-0.5	2X/2Y ø8/19.9	0	-290.61	SLU 1	168.65	242.17	923.98	2.5	1000	0	-290.61	SLU 1	168.65	242.17	923.98	2.5	1000	Si
-0.2	2X/2Y ø8/19.9	0	-287.91	SLU 1	168.29	242.17	923.6	2.5	1000	0	-287.91	SLU 1	168.29	242.17	923.6	2.5	1000	Si
0.1	2X/2Y ø8/19.9	0	-285.21	SLU 1	167.92	242.17	923.22	2.5	1000	0	-285.21	SLU 1	167.92	242.17	923.22	2.5	1000	Si
0.4	2X/2Y ø8/19.9	0	-282.51	SLU 1	167.55	242.17	922.84	2.5	1000	0	-282.51	SLU 1	167.55	242.17	922.84	2.5	1000	Si
0.7	2X/2Y ø8/19.9	0	-279.81	SLU 1	167.18	242.17	922.46	2.5	1000	0	-279.81	SLU 1	167.18	242.17	922.46	2.5	1000	Si
1	2X/2Y ø8/19.9	0	-277.11	SLU 1	166.82	242.17	922.08	2.5	1000	0	-277.11	SLU 1	166.82	242.17	922.08	2.5	1000	Si
1.3	2X/2Y ø8/19.9	0	-274.41	SLU 1	166.45	242.17	921.7	2.5	1000	0	-274.41	SLU 1	166.45	242.17	921.7	2.5	1000	Si
1.6	2X/2Y ø8/19.9	0	-271.71	SLU 1	166.08	242.17	921.32	2.5	1000	0	-271.71	SLU 1	166.08	242.17	921.32	2.5	1000	Si
1.9	2X/2Y ø8/19.9	0	-269.01	SLU 1	165.71	242.17	920.94	2.5	1000	0	-269.01	SLU 1	165.71	242.17	920.94	2.5	1000	Si
2.2	2X/2Y ø8/19.9	0	-266.31	SLU 1	165.34	242.17	920.55	2.5	1000	0	-266.31	SLU 1	165.34	242.17	920.55	2.5	1000	Si
2.5	2X/2Y ø8/19.9	0	-263.61	SLU 1	164.98	242.17	920.17	2.5	1000	0	-263.61	SLU 1	164.98	242.17	920.17	2.5	1000	Si
2.8	2X/2Y ø8/19.9	0	-260.91	SLU 1	164.61	242.17	919.79	2.5	1000	0	-260.91	SLU 1	164.61	242.17	919.79	2.5	1000	Si
3.1	2X/2Y ø8/19.9	0	-258.21	SLU 1	164.24	242.17	919.41	2.5	1000	0	-258.21	SLU 1	164.24	242.17	919.41	2.5	1000	Si
3.4	2X/2Y ø8/19.9	0	-255.53	SLU 1	163.87	242.17	919.03	2.5	1000	0	-255.53	SLU 1	163.87	242.17	919.03	2.5	1000	Si
3.7	2X/2Y ø8/19.9	0	-252.81	SLU 1	163.5	242.17	918.65	2.5	1000	0	-252.81	SLU 1	163.5	242.17	918.65	2.5	1000	Si
4	2X/2Y ø8/19.9	0	-250.11	SLU 1	163.14	242.17	918.27	2.5	1000	0	-250.11	SLU 1	163.14	242.17	918.27	2.5	1000	Si
4.3	2X/2Y ø8/19.9	0	-247.41	SLU 1	162.77	242.17	917.89	2.5	1000	0	-247.41	SLU 1	162.77	242.17	917.89	2.5	1000	Si
4.6	2X/2Y ø8/19.9	0	-244.71	SLU 1	162.4	242.17	917.51	2.5	1000	0	-244.71	SLU 1	162.4	242.17	917.51	2.5	1000	Si
4.9	2X/2Y ø8/19.9	0	-242.01	SLU 1	162.03	242.17	917.13	2.5	1000	0	-242.01	SLU 1	162.03	242.17	917.13	2.5	1000	Si
5.2	2X/2Y ø8/19.9	0	-239.31	SLU 1	161.66	242.17	916.75	2.5	1000	0	-239.31	SLU 1	161.66	242.17	916.75	2.5	1000	Si
5.5	2X/2Y ø8/19.9	0	-236.61	SLU 1	161.3	242.17	916.37	2.5	1000	0	-236.61	SLU 1	161.3	242.17	916.37	2.5	1000	Si
5.8	2X/2Y ø8/19.9	0	-233.91	SLU 1	160.93	242.17	915.99	2.5	1000	0	-233.91	SLU 1	160.93	242.17	915.99	2.5	1000	Si
6.1	2X/2Y ø8/19.9	0	-231.21	SLU 1	160.56	242.17	915.61	2.5	1000	0	-231.21	SLU 1	160.56	242.17	915.61	2.5	1000	Si
6.4	2X/2Y ø8/19.9	0	-228.56	SLU 1	160.2	242.17	915.23	2.5	1000	0	-228.56	SLU 1	160.2	242.17	915.23	2.5	1000	Si

2.1.3.3.5 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	110.62	-342.88	SLV 1	175.78	242.17	931.35	2.5	2.19	101.95	-342.88	SLV 6	175.78	242.17	931.35	2.5	2.38	Si
-5.9	2X/2Y ø8/19.9	110.62	-342.39	SLV 1	175.71	242.17	931.28	2.5	2.19	101.95	-342.39	SLV 6	175.71	242.17	931.28	2.5	2.38	Si
-5.6	2X/2Y ø8/19.9	110.62	-339.73	SLV 1	175.35	242.17	930.9	2.5	2.19	101.95	-339.73	SLV 6	175.35	242.17	930.9	2.5	2.38	Si
-5.3	2X/2Y ø8/19.9	110.62	-337.03	SLV 1	174.98	242.17	930.52	2.5	2.19	101.95	-337.03	SLV 6	174.98	242.17	930.52	2.5	2.38	Si
-5	2X/2Y ø8/19.9	110.62	-334.33	SLV 1	174.61	242.17	930.14	2.5	2.19	101.95	-334.33	SLV 6	174.61	242.17	930.14	2.5	2.38	Si
-4.7	2X/2Y ø8/19.9	110.62	-331.63	SLV 1	174.24	242.17	929.76	2.5	2.19	101.95	-331.63	SLV 6	174.24	242.17	929.76	2.5	2.38	Si
-4.4	2X/2Y ø8/19.9	110.62	-328.93	SLV 1	173.88	242.17	929.38	2.5	2.19	101.95	-328.93	SLV 6	173.88	242.17	929.38	2.5	2.38	Si
-4.1	2X/2Y ø8/19.9	110.62	-326.23	SLV 1	173.51	242.17	929	2.5	2.19	101.95	-326.23	SLV 6	173.51	242.17	929	2.5	2.38	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.8	2X/2Y ø8/19.9	110.62	-323.53	SLV 1	173.14	242.17	928.62	2.5	2.19	101.95	-323.53	SLV 6	173.14	242.17	928.62	2.5	2.38	Si
-3.5	2X/2Y ø8/19.9	110.62	-320.83	SLV 1	172.77	242.17	928.24	2.5	2.19	101.95	-320.83	SLV 6	172.77	242.17	928.24	2.5	2.38	Si
-3.2	2X/2Y ø8/19.9	110.62	-318.13	SLV 1	172.4	242.17	927.86	2.5	2.19	101.95	-318.13	SLV 6	172.4	242.17	927.86	2.5	2.38	Si
-2.9	2X/2Y ø8/19.9	110.62	-315.44	SLV 1	172.04	242.17	927.48	2.5	2.19	101.95	-315.44	SLV 6	172.04	242.17	927.48	2.5	2.38	Si
-2.6	2X/2Y ø8/19.9	110.62	-312.73	SLV 1	171.67	242.17	927.1	2.5	2.19	101.95	-312.73	SLV 6	171.67	242.17	927.1	2.5	2.38	Si
-2.3	2X/2Y ø8/19.9	110.62	-310.03	SLV 1	171.3	242.17	926.72	2.5	2.19	101.95	-310.03	SLV 6	171.3	242.17	926.72	2.5	2.38	Si
-2	2X/2Y ø8/19.9	110.62	-307.33	SLV 1	170.93	242.17	926.34	2.5	2.19	101.95	-307.33	SLV 6	170.93	242.17	926.34	2.5	2.38	Si
-1.7	2X/2Y ø8/19.9	110.62	-304.63	SLV 1	170.56	242.17	925.96	2.5	2.19	101.95	-304.63	SLV 6	170.56	242.17	925.96	2.5	2.38	Si
-1.4	2X/2Y ø8/19.9	110.62	-301.93	SLV 1	170.2	242.17	925.58	2.5	2.19	101.95	-301.93	SLV 6	170.2	242.17	925.58	2.5	2.38	Si
-1.1	2X/2Y ø8/19.9	110.62	-299.23	SLV 1	169.83	242.17	925.19	2.5	2.19	101.95	-299.23	SLV 6	169.83	242.17	925.19	2.5	2.38	Si
-1.01	2X/2Y ø8/19.9	110.62	-298.46	SLV 1	169.72	242.17	925.09	2.5	2.19	101.95	-298.46	SLV 6	169.72	242.17	925.09	2.5	2.38	Si
-0.8	2X/2Y ø8/19.9	-72.17	-296.53	SLV 1	169.46	242.17	924.81	2.5	3.36	-66.5	-296.53	SLV 6	169.46	242.17	924.81	2.5	3.64	Si
-0.5	2X/2Y ø8/19.9	-72.17	-293.83	SLV 1	169.09	242.17	924.43	2.5	3.36	-66.5	-293.83	SLV 6	169.09	242.17	924.43	2.5	3.64	Si
-0.2	2X/2Y ø8/19.9	-72.17	-291.13	SLV 1	168.73	242.17	924.05	2.5	3.36	-66.5	-291.13	SLV 6	168.73	242.17	924.05	2.5	3.64	Si
0.1	2X/2Y ø8/19.9	-72.17	-288.43	SLV 1	168.36	242.17	923.67	2.5	3.36	-66.5	-288.43	SLV 6	168.36	242.17	923.67	2.5	3.64	Si
0.4	2X/2Y ø8/19.9	-72.17	-285.73	SLV 1	167.99	242.17	923.29	2.5	3.36	-66.5	-285.73	SLV 6	167.99	242.17	923.29	2.5	3.64	Si
0.7	2X/2Y ø8/19.9	-72.17	-283.03	SLV 1	167.62	242.17	922.91	2.5	3.36	-66.5	-283.03	SLV 6	167.62	242.17	922.91	2.5	3.64	Si
1	2X/2Y ø8/19.9	-72.17	-280.33	SLV 1	167.25	242.17	922.53	2.5	3.36	-66.5	-280.33	SLV 6	167.25	242.17	922.53	2.5	3.64	Si
1.3	2X/2Y ø8/19.9	-72.17	-277.63	SLV 1	166.89	242.17	922.15	2.5	3.36	-66.5	-277.63	SLV 6	166.89	242.17	922.15	2.5	3.64	Si
1.6	2X/2Y ø8/19.9	-72.17	-274.93	SLV 1	166.52	242.17	921.77	2.5	3.36	-66.5	-274.93	SLV 6	166.52	242.17	921.77	2.5	3.64	Si
1.9	2X/2Y ø8/19.9	-72.17	-272.23	SLV 1	166.15	242.17	921.39	2.5	3.36	-66.5	-272.23	SLV 6	166.15	242.17	921.39	2.5	3.64	Si
2.2	2X/2Y ø8/19.9	-72.17	-269.53	SLV 1	165.78	242.17	921.01	2.5	3.36	-66.5	-269.53	SLV 6	165.78	242.17	921.01	2.5	3.64	Si
2.5	2X/2Y ø8/19.9	-72.17	-266.83	SLV 1	165.41	242.17	920.63	2.5	3.36	-66.5	-266.83	SLV 6	165.41	242.17	920.63	2.5	3.64	Si
2.8	2X/2Y ø8/19.9	-72.17	-264.13	SLV 1	165.05	242.17	920.25	2.5	3.36	-66.5	-264.13	SLV 6	165.05	242.17	920.25	2.5	3.64	Si
3.1	2X/2Y ø8/19.9	-72.17	-261.43	SLV 1	164.68	242.17	919.87	2.5	3.36	-66.5	-261.43	SLV 6	164.68	242.17	919.87	2.5	3.64	Si
3.4	2X/2Y ø8/19.9	-72.17	-258.75	SLV 1	164.31	242.17	919.49	2.5	3.36	-66.5	-258.75	SLV 6	164.31	242.17	919.49	2.5	3.64	Si
3.7	2X/2Y ø8/19.9	-72.17	-256.03	SLV 1	163.94	242.17	919.11	2.5	3.36	-66.5	-256.03	SLV 6	163.94	242.17	919.11	2.5	3.64	Si
4	2X/2Y ø8/19.9	-72.17	-253.33	SLV 1	163.58	242.17	918.73	2.5	3.36	-66.5	-253.33	SLV 6	163.58	242.17	918.73	2.5	3.64	Si
4.3	2X/2Y ø8/19.9	-72.17	-250.63	SLV 1	163.21	242.17	918.34	2.5	3.36	-66.5	-250.63	SLV 6	163.21	242.17	918.34	2.5	3.64	Si
4.6	2X/2Y ø8/19.9	-72.17	-247.93	SLV 1	162.84	242.17	917.96	2.5	3.36	-66.5	-247.93	SLV 6	162.84	242.17	917.96	2.5	3.64	Si
4.9	2X/2Y ø8/19.9	-72.17	-245.23	SLV 1	162.47	242.17	917.58	2.5	3.36	-66.5	-245.23	SLV 6	162.47	242.17	917.58	2.5	3.64	Si
5.2	2X/2Y ø8/19.9	-72.17	-242.53	SLV 1	162.1	242.17	917.2	2.5	3.36	-66.5	-242.53	SLV 6	162.1	242.17	917.2	2.5	3.64	Si
5.5	2X/2Y ø8/19.9	-72.17	-239.83	SLV 1	161.74	242.17	916.82	2.5	3.36	-66.5	-239.83	SLV 6	161.74	242.17	916.82	2.5	3.64	Si
5.8	2X/2Y ø8/19.9	-72.17	-237.13	SLV 1	161.37	242.17	916.44	2.5	3.36	-66.5	-237.13	SLV 6	161.37	242.17	916.44	2.5	3.64	Si
6.1	2X/2Y ø8/19.9	-72.17	-234.43	SLV 1	161	242.17	916.06	2.5	3.36	-66.5	-234.43	SLV 6	161	242.17	916.06	2.5	3.64	Si
6.4	2X/2Y ø8/19.9	-72.17	-231.78	SLV 1	160.64	242.17	915.69	2.5	3.36	-66.5	-231.78	SLV 6	160.64	242.17	915.69	2.5	3.64	Si

2.1.3.3.6 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	43.89	-342.88	SLD 1	175.78	242.17	931.35	2.5	5.52	40.46	-342.88	SLD 6	175.78	242.17	931.35	2.5	5.98	Si
-5.9	2X/2Y ø8/19.9	43.89	-342.39	SLD 1	175.71	242.17	931.28	2.5	5.52	40.46	-342.39	SLD 6	175.71	242.17	931.28	2.5	5.98	Si
-5.6	2X/2Y ø8/19.9	43.89	-339.73	SLD 1	175.35	242.17	930.9	2.5	5.52	40.46	-339.73	SLD 6	175.35	242.17	930.9	2.5	5.98	Si
-5.3	2X/2Y ø8/19.9	43.89	-337.03	SLD 1	174.98	242.17	930.52	2.5	5.52	40.46	-337.03	SLD 6	174.98	242.17	930.52	2.5	5.98	Si
-5	2X/2Y ø8/19.9	43.89	-334.33	SLD 1	174.61	242.17	930.14	2.5	5.52	40.46	-334.33	SLD 6	174.61	242.17	930.14	2.5	5.98	Si
-4.7	2X/2Y ø8/19.9	43.89	-331.63	SLD 1	174.24	242.17	929.76	2.5	5.52	40.46	-331.63	SLD 6	174.24	242.17	929.76	2.5	5.98	Si
-4.4	2X/2Y ø8/19.9	43.89	-328.93	SLD 1	173.88	242.17	929.38	2.5	5.52	40.46	-328.93	SLD 6	173.88	242.17	929.38	2.5	5.98	Si
-4.1	2X/2Y ø8/19.9	43.89	-326.23	SLD 1	173.51	242.17	929	2.5	5.52	40.46	-326.23	SLD 6	173.51	242.17	929	2.5	5.98	Si
-3.8	2X/2Y ø8/19.9	43.89	-323.53	SLD 1	173.14	242.17	928.62	2.5	5.52	40.46	-323.53	SLD 6	173.14	242.17	928.62	2.5	5.98	Si
-3.5	2X/2Y ø8/19.9	43.89	-320.83	SLD 1	172.77	242.17	928.24	2.5	5.52	40.46	-320.83	SLD 6	172.77	242.17	928.24	2.5	5.98	Si

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		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.2	2X/2Y ø8/19.9	43.89	-318.13	SLD 1	172.4	242.17	927.86	2.5	5.52	40.46	-318.13	SLD 6	172.4	242.17	927.86	2.5	5.98	Si
-2.9	2X/2Y ø8/19.9	43.89	-315.44	SLD 1	172.04	242.17	927.48	2.5	5.52	40.46	-315.44	SLD 6	172.04	242.17	927.48	2.5	5.98	Si
-2.6	2X/2Y ø8/19.9	43.89	-312.73	SLD 1	171.67	242.17	927.1	2.5	5.52	40.46	-312.73	SLD 6	171.67	242.17	927.1	2.5	5.98	Si
-2.3	2X/2Y ø8/19.9	43.89	-310.03	SLD 1	171.3	242.17	926.72	2.5	5.52	40.46	-310.03	SLD 6	171.3	242.17	926.72	2.5	5.98	Si
-2	2X/2Y ø8/19.9	43.89	-307.33	SLD 1	170.93	242.17	926.34	2.5	5.52	40.46	-307.33	SLD 6	170.93	242.17	926.34	2.5	5.98	Si
-1.7	2X/2Y ø8/19.9	43.89	-304.63	SLD 1	170.56	242.17	925.96	2.5	5.52	40.46	-304.63	SLD 6	170.56	242.17	925.96	2.5	5.98	Si
-1.4	2X/2Y ø8/19.9	43.89	-301.93	SLD 1	170.2	242.17	925.58	2.5	5.52	40.46	-301.93	SLD 6	170.2	242.17	925.58	2.5	5.98	Si
-1.1	2X/2Y ø8/19.9	43.89	-299.23	SLD 1	169.83	242.17	925.19	2.5	5.52	40.46	-299.23	SLD 6	169.83	242.17	925.19	2.5	5.98	Si
-1.01	2X/2Y ø8/19.9	43.89	-298.46	SLD 1	169.72	242.17	925.09	2.5	5.52	40.46	-298.46	SLD 6	169.72	242.17	925.09	2.5	5.98	Si
-0.8	2X/2Y ø8/19.9	-28.64	-296.53	SLD 1	169.46	242.17	924.81	2.5	8.46	-26.4	-296.53	SLD 6	169.46	242.17	924.81	2.5	9.17	Si
-0.5	2X/2Y ø8/19.9	-28.64	-293.83	SLD 1	169.09	242.17	924.43	2.5	8.46	-26.4	-293.83	SLD 6	169.09	242.17	924.43	2.5	9.17	Si
-0.2	2X/2Y ø8/19.9	-28.64	-291.13	SLD 1	168.73	242.17	924.05	2.5	8.46	-26.4	-291.13	SLD 6	168.73	242.17	924.05	2.5	9.17	Si
0.1	2X/2Y ø8/19.9	-28.64	-288.43	SLD 1	168.36	242.17	923.67	2.5	8.46	-26.4	-288.43	SLD 6	168.36	242.17	923.67	2.5	9.17	Si
0.4	2X/2Y ø8/19.9	-28.64	-285.73	SLD 1	167.99	242.17	923.29	2.5	8.46	-26.4	-285.73	SLD 6	167.99	242.17	923.29	2.5	9.17	Si
0.7	2X/2Y ø8/19.9	-28.64	-283.03	SLD 1	167.62	242.17	922.91	2.5	8.46	-26.4	-283.03	SLD 6	167.62	242.17	922.91	2.5	9.17	Si
1	2X/2Y ø8/19.9	-28.64	-280.33	SLD 1	167.25	242.17	922.53	2.5	8.46	-26.4	-280.33	SLD 6	167.25	242.17	922.53	2.5	9.17	Si
1.3	2X/2Y ø8/19.9	-28.64	-277.63	SLD 1	166.89	242.17	922.15	2.5	8.46	-26.4	-277.63	SLD 6	166.89	242.17	922.15	2.5	9.17	Si
1.6	2X/2Y ø8/19.9	-28.64	-274.93	SLD 1	166.52	242.17	921.77	2.5	8.46	-26.4	-274.93	SLD 6	166.52	242.17	921.77	2.5	9.17	Si
1.9	2X/2Y ø8/19.9	-28.64	-272.23	SLD 1	166.15	242.17	921.39	2.5	8.46	-26.4	-272.23	SLD 6	166.15	242.17	921.39	2.5	9.17	Si
2.2	2X/2Y ø8/19.9	-28.64	-269.53	SLD 1	165.78	242.17	921.01	2.5	8.46	-26.4	-269.53	SLD 6	165.78	242.17	921.01	2.5	9.17	Si
2.5	2X/2Y ø8/19.9	-28.64	-266.83	SLD 1	165.41	242.17	920.63	2.5	8.46	-26.4	-266.83	SLD 6	165.41	242.17	920.63	2.5	9.17	Si
2.8	2X/2Y ø8/19.9	-28.64	-264.13	SLD 1	165.05	242.17	920.25	2.5	8.46	-26.4	-264.13	SLD 6	165.05	242.17	920.25	2.5	9.17	Si
3.1	2X/2Y ø8/19.9	-28.64	-261.43	SLD 1	164.68	242.17	919.87	2.5	8.46	-26.4	-261.43	SLD 6	164.68	242.17	919.87	2.5	9.17	Si
3.4	2X/2Y ø8/19.9	-28.64	-258.75	SLD 1	164.31	242.17	919.49	2.5	8.46	-26.4	-258.75	SLD 6	164.31	242.17	919.49	2.5	9.17	Si
3.7	2X/2Y ø8/19.9	-28.64	-256.03	SLD 1	163.94	242.17	919.11	2.5	8.46	-26.4	-256.03	SLD 6	163.94	242.17	919.11	2.5	9.17	Si
4	2X/2Y ø8/19.9	-28.64	-253.33	SLD 1	163.58	242.17	918.73	2.5	8.46	-26.4	-253.33	SLD 6	163.58	242.17	918.73	2.5	9.17	Si
4.3	2X/2Y ø8/19.9	-28.64	-250.63	SLD 1	163.21	242.17	918.34	2.5	8.46	-26.4	-250.63	SLD 6	163.21	242.17	918.34	2.5	9.17	Si
4.6	2X/2Y ø8/19.9	-28.64	-247.93	SLD 1	162.84	242.17	917.96	2.5	8.46	-26.4	-247.93	SLD 6	162.84	242.17	917.96	2.5	9.17	Si
4.9	2X/2Y ø8/19.9	-28.64	-245.23	SLD 1	162.47	242.17	917.58	2.5	8.46	-26.4	-245.23	SLD 6	162.47	242.17	917.58	2.5	9.17	Si
5.2	2X/2Y ø8/19.9	-28.64	-242.53	SLD 1	162.1	242.17	917.2	2.5	8.46	-26.4	-242.53	SLD 6	162.1	242.17	917.2	2.5	9.17	Si
5.5	2X/2Y ø8/19.9	-28.64	-239.83	SLD 1	161.74	242.17	916.82	2.5	8.46	-26.4	-239.83	SLD 6	161.74	242.17	916.82	2.5	9.17	Si
5.8	2X/2Y ø8/19.9	-28.64	-237.13	SLD 1	161.37	242.17	916.44	2.5	8.46	-26.4	-237.13	SLD 6	161.37	242.17	916.44	2.5	9.17	Si
6.1	2X/2Y ø8/19.9	-28.64	-234.43	SLD 1	161	242.17	916.06	2.5	8.46	-26.4	-234.43	SLD 6	161	242.17	916.06	2.5	9.17	Si
6.4	2X/2Y ø8/19.9	-28.64	-231.78	SLD 1	160.64	242.17	915.69	2.5	8.46	-26.4	-231.78	SLD 6	160.64	242.17	915.69	2.5	9.17	Si

2.1.3.3.7 Verifica delle tensioni in combinazioni rara

Tensione limite del calcestruzzo 18426 kN/m²

Tensione limite dell'acciaio 360000 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-5.95	0	0	-447.52	SLE RA 2	-955	0	0	-447.52	SLE RA 2	-14326	Si
-5.9	0	0	-447.03	SLE RA 2	-954	0	0	-447.03	SLE RA 2	-14310	Si
-5.6	0	0	-444.37	SLE RA 2	-948	0	0	-444.37	SLE RA 2	-14225	Si
-5.3	0	0	-441.67	SLE RA 2	-943	0	0	-441.67	SLE RA 2	-14139	Si
-5	0	0	-438.97	SLE RA 2	-937	0	0	-438.97	SLE RA 2	-14052	Si
-4.7	0	0	-436.27	SLE RA 2	-931	0	0	-436.27	SLE RA 2	-13966	Si
-4.4	0	0	-433.57	SLE RA 2	-925	0	0	-433.57	SLE RA 2	-13880	Si
-4.1	0	0	-430.87	SLE RA 2	-920	0	0	-430.87	SLE RA 2	-13793	Si
-3.8	0	0	-428.17	SLE RA 2	-914	0	0	-428.17	SLE RA 2	-13707	Si
-3.5	0	0	-425.47	SLE RA 2	-908	0	0	-425.47	SLE RA 2	-13620	Si
-3.2	0	0	-422.77	SLE RA 2	-902	0	0	-422.77	SLE RA 2	-13534	Si
-2.9	0	0	-420.08	SLE RA 2	-883	0	0	-420.08	SLE RA 2	-13248	Si
-2.6	0	0	-417.37	SLE RA 2	-840	0	0	-417.37	SLE RA 2	-12601	Si
-2.3	0	0	-414.67	SLE RA 2	-800	0	0	-414.67	SLE RA 2	-12007	Si
-2	0	0	-411.97	SLE RA 2	-764	0	0	-411.97	SLE RA 2	-11459	Si
-1.7	0	0	-409.27	SLE RA 2	-744	0	0	-409.27	SLE RA 2	-11162	Si
-1.4	0	0	-406.57	SLE RA 2	-739	0	0	-406.57	SLE RA 2	-11088	Si
-1.1	0	0	-403.87	SLE RA 2	-734	0	0	-403.87	SLE RA 2	-11015	Si

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-1.01	0	0	-403.11	SLE RA 2	-733	0	0	-403.11	SLE RA 2	-10994	Si
-0.8	0	0	-401.17	SLE RA 2	-729	0	0	-401.17	SLE RA 2	-10941	Si
-0.5	0	0	-398.47	SLE RA 2	-724	0	0	-398.47	SLE RA 2	-10867	Si
-0.2	0	0	-395.77	SLE RA 2	-720	0	0	-395.77	SLE RA 2	-10794	Si
0.1	0	0	-393.07	SLE RA 2	-715	0	0	-393.07	SLE RA 2	-10720	Si
0.4	0	0	-390.37	SLE RA 2	-715	0	0	-390.37	SLE RA 2	-10718	Si
0.7	0	0	-387.67	SLE RA 2	-738	0	0	-387.67	SLE RA 2	-11074	Si
1	0	0	-384.97	SLE RA 2	-764	0	0	-384.97	SLE RA 2	-11459	Si
1.3	0	0	-382.27	SLE RA 2	-792	0	0	-382.27	SLE RA 2	-11879	Si
1.6	0	0	-379.57	SLE RA 2	-810	0	0	-379.57	SLE RA 2	-12151	Si
1.9	0	0	-376.87	SLE RA 2	-804	0	0	-376.87	SLE RA 2	-12065	Si
2.2	0	0	-374.17	SLE RA 2	-799	0	0	-374.17	SLE RA 2	-11978	Si
2.5	0	0	-371.47	SLE RA 2	-793	0	0	-371.47	SLE RA 2	-11892	Si
2.8	0	0	-368.77	SLE RA 2	-787	0	0	-368.77	SLE RA 2	-11805	Si
3.1	0	0	-366.07	SLE RA 2	-781	0	0	-366.07	SLE RA 2	-11719	Si
3.4	0	0	-363.39	SLE RA 2	-776	0	0	-363.39	SLE RA 2	-11633	Si
3.7	0	0	-360.67	SLE RA 2	-770	0	0	-360.67	SLE RA 2	-11546	Si
4	0	0	-357.97	SLE RA 2	-764	0	0	-357.97	SLE RA 2	-11460	Si
4.3	0	0	-355.27	SLE RA 2	-758	0	0	-355.27	SLE RA 2	-11373	Si
4.6	0	0	-352.57	SLE RA 2	-752	0	0	-352.57	SLE RA 2	-11287	Si
4.9	0	0	-349.87	SLE RA 2	-747	0	0	-349.87	SLE RA 2	-11200	Si
5.2	0	0	-347.17	SLE RA 2	-741	0	0	-347.17	SLE RA 2	-11114	Si
5.5	0	0	-344.47	SLE RA 2	-735	0	0	-344.47	SLE RA 2	-11027	Si
5.8	0	0	-341.77	SLE RA 2	-729	0	0	-341.77	SLE RA 2	-10941	Si
6.1	0	0	-339.07	SLE RA 2	-724	0	0	-339.07	SLE RA 2	-10854	Si
6.4	0	0	-336.42	SLE RA 3	-718	0	0	-336.42	SLE RA 3	-10769	Si

2.1.3.3.8 Verifica delle tensioni sul calcestruzzo in combinazioni quasi permanenti

Tensione limite del calcestruzzo 13820 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Verifica
-5.95	0	0	-342.88	SLE QP 1	-732	Si
-5.9	0	0	-342.39	SLE QP 1	-731	Si
-5.6	0	0	-339.73	SLE QP 1	-725	Si
-5.3	0	0	-337.03	SLE QP 1	-719	Si
-5	0	0	-334.33	SLE QP 1	-714	Si
-4.7	0	0	-331.63	SLE QP 1	-708	Si
-4.4	0	0	-328.93	SLE QP 1	-702	Si
-4.1	0	0	-326.23	SLE QP 1	-696	Si
-3.8	0	0	-323.53	SLE QP 1	-690	Si
-3.5	0	0	-320.83	SLE QP 1	-685	Si
-3.2	0	0	-318.13	SLE QP 1	-679	Si
-2.9	0	0	-315.44	SLE QP 1	-663	Si
-2.6	0	0	-312.73	SLE QP 1	-629	Si
-2.3	0	0	-310.03	SLE QP 1	-598	Si
-2	0	0	-307.33	SLE QP 1	-570	Si
-1.7	0	0	-304.63	SLE QP 1	-554	Si
-1.4	0	0	-301.93	SLE QP 1	-549	Si
-1.1	0	0	-299.23	SLE QP 1	-544	Si
-1.01	0	0	-298.46	SLE QP 1	-543	Si
-0.8	0	0	-296.53	SLE QP 1	-539	Si
-0.5	0	0	-293.83	SLE QP 1	-534	Si
-0.2	0	0	-291.13	SLE QP 1	-529	Si
0.1	0	0	-288.43	SLE QP 1	-524	Si
0.4	0	0	-285.73	SLE QP 1	-523	Si
0.7	0	0	-283.03	SLE QP 1	-539	Si
1	0	0	-280.33	SLE QP 1	-556	Si
1.3	0	0	-277.63	SLE QP 1	-575	Si
1.6	0	0	-274.93	SLE QP 1	-587	Si
1.9	0	0	-272.23	SLE QP 1	-581	Si
2.2	0	0	-269.53	SLE QP 1	-575	Si
2.5	0	0	-266.83	SLE QP 1	-569	Si
2.8	0	0	-264.13	SLE QP 1	-564	Si
3.1	0	0	-261.43	SLE QP 1	-558	Si
3.4	0	0	-258.75	SLE QP 1	-552	Si
3.7	0	0	-256.03	SLE QP 1	-546	Si
4	0	0	-253.33	SLE QP 1	-541	Si
4.3	0	0	-250.63	SLE QP 1	-535	Si
4.6	0	0	-247.93	SLE QP 1	-529	Si
4.9	0	0	-245.23	SLE QP 1	-523	Si
5.2	0	0	-242.53	SLE QP 1	-518	Si
5.5	0	0	-239.83	SLE QP 1	-512	Si
5.8	0	0	-237.13	SLE QP 1	-506	Si
6.1	0	0	-234.43	SLE QP 1	-500	Si
6.4	0	0	-231.78	SLE QP 2	-495	Si

2.1.3.3.9 Verifica di apertura delle fessure nella famiglia di combinazioni frequente

Fessurazione non presente

2.1.3.3.10 Verifica di apertura delle fessure nella famiglia di combinazioni quasi permanente

Fessurazione non presente

2.1.3.4 Verifiche nodi trave colonna

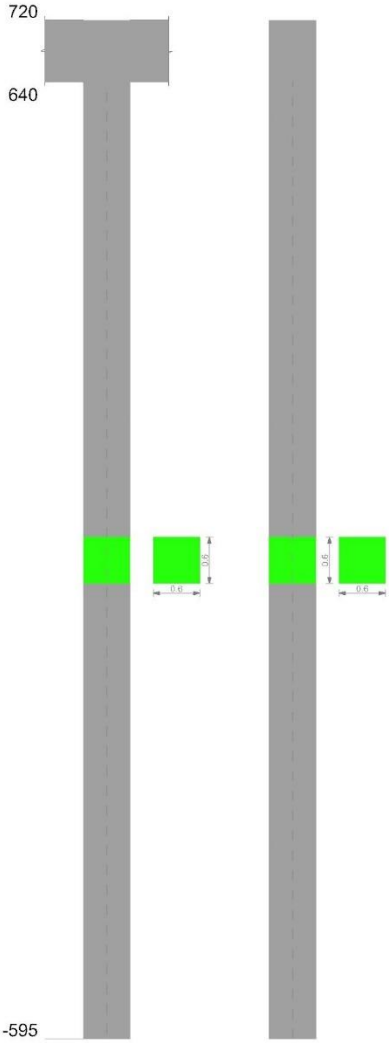
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

2.1.3.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

2.1.4 Pilastrata P27

Geometria



2.1.4.1 Dati della pilastrata

2.1.4.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.95	6.4	R 60x60	No	No	No	No		C30/37	B450C	

2.1.4.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.2	-0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.2	0	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.3	-0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	-0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.5	-0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.6	-0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C

2.1.4.2 Controlli geometrici NTC18

Nessuna anomalia

2.1.4.3 Verifiche delle sezioni

2.1.4.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	39.0209	39.0209	-612.09	394.0555	394.0555	SLU 17	10.099	Si
-5.9	0.007238	4	0	1,2	38.9799	38.9799	-611.45	394.0555	394.0555	SLU 17	10.109	Si
-5.6	0.007238	4	0	1,2	38.7598	38.7598	-608	394.0555	394.0555	SLU 17	10.167	Si
-5.3	0.007238	4	0	1,2	38.5361	38.5361	-604.49	394.0555	394.0555	SLU 17	10.226	Si
-5	0.007238	4	0	1,2	38.3123	38.3123	-600.98	394.0555	394.0555	SLU 17	10.285	Si
-4.7	0.007238	2	0	2	38.0885	38.0885	-597.47	394.0555	394.0555	SLU 17	10.346	Si
-4.4	0.007238	2	0	2	37.8648	37.8648	-593.96	394.0555	394.0555	SLU 17	10.407	Si
-4.1	0.007238	2	0	2	37.641	37.641	-590.45	394.0555	394.0555	SLU 17	10.469	Si
-3.8	0.007238	2	0	2	37.4173	37.4173	-586.94	394.0555	394.0555	SLU 17	10.531	Si
-3.5	0.007238	2	0	2	37.1935	37.1935	-583.43	394.0555	394.0555	SLU 17	10.595	Si
-3.2	0.007238	2	0	2	36.9697	36.9697	-579.92	394.0555	394.0555	SLU 17	10.659	Si
-2.9	0.007709	3.5	0	2,6	36.7466	36.7466	-576.42	402.1727	402.1727	SLU 17	10.944	Si
-2.6	0.009123	3.5	0	2,6	36.5222	36.5222	-572.9	426.4811	426.4811	SLU 17	11.677	Si
-2.3	0.010537	3.5	0	2,6	36.2984	36.2984	-569.39	450.6886	450.6886	SLU 17	12.416	Si
-2	0.011951	3.5	0	2,6	36.0747	36.0747	-565.88	474.8868	474.8868	SLU 17	13.164	Si
-1.7	0.012667	3.5	0	2,6	35.8509	35.8509	-562.37	487.1442	487.1442	SLU 17	13.588	Si
-1.4	0.012667	3.5	0	2,6	35.6272	35.6272	-558.86	487.1442	487.1442	SLU 17	13.673	Si
-1.1	0.012667	3.5	0	2,6	35.4034	35.4034	-555.35	487.1442	487.1442	SLU 17	13.76	Si
-1.01	0.012667	3.5	0	2,6	35.3396	35.3396	-554.35	487.1442	487.1442	SLU 17	13.785	Si
-0.8	0.012667	3.5	0	2,6	35.1796	35.1796	-551.84	487.1442	487.1442	SLU 17	13.847	Si
-0.5	0.012667	3.5	0	2,6	34.9559	34.9559	-548.33	487.1442	487.1442	SLU 17	13.936	Si
-0.2	0.012667	3.5	0	2,6	34.7321	34.7321	-544.82	487.1442	487.1442	SLU 17	14.026	Si
0.1	0.012667	3.5	0	2,6	34.5083	34.5083	-541.31	487.1442	487.1442	SLU 17	14.117	Si
0.4	0.012422	5.5	0	2,3,4,6	34.2846	34.2846	-537.8	482.9511	482.9511	SLU 17	14.087	Si
0.7	0.011008	5.5	0	2,3,4,6	34.0608	34.0608	-534.29	458.7556	458.7556	SLU 17	13.469	Si
1	0.009594	5.5	0	2,3,4,6	33.8371	33.8371	-530.78	434.5514	434.5514	SLU 17	12.842	Si
1.3	0.008181	5.5	0	2,3,4,6	33.6133	33.6133	-527.27	410.2861	410.2861	SLU 17	12.206	Si
1.6	0.007238	2	0	3,4	33.3895	33.3895	-523.76	394.0555	394.0555	SLU 17	11.802	Si
1.9	0.007238	2	0	3,4	33.1658	33.1658	-520.25	394.0555	394.0555	SLU 17	11.881	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
2.2	0.007238	2	0	3,4	32.942	32.942	-516.74	394.0555	394.0555	SLU 17	11.962	Si
2.5	0.007238	2	0	3,4	32.7182	32.7182	-513.23	394.0555	394.0555	SLU 17	12.044	Si
2.8	0.007238	2	0	3,4	32.4945	32.4945	-509.72	394.0555	394.0555	SLU 17	12.127	Si
3.1	0.007238	2	0	3,4	32.2707	32.2707	-506.21	394.0555	394.0555	SLU 17	12.211	Si
3.4	0.007238	2	0	3,4	32.0482	32.0482	-502.72	394.0555	394.0555	SLU 17	12.296	Si
3.7	0.007238	2	0	3,4	31.8232	31.8232	-499.19	394.0555	394.0555	SLU 17	12.383	Si
4	0.007238	2	0	3,4	31.5994	31.5994	-495.68	394.0555	394.0555	SLU 17	12.47	Si
4.3	0.007238	2	0	3,4	31.3757	31.3757	-492.17	394.0555	394.0555	SLU 17	12.559	Si
4.6	0.007238	2	0	3,4	31.1519	31.1519	-488.66	394.0555	394.0555	SLU 17	12.649	Si
4.9	0.007238	2	0	3,4	30.9281	30.9281	-485.15	394.0555	394.0555	SLU 17	12.741	Si
5.2	0.007238	2	0	3,4	30.7044	30.7044	-481.64	394.0555	394.0555	SLU 17	12.834	Si
5.5	0.007238	2	0	3,4	30.4806	30.4806	-478.13	394.0555	394.0555	SLU 17	12.928	Si
5.8	0.007238	2	0	3,4	30.2569	30.2569	-474.62	394.0555	394.0555	SLU 17	13.024	Si
6.1	0.007238	2	0	3,4	30.0331	30.0331	-471.11	394.0555	394.0555	SLU 17	13.121	Si
6.4	0.007238	2	0	3,4	29.8131	29.8131	-467.66	394.0555	394.0555	SLU 17	13.218	Si

2.1.4.3.2 Verifica a pressoflessione in SLV (domini sostanzialmente elastici)

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-5.95	0.007238	4	0	1,2	0	0	-346.42	-2.02	1.92	0	0	SLV 5	22.643				Si
-5.9	0.007238	4	0	1,2	7.8431	1.825	-345.93	-2.02	1.92	175.8153	40.9093	SLV 6	22.417				Si
-5.6	0.007238	4	0	1,2	49.9107	11.6134	-343.27	-2.02	1.92	595.2352	138.5013	SLV 6	11.926				Si
-5.3	0.007238	4	0	1,2	92.6913	21.5677	-340.57	-2.02	1.92	664.4626	154.6094	SLV 6	7.169				Si
-5	0.007238	4	0	1,2	135.4719	31.5221	-337.87	-2.02	1.92	683.5228	159.0444	SLV 6	5.045				Si
-4.7	0.007238	2	0	2	178.2526	41.4764	-335.17	-2.02	1.92	659.5021	153.4552	SLV 6	3.7				Si
-4.4	0.007238	2	0	2	221.0332	51.4307	-332.47	-2.02	1.92	614.6294	143.014	SLV 6	2.781				Si
-4.1	0.007238	2	0	2	263.8138	61.3851	-329.77	-2.02	1.92	586.1714	136.3923	SLV 6	2.222				Si
-3.8	0.007238	2	0	2	306.5944	71.3394	-327.07	-2.02	1.92	566.4839	131.8114	SLV 6	1.848				Si
-3.5	0.007238	2	0	2	349.375	81.2938	-324.37	-2.02	1.92	552.3336	128.5188	SLV 6	1.581				Si
-3.2	0.007238	2	0	2	392.1556	91.2481	-321.67	-2.02	1.92	541.5233	126.0035	SLV 6	1.381				Si
-2.9	0.007709	3.5	0	2,6	434.8213	101.1757	-318.98	-2.02	1.92	559.8915	130.2774	SLV 6	1.288				Si
-2.6	0.009123	3.5	0	2,6	477.7169	111.1568	-316.27	-2.02	1.92	631.1201	146.8512	SLV 6	1.321				Si
-2.3	0.010537	3.5	0	2,6	520.4975	121.1111	-313.57	-2.02	1.92	701.228	163.1641	SLV 6	1.347				Si
-2	0.011951	3.5	0	2,6	563.2781	131.0654	-310.87	-2.02	1.92	770.4587	179.2729	SLV 6	1.368				Si
-1.7	0.012667	3.5	0	2,6	606.0587	141.0198	-308.17	-2.02	1.92	802.8341	186.8061	SLV 6	1.325				Si
-1.4	0.012667	3.5	0	2,6	648.8393	150.9741	-305.47	-2.02	1.92	798.1266	185.7108	SLV 6	1.23				Si
-1.1	0.012667	3.5	0	2,6	691.6199	160.9285	-302.77	-2.02	1.92	794.0466	184.7614	SLV 6	1.148				Si
-1.01	0.012667	3.5	0	2,6	703.8101	163.7649	-302	-2.02	1.92	792.9817	184.5137	SLV 6	1.127				Si
-0.8	0.012667	3.5	0	2,6	693.1515	161.2875	-300.07	-2.02	1.92	793.4474	184.625	SLV 6	1.145				Si
-0.5	0.012667	3.5	0	2,6	665.2193	154.7927	-297.37	-2.02	1.92	795.1801	185.0338	SLV 6	1.195				Si
-0.2	0.012667	3.5	0	2,6	637.2872	148.2979	-294.67	-2.02	1.92	797.0733	185.4804	SLV 6	1.251				Si
0.1	0.012667	3.5	0	2,6	609.355	141.8031	-291.97	-2.02	1.92	799.1505	185.9704	SLV 6	1.311				Si
0.4	0.012422	5.5	0	2,3,4,6	581.4229	135.3083	-289.27	-2.02	1.92	788.5867	183.5193	SLV 6	1.356				Si
0.7	0.011008	5.5	0	2,3,4,6	553.4907	128.8135	-286.57	-2.02	1.92	716.6427	166.7837	SLV 6	1.295				Si
1	0.009594	5.5	0	2,3,4,6	525.5585	122.3187	-283.87	-2.02	1.92	643.7405	149.8244	SLV 6	1.225				Si
1.3	0.008181	5.5	0	2,3,4,6	497.6264	115.8239	-281.17	-2.02	1.92	569.3824	132.5253	SLV 6	1.144				Si
1.6	0.007238	2	0	3,4	469.6942	109.3291	-278.47	-2.02	1.92	519.603	120.9462	SLV 6	1.106				Si
1.9	0.007238	2	0	3,4	441.7621	102.8343	-275.77	-2.02	1.92	522.5201	121.6333	SLV 6	1.183				Si
2.2	0.007238	2	0	3,4	413.8299	96.3395	-273.07	-2.02	1.92	525.871	122.4226	SLV 6	1.271				Si
2.5	0.007238	2	0	3,4	385.8978	89.8447	-270.37	-2.02	1.92	529.7596	123.3386	SLV 6	1.373				Si
2.8	0.007238	2	0	3,4	357.9656	83.3499	-267.67	-2.02	1.92	534.3057	124.4095	SLV 6	1.493				Si
3.1	0.007238	2	0	3,4	330.0335	76.8551	-264.97	-2.02	1.92	539.7212	125.6852	SLV 6	1.635				Si

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.4	0.007238	2	0	3,4	302.2515	70.3952	-262.29	-2.02	1.92	546.2431	127.2216	SLV 6	1.807				Si
3.7	0.007238	2	0	3,4	274.1692	63.8655	-259.57	-2.02	1.92	554.0742	129.0672	SLV 6	2.021				Si
4	0.007238	2	0	3,4	246.237	57.3707	-256.87	-2.02	1.92	563.9127	131.3859	SLV 6	2.29				Si
4.3	0.007238	2	0	3,4	218.3049	50.8759	-254.17	-2.02	1.92	576.7116	134.4025	SLV 6	2.642				Si
4.6	0.007238	2	0	3,4	190.3727	44.3811	-251.47	-2.02	1.92	593.8771	138.4491	SLV 6	3.12				Si
4.9	0.007238	2	0	3,4	162.4406	37.8863	-248.77	-2.02	1.92	617.5539	144.0332	SLV 6	3.802				Si
5.2	0.007238	2	0	3,4	134.5085	31.3915	-246.07	-2.02	1.92	652.9664	152.389	SLV 6	4.854				Si
5.5	0.007238	2	0	3,4	106.5764	24.8967	-243.37	-2.02	1.92	686.2558	160.3125	SLV 6	6.439				Si
5.8	0.007238	2	0	3,4	78.6443	18.4019	-240.67	-2.02	1.92	673.9321	157.6929	SLV 6	8.569				Si
6.1	0.007238	2	0	3,4	50.7124	11.9071	-237.97	-2.02	1.92	645.2495	151.5027	SLV 6	12.724				Si
6.4	0.007238	2	0	3,4	23.2282	5.5206	-235.32	-2.02	1.92	507.1891	120.5424	SLV 6	21.835				Si

2.1.4.3.3 Verifica a pressoflessione in SLD

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	0	0	-346.42	0	0	SLD 5	22.643	Si
-5.9	0.007238	4	0	1,2	3.1124	0.7241	-345.93	70.5764	16.4204	SLD 6	22.676	Si
-5.6	0.007238	4	0	1,2	19.8062	4.6081	-343.27	364.3478	84.7695	SLD 6	18.396	Si
-5.3	0.007238	4	0	1,2	36.7829	8.5579	-340.57	530.9896	123.5406	SLD 6	14.436	Si
-5	0.007238	4	0	1,2	53.7596	12.5078	-337.87	610.405	142.0174	SLD 6	11.354	Si
-4.7	0.007238	2	0	2	70.7363	16.4576	-335.17	645.1425	150.0995	SLD 6	9.12	Si
-4.4	0.007238	2	0	2	87.713	20.4074	-332.47	662.5107	154.1404	SLD 6	7.553	Si
-4.1	0.007238	2	0	2	104.6898	24.3572	-329.77	673.0842	156.6004	SLD 6	6.429	Si
-3.8	0.007238	2	0	2	121.6665	28.307	-327.07	680.4923	158.324	SLD 6	5.593	Si
-3.5	0.007238	2	0	2	138.6432	32.2569	-324.37	685.8759	159.5765	SLD 6	4.947	Si
-3.2	0.007238	2	0	2	155.6199	36.2067	-321.67	682.7547	158.8504	SLD 6	4.387	Si
-2.9	0.007709	3.5	0	2,6	172.551	40.1459	-318.98	685.6249	159.5182	SLD 6	3.973	Si
-2.6	0.009123	3.5	0	2,6	189.5734	44.1063	-316.27	750.4505	174.6005	SLD 6	3.959	Si
-2.3	0.010537	3.5	0	2,6	206.5501	48.0561	-313.57	815.2881	189.6857	SLD 6	3.947	Si
-2	0.011951	3.5	0	2,6	223.5268	52.006	-310.87	879.5625	204.6399	SLD 6	3.935	Si
-1.7	0.012667	3.5	0	2,6	240.5035	55.9558	-308.17	905.5531	210.6869	SLD 6	3.765	Si
-1.4	0.012667	3.5	0	2,6	257.4802	59.9056	-305.47	891.9834	207.5297	SLD 6	3.464	Si
-1.1	0.012667	3.5	0	2,6	274.4569	63.8554	-302.77	880.4236	204.8402	SLD 6	3.208	Si
-1.01	0.012667	3.5	0	2,6	279.2944	64.9809	-302	877.4368	204.1453	SLD 6	3.142	Si
-0.8	0.012667	3.5	0	2,6	275.0647	63.9979	-300.07	878.7446	204.4529	SLD 6	3.195	Si
-0.5	0.012667	3.5	0	2,6	263.9803	61.4208	-297.37	883.6259	205.5948	SLD 6	3.347	Si
-0.2	0.012667	3.5	0	2,6	252.8959	58.8437	-294.67	888.9976	206.8514	SLD 6	3.515	Si
0.1	0.012667	3.5	0	2,6	241.8116	56.2666	-291.97	894.9374	208.241	SLD 6	3.701	Si
0.4	0.012422	5.5	0	2,3,4,6	230.7272	53.6895	-289.27	887.6538	206.5543	SLD 6	3.847	Si
0.7	0.011008	5.5	0	2,3,4,6	219.6428	51.1124	-286.57	814.0123	189.4263	SLD 6	3.706	Si
1	0.009594	5.5	0	2,3,4,6	208.5585	48.5353	-283.87	739.4812	172.0906	SLD 6	3.546	Si
1.3	0.008181	5.5	0	2,3,4,6	197.4741	45.9582	-281.17	662.9241	154.2826	SLD 6	3.357	Si
1.6	0.007238	2	0	3,4	186.3897	43.3811	-278.47	613.4338	142.7731	SLD 6	3.291	Si
1.9	0.007238	2	0	3,4	175.3053	40.804	-275.77	622.6597	144.9301	SLD 6	3.552	Si
2.2	0.007238	2	0	3,4	164.2209	38.2269	-273.07	633.313	147.4209	SLD 6	3.856	Si
2.5	0.007238	2	0	3,4	153.1366	35.6498	-270.37	645.6513	150.306	SLD 6	4.216	Si
2.8	0.007238	2	0	3,4	142.0522	33.0727	-267.67	659.9234	153.644	SLD 6	4.646	Si
3.1	0.007238	2	0	3,4	130.9678	30.4956	-264.97	677.1755	157.6791	SLD 6	5.171	Si
3.4	0.007238	2	0	3,4	119.943	27.9324	-262.29	686.7887	159.9397	SLD 6	5.726	Si
3.7	0.007238	2	0	3,4	108.7991	25.3414	-259.57	685.0447	159.5604	SLD 6	6.296	Si
4	0.007238	2	0	3,4	97.7147	22.7643	-256.87	681.3004	158.7208	SLD 6	6.972	Si
4.3	0.007238	2	0	3,4	86.6303	20.1872	-254.17	676.385	157.6163	SLD 6	7.808	Si
4.6	0.007238	2	0	3,4	75.546	17.6102	-251.47	669.9858	156.1771	SLD 6	8.869	Si
4.9	0.007238	2	0	3,4	64.4616	15.0331	-248.77	661.1193	154.1793	SLD 6	10.256	Si
5.2	0.007238	2	0	3,4	53.3772	12.456	-246.07	647.3781	151.0703	SLD 6	12.128	Si
5.5	0.007238	2	0	3,4	42.2929	9.8789	-243.37	622.9744	145.5158	SLD 6	14.73	Si
5.8	0.007238	2	0	3,4	31.2085	7.3018	-240.67	572.7175	133.997	SLD 6	18.351	Si
6.1	0.007238	2	0	3,4	20.1243	4.7247	-237.97	466.1984	109.4517	SLD 6	23.166	Si
6.4	0.007238	2	0	3,4	9.2176	2.1905	-235.32	274.0838	65.1348	SLD 6	29.735	Si

2.1.4.3.4 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	0	-343.17	SLU 1	175.82	242.17	931.39	2.5	1000	0	-343.17	SLU 1	175.82	242.17	931.39	2.5	1000	Si
-5.9	2X/2Y ø8/19.9	0	-342.68	SLU 1	175.75	242.17	931.32	2.5	1000	0	-342.68	SLU 1	175.75	242.17	931.32	2.5	1000	Si
-5.6	2X/2Y ø8/19.9	0	-340.02	SLU 1	175.39	242.17	930.94	2.5	1000	0	-340.02	SLU 1	175.39	242.17	930.94	2.5	1000	Si
-5.3	2X/2Y ø8/19.9	0	-337.32	SLU 1	175.02	242.17	930.56	2.5	1000	0	-337.32	SLU 1	175.02	242.17	930.56	2.5	1000	Si
-5	2X/2Y ø8/19.9	0	-334.62	SLU 1	174.65	242.17	930.18	2.5	1000	0	-334.62	SLU 1	174.65	242.17	930.18	2.5	1000	Si
-4.7	2X/2Y ø8/19.9	0	-331.92	SLU 1	174.28	242.17	929.8	2.5	1000	0	-331.92	SLU 1	174.28	242.17	929.8	2.5	1000	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-4.4	2X/2Y ø8/19.9	0	-329.22	SLU 1	173.91	242.17	929.42	2.5	1000	0	-329.22	SLU 1	173.91	242.17	929.42	2.5	1000	Si
-4.1	2X/2Y ø8/19.9	0	-326.52	SLU 1	173.55	242.17	929.04	2.5	1000	0	-326.52	SLU 1	173.55	242.17	929.04	2.5	1000	Si
-3.8	2X/2Y ø8/19.9	0	-323.82	SLU 1	173.18	242.17	928.66	2.5	1000	0	-323.82	SLU 1	173.18	242.17	928.66	2.5	1000	Si
-3.5	2X/2Y ø8/19.9	0	-321.12	SLU 1	172.81	242.17	928.28	2.5	1000	0	-321.12	SLU 1	172.81	242.17	928.28	2.5	1000	Si
-3.2	2X/2Y ø8/19.9	0	-318.42	SLU 1	172.44	242.17	927.9	2.5	1000	0	-318.42	SLU 1	172.44	242.17	927.9	2.5	1000	Si
-2.9	2X/2Y ø8/19.9	0	-315.73	SLU 1	172.08	242.17	927.52	2.5	1000	0	-315.73	SLU 1	172.08	242.17	927.52	2.5	1000	Si
-2.6	2X/2Y ø8/19.9	0	-313.02	SLU 1	171.71	242.17	927.14	2.5	1000	0	-313.02	SLU 1	171.71	242.17	927.14	2.5	1000	Si
-2.3	2X/2Y ø8/19.9	0	-310.32	SLU 1	171.34	242.17	926.76	2.5	1000	0	-310.32	SLU 1	171.34	242.17	926.76	2.5	1000	Si
-2	2X/2Y ø8/19.9	0	-307.62	SLU 1	170.97	242.17	926.38	2.5	1000	0	-307.62	SLU 1	170.97	242.17	926.38	2.5	1000	Si
-1.7	2X/2Y ø8/19.9	0	-304.92	SLU 1	170.6	242.17	926	2.5	1000	0	-304.92	SLU 1	170.6	242.17	926	2.5	1000	Si
-1.4	2X/2Y ø8/19.9	0	-302.22	SLU 1	170.24	242.17	925.62	2.5	1000	0	-302.22	SLU 1	170.24	242.17	925.62	2.5	1000	Si
-1.1	2X/2Y ø8/19.9	0	-299.52	SLU 1	169.87	242.17	925.24	2.5	1000	0	-299.52	SLU 1	169.87	242.17	925.24	2.5	1000	Si
-1.01	2X/2Y ø8/19.9	0	-298.75	SLU 1	169.76	242.17	925.13	2.5	1000	0	-298.75	SLU 1	169.76	242.17	925.13	2.5	1000	Si
-0.8	2X/2Y ø8/19.9	0	-296.82	SLU 1	169.5	242.17	924.85	2.5	1000	0	-296.82	SLU 1	169.5	242.17	924.85	2.5	1000	Si
-0.5	2X/2Y ø8/19.9	0	-294.12	SLU 1	169.13	242.17	924.47	2.5	1000	0	-294.12	SLU 1	169.13	242.17	924.47	2.5	1000	Si
-0.2	2X/2Y ø8/19.9	0	-291.42	SLU 1	168.76	242.17	924.09	2.5	1000	0	-291.42	SLU 1	168.76	242.17	924.09	2.5	1000	Si
0.1	2X/2Y ø8/19.9	0	-288.72	SLU 1	168.4	242.17	923.71	2.5	1000	0	-288.72	SLU 1	168.4	242.17	923.71	2.5	1000	Si
0.4	2X/2Y ø8/19.9	0	-286.02	SLU 1	168.03	242.17	923.33	2.5	1000	0	-286.02	SLU 1	168.03	242.17	923.33	2.5	1000	Si
0.7	2X/2Y ø8/19.9	0	-283.32	SLU 1	167.66	242.17	922.95	2.5	1000	0	-283.32	SLU 1	167.66	242.17	922.95	2.5	1000	Si
1	2X/2Y ø8/19.9	0	-280.62	SLU 1	167.29	242.17	922.57	2.5	1000	0	-280.62	SLU 1	167.29	242.17	922.57	2.5	1000	Si
1.3	2X/2Y ø8/19.9	0	-277.92	SLU 1	166.93	242.17	922.19	2.5	1000	0	-277.92	SLU 1	166.93	242.17	922.19	2.5	1000	Si
1.6	2X/2Y ø8/19.9	0	-275.22	SLU 1	166.56	242.17	921.81	2.5	1000	0	-275.22	SLU 1	166.56	242.17	921.81	2.5	1000	Si
1.9	2X/2Y ø8/19.9	0	-272.52	SLU 1	166.19	242.17	921.43	2.5	1000	0	-272.52	SLU 1	166.19	242.17	921.43	2.5	1000	Si
2.2	2X/2Y ø8/19.9	0	-269.82	SLU 1	165.82	242.17	921.05	2.5	1000	0	-269.82	SLU 1	165.82	242.17	921.05	2.5	1000	Si
2.5	2X/2Y ø8/19.9	0	-267.12	SLU 1	165.45	242.17	920.67	2.5	1000	0	-267.12	SLU 1	165.45	242.17	920.67	2.5	1000	Si
2.8	2X/2Y ø8/19.9	0	-264.42	SLU 1	165.09	242.17	920.29	2.5	1000	0	-264.42	SLU 1	165.09	242.17	920.29	2.5	1000	Si
3.1	2X/2Y ø8/19.9	0	-261.72	SLU 1	164.72	242.17	919.91	2.5	1000	0	-261.72	SLU 1	164.72	242.17	919.91	2.5	1000	Si
3.4	2X/2Y ø8/19.9	0	-259.04	SLU 1	164.35	242.17	919.53	2.5	1000	0	-259.04	SLU 1	164.35	242.17	919.53	2.5	1000	Si
3.7	2X/2Y ø8/19.9	0	-256.32	SLU 1	163.98	242.17	919.15	2.5	1000	0	-256.32	SLU 1	163.98	242.17	919.15	2.5	1000	Si
4	2X/2Y ø8/19.9	0	-253.62	SLU 1	163.61	242.17	918.77	2.5	1000	0	-253.62	SLU 1	163.61	242.17	918.77	2.5	1000	Si
4.3	2X/2Y ø8/19.9	0	-250.92	SLU 1	163.25	242.17	918.39	2.5	1000	0	-250.92	SLU 1	163.25	242.17	918.39	2.5	1000	Si
4.6	2X/2Y ø8/19.9	0	-248.22	SLU 1	162.88	242.17	918	2.5	1000	0	-248.22	SLU 1	162.88	242.17	918	2.5	1000	Si
4.9	2X/2Y ø8/19.9	0	-245.52	SLU 1	162.51	242.17	917.62	2.5	1000	0	-245.52	SLU 1	162.51	242.17	917.62	2.5	1000	Si
5.2	2X/2Y ø8/19.9	0	-242.82	SLU 1	162.14	242.17	917.24	2.5	1000	0	-242.82	SLU 1	162.14	242.17	917.24	2.5	1000	Si
5.5	2X/2Y ø8/19.9	0	-240.12	SLU 1	161.77	242.17	916.86	2.5	1000	0	-240.12	SLU 1	161.77	242.17	916.86	2.5	1000	Si
5.8	2X/2Y ø8/19.9	0	-237.42	SLU 1	161.41	242.17	916.48	2.5	1000	0	-237.42	SLU 1	161.41	242.17	916.48	2.5	1000	Si
6.1	2X/2Y ø8/19.9	0	-234.72	SLU 1	161.04	242.17	916.1	2.5	1000	0	-234.72	SLU 1	161.04	242.17	916.1	2.5	1000	Si
6.4	2X/2Y ø8/19.9	0	-232.07	SLU 1	160.68	242.17	915.73	2.5	1000	0	-232.07	SLU 1	160.68	242.17	915.73	2.5	1000	Si

2.1.4.3.5 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	110.6	-346.42	SLV 1	176.26	242.17	931.85	2.5	2.19	142.6	-346.42	SLV 6	176.26	242.17	931.85	2.5	1.7	Si
-5.9	2X/2Y ø8/19.9	110.6	-345.93	SLV 1	176.19	242.17	931.78	2.5	2.19	142.6	-345.93	SLV 6	176.19	242.17	931.78	2.5	1.7	Si
-5.6	2X/2Y ø8/19.9	110.6	-343.27	SLV 1	175.83	242.17	931.4	2.5	2.19	142.6	-343.27	SLV 6	175.83	242.17	931.4	2.5	1.7	Si
-5.3	2X/2Y ø8/19.9	110.6	-340.57	SLV 1	175.46	242.17	931.02	2.5	2.19	142.6	-340.57	SLV 6	175.46	242.17	931.02	2.5	1.7	Si
-5	2X/2Y ø8/19.9	110.6	-337.87	SLV 1	175.09	242.17	930.64	2.5	2.19	142.6	-337.87	SLV 6	175.09	242.17	930.64	2.5	1.7	Si
-4.7	2X/2Y ø8/19.9	110.6	-335.17	SLV 1	174.73	242.17	930.26	2.5	2.19	142.6	-335.17	SLV 6	174.73	242.17	930.26	2.5	1.7	Si
-4.4	2X/2Y ø8/19.9	110.6	-332.47	SLV 1	174.36	242.17	929.88	2.5	2.19	142.6	-332.47	SLV 6	174.36	242.17	929.88	2.5	1.7	Si
-4.1	2X/2Y ø8/19.9	110.6	-329.77	SLV 1	173.99	242.17	929.5	2.5	2.19	142.6	-329.77	SLV 6	173.99	242.17	929.5	2.5	1.7	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.8	2X/2Y ø8/19.9	110.6	-327.07	SLV 1	173.62	242.17	929.12	2.5	2.19	142.6	-327.07	SLV 6	173.62	242.17	929.12	2.5	1.7	Si
-3.5	2X/2Y ø8/19.9	110.6	-324.37	SLV 1	173.25	242.17	928.74	2.5	2.19	142.6	-324.37	SLV 6	173.25	242.17	928.74	2.5	1.7	Si
-3.2	2X/2Y ø8/19.9	110.6	-321.67	SLV 1	172.89	242.17	928.36	2.5	2.19	142.6	-321.67	SLV 6	172.89	242.17	928.36	2.5	1.7	Si
-2.9	2X/2Y ø8/19.9	110.6	-318.98	SLV 1	172.52	242.17	927.98	2.5	2.19	142.6	-318.98	SLV 6	172.52	242.17	927.98	2.5	1.7	Si
-2.6	2X/2Y ø8/19.9	110.6	-316.27	SLV 1	172.15	242.17	927.6	2.5	2.19	142.6	-316.27	SLV 6	172.15	242.17	927.6	2.5	1.7	Si
-2.3	2X/2Y ø8/19.9	110.6	-313.57	SLV 1	171.78	242.17	927.22	2.5	2.19	142.6	-313.57	SLV 6	171.78	242.17	927.22	2.5	1.7	Si
-2	2X/2Y ø8/19.9	110.6	-310.87	SLV 1	171.41	242.17	926.84	2.5	2.19	142.6	-310.87	SLV 6	171.41	242.17	926.84	2.5	1.7	Si
-1.7	2X/2Y ø8/19.9	110.6	-308.17	SLV 1	171.05	242.17	926.45	2.5	2.19	142.6	-308.17	SLV 6	171.05	242.17	926.45	2.5	1.7	Si
-1.4	2X/2Y ø8/19.9	110.6	-305.47	SLV 1	170.68	242.17	926.07	2.5	2.19	142.6	-305.47	SLV 6	170.68	242.17	926.07	2.5	1.7	Si
-1.1	2X/2Y ø8/19.9	110.6	-302.77	SLV 1	170.31	242.17	925.69	2.5	2.19	142.6	-302.77	SLV 6	170.31	242.17	925.69	2.5	1.7	Si
-1.01	2X/2Y ø8/19.9	110.6	-302	SLV 1	170.21	242.17	925.59	2.5	2.19	142.6	-302	SLV 6	170.21	242.17	925.59	2.5	1.7	Si
-0.8	2X/2Y ø8/19.9	-72.16	-300.07	SLV 1	169.94	242.17	925.31	2.5	3.36	-93.11	-300.07	SLV 6	169.94	242.17	925.31	2.5	2.6	Si
-0.5	2X/2Y ø8/19.9	-72.16	-297.37	SLV 1	169.58	242.17	924.93	2.5	3.36	-93.11	-297.37	SLV 6	169.58	242.17	924.93	2.5	2.6	Si
-0.2	2X/2Y ø8/19.9	-72.16	-294.67	SLV 1	169.21	242.17	924.55	2.5	3.36	-93.11	-294.67	SLV 6	169.21	242.17	924.55	2.5	2.6	Si
0.1	2X/2Y ø8/19.9	-72.16	-291.97	SLV 1	168.84	242.17	924.17	2.5	3.36	-93.11	-291.97	SLV 6	168.84	242.17	924.17	2.5	2.6	Si
0.4	2X/2Y ø8/19.9	-72.16	-289.27	SLV 1	168.47	242.17	923.79	2.5	3.36	-93.11	-289.27	SLV 6	168.47	242.17	923.79	2.5	2.6	Si
0.7	2X/2Y ø8/19.9	-72.16	-286.57	SLV 1	168.1	242.17	923.41	2.5	3.36	-93.11	-286.57	SLV 6	168.1	242.17	923.41	2.5	2.6	Si
1	2X/2Y ø8/19.9	-72.16	-283.87	SLV 1	167.74	242.17	923.03	2.5	3.36	-93.11	-283.87	SLV 6	167.74	242.17	923.03	2.5	2.6	Si
1.3	2X/2Y ø8/19.9	-72.16	-281.17	SLV 1	167.37	242.17	922.65	2.5	3.36	-93.11	-281.17	SLV 6	167.37	242.17	922.65	2.5	2.6	Si
1.6	2X/2Y ø8/19.9	-72.16	-278.47	SLV 1	167	242.17	922.27	2.5	3.36	-93.11	-278.47	SLV 6	167	242.17	922.27	2.5	2.6	Si
1.9	2X/2Y ø8/19.9	-72.16	-275.77	SLV 1	166.63	242.17	921.89	2.5	3.36	-93.11	-275.77	SLV 6	166.63	242.17	921.89	2.5	2.6	Si
2.2	2X/2Y ø8/19.9	-72.16	-273.07	SLV 1	166.26	242.17	921.51	2.5	3.36	-93.11	-273.07	SLV 6	166.26	242.17	921.51	2.5	2.6	Si
2.5	2X/2Y ø8/19.9	-72.16	-270.37	SLV 1	165.9	242.17	921.13	2.5	3.36	-93.11	-270.37	SLV 6	165.9	242.17	921.13	2.5	2.6	Si
2.8	2X/2Y ø8/19.9	-72.16	-267.67	SLV 1	165.53	242.17	920.75	2.5	3.36	-93.11	-267.67	SLV 6	165.53	242.17	920.75	2.5	2.6	Si
3.1	2X/2Y ø8/19.9	-72.16	-264.97	SLV 1	165.16	242.17	920.37	2.5	3.36	-93.11	-264.97	SLV 6	165.16	242.17	920.37	2.5	2.6	Si
3.4	2X/2Y ø8/19.9	-72.16	-262.29	SLV 1	164.79	242.17	919.99	2.5	3.36	-93.11	-262.29	SLV 6	164.79	242.17	919.99	2.5	2.6	Si
3.7	2X/2Y ø8/19.9	-72.16	-259.57	SLV 1	164.43	242.17	919.6	2.5	3.36	-93.11	-259.57	SLV 6	164.43	242.17	919.6	2.5	2.6	Si
4	2X/2Y ø8/19.9	-72.16	-256.87	SLV 1	164.06	242.17	919.22	2.5	3.36	-93.11	-256.87	SLV 6	164.06	242.17	919.22	2.5	2.6	Si
4.3	2X/2Y ø8/19.9	-72.16	-254.17	SLV 1	163.69	242.17	918.84	2.5	3.36	-93.11	-254.17	SLV 6	163.69	242.17	918.84	2.5	2.6	Si
4.6	2X/2Y ø8/19.9	-72.16	-251.47	SLV 1	163.32	242.17	918.46	2.5	3.36	-93.11	-251.47	SLV 6	163.32	242.17	918.46	2.5	2.6	Si
4.9	2X/2Y ø8/19.9	-72.16	-248.77	SLV 1	162.95	242.17	918.08	2.5	3.36	-93.11	-248.77	SLV 6	162.95	242.17	918.08	2.5	2.6	Si
5.2	2X/2Y ø8/19.9	-72.16	-246.07	SLV 1	162.59	242.17	917.7	2.5	3.36	-93.11	-246.07	SLV 6	162.59	242.17	917.7	2.5	2.6	Si
5.5	2X/2Y ø8/19.9	-72.16	-243.37	SLV 1	162.22	242.17	917.32	2.5	3.36	-93.11	-243.37	SLV 6	162.22	242.17	917.32	2.5	2.6	Si
5.8	2X/2Y ø8/19.9	-72.16	-240.67	SLV 1	161.85	242.17	916.94	2.5	3.36	-93.11	-240.67	SLV 6	161.85	242.17	916.94	2.5	2.6	Si
6.1	2X/2Y ø8/19.9	-72.16	-237.97	SLV 1	161.48	242.17	916.56	2.5	3.36	-93.11	-237.97	SLV 6	161.48	242.17	916.56	2.5	2.6	Si
6.4	2X/2Y ø8/19.9	-72.16	-235.32	SLV 1	161.12	242.17	916.19	2.5	3.36	-93.11	-235.32	SLV 6	161.12	242.17	916.19	2.5	2.6	Si

2.1.4.3.6 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	43.88	-346.42	SLD 1	176.26	242.17	931.85	2.5	5.52	56.59	-346.42	SLD 6	176.26	242.17	931.85	2.5	4.28	Si
-5.9	2X/2Y ø8/19.9	43.88	-345.93	SLD 1	176.19	242.17	931.78	2.5	5.52	56.59	-345.93	SLD 6	176.19	242.17	931.78	2.5	4.28	Si
-5.6	2X/2Y ø8/19.9	43.88	-343.27	SLD 1	175.83	242.17	931.4	2.5	5.52	56.59	-343.27	SLD 6	175.83	242.17	931.4	2.5	4.28	Si
-5.3	2X/2Y ø8/19.9	43.88	-340.57	SLD 1	175.46	242.17	931.02	2.5	5.52	56.59	-340.57	SLD 6	175.46	242.17	931.02	2.5	4.28	Si
-5	2X/2Y ø8/19.9	43.88	-337.87	SLD 1	175.09	242.17	930.64	2.5	5.52	56.59	-337.87	SLD 6	175.09	242.17	930.64	2.5	4.28	Si
-4.7	2X/2Y ø8/19.9	43.88	-335.17	SLD 1	174.73	242.17	930.26	2.5	5.52	56.59	-335.17	SLD 6	174.73	242.17	930.26	2.5	4.28	Si
-4.4	2X/2Y ø8/19.9	43.88	-332.47	SLD 1	174.36	242.17	929.88	2.5	5.52	56.59	-332.47	SLD 6	174.36	242.17	929.88	2.5	4.28	Si
-4.1	2X/2Y ø8/19.9	43.88	-329.77	SLD 1	173.99	242.17	929.5	2.5	5.52	56.59	-329.77	SLD 6	173.99	242.17	929.5	2.5	4.28	Si
-3.8	2X/2Y ø8/19.9	43.88	-327.07	SLD 1	173.62	242.17	929.12	2.5	5.52	56.59	-327.07	SLD 6	173.62	242.17	929.12	2.5	4.28	Si
-3.5	2X/2Y ø8/19.9	43.88	-324.37	SLD 1	173.25	242.17	928.74	2.5	5.52	56.59	-324.37	SLD 6	173.25	242.17	928.74	2.5	4.28	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.2	2X/2Y ø8/19.9	43.88	-321.67	SLD 1	172.89	242.17	928.36	2.5	5.52	56.59	-321.67	SLD 6	172.89	242.17	928.36	2.5	4.28	Si
-2.9	2X/2Y ø8/19.9	43.88	-318.98	SLD 1	172.52	242.17	927.98	2.5	5.52	56.59	-318.98	SLD 6	172.52	242.17	927.98	2.5	4.28	Si
-2.6	2X/2Y ø8/19.9	43.88	-316.27	SLD 1	172.15	242.17	927.6	2.5	5.52	56.59	-316.27	SLD 6	172.15	242.17	927.6	2.5	4.28	Si
-2.3	2X/2Y ø8/19.9	43.88	-313.57	SLD 1	171.78	242.17	927.22	2.5	5.52	56.59	-313.57	SLD 6	171.78	242.17	927.22	2.5	4.28	Si
-2	2X/2Y ø8/19.9	43.88	-310.87	SLD 1	171.41	242.17	926.84	2.5	5.52	56.59	-310.87	SLD 6	171.41	242.17	926.84	2.5	4.28	Si
-1.7	2X/2Y ø8/19.9	43.88	-308.17	SLD 1	171.05	242.17	926.45	2.5	5.52	56.59	-308.17	SLD 6	171.05	242.17	926.45	2.5	4.28	Si
-1.4	2X/2Y ø8/19.9	43.88	-305.47	SLD 1	170.68	242.17	926.07	2.5	5.52	56.59	-305.47	SLD 6	170.68	242.17	926.07	2.5	4.28	Si
-1.1	2X/2Y ø8/19.9	43.88	-302.77	SLD 1	170.31	242.17	925.69	2.5	5.52	56.59	-302.77	SLD 6	170.31	242.17	925.69	2.5	4.28	Si
-1.01	2X/2Y ø8/19.9	43.88	-302	SLD 1	170.21	242.17	925.59	2.5	5.52	56.59	-302	SLD 6	170.21	242.17	925.59	2.5	4.28	Si
-0.8	2X/2Y ø8/19.9	-28.63	-300.07	SLD 1	169.94	242.17	925.31	2.5	8.46	-36.95	-300.07	SLD 6	169.94	242.17	925.31	2.5	6.55	Si
-0.5	2X/2Y ø8/19.9	-28.63	-297.37	SLD 1	169.58	242.17	924.93	2.5	8.46	-36.95	-297.37	SLD 6	169.58	242.17	924.93	2.5	6.55	Si
-0.2	2X/2Y ø8/19.9	-28.63	-294.67	SLD 1	169.21	242.17	924.55	2.5	8.46	-36.95	-294.67	SLD 6	169.21	242.17	924.55	2.5	6.55	Si
0.1	2X/2Y ø8/19.9	-28.63	-291.97	SLD 1	168.84	242.17	924.17	2.5	8.46	-36.95	-291.97	SLD 6	168.84	242.17	924.17	2.5	6.55	Si
0.4	2X/2Y ø8/19.9	-28.63	-289.27	SLD 1	168.47	242.17	923.79	2.5	8.46	-36.95	-289.27	SLD 6	168.47	242.17	923.79	2.5	6.55	Si
0.7	2X/2Y ø8/19.9	-28.63	-286.57	SLD 1	168.1	242.17	923.41	2.5	8.46	-36.95	-286.57	SLD 6	168.1	242.17	923.41	2.5	6.55	Si
1	2X/2Y ø8/19.9	-28.63	-283.87	SLD 1	167.74	242.17	923.03	2.5	8.46	-36.95	-283.87	SLD 6	167.74	242.17	923.03	2.5	6.55	Si
1.3	2X/2Y ø8/19.9	-28.63	-281.17	SLD 1	167.37	242.17	922.65	2.5	8.46	-36.95	-281.17	SLD 6	167.37	242.17	922.65	2.5	6.55	Si
1.6	2X/2Y ø8/19.9	-28.63	-278.47	SLD 1	167	242.17	922.27	2.5	8.46	-36.95	-278.47	SLD 6	167	242.17	922.27	2.5	6.55	Si
1.9	2X/2Y ø8/19.9	-28.63	-275.77	SLD 1	166.63	242.17	921.89	2.5	8.46	-36.95	-275.77	SLD 6	166.63	242.17	921.89	2.5	6.55	Si
2.2	2X/2Y ø8/19.9	-28.63	-273.07	SLD 1	166.26	242.17	921.51	2.5	8.46	-36.95	-273.07	SLD 6	166.26	242.17	921.51	2.5	6.55	Si
2.5	2X/2Y ø8/19.9	-28.63	-270.37	SLD 1	165.9	242.17	921.13	2.5	8.46	-36.95	-270.37	SLD 6	165.9	242.17	921.13	2.5	6.55	Si
2.8	2X/2Y ø8/19.9	-28.63	-267.67	SLD 1	165.53	242.17	920.75	2.5	8.46	-36.95	-267.67	SLD 6	165.53	242.17	920.75	2.5	6.55	Si
3.1	2X/2Y ø8/19.9	-28.63	-264.97	SLD 1	165.16	242.17	920.37	2.5	8.46	-36.95	-264.97	SLD 6	165.16	242.17	920.37	2.5	6.55	Si
3.4	2X/2Y ø8/19.9	-28.63	-262.29	SLD 1	164.79	242.17	919.99	2.5	8.46	-36.95	-262.29	SLD 6	164.79	242.17	919.99	2.5	6.55	Si
3.7	2X/2Y ø8/19.9	-28.63	-259.57	SLD 1	164.43	242.17	919.6	2.5	8.46	-36.95	-259.57	SLD 6	164.43	242.17	919.6	2.5	6.55	Si
4	2X/2Y ø8/19.9	-28.63	-256.87	SLD 1	164.06	242.17	919.22	2.5	8.46	-36.95	-256.87	SLD 6	164.06	242.17	919.22	2.5	6.55	Si
4.3	2X/2Y ø8/19.9	-28.63	-254.17	SLD 1	163.69	242.17	918.84	2.5	8.46	-36.95	-254.17	SLD 6	163.69	242.17	918.84	2.5	6.55	Si
4.6	2X/2Y ø8/19.9	-28.63	-251.47	SLD 1	163.32	242.17	918.46	2.5	8.46	-36.95	-251.47	SLD 6	163.32	242.17	918.46	2.5	6.55	Si
4.9	2X/2Y ø8/19.9	-28.63	-248.77	SLD 1	162.95	242.17	918.08	2.5	8.46	-36.95	-248.77	SLD 6	162.95	242.17	918.08	2.5	6.55	Si
5.2	2X/2Y ø8/19.9	-28.63	-246.07	SLD 1	162.59	242.17	917.7	2.5	8.46	-36.95	-246.07	SLD 6	162.59	242.17	917.7	2.5	6.55	Si
5.5	2X/2Y ø8/19.9	-28.63	-243.37	SLD 1	162.22	242.17	917.32	2.5	8.46	-36.95	-243.37	SLD 6	162.22	242.17	917.32	2.5	6.55	Si
5.8	2X/2Y ø8/19.9	-28.63	-240.67	SLD 1	161.85	242.17	916.94	2.5	8.46	-36.95	-240.67	SLD 6	161.85	242.17	916.94	2.5	6.55	Si
6.1	2X/2Y ø8/19.9	-28.63	-237.97	SLD 1	161.48	242.17	916.56	2.5	8.46	-36.95	-237.97	SLD 6	161.48	242.17	916.56	2.5	6.55	Si
6.4	2X/2Y ø8/19.9	-28.63	-235.32	SLD 1	161.12	242.17	916.19	2.5	8.46	-36.95	-235.32	SLD 6	161.12	242.17	916.19	2.5	6.55	Si

2.1.4.3.7 Verifica delle tensioni in combinazioni rara

Tensione limite del calcestruzzo 18426 kN/m²

Tensione limite dell'acciaio 360000 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-5.95	0	0	-452.08	SLE RA 2	-965	0	0	-452.08	SLE RA 2	-14472	Si
-5.9	0	0	-451.59	SLE RA 2	-964	0	0	-451.59	SLE RA 2	-14456	Si
-5.6	0	0	-448.93	SLE RA 2	-958	0	0	-448.93	SLE RA 2	-14371	Si
-5.3	0	0	-446.23	SLE RA 2	-952	0	0	-446.23	SLE RA 2	-14285	Si
-5	0	0	-443.53	SLE RA 2	-947	0	0	-443.53	SLE RA 2	-14198	Si
-4.7	0	0	-440.83	SLE RA 2	-941	0	0	-440.83	SLE RA 2	-14112	Si
-4.4	0	0	-438.13	SLE RA 2	-935	0	0	-438.13	SLE RA 2	-14026	Si
-4.1	0	0	-435.43	SLE RA 2	-929	0	0	-435.43	SLE RA 2	-13939	Si
-3.8	0	0	-432.73	SLE RA 2	-924	0	0	-432.73	SLE RA 2	-13853	Si
-3.5	0	0	-430.03	SLE RA 2	-918	0	0	-430.03	SLE RA 2	-13766	Si
-3.2	0	0	-427.33	SLE RA 2	-912	0	0	-427.33	SLE RA 2	-13680	Si
-2.9	0	0	-424.64	SLE RA 2	-893	0	0	-424.64	SLE RA 2	-13392	Si
-2.6	0	0	-421.93	SLE RA 2	-849	0	0	-421.93	SLE RA 2	-12738	Si
-2.3	0	0	-419.23	SLE RA 2	-809	0	0	-419.23	SLE RA 2	-12139	Si
-2	0	0	-416.53	SLE RA 2	-772	0	0	-416.53	SLE RA 2	-11586	Si
-1.7	0	0	-413.83	SLE RA 2	-752	0	0	-413.83	SLE RA 2	-11286	Si
-1.4	0	0	-411.13	SLE RA 2	-748	0	0	-411.13	SLE RA 2	-11213	Si
-1.1	0	0	-408.43	SLE RA 2	-743	0	0	-408.43	SLE RA 2	-11139	Si

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-1.01	0	0	-407.66	SLE RA 2	-741	0	0	-407.66	SLE RA 2	-11118	Si
-0.8	0	0	-405.73	SLE RA 2	-738	0	0	-405.73	SLE RA 2	-11065	Si
-0.5	0	0	-403.03	SLE RA 2	-733	0	0	-403.03	SLE RA 2	-10992	Si
-0.2	0	0	-400.33	SLE RA 2	-728	0	0	-400.33	SLE RA 2	-10918	Si
0.1	0	0	-397.63	SLE RA 2	-723	0	0	-397.63	SLE RA 2	-10844	Si
0.4	0	0	-394.93	SLE RA 2	-723	0	0	-394.93	SLE RA 2	-10843	Si
0.7	0	0	-392.23	SLE RA 2	-747	0	0	-392.23	SLE RA 2	-11204	Si
1	0	0	-389.53	SLE RA 2	-773	0	0	-389.53	SLE RA 2	-11595	Si
1.3	0	0	-386.83	SLE RA 2	-801	0	0	-386.83	SLE RA 2	-12021	Si
1.6	0	0	-384.13	SLE RA 2	-820	0	0	-384.13	SLE RA 2	-12297	Si
1.9	0	0	-381.43	SLE RA 2	-814	0	0	-381.43	SLE RA 2	-12210	Si
2.2	0	0	-378.73	SLE RA 2	-808	0	0	-378.73	SLE RA 2	-12124	Si
2.5	0	0	-376.03	SLE RA 2	-803	0	0	-376.03	SLE RA 2	-12038	Si
2.8	0	0	-373.33	SLE RA 2	-797	0	0	-373.33	SLE RA 2	-11951	Si
3.1	0	0	-370.63	SLE RA 2	-791	0	0	-370.63	SLE RA 2	-11865	Si
3.4	0	0	-367.95	SLE RA 2	-785	0	0	-367.95	SLE RA 2	-11779	Si
3.7	0	0	-365.23	SLE RA 2	-779	0	0	-365.23	SLE RA 2	-11692	Si
4	0	0	-362.53	SLE RA 2	-774	0	0	-362.53	SLE RA 2	-11605	Si
4.3	0	0	-359.83	SLE RA 2	-768	0	0	-359.83	SLE RA 2	-11519	Si
4.6	0	0	-357.13	SLE RA 2	-762	0	0	-357.13	SLE RA 2	-11433	Si
4.9	0	0	-354.43	SLE RA 2	-756	0	0	-354.43	SLE RA 2	-11346	Si
5.2	0	0	-351.73	SLE RA 2	-751	0	0	-351.73	SLE RA 2	-11260	Si
5.5	0	0	-349.03	SLE RA 2	-745	0	0	-349.03	SLE RA 2	-11173	Si
5.8	0	0	-346.33	SLE RA 2	-739	0	0	-346.33	SLE RA 2	-11087	Si
6.1	0	0	-343.63	SLE RA 2	-733	0	0	-343.63	SLE RA 2	-11000	Si
6.4	0	0	-340.98	SLE RA 2	-728	0	0	-340.98	SLE RA 2	-10915	Si

2.1.4.3.8 Verifica delle tensioni sul calcestruzzo in combinazioni quasi permanenti

Tensione limite del calcestruzzo 13820 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Verifica
-5.95	0	0	-346.42	SLE QP 1	-739	Si
-5.9	0	0	-345.93	SLE QP 1	-738	Si
-5.6	0	0	-343.27	SLE QP 1	-733	Si
-5.3	0	0	-340.57	SLE QP 1	-727	Si
-5	0	0	-337.87	SLE QP 1	-721	Si
-4.7	0	0	-335.17	SLE QP 1	-715	Si
-4.4	0	0	-332.47	SLE QP 1	-710	Si
-4.1	0	0	-329.77	SLE QP 1	-704	Si
-3.8	0	0	-327.07	SLE QP 1	-698	Si
-3.5	0	0	-324.37	SLE QP 1	-692	Si
-3.2	0	0	-321.67	SLE QP 1	-686	Si
-2.9	0	0	-318.98	SLE QP 1	-671	Si
-2.6	0	0	-316.27	SLE QP 1	-637	Si
-2.3	0	0	-313.57	SLE QP 1	-605	Si
-2	0	0	-310.87	SLE QP 1	-576	Si
-1.7	0	0	-308.17	SLE QP 1	-560	Si
-1.4	0	0	-305.47	SLE QP 1	-555	Si
-1.1	0	0	-302.77	SLE QP 1	-550	Si
-1.01	0	0	-302	SLE QP 1	-549	Si
-0.8	0	0	-300.07	SLE QP 1	-546	Si
-0.5	0	0	-297.37	SLE QP 1	-541	Si
-0.2	0	0	-294.67	SLE QP 1	-536	Si
0.1	0	0	-291.97	SLE QP 1	-531	Si
0.4	0	0	-289.27	SLE QP 1	-529	Si
0.7	0	0	-286.57	SLE QP 1	-546	Si
1	0	0	-283.87	SLE QP 1	-563	Si
1.3	0	0	-281.17	SLE QP 1	-582	Si
1.6	0	0	-278.47	SLE QP 1	-594	Si
1.9	0	0	-275.77	SLE QP 1	-589	Si
2.2	0	0	-273.07	SLE QP 1	-583	Si
2.5	0	0	-270.37	SLE QP 1	-577	Si
2.8	0	0	-267.67	SLE QP 1	-571	Si
3.1	0	0	-264.97	SLE QP 1	-565	Si
3.4	0	0	-262.29	SLE QP 1	-560	Si
3.7	0	0	-259.57	SLE QP 1	-554	Si
4	0	0	-256.87	SLE QP 1	-548	Si
4.3	0	0	-254.17	SLE QP 1	-542	Si
4.6	0	0	-251.47	SLE QP 1	-537	Si
4.9	0	0	-248.77	SLE QP 1	-531	Si
5.2	0	0	-246.07	SLE QP 1	-525	Si
5.5	0	0	-243.37	SLE QP 1	-519	Si
5.8	0	0	-240.67	SLE QP 1	-514	Si
6.1	0	0	-237.97	SLE QP 1	-508	Si
6.4	0	0	-235.32	SLE QP 1	-502	Si

2.1.4.3.9 Verifica di apertura delle fessure nella famiglia di combinazioni frequente

Fessurazione non presente

2.1.4.3.10 Verifica di apertura delle fessure nella famiglia di combinazioni quasi permanente

Fessurazione non presente

2.1.4.4 Verifiche nodi trave colonna

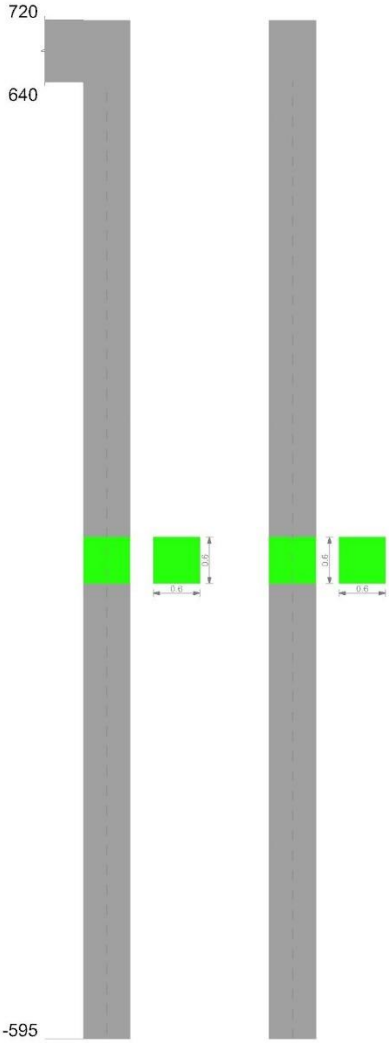
Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

2.1.4.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

2.1.5 Pilastrata P30

Geometria



2.1.5.1 Dati della pilastrata

2.1.5.1.1 Campate costituenti la pilastrata

Q.inf.	Q.sup.	Sezione	Esistente	Secondaria	Dissipativa	Interna a parete	Sovraresistenza	Materiale CLS	Materiale Acciaio	FC
-5.95	6.4	R 60x60	No	No	No	No		C30/37	B450C	

2.1.5.1.2 Disposizione delle armature longitudinali

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.1	-0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	-0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.2438	0.2438	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	-0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.1285	0.245	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	-0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	-0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0	0.024	0.0004524	-5.96	-5.95		B450C
p.1	0.245	0.1285	0.024	0.0004524	-5.96	-5.95		B450C
p.2	-0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	-0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.2438	0.2438	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	-0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C

Posizione	X	Y	Diametro	Area	Q.inf.	Q.sup.	Sezione	Materiale
p.2	0	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.1285	0.245	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	-0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	-0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.2	0.245	0.1285	0.024	0.0004524	-5.95	0.35	R 60x60	B450C
p.3	-0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	-0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.3	-0.2438	0.2438	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	-0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.1285	0.245	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	-0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	-0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.4	0.245	0.1285	0.024	0.0004524	0.35	6.65	R 60x60	B450C
p.5	-0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	-0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.2452	0.2452	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	-0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.1285	0.247	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	-0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	-0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.5	0.247	0.1285	0.02	0.0003142	6.65	6.688	R 60x60	B450C
p.6	-0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	-0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.1285	0.245	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	-0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	-0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0	0.024	0.0004524	-3	1.5	R 60x60	B450C
p.6	0.245	0.1285	0.024	0.0004524	-3	1.5	R 60x60	B450C

2.1.5.2 Controlli geometrici NTC18

Nessuna anomalia

2.1.5.3 Verifiche delle sezioni

2.1.5.3.1 Verifica a pressoflessione in SLU

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	0	0	-518.06	0	0	SLU 17	15.141	Si
-5.9	0.007238	4	0	1,2	32.9854	32.9854	-517.42	394.0555	394.0555	SLU 17	11.946	Si
-5.6	0.007238	4	0	1,2	32.7654	32.7654	-513.97	394.0555	394.0555	SLU 17	12.027	Si
-5.3	0.007238	4	0	1,2	32.5416	32.5416	-510.46	394.0555	394.0555	SLU 17	12.109	Si
-5	0.007238	4	0	1,2	32.3178	32.3178	-506.95	394.0555	394.0555	SLU 17	12.193	Si
-4.7	0.007238	2	0	2	32.0941	32.0941	-503.44	394.0555	394.0555	SLU 17	12.278	Si
-4.4	0.007238	2	0	2	31.8703	31.8703	-499.93	394.0555	394.0555	SLU 17	12.364	Si
-4.1	0.007238	2	0	2	31.6465	31.6465	-496.42	394.0555	394.0555	SLU 17	12.452	Si
-3.8	0.007238	2	0	2	31.4228	31.4228	-492.91	394.0555	394.0555	SLU 17	12.54	Si
-3.5	0.007238	2	0	2	31.199	31.199	-489.4	394.0555	394.0555	SLU 17	12.63	Si
-3.2	0.007238	2	0	2	30.9753	30.9753	-485.89	394.0555	394.0555	SLU 17	12.722	Si
-2.9	0.007709	3.5	0	2,6	30.7521	30.7521	-482.39	402.1727	402.1727	SLU 17	13.078	Si
-2.6	0.009123	3.5	0	2,6	30.5277	30.5277	-478.87	426.4811	426.4811	SLU 17	13.97	Si
-2.3	0.010537	3.5	0	2,6	30.304	30.304	-475.36	450.6886	450.6886	SLU 17	14.872	Si
-2	0.011951	3.5	0	2,6	30.0802	30.0802	-471.85	474.8868	474.8868	SLU 17	15.787	Si
-1.7	0.012667	3.5	0	2,6	29.8564	29.8564	-468.34	487.1442	487.1442	SLU 17	16.316	Si
-1.4	0.012667	3.5	0	2,6	29.6327	29.6327	-464.83	487.1442	487.1442	SLU 17	16.439	Si
-1.1	0.012667	3.5	0	2,6	29.4089	29.4089	-461.32	487.1442	487.1442	SLU 17	16.565	Si
-1.01	0.012667	3.5	0	2,6	29.3452	29.3452	-460.32	487.1442	487.1442	SLU 17	16.6	Si
-0.8	0.012667	3.5	0	2,6	29.1852	29.1852	-457.81	487.1442	487.1442	SLU 17	16.692	Si
-0.5	0.012667	3.5	0	2,6	28.9614	28.9614	-454.3	487.1442	487.1442	SLU 17	16.82	Si
-0.2	0.012667	3.5	0	2,6	28.7376	28.7376	-450.79	487.1442	487.1442	SLU 17	16.951	Si
0.1	0.012667	3.5	0	2,6	28.5139	28.5139	-447.28	487.1442	487.1442	SLU 17	17.084	Si
0.4	0.012422	5.5	0	2,3,4,6	28.2901	28.2901	-443.77	482.9511	482.9511	SLU 17	17.071	Si
0.7	0.011008	5.5	0	2,3,4,6	28.0663	28.0663	-440.26	458.7556	458.7556	SLU 17	16.345	Si
1	0.009594	5.5	0	2,3,4,6	27.8426	27.8426	-436.75	434.5514	434.5514	SLU 17	15.607	Si
1.3	0.008181	5.5	0	2,3,4,6	27.6188	27.6188	-433.24	410.2861	410.2861	SLU 17	14.855	Si
1.6	0.007238	2	0	3,4	27.3951	27.3951	-429.73	394.0555	394.0555	SLU 17	14.384	Si
1.9	0.007238	2	0	3,4	27.1713	27.1713	-426.22	394.0555	394.0555	SLU 17	14.503	Si

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
2.2	0.007238	2	0	3,4	26.9475	26.9475	-422.71	394.0555	394.0555	SLU 17	14.623	Si
2.5	0.007238	2	0	3,4	26.7238	26.7238	-419.2	394.0555	394.0555	SLU 17	14.746	Si
2.8	0.007238	2	0	3,4	26.5	26.5	-415.69	394.0555	394.0555	SLU 17	14.87	Si
3.1	0.007238	2	0	3,4	26.2762	26.2762	-412.18	394.0555	394.0555	SLU 17	14.997	Si
3.4	0.007238	2	0	3,4	26.0537	26.0537	-408.69	394.0555	394.0555	SLU 17	15.125	Si
3.7	0.007238	2	0	3,4	25.8287	25.8287	-405.16	394.0555	394.0555	SLU 17	15.256	Si
4	0.007238	2	0	3,4	25.605	25.605	-401.65	394.0555	394.0555	SLU 17	15.39	Si
4.3	0.007238	2	0	3,4	25.3812	25.3812	-398.14	394.0555	394.0555	SLU 17	15.525	Si
4.6	0.007238	2	0	3,4	25.1574	25.1574	-394.63	394.0555	394.0555	SLU 17	15.664	Si
4.9	0.007238	2	0	3,4	24.9337	24.9337	-391.12	394.0555	394.0555	SLU 17	15.804	Si
5.2	0.007238	2	0	3,4	24.7099	24.7099	-387.61	394.0555	394.0555	SLU 17	15.947	Si
5.5	0.007238	2	0	3,4	24.4861	24.4861	-384.1	394.0555	394.0555	SLU 17	16.093	Si
5.8	0.007238	2	0	3,4	24.2624	24.2624	-380.59	394.0555	394.0555	SLU 17	16.241	Si
6.1	0.007238	2	0	3,4	24.0386	24.0386	-377.08	394.0555	394.0555	SLU 17	16.393	Si
6.4	0.007238	2	0	3,4	23.8186	23.8186	-373.62	394.0555	394.0555	SLU 17	16.544	Si

2.1.5.3.2 Verifica a pressoflessione in SLV (domini sostanzialmente elastici)

E' attiva l'opzione fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
-5.95	0.007238	4	0	1,2	0	0	-332.46	-2.02	1.92	0	0	SLV 7	23.595				Si
-5.9	0.007238	4	0	1,2	-4.2649	1.8238	-331.96	-2.02	1.92	-100.7802	43.0968	SLV 7	23.63				Si
-5.6	0.007238	4	0	1,2	8.2507	-38.69	-329.31	-2.02	1.92	118.4175	-555.2988	SLV 13	14.353				Si
-5.3	0.007238	4	0	1,2	15.3226	-71.8529	-326.61	-2.02	1.92	139.9605	-656.3206	SLV 13	9.134				Si
-5	0.007238	4	0	1,2	22.3946	-105.0158	-323.91	-2.02	1.92	145.6704	-683.0965	SLV 13	6.505				Si
-4.7	0.007238	2	0	2	29.4666	-138.1787	-321.21	-2.02	1.92	148.4091	-695.9391	SLV 13	5.037				Si
-4.4	0.007238	2	0	2	36.5386	-171.3415	-318.51	-2.02	1.92	142.1554	-666.6133	SLV 13	3.891				Si
-4.1	0.007238	2	0	2	43.6106	-204.5044	-315.81	-2.02	1.92	133.9397	-628.0875	SLV 13	3.071				Si
-3.8	0.007238	2	0	2	50.6826	-237.6673	-313.11	-2.02	1.92	128.3422	-601.8388	SLV 13	2.532				Si
-3.5	0.007238	2	0	2	57.7546	-270.8301	-310.41	-2.02	1.92	124.2433	-582.6179	SLV 13	2.151				Si
-3.2	0.007238	2	0	2	64.8266	-303.993	-307.71	-2.02	1.92	121.1792	-568.2491	SLV 13	1.869				Si
-2.9	0.007709	3.5	0	2,6	71.8795	-337.0668	-305.01	-2.02	1.92	124.7123	-584.8172	SLV 13	1.735				Si
-2.6	0.009123	3.5	0	2,6	78.9705	-370.3188	-302.31	-2.02	1.92	139.9972	-656.4931	SLV 13	1.773				Si
-2.3	0.010537	3.5	0	2,6	86.0425	-403.4817	-299.61	-2.02	1.92	155.0699	-727.1739	SLV 13	1.802				Si
-2	0.011951	3.5	0	2,6	93.1145	-436.6445	-296.91	-2.02	1.92	169.9222	-796.8209	SLV 13	1.825				Si
-1.7	0.012667	3.5	0	2,6	100.1865	-469.8074	-294.21	-2.02	1.92	176.6859	-828.5383	SLV 13	1.764				Si
-1.4	0.012667	3.5	0	2,6	107.2585	-502.9703	-291.51	-2.02	1.92	175.4137	-822.5728	SLV 13	1.635				Si
-1.1	0.012667	3.5	0	2,6	114.3305	-536.1332	-288.81	-2.02	1.92	174.3139	-817.4154	SLV 13	1.525				Si
-1.01	0.012667	3.5	0	2,6	116.3456	-545.5828	-288.04	-2.02	1.92	174.0273	-816.0714	SLV 13	1.496				Si
-0.8	0.012667	3.5	0	2,6	114.5869	-537.3292	-286.11	-2.02	1.92	174.1495	-816.6346	SLV 13	1.52				Si
-0.5	0.012667	3.5	0	2,6	109.975	-515.6918	-283.41	-2.02	1.92	174.6103	-818.7776	SLV 13	1.588				Si
-0.2	0.012667	3.5	0	2,6	105.3632	-494.0544	-280.71	-2.02	1.92	175.1142	-821.1212	SLV 13	1.662				Si
0.1	0.012667	3.5	0	2,6	100.7513	-472.4169	-278.01	-2.02	1.92	175.6676	-823.6948	SLV 13	1.744				Si
0.4	0.012422	5.5	0	2,3,4,6	96.1395	-450.7795	-275.31	-2.02	1.92	173.484	-813.4334	SLV 13	1.805				Si
0.7	0.011008	5.5	0	2,3,4,6	91.5276	-429.1421	-272.61	-2.02	1.92	157.8542	-740.1253	SLV 13	1.725				Si
1	0.009594	5.5	0	2,3,4,6	86.9157	-407.5047	-269.91	-2.02	1.92	141.9551	-665.5568	SLV 13	1.633				Si
1.3	0.008181	5.5	0	2,3,4,6	82.3039	-385.8673	-267.21	-2.02	1.92	125.7648	-589.626	SLV 13	1.528				Si
1.6	0.007238	2	0	3,4	77.692	-364.2299	-264.51	-2.02	1.92	114.9693	-538.9904	SLV 13	1.48				Si
1.9	0.007238	2	0	3,4	73.0802	-342.5924	-261.81	-2.02	1.92	115.7794	-542.7621	SLV 13	1.584				Si
2.2	0.007238	2	0	3,4	68.4683	-320.955	-259.11	-2.02	1.92	116.7126	-547.1069	SLV 13	1.705				Si
2.5	0.007238	2	0	3,4	63.8565	-299.3176	-256.41	-2.02	1.92	117.7992	-552.166	SLV 13	1.845				Si
2.8	0.007238	2	0	3,4	59.2446	-277.6802	-253.71	-2.02	1.92	119.0422	-557.9519	SLV 13	2.009				Si
3.1	0.007238	2	0	3,4	54.6328	-256.0428	-251.01	-2.02	1.92	120.5224	-564.842	SLV 13	2.206				Si

Quota	As	%	At	Pos.	Mx	My	N	ε,cu	ε,fk	MRdx	MRdy	Comb.	C.S.	Nmin	Nlim	Comb.Nmin	Ver.
3.4	0.007238	2	0	3,4	50.0457	-234.5217	-248.32	-2.02	1.92	122.3024	-573.127	SLV 13	2.444				Si
3.7	0.007238	2	0	3,4	45.4091	-212.7679	-245.61	-2.02	1.92	124.5208	-583.4523	SLV 13	2.742				Si
4	0.007238	2	0	3,4	40.7972	-191.1305	-242.91	-2.02	1.92	127.3079	-596.4231	SLV 13	3.121				Si
4.3	0.007238	2	0	3,4	36.1854	-169.4931	-240.21	-2.02	1.92	130.8831	-613.0589	SLV 13	3.617				Si
4.6	0.007238	2	0	3,4	31.5735	-147.8557	-237.51	-2.02	1.92	135.6975	-635.4574	SLV 13	4.298				Si
4.9	0.007238	2	0	3,4	26.9617	-126.2183	-234.81	-2.02	1.92	142.3952	-666.6072	SLV 13	5.281				Si
5.2	0.007238	2	0	3,4	22.3499	-104.5809	-232.11	-2.02	1.92	149.0482	-697.4347	SLV 13	6.669				Si
5.5	0.007238	2	0	3,4	17.7381	-82.9434	-229.41	-2.02	1.92	147.1899	-688.2613	SLV 13	8.298				Si
5.8	0.007238	2	0	3,4	13.1263	-61.306	-226.71	-2.02	1.92	143.8813	-671.994	SLV 13	10.961				Si
6.1	0.007238	2	0	3,4	8.5147	-39.6686	-224.01	-2.02	1.92	135.5871	-631.6807	SLV 13	15.924				Si
6.4	0.007238	2	0	3,4	3.9949	-18.3918	-221.35	-2.02	1.92	100.7027	-463.6126	SLV 13	25.208				Si

2.1.5.3.3 Verifica a pressoflessione in SLD

La struttura oppure parte di essa, è stata dichiarata come non dissipativa pertanto la verifica a pressoflessione, per tutte o solo alcune sezioni, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Le dilatazioni ultime utilizzate sono le dilatazioni limite elastiche

Quota	As	%	At	Pos.	Mx	My	N	MRdx	MRdy	Comb.	Coeff.s.	Verifica
-5.95	0.007238	4	0	1,2	0	0	-332.46	0	0	SLD 7	23.595	Si
-5.9	0.007238	4	0	1,2	-1.6926	0.7237	-331.96	-39.995	17.1003	SLD 8	23.63	Si
-5.6	0.007238	4	0	1,2	3.2777	-15.3519	-329.31	66.9988	-313.8054	SLD 13	20.441	Si
-5.3	0.007238	4	0	1,2	6.0871	-28.5106	-326.61	102.0016	-477.75	SLD 13	16.757	Si
-5	0.007238	4	0	1,2	8.8966	-41.6693	-323.91	122.9531	-575.8812	SLD 13	13.82	Si
-4.7	0.007238	2	0	2	11.706	-54.8281	-321.21	133.8339	-626.8443	SLD 13	11.433	Si
-4.4	0.007238	2	0	2	14.5155	-67.9868	-318.51	139.5023	-653.3936	SLD 13	9.611	Si
-4.1	0.007238	2	0	2	17.3249	-81.1456	-315.81	142.7958	-668.8196	SLD 13	8.242	Si
-3.8	0.007238	2	0	2	20.1344	-94.3043	-313.11	144.948	-678.8999	SLD 13	7.199	Si
-3.5	0.007238	2	0	2	22.9438	-107.463	-310.41	146.534	-686.3283	SLD 13	6.387	Si
-3.2	0.007238	2	0	2	25.7533	-120.6218	-307.71	147.7695	-692.1152	SLD 13	5.738	Si
-2.9	0.007709	3.5	0	2,6	28.5552	-133.7451	-305.01	152.7021	-715.218	SLD 13	5.348	Si
-2.6	0.009123	3.5	0	2,6	31.3722	-146.9393	-302.31	165.5648	-775.4639	SLD 13	5.277	Si
-2.3	0.010537	3.5	0	2,6	34.1816	-160.098	-299.61	178.4175	-835.6625	SLD 13	5.22	Si
-2	0.011951	3.5	0	2,6	36.991	-173.2567	-296.91	191.2545	-895.7882	SLD 13	5.17	Si
-1.7	0.012667	3.5	0	2,6	39.8005	-186.4155	-294.21	198.3077	-928.8234	SLD 13	4.983	Si
-1.4	0.012667	3.5	0	2,6	42.6099	-199.5742	-291.51	199.0252	-932.1838	SLD 13	4.671	Si
-1.1	0.012667	3.5	0	2,6	45.4194	-212.733	-288.81	198.0923	-927.8146	SLD 13	4.361	Si
-1.01	0.012667	3.5	0	2,6	46.2199	-216.4825	-288.04	197.3762	-924.4606	SLD 13	4.27	Si
-0.8	0.012667	3.5	0	2,6	45.5212	-213.2075	-286.11	197.6787	-925.8662	SLD 13	4.343	Si
-0.5	0.012667	3.5	0	2,6	43.6891	-204.622	-283.41	198.8287	-931.2323	SLD 13	4.551	Si
-0.2	0.012667	3.5	0	2,6	41.857	-196.0365	-280.71	199.2073	-932.9839	SLD 13	4.759	Si
0.1	0.012667	3.5	0	2,6	40.0249	-187.4509	-278.01	198.9046	-931.5421	SLD 13	4.97	Si
0.4	0.012422	5.5	0	2,3,4,6	38.1927	-178.8654	-275.31	196.4639	-920.0854	SLD 13	5.144	Si
0.7	0.011008	5.5	0	2,3,4,6	36.3606	-170.2798	-272.61	183.3639	-858.7088	SLD 13	5.043	Si
1	0.009594	5.5	0	2,3,4,6	34.5285	-161.6943	-269.91	168.8664	-790.7885	SLD 13	4.891	Si
1.3	0.008181	5.5	0	2,3,4,6	32.6964	-153.1088	-267.21	152.1446	-712.4545	SLD 13	4.653	Si
1.6	0.007238	2	0	3,4	30.8642	-144.5232	-264.51	141.5641	-662.8806	SLD 13	4.587	Si
1.9	0.007238	2	0	3,4	29.0321	-135.9377	-261.81	144.1428	-674.9228	SLD 13	4.965	Si
2.2	0.007238	2	0	3,4	27.2	-127.3522	-259.11	147.1746	-689.0812	SLD 13	5.411	Si
2.5	0.007238	2	0	3,4	25.3679	-118.7666	-256.41	148.7057	-696.2065	SLD 13	5.862	Si
2.8	0.007238	2	0	3,4	23.5357	-110.1811	-253.71	148.697	-696.1155	SLD 13	6.318	Si
3.1	0.007238	2	0	3,4	21.7036	-101.5955	-251.01	148.1219	-693.3649	SLD 13	6.825	Si
3.4	0.007238	2	0	3,4	19.8813	-93.0562	-248.32	147.4246	-690.032	SLD 13	7.415	Si
3.7	0.007238	2	0	3,4	18.0394	-84.4245	-245.61	146.5583	-685.8944	SLD 13	8.124	Si
4	0.007238	2	0	3,4	16.2072	-75.8389	-242.91	145.4968	-680.8261	SLD 13	8.977	Si
4.3	0.007238	2	0	3,4	14.3751	-67.2534	-240.21	144.1524	-674.4106	SLD 13	10.028	Si
4.6	0.007238	2	0	3,4	12.543	-58.6678	-237.51	142.3355	-665.751	SLD 13	11.348	Si
4.9	0.007238	2	0	3,4	10.7109	-50.0823	-234.81	139.6934	-653.1829	SLD 13	13.042	Si
5.2	0.007238	2	0	3,4	8.8788	-41.4968	-232.11	135.4679	-633.1367	SLD 13	15.257	Si
5.5	0.007238	2	0	3,4	7.0467	-32.9112	-229.41	128.006	-597.8481	SLD 13	18.165	Si
5.8	0.007238	2	0	3,4	5.2146	-24.3257	-226.71	114.2053	-532.762	SLD 13	21.901	Si
6.1	0.007238	2	0	3,4	3.3825	-15.7402	-224.01	89.7684	-417.725	SLD 13	26.539	Si
6.4	0.007238	2	0	3,4	1.587	-7.2977	-221.35	52.2106	-240.0881	SLD 13	32.899	Si

2.1.5.3.4 Verifica a taglio in famiglia SLU

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	0	-315.34	SLU 1	172.02	242.17	927.47	2.5	1000	0	-315.34	SLU 1	172.02	242.17	927.47	2.5	1000	Si
-5.9	2X/2Y ø8/19.9	0	-314.85	SLU 1	171.96	242.17	927.4	2.5	1000	0	-314.85	SLU 1	171.96	242.17	927.4	2.5	1000	Si
-5.6	2X/2Y ø8/19.9	0	-312.19	SLU 1	171.59	242.17	927.02	2.5	1000	0	-312.19	SLU 1	171.59	242.17	927.02	2.5	1000	Si
-5.3	2X/2Y ø8/19.9	0	-309.49	SLU 1	171.23	242.17	926.64	2.5	1000	0	-309.49	SLU 1	171.23	242.17	926.64	2.5	1000	Si
-5	2X/2Y ø8/19.9	0	-306.79	SLU 1	170.86	242.17	926.26	2.5	1000	0	-306.79	SLU 1	170.86	242.17	926.26	2.5	1000	Si
-4.7	2X/2Y ø8/19.9	0	-304.09	SLU 1	170.49	242.17	925.88	2.5	1000	0	-304.09	SLU 1	170.49	242.17	925.88	2.5	1000	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-4.4	2X/2Y ø8/19.9	0	-301.39	SLU 1	170.12	242.17	925.5	2.5	1000	0	-301.39	SLU 1	170.12	242.17	925.5	2.5	1000	Si
-4.1	2X/2Y ø8/19.9	0	-298.69	SLU 1	169.75	242.17	925.12	2.5	1000	0	-298.69	SLU 1	169.75	242.17	925.12	2.5	1000	Si
-3.8	2X/2Y ø8/19.9	0	-295.99	SLU 1	169.39	242.17	924.74	2.5	1000	0	-295.99	SLU 1	169.39	242.17	924.74	2.5	1000	Si
-3.5	2X/2Y ø8/19.9	0	-293.29	SLU 1	169.02	242.17	924.36	2.5	1000	0	-293.29	SLU 1	169.02	242.17	924.36	2.5	1000	Si
-3.2	2X/2Y ø8/19.9	0	-290.59	SLU 1	168.65	242.17	923.98	2.5	1000	0	-290.59	SLU 1	168.65	242.17	923.98	2.5	1000	Si
-2.9	2X/2Y ø8/19.9	0	-287.9	SLU 1	168.28	242.17	923.6	2.5	1000	0	-287.9	SLU 1	168.28	242.17	923.6	2.5	1000	Si
-2.6	2X/2Y ø8/19.9	0	-285.19	SLU 1	167.92	242.17	923.22	2.5	1000	0	-285.19	SLU 1	167.92	242.17	923.22	2.5	1000	Si
-2.3	2X/2Y ø8/19.9	0	-282.49	SLU 1	167.55	242.17	922.84	2.5	1000	0	-282.49	SLU 1	167.55	242.17	922.84	2.5	1000	Si
-2	2X/2Y ø8/19.9	0	-279.79	SLU 1	167.18	242.17	922.45	2.5	1000	0	-279.79	SLU 1	167.18	242.17	922.45	2.5	1000	Si
-1.7	2X/2Y ø8/19.9	0	-277.09	SLU 1	166.81	242.17	922.07	2.5	1000	0	-277.09	SLU 1	166.81	242.17	922.07	2.5	1000	Si
-1.4	2X/2Y ø8/19.9	0	-274.39	SLU 1	166.44	242.17	921.69	2.5	1000	0	-274.39	SLU 1	166.44	242.17	921.69	2.5	1000	Si
-1.1	2X/2Y ø8/19.9	0	-271.69	SLU 1	166.08	242.17	921.31	2.5	1000	0	-271.69	SLU 1	166.08	242.17	921.31	2.5	1000	Si
-1.01	2X/2Y ø8/19.9	0	-270.92	SLU 1	165.97	242.17	921.2	2.5	1000	0	-270.92	SLU 1	165.97	242.17	921.2	2.5	1000	Si
-0.8	2X/2Y ø8/19.9	0	-268.99	SLU 1	165.71	242.17	920.93	2.5	1000	0	-268.99	SLU 1	165.71	242.17	920.93	2.5	1000	Si
-0.5	2X/2Y ø8/19.9	0	-266.29	SLU 1	165.34	242.17	920.55	2.5	1000	0	-266.29	SLU 1	165.34	242.17	920.55	2.5	1000	Si
-0.2	2X/2Y ø8/19.9	0	-263.59	SLU 1	164.97	242.17	920.17	2.5	1000	0	-263.59	SLU 1	164.97	242.17	920.17	2.5	1000	Si
0.1	2X/2Y ø8/19.9	0	-260.89	SLU 1	164.6	242.17	919.79	2.5	1000	0	-260.89	SLU 1	164.6	242.17	919.79	2.5	1000	Si
0.4	2X/2Y ø8/19.9	0	-258.19	SLU 1	164.24	242.17	919.41	2.5	1000	0	-258.19	SLU 1	164.24	242.17	919.41	2.5	1000	Si
0.7	2X/2Y ø8/19.9	0	-255.49	SLU 1	163.87	242.17	919.03	2.5	1000	0	-255.49	SLU 1	163.87	242.17	919.03	2.5	1000	Si
1	2X/2Y ø8/19.9	0	-252.79	SLU 1	163.5	242.17	918.65	2.5	1000	0	-252.79	SLU 1	163.5	242.17	918.65	2.5	1000	Si
1.3	2X/2Y ø8/19.9	0	-250.09	SLU 1	163.13	242.17	918.27	2.5	1000	0	-250.09	SLU 1	163.13	242.17	918.27	2.5	1000	Si
1.6	2X/2Y ø8/19.9	0	-247.39	SLU 1	162.77	242.17	917.89	2.5	1000	0	-247.39	SLU 1	162.77	242.17	917.89	2.5	1000	Si
1.9	2X/2Y ø8/19.9	0	-244.69	SLU 1	162.4	242.17	917.51	2.5	1000	0	-244.69	SLU 1	162.4	242.17	917.51	2.5	1000	Si
2.2	2X/2Y ø8/19.9	0	-241.99	SLU 1	162.03	242.17	917.13	2.5	1000	0	-241.99	SLU 1	162.03	242.17	917.13	2.5	1000	Si
2.5	2X/2Y ø8/19.9	0	-239.29	SLU 1	161.66	242.17	916.75	2.5	1000	0	-239.29	SLU 1	161.66	242.17	916.75	2.5	1000	Si
2.8	2X/2Y ø8/19.9	0	-236.59	SLU 1	161.29	242.17	916.37	2.5	1000	0	-236.59	SLU 1	161.29	242.17	916.37	2.5	1000	Si
3.1	2X/2Y ø8/19.9	0	-233.89	SLU 1	160.93	242.17	915.98	2.5	1000	0	-233.89	SLU 1	160.93	242.17	915.98	2.5	1000	Si
3.4	2X/2Y ø8/19.9	0	-231.21	SLU 1	160.56	242.17	915.61	2.5	1000	0	-231.21	SLU 1	160.56	242.17	915.61	2.5	1000	Si
3.7	2X/2Y ø8/19.9	0	-228.49	SLU 1	160.19	242.17	915.22	2.5	1000	0	-228.49	SLU 1	160.19	242.17	915.22	2.5	1000	Si
4	2X/2Y ø8/19.9	0	-225.79	SLU 1	159.82	242.17	914.84	2.5	1000	0	-225.79	SLU 1	159.82	242.17	914.84	2.5	1000	Si
4.3	2X/2Y ø8/19.9	0	-223.09	SLU 1	159.45	242.17	914.46	2.5	1000	0	-223.09	SLU 1	159.45	242.17	914.46	2.5	1000	Si
4.6	2X/2Y ø8/19.9	0	-220.39	SLU 1	159.09	242.17	914.08	2.5	1000	0	-220.39	SLU 1	159.09	242.17	914.08	2.5	1000	Si
4.9	2X/2Y ø8/19.9	0	-217.69	SLU 1	158.72	242.17	913.7	2.5	1000	0	-217.69	SLU 1	158.72	242.17	913.7	2.5	1000	Si
5.2	2X/2Y ø8/19.9	0	-214.99	SLU 1	158.35	242.17	913.32	2.5	1000	0	-214.99	SLU 1	158.35	242.17	913.32	2.5	1000	Si
5.5	2X/2Y ø8/19.9	0	-212.29	SLU 1	157.98	242.17	912.94	2.5	1000	0	-212.29	SLU 1	157.98	242.17	912.94	2.5	1000	Si
5.8	2X/2Y ø8/19.9	0	-209.59	SLU 1	157.62	242.17	912.56	2.5	1000	0	-209.59	SLU 1	157.62	242.17	912.56	2.5	1000	Si
6.1	2X/2Y ø8/19.9	0	-206.89	SLU 1	157.25	242.17	912.18	2.5	1000	0	-206.89	SLU 1	157.25	242.17	912.18	2.5	1000	Si
6.4	2X/2Y ø8/19.9	0	-204.24	SLU 1	156.89	242.17	911.81	2.5	1000	0	-204.24	SLU 1	156.89	242.17	911.81	2.5	1000	Si

2.1.5.3.5 Verifica a taglio in famiglia SLV

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	110.54	-332.46	SLV 1	174.36	242.17	929.88	2.5	2.19	77.54	-332.46	SLV 9	174.36	242.17	929.88	2.5	3.12	Si
-5.9	2X/2Y ø8/19.9	110.54	-331.96	SLV 1	174.29	242.17	929.81	2.5	2.19	77.54	-331.96	SLV 9	174.29	242.17	929.81	2.5	3.12	Si
-5.6	2X/2Y ø8/19.9	110.54	-329.31	SLV 1	173.93	242.17	929.43	2.5	2.19	77.54	-329.31	SLV 9	173.93	242.17	929.43	2.5	3.12	Si
-5.3	2X/2Y ø8/19.9	110.54	-326.61	SLV 1	173.56	242.17	929.05	2.5	2.19	77.54	-326.61	SLV 9	173.56	242.17	929.05	2.5	3.12	Si
-5	2X/2Y ø8/19.9	110.54	-323.91	SLV 1	173.19	242.17	928.67	2.5	2.19	77.54	-323.91	SLV 9	173.19	242.17	928.67	2.5	3.12	Si
-4.7	2X/2Y ø8/19.9	110.54	-321.21	SLV 1	172.82	242.17	928.29	2.5	2.19	77.54	-321.21	SLV 9	172.82	242.17	928.29	2.5	3.12	Si
-4.4	2X/2Y ø8/19.9	110.54	-318.51	SLV 1	172.45	242.17	927.91	2.5	2.19	77.54	-318.51	SLV 9	172.45	242.17	927.91	2.5	3.12	Si
-4.1	2X/2Y ø8/19.9	110.54	-315.81	SLV 1	172.09	242.17	927.53	2.5	2.19	77.54	-315.81	SLV 9	172.09	242.17	927.53	2.5	3.12	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.8	2X/2Y ø8/19.9	110.54	-313.11	SLV 1	171.72	242.17	927.15	2.5	2.19	77.54	-313.11	SLV 9	171.72	242.17	927.15	2.5	3.12	Si
-3.5	2X/2Y ø8/19.9	110.54	-310.41	SLV 1	171.35	242.17	926.77	2.5	2.19	77.54	-310.41	SLV 9	171.35	242.17	926.77	2.5	3.12	Si
-3.2	2X/2Y ø8/19.9	110.54	-307.71	SLV 1	170.98	242.17	926.39	2.5	2.19	77.54	-307.71	SLV 9	170.98	242.17	926.39	2.5	3.12	Si
-2.9	2X/2Y ø8/19.9	110.54	-305.01	SLV 1	170.62	242.17	926.01	2.5	2.19	77.54	-305.01	SLV 9	170.62	242.17	926.01	2.5	3.12	Si
-2.6	2X/2Y ø8/19.9	110.54	-302.31	SLV 1	170.25	242.17	925.63	2.5	2.19	77.54	-302.31	SLV 9	170.25	242.17	925.63	2.5	3.12	Si
-2.3	2X/2Y ø8/19.9	110.54	-299.61	SLV 1	169.88	242.17	925.25	2.5	2.19	77.54	-299.61	SLV 9	169.88	242.17	925.25	2.5	3.12	Si
-2	2X/2Y ø8/19.9	110.54	-296.91	SLV 1	169.51	242.17	924.87	2.5	2.19	77.54	-296.91	SLV 9	169.51	242.17	924.87	2.5	3.12	Si
-1.7	2X/2Y ø8/19.9	110.54	-294.21	SLV 1	169.14	242.17	924.49	2.5	2.19	77.54	-294.21	SLV 9	169.14	242.17	924.49	2.5	3.12	Si
-1.4	2X/2Y ø8/19.9	110.54	-291.51	SLV 1	168.78	242.17	924.11	2.5	2.19	77.54	-291.51	SLV 9	168.78	242.17	924.11	2.5	3.12	Si
-1.1	2X/2Y ø8/19.9	110.54	-288.81	SLV 1	168.41	242.17	923.73	2.5	2.19	77.54	-288.81	SLV 9	168.41	242.17	923.73	2.5	3.12	Si
-1.01	2X/2Y ø8/19.9	110.54	-288.04	SLV 1	168.3	242.17	923.62	2.5	2.19	77.54	-288.04	SLV 9	168.3	242.17	923.62	2.5	3.12	Si
-0.8	2X/2Y ø8/19.9	-72.13	-286.11	SLV 1	168.04	242.17	923.34	2.5	3.36	-50.57	-286.11	SLV 9	168.04	242.17	923.34	2.5	4.79	Si
-0.5	2X/2Y ø8/19.9	-72.13	-283.41	SLV 1	167.67	242.17	922.96	2.5	3.36	-50.57	-283.41	SLV 9	167.67	242.17	922.96	2.5	4.79	Si
-0.2	2X/2Y ø8/19.9	-72.13	-280.71	SLV 1	167.3	242.17	922.58	2.5	3.36	-50.57	-280.71	SLV 9	167.3	242.17	922.58	2.5	4.79	Si
0.1	2X/2Y ø8/19.9	-72.13	-278.01	SLV 1	166.94	242.17	922.2	2.5	3.36	-50.57	-278.01	SLV 9	166.94	242.17	922.2	2.5	4.79	Si
0.4	2X/2Y ø8/19.9	-72.13	-275.31	SLV 1	166.57	242.17	921.82	2.5	3.36	-50.57	-275.31	SLV 9	166.57	242.17	921.82	2.5	4.79	Si
0.7	2X/2Y ø8/19.9	-72.13	-272.61	SLV 1	166.2	242.17	921.44	2.5	3.36	-50.57	-272.61	SLV 9	166.2	242.17	921.44	2.5	4.79	Si
1	2X/2Y ø8/19.9	-72.13	-269.91	SLV 1	165.83	242.17	921.06	2.5	3.36	-50.57	-269.91	SLV 9	165.83	242.17	921.06	2.5	4.79	Si
1.3	2X/2Y ø8/19.9	-72.13	-267.21	SLV 1	165.47	242.17	920.68	2.5	3.36	-50.57	-267.21	SLV 9	165.47	242.17	920.68	2.5	4.79	Si
1.6	2X/2Y ø8/19.9	-72.13	-264.51	SLV 1	165.1	242.17	920.3	2.5	3.36	-50.57	-264.51	SLV 9	165.1	242.17	920.3	2.5	4.79	Si
1.9	2X/2Y ø8/19.9	-72.13	-261.81	SLV 1	164.73	242.17	919.92	2.5	3.36	-50.57	-261.81	SLV 9	164.73	242.17	919.92	2.5	4.79	Si
2.2	2X/2Y ø8/19.9	-72.13	-259.11	SLV 1	164.36	242.17	919.54	2.5	3.36	-50.57	-259.11	SLV 9	164.36	242.17	919.54	2.5	4.79	Si
2.5	2X/2Y ø8/19.9	-72.13	-256.41	SLV 1	163.99	242.17	919.16	2.5	3.36	-50.57	-256.41	SLV 9	163.99	242.17	919.16	2.5	4.79	Si
2.8	2X/2Y ø8/19.9	-72.13	-253.71	SLV 1	163.63	242.17	918.78	2.5	3.36	-50.57	-253.71	SLV 9	163.63	242.17	918.78	2.5	4.79	Si
3.1	2X/2Y ø8/19.9	-72.13	-251.01	SLV 1	163.26	242.17	918.4	2.5	3.36	-50.57	-251.01	SLV 9	163.26	242.17	918.4	2.5	4.79	Si
3.4	2X/2Y ø8/19.9	-72.13	-248.32	SLV 1	162.89	242.17	918.02	2.5	3.36	-50.57	-248.32	SLV 9	162.89	242.17	918.02	2.5	4.79	Si
3.7	2X/2Y ø8/19.9	-72.13	-245.61	SLV 1	162.52	242.17	917.64	2.5	3.36	-50.57	-245.61	SLV 9	162.52	242.17	917.64	2.5	4.79	Si
4	2X/2Y ø8/19.9	-72.13	-242.91	SLV 1	162.15	242.17	917.26	2.5	3.36	-50.57	-242.91	SLV 9	162.15	242.17	917.26	2.5	4.79	Si
4.3	2X/2Y ø8/19.9	-72.13	-240.21	SLV 1	161.79	242.17	916.87	2.5	3.36	-50.57	-240.21	SLV 9	161.79	242.17	916.87	2.5	4.79	Si
4.6	2X/2Y ø8/19.9	-72.13	-237.51	SLV 1	161.42	242.17	916.49	2.5	3.36	-50.57	-237.51	SLV 9	161.42	242.17	916.49	2.5	4.79	Si
4.9	2X/2Y ø8/19.9	-72.13	-234.81	SLV 1	161.05	242.17	916.11	2.5	3.36	-50.57	-234.81	SLV 9	161.05	242.17	916.11	2.5	4.79	Si
5.2	2X/2Y ø8/19.9	-72.13	-232.11	SLV 1	160.68	242.17	915.73	2.5	3.36	-50.57	-232.11	SLV 9	160.68	242.17	915.73	2.5	4.79	Si
5.5	2X/2Y ø8/19.9	-72.13	-229.41	SLV 1	160.31	242.17	915.35	2.5	3.36	-50.57	-229.41	SLV 9	160.31	242.17	915.35	2.5	4.79	Si
5.8	2X/2Y ø8/19.9	-72.13	-226.71	SLV 1	159.95	242.17	914.97	2.5	3.36	-50.57	-226.71	SLV 9	159.95	242.17	914.97	2.5	4.79	Si
6.1	2X/2Y ø8/19.9	-72.13	-224.01	SLV 1	159.58	242.17	914.59	2.5	3.36	-50.57	-224.01	SLV 9	159.58	242.17	914.59	2.5	4.79	Si
6.4	2X/2Y ø8/19.9	-72.13	-221.35	SLV 1	159.22	242.17	914.22	2.5	3.36	-50.57	-221.35	SLV 9	159.22	242.17	914.22	2.5	4.79	Si

2.1.5.3.6 Verifica a taglio in famiglia SLD Resistenza

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-5.95	2X/2Y ø8/19.9	43.86	-332.46	SLD 1	174.36	242.17	929.88	2.5	5.52	30.77	-332.46	SLD 9	174.36	242.17	929.88	2.5	7.87	Si
-5.9	2X/2Y ø8/19.9	43.86	-331.96	SLD 1	174.29	242.17	929.81	2.5	5.52	30.77	-331.96	SLD 9	174.29	242.17	929.81	2.5	7.87	Si
-5.6	2X/2Y ø8/19.9	43.86	-329.31	SLD 1	173.93	242.17	929.43	2.5	5.52	30.77	-329.31	SLD 9	173.93	242.17	929.43	2.5	7.87	Si
-5.3	2X/2Y ø8/19.9	43.86	-326.61	SLD 1	173.56	242.17	929.05	2.5	5.52	30.77	-326.61	SLD 9	173.56	242.17	929.05	2.5	7.87	Si
-5	2X/2Y ø8/19.9	43.86	-323.91	SLD 1	173.19	242.17	928.67	2.5	5.52	30.77	-323.91	SLD 9	173.19	242.17	928.67	2.5	7.87	Si
-4.7	2X/2Y ø8/19.9	43.86	-321.21	SLD 1	172.82	242.17	928.29	2.5	5.52	30.77	-321.21	SLD 9	172.82	242.17	928.29	2.5	7.87	Si
-4.4	2X/2Y ø8/19.9	43.86	-318.51	SLD 1	172.45	242.17	927.91	2.5	5.52	30.77	-318.51	SLD 9	172.45	242.17	927.91	2.5	7.87	Si
-4.1	2X/2Y ø8/19.9	43.86	-315.81	SLD 1	172.09	242.17	927.53	2.5	5.52	30.77	-315.81	SLD 9	172.09	242.17	927.53	2.5	7.87	Si
-3.8	2X/2Y ø8/19.9	43.86	-313.11	SLD 1	171.72	242.17	927.15	2.5	5.52	30.77	-313.11	SLD 9	171.72	242.17	927.15	2.5	7.87	Si
-3.5	2X/2Y ø8/19.9	43.86	-310.41	SLD 1	171.35	242.17	926.77	2.5	5.52	30.77	-310.41	SLD 9	171.35	242.17	926.77	2.5	7.87	Si

		Direzione X								Direzione Y								Verifica
Quota	Staffe	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	V	N	Comb.	VRd	VRsd	VRcd	Cot	c.s.	
-3.2	2X/2Y ø8/19.9	43.86	-307.71	SLD 1	170.98	242.17	926.39	2.5	5.52	30.77	-307.71	SLD 9	170.98	242.17	926.39	2.5	7.87	Si
-2.9	2X/2Y ø8/19.9	43.86	-305.01	SLD 1	170.62	242.17	926.01	2.5	5.52	30.77	-305.01	SLD 9	170.62	242.17	926.01	2.5	7.87	Si
-2.6	2X/2Y ø8/19.9	43.86	-302.31	SLD 1	170.25	242.17	925.63	2.5	5.52	30.77	-302.31	SLD 9	170.25	242.17	925.63	2.5	7.87	Si
-2.3	2X/2Y ø8/19.9	43.86	-299.61	SLD 1	169.88	242.17	925.25	2.5	5.52	30.77	-299.61	SLD 9	169.88	242.17	925.25	2.5	7.87	Si
-2	2X/2Y ø8/19.9	43.86	-296.91	SLD 1	169.51	242.17	924.87	2.5	5.52	30.77	-296.91	SLD 9	169.51	242.17	924.87	2.5	7.87	Si
-1.7	2X/2Y ø8/19.9	43.86	-294.21	SLD 1	169.14	242.17	924.49	2.5	5.52	30.77	-294.21	SLD 9	169.14	242.17	924.49	2.5	7.87	Si
-1.4	2X/2Y ø8/19.9	43.86	-291.51	SLD 1	168.78	242.17	924.11	2.5	5.52	30.77	-291.51	SLD 9	168.78	242.17	924.11	2.5	7.87	Si
-1.1	2X/2Y ø8/19.9	43.86	-288.81	SLD 1	168.41	242.17	923.73	2.5	5.52	30.77	-288.81	SLD 9	168.41	242.17	923.73	2.5	7.87	Si
-1.01	2X/2Y ø8/19.9	43.86	-288.04	SLD 1	168.3	242.17	923.62	2.5	5.52	30.77	-288.04	SLD 9	168.3	242.17	923.62	2.5	7.87	Si
-0.8	2X/2Y ø8/19.9	-28.62	-286.11	SLD 1	168.04	242.17	923.34	2.5	8.46	-20.07	-286.11	SLD 9	168.04	242.17	923.34	2.5	12.07	Si
-0.5	2X/2Y ø8/19.9	-28.62	-283.41	SLD 1	167.67	242.17	922.96	2.5	8.46	-20.07	-283.41	SLD 9	167.67	242.17	922.96	2.5	12.07	Si
-0.2	2X/2Y ø8/19.9	-28.62	-280.71	SLD 1	167.3	242.17	922.58	2.5	8.46	-20.07	-280.71	SLD 9	167.3	242.17	922.58	2.5	12.07	Si
0.1	2X/2Y ø8/19.9	-28.62	-278.01	SLD 1	166.94	242.17	922.2	2.5	8.46	-20.07	-278.01	SLD 9	166.94	242.17	922.2	2.5	12.07	Si
0.4	2X/2Y ø8/19.9	-28.62	-275.31	SLD 1	166.57	242.17	921.82	2.5	8.46	-20.07	-275.31	SLD 9	166.57	242.17	921.82	2.5	12.07	Si
0.7	2X/2Y ø8/19.9	-28.62	-272.61	SLD 1	166.2	242.17	921.44	2.5	8.46	-20.07	-272.61	SLD 9	166.2	242.17	921.44	2.5	12.07	Si
1	2X/2Y ø8/19.9	-28.62	-269.91	SLD 1	165.83	242.17	921.06	2.5	8.46	-20.07	-269.91	SLD 9	165.83	242.17	921.06	2.5	12.07	Si
1.3	2X/2Y ø8/19.9	-28.62	-267.21	SLD 1	165.47	242.17	920.68	2.5	8.46	-20.07	-267.21	SLD 9	165.47	242.17	920.68	2.5	12.07	Si
1.6	2X/2Y ø8/19.9	-28.62	-264.51	SLD 1	165.1	242.17	920.3	2.5	8.46	-20.07	-264.51	SLD 9	165.1	242.17	920.3	2.5	12.07	Si
1.9	2X/2Y ø8/19.9	-28.62	-261.81	SLD 1	164.73	242.17	919.92	2.5	8.46	-20.07	-261.81	SLD 9	164.73	242.17	919.92	2.5	12.07	Si
2.2	2X/2Y ø8/19.9	-28.62	-259.11	SLD 1	164.36	242.17	919.54	2.5	8.46	-20.07	-259.11	SLD 9	164.36	242.17	919.54	2.5	12.07	Si
2.5	2X/2Y ø8/19.9	-28.62	-256.41	SLD 1	163.99	242.17	919.16	2.5	8.46	-20.07	-256.41	SLD 9	163.99	242.17	919.16	2.5	12.07	Si
2.8	2X/2Y ø8/19.9	-28.62	-253.71	SLD 1	163.63	242.17	918.78	2.5	8.46	-20.07	-253.71	SLD 9	163.63	242.17	918.78	2.5	12.07	Si
3.1	2X/2Y ø8/19.9	-28.62	-251.01	SLD 1	163.26	242.17	918.4	2.5	8.46	-20.07	-251.01	SLD 9	163.26	242.17	918.4	2.5	12.07	Si
3.4	2X/2Y ø8/19.9	-28.62	-248.32	SLD 1	162.89	242.17	918.02	2.5	8.46	-20.07	-248.32	SLD 9	162.89	242.17	918.02	2.5	12.07	Si
3.7	2X/2Y ø8/19.9	-28.62	-245.61	SLD 1	162.52	242.17	917.64	2.5	8.46	-20.07	-245.61	SLD 9	162.52	242.17	917.64	2.5	12.07	Si
4	2X/2Y ø8/19.9	-28.62	-242.91	SLD 1	162.15	242.17	917.26	2.5	8.46	-20.07	-242.91	SLD 9	162.15	242.17	917.26	2.5	12.07	Si
4.3	2X/2Y ø8/19.9	-28.62	-240.21	SLD 1	161.79	242.17	916.87	2.5	8.46	-20.07	-240.21	SLD 9	161.79	242.17	916.87	2.5	12.07	Si
4.6	2X/2Y ø8/19.9	-28.62	-237.51	SLD 1	161.42	242.17	916.49	2.5	8.46	-20.07	-237.51	SLD 9	161.42	242.17	916.49	2.5	12.07	Si
4.9	2X/2Y ø8/19.9	-28.62	-234.81	SLD 1	161.05	242.17	916.11	2.5	8.46	-20.07	-234.81	SLD 9	161.05	242.17	916.11	2.5	12.07	Si
5.2	2X/2Y ø8/19.9	-28.62	-232.11	SLD 1	160.68	242.17	915.73	2.5	8.46	-20.07	-232.11	SLD 9	160.68	242.17	915.73	2.5	12.07	Si
5.5	2X/2Y ø8/19.9	-28.62	-229.41	SLD 1	160.31	242.17	915.35	2.5	8.46	-20.07	-229.41	SLD 9	160.31	242.17	915.35	2.5	12.07	Si
5.8	2X/2Y ø8/19.9	-28.62	-226.71	SLD 1	159.95	242.17	914.97	2.5	8.46	-20.07	-226.71	SLD 9	159.95	242.17	914.97	2.5	12.07	Si
6.1	2X/2Y ø8/19.9	-28.62	-224.01	SLD 1	159.58	242.17	914.59	2.5	8.46	-20.07	-224.01	SLD 9	159.58	242.17	914.59	2.5	12.07	Si
6.4	2X/2Y ø8/19.9	-28.62	-221.35	SLD 1	159.22	242.17	914.22	2.5	8.46	-20.07	-221.35	SLD 9	159.22	242.17	914.22	2.5	12.07	Si

2.1.5.3.7 Verifica delle tensioni in combinazioni rara

Tensione limite del calcestruzzo 18426 kN/m²

Tensione limite dell'acciaio 360000 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-5.95	0	0	-378.29	SLE RA 2	-807	0	0	-378.29	SLE RA 2	-12110	Si
-5.9	0	0	-377.8	SLE RA 3	-806	0	0	-377.8	SLE RA 3	-12094	Si
-5.6	0	0	-375.14	SLE RA 3	-801	0	0	-375.14	SLE RA 3	-12009	Si
-5.3	0	0	-372.44	SLE RA 3	-795	0	0	-372.44	SLE RA 3	-11923	Si
-5	0	0	-369.74	SLE RA 3	-789	0	0	-369.74	SLE RA 3	-11836	Si
-4.7	0	0	-367.04	SLE RA 3	-783	0	0	-367.04	SLE RA 3	-11750	Si
-4.4	0	0	-364.34	SLE RA 3	-778	0	0	-364.34	SLE RA 3	-11663	Si
-4.1	0	0	-361.64	SLE RA 3	-772	0	0	-361.64	SLE RA 3	-11577	Si
-3.8	0	0	-358.94	SLE RA 3	-766	0	0	-358.94	SLE RA 3	-11490	Si
-3.5	0	0	-356.24	SLE RA 3	-760	0	0	-356.24	SLE RA 3	-11404	Si
-3.2	0	0	-353.54	SLE RA 3	-755	0	0	-353.54	SLE RA 3	-11318	Si
-2.9	0	0	-350.85	SLE RA 3	-738	0	0	-350.85	SLE RA 3	-11064	Si
-2.6	0	0	-348.14	SLE RA 3	-701	0	0	-348.14	SLE RA 3	-10511	Si
-2.3	0	0	-345.44	SLE RA 3	-667	0	0	-345.44	SLE RA 3	-10002	Si
-2	0	0	-342.74	SLE RA 3	-636	0	0	-342.74	SLE RA 3	-9534	Si
-1.7	0	0	-340.04	SLE RA 3	-618	0	0	-340.04	SLE RA 3	-9274	Si
-1.4	0	0	-337.34	SLE RA 3	-613	0	0	-337.34	SLE RA 3	-9200	Si
-1.1	0	0	-334.64	SLE RA 3	-608	0	0	-334.64	SLE RA 3	-9127	Si

Quota	Mx	My	N	Comb.	σc,max	Mx	My	N	Comb.	σf,max	Verifica
-1.01	0	0	-333.87	SLE RA 3	-607	0	0	-333.87	SLE RA 3	-9106	Si
-0.8	0	0	-331.94	SLE RA 3	-604	0	0	-331.94	SLE RA 3	-9053	Si
-0.5	0	0	-329.24	SLE RA 3	-599	0	0	-329.24	SLE RA 3	-8979	Si
-0.2	0	0	-326.54	SLE RA 3	-594	0	0	-326.54	SLE RA 3	-8906	Si
0.1	0	0	-323.84	SLE RA 3	-589	0	0	-323.84	SLE RA 3	-8832	Si
0.4	0	0	-321.14	SLE RA 3	-588	0	0	-321.14	SLE RA 3	-8817	Si
0.7	0	0	-318.44	SLE RA 3	-606	0	0	-318.44	SLE RA 3	-9096	Si
1	0	0	-315.74	SLE RA 3	-627	0	0	-315.74	SLE RA 3	-9399	Si
1.3	0	0	-313.04	SLE RA 3	-649	0	0	-313.04	SLE RA 3	-9728	Si
1.6	0	0	-310.34	SLE RA 3	-662	0	0	-310.34	SLE RA 3	-9935	Si
1.9	0	0	-307.64	SLE RA 3	-657	0	0	-307.64	SLE RA 3	-9848	Si
2.2	0	0	-304.94	SLE RA 3	-651	0	0	-304.94	SLE RA 3	-9762	Si
2.5	0	0	-302.24	SLE RA 3	-645	0	0	-302.24	SLE RA 3	-9675	Si
2.8	0	0	-299.54	SLE RA 3	-639	0	0	-299.54	SLE RA 3	-9589	Si
3.1	0	0	-296.84	SLE RA 3	-634	0	0	-296.84	SLE RA 3	-9503	Si
3.4	0	0	-294.16	SLE RA 3	-628	0	0	-294.16	SLE RA 3	-9417	Si
3.7	0	0	-291.44	SLE RA 3	-622	0	0	-291.44	SLE RA 3	-9330	Si
4	0	0	-288.74	SLE RA 3	-616	0	0	-288.74	SLE RA 3	-9243	Si
4.3	0	0	-286.04	SLE RA 3	-610	0	0	-286.04	SLE RA 3	-9157	Si
4.6	0	0	-283.34	SLE RA 3	-605	0	0	-283.34	SLE RA 3	-9070	Si
4.9	0	0	-280.64	SLE RA 3	-599	0	0	-280.64	SLE RA 3	-8984	Si
5.2	0	0	-277.94	SLE RA 3	-593	0	0	-277.94	SLE RA 3	-8897	Si
5.5	0	0	-275.24	SLE RA 3	-587	0	0	-275.24	SLE RA 3	-8811	Si
5.8	0	0	-272.54	SLE RA 3	-582	0	0	-272.54	SLE RA 3	-8725	Si
6.1	0	0	-269.84	SLE RA 3	-576	0	0	-269.84	SLE RA 3	-8638	Si
6.4	0	0	-267.19	SLE RA 2	-570	0	0	-267.19	SLE RA 2	-8553	Si

2.1.5.3.8 Verifica delle tensioni sul calcestruzzo in combinazioni quasi permanenti

Tensione limite del calcestruzzo 13820 kN/m²

Coefficiente di omogeneizzazione impiegato 15

Quota	Mx	My	N	Comb.	σc,max	Verifica
-5.95	0	0	-332.46	SLE QP 1	-710	Si
-5.9	0	0	-331.96	SLE QP 2	-708	Si
-5.6	0	0	-329.31	SLE QP 2	-703	Si
-5.3	0	0	-326.61	SLE QP 2	-697	Si
-5	0	0	-323.91	SLE QP 2	-691	Si
-4.7	0	0	-321.21	SLE QP 2	-685	Si
-4.4	0	0	-318.51	SLE QP 2	-680	Si
-4.1	0	0	-315.81	SLE QP 2	-674	Si
-3.8	0	0	-313.11	SLE QP 2	-668	Si
-3.5	0	0	-310.41	SLE QP 2	-662	Si
-3.2	0	0	-307.71	SLE QP 2	-657	Si
-2.9	0	0	-305.01	SLE QP 2	-641	Si
-2.6	0	0	-302.31	SLE QP 2	-608	Si
-2.3	0	0	-299.61	SLE QP 2	-578	Si
-2	0	0	-296.91	SLE QP 2	-551	Si
-1.7	0	0	-294.21	SLE QP 2	-535	Si
-1.4	0	0	-291.51	SLE QP 2	-530	Si
-1.1	0	0	-288.81	SLE QP 2	-525	Si
-1.01	0	0	-288.04	SLE QP 2	-524	Si
-0.8	0	0	-286.11	SLE QP 2	-520	Si
-0.5	0	0	-283.41	SLE QP 2	-515	Si
-0.2	0	0	-280.71	SLE QP 2	-510	Si
0.1	0	0	-278.01	SLE QP 2	-505	Si
0.4	0	0	-275.31	SLE QP 2	-504	Si
0.7	0	0	-272.61	SLE QP 2	-519	Si
1	0	0	-269.91	SLE QP 2	-536	Si
1.3	0	0	-267.21	SLE QP 2	-554	Si
1.6	0	0	-264.51	SLE QP 2	-564	Si
1.9	0	0	-261.81	SLE QP 2	-559	Si
2.2	0	0	-259.11	SLE QP 2	-553	Si
2.5	0	0	-256.41	SLE QP 2	-547	Si
2.8	0	0	-253.71	SLE QP 2	-541	Si
3.1	0	0	-251.01	SLE QP 2	-536	Si
3.4	0	0	-248.32	SLE QP 2	-530	Si
3.7	0	0	-245.61	SLE QP 2	-524	Si
4	0	0	-242.91	SLE QP 2	-518	Si
4.3	0	0	-240.21	SLE QP 2	-513	Si
4.6	0	0	-237.51	SLE QP 2	-507	Si
4.9	0	0	-234.81	SLE QP 2	-501	Si
5.2	0	0	-232.11	SLE QP 2	-495	Si
5.5	0	0	-229.41	SLE QP 2	-490	Si
5.8	0	0	-226.71	SLE QP 2	-484	Si
6.1	0	0	-224.01	SLE QP 2	-478	Si
6.4	0	0	-221.35	SLE QP 1	-472	Si

2.1.5.3.9 Verifica di apertura delle fessure nella famiglia di combinazioni frequente

Fessurazione non presente

2.1.5.3.10 Verifica di apertura delle fessure nella famiglia di combinazioni quasi permanente

Fessurazione non presente

2.1.5.4 Verifiche nodi trave colonna

Verifiche dei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

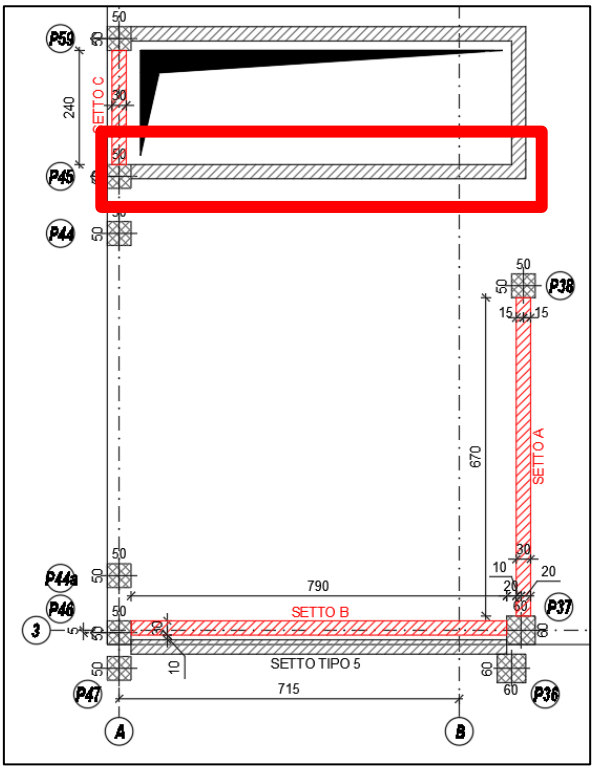
2.1.5.5 Verifiche di gerarchia delle resistenze nei nodi trave pilastro

Verifiche di gerarchia delle resistenze nei nodi trave pilastro non presenti in quanto la verifica è non necessaria per la pilastrata.

3 SETTI ESISTENTI

Le verifiche SLV che si riportano di seguito fanno riferimento ad una sollecitazione sismica pari al 100% di quella prevista dalla normativa.
Come riportato nella relazione principale, la normativa richiede per l'adeguamento il raggiungimento di ζ≥0,80, dove ζ è il rapporto tra l'azione sismica massima sopportabile dalla struttura e l'azione sismica massima che si utilizzerebbe nel progetto di una nuova costruzione.

3.1 SETTO 1

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Verifica dei pannelli

Pannello : Pannello da Filo 5 a Filo 14

Sezione a quota -525
Coordinate dei vertici
      X       Y
-8038.5    15.0
-7438.5    15.0
-7438.5   120.0
-7408.5   120.0
-7408.5    15.0
-7408.5   -15.0
-7408.5  -120.0
-7438.5  -120.0
-7438.5   -15.0
-8038.5   -15.0

Armature verticali
      X       Y    d       X       Y    d       X       Y    d       X       Y    d       X       Y    d
-8024.5    -9.5   10 -8004.5    -9.5   10 -7984.5    -9.5   10 -7964.5    -9.5   10 -7944.5    -9.5   10
-7924.5    -9.5   10 -7904.5    -9.5   10 -7884.5    -9.5   10 -7864.5    -9.5   10 -7844.5    -9.5   10
-7824.5    -9.5   10 -7804.5    -9.5   10 -7784.5    -9.5   10 -7764.5    -9.5   10 -7744.5    -9.5   10
-7724.5    -9.5   10 -7704.5    -9.5   10 -7684.5    -9.5   10 -7664.5    -9.5   10 -7644.5    -9.5   10
-7624.5    -9.5   10 -7604.5    -9.5   10 -7584.5    -9.5   10 -7564.5    -9.5   10 -7544.5    -9.5   10
-7524.5    -9.5   10 -7504.5    -9.5   10 -7484.5    -9.5   10 -7464.5    -9.5   10 -7444.5    -9.5   10
-7424.5    -9.5   10 -8024.5     9.5   10 -8004.5     9.5   10 -7984.5     9.5   10 -7964.5     9.5   10
-7944.5     9.5   10 -7924.5     9.5   10 -7904.5     9.5   10 -7884.5     9.5   10 -7864.5     9.5   10
-7844.5     9.5   10 -7824.5     9.5   10 -7804.5     9.5   10 -7784.5     9.5   10 -7764.5     9.5   10
-7744.5     9.5   10 -7724.5     9.5   10 -7704.5     9.5   10 -7684.5     9.5   10 -7664.5     9.5   10
-7644.5     9.5   10 -7624.5     9.5   10 -7604.5     9.5   10 -7584.5     9.5   10 -7564.5     9.5   10
-7544.5     9.5   10 -7524.5     9.5   10 -7504.5     9.5   10 -7484.5     9.5   10 -7464.5     9.5   10
-7444.5     9.5   10 -7424.5     9.5   10 -8021.0    -9.3   14 -8021.0     9.3   14 -8001.0    -9.3   14
-8001.0     9.3   14 -7981.0    -9.3   14 -7981.0     9.3   14 -7961.0    -9.3   14 -7961.0     9.3   14
-7941.0    -9.3   14 -7941.0     9.3   14 -7921.0    -9.3   14 -7921.0     9.3   14 -7901.0    -9.3   14
-7901.0     9.3   14 -7881.0    -9.3   14 -7881.0     9.3   14 -7861.0    -9.3   14 -7861.0     9.3   14
-7841.0    -9.3   14 -7841.0     9.3   14 -7821.0    -9.3   14 -7821.0     9.3   14 -7801.0    -9.3   14
-7801.0     9.3   14 -7781.0    -9.3   14 -7781.0     9.3   14 -7761.0    -9.3   14 -7761.0     9.3   14
-7741.0    -9.3   14 -7741.0     9.3   14 -7721.0    -9.3   14 -7721.0     9.3   14 -7701.0    -9.3   14
-7701.0     9.3   14 -7681.0    -9.3   14 -7681.0     9.3   14 -7661.0    -9.3   14 -7661.0     9.3   14
```

-7641.0	-9.3	14	-7641.0	9.3	14	-7621.0	-9.3	14	-7621.0	9.3	14	-7601.0	-9.3	14
-7601.0	9.3	14	-7581.0	-9.3	14	-7581.0	9.3	14	-7561.0	-9.3	14	-7561.0	9.3	14
-7541.0	-9.3	14	-7541.0	9.3	14	-7521.0	-9.3	14	-7521.0	9.3	14	-7501.0	-9.3	14
-7501.0	9.3	14	-7481.0	-9.3	14	-7481.0	9.3	14	-7461.0	-9.3	14	-7461.0	9.3	14
-7441.0	-9.3	14	-7441.0	9.3	14	-7421.0	-9.3	14	-7421.0	9.3	14	-7502.5	-9.4	12
-7502.5	9.4	12	-7485.8	-9.4	12	-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12
-7452.4	-9.4	12	-7452.4	9.4	12	-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12
-7419.0	9.4	12	-8025.5	-9.4	12	-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12
-7992.1	-9.4	12	-7992.1	9.4	12	-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12
-7958.7	9.4	12	-7942.0	-9.4	12	-7942.0	9.4	12						

Sezione a quota -345
Coordinate dei vertici

X	Y
-8038.5	15.0
-7438.5	15.0
-7438.5	120.0
-7408.5	120.0
-7408.5	15.0
-7408.5	-15.0
-7408.5	-120.0
-7438.5	-120.0
-7438.5	-15.0
-8038.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota -165
Coordinate dei vertici

X	Y
-8038.5	15.0
-7438.5	15.0
-7438.5	120.0
-7408.5	120.0
-7408.5	15.0
-7408.5	-15.0
-7408.5	-120.0
-7438.5	-120.0
-7438.5	-15.0
-8038.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota -30
Coordinate dei vertici

X	Y
-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0
-7408.5	-145.0
-7438.5	-145.0
-7438.5	-15.0
-8038.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10

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-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota 98
Coordinate dei vertici

X	Y
-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0
-7408.5	-145.0
-7438.5	-145.0
-7438.5	-15.0
-8038.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota 226
Coordinate dei vertici

X	Y
-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0
-7408.5	-121.8
-7438.5	-121.8
-7438.5	-15.0
-8038.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota 246
Coordinate dei vertici

X	Y
-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0
-7408.5	-116.8
-7438.5	-116.8
-7438.5	-15.0
-8038.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12

-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota 291
Coordinate dei vertici

X	Y
-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0
-7408.5	-105.6
-7438.5	-105.6
-7438.5	-15.0
-8038.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota 335
Coordinate dei vertici

X	Y
-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0
-7408.5	-94.5
-7438.5	-94.5
-7438.5	-15.0
-8038.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota 375
Coordinate dei vertici

X	Y
-8038.5	-15.0
-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota 498
Coordinate dei vertici

X	Y
-8038.5	-15.0

-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota 620
Coordinate dei vertici

X	Y
-8038.5	-15.0
-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

Sezione a quota 650
Coordinate dei vertici

X	Y
-8038.5	-15.0
-8038.5	15.0
-7408.5	15.0
-7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8024.5	-9.5	10	-8004.5	-9.5	10	-7984.5	-9.5	10	-7964.5	-9.5	10	-7944.5	-9.5	10
-7924.5	-9.5	10	-7904.5	-9.5	10	-7884.5	-9.5	10	-7864.5	-9.5	10	-7844.5	-9.5	10
-7824.5	-9.5	10	-7804.5	-9.5	10	-7784.5	-9.5	10	-7764.5	-9.5	10	-7744.5	-9.5	10
-7724.5	-9.5	10	-7704.5	-9.5	10	-7684.5	-9.5	10	-7664.5	-9.5	10	-7644.5	-9.5	10
-7624.5	-9.5	10	-7604.5	-9.5	10	-7584.5	-9.5	10	-7564.5	-9.5	10	-7544.5	-9.5	10
-7524.5	-9.5	10	-7504.5	-9.5	10	-7484.5	-9.5	10	-7464.5	-9.5	10	-7444.5	-9.5	10
-7424.5	-9.5	10	-8024.5	9.5	10	-8004.5	9.5	10	-7984.5	9.5	10	-7964.5	9.5	10
-7944.5	9.5	10	-7924.5	9.5	10	-7904.5	9.5	10	-7884.5	9.5	10	-7864.5	9.5	10
-7844.5	9.5	10	-7824.5	9.5	10	-7804.5	9.5	10	-7784.5	9.5	10	-7764.5	9.5	10
-7744.5	9.5	10	-7724.5	9.5	10	-7704.5	9.5	10	-7684.5	9.5	10	-7664.5	9.5	10
-7644.5	9.5	10	-7624.5	9.5	10	-7604.5	9.5	10	-7584.5	9.5	10	-7564.5	9.5	10
-7544.5	9.5	10	-7524.5	9.5	10	-7504.5	9.5	10	-7484.5	9.5	10	-7464.5	9.5	10
-7444.5	9.5	10	-7424.5	9.5	10	-7502.5	-9.4	12	-7502.5	9.4	12	-7485.8	-9.4	12
-7485.8	9.4	12	-7469.1	-9.4	12	-7469.1	9.4	12	-7452.4	-9.4	12	-7452.4	9.4	12
-7435.7	-9.4	12	-7435.7	9.4	12	-7419.0	-9.4	12	-7419.0	9.4	12	-8025.5	-9.4	12
-8025.5	9.4	12	-8008.8	-9.4	12	-8008.8	9.4	12	-7992.1	-9.4	12	-7992.1	9.4	12
-7975.4	-9.4	12	-7975.4	9.4	12	-7958.7	-9.4	12	-7958.7	9.4	12	-7942.0	-9.4	12
-7942.0	9.4	12												

fcd	fctd	Hcr	q.Hcr	hw	Lw	n.p.	hs
271	18	998	333	1378	630	4	333

Verifica a pressoflessione

quota	Mxd	Myd	Ned	Ngrav.	NReale	c.s.	comb
-525	2040	1148556	-83531	-83531	-83531	92.4280	20 SLU
-525	-16258	9543674	-50080	-56870	-50080	71.0218	16 SLV
-525	-5610	4491273	-53965	-56870	-53965	111.0188	16 SLD
-345	7466	1954865	-93063	-93063	-93063	77.1193	20 SLU
-345	2001	23752690	-50639	-62637	-50639	8.9365	16 SLV
-345	3887	10822470	-57508	-62637	-57508	59.2252	16 SLD
-165	8363	4856120	-96289	-96289	-96289	67.1971	20 SLU
-165	11201	43837670	-61327	-64341	-61327	3.4983	16 SLV
-165	8044	20449500	-63056	-64341	-63056	19.4012	16 SLD
-30	-8538	5767424	-87535	-87535	-87535	70.1287	20 SLU
-30	-92661	53401020	-62166	-59232	-62166	2.6055	16 SLV
-30	-42493	24896640	-60498	-59232	-60498	10.0452	16 SLD

98	-18151	5745550	-83341	-83341	-83341	72.9042	20 SLU
98	-560767	28207610	-17852	-55668	-17852	3.7172	12 SLV
98	-118808	18894620	-58102	-55668	-58102	19.3007	16 SLD
226	-47657	6160464	-76760	-76760	-76760	75.0922	20 SLU
226	1517155	-16743820	-75481	-50770	-75481	2.7710	5 SLV
226	633050	-5040299	-61316	-50770	-61316	9.7222	5 SLD
246	-60116	5967358	-77894	-77894	-77894	74.9966	20 SLU
246	1826899	-16341180	-73035	-51518	-73035	2.2830	5 SLV
246	760952	-4943916	-60698	-51518	-60698	7.6246	5 SLD
291	-89117	6067382	-76060	-76060	-76060	75.6132	20 SLU
291	2626705	-14607360	-67884	-50031	-67884	1.6008	5 SLV
291	1092461	-4167370	-57648	-50031	-57648	4.8660	5 SLD
335	-118292	6268084	-71382	-71382	-71382	77.6409	20 SLU
335	3456343	-12119620	-55900	-46388	-55900	1.2257	5 SLV
335	1436546	-3027484	-50438	-46388	-50438	3.5258	5 SLD
375	-120438	3461286	-55262	-55262	-55262	96.0910	18 SLU
375	-3552952	17300370	-29049	-37850	-29049	1.2190	12 SLV
375	-1562376	8686197	-34106	-37850	-34106	3.1978	12 SLD
498	-3091	3366469	-48305	-48305	-48305	125.0226	20 SLU
498	-960725	13295070	-20409	-32122	-20409	4.0607	12 SLV
498	-412387	6924703	-27123	-32122	-27123	15.3319	12 SLD
620	114337	3786595	-37910	-37910	-37910	108.5658	18 SLU
620	1611159	8827766	-9715	-25015	-9715	2.5806	12 SLV
620	728618	5184102	-18473	-25015	-18473	6.8203	12 SLD
650	131426	3720194	-35692	-35692	-35692	104.1299	18 SLU
650	2057052	8180596	-5293	-23302	-5293	2.0307	12 SLV
650	924830	4885537	-15597	-23302	-15597	5.1204	12 SLD

Verifica compressione del diagonale

quota	epsilon	VEd	Vrcd	comb
-525	1.00	-10416	707057	15 SLU
-525	1.00	-48474	707057	16 SLV
-525	1.00	-23666	707057	16 SLD
-345	1.00	-6192	707057	14 SLU
-345	1.00	-57230	707057	12 SLV
-345	1.00	-25884	707057	12 SLD
-165	1.00	-10144	707057	15 SLU
-165	1.00	-60896	707057	12 SLV
-165	1.00	-28815	707057	12 SLD
-30	1.00	-7746	707057	19 SLU
-30	1.00	-139536	707057	3 SLV
-30	1.00	-62502	707057	3 SLD
98	1.00	-7806	707057	19 SLU
98	1.00	-140155	707057	3 SLV
98	1.00	-62786	707057	3 SLD
226	1.00	-7450	707057	19 SLU
226	1.00	-134921	707057	3 SLV
226	1.00	-60398	707057	3 SLD
246	1.00	-7430	707057	19 SLU
246	1.00	-134918	707057	3 SLV
246	1.00	-60393	707057	3 SLD
291	1.00	-7377	707057	19 SLU
291	1.00	-134018	707057	3 SLV
291	1.00	-59990	707057	3 SLD
335	1.00	-7328	707057	19 SLU
335	1.00	-132085	707057	3 SLV
335	1.00	-59151	707057	3 SLD
375	1.00	1351	707057	12 SLU
375	1.00	47458	707057	15 SLV
375	1.00	20607	707057	15 SLD
498	1.00	1410	707057	12 SLU
498	1.00	49867	707057	11 SLV
498	1.00	21659	707057	11 SLD
620	1.00	1541	707057	12 SLU
620	1.00	50381	707057	11 SLV
620	1.00	21941	707057	11 SLD
650	1.00	1551	707057	12 SLU
650	1.00	53628	707057	11 SLV
650	1.00	23339	707057	11 SLD

Verifica trazione del diagonale

quota	alfaS	At	roh	rov	MEdx	MEd	NEd	VEd	VRsd	comb
-525	0.00	171.3	0.0026	0.0091	-566	897014	-77304	-10416	431621	15 SLU
-525	0.00	171.3	0.0026	0.0091	16258	9543674	-50080	-48474	431621	16 SLV
-525	0.00	171.3	0.0026	0.0091	5610	4491273	-53965	-23666	431621	16 SLD
-345	0.00	75.8	0.0026	0.0040	-6915	1668772	-86950	-6192	431621	14 SLU
-345	0.00	75.8	0.0026	0.0040	-29833	11307580	-39608	-57230	431621	12 SLV
-345	0.00	75.8	0.0026	0.0040	-15948	5495257	-52788	-25884	431621	12 SLD
-165	0.00	75.8	0.0026	0.0040	-9646	4796072	-93116	-10144	431621	15 SLU
-165	0.00	75.8	0.0026	0.0040	-121443	22921060	-12622	-60896	431621	12 SLV
-165	0.00	75.8	0.0026	0.0040	-55490	11496710	-42214	-28815	431621	12 SLD
-30	0.00	75.8	0.0026	0.0040	9532	5536869	-85982	-7746	431621	19 SLU
-30	0.00	75.8	0.0026	0.0040	-58305	-37399280	-23059	-139536	431621	3 SLV
-30	0.00	75.8	0.0026	0.0040	-22135	-13970460	-43757	-62502	431621	3 SLD
98	0.00	75.8	0.0026	0.0040	16785	5533003	-81836	-7806	431621	19 SLU
98	0.00	75.8	0.0026	0.0040	72358	-23245560	-24013	-140155	431621	3 SLV
98	0.00	75.8	0.0026	0.0040	36822	-7934010	-42120	-62786	431621	3 SLD
226	0.00	75.8	0.0026	0.0040	42902	5968460	-75298	-7450	431621	19 SLU
226	0.00	75.8	0.0026	0.0040	229968	-9273337	-25657	-134921	431621	3 SLV
226	0.00	75.8	0.0026	0.0040	114626	-1835591	-40013	-60398	431621	3 SLD
246	0.00	75.8	0.0026	0.0040	54346	5774965	-76452	-7430	431621	19 SLU
246	0.00	75.8	0.0026	0.0040	283544	-9149935	-29046	-134918	431621	3 SLV
246	0.00	75.8	0.0026	0.0040	142193	-1858245	-41890	-60393	431621	3 SLD
291	0.00	75.8	0.0026	0.0040	80842	5882349	-74634	-7377	431621	19 SLU
291	0.00	75.8	0.0026	0.0040	328208	-5116962	-31997	-134018	431621	3 SLV
291	0.00	75.8	0.0026	0.0040	171846	-96989	-42297	-59990	431621	3 SLD
335	0.00	75.8	0.0026	0.0040	107145	6091527	-69969	-7328	431621	19 SLU
335	0.00	75.8	0.0026	0.0040	295954	-2281291	-25160	-132085	431621	3 SLV
335	0.00	75.8	0.0026	0.0040	169276	1191273	-37280	-59151	431621	3 SLD
375	0.00	75.8	0.0026	0.0040	114790	3033679	-49379	1351	431621	12 SLU
375	0.00	75.8	0.0026	0.0040	1820936	15238890	-46589	47458	431621	15 SLV
375	0.00	75.8	0.0026	0.0040	821536	7806427	-41618	20607	431621	15 SLD

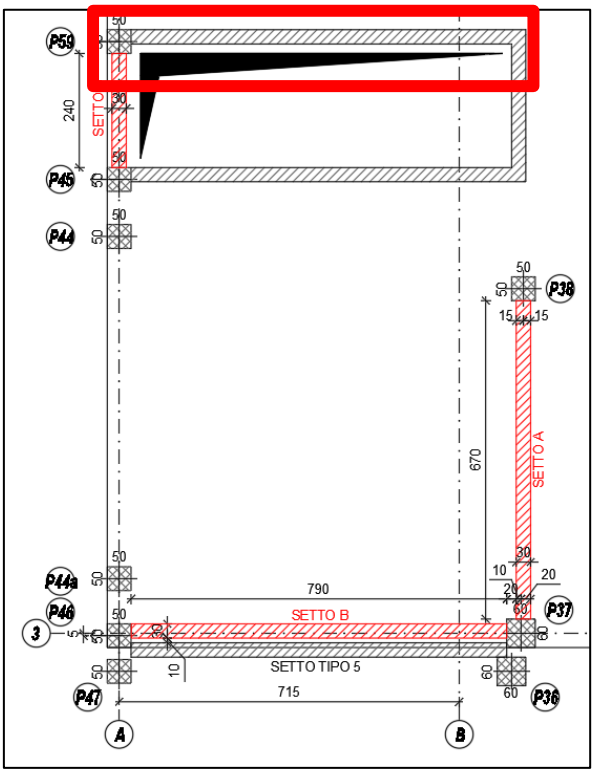
498	0.00	75.8	0.0026	0.0040	3890	2840899	-41910	1410	431621	12	SLU
498	0.00	75.8	0.0026	0.0040	959129	13333780	-20502	49867	431621	11	SLV
498	0.00	75.8	0.0026	0.0040	411721	6940864	-27162	21659	431621	11	SLD
620	0.00	75.8	0.0026	0.0040	-107970	3073533	-33023	1541	431621	12	SLU
620	0.00	75.8	0.0026	0.0040	-1600320	8832334	-9746	50381	431621	11	SLV
620	0.00	75.8	0.0026	0.0040	-724093	5186009	-18486	21941	431621	11	SLD
650	0.00	75.8	0.0026	0.0040	-124364	3000890	-30801	1551	431621	12	SLU
650	0.00	75.8	0.0026	0.0040	-2049617	8177970	-5314	53628	431621	11	SLV
650	0.00	75.8	0.0026	0.0040	-921726	4884441	-15606	23339	431621	11	SLD

Moltiplicatore minimo delle condizioni sismiche per raggiungimento della rottura a taglio 3.499
Taglio trazione diagonale
Tempo di ritorno 1961 anni
PGA 0,3680156
I.R.PGA_TAGLIO 1,298
I.R.TR_TAGLIO 1,347

Moltiplicatore minimo delle condizioni sismiche per raggiungimento della rottura a pressoflessione 1.2022
Tempo di ritorno 1690 anni
PGA 0,3488888
I.R.PGA_PRESSOFLESSIONE 1,230
I.R.TR_PRESSOFLESSIONE 1,267

Indicatori di rischio sismico
Tr_SLV/TrSLV,Rif 1,267
PGASLV/aggancio SLV 1,230

3.2 SETTO 2



Verifica dei pannelli

Pannello : Pannello da (7409;-17844) a (7929;-17844)

Sezione a quota -525
Coordinate dei vertici

X	Y
7408.5	15.0
7928.5	15.0
7928.5	-15.0
7438.5	-15.0
7438.5	-140.0
7408.5	-140.0
7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7423.8	-11.0	20	7423.8	11.0	20	7448.8	-11.0	20
7448.8	11.0	20	7473.8	-11.0	20	7473.8	11.0	20	7498.8	-11.0	20	7498.8	11.0	20
7523.8	-11.0	20	7523.8	11.0	20	7548.8	-11.0	20	7548.8	11.0	20	7573.8	-11.0	20
7573.8	11.0	20	7598.8	-11.0	20	7598.8	11.0	20	7623.8	-11.0	20	7623.8	11.0	20
7648.8	-11.0	20	7648.8	11.0	20	7673.8	-11.0	20	7673.8	11.0	20	7698.8	-11.0	20
7698.8	11.0	20	7723.8	-11.0	20	7723.8	11.0	20	7748.8	-11.0	20	7748.8	11.0	20
7773.8	-11.0	20	7773.8	11.0	20	7798.8	-11.0	20	7798.8	11.0	20	7823.8	-11.0	20
7823.8	11.0	20	7848.8	-11.0	20	7848.8	11.0	20	7873.8	-11.0	20	7873.8	11.0	20
7898.8	-11.0	20	7898.8	11.0	20	7923.8	-11.0	20	7923.8	11.0	20	7834.9	-11.4	12
7834.9	11.4	12	7850.9	-11.4	12	7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12
7882.9	-11.4	12	7882.9	11.4	12	7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12
7914.9	11.4	12	7512.7	-11.4	12	7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12
7544.7	-11.4	12	7544.7	11.4	12	7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12
7576.7	11.4	12	7592.7	-11.4	12	7592.7	11.4	12						

Sezione a quota -345
Coordinate dei vertici

X	Y
7408.5	15.0
7928.5	15.0
7928.5	-15.0
7438.5	-15.0

7438.5	-145.0
7408.5	-145.0
7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota -165
Coordinate dei vertici

X	Y
7408.5	15.0
7928.5	15.0
7928.5	-15.0
7438.5	-15.0
7438.5	-145.0
7408.5	-145.0
7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota -30
Coordinate dei vertici

X	Y
7408.5	15.0
7928.5	15.0
7928.5	-15.0
7438.5	-15.0
7438.5	-145.0
7408.5	-145.0
7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota 98
Coordinate dei vertici

X	Y
7408.5	15.0
7928.5	15.0
7928.5	-15.0
7438.5	-15.0
7438.5	-145.0
7408.5	-145.0
7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota 226

Coordinate dei vertici

X	Y
7408.5	15.0
7928.5	15.0
7928.5	-15.0
7438.5	-15.0
7438.5	-121.8
7408.5	-121.8
7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota 246

Coordinate dei vertici

X	Y
7408.5	15.0
7928.5	15.0
7928.5	-15.0
7438.5	-15.0
7438.5	-116.8
7408.5	-116.8
7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota 291

Coordinate dei vertici

X	Y
7408.5	15.0
7928.5	15.0
7928.5	-15.0
7438.5	-15.0
7438.5	-105.6
7408.5	-105.6
7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10

7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota 335
Coordinate dei vertici

X	Y
7408.5	15.0
7928.5	15.0
7928.5	-15.0
7438.5	-15.0
7438.5	-94.5
7408.5	-94.5
7408.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota 375
Coordinate dei vertici

X	Y
7408.5	-15.0
7408.5	15.0
7928.5	15.0
7928.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota 498
Coordinate dei vertici

X	Y
7408.5	-15.0
7408.5	15.0
7928.5	15.0
7928.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12

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7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota 620
Coordinate dei vertici

X	Y
7408.5	-15.0
7408.5	15.0
7928.5	15.0
7928.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

Sezione a quota 650
Coordinate dei vertici

X	Y
7408.5	-15.0
7408.5	15.0
7928.5	15.0
7928.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
7410.5	-11.5	10	7430.5	-11.5	10	7450.5	-11.5	10	7470.5	-11.5	10	7490.5	-11.5	10
7510.5	-11.5	10	7530.5	-11.5	10	7550.5	-11.5	10	7570.5	-11.5	10	7590.5	-11.5	10
7610.5	-11.5	10	7630.5	-11.5	10	7650.5	-11.5	10	7670.5	-11.5	10	7690.5	-11.5	10
7710.5	-11.5	10	7730.5	-11.5	10	7750.5	-11.5	10	7770.5	-11.5	10	7790.5	-11.5	10
7810.5	-11.5	10	7830.5	-11.5	10	7850.5	-11.5	10	7870.5	-11.5	10	7890.5	-11.5	10
7910.5	-11.5	10	7410.5	11.5	10	7430.5	11.5	10	7450.5	11.5	10	7470.5	11.5	10
7490.5	11.5	10	7510.5	11.5	10	7530.5	11.5	10	7550.5	11.5	10	7570.5	11.5	10
7590.5	11.5	10	7610.5	11.5	10	7630.5	11.5	10	7650.5	11.5	10	7670.5	11.5	10
7690.5	11.5	10	7710.5	11.5	10	7730.5	11.5	10	7750.5	11.5	10	7770.5	11.5	10
7790.5	11.5	10	7810.5	11.5	10	7830.5	11.5	10	7850.5	11.5	10	7870.5	11.5	10
7890.5	11.5	10	7910.5	11.5	10	7834.9	-11.4	12	7834.9	11.4	12	7850.9	-11.4	12
7850.9	11.4	12	7866.9	-11.4	12	7866.9	11.4	12	7882.9	-11.4	12	7882.9	11.4	12
7898.9	-11.4	12	7898.9	11.4	12	7914.9	-11.4	12	7914.9	11.4	12	7512.7	-11.4	12
7512.7	11.4	12	7528.7	-11.4	12	7528.7	11.4	12	7544.7	-11.4	12	7544.7	11.4	12
7560.7	-11.4	12	7560.7	11.4	12	7576.7	-11.4	12	7576.7	11.4	12	7592.7	-11.4	12
7592.7	11.4	12												

fcd	fctd	Hcr	q.Hcr	hw	Lw	n.p.	hs
271	18	998	333	1378	520	4	333

Verifica a pressoflessione

quota	Mxd	Myd	Ned	Ngrav.	NReale	c.s.	comb
-525	144007	-818217	-91311	-91311	-91311	65.5365	20 SLU
-525	386377	2205374	-113674	-61880	-113674	36.3609	7 SLV
-525	238731	-714875	-85920	-61880	-85920	63.8233	12 SLD
-345	27298	-1378732	-96201	-96201	-96201	61.7958	20 SLU
-345	-165986	15285700	34322	-64414	34322	3.3020	1 SLV
-345	100086	-7721317	-106676	-64414	-106676	41.0845	16 SLD
-165	-25947	-3598370	-97558	-97558	-97558	56.5593	20 SLU
-165	-65722	24983280	101334	-64609	101334	1.5644	1 SLV
-165	-38762	9416443	6418	-64609	6418	6.6581	1 SLD
-30	-6585	-4725473	-94842	-94842	-94842	54.7041	20 SLU
-30	39858	28520220	147000	-63001	147000	1.2049	1 SLV
-30	13647	10486450	26882	-63001	26882	4.5704	1 SLD
98	4114	-3709071	-88323	-88323	-88323	61.1945	20 SLU
98	-284445	14058120	103542	-58022	103542	1.9688	1 SLV
98	-42588	7194857	-374	-58022	-374	10.1402	3 SLD
226	30586	-3174656	-78902	-78902	-78902	68.4233	20 SLU
226	-89755	10513870	37067	-51437	37067	3.9822	3 SLV
226	419973	4226215	-50246	-51437	-50246	13.8386	7 SLD
246	37929	-3098259	-78560	-78560	-78560	68.7294	20 SLU
246	1226676	12736330	-47958	-51232	-47958	3.1174	7 SLV
246	538498	4434574	-49844	-51232	-49844	10.2480	7 SLD
291	55389	-2939367	-75645	-75645	-75645	69.9240	20 SLU
291	1919192	12345610	-46173	-49110	-46173	1.9757	7 SLV
291	949873	2293636	-62510	-49110	-62510	5.9491	11 SLD
335	66495	-3004779	-69786	-69786	-69786	72.8383	20 SLU
335	2740275	10917150	-42864	-44828	-42864	1.4077	7 SLV
335	1196225	3718095	-44003	-44828	-44003	3.8859	7 SLD
375	64090	-1160539	-55028	-55028	-55028	97.4566	20 SLU

375	-2622156	-10872810	-23612	-36701	-23612	1.4837	6 SLV
375	1217275	5011043	-35194	-36701	-35194	4.4145	7 SLD
498	36186	-1424418	-47992	-47992	-47992	111.7441	20 SLU
498	-908605	-10650820	-25104	-31520	-25104	4.2528	10 SLV
498	-375858	-5023895	-28781	-31520	-28781	18.7647	10 SLD
620	6871	-2417373	-37484	-37484	-37484	128.7379	20 SLU
620	1108768	-7136915	-13488	-24306	-13488	3.3988	10 SLV
620	478511	-3858069	-19667	-24306	-19667	11.0613	10 SLD
650	-6217	-2580488	-35019	-35019	-35019	131.9678	20 SLU
650	1563423	-5912155	-4969	-22467	-4969	2.3521	6 SLV
650	668571	-3393840	-14972	-22467	-14972	6.6958	6 SLD

Verifica compressione del diagonale

quota	epsilon	VEd	Vrcd	comb
-525	1.00	-9776	628125	17 SLU
-525	1.00	-23608	628125	16 SLV
-525	1.00	-13903	628125	16 SLD
-345	1.00	-6808	583603	16 SLU
-345	1.00	-33516	583603	16 SLV
-345	1.00	-17134	583603	16 SLD
-165	1.00	-6163	628125	16 SLU
-165	1.00	-69270	628125	16 SLV
-165	1.00	-32201	628125	16 SLD
-30	1.00	-8545	583603	18 SLU
-30	1.00	-206489	583603	16 SLV
-30	1.00	-91808	583603	16 SLD
98	1.00	-8520	583602	18 SLU
98	1.00	-204261	583602	16 SLV
98	1.00	-90838	583602	16 SLD
226	1.00	-7997	583602	18 SLU
226	1.00	-200056	583602	16 SLV
226	1.00	-88849	583602	16 SLD
246	1.00	-7904	583602	18 SLU
246	1.00	-198788	583602	16 SLV
246	1.00	-88269	583602	16 SLD
291	1.00	-7790	583602	18 SLU
291	1.00	-196664	583602	16 SLV
291	1.00	-87315	583602	16 SLD
335	1.00	-7486	583602	20 SLU
335	1.00	-192634	583602	16 SLV
335	1.00	-85468	583602	16 SLD
375	1.00	874	583602	12 SLU
375	1.00	50981	583602	7 SLV
375	1.00	21822	583602	7 SLD
498	1.00	1418	583602	12 SLU
498	1.00	57524	583602	7 SLV
498	1.00	24858	583602	7 SLD
620	1.00	1650	583602	12 SLU
620	1.00	54919	583602	7 SLV
620	1.00	23856	583602	7 SLD
650	1.00	1456	583602	12 SLU
650	1.00	55725	583602	7 SLV
650	1.00	24086	583602	7 SLD

Verifica trazione del diagonale

quota	alfaS	At	roh	rov	MEdx	MEd	NEd	VEd	VRsd	comb
-525	0.00	199.9	0.0046	0.0128	-102332	-865777	-82076	-9776	566878	17 SLU
-525	0.00	199.9	0.0046	0.0128	-253960	-5509278	-84954	-23608	566878	16 SLV
-525	0.00	199.9	0.0046	0.0128	-166074	-2639322	-71762	-13903	566878	16 SLD
-345	0.00	68.0	0.0040	0.0044	-15969	-1019549	-81603	-6808	538663	16 SLU
-345	0.00	68.0	0.0040	0.0044	-206545	-16935690	-163151	-33516	538663	16 SLV
-345	0.00	68.0	0.0040	0.0044	-100086	-7721317	-106676	-17134	538663	16 SLD
-165	0.00	68.0	0.0046	0.0044	19828	-2676241	-81363	-6163	566878	16 SLU
-165	0.00	68.0	0.0046	0.0044	-28616	-29450360	-230553	-69270	566878	16 SLV
-165	0.00	68.0	0.0046	0.0044	-1656	-13883530	-135636	-32201	566878	16 SLD
-30	0.00	68.0	0.0033	0.0044	2830	-4488324	-92016	-8545	447461	18 SLU
-30	0.00	68.0	0.0033	0.0044	52135	-34535770	-273002	-206489	447461	16 SLV
-30	0.00	68.0	0.0033	0.0044	25924	-16502010	-152884	-91808	447461	16 SLD
98	0.00	68.0	0.0026	0.0044	-6486	-3465787	-85515	-8520	356258	18 SLU
98	0.00	68.0	0.0026	0.0044	-287543	-18639690	-219585	-204261	356258	16 SLV
98	0.00	68.0	0.0026	0.0044	-124286	-9289046	-127175	-90838	356258	16 SLD
226	0.00	68.0	0.0026	0.0044	-31681	-2878836	-76422	-7997	356258	18 SLU
226	0.00	68.0	0.0026	0.0044	-767416	-7308165	-155798	-200056	356258	16 SLV
226	0.00	68.0	0.0026	0.0044	-339616	-4185950	-96117	-88849	356258	16 SLD
246	0.00	68.0	0.0026	0.0044	-38900	-2793439	-76117	-7904	356258	18 SLU
246	0.00	68.0	0.0026	0.0044	-848140	-8966001	-131237	-198788	356258	16 SLV
246	0.00	68.0	0.0026	0.0044	-376737	-4859516	-85488	-88269	356258	16 SLD
291	0.00	68.0	0.0026	0.0044	-56154	-2622551	-73251	-7790	356258	18 SLU
291	0.00	68.0	0.0026	0.0044	-1068045	-6233539	-111799	-196664	356258	16 SLV
291	0.00	68.0	0.0026	0.0044	-477117	-3617830	-75965	-87315	356258	16 SLD
335	0.00	68.0	0.0026	0.0044	-66495	-3004779	-69786	-7486	356258	20 SLU
335	0.00	68.0	0.0026	0.0044	-905938	-2202787	-82043	-192634	356258	16 SLV
335	0.00	68.0	0.0026	0.0044	-410669	-1898820	-60761	-85468	356258	16 SLD
375	0.00	68.0	0.0026	0.0044	-62843	-887723	-46443	874	356258	12 SLU
375	0.00	68.0	0.0026	0.0044	-2791795	12599350	-33198	50981	356258	7 SLV
375	0.00	68.0	0.0026	0.0044	-1217275	5011043	-35194	21822	356258	7 SLD
498	0.00	68.0	0.0026	0.0044	-38991	-1063583	-40127	1418	356258	12 SLU
498	0.00	68.0	0.0026	0.0044	-955024	9039587	-37936	57524	356258	7 SLV
498	0.00	68.0	0.0026	0.0044	-422277	3412661	-34259	24858	356258	7 SLD
620	0.00	68.0	0.0026	0.0044	-12607	-1776637	-31550	1650	356258	12 SLU
620	0.00	68.0	0.0026	0.0044	1094242	4340308	-35123	54919	356258	7 SLV
620	0.00	68.0	0.0026	0.0044	463985	1061462	-28945	23856	356258	7 SLD
650	0.00	68.0	0.0026	0.0044	1148	-1899717	-29336	1456	356258	12 SLU
650	0.00	68.0	0.0026	0.0044	1544172	2828609	-39785	55725	356258	7 SLV

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  650      0.00  68.0  0.0026  0.0044     660983     353932     -29893     24086    356258 7 SLD
```
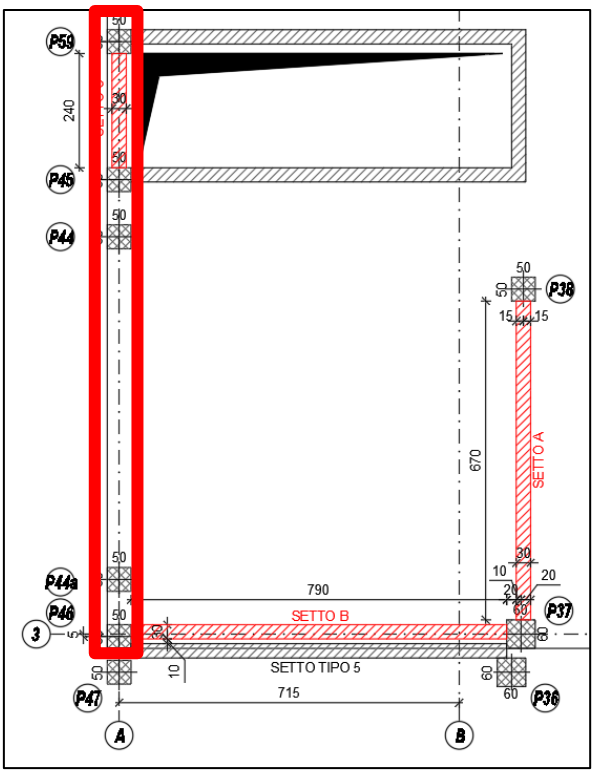

```
Moltiplicatore minimo delle condizioni sismiche per raggiungimento della rottura a taglio 1.7776
Taglio trazione diagonale
Tempo di ritorno  1961  anni
PGA  0,3680156
I.R.PGA_TAGLIO 1,298
I.R.TR_TAGLIO 1,347

Moltiplicatore minimo delle condizioni sismiche per raggiungimento della rottura a pressoflessione 1.1542
Tempo di ritorno  1485  anni
PGA  0,3330211
I.R.PGA_PRESSOFLESSIONE 1,175
I.R.TR_PRESSOFLESSIONE 1,202


Indicatori di rischio sismico
Tr_SLV/TrSLV,Rif 1,202
PGASLV/aggancio SLV 1,175
```

3.3 SETTO 3




```
Verifica dei pannelli

Pannello : Pannello da Filo 5 a Filo 6

Sezione a quota -525
Coordinate dei vertici
      X        Y
-18149.5    15.0
-17829.5    15.0
-17829.5   -15.0
-17829.5  -140.0
-17859.5  -140.0
-17859.5   -15.0
-18119.5   -15.0
-18119.5  -140.0
-18149.5  -140.0
-18149.5   -15.0

Armature verticali
      X        Y    d        X        Y    d        X        Y    d        X        Y    d        X        Y    d
-18142.0    -9.5   10 -18122.0    -9.5   10 -18102.0    -9.5   10 -18082.0    -9.5   10 -18062.0    -9.5   10
-18042.0    -9.5   10 -18022.0    -9.5   10 -18002.0    -9.5   10 -17982.0    -9.5   10 -17962.0    -9.5   10
-17942.0    -9.5   10 -17922.0    -9.5   10 -17902.0    -9.5   10 -17882.0    -9.5   10 -17862.0    -9.5   10
-17842.0    -9.5   10 -18142.0     9.5   10 -18122.0     9.5   10 -18102.0     9.5   10 -18082.0     9.5   10
-18062.0     9.5   10 -18042.0     9.5   10 -18022.0     9.5   10 -18002.0     9.5   10 -17982.0     9.5   10
-17962.0     9.5   10 -17942.0     9.5   10 -17922.0     9.5   10 -17902.0     9.5   10 -17882.0     9.5   10
-17862.0     9.5   10 -17842.0     9.5   10 -18142.0    -9.3   14 -18142.0     9.3   14 -18122.0    -9.3   14
-18122.0     9.3   14 -18102.0    -9.3   14 -18102.0     9.3   14 -18082.0    -9.3   14 -18082.0     9.3   14
```

-18062.0	-9.3	14	-18062.0	9.3	14	-18042.0	-9.3	14	-18042.0	9.3	14	-18022.0	-9.3	14
-18022.0	9.3	14	-18002.0	-9.3	14	-18002.0	9.3	14	-17982.0	-9.3	14	-17982.0	9.3	14
-17962.0	-9.3	14	-17962.0	9.3	14	-17942.0	-9.3	14	-17942.0	9.3	14	-17922.0	-9.3	14
-17922.0	9.3	14	-17902.0	-9.3	14	-17902.0	9.3	14	-17882.0	-9.3	14	-17882.0	9.3	14
-17862.0	-9.3	14	-17862.0	9.3	14	-17842.0	-9.3	14	-17842.0	9.3	14			

Sezione a quota -345
Coordinate dei vertici

X	Y
-18149.5	15.0
-17829.5	15.0
-17829.5	-15.0
-17829.5	-180.0
-17859.5	-180.0
-17859.5	-15.0
-18119.5	-15.0
-18119.5	-180.0
-18149.5	-180.0
-18149.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-18142.0	-9.5	10	-18122.0	-9.5	10	-18102.0	-9.5	10	-18082.0	-9.5	10	-18062.0	-9.5	10
-18042.0	-9.5	10	-18022.0	-9.5	10	-18002.0	-9.5	10	-17982.0	-9.5	10	-17962.0	-9.5	10
-17942.0	-9.5	10	-17922.0	-9.5	10	-17902.0	-9.5	10	-17882.0	-9.5	10	-17862.0	-9.5	10
-17842.0	-9.5	10	-18142.0	9.5	10	-18122.0	9.5	10	-18102.0	9.5	10	-18082.0	9.5	10
-18062.0	9.5	10	-18042.0	9.5	10	-18022.0	9.5	10	-18002.0	9.5	10	-17982.0	9.5	10
-17962.0	9.5	10	-17942.0	9.5	10	-17922.0	9.5	10	-17902.0	9.5	10	-17882.0	9.5	10
-17862.0	9.5	10	-17842.0	9.5	10									

Sezione a quota -165
Coordinate dei vertici

X	Y
-18149.5	15.0
-17829.5	15.0
-17829.5	-15.0
-17829.5	-135.0
-17859.5	-135.0
-17859.5	-15.0
-18119.5	-15.0
-18119.5	-135.0
-18149.5	-135.0
-18149.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-18142.0	-9.5	10	-18122.0	-9.5	10	-18102.0	-9.5	10	-18082.0	-9.5	10	-18062.0	-9.5	10
-18042.0	-9.5	10	-18022.0	-9.5	10	-18002.0	-9.5	10	-17982.0	-9.5	10	-17962.0	-9.5	10
-17942.0	-9.5	10	-17922.0	-9.5	10	-17902.0	-9.5	10	-17882.0	-9.5	10	-17862.0	-9.5	10
-17842.0	-9.5	10	-18142.0	9.5	10	-18122.0	9.5	10	-18102.0	9.5	10	-18082.0	9.5	10
-18062.0	9.5	10	-18042.0	9.5	10	-18022.0	9.5	10	-18002.0	9.5	10	-17982.0	9.5	10
-17962.0	9.5	10	-17942.0	9.5	10	-17922.0	9.5	10	-17902.0	9.5	10	-17882.0	9.5	10
-17862.0	9.5	10	-17842.0	9.5	10									

Sezione a quota -30
Coordinate dei vertici

X	Y
-18149.5	15.0
-17829.5	15.0
-17829.5	-15.0
-17829.5	-101.3
-17859.5	-101.3
-17859.5	-15.0
-18119.5	-15.0
-18119.5	-101.3
-18149.5	-101.3
-18149.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-18142.0	-9.5	10	-18122.0	-9.5	10	-18102.0	-9.5	10	-18082.0	-9.5	10	-18062.0	-9.5	10
-18042.0	-9.5	10	-18022.0	-9.5	10	-18002.0	-9.5	10	-17982.0	-9.5	10	-17962.0	-9.5	10
-17942.0	-9.5	10	-17922.0	-9.5	10	-17902.0	-9.5	10	-17882.0	-9.5	10	-17862.0	-9.5	10
-17842.0	-9.5	10	-18142.0	9.5	10	-18122.0	9.5	10	-18102.0	9.5	10	-18082.0	9.5	10
-18062.0	9.5	10	-18042.0	9.5	10	-18022.0	9.5	10	-18002.0	9.5	10	-17982.0	9.5	10
-17962.0	9.5	10	-17942.0	9.5	10	-17922.0	9.5	10	-17902.0	9.5	10	-17882.0	9.5	10
-17862.0	9.5	10	-17842.0	9.5	10									

Sezione a quota 98
Coordinate dei vertici

X	Y
-18149.5	15.0
-17829.5	15.0
-17829.5	-15.0
-17829.5	-69.3
-17859.5	-69.3
-17859.5	-15.0
-18119.5	-15.0
-18119.5	-69.3
-18149.5	-69.3
-18149.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d

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architettura.ingegneria

-18142.0	-9.5	10	-18122.0	-9.5	10	-18102.0	-9.5	10	-18082.0	-9.5	10	-18062.0	-9.5	10
-18042.0	-9.5	10	-18022.0	-9.5	10	-18002.0	-9.5	10	-17982.0	-9.5	10	-17962.0	-9.5	10
-17942.0	-9.5	10	-17922.0	-9.5	10	-17902.0	-9.5	10	-17882.0	-9.5	10	-17862.0	-9.5	10
-17842.0	-9.5	10	-18142.0	9.5	10	-18122.0	9.5	10	-18102.0	9.5	10	-18082.0	9.5	10
-18062.0	9.5	10	-18042.0	9.5	10	-18022.0	9.5	10	-18002.0	9.5	10	-17982.0	9.5	10
-17962.0	9.5	10	-17942.0	9.5	10	-17922.0	9.5	10	-17902.0	9.5	10	-17882.0	9.5	10
-17862.0	9.5	10	-17842.0	9.5	10									

Sezione a quota 226
Coordinate dei vertici

X	Y
-18149.5	15.0
-17829.5	15.0
-17829.5	-15.0
-17829.5	-37.3
-17859.5	-37.3
-17859.5	-15.0
-18119.5	-15.0
-18119.5	-37.3
-18149.5	-37.3
-18149.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-18142.0	-9.5	10	-18122.0	-9.5	10	-18102.0	-9.5	10	-18082.0	-9.5	10	-18062.0	-9.5	10
-18042.0	-9.5	10	-18022.0	-9.5	10	-18002.0	-9.5	10	-17982.0	-9.5	10	-17962.0	-9.5	10
-17942.0	-9.5	10	-17922.0	-9.5	10	-17902.0	-9.5	10	-17882.0	-9.5	10	-17862.0	-9.5	10
-17842.0	-9.5	10	-18142.0	9.5	10	-18122.0	9.5	10	-18102.0	9.5	10	-18082.0	9.5	10
-18062.0	9.5	10	-18042.0	9.5	10	-18022.0	9.5	10	-18002.0	9.5	10	-17982.0	9.5	10
-17962.0	9.5	10	-17942.0	9.5	10	-17922.0	9.5	10	-17902.0	9.5	10	-17882.0	9.5	10
-17862.0	9.5	10	-17842.0	9.5	10									

Sezione a quota 246
Coordinate dei vertici

X	Y
-18149.5	15.0
-17829.5	15.0
-17829.5	-15.0
-17829.5	-32.3
-17859.5	-32.3
-17859.5	-15.0
-18119.5	-15.0
-18119.5	-32.3
-18149.5	-32.3
-18149.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-18142.0	-9.5	10	-18122.0	-9.5	10	-18102.0	-9.5	10	-18082.0	-9.5	10	-18062.0	-9.5	10
-18042.0	-9.5	10	-18022.0	-9.5	10	-18002.0	-9.5	10	-17982.0	-9.5	10	-17962.0	-9.5	10
-17942.0	-9.5	10	-17922.0	-9.5	10	-17902.0	-9.5	10	-17882.0	-9.5	10	-17862.0	-9.5	10
-17842.0	-9.5	10	-18142.0	9.5	10	-18122.0	9.5	10	-18102.0	9.5	10	-18082.0	9.5	10
-18062.0	9.5	10	-18042.0	9.5	10	-18022.0	9.5	10	-18002.0	9.5	10	-17982.0	9.5	10
-17962.0	9.5	10	-17942.0	9.5	10	-17922.0	9.5	10	-17902.0	9.5	10	-17882.0	9.5	10
-17862.0	9.5	10	-17842.0	9.5	10									

Sezione a quota 291
Coordinate dei vertici

X	Y
-18149.5	-15.0
-18149.5	15.0
-17829.5	15.0
-17829.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-18142.0	-9.5	10	-18122.0	-9.5	10	-18102.0	-9.5	10	-18082.0	-9.5	10	-18062.0	-9.5	10
-18042.0	-9.5	10	-18022.0	-9.5	10	-18002.0	-9.5	10	-17982.0	-9.5	10	-17962.0	-9.5	10
-17942.0	-9.5	10	-17922.0	-9.5	10	-17902.0	-9.5	10	-17882.0	-9.5	10	-17862.0	-9.5	10
-17842.0	-9.5	10	-18142.0	9.5	10	-18122.0	9.5	10	-18102.0	9.5	10	-18082.0	9.5	10
-18062.0	9.5	10	-18042.0	9.5	10	-18022.0	9.5	10	-18002.0	9.5	10	-17982.0	9.5	10
-17962.0	9.5	10	-17942.0	9.5	10	-17922.0	9.5	10	-17902.0	9.5	10	-17882.0	9.5	10
-17862.0	9.5	10	-17842.0	9.5	10									

Sezione a quota 335
Coordinate dei vertici

X	Y
-18149.5	-15.0
-18149.5	15.0
-17829.5	15.0
-17829.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-18142.0	-9.5	10	-18122.0	-9.5	10	-18102.0	-9.5	10	-18082.0	-9.5	10	-18062.0	-9.5	10
-18042.0	-9.5	10	-18022.0	-9.5	10	-18002.0	-9.5	10	-17982.0	-9.5	10	-17962.0	-9.5	10
-17942.0	-9.5	10	-17922.0	-9.5	10	-17902.0	-9.5	10	-17882.0	-9.5	10	-17862.0	-9.5	10
-17842.0	-9.5	10	-18142.0	9.5	10	-18122.0	9.5	10	-18102.0	9.5	10	-18082.0	9.5	10
-18062.0	9.5	10	-18042.0	9.5	10	-18022.0	9.5	10	-18002.0	9.5	10	-17982.0	9.5	10
-17962.0	9.5	10	-17942.0	9.5	10	-17922.0	9.5	10	-17902.0	9.5	10	-17882.0	9.5	10
-17862.0	9.5	10	-17842.0	9.5	10									

Sezione a quota -165 nelle combinazioni SLV
c.s. = 0.96693 <!! 1 comb 14

c.s. = 0.85968 <!! 1 comb 15
c.s. = 0.81844 <!! 1 comb 16
Sezione a quota -30 nelle combinazioni SLV
c.s. = 0.94698 <!! 1 comb 14
c.s. = 0.83344 <!! 1 comb 15
c.s. = 0.79577 <!! 1 comb 16
Sezione a quota 98 nelle combinazioni SLV
c.s. = 0.97835 <!! 1 comb 16

fcd	fctd	Hcr	q.Hcr	hw	Lw	n.p.	hs
118	11	985	320	1040	320	3	340

Verifica a pressoflessione

quota	Mxd	Myd	Ned	Ngrav.	NReale	c.s.	comb	
-525	87567	-37026	-53384	-53384	-53384	31.1227	20 SLU	
-525	-44379	34311	25635	-36850	25635	12.4858	14 SLV	
-525	105825	-48454	-63595	-36850	-63595	26.0678	3 SLD	
-345	-7169	52133	-48043	-48043	-48043	35.2628	20 SLU	
-345	-41016	-2734424	56890	-33202	56890	1.4969	16 SLV	
-345	-20220	-1144012	5357	-33202	5357	8.4749	16 SLD	
-165	-12345	78309	-35287	-35287	-35287	48.3412	20 SLU	
-165	-104013	-5916723	98157	-24886	98157	0.8184	16 SLV	***
-165	-49177	-2486957	27777	-24886	27777	2.5458	16 SLD	
-30	-7029	-229362	-29100	-29100	-29100	56.5329	20 SLU	
-30	-96680	-5050114	107644	-20529	107644	0.7958	16 SLV	***
-30	-43886	-2230861	34339	-20529	34339	2.2901	16 SLD	
98	-7962	-266029	-23695	-23695	-23695	68.4067	20 SLU	
98	-50276	-2468903	98108	-16574	98108	0.9783	16 SLV	***
98	-24363	-1147759	32517	-16574	32517	2.7952	16 SLD	
226	-4256	-246257	-13115	-13115	-13115	123.4611	18 SLU	
226	-15924	1295010	78700	-9511	78700	1.2401	14 SLV	
226	-8372	469700	28249	-9511	28249	3.4516	14 SLD	
246	-3791	-254014	-11393	-11393	-11393	140.9737	20 SLU	
246	-18770	200999	60844	-8155	60844	1.7457	14 SLV	
246	-9650	-113859	21394	-8155	21394	5.0211	16 SLD	
291	-2116	-162687	-8538	-8538	-8538	171.0211	20 SLU	
291	553	1781985	44090	-6068	44090	1.9437	16 SLV	
291	-490	698515	15403	-6068	15403	5.4270	16 SLD	
335	-496	-61281	-4296	-4296	-4296	339.8649	20 SLU	
335	13498	1907152	19038	-3043	19038	3.4444	16 SLV	
335	5646	789684	6410	-3043	6410	9.3764	16 SLD	

Verifica compressione del diagonale

quota	epsilon	VEd	Vrcd	comb
-525	1.00	-11259	359140	20 SLU
-525	1.00	-28204	359140	9 SLV
-525	1.00	-16306	359140	9 SLD
-345	1.00	-6805	359140	20 SLU
-345	1.00	-25243	359140	10 SLV
-345	1.00	-13292	359140	10 SLD
-165	1.00	-2981	359140	15 SLU
-165	1.00	-24709	359140	14 SLV
-165	1.00	-11527	359140	14 SLD
-30	1.00	-2937	359140	14 SLU
-30	1.00	-103722	359140	16 SLV
-30	1.00	-45326	359140	16 SLD
98	1.00	-3038	359139	19 SLU
98	1.00	-109302	359139	16 SLV
98	1.00	-47747	359139	16 SLD
226	1.00	-4025	359139	19 SLU
226	1.00	-122629	359139	16 SLV
226	1.00	-53816	359139	16 SLD
246	1.00	-4310	186092	19 SLU
246	1.00	-129067	186092	16 SLV
246	1.00	-56668	186092	16 SLD
291	1.00	-4570	186092	15 SLU
291	1.00	-146158	186092	12 SLV
291	1.00	-64063	186092	12 SLD
335	1.00	-3103	180608	15 SLU
335	1.00	-109934	180608	12 SLV
335	1.00	-48016	180608	12 SLD

Verifica trazione del diagonale

quota	alfaS	At	roh	rov	MEdx	MEd	NEd	VEd	VRsd	comb
-525	0.00	74.4	0.0026	0.0077	-87567	-37026	-53384	-11259	219236	20 SLU
-525	0.00	74.4	0.0026	0.0077	7123	988914	57	-28204	219236	9 SLV
-525	0.00	74.4	0.0026	0.0077	-31712	410152	-21051	-16306	219236	9 SLD
-345	0.00	25.1	0.0026	0.0026	7169	52133	-48043	-6805	219236	20 SLU
-345	0.00	25.1	0.0026	0.0026	11467	2115810	4486	-25243	219236	10 SLV
-345	0.00	25.1	0.0026	0.0026	7568	932990	-17074	-13292	219236	10 SLD
-165	0.00	25.1	0.0026	0.0026	13384	110022	-33649	-2981	219236	15 SLU
-165	0.00	25.1	0.0026	0.0026	95573	-2872378	96845	-24709	219236	14 SLV
-165	0.00	25.1	0.0026	0.0026	45568	-1183354	27218	-11527	219236	14 SLD
-30	0.00	25.1	0.0026	0.0026	7206	-144192	-27358	-2937	219236	14 SLU
-30	0.00	25.1	0.0026	0.0026	96680	-5050114	107644	-103722	219236	16 SLV
-30	0.00	25.1	0.0026	0.0026	43886	-2230861	34339	-45326	219236	16 SLD
98	0.00	25.1	0.0026	0.0026	7776	-245909	-23584	-3038	219235	19 SLU
98	0.00	25.1	0.0026	0.0026	50276	-2468903	98108	-109302	219235	16 SLV
98	0.00	25.1	0.0026	0.0026	24363	-1147759	32517	-47747	219235	16 SLD
226	0.00	25.1	0.0026	0.0026	4387	-207994	-13184	-4025	219235	19 SLU
226	0.00	25.1	0.0026	0.0026	14836	447321	78476	-122629	219235	16 SLV
226	0.00	25.1	0.0026	0.0026	7906	105697	28151	-53816	219235	16 SLD
246	0.00	25.1	0.0026	0.0026	3686	-240811	-11338	-4310	166619	19 SLU

246	0.00	25.1	0.0026	0.0026	19451	-44679	60878	-129067	166619	16	SLV
246	0.00	25.1	0.0026	0.0026	9650	-113859	21394	-56668	166619	16	SLD
291	0.00	25.1	0.0026	0.0026	2254	-109145	-7905	-4570	166619	15	SLU
291	0.00	25.1	0.0026	0.0026	-970	2101649	8640	-146158	166619	12	SLV
291	0.00	25.1	0.0026	0.0026	304	835940	223	-64063	166619	12	SLD
335	0.00	25.1	0.0023	0.0026	555	-30773	-3978	-3103	175359	15	SLU
335	0.00	25.1	0.0023	0.0026	-5487	2479214	3278	-109934	175359	12	SLV
335	0.00	25.1	0.0023	0.0026	-2211	1034625	-339	-48016	175359	12	SLD

Moltiplicatore minimo delle condizioni sismiche per raggiungimento della rottura a taglio 1.14
Taglio trazione diagonale
Tempo di ritorno 1428 anni
PGA 0,32835
I.R.PGA_TAGLIO 1,158
I.R.TR_TAGLIO 1,182

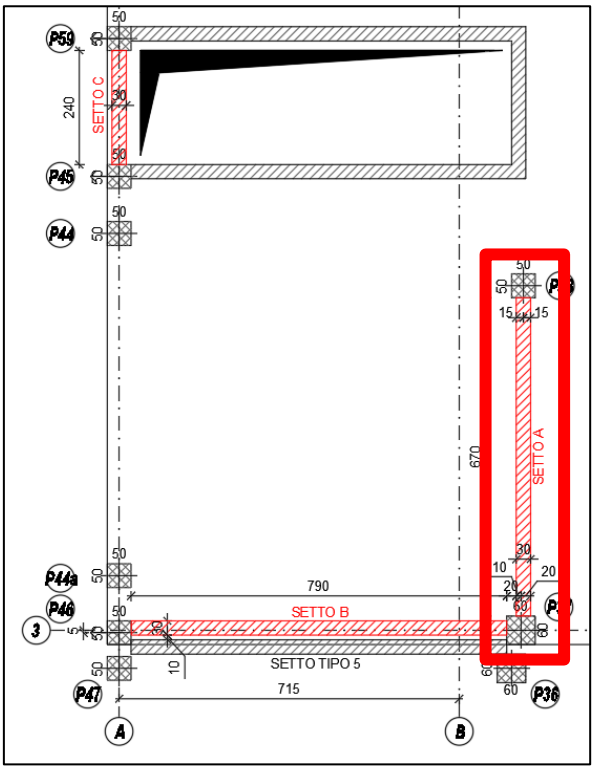
Moltiplicatore minimo delle condizioni sismiche per raggiungimento della rottura a pressoflessione 0.8203
Tempo di ritorno 565 anni
PGA 0,2352721
I.R.PGA_PRESSOFLESSIONE 0,830
I.R.TR_PRESSOFLESSIONE 0,808

Indicatori di rischio sismico
Tr_SLV/TrSLV,Rif 0,808
PGASLV/aggancio SLV 0,830

4 SETTI ESISTENTI

Le verifiche SLV che si riportano di seguito fanno riferimento ad una sollecitazione sismica pari al 100% di quella prevista dalla normativa.
Come riportato nella relazione principale, la normativa richiede per l'adeguamento il raggiungimento di ζ≥0,80, dove ζ è il rapporto tra l'azione sismica massima sopportabile dalla struttura e l'azione sismica massima che si utilizzerebbe nel progetto di una nuova costruzione.

4.1 SETTO A




```
Verifica dei pannelli

Pannello : Pannello da Filo P16 a Filo P15

Sezione a quota -525
Coordinate dei vertici
      X       Y
18364.5    15.0
19104.5    15.0
19104.6   -15.0
19105.3  -140.0
19075.3  -140.0
19074.6   -15.0
18364.5   -15.0

Armature verticali
      X       Y    d       X       Y    d       X       Y    d       X       Y    d       X       Y    d
18374.5    -9.5   10 18394.5    -9.5   10 18414.5    -9.5   10 18434.5    -9.5   10 18454.5    -9.5   10
18474.5    -9.5   10 18494.5    -9.5   10 18514.5    -9.5   10 18534.5    -9.5   10 18554.5    -9.5   10
18574.5    -9.5   10 18594.5    -9.5   10 18614.5    -9.5   10 18634.5    -9.5   10 18654.5    -9.5   10
18674.5    -9.5   10 18694.5    -9.5   10 18714.5    -9.5   10 18734.5    -9.5   10 18754.5    -9.5   10
18774.5    -9.5   10 18794.5    -9.5   10 18814.5    -9.5   10 18834.5    -9.5   10 18854.5    -9.5   10
18874.5    -9.5   10 18894.5    -9.5   10 18914.5    -9.5   10 18934.5    -9.5   10 18954.5    -9.5   10
18974.5    -9.5   10 18994.5    -9.5   10 19014.5    -9.5   10 19034.5    -9.5   10 19054.5    -9.5   10
19074.5    -9.5   10 19094.5    -9.5   10 18374.5     9.5   10 18394.5     9.5   10 18414.5     9.5   10
18434.5     9.5   10 18454.5     9.5   10 18474.5     9.5   10 18494.5     9.5   10 18514.5     9.5   10
18534.5     9.5   10 18554.5     9.5   10 18574.5     9.5   10 18594.5     9.5   10 18614.5     9.5   10
18634.5     9.5   10 18654.5     9.5   10 18674.5     9.5   10 18694.5     9.5   10 18714.5     9.5   10
18734.5     9.5   10 18754.5     9.5   10 18774.5     9.5   10 18794.5     9.5   10 18814.5     9.5   10
18834.5     9.5   10 18854.5     9.5   10 18874.5     9.5   10 18894.5     9.5   10 18914.5     9.5   10
18934.5     9.5   10 18954.5     9.5   10 18974.5     9.5   10 18994.5     9.5   10 19014.5     9.5   10
19034.5     9.5   10 19054.5     9.5   10 19074.5     9.5   10 19094.5     9.5   10

Sezione a quota -345
Coordinate dei vertici
      X       Y
18364.5    15.0
19104.5    15.0
19104.6   -15.0
19105.5  -180.0
19075.5  -180.0
19074.6   -15.0
```

18364.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
18374.5	-9.5	10	18394.5	-9.5	10	18414.5	-9.5	10	18434.5	-9.5	10	18454.5	-9.5	10
18474.5	-9.5	10	18494.5	-9.5	10	18514.5	-9.5	10	18534.5	-9.5	10	18554.5	-9.5	10
18574.5	-9.5	10	18594.5	-9.5	10	18614.5	-9.5	10	18634.5	-9.5	10	18654.5	-9.5	10
18674.5	-9.5	10	18694.5	-9.5	10	18714.5	-9.5	10	18734.5	-9.5	10	18754.5	-9.5	10
18774.5	-9.5	10	18794.5	-9.5	10	18814.5	-9.5	10	18834.5	-9.5	10	18854.5	-9.5	10
18874.5	-9.5	10	18894.5	-9.5	10	18914.5	-9.5	10	18934.5	-9.5	10	18954.5	-9.5	10
18974.5	-9.5	10	18994.5	-9.5	10	19014.5	-9.5	10	19034.5	-9.5	10	19054.5	-9.5	10
19074.5	-9.5	10	19094.5	-9.5	10	18374.5	9.5	10	18394.5	9.5	10	18414.5	9.5	10
18434.5	9.5	10	18454.5	9.5	10	18474.5	9.5	10	18494.5	9.5	10	18514.5	9.5	10
18534.5	9.5	10	18554.5	9.5	10	18574.5	9.5	10	18594.5	9.5	10	18614.5	9.5	10
18634.5	9.5	10	18654.5	9.5	10	18674.5	9.5	10	18694.5	9.5	10	18714.5	9.5	10
18734.5	9.5	10	18754.5	9.5	10	18774.5	9.5	10	18794.5	9.5	10	18814.5	9.5	10
18834.5	9.5	10	18854.5	9.5	10	18874.5	9.5	10	18894.5	9.5	10	18914.5	9.5	10
18934.5	9.5	10	18954.5	9.5	10	18974.5	9.5	10	18994.5	9.5	10	19014.5	9.5	10
19034.5	9.5	10	19054.5	9.5	10	19074.5	9.5	10	19094.5	9.5	10			

Sezione a quota -165
Coordinate dei vertici

X	Y
18364.5	15.0
19104.5	15.0
19104.6	-15.0
19105.3	-135.0
19075.3	-135.0
19074.6	-15.0
18364.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
18374.5	-9.5	10	18394.5	-9.5	10	18414.5	-9.5	10	18434.5	-9.5	10	18454.5	-9.5	10
18474.5	-9.5	10	18494.5	-9.5	10	18514.5	-9.5	10	18534.5	-9.5	10	18554.5	-9.5	10
18574.5	-9.5	10	18594.5	-9.5	10	18614.5	-9.5	10	18634.5	-9.5	10	18654.5	-9.5	10
18674.5	-9.5	10	18694.5	-9.5	10	18714.5	-9.5	10	18734.5	-9.5	10	18754.5	-9.5	10
18774.5	-9.5	10	18794.5	-9.5	10	18814.5	-9.5	10	18834.5	-9.5	10	18854.5	-9.5	10
18874.5	-9.5	10	18894.5	-9.5	10	18914.5	-9.5	10	18934.5	-9.5	10	18954.5	-9.5	10
18974.5	-9.5	10	18994.5	-9.5	10	19014.5	-9.5	10	19034.5	-9.5	10	19054.5	-9.5	10
19074.5	-9.5	10	19094.5	-9.5	10	18374.5	9.5	10	18394.5	9.5	10	18414.5	9.5	10
18434.5	9.5	10	18454.5	9.5	10	18474.5	9.5	10	18494.5	9.5	10	18514.5	9.5	10
18534.5	9.5	10	18554.5	9.5	10	18574.5	9.5	10	18594.5	9.5	10	18614.5	9.5	10
18634.5	9.5	10	18654.5	9.5	10	18674.5	9.5	10	18694.5	9.5	10	18714.5	9.5	10
18734.5	9.5	10	18754.5	9.5	10	18774.5	9.5	10	18794.5	9.5	10	18814.5	9.5	10
18834.5	9.5	10	18854.5	9.5	10	18874.5	9.5	10	18894.5	9.5	10	18914.5	9.5	10
18934.5	9.5	10	18954.5	9.5	10	18974.5	9.5	10	18994.5	9.5	10	19014.5	9.5	10
19034.5	9.5	10	19054.5	9.5	10	19074.5	9.5	10	19094.5	9.5	10			

Sezione a quota -30
Coordinate dei vertici

X	Y
18364.5	15.0
19104.5	15.0
19104.6	-15.0
19105.1	-101.3
19075.1	-101.3
19074.6	-15.0
18364.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
18374.5	-9.5	10	18394.5	-9.5	10	18414.5	-9.5	10	18434.5	-9.5	10	18454.5	-9.5	10
18474.5	-9.5	10	18494.5	-9.5	10	18514.5	-9.5	10	18534.5	-9.5	10	18554.5	-9.5	10
18574.5	-9.5	10	18594.5	-9.5	10	18614.5	-9.5	10	18634.5	-9.5	10	18654.5	-9.5	10
18674.5	-9.5	10	18694.5	-9.5	10	18714.5	-9.5	10	18734.5	-9.5	10	18754.5	-9.5	10
18774.5	-9.5	10	18794.5	-9.5	10	18814.5	-9.5	10	18834.5	-9.5	10	18854.5	-9.5	10
18874.5	-9.5	10	18894.5	-9.5	10	18914.5	-9.5	10	18934.5	-9.5	10	18954.5	-9.5	10
18974.5	-9.5	10	18994.5	-9.5	10	19014.5	-9.5	10	19034.5	-9.5	10	19054.5	-9.5	10
19074.5	-9.5	10	19094.5	-9.5	10	18374.5	9.5	10	18394.5	9.5	10	18414.5	9.5	10
18434.5	9.5	10	18454.5	9.5	10	18474.5	9.5	10	18494.5	9.5	10	18514.5	9.5	10
18534.5	9.5	10	18554.5	9.5	10	18574.5	9.5	10	18594.5	9.5	10	18614.5	9.5	10
18634.5	9.5	10	18654.5	9.5	10	18674.5	9.5	10	18694.5	9.5	10	18714.5	9.5	10
18734.5	9.5	10	18754.5	9.5	10	18774.5	9.5	10	18794.5	9.5	10	18814.5	9.5	10
18834.5	9.5	10	18854.5	9.5	10	18874.5	9.5	10	18894.5	9.5	10	18914.5	9.5	10
18934.5	9.5	10	18954.5	9.5	10	18974.5	9.5	10	18994.5	9.5	10	19014.5	9.5	10
19034.5	9.5	10	19054.5	9.5	10	19074.5	9.5	10	19094.5	9.5	10			

Sezione a quota 98
Coordinate dei vertici

X	Y
18364.5	15.0
18659.5	15.0
18659.5	-15.0
18364.5	-15.0
18364.5	15.0
18789.5	15.0
19104.5	15.0
19104.6	-15.0
19104.9	-69.3
19074.9	-69.3
19074.6	-15.0
18789.5	-15.0
18789.5	15.0
18364.5	15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
18374.5	-9.5	10	18394.5	-9.5	10	18414.5	-9.5	10	18434.5	-9.5	10	18454.5	-9.5	10
18474.5	-9.5	10	18494.5	-9.5	10	18514.5	-9.5	10	18534.5	-9.5	10	18554.5	-9.5	10
18574.5	-9.5	10	18594.5	-9.5	10	18614.5	-9.5	10	18634.5	-9.5	10	18654.5	-9.5	10
18794.5	-9.5	10	18814.5	-9.5	10	18834.5	-9.5	10	18854.5	-9.5	10	18874.5	-9.5	10

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18894.5	-9.5	10	18914.5	-9.5	10	18934.5	-9.5	10	18954.5	-9.5	10	18974.5	-9.5	10
18994.5	-9.5	10	19014.5	-9.5	10	19034.5	-9.5	10	19054.5	-9.5	10	19074.5	-9.5	10
19094.5	-9.5	10	18374.5	9.5	10	18394.5	9.5	10	18414.5	9.5	10	18434.5	9.5	10
18454.5	9.5	10	18474.5	9.5	10	18494.5	9.5	10	18514.5	9.5	10	18534.5	9.5	10
18554.5	9.5	10	18574.5	9.5	10	18594.5	9.5	10	18614.5	9.5	10	18634.5	9.5	10
18654.5	9.5	10	18794.5	9.5	10	18814.5	9.5	10	18834.5	9.5	10	18854.5	9.5	10
18874.5	9.5	10	18894.5	9.5	10	18914.5	9.5	10	18934.5	9.5	10	18954.5	9.5	10
18974.5	9.5	10	18994.5	9.5	10	19014.5	9.5	10	19034.5	9.5	10	19054.5	9.5	10
19074.5	9.5	10	19094.5	9.5	10									

Sezione a quota 226
Coordinate dei vertici

X	Y
18364.5	15.0
19104.5	15.0
19104.6	-15.0
19104.7	-37.3
19074.7	-37.3
19074.6	-15.0
18364.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
18374.5	-9.5	10	18394.5	-9.5	10	18414.5	-9.5	10	18434.5	-9.5	10	18454.5	-9.5	10
18474.5	-9.5	10	18494.5	-9.5	10	18514.5	-9.5	10	18534.5	-9.5	10	18554.5	-9.5	10
18574.5	-9.5	10	18594.5	-9.5	10	18614.5	-9.5	10	18634.5	-9.5	10	18654.5	-9.5	10
18674.5	-9.5	10	18694.5	-9.5	10	18714.5	-9.5	10	18734.5	-9.5	10	18754.5	-9.5	10
18774.5	-9.5	10	18794.5	-9.5	10	18814.5	-9.5	10	18834.5	-9.5	10	18854.5	-9.5	10
18874.5	-9.5	10	18894.5	-9.5	10	18914.5	-9.5	10	18934.5	-9.5	10	18954.5	-9.5	10
18974.5	-9.5	10	18994.5	-9.5	10	19014.5	-9.5	10	19034.5	-9.5	10	19054.5	-9.5	10
19074.5	-9.5	10	19094.5	-9.5	10	18374.5	9.5	10	18394.5	9.5	10	18414.5	9.5	10
18434.5	9.5	10	18454.5	9.5	10	18474.5	9.5	10	18494.5	9.5	10	18514.5	9.5	10
18534.5	9.5	10	18554.5	9.5	10	18574.5	9.5	10	18594.5	9.5	10	18614.5	9.5	10
18634.5	9.5	10	18654.5	9.5	10	18674.5	9.5	10	18694.5	9.5	10	18714.5	9.5	10
18734.5	9.5	10	18754.5	9.5	10	18774.5	9.5	10	18794.5	9.5	10	18814.5	9.5	10
18834.5	9.5	10	18854.5	9.5	10	18874.5	9.5	10	18894.5	9.5	10	18914.5	9.5	10
18934.5	9.5	10	18954.5	9.5	10	18974.5	9.5	10	18994.5	9.5	10	19014.5	9.5	10
19034.5	9.5	10	19054.5	9.5	10	19074.5	9.5	10	19094.5	9.5	10			

Sezione a quota 246
Coordinate dei vertici

X	Y
18364.5	15.0
19104.5	15.0
19104.6	-15.0
19104.7	-32.3
19074.7	-32.3
19074.6	-15.0
18364.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
18374.5	-9.5	10	18394.5	-9.5	10	18414.5	-9.5	10	18434.5	-9.5	10	18454.5	-9.5	10
18474.5	-9.5	10	18494.5	-9.5	10	18514.5	-9.5	10	18534.5	-9.5	10	18554.5	-9.5	10
18574.5	-9.5	10	18594.5	-9.5	10	18614.5	-9.5	10	18634.5	-9.5	10	18654.5	-9.5	10
18674.5	-9.5	10	18694.5	-9.5	10	18714.5	-9.5	10	18734.5	-9.5	10	18754.5	-9.5	10
18774.5	-9.5	10	18794.5	-9.5	10	18814.5	-9.5	10	18834.5	-9.5	10	18854.5	-9.5	10
18874.5	-9.5	10	18894.5	-9.5	10	18914.5	-9.5	10	18934.5	-9.5	10	18954.5	-9.5	10
18974.5	-9.5	10	18994.5	-9.5	10	19014.5	-9.5	10	19034.5	-9.5	10	19054.5	-9.5	10
19074.5	-9.5	10	19094.5	-9.5	10	18374.5	9.5	10	18394.5	9.5	10	18414.5	9.5	10
18434.5	9.5	10	18454.5	9.5	10	18474.5	9.5	10	18494.5	9.5	10	18514.5	9.5	10
18534.5	9.5	10	18554.5	9.5	10	18574.5	9.5	10	18594.5	9.5	10	18614.5	9.5	10
18634.5	9.5	10	18654.5	9.5	10	18674.5	9.5	10	18694.5	9.5	10	18714.5	9.5	10
18734.5	9.5	10	18754.5	9.5	10	18774.5	9.5	10	18794.5	9.5	10	18814.5	9.5	10
18834.5	9.5	10	18854.5	9.5	10	18874.5	9.5	10	18894.5	9.5	10	18914.5	9.5	10
18934.5	9.5	10	18954.5	9.5	10	18974.5	9.5	10	18994.5	9.5	10	19014.5	9.5	10
19034.5	9.5	10	19054.5	9.5	10	19074.5	9.5	10	19094.5	9.5	10			

Sezione a quota 291
Coordinate dei vertici

X	Y
18364.5	-15.0
18364.5	15.0
19104.5	15.0
19104.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
18374.5	-9.5	10	18394.5	-9.5	10	18414.5	-9.5	10	18434.5	-9.5	10	18454.5	-9.5	10
18474.5	-9.5	10	18494.5	-9.5	10	18514.5	-9.5	10	18534.5	-9.5	10	18554.5	-9.5	10
18574.5	-9.5	10	18594.5	-9.5	10	18614.5	-9.5	10	18634.5	-9.5	10	18654.5	-9.5	10
18674.5	-9.5	10	18694.5	-9.5	10	18714.5	-9.5	10	18734.5	-9.5	10	18754.5	-9.5	10
18774.5	-9.5	10	18794.5	-9.5	10	18814.5	-9.5	10	18834.5	-9.5	10	18854.5	-9.5	10
18874.5	-9.5	10	18894.5	-9.5	10	18914.5	-9.5	10	18934.5	-9.5	10	18954.5	-9.5	10
18974.5	-9.5	10	18994.5	-9.5	10	19014.5	-9.5	10	19034.5	-9.5	10	19054.5	-9.5	10
19074.5	-9.5	10	19094.5	-9.5	10	18374.5	9.5	10	18394.5	9.5	10	18414.5	9.5	10
18434.5	9.5	10	18454.5	9.5	10	18474.5	9.5	10	18494.5	9.5	10	18514.5	9.5	10
18534.5	9.5	10	18554.5	9.5	10	18574.5	9.5	10	18594.5	9.5	10	18614.5	9.5	10
18634.5	9.5	10	18654.5	9.5	10	18674.5	9.5	10	18694.5	9.5	10	18714.5	9.5	10
18734.5	9.5	10	18754.5	9.5	10	18774.5	9.5	10	18794.5	9.5	10	18814.5	9.5	10
18834.5	9.5	10	18854.5	9.5	10	18874.5	9.5	10	18894.5	9.5	10	18914.5	9.5	10
18934.5	9.5	10	18954.5	9.5	10	18974.5	9.5	10	18994.5	9.5	10	19014.5	9.5	10
19034.5	9.5	10	19054.5	9.5	10	19074.5	9.5	10	19094.5	9.5	10			

Sezione a quota 335
Coordinate dei vertici

X	Y
18364.5	-15.0
18364.5	15.0
19104.5	15.0
19104.5	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
18374.5	-9.5	10	18394.5	-9.5	10	18414.5	-9.5	10	18434.5	-9.5	10	18454.5	-9.5	10
18474.5	-9.5	10	18494.5	-9.5	10	18514.5	-9.5	10	18534.5	-9.5	10	18554.5	-9.5	10
18574.5	-9.5	10	18594.5	-9.5	10	18614.5	-9.5	10	18634.5	-9.5	10	18654.5	-9.5	10
18674.5	-9.5	10	18694.5	-9.5	10	18714.5	-9.5	10	18734.5	-9.5	10	18754.5	-9.5	10
18774.5	-9.5	10	18794.5	-9.5	10	18814.5	-9.5	10	18834.5	-9.5	10	18854.5	-9.5	10
18874.5	-9.5	10	18894.5	-9.5	10	18914.5	-9.5	10	18934.5	-9.5	10	18954.5	-9.5	10
18974.5	-9.5	10	18994.5	-9.5	10	19014.5	-9.5	10	19034.5	-9.5	10	19054.5	-9.5	10
19074.5	-9.5	10	19094.5	-9.5	10	18374.5	9.5	10	18394.5	9.5	10	18414.5	9.5	10
18434.5	9.5	10	18454.5	9.5	10	18474.5	9.5	10	18494.5	9.5	10	18514.5	9.5	10
18534.5	9.5	10	18554.5	9.5	10	18574.5	9.5	10	18594.5	9.5	10	18614.5	9.5	10
18634.5	9.5	10	18654.5	9.5	10	18674.5	9.5	10	18694.5	9.5	10	18714.5	9.5	10
18734.5	9.5	10	18754.5	9.5	10	18774.5	9.5	10	18794.5	9.5	10	18814.5	9.5	10
18834.5	9.5	10	18854.5	9.5	10	18874.5	9.5	10	18894.5	9.5	10	18914.5	9.5	10
18934.5	9.5	10	18954.5	9.5	10	18974.5	9.5	10	18994.5	9.5	10	19014.5	9.5	10
19034.5	9.5	10	19054.5	9.5	10	19074.5	9.5	10	19094.5	9.5	10			

La verifica a pressoflesisone, per le combinazioni sismiche, viene eseguita calcolando i momenti resistenti in campo sostanziamente elastico

fcd	fctd	Hcr	q.Hcr	hw	Lw	n.p.	hs
174	14	1005	340	1040	740	3	340

Verifica a pressoflessione

quota	Mxd	Myd	Ned	Ngrav.	NReale	c.s.	comb
-525	59806	-3038674	-119549	-119549	-119549	27.3333	18 SLU
-525	-224496	5180462	9271	-81931	9271	5.2629	4 SLV
-525	148534	-5230227	-120965	-81931	-120965	19.5003	13 SLD
-345	22521	-572502	-125643	-125643	-125643	30.9970	20 SLU
-345	144957	-19955760	-98413	-84872	-98413	10.6907	10 SLV
-345	70976	-8882740	-91047	-84872	-91047	19.9726	9 SLD
-165	5027	2896812	-129115	-129115	-129115	28.8919	20 SLU
-165	188479	-20682910	-69095	-85870	-69095	6.6823	10 SLV
-165	83555	-7906177	-79337	-85870	-79337	22.4662	9 SLD
-30	1434	4733731	-94177	-94177	-94177	36.3406	18 SLU
-30	824	-19911910	-27517	-62958	-27517	3.8574	10 SLV
-30	1314	12947750	-78145	-62958	-78145	25.6498	7 SLD
98	3086	5208981	-87807	-87807	-87807	31.0741	20 SLU
98	-118326	-17849890	-27338	-58649	-27338	4.3390	10 SLV
98	54051	12302860	-72063	-58649	-72063	23.8489	7 SLD
226	5206	4610857	-77727	-77727	-77727	42.6777	20 SLU
226	-205583	-11413400	-26969	-51037	-26969	12.8801	10 SLV
226	94260	9026460	-61334	-51037	-61334	31.3537	7 SLD
246	4919	4107411	-73229	-73229	-73229	45.8861	20 SLU
246	-242062	-9565771	-25403	-47782	-25403	12.9030	10 SLV
246	109954	7781381	-57364	-47782	-57364	33.7069	7 SLD
291	4346	3494973	-65857	-65857	-65857	50.3858	20 SLU
291	239326	5136932	-57366	-42470	-57366	31.9225	11 SLV
291	75113	4137849	-49815	-42470	-49815	50.1165	7 SLD
335	1772	2365552	-54276	-54276	-54276	61.1368	20 SLU
335	-110604	3417443	-30351	-34327	-30351	57.9697	1 SLV
335	44792	1673204	-37090	-34327	-37090	79.1931	11 SLD

Verifica compressione del diagonale

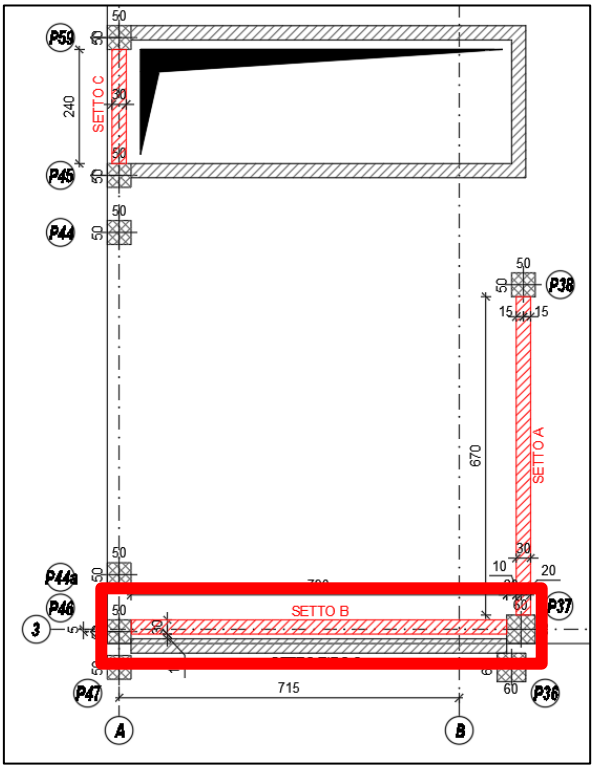
quota	epsilon	VEd	Vrcd	comb
-525	1.00	-13351	546181	9 SLU
-525	1.00	-83244	555081	16 SLV
-525	1.00	-40152	548861	16 SLD
-345	1.00	-12593	549749	19 SLU
-345	1.00	-85928	549518	16 SLV
-345	1.00	-41119	546712	16 SLD
-165	1.00	-13111	550202	19 SLU
-165	1.00	-87864	546029	16 SLV
-165	1.00	-42182	545296	16 SLD
-30	1.00	-5489	450821	14 SLU
-30	1.00	-202967	443085	10 SLV
-30	1.00	-88662	445879	10 SLD
98	1.00	-5321	450096	14 SLU
98	1.00	-206009	443061	10 SLV
98	1.00	-89862	445529	10 SLD
226	1.00	-5153	542389	14 SLU
226	1.00	-210183	536622	10 SLV
226	1.00	-91516	538522	10 SLD
246	1.00	-4880	541821	14 SLU
246	1.00	-222376	536406	10 SLV
246	1.00	-96611	538171	10 SLD
291	1.00	-4342	540884	14 SLU
291	1.00	-258629	536392	10 SLV
291	1.00	-111938	537747	10 SLD
335	1.00	-3411	539438	14 SLU
335	1.00	-320819	536943	10 SLV
335	1.00	-138211	537341	10 SLD

Verifica trazione del diagonale

quota	At	roh	rov	VEd	NEd	VRsd	comb
-525	58.1	0.0026	0.0026	-13351	-96268	454950	9 SLU
-525	58.1	0.0026	0.0026	-83244	-160794	454950	16 SLV
-525	58.1	0.0026	0.0026	-40152	-115698	454950	16 SLD
-345	58.1	0.0026	0.0026	-12593	-122138	454950	19 SLU
-345	58.1	0.0026	0.0026	-85928	-120462	454950	16 SLV
-345	58.1	0.0026	0.0026	-41119	-100117	454950	16 SLD
-165	58.1	0.0026	0.0026	-13111	-125422	454950	19 SLU
-165	58.1	0.0026	0.0026	-87864	-95166	454950	16 SLV
-165	58.1	0.0026	0.0026	-42182	-89853	454950	16 SLD
-30	58.1	0.0021	0.0026	-5489	-83598	374969	14 SLU
-30	58.1	0.0021	0.0026	-202967	-27517	374969	10 SLV
-30	58.1	0.0021	0.0026	-88662	-47771	374969	10 SLD
98	48.7	0.0026	0.0027	-5321	-78347	375031	14 SLU
98	48.7	0.0026	0.0027	-206009	-27338	375031	10 SLV
98	48.7	0.0026	0.0027	-89862	-45235	375031	10 SLD

226	58.1	0.0021	0.0026	-5153	-68781	454874	14	SLU
226	58.1	0.0021	0.0026	-210183	-26969	454874	10	SLV
226	58.1	0.0021	0.0026	-91516	-40740	454874	10	SLD
246	58.1	0.0022	0.0026	-4880	-64663	454874	14	SLU
246	58.1	0.0022	0.0026	-222376	-25403	454874	10	SLV
246	58.1	0.0022	0.0026	-96611	-38200	454874	10	SLD
291	58.1	0.0026	0.0026	-4342	-57868	454950	14	SLU
291	58.1	0.0026	0.0026	-258629	-25299	454950	10	SLV
291	58.1	0.0026	0.0026	-111938	-35124	454950	10	SLD
335	58.1	0.0023	0.0026	-3411	-47386	454874	14	SLU
335	58.1	0.0023	0.0026	-320819	-29295	454874	10	SLV
335	58.1	0.0023	0.0026	-138211	-32177	454874	10	SLD

4.2 SETTO B



Verifica dei pannelli

Pannello : Pannello da Filo P15 a Filo P1

Sezione a quota -525
Coordinate dei vertici

X	Y
-8176.2	15.0
-7311.1	15.0
-7296.2	-15.0
-7296.8	-120.0
-7326.8	-120.0
-7326.2	-15.0
-8146.2	-15.0
-8146.8	-120.0
-8176.8	-120.0
-8176.2	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota -345

Coordinate dei vertici

X	Y
-8176.2	15.0
-7311.1	15.0
-7296.2	-15.0
-7296.8	-120.0
-7326.8	-120.0
-7326.2	-15.0
-8146.2	-15.0
-8146.8	-120.0
-8176.8	-120.0
-8176.2	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota -165

Coordinate dei vertici

X	Y
-8176.2	15.0
-7311.1	15.0
-7296.2	-15.0
-7296.8	-120.0
-7326.8	-120.0
-7326.2	-15.0
-8146.2	-15.0
-8146.8	-120.0
-8176.8	-120.0
-8176.2	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota -30

Coordinate dei vertici

X	Y
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0
-8146.2	-15.0
-8147.2	-187.5
-8177.2	-187.5
-8176.2	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota 98

progetti
architettura.ingegneria

Coordinate dei vertici

X	Y
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0
-8146.2	-15.0
-8147.0	-155.5
-8177.0	-155.5
-8176.2	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota 226

Coordinate dei vertici

X	Y
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0
-8146.2	-15.0
-8146.8	-123.5
-8176.8	-123.5
-8176.2	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota 246

Coordinate dei vertici

X	Y
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0
-8146.2	-15.0
-8146.8	-118.5
-8176.8	-118.5
-8176.2	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota 291

Coordinate dei vertici

X	Y
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0
-8146.2	-15.0

-8146.7	-107.4
-8176.7	-107.4
-8176.2	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota 335
Coordinate dei vertici

X	Y
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0
-8146.2	-15.0
-8146.7	-96.3
-8176.7	-96.3
-8176.2	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota 375
Coordinate dei vertici

X	Y
-8176.2	-15.0
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota 498
Coordinate dei vertici

X	Y
-8176.2	-15.0
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10

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-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota 620
Coordinate dei vertici

X	Y
-8176.2	-15.0
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

Sezione a quota 650
Coordinate dei vertici

X	Y
-8176.2	-15.0
-8176.2	15.0
-7311.1	15.0
-7311.1	-15.0

Armature verticali

X	Y	d	X	Y	d	X	Y	d	X	Y	d	X	Y	d
-8163.6	-9.5	10	-8143.6	-9.5	10	-8123.6	-9.5	10	-8103.6	-9.5	10	-8083.6	-9.5	10
-8063.6	-9.5	10	-8043.6	-9.5	10	-8023.6	-9.5	10	-8003.6	-9.5	10	-7983.6	-9.5	10
-7963.6	-9.5	10	-7943.6	-9.5	10	-7923.6	-9.5	10	-7903.6	-9.5	10	-7883.6	-9.5	10
-7863.6	-9.5	10	-7843.6	-9.5	10	-7823.6	-9.5	10	-7803.6	-9.5	10	-7783.6	-9.5	10
-7763.6	-9.5	10	-7743.6	-9.5	10	-7723.6	-9.5	10	-7703.6	-9.5	10	-7683.6	-9.5	10
-7663.6	-9.5	10	-7643.6	-9.5	10	-7623.6	-9.5	10	-7603.6	-9.5	10	-7583.6	-9.5	10
-7563.6	-9.5	10	-7543.6	-9.5	10	-7523.6	-9.5	10	-7503.6	-9.5	10	-7483.6	-9.5	10
-7463.6	-9.5	10	-7443.6	-9.5	10	-7423.6	-9.5	10	-7403.6	-9.5	10	-7383.6	-9.5	10
-7363.6	-9.5	10	-7343.6	-9.5	10	-7323.6	-9.5	10	-8163.6	9.5	10	-8143.6	9.5	10
-8123.6	9.5	10	-8103.6	9.5	10	-8083.6	9.5	10	-8063.6	9.5	10	-8043.6	9.5	10
-8023.6	9.5	10	-8003.6	9.5	10	-7983.6	9.5	10	-7963.6	9.5	10	-7943.6	9.5	10
-7923.6	9.5	10	-7903.6	9.5	10	-7883.6	9.5	10	-7863.6	9.5	10	-7843.6	9.5	10
-7823.6	9.5	10	-7803.6	9.5	10	-7783.6	9.5	10	-7763.6	9.5	10	-7743.6	9.5	10
-7723.6	9.5	10	-7703.6	9.5	10	-7683.6	9.5	10	-7663.6	9.5	10	-7643.6	9.5	10
-7623.6	9.5	10	-7603.6	9.5	10	-7583.6	9.5	10	-7563.6	9.5	10	-7543.6	9.5	10
-7523.6	9.5	10	-7503.6	9.5	10	-7483.6	9.5	10	-7463.6	9.5	10	-7443.6	9.5	10
-7423.6	9.5	10	-7403.6	9.5	10	-7383.6	9.5	10	-7363.6	9.5	10	-7343.6	9.5	10
-7323.6	9.5	10												

La verifica a pressoflesisone, per le combinazioni sismiche, viene eseguita calcolando i momenti resistenti in campo sostanziamente elastico

fcd	fctd	Hcr	q.Hcr	hw	Lw	n.p.	hs
174	14	931	266	1385	865	5	266

Verifica a pressoflessione

quota	Mxd	Myd	Ned	Ngrav.	NReale	c.s.	comb
-525	126022	-2742623	-128172	-128172	-128172	29.9716	20 SLU
-525	-107059	-10084640	-9449	-90408	-9449	9.8067	8 SLV
-525	174976	-8180918	-105550	-90408	-105550	21.8854	2 SLD
-345	20092	622860	-118156	-118156	-118156	36.9050	18 SLU
-345	-47909	-16633380	2940	-83679	2940	3.6957	8 SLV
-345	42572	7046507	-120803	-83679	-120803	24.0166	9 SLD
-165	-12552	3523762	-99274	-99274	-99274	38.0527	18 SLU
-165	195737	-22940490	6263	-70484	6263	2.4543	8 SLV
-165	-97459	12417150	-103361	-70484	-103361	22.7770	9 SLD
-30	-16890	4521506	-81916	-81916	-81916	30.0176	18 SLU
-30	-69543	-27330660	4662	-58032	4662	2.2242	8 SLV
-30	11547	15117750	-84901	-58032	-84901	20.1009	9 SLD
98	-25616	4691374	-69820	-69820	-69820	41.9810	18 SLU
98	-687506	-20551110	-2552	-49125	-2552	2.7488	8 SLV
98	270879	12329220	-69085	-49125	-69085	17.0452	9 SLD
226	-39920	4826911	-57627	-57627	-57627	55.5657	18 SLU
226	1416301	17874900	-67160	-40093	-67160	2.3227	9 SLV
226	592486	9111434	-51695	-40093	-51695	8.0643	9 SLD
246	-43074	4861644	-56851	-56851	-56851	56.2843	18 SLU
246	1555548	15991920	-58675	-39618	-58675	2.0676	9 SLV
246	650987	8318911	-47797	-39618	-47797	6.9310	9 SLD
291	-51102	4909679	-52427	-52427	-52427	60.5730	18 SLU

291	1988595	12822150	-40012	-36363	-40012	1.5085	9 SLV
291	833402	6983487	-37944	-36363	-37944	4.6384	9 SLD
335	-60030	4806072	-43490	-43490	-43490	71.8352	18 SLU
335	2472622	9356907	-26395	-29779	-26395	1.2017	9 SLV
335	1037367	5478056	-28335	-29779	-28335	3.3404	9 SLD
375	-69738	4990996	-38838	-38838	-38838	72.9935	18 SLU
375	-3021086	99652	-16713	-26439	-16713	1.0783	12 SLV
375	-1316547	1589877	-22271	-26439	-22271	2.7488	12 SLD
498	-94821	4497304	-25758	-25758	-25758	76.3859	18 SLU
498	-1889915	1188312	-12116	-17241	-12116	1.7008	12 SLV
498	-839965	1921256	-15038	-17241	-15038	4.1673	12 SLD
620	-69749	1729498	-8352	-8352	-8352	103.7144	18 SLU
620	-448345	262973	-2856	-5474	-2856	7.1780	12 SLV
620	-214005	663259	-4342	-5474	-4342	16.3393	12 SLD
650	-26878	684501	-2148	-2148	-2148	177.6392	18 SLU
650	-146234	27084	116	-1267	116	20.4721	12 SLV
650	-71055	231923	-669	-1267	-669	42.3091	12 SLD

Verifica compressione del diagonale

quota	epsilon	VEd	Vrcd	comb
-525	1.00	-18410	640605	20 SLU
-525	1.00	-91783	640266	2 SLV
-525	1.00	-46665	637485	2 SLD
-345	1.00	-19261	638875	19 SLU
-345	1.00	-104012	637623	2 SLV
-345	1.00	-52286	635822	2 SLD
-165	1.00	-18924	636211	19 SLU
-165	1.00	-102066	634669	2 SLV
-165	1.00	-51325	633516	2 SLD
-30	1.00	-1249	631712	7 SLU
-30	1.00	-37624	622926	8 SLV
-30	1.00	-16160	627224	8 SLD
98	1.00	1329	631745	14 SLU
98	1.00	-34096	623278	8 SLV
98	1.00	14759	632455	9 SLD
226	1.00	1321	630098	14 SLU
226	1.00	-35331	624723	8 SLV
226	1.00	15277	630056	9 SLD
246	1.00	1294	630004	14 SLU
246	1.00	-33271	625762	8 SLV
246	1.00	14372	629519	9 SLD
291	1.00	1248	629411	14 SLU
291	1.00	32841	628445	9 SLV
291	1.00	14080	628160	9 SLD
335	1.00	1305	628223	14 SLU
335	1.00	34049	626567	9 SLV
335	1.00	14634	626834	9 SLD
375	1.00	135	627885	15 SLU
375	1.00	18392	626498	13 SLV
375	1.00	7918	626541	13 SLD
498	1.00	779	626479	18 SLU
498	1.00	19321	624942	13 SLV
498	1.00	8536	625149	13 SLD
620	1.00	5173	624078	18 SLU
620	1.00	14019	623201	13 SLV
620	1.00	7626	623476	13 SLD
650	1.00	4653	623222	17 SLU
650	1.00	9447	622926	16 SLV
650	1.00	5498	622980	16 SLD

Verifica trazione del diagonale

quota	At	roh	rov	VEd	NEd	VRsd	comb
-525	67.5	0.0026	0.0026	-18410	-128172	531805	20 SLU
-525	67.5	0.0026	0.0026	-91783	-125713	531805	2 SLV
-525	67.5	0.0026	0.0026	-46665	-105550	531805	2 SLD
-345	67.5	0.0026	0.0026	-19261	-115633	531805	19 SLU
-345	67.5	0.0026	0.0026	-104012	-106554	531805	2 SLV
-345	67.5	0.0026	0.0026	-52286	-93497	531805	2 SLD
-165	67.5	0.0026	0.0026	-18924	-96318	531805	19 SLU
-165	67.5	0.0026	0.0026	-102066	-85135	531805	2 SLV
-165	67.5	0.0026	0.0026	-51325	-76775	531805	2 SLD
-30	67.5	0.0026	0.0026	-1249	-63696	531805	7 SLU
-30	67.5	0.0026	0.0026	-37624	4662	531805	8 SLV
-30	67.5	0.0026	0.0026	-16160	-31162	531805	8 SLD
98	67.5	0.0026	0.0026	1329	-63940	531805	14 SLU
98	67.5	0.0026	0.0026	34365	-95698	531805	9 SLV
98	67.5	0.0026	0.0026	14759	-69085	531805	9 SLD
226	67.5	0.0026	0.0026	1321	-51999	531805	14 SLU
226	67.5	0.0026	0.0026	35591	-67160	531805	9 SLV
226	67.5	0.0026	0.0026	15277	-51695	531805	9 SLD
246	67.5	0.0026	0.0026	1294	-51316	531805	14 SLU
246	67.5	0.0026	0.0026	33495	-58675	531805	9 SLV
246	67.5	0.0026	0.0026	14372	-47797	531805	9 SLD
291	67.5	0.0026	0.0026	1248	-47018	531805	14 SLU
291	67.5	0.0026	0.0026	32841	-40012	531805	9 SLV
291	67.5	0.0026	0.0026	14080	-37944	531805	9 SLD
335	67.5	0.0026	0.0026	1305	-38405	531805	14 SLU
335	67.5	0.0026	0.0026	34049	-26395	531805	9 SLV
335	67.5	0.0026	0.0026	14634	-28335	531805	9 SLD
375	67.5	0.0026	0.0026	135	-35956	531805	15 SLU
375	67.5	0.0026	0.0026	18392	-25901	531805	13 SLV
375	67.5	0.0026	0.0026	7918	-26208	531805	13 SLD
498	67.5	0.0026	0.0026	779	-25758	531805	18 SLU
498	67.5	0.0026	0.0026	19321	-14620	531805	13 SLV
498	67.5	0.0026	0.0026	8536	-16117	531805	13 SLD
620	67.5	0.0026	0.0026	5173	-8352	531805	18 SLU
620	67.5	0.0026	0.0026	14019	-1996	531805	13 SLV
620	67.5	0.0026	0.0026	7626	-3985	531805	13 SLD
650	67.5	0.0026	0.0026	4653	-2143	531805	17 SLU
650	67.5	0.0026	0.0026	9447	776	531805	16 SLV
650	67.5	0.0026	0.0026	5498	-389	531805	16 SLD

5 PLINTI ESISTENTI – VERIFICA STRUTTURALE

Le verifiche SLV che si riportano di seguito fanno riferimento ad una sollecitazione sismica pari al 100% di quella prevista dalla normativa.
Come riportato nella relazione principale, la normativa richiede per l'adeguamento il raggiungimento di ζ≥0,80, dove ζ è il rapporto tra l'azione sismica massima sopportabile dalla struttura e l'azione sismica massima che si utilizzerebbe nel progetto di una nuova costruzione.
Per i plinti appartenenti alla zona uffici viene riportata anche la verifica del bicchiere.

5.1 VERIFICHE PLINTI SUPERFICIALI

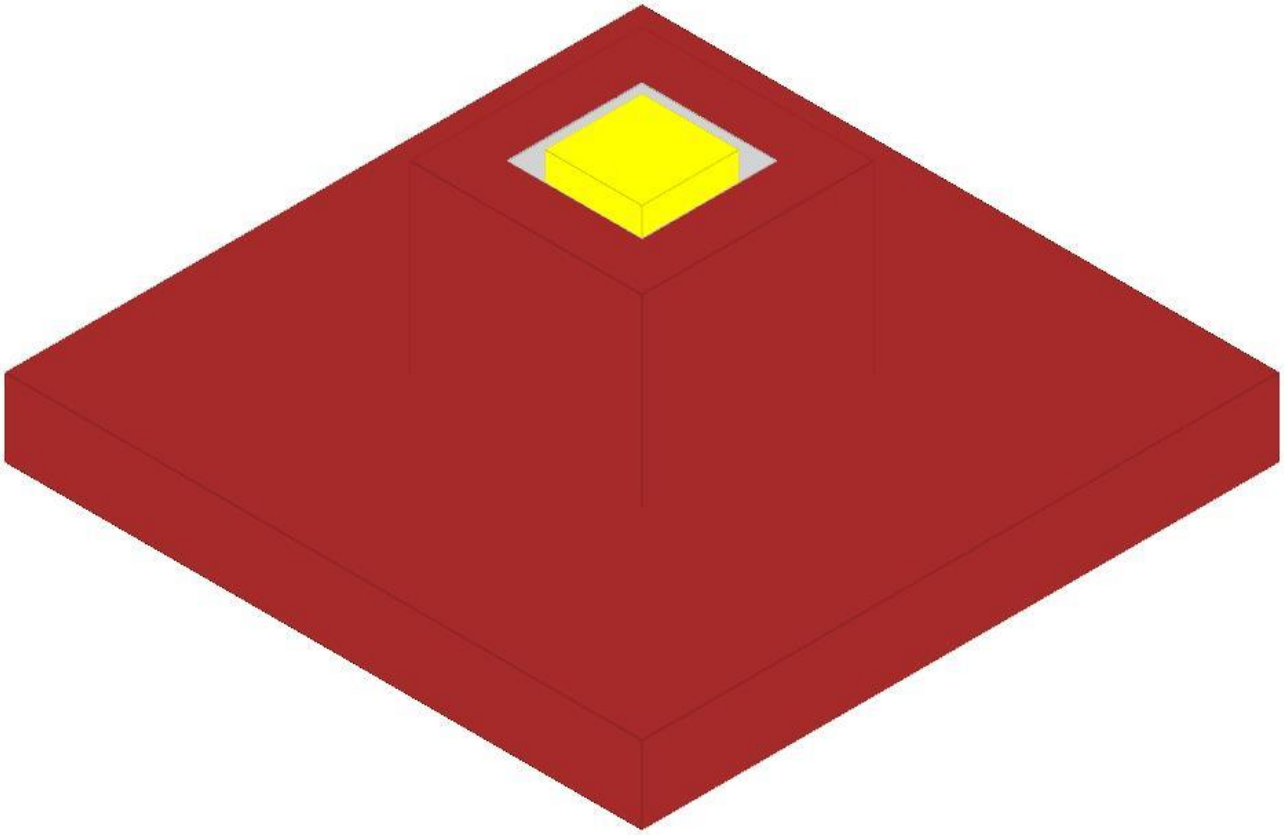
Le unità di misura elencate nel capitolo sono in [m, kN, deg] ove non espressamente specificato.

***Comb.**: combinazione.*
***σt max**: massimo valore della pressione di compressione. [kN/m²]*
***σt min**: minimo valore della pressione di compressione. [kN/m²]*
***σt verifica**: valore di confronto della pressione di compressione. [kN/m²]*
***Verifica**: stato di verifica.*
***Desc.**: descrizione.*
***Tipo sez.**: asse o filo pilastro, filo risega.*
***M**: momento flettente. [kN*m]*
***Mu**: momento ultimo. [kN*m]*
***Fessurata**: stato fessurato o non fessurato.*
***σC**: tensione nel calcestruzzo. [kN/m²]*
***σF**: tensione nell'acciaio. [kN/m²]*
***wd**: apertura delle fessure. [m]*
***Sezione di normale**: orientamento della sezione.*
***N pil.**: sforzo normale dal pilastro nella combinazione. [kN]*
***Fx pil.**: taglio X dal pilastro nella combinazione. [kN]*
***Fy pil.**: taglio Y dal pilastro nella combinazione. [kN]*
***Mx pil.**: momento X dal pilastro nella combinazione. [kN*m]*
***My pil.**: momento Y dal pilastro nella combinazione. [kN*m]*
***N par**: sforzo normale nella sezione di verifica della parete. [kN]*
***M par**: momento flettente nella sezione di verifica della parete. [kN*m]*
***Nu par**: sforzo normale ultimo nella sezione di verifica della parete. [kN]*
***Mu par**: momento ultimo nella sezione di verifica della parete. [kN*m]*
***N**: sforzo normale. [kN]*
***σx+σy**: somma delle tensioni nelle due direzioni. [kN/m²]*
***σ limite**: massima tensione di normativa. [kN/m²]*
***Direzione X**: direzione di verifica.*
***β**: inclinazione sull'orizzontale del puntone. [deg]*
***F'sd/2**: risultante applicata C.N.R. 10025/84 2.1.1.2. [kN]*
***Compr.**: sforzo normale in un puntone. [kN]*
***Compr. limite**: resistenza di calcolo di un puntone. [kN]*
***Trazione**: trazione nel tirante verticale. [kN]*
***Area tirante**: area del tirante. [m²]*
***Direzione Y**: direzione di verifica.*
***Mx**: momento flettente su sezione di base asse x. [kN*m]*
***My**: momento flettente su sezione di base asse y. [kN*m]*
***Coeff.s.**: coefficiente di sicurezza a pressoflessione.*
***Vx**: sforzo di taglio su sezione di base lungo x. [kN]*
***Vy**: sforzo di taglio su sezione di base lungo y. [kN]*
***Vrdx**: taglio ultimo x in assenza di staffature [4.1.14]. [kN]*
***Vrdy**: taglio ultimo y in assenza di staffature [4.1.14]. [kN]*
***Vrsdx**: taglio ultimo x dovuto alla presenza di armatura trasversale. [kN]*
***Vrsdy**: taglio ultimo y dovuto alla presenza di armatura trasversale. [kN]*
***Vrcdx**: taglio x che produce la rottura delle bielle di calcestruzzo. [kN]*
***Vrcdy**: taglio x che produce la rottura delle bielle di calcestruzzo. [kN]*

5.1.1 Plinto 7

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.1.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.1.2 Caratteristiche geometriche

Suola: dimensione x: 3.3; dimensione y: 3.3; spessore: 0.4
Dado: dimensione x: 1.2; dimensione y: 1.2; spessore: 0.95
Bicchiere: dimensione x: 0.7; dimensione y: 0.7; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.5; dimensione y: 0.5
Copriferri: suola: 0.075; dado: 0.04

5.1.1.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 17 diam. 14 mm Armatura superiore in direzione X 9 diam. 8 mm
Armatura inferiore in direzione Y 17 diam. 14 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.1.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 4.21

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X+	filo ris.	SLU 18	86.4778	364.4279	Si
norm.X+	filo ris.	SLU 20	86.0917	364.4279	Si
norm.Y+	filo ris.	SLU 20	82.4192	352.0015	Si
norm.Y+	filo ris.	SLU 18	82.1546	352.0015	Si
norm.X+	filo ris.	SLU 19	83.6913	364.4279	Si

5.1.1.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 40.67

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.X+	filo ris.	SLE RA 3	62.6535	no	-706	2277	Si
norm.X+	filo ris.	SLE RA 5	62.3961	no	-703	2267	Si
norm.X+	filo ris.	SLE RA 4	60.7958	no	-685	2209	Si
norm.Y+	filo ris.	SLE RA 5	60.3012	no	-681	1937	Si
norm.Y+	filo ris.	SLE RA 3	60.1248	no	-679	1931	Si

5.1.1.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	97.725	no	0	Si
norm.Y-	filo ris.	SLE FR 2	51.3572	no	0	Si
norm.Y-	filo ris.	SLE FR 1	50.8217	no	0	Si
norm.Y-	filo pil.	SLE FR 4	92.3196	no	0	Si
norm.Y-	filo pil.	SLE FR 3	91.8772	no	0	Si

5.1.1.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 33.14

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.X+	filo ris.	SLE QP 2	57.6624	no	-650	0	Si
norm.X+	filo ris.	SLE QP 1	56.3195	no	-635	0	Si
norm.Y+	filo ris.	SLE QP 2	55.212	no	-624	0	Si
norm.Y+	filo ris.	SLE QP 1	53.6324	no	-606	0	Si
norm.Y-	filo ris.	SLE QP 2	51.9812	no	-587	0	Si

5.1.1.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a flessione 4.63

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X+	filo ris.	SLV FO 16	78.7765	364.4279	Si
norm.X+	filo ris.	SLV FO 15	78.0015	364.4279	Si
norm.X+	filo ris.	SLV FO 14	75.6818	364.4279	Si
norm.X+	filo ris.	SLV FO 13	74.9068	364.4279	Si
norm.Y+	filo ris.	SLV FO 12	68.9986	352.0015	Si

5.1.1.4 Verifiche del bicchiere

5.1.1.4.1 Verifiche delle pareti per tensoflessione del bordo superiore

Sezione B=0.475 H=0.25

Armatura interna 3 diam.16 armatura esterna 3 diam.16

5.1.1.4.2 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 9.62

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLU 18	-432.17	7.26	2.81	-6.8078	18.8653	19.88	3.6631	191.29	35.241	Si
X	SLU 8	-373.93	7.47	2.12	-5.2071	19.3654	20.43	3.502	200.2	34.3229	Si
X	SLU 20	-432.16	6.8	3.14	-7.4667	17.8799	18.79	3.6172	185.94	35.7931	Si
X	SLU 17	-403.47	7.39	1.95	-4.8913	19.083	20.14	3.4149	201.61	34.1779	Si
X	SLU 10	-373.91	7.02	2.45	-5.8661	18.3799	19.33	3.4561	195	34.8589	Si

5.1.1.4.3 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 66.41

Sezione di normale	Comb.	N	M	Fessurata	σC	σF	Verifica
Y	SLE RA 3	5.64	2.5137	no	-432	1879	Si
Y	SLE RA 5	6.14	2.4831	no	-423	1882	Si
Y	SLE RA 2	4.24	2.3482	no	-412	1710	Si
Y	SLE RA 4	6.05	2.3816	no	-404	1811	Si
Y	SLE RA 1	4.04	2.1452	no	-375	1570	Si

5.1.1.4.4 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	wd	Verifica
X	SLE FR 1	11.88	2.1452	no	0	Si
X	SLE FR 2	12.14	2.1858	no	0	Si
X	SLE FR 3	12.07	2.2567	no	0	Si
X	SLE FR 4	11.76	2.2634	no	0	Si
Y	SLE FR 1	4.04	2.1452	no	0	Si

5.1.1.4.5 Famiglia di combinazioni Famiglia "Esercizio quasi permanente"

Si stampano le situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 56.11

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	σC	wd	Verifica
Y	SLE QP 2	4.64	2.2161	no	-384	0	Si
Y	SLE QP 1	4.04	2.1452	no	-375	0	Si
X	SLE QP 2	11.8	2.2161	no	-327	0	Si
X	SLE QP 1	11.88	2.1452	no	-313	0	Si

5.1.1.4.6 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 2

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLV FO 16	-286.65	-12.24	8.33	-50.318	124.2369	89.67	18.205	179.53	36.4494	Si
X	SLV FO 15	-286.65	-13.06	7.31	-48.4295	122.1046	87.42	17.6066	180.49	36.3511	Si
Y	SLV FO 16	-286.65	-12.24	8.33	-50.318	124.2369	45.45	18.205	108.93	43.6274	Si
Y	SLV FO 15	-286.65	-13.06	7.31	-48.4295	122.1046	43.26	17.6066	107.54	43.7679	Si
X	SLV FO 14	-286.65	-22.36	17.31	-12.5788	117.0465	77.03	13.3198	199.14	34.4325	Si

5.1.1.4.7 Verifiche delle pareti nel funzionamento tirante-puntone

Non solo le armature di spigolo sono prese in conto in verifica.

Armatura verticale 40 diam.16 mm (16 di spigolo 12 di parete X 12 di parete Y)

Spessore puntoni 0.25

5.1.1.4.8 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 24.66

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLU 18	7.26	2.81	-6.8078	18.8653	39	19.88	25.42	1520.34	15.83	0.001407	39	7.3	9.34	1520.34	5.81	0.001407	15378	379203	Si
SLU 20	6.8	3.14	-7.4667	17.8799	39	18.79	24.02	1520.34	14.96	0.001407	39	8.06	10.3	1520.34	6.41	0.001407	15186	379203	Si
SLU 8	7.47	2.12	-5.2071	19.3654	39	20.43	26.11	1520.34	16.26	0.001407	39	5.57	7.11	1520.34	4.43	0.001407	14702	379203	Si
SLU 19	6.4	3.12	-7.3044	16.9877	39	17.81	22.76	1520.34	14.18	0.001407	39	7.91	10.11	1520.34	6.3	0.001407	14547	379203	Si
SLU 10	7.02	2.45	-5.8661	18.3799	39	19.33	24.71	1520.34	15.39	0.001407	39	6.32	8.08	1520.34	5.03	0.001407	14510	379203	Si

5.1.1.4.9 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 4.96

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLV FO 16	-12.24	8.33	-50.318	124.2369	39	89.67	114.61	1520.34	71.38	0.001407	39	45.45	58.1	1520.34	36.19	0.001407	76429	379203	Si
SLV FO 15	-13.06	7.31	-48.4295	122.1046	39	87.42	111.74	1520.34	69.59	0.001407	39	43.26	55.29	1520.34	34.44	0.001407	73916	379203	Si
SLV FO 12	14.71	-9.77	-75.4706	56.1913	39	54.47	69.63	1520.34	43.37	0.001407	39	52.86	67.57	1520.34	42.08	0.001407	60714	379203	Si
SLV FO 11	14.36	-10.22	-74.6536	55.2689	39	53.5	68.39	1520.34	42.59	0.001407	39	51.91	66.36	1520.34	41.33	0.001407	59627	379203	Si
SLV FO 1	20.75	-4.71	41.7113	-101.7409	39	66.06	84.43	1520.34	52.59	0.001407	39	36.17	46.23	1520.34	28.79	0.001407	57821	379203	Si

5.1.1.4.10 Verifiche della sezione anulare di base

Armature verticali 40 diam.16 mm

5.1.1.4.11 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 248.15

Coefficiente di sicurezza minimo a taglio 108.32

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLU 18	-109	-4.1411	25.7606	248.15	7.26	2.81	234.86	234.86	823.43	823.43	2910.99	2910.99	Si
SLU 20	-108.99	-4.4791	24.3397	253.48	6.8	3.14	234.86	234.86	823.43	823.43	2910.98	2910.98	Si
SLU 17	-103.26	-3.0383	26.1	255.36	7.39	1.95	234.43	234.43	823.43	823.43	2910.34	2910.34	Si
SLU 8	-97.35	-3.1963	26.4652	261.38	7.47	2.12	233.99	233.99	823.43	823.43	2909.67	2909.67	Si
SLU 19	-106.53	-4.3445	23.0642	262.46	6.4	3.12	234.68	234.68	823.43	823.43	2910.71	2910.71	Si
SLU 7	-91.61	-2.0935	26.8045	268.69	7.6	1.26	233.56	233.56	823.43	823.43	2909.03	2909.03	Si
SLU 10	-97.35	-3.5343	25.0442	267.79	7.02	2.45	233.99	233.99	823.43	823.43	2909.67	2909.67	Si

5.1.1.4.12 Famiglia "Esercizio rara"

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 178.56

Comb.	N	Mx	My	Fessurata	σC	σF	Verifica
SLE RA 3	-85.36	-3.1806	16.8606	no	-161	-104	Si
SLE RA 5	-85.36	-3.406	15.9133	no	-158	-118	Si
SLE RA 2	-81.54	-2.4454	17.0869	no	-155	-92	Si
SLE RA 4	-83.72	-3.3162	15.063	no	-153	-126	Si
SLE RA 1	-78.25	-2.2659	15.3862	no	-145	-109	Si

5.1.1.4.13 Famiglia "Esercizio frequente"

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	wd	Verifica
SLE FR 1	-78.25	-2.2659	15.3862	no	0	Si
SLE FR 2	-78.91	-2.3018	15.7263	no	0	Si
SLE FR 3	-80.55	-2.6169	15.6294	no	0	Si
SLE FR 4	-80.99	-2.7911	15.2246	no	0	Si

5.1.1.4.14 Famiglia "Esercizio quasi permanente"

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 146.32

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	σC	wd	Verifica
SLE QP 2	-79.89	-2.581	15.2892	no	-147	0	Si
SLE QP 1	-78.25	-2.2659	15.3862	no	-145	0	Si

5.1.1.4.15 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 25.36

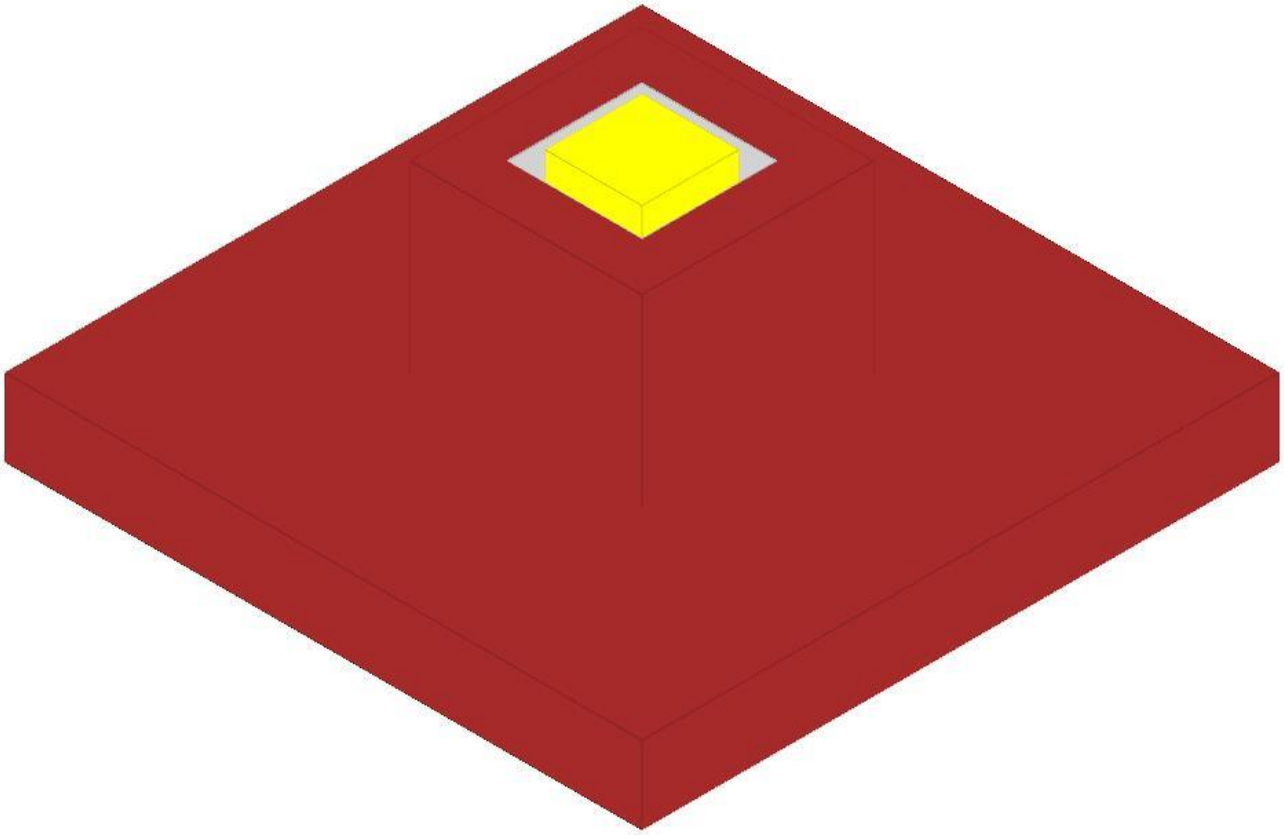
Coefficiente di sicurezza minimo a taglio 25.99

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLV FO 16	-79.89	-42.4017	112.6098	25.36	-12.24	8.33	232.68	232.68	823.43	823.43	2907.71	2907.71	Si
SLV FO 15	-79.89	-41.4858	109.699	26.39	-13.06	7.31	232.68	232.68	823.43	823.43	2907.71	2907.71	Si
SLV FO 12	-79.89	-84.7545	70.1656	33.13	14.71	-9.77	232.68	232.68	823.43	823.43	2907.71	2907.71	Si
SLV FO 11	-79.89	-84.3583	68.9064	33.61	14.36	-10.22	232.68	232.68	823.43	823.43	2907.71	2907.71	Si
SLV FO 14	-79.89	3.862	95.8051	34.48	-22.36	17.31	232.68	232.68	823.43	823.43	2907.71	2907.71	Si
SLV FO 4	-79.89	-9.94	-62.3158	78.9	31.69	-12.66	232.68	232.68	823.43	823.43	2907.71	2907.71	Si
SLV FO 3	-79.89	-9.024	-65.2266	71.73	30.87	-13.68	232.68	232.68	823.43	823.43	2907.71	2907.71	Si
SLV FO 8	-79.89	-75.016	17.6879	52.42	27.89	-16.07	232.68	232.68	823.43	823.43	2907.71	2907.71	Si
SLV FO 7	-79.89	-74.6197	16.4287	53.15	27.53	-16.51	232.68	232.68	823.43	823.43	2907.71	2907.71	Si
SLV FO 13	-79.89	4.7779	92.8942	36.33	-23.18	16.28	232.68	232.68	823.43	823.43	2907.71	2907.71	Si

5.1.2 Plinto 8

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.2.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.2.2 Caratteristiche geometriche

Suola: dimensione x: 3.3; dimensione y: 3.3; spessore: 0.4
Dado: dimensione x: 1.2; dimensione y: 1.2; spessore: 0.95
Bicchiere: dimensione x: 0.7; dimensione y: 0.7; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.5; dimensione y: 0.5
Copriferri: suola: 0.075; dado: 0.04

5.1.2.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 17 diam. 14 mm Armatura superiore in direzione X 9 diam. 8 mm
Armatura inferiore in direzione Y 17 diam. 14 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.2.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 4.3

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X+	filo ris.	SLU 18	84.6684	364.4279	Si
norm.Y+	filo ris.	SLU 20	81.6549	352.0015	Si
norm.Y+	filo ris.	SLU 18	81.5396	352.0015	Si
norm.X+	filo ris.	SLU 20	84.2266	364.4279	Si
norm.Y+	filo ris.	SLU 19	79.467	352.0015	Si

5.1.2.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 41.49

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.X+	filo ris.	SLE RA 3	61.4067	no	-692	2231	Si
norm.X+	filo ris.	SLE RA 5	61.1122	no	-689	2221	Si
norm.Y+	filo ris.	SLE RA 5	59.7396	no	-675	1919	Si
norm.Y+	filo ris.	SLE RA 3	59.6628	no	-674	1916	Si
norm.X+	filo ris.	SLE RA 4	59.5098	no	-671	2162	Si

5.1.2.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	95.7585	no	0	Si
norm.Y-	filo ris.	SLE FR 2	50.9148	no	0	Si
norm.Y-	filo ris.	SLE FR 1	50.3571	no	0	Si
norm.Y-	filo pil.	SLE FR 4	91.3647	no	0	Si
norm.Y-	filo pil.	SLE FR 3	91.0131	no	0	Si

5.1.2.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 33.85

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.X+	filo ris.	SLE QP 2	56.4582	no	-636	0	Si
norm.X+	filo ris.	SLE QP 1	55.1503	no	-622	0	Si
norm.Y+	filo ris.	SLE QP 2	54.6984	no	-618	0	Si
norm.Y+	filo ris.	SLE QP 1	53.163	no	-600	0	Si
norm.Y-	filo ris.	SLE QP 2	51.4732	no	-581	0	Si

5.1.2.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a flessione 5.33

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y+	filo ris.	SLV FO 12	66.0446	352.0015	Si
norm.Y+	filo ris.	SLV FO 11	65.7069	352.0015	Si
norm.Y+	filo ris.	SLV FO 8	64.4177	352.0015	Si
norm.Y+	filo ris.	SLV FO 7	64.0801	352.0015	Si
norm.Y-	filo ris.	SLV FO 5	62.8194	352.0015	Si

5.1.2.4 Verifiche del bicchiere

5.1.2.4.1 Verifiche delle pareti per tensoflessione del bordo superiore

Sezione B=0.475 H=0.25

Armatura interna 3 diam.16 armatura esterna 3 diam.16

5.1.2.4.2 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 10.95

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLU 18	-428.51	4.48	2.8	-6.8032	17.6082	16.98	3.2705	185.87	35.7999	Si
X	SLU 20	-427.61	4.24	3.13	-7.4614	16.7201	16.11	3.2547	180.13	36.3876	Si
X	SLU 8	-370.97	4.65	2.11	-5.2037	18.065	17.46	3.101	195.79	34.7775	Si
X	SLU 10	-370.06	4.41	2.45	-5.8619	17.1769	16.59	3.0852	190.14	35.36	Si
X	SLU 17	-400.74	4.54	1.94	-4.8882	17.781	17.16	3.0123	197.27	34.6248	Si

5.1.2.4.3 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 74.88

Sezione di normale	Comb.	N	M	Fessurata	σC	σF	Verifica
Y	SLE RA 3	5.63	2.2556	no	-384	1712	Si
Y	SLE RA 5	6.13	2.2451	no	-378	1727	Si
Y	SLE RA 4	6.04	2.1609	no	-362	1668	Si
Y	SLE RA 2	4.24	2.0835	no	-362	1538	Si
X	SLE RA 5	10.53	2.2451	no	-342	1921	Si

5.1.2.4.4 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	wd	Verifica
X	SLE FR 1	10.18	1.915	no	0	Si
X	SLE FR 2	10.39	1.9487	no	0	Si
X	SLE FR 3	10.33	2.0224	no	0	Si
X	SLE FR 4	10.09	2.0379	no	0	Si
Y	SLE FR 1	4.04	1.915	no	0	Si

5.1.2.4.5 Famiglia di combinazioni Famiglia "Esercizio quasi permanente"

Si stampano le situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 63.21

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	σC	wd	Verifica
Y	SLE QP 2	4.64	1.9887	no	-341	0	Si
Y	SLE QP 1	4.04	1.915	no	-332	0	Si
X	SLE QP 2	10.12	1.9887	no	-297	0	Si
X	SLE QP 1	10.18	1.915	no	-283	0	Si

5.1.2.4.6 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 2.36

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLV FO 16	-283.59	-114.7	8.21	-50.2382	191.5636	72.38	15.8562	170.56	37.3646	Si
X	SLV FO 15	-283.59	-115.53	7.19	-48.352	188.5041	69.39	15.1587	170.89	37.3309	Si
Y	SLV FO 16	-283.59	-114.7	8.21	-50.2382	191.5636	45.31	15.8562	121.14	42.3946	Si
Y	SLV FO 15	-283.59	-115.53	7.19	-48.352	188.5041	43.12	15.1587	120.71	42.4377	Si
X	SLV FO 14	-283.59	-121.54	17.26	-12.554	188.6853	65.4	11.7461	194.42	34.9182	Si

5.1.2.4.7 Verifiche delle pareti nel funzionamento tirante-puntone

Non solo le armature di spigolo sono prese in conto in verifica.

Armatura verticale 40 diam.16 mm (16 di spigolo 12 di parete X 12 di parete Y)

Spessore puntoni 0.25

5.1.2.4.8 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 27.62

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLU 18	4.48	2.8	-6.8032	17.6082	39	16.98	21.7	1520.34	13.52	0.001407	39	7.29	9.32	1520.34	5.81	0.001407	13730	379203	Si
SLU 20	4.24	3.13	-7.4614	16.7201	39	16.11	20.59	1520.34	12.83	0.001407	39	8.04	10.28	1520.34	6.4	0.001407	13664	379203	Si
SLU 19	4.02	3.1	-7.299	15.9061	39	15.32	19.58	1520.34	12.2	0.001407	39	7.9	10.09	1520.34	6.29	0.001407	13133	379203	Si
SLU 8	4.65	2.11	-5.2037	18.065	39	17.46	22.31	1520.34	13.9	0.001407	39	5.56	7.1	1520.34	4.42	0.001407	13019	379203	Si
SLU 10	4.41	2.45	-5.8619	17.1769	39	16.59	21.2	1520.34	13.21	0.001407	39	6.31	8.06	1520.34	5.02	0.001407	12952	379203	Si

5.1.2.4.9 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 5.7

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLV FO 16	-114.7	8.21	-50.2382	191.5636	39	72.38	92.52	1520.34	57.62	0.001407	39	45.31	57.91	1520.34	36.07	0.001407	66568	379203	Si
SLV FO 15	-115.53	7.19	-48.352	188.5041	39	69.39	88.7	1520.34	55.24	0.001407	39	43.12	55.11	1520.34	34.33	0.001407	63640	379203	Si
SLV FO 12	-22.12	-9.93	-75.361	69.3986	39	39.58	50.6	1520.34	31.51	0.001407	39	52.67	67.32	1520.34	41.93	0.001407	52180	379203	Si
SLV FO 11	-22.48	-10.37	-74.545	68.0751	39	38.29	48.94	1520.34	30.48	0.001407	39	51.72	66.11	1520.34	41.17	0.001407	50913	379203	Si
SLV FO 1	120	-4.6	41.6376	-170.5311	39	52.13	66.64	1520.34	41.5	0.001407	39	36.03	46.06	1520.34	28.69	0.001407	49870	379203	Si

5.1.2.4.10 Verifiche della sezione anulare di base

Armature verticali 40 diam.16 mm

5.1.2.4.11 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 264.96

Coefficiente di sicurezza minimo a taglio 174.64

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLU 18	-108.27	-4.1459	21.8627	264.96	4.48	2.8	234.81	234.81	823.43	823.43	2910.9	2910.9	Si
SLU 20	-108.08	-4.4847	20.7441	269.58	4.24	3.13	234.79	234.79	823.43	823.43	2910.88	2910.88	Si
SLU 17	-102.71	-3.0415	22.0984	274.09	4.54	1.94	234.39	234.39	823.43	823.43	2910.28	2910.28	Si
SLU 19	-105.52	-4.3501	19.7266	278.51	4.02	3.1	234.6	234.6	823.43	823.43	2910.59	2910.59	Si
SLU 8	-96.76	-3.1999	22.4813	282.36	4.65	2.11	233.94	233.94	823.43	823.43	2909.61	2909.61	Si
SLU 7	-91.2	-2.0955	22.717	291.93	4.71	1.26	233.53	233.53	823.43	823.43	2908.98	2908.98	Si
SLU 10	-96.58	-3.5387	21.3627	287.74	4.41	2.45	233.93	233.93	823.43	823.43	2909.59	2909.59	Si

5.1.2.4.12 Famiglia "Esercizio rara"

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 190.55

Comb.	N	Mx	My	Fessurata	σC	σF	Verifica
SLE RA 3	-84.81	-3.1844	14.3002	no	-151	-149	Si
SLE RA 5	-84.69	-3.4102	13.5545	no	-149	-158	Si
SLE RA 2	-81.11	-2.4481	14.4573	no	-145	-139	Si
SLE RA 4	-82.98	-3.3205	12.8761	no	-144	-162	Si
SLE RA 1	-77.69	-2.2687	13.1006	no	-136	-148	Si

5.1.2.4.13 Famiglia "Esercizio frequente"

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	wd	Verifica
SLE FR 1	-77.69	-2.2687	13.1006	no	0	Si
SLE FR 2	-78.38	-2.3046	13.3719	no	0	Si
SLE FR 3	-79.96	-2.6201	13.3046	no	0	Si
SLE FR 4	-80.34	-2.7946	12.9883	no	0	Si

5.1.2.4.14 Famiglia "Esercizio quasi permanente"

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 155.9

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	σC	wd	Verifica
SLE QP 2	-79.28	-2.5842	13.0332	no	-138	0	Si
SLE QP 1	-77.69	-2.2687	13.1006	no	-136	0	Si

5.1.2.4.15 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 37.49

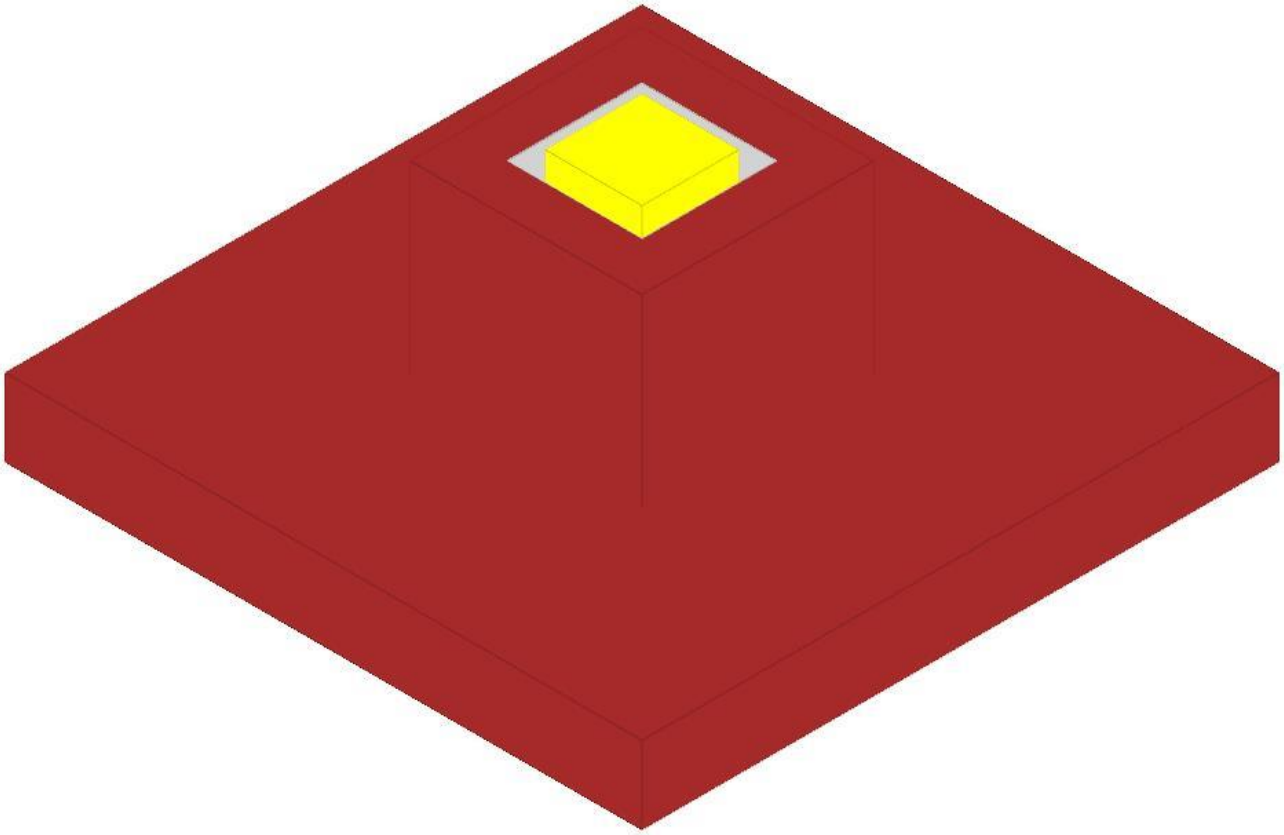
Coefficiente di sicurezza minimo a taglio 6.45

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLV FO 12	-79.28	-84.7974	48.3882	37.49	-22.12	-9.93	232.63	232.63	823.43	823.43	2907.64	2907.64	Si
SLV FO 11	-79.28	-84.4002	46.7225	38.06	-22.48	-10.37	232.63	232.63	823.43	823.43	2907.64	2907.64	Si
SLV FO 16	-79.28	-42.4374	82.6023	40.04	-114.7	8.21	232.63	232.63	823.43	823.43	2907.64	2907.64	Si
SLV FO 15	-79.28	-41.5191	78.7521	43.29	-115.53	7.19	232.63	232.63	823.43	823.43	2907.64	2907.64	Si
SLV FO 5	-79.28	79.629	-22.3217	46	27.42	13.55	232.63	232.63	823.43	823.43	2907.64	2907.64	Si
SLV FO 4	-79.28	-9.9327	-43.3039	161.59	127.67	-12.63	232.63	232.63	823.43	823.43	2907.64	2907.64	Si
SLV FO 3	-79.28	-9.0143	-47.1542	140.67	126.84	-13.65	232.63	232.63	823.43	823.43	2907.64	2907.64	Si
SLV FO 13	-79.28	4.7642	69.3703	62.97	-122.37	16.24	232.63	232.63	823.43	823.43	2907.64	2907.64	Si
SLV FO 14	-79.28	3.8459	73.2206	56.44	-121.54	17.26	232.63	232.63	823.43	823.43	2907.64	2907.64	Si
SLV FO 2	-79.28	36.3507	-52.6856	80.63	120.83	-3.58	232.63	232.63	823.43	823.43	2907.64	2907.64	Si

5.1.3 Plinto 9

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.3.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.3.2 Caratteristiche geometriche

Suola: dimensione x: 3.3; dimensione y: 3.3; spessore: 0.4
Dado: dimensione x: 1.2; dimensione y: 1.2; spessore: 0.95
Bicchiere: dimensione x: 0.7; dimensione y: 0.7; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.5; dimensione y: 0.5
Copriferri: suola: 0.075; dado: 0.04

5.1.3.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 17 diam. 14 mm Armatura superiore in direzione X 9 diam. 8 mm
Armatura inferiore in direzione Y 17 diam. 14 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.3.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 4.24

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X+	filo ris.	SLU 18	86.0046	364.4279	Si
norm.Y+	filo ris.	SLU 20	82.95	352.0015	Si
norm.Y+	filo ris.	SLU 18	82.7551	352.0015	Si
norm.X+	filo ris.	SLU 20	85.6512	364.4279	Si
norm.Y+	filo ris.	SLU 19	80.8245	352.0015	Si

5.1.3.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 40.79

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.X+	filo ris.	SLE RA 3	62.4603	no	-704	2270	Si
norm.X+	filo ris.	SLE RA 5	62.2247	no	-701	2261	Si
norm.Y+	filo ris.	SLE RA 5	60.7405	no	-686	1951	Si
norm.Y+	filo ris.	SLE RA 3	60.6105	no	-685	1947	Si
norm.X+	filo ris.	SLE RA 4	60.6625	no	-684	2204	Si

5.1.3.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	97.6835	no	0	Si
norm.Y-	filo ris.	SLE FR 2	51.9055	no	0	Si
norm.Y-	filo ris.	SLE FR 1	51.3645	no	0	Si
norm.Y-	filo pil.	SLE FR 4	93.191	no	0	Si
norm.Y-	filo pil.	SLE FR 3	92.7955	no	0	Si

5.1.3.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 33.19

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.X+	filo ris.	SLE QP 2	57.5673	no	-649	0	Si
norm.X+	filo ris.	SLE QP 1	56.2407	no	-634	0	Si
norm.Y+	filo ris.	SLE QP 2	55.7139	no	-629	0	Si
norm.Y+	filo ris.	SLE QP 1	54.167	no	-612	0	Si
norm.Y-	filo ris.	SLE QP 2	52.4926	no	-593	0	Si

5.1.3.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a flessione 5.25

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y+	filo ris.	SLV FO 12	67.0002	352.0015	Si
norm.Y+	filo ris.	SLV FO 11	66.6636	352.0015	Si
norm.Y+	filo ris.	SLV FO 8	65.5147	352.0015	Si
norm.Y+	filo ris.	SLV FO 7	65.1781	352.0015	Si
norm.Y-	filo ris.	SLV FO 5	63.786	352.0015	Si

5.1.3.4 Verifiche del bicchiere

5.1.3.4.1 Verifiche delle pareti per tensoflessione del bordo superiore

Sezione B=0.475 H=0.25

Armatura interna 3 diam.16 armatura esterna 3 diam.16

5.1.3.4.2 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 10.8

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLU 18	-435.81	4.73	2.79	-6.8	17.7581	17.27	3.309	186.53	35.7325	Si
X	SLU 20	-435.38	4.51	3.13	-7.4578	16.8768	16.42	3.2957	180.94	36.3058	Si
X	SLU 8	-376.4	4.79	2.1	-5.2013	18.1381	17.61	3.1207	196.08	34.7479	Si
X	SLU 17	-407.78	4.75	1.94	-4.8862	17.8931	17.39	3.0428	197.68	34.5825	Si
X	SLU 10	-375.98	4.56	2.44	-5.8591	17.2568	16.76	3.1074	190.52	35.321	Si

5.1.3.4.3 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 73.63

Sezione di normale	Comb.	N	M	Fessurata	σC	σF	Verifica
Y	SLE RA 3	5.63	2.2897	no	-390	1733	Si
Y	SLE RA 5	6.13	2.2808	no	-384	1750	Si
Y	SLE RA 4	6.03	2.1959	no	-369	1690	Si
Y	SLE RA 2	4.23	2.1122	no	-367	1557	Si
X	SLE RA 5	10.8	2.2808	no	-347	1956	Si

5.1.3.4.4 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	wd	Verifica
X	SLE FR 1	10.38	1.9423	no	0	Si
X	SLE FR 2	10.6	1.9763	no	0	Si
X	SLE FR 3	10.56	2.0524	no	0	Si
X	SLE FR 4	10.33	2.0691	no	0	Si
Y	SLE FR 1	4.03	1.9423	no	0	Si

5.1.3.4.5 Famiglia di combinazioni Famiglia "Esercizio quasi permanente"

Si stampano le situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 62.17

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	σC	wd	Verifica
Y	SLE QP 2	4.63	2.0184	no	-346	0	Si
Y	SLE QP 1	4.03	1.9423	no	-337	0	Si
X	SLE QP 2	10.35	2.0184	no	-301	0	Si
X	SLE QP 1	10.38	1.9423	no	-286	0	Si

5.1.3.4.6 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 2.19

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLV FO 16	-289.42	-132.68	8.14	-50.1894	216.7296	79.88	16.8548	174.96	36.9156	Si
X	SLV FO 15	-289.43	-133.71	7.12	-48.3048	212.6597	75.97	16.0325	174.93	36.9188	Si
Y	SLV FO 16	-289.42	-132.68	8.14	-50.1894	216.7296	45.22	16.8548	115.31	42.9829	Si
Y	SLV FO 15	-289.43	-133.71	7.12	-48.3048	212.6597	43.03	16.0325	115.35	42.9786	Si
X	SLV FO 14	-289.44	-140.5	17.23	-12.536	213.965	72.33	12.6742	197.47	34.604	Si

5.1.3.4.7 Verifiche delle pareti nel funzionamento tirante-puntone

Non solo le armature di spigolo sono prese in conto in verifica.

Armatura verticale 40 diam.16 mm (16 di spigolo 12 di parete X 12 di parete Y)

Spessore puntoni 0.25

5.1.3.4.8 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 27.3

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLU 18	4.73	2.79	-6.8	17.7581	39	17.27	22.08	1520.34	13.75	0.001407	39	7.29	9.31	1520.34	5.8	0.001407	13892	379203	Si
SLU 20	4.51	3.13	-7.4578	16.8768	39	16.42	20.99	1520.34	13.08	0.001407	39	8.04	10.27	1520.34	6.4	0.001407	13836	379203	Si
SLU 19	4.3	3.1	-7.2954	16.0534	39	15.63	19.97	1520.34	12.44	0.001407	39	7.89	10.08	1520.34	6.28	0.001407	13301	379203	Si
SLU 8	4.79	2.1	-5.2013	18.1381	39	17.61	22.51	1520.34	14.02	0.001407	39	5.55	7.1	1520.34	4.42	0.001407	13101	379203	Si
SLU 10	4.56	2.44	-5.8591	17.2568	39	16.76	21.42	1520.34	13.34	0.001407	39	6.3	8.06	1520.34	5.02	0.001407	13046	379203	Si

5.1.3.4.9 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 5.36

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLV FO 16	-132.68	8.14	-50.1894	216.7296	39	79.88	102.11	1520.34	63.59	0.001407	39	45.22	57.79	1520.34	36	0.001407	70760	379203	Si
SLV FO 15	-133.71	7.12	-48.3048	212.6597	39	75.97	97.1	1520.34	60.48	0.001407	39	43.03	55	1520.34	34.26	0.001407	67308	379203	Si
SLV FO 12	-25.88	-10.03	-75.2982	76.918	39	42.93	54.87	1520.34	34.18	0.001407	39	52.55	67.17	1520.34	41.84	0.001407	54008	379203	Si
SLV FO 1	138.39	-4.53	41.593	-195.4829	39	59.19	75.65	1520.34	47.12	0.001407	39	35.95	45.95	1520.34	28.62	0.001407	53813	379203	Si
SLV FO 14	-140.5	17.23	-12.536	213.965	39	72.33	92.45	1520.34	57.58	0.001407	39	21.74	27.79	1520.34	17.31	0.001407	53209	379203	Si

5.1.3.4.10 Verifiche della sezione anulare di base

Armature verticali 40 diam.16 mm

5.1.3.4.11 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 261.11

Coefficiente di sicurezza minimo a taglio 171.38

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLU 18	-109.72	-4.1492	22.2538	261.11	4.73	2.79	234.92	234.92	823.43	823.43	2911.07	2911.07	Si
SLU 20	-109.64	-4.4885	21.1615	265.33	4.51	3.13	234.91	234.91	823.43	823.43	2911.06	2911.06	Si
SLU 17	-104.12	-3.0437	22.4074	270.39	4.75	1.94	234.5	234.5	823.43	823.43	2910.44	2910.44	Si
SLU 19	-107.15	-4.3539	20.1349	273.9	4.3	3.1	234.72	234.72	823.43	823.43	2910.78	2910.78	Si
SLU 8	-97.84	-3.2024	22.6841	279.52	4.79	2.1	234.03	234.03	823.43	823.43	2909.73	2909.73	Si
SLU 7	-92.24	-2.0968	22.8377	289.46	4.8	1.25	233.6	233.6	823.43	823.43	2909.1	2909.1	Si
SLU 10	-97.76	-3.5416	21.5918	284.48	4.56	2.44	234.02	234.02	823.43	823.43	2909.72	2909.72	Si

5.1.3.4.12 Famiglia "Esercizio rara"

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 187.52

Comb.	N	Mx	My	Fessurata	σC	σF	Verifica
SLE RA 3	-85.95	-3.187	14.6446	no	-153	-149	Si
SLE RA 5	-85.89	-3.4131	13.9164	no	-151	-158	Si
SLE RA 2	-82.21	-2.4499	14.747	no	-147	-140	Si
SLE RA 4	-84.24	-3.3234	13.232	no	-147	-163	Si
SLE RA 1	-78.9	-2.2705	13.3783	no	-138	-150	Si

5.1.3.4.13 Famiglia "Esercizio frequente"

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	wd	Verifica
SLE FR 1	-78.9	-2.2705	13.3783	no	0	Si
SLE FR 2	-79.56	-2.3064	13.652	no	0	Si
SLE FR 3	-81.16	-2.6223	13.6081	no	0	Si
SLE FR 4	-81.57	-2.797	13.3051	no	0	Si

5.1.3.4.14 Famiglia "Esercizio quasi permanente"

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 153.28

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	σC	wd	Verifica
SLE QP 2	-80.5	-2.5864	13.3344	no	-141	0	Si
SLE QP 1	-78.9	-2.2705	13.3783	no	-138	0	Si

5.1.3.4.15 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 35.08

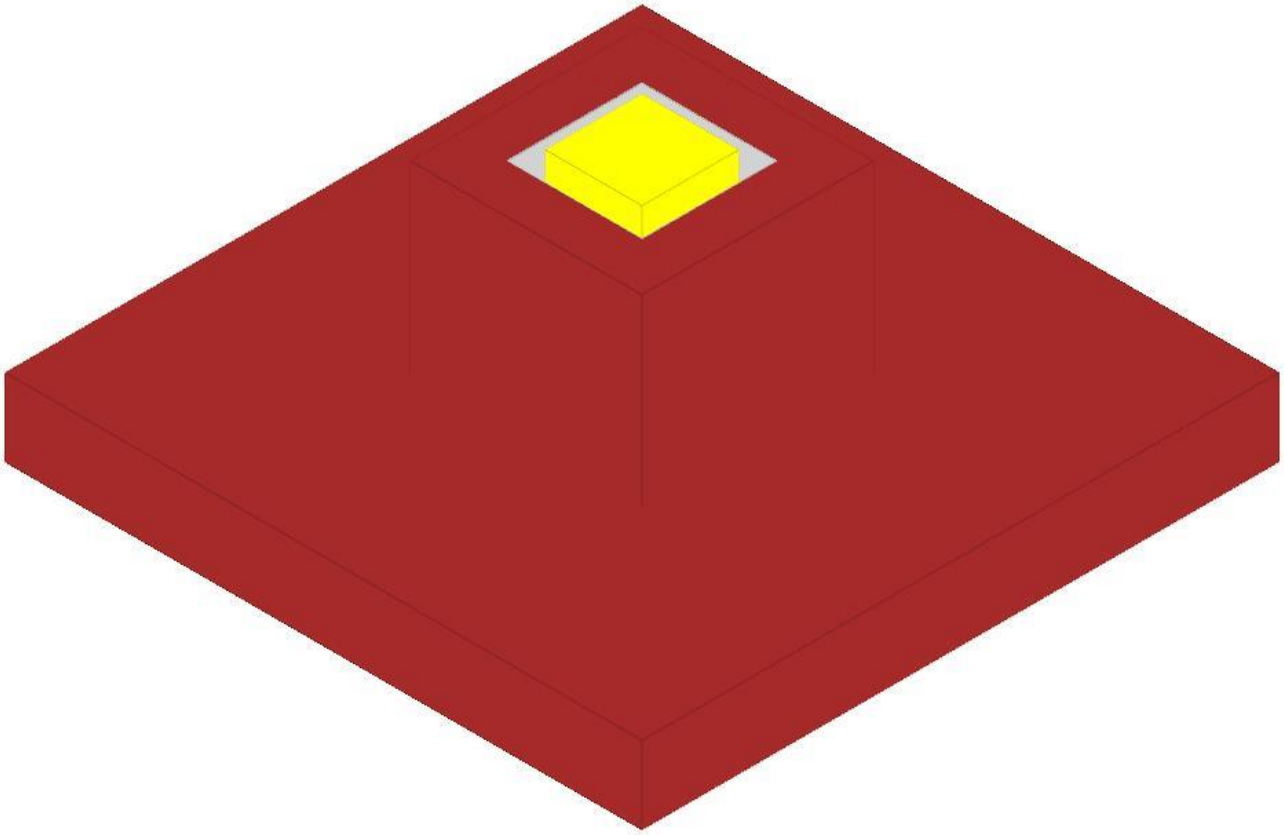
Coefficiente di sicurezza minimo a taglio 5.59

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLV FO 16	-80.45	-42.4609	90.6814	35.08	-132.68	8.14	232.72	232.72	823.43	823.43	2907.77	2907.77	Si
SLV FO 12	-80.48	-84.8231	52.3276	37.12	-25.88	-10.03	232.72	232.72	823.43	823.43	2907.78	2907.78	Si
SLV FO 11	-80.48	-84.4251	50.1457	37.77	-26.33	-10.47	232.72	232.72	823.43	823.43	2907.78	2907.78	Si
SLV FO 15	-80.45	-41.541	85.6379	38.41	-133.71	7.12	232.72	232.72	823.43	823.43	2907.77	2907.77	Si
SLV FO 5	-80.52	79.6503	-25.6588	46.01	31.59	13.63	232.73	232.73	823.43	823.43	2907.78	2907.78	Si
SLV FO 4	-80.55	-9.9263	-48.7792	132.74	147.23	-12.61	232.73	232.73	823.43	823.43	2907.78	2907.78	Si
SLV FO 3	-80.55	-9.0063	-53.8227	109.38	146.21	-13.63	232.73	232.73	823.43	823.43	2907.78	2907.78	Si
SLV FO 13	-80.45	4.7535	75.4479	53.85	-141.52	16.22	232.72	232.72	823.43	823.43	2907.77	2907.77	Si
SLV FO 14	-80.45	3.8336	80.4915	47.48	-140.5	17.23	232.72	232.72	823.43	823.43	2907.77	2907.77	Si
SLV FO 2	-80.55	36.3682	-58.9691	69.25	139.41	-3.52	232.73	232.73	823.43	823.43	2907.79	2907.79	Si

5.1.4 Plinto 10

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.4.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.4.2 Caratteristiche geometriche

Suola: dimensione x: 3.3; dimensione y: 3.3; spessore: 0.4
Dado: dimensione x: 1.2; dimensione y: 1.2; spessore: 0.95
Bicchiere: dimensione x: 0.7; dimensione y: 0.7; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.5; dimensione y: 0.5
Copriferri: suola: 0.075; dado: 0.04

5.1.4.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 17 diam. 14 mm Armatura superiore in direzione X 9 diam. 8 mm
Armatura inferiore in direzione Y 17 diam. 14 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.4.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 5.64

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X+	filo ris.	SLU 18	64.6347	364.4279	Si
norm.X+	filo ris.	SLU 20	64.4404	364.4279	Si
norm.X+	filo ris.	SLU 19	63.2422	364.4279	Si
norm.X+	filo ris.	SLU 17	62.2923	364.4279	Si
norm.Y+	filo ris.	SLU 20	59.8525	352.0015	Si

5.1.4.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 54.16

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.X+	filo ris.	SLE RA 3	47.0414	no	-530	1709	Si
norm.X+	filo ris.	SLE RA 5	46.9118	no	-529	1705	Si
norm.X+	filo ris.	SLE RA 4	46.113	no	-520	1676	Si
norm.X+	filo ris.	SLE RA 2	45.4797	no	-513	1653	Si
norm.Y+	filo ris.	SLE RA 5	44.1055	no	-498	1417	Si

5.1.4.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	75.5173	no	0	Si
norm.Y-	filo ris.	SLE FR 2	37.993	no	0	Si
norm.Y-	filo ris.	SLE FR 1	37.7835	no	0	Si
norm.Y-	filo pil.	SLE FR 4	67.0713	no	0	Si
norm.Y-	filo pil.	SLE FR 3	66.8766	no	0	Si

5.1.4.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 42.89

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.X+	filo ris.	SLE QP 2	44.5513	no	-502	0	Si
norm.X+	filo ris.	SLE QP 1	43.882	no	-495	0	Si
norm.Y+	filo ris.	SLE QP 2	41.4642	no	-468	0	Si
norm.Y+	filo ris.	SLE QP 1	40.5843	no	-458	0	Si
norm.Y-	filo ris.	SLE QP 2	38.2449	no	-432	0	Si

5.1.4.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a flessione 5.8

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X+	filo ris.	SLV FO 16	62.8748	364.4279	Si
norm.X+	filo ris.	SLV FO 15	61.2102	364.4279	Si
norm.X+	filo ris.	SLV FO 14	60.2323	364.4279	Si
norm.X+	filo ris.	SLV FO 13	58.5677	364.4279	Si
norm.Y+	filo ris.	SLV FO 12	54.6227	352.0015	Si

5.1.4.4 Verifiche del bicchiere

5.1.4.4.1 Verifiche delle pareti per tensoflessione del bordo superiore

Sezione B=0.475 H=0.25

Armatura interna 3 diam.16 armatura esterna 3 diam.16

5.1.4.4.2 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 8.83

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLU 18	-296.09	9.25	2.79	-6.7984	19.8859	22.06	3.9533	194.69	34.8909	Si
X	SLU 20	-297.12	8.84	3.12	-7.4559	18.9131	21.01	3.9125	189.96	35.3789	Si
X	SLU 8	-253.34	8.98	2.1	-5.2001	20.0953	22.04	3.7174	202.25	34.1112	Si
X	SLU 17	-282.04	9.2	1.94	-4.8851	19.9729	22.09	3.6758	203.97	33.9343	Si
X	SLU 10	-254.37	8.57	2.44	-5.8576	19.1225	20.99	3.6766	197.52	34.5991	Si

5.1.4.4.3 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 60.38

Sezione di normale	Comb.	N	M	Fessurata	σC	σF	Verifica
Y	SLE RA 3	5.63	2.7404	no	-476	2026	Si
Y	SLE RA 5	6.13	2.7132	no	-466	2030	Si
Y	SLE RA 2	4.23	2.5554	no	-452	1844	Si
Y	SLE RA 4	6.03	2.6067	no	-447	1957	Si
Y	SLE RA 1	4.03	2.3423	no	-413	1697	Si

5.1.4.4.4 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	wd	Verifica
X	SLE FR 1	13.35	2.3423	no	0	Si
X	SLE FR 2	13.63	2.385	no	0	Si
X	SLE FR 3	13.62	2.4642	no	0	Si
X	SLE FR 4	13.34	2.4745	no	0	Si
Y	SLE FR 1	4.03	2.3423	no	0	Si

5.1.4.4.5 Famiglia di combinazioni Famiglia "Esercizio quasi permanente"

Si stampano le situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 50.91

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	σC	wd	Verifica
Y	SLE QP 2	4.63	2.4216	no	-423	0	Si
Y	SLE QP 1	4.03	2.3423	no	-413	0	Si
X	SLE QP 2	13.34	2.4216	no	-354	0	Si
X	SLE QP 1	13.35	2.3423	no	-338	0	Si

5.1.4.4.6 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 1.96

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLV FO 16	-203.29	-40.49	8.1	-50.1706	152.5491	92.6	18.5632	181.05	36.2943	Si
X	SLV FO 15	-203.31	-41.84	7.09	-48.2868	147.405	87.61	17.5962	180.82	36.318	Si
Y	SLV FO 16	-203.29	-40.49	8.1	-50.1706	152.5491	45.18	18.5632	106.72	43.8498	Si
X	SLV FO 14	-203.37	-48.91	17.21	-12.5261	147.0757	82.49	14.0399	201.1	34.2297	Si
Y	SLV FO 15	-203.31	-41.84	7.09	-48.2868	147.405	43	17.5962	107.06	43.8156	Si

5.1.4.4.7 Verifiche delle pareti nel funzionamento tirante-puntone

Non solo le armature di spigolo sono prese in conto in verifica.

Armatura verticale 40 diam.16 mm (16 di spigolo 12 di parete X 12 di parete Y)

Spessore puntoni 0.25

5.1.4.4.8 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 22.85

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLU 18	9.25	2.79	-6.7984	19.8859	39	22.06	28.2	1520.34	17.56	0.001407	39	7.28	9.31	1520.34	5.8	0.001407	16597	379203	Si
SLU 20	8.84	3.12	-7.4559	18.9131	39	21.01	26.85	1520.34	16.72	0.001407	39	8.03	10.27	1520.34	6.39	0.001407	16425	379203	Si
SLU 19	8.4	3.09	-7.2935	17.9775	39	19.97	25.52	1520.34	15.9	0.001407	39	7.88	10.08	1520.34	6.28	0.001407	15755	379203	Si
SLU 8	8.98	2.1	-5.2001	20.0953	39	22.04	28.17	1520.34	17.55	0.001407	39	5.55	7.09	1520.34	4.42	0.001407	15607	379203	Si
SLU 10	8.57	2.44	-5.8576	19.1225	39	20.99	26.83	1520.34	16.71	0.001407	39	6.3	8.05	1520.34	5.01	0.001407	15435	379203	Si

5.1.4.4.9 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 4.87

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLV FO 16	-40.49	8.1	-50.1706	152.5491	39	92.6	118.36	1520.34	73.72	0.001407	39	45.18	57.75	1520.34	35.97	0.001407	77932	379203	Si
SLV FO 15	-41.84	7.09	-48.2868	147.405	39	87.61	111.98	1520.34	69.74	0.001407	39	43	54.96	1520.34	34.23	0.001407	73873	379203	Si
SLV FO 12	4.7	-10.05	-75.2782	62.772	39	52.79	67.48	1520.34	42.03	0.001407	39	52.52	67.13	1520.34	41.81	0.001407	59566	379203	Si
SLV FO 14	-48.91	17.21	-12.5261	147.0757	39	82.49	105.43	1520.34	65.67	0.001407	39	21.72	27.76	1520.34	17.29	0.001407	58943	379203	Si
SLV FO 11	4.12	-10.49	-74.4633	60.5466	39	50.63	64.71	1520.34	40.31	0.001407	39	51.57	65.92	1520.34	41.06	0.001407	57810	379203	Si

5.1.4.4.10 Verifiche della sezione anulare di base

Armature verticali 40 diam.16 mm

5.1.4.4.11 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 264.84

Coefficiente di sicurezza minimo a taglio 89.01

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLU 18	-81.78	-4.1509	28.674	264.84	9.25	2.79	232.82	232.82	823.43	823.43	2907.92	2907.92	Si
SLU 17	-78.97	-3.0448	28.7142	269.07	9.2	1.94	232.61	232.61	823.43	823.43	2907.61	2907.61	Si
SLU 20	-81.99	-4.4904	27.3082	273.3	8.84	3.12	232.84	232.84	823.43	823.43	2907.95	2907.95	Si
SLU 8	-73.23	-3.2037	28.6301	273.96	8.98	2.1	232.18	232.18	823.43	823.43	2906.96	2906.96	Si
SLU 7	-70.42	-2.0976	28.6704	277.19	8.93	1.25	231.97	231.97	823.43	823.43	2906.65	2906.65	Si

5.1.4.4.12 Famiglia "Esercizio rara"

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 191.78

Comb.	N	Mx	My	Fessurata	σC	σF	Verifica
SLE RA 3	-65.84	-3.1883	19.1355	no	-150	47	Si
SLE RA 5	-65.98	-3.4146	18.225	no	-147	33	Si
SLE RA 2	-63.97	-2.4509	19.1623	no	-145	44	Si
SLE RA 4	-65.31	-3.3249	17.3259	no	-143	19	Si
SLE RA 1	-62.64	-2.2715	17.3643	no	-136	15	Si

5.1.4.4.13 Famiglia "Esercizio frequente"

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	wd	Verifica
SLE FR 1	-62.64	-2.2715	17.3643	no	0	Si
SLE FR 2	-62.9	-2.3074	17.7239	no	0	Si
SLE FR 3	-63.71	-2.6234	17.7124	no	0	Si
SLE FR 4	-63.97	-2.7982	17.3451	no	0	Si

5.1.4.4.14 Famiglia "Esercizio quasi permanente"

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 155.62

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	σC	wd	Verifica
SLE QP 2	-63.44	-2.5875	17.3528	no	-138	0	Si
SLE QP 1	-62.64	-2.2715	17.3643	no	-136	0	Si

5.1.4.4.15 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 22.51

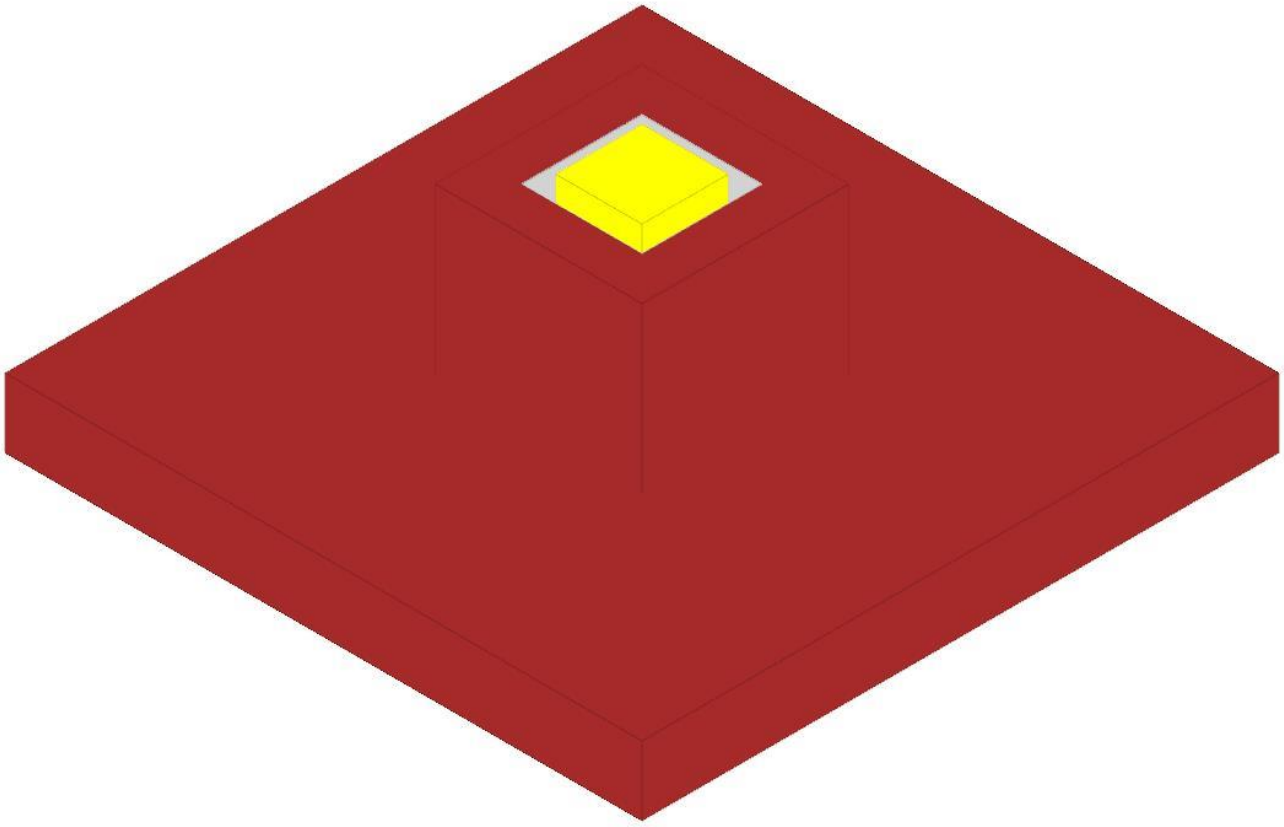
Coefficiente di sicurezza minimo a taglio 13.36

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLV FO 16	-63.22	-42.471	114.0863	22.51	-40.49	8.1	231.43	231.43	823.43	823.43	2905.84	2905.84	Si
SLV FO 15	-63.22	-41.5502	107.655	24.32	-41.84	7.09	231.43	231.43	823.43	823.43	2905.84	2905.84	Si
SLV FO 14	-63.24	3.8237	100.6094	27.88	-48.91	17.21	231.43	231.43	823.43	823.43	2905.84	2905.84	Si
SLV FO 12	-63.35	-84.8273	67.2393	30.09	4.7	-10.05	231.44	231.44	823.43	823.43	2905.85	2905.85	Si
SLV FO 11	-63.35	-84.4289	64.4571	30.74	4.12	-10.49	231.44	231.44	823.43	823.43	2905.85	2905.85	Si
SLV FO 4	-63.64	-9.9196	-59.4726	67.47	61.64	-12.6	231.46	231.46	823.43	823.43	2905.88	2905.88	Si
SLV FO 3	-63.64	-8.9987	-65.9038	55.75	60.29	-13.61	231.46	231.46	823.43	823.43	2905.88	2905.88	Si
SLV FO 2	-63.65	36.3752	-72.9495	42.72	53.22	-3.49	231.46	231.46	823.43	823.43	2905.88	2905.88	Si
SLV FO 1	-63.66	37.296	-79.3808	37.64	51.86	-4.51	231.46	231.46	823.43	823.43	2905.88	2905.88	Si
SLV FO 13	-63.24	4.7445	94.1781	30.75	-50.27	16.2	231.43	231.43	823.43	823.43	2905.84	2905.84	Si

5.1.5 Plinto 18

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.5.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.5.2 Caratteristiche geometriche

Suola: dimensione x: 3.7; dimensione y: 3.7; spessore: 0.4
Dado: dimensione x: 1.2; dimensione y: 1.2; spessore: 0.95
Bicchiere: dimensione x: 0.7; dimensione y: 0.7; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.5; dimensione y: 0.5
Copriferri: suola: 0.075; dado: 0.04

5.1.5.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 14 diam. 20 mm Armatura superiore in direzione X 7 diam. 8 mm
Armatura inferiore in direzione Y 14 diam. 20 mm Armatura superiore in direzione Y 7 diam. 8 mm

5.1.5.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 1.77

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y+	filo ris.	SLU 18	315.2495	557.0611	Si
norm.Y+	filo ris.	SLU 20	312.9253	557.0611	Si
norm.Y-	filo ris.	SLU 18	310.1844	557.0611	Si
norm.Y-	filo ris.	SLU 20	307.4352	557.0611	Si
norm.Y+	filo ris.	SLU 19	305.4182	557.0611	Si

5.1.5.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 12.79

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.X+	filo ris.	SLE RA 3	223.5158	no	-2245	6990	Si
norm.Y+	filo ris.	SLE RA 3	220.9448	no	-2228	5738	Si
norm.X+	filo ris.	SLE RA 5	221.5962	no	-2226	6930	Si
norm.Y+	filo ris.	SLE RA 5	219.3953	no	-2212	5698	Si
norm.Y-	filo ris.	SLE RA 3	217.0901	no	-2189	5638	Si

5.1.5.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	334.665	no	0	Si
norm.Y-	filo ris.	SLE FR 2	202.1651	no	0	Si
norm.Y-	filo ris.	SLE FR 1	200.2124	no	0	Si
norm.Y-	filo pil.	SLE FR 4	334.8306	no	0	Si
norm.Y-	filo pil.	SLE FR 3	334.6848	no	0	Si

5.1.5.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 10.26

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.X+	filo ris.	SLE QP 2	208.8978	no	-2098	0	Si
norm.Y+	filo ris.	SLE QP 2	206.3283	no	-2080	0	Si
norm.X+	filo ris.	SLE QP 1	205.6642	no	-2066	0	Si
norm.Y-	filo ris.	SLE QP 2	203.2613	no	-2049	0	Si
norm.Y+	filo ris.	SLE QP 1	202.8731	no	-2045	0	Si

5.1.5.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a flessione 2.62

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y+	filo ris.	SLV FO 3	212.3174	557.0611	Si
norm.Y+	filo ris.	SLV FO 4	212.0894	557.0611	Si
norm.Y+	filo ris.	SLV FO 1	211.1427	557.0611	Si
norm.Y+	filo ris.	SLV FO 2	210.9146	557.0611	Si
norm.Y+	filo ris.	SLV FO 7	209.9219	557.0611	Si

5.1.5.4 Verifiche del bicchiere

5.1.5.4.1 Verifiche delle pareti per tensoflessione del bordo superiore

Sezione B=0.475 H=0.25

Armatura interna 3 diam.16 armatura esterna 3 diam.16

5.1.5.4.2 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 10.24

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLU 18	-1436.57	4.65	1.87	-7.0165	19.6372	18.7	3.439	191.49	35.2209	Si
X	SLU 8	-1334.52	4.81	1.52	-5.4643	20.1298	19.2	3.3088	199.54	34.391	Si
X	SLU 20	-1424.55	4.42	2	-7.6442	18.6567	17.76	3.392	186.92	35.6915	Si
X	SLU 17	-1382.66	4.7	1.33	-5.0776	19.8123	18.87	3.2053	201.36	34.2029	Si
X	SLU 10	-1322.5	4.58	1.65	-6.0919	19.1494	18.27	3.2618	195.13	34.8458	Si

5.1.5.4.3 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 70.92

Sezione di normale	Comb.	N	M	Fessurata	σC	σF	Verifica
Y	SLE RA 3	5.2	2.3506	no	-405	1754	Si
Y	SLE RA 5	5.59	2.3192	no	-396	1751	Si
Y	SLE RA 2	3.93	2.1947	no	-386	1597	Si
Y	SLE RA 4	5.44	2.2211	no	-379	1680	Si
Y	SLE RA 1	3.62	1.9985	no	-351	1456	Si

5.1.5.4.4 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	wd	Verifica
X	SLE FR 1	11.21	1.9985	no	0	Si
X	SLE FR 2	11.44	2.0377	no	0	Si
X	SLE FR 3	11.39	2.1045	no	0	Si
X	SLE FR 4	11.13	2.1098	no	0	Si
Y	SLE FR 1	3.62	1.9985	no	0	Si

5.1.5.4.5 Famiglia di combinazioni Famiglia "Esercizio quasi permanente"

Si stampano le situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 59.99

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Sezione di normale	Comb.	N	M	Fessurata	σC	wd	Verifica
Y	SLE QP 2	4.16	2.0653	no	-359	0	Si
Y	SLE QP 1	3.62	1.9985	no	-351	0	Si
X	SLE QP 2	11.16	2.0653	no	-303	0	Si
X	SLE QP 1	11.21	1.9985	no	-290	0	Si

5.1.5.4.6 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a tensoflessione 2.15

Sezione di normale	Comb.	N pil.	Fx pil.	Fy pil.	Mx pil.	My pil.	N par	M par	Nu par	Mu par	Verifica
X	SLV FO 16	-936.17	-149.78	-28.41	-14.7135	260.6944	102.84	14.9223	221.45	32.1325	Si
X	SLV FO 14	-936.14	-158.4	2.69	30.3082	257.0198	94.01	15.6415	203.97	33.9346	Si
X	SLV FO 15	-936.16	-150.85	-28.17	-15.2526	256.6442	98.9	14.3121	221.8	32.0962	Si
X	SLV FO 13	-936.13	-159.47	2.93	29.7691	252.9696	90.08	15.0313	203.59	33.9732	Si
X	SLV FO 1	-935.25	155.31	30.52	5.9977	-237.2304	80.51	13.0364	207.39	33.5812	Si

5.1.5.4.7 Verifiche delle pareti nel funzionamento tirante-puntone

Non solo le armature di spigolo sono prese in conto in verifica.

Armatura verticale 40 diam.16 mm (16 di spigolo 12 di parete X 12 di parete Y)

Spessore puntoni 0.25

5.1.5.4.8 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 26.26

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLU 18	4.65	1.87	-7.0165	19.6372	39	18.7	23.9	1520.34	14.88	0.001407	39	6.83	8.73	1520.34	5.44	0.001407	14438	379203	Si
SLU 20	4.42	2	-7.6442	18.6567	39	17.76	22.71	1520.34	14.14	0.001407	39	7.41	9.47	1520.34	5.9	0.001407	14240	379203	Si
SLU 8	4.81	1.52	-5.4643	20.1298	39	19.2	24.54	1520.34	15.28	0.001407	39	5.36	6.85	1520.34	4.27	0.001407	13891	379203	Si
SLU 10	4.58	1.65	-6.0919	19.1494	39	18.27	23.35	1520.34	14.54	0.001407	39	5.94	7.6	1520.34	4.73	0.001407	13694	379203	Si
SLU 19	4.21	1.9	-7.4409	17.7513	39	16.91	21.61	1520.34	13.46	0.001407	39	7.18	9.17	1520.34	5.71	0.001407	13623	379203	Si

5.1.5.4.9 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo 5.77

					Direzione X						Direzione Y								
Comb.	Fx pil.	Fy pil.	Mx pil.	My pil.	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	β	F'sd/2	Compr.	Compr. limite	Trazione	Area tirante	σx+σy	σ limite	Verifica
SLV FO 14	-158.4	2.69	30.3082	257.0198	39	94.01	120.17	1520.34	74.84	0.001407	39	22.08	28.22	1520.34	17.58	0.001407	65666	379203	Si
SLV FO 13	-159.47	2.93	29.7691	252.9696	39	90.08	115.14	1520.34	71.71	0.001407	39	21.49	27.46	1520.34	17.11	0.001407	63105	379203	Si
SLV FO 16	-149.78	-28.41	-14.7135	260.6944	39	102.84	131.45	1520.34	81.87	0.001407	39	7.92	10.12	1520.34	6.3	0.001407	62647	379203	Si
SLV FO 15	-150.85	-28.17	-15.2526	256.6442	39	98.9	126.42	1520.34	78.74	0.001407	39	7.32	9.36	1520.34	5.83	0.001407	60085	379203	Si
SLV FO 3	163.93	-0.58	-39.024	-233.5558	39	71.69	91.63	1520.34	57.07	0.001407	39	30.41	38.87	1520.34	24.21	0.001407	57749	379203	Si

5.1.5.4.10 Verifiche della sezione anulare di base

Armature verticali 40 diam.16 mm

5.1.5.4.11 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 110.47

Coefficiente di sicurezza minimo a taglio 169.47

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLU 18	-309.88	-5.236	24.051	110.47	4.65	1.87	249.93	249.93	823.43	823.43	2933.58	2933.58	Si
SLU 20	-307.47	-5.7419	22.8515	111.34	4.42	2	249.75	249.75	823.43	823.43	2933.31	2933.31	Si
SLU 19	-300.45	-5.6402	21.7476	113.94	4.21	1.9	249.22	249.22	823.43	823.43	2932.52	2932.52	Si
SLU 17	-299.09	-3.8187	24.2742	114.46	4.7	1.33	249.12	249.12	823.43	823.43	2932.37	2932.37	Si
SLU 8	-289.47	-4.0177	24.6976	118.26	4.81	1.52	248.4	248.4	823.43	823.43	2931.29	2931.29	Si
SLU 7	-278.68	-2.6004	24.9208	122.84	4.86	0.97	247.59	247.59	823.43	823.43	2930.08	2930.08	Si
SLU 10	-287.06	-4.5235	23.4981	119.25	4.58	1.65	248.22	248.22	823.43	823.43	2931.02	2931.02	Si

5.1.5.4.12 Famiglia "Esercizio rara"

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 96.24

Comb.	N	Mx	My	Fessurata	σC	σF	Verifica
SLE RA 3	-223.18	-4.0322	15.7466	no	-298	-877	Si
SLE RA 5	-221.57	-4.3694	14.9469	no	-295	-877	Si
SLE RA 2	-215.99	-3.0873	15.8954	no	-288	-852	Si
SLE RA 4	-216.89	-4.3016	14.211	no	-287	-866	Si
SLE RA 1	-206.62	-2.9518	14.4237	no	-273	-829	Si

5.1.5.4.13 Famiglia "Esercizio frequente"

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	wd	Verifica
SLE FR 1	-206.62	-2.9518	14.4237	no	0	Si
SLE FR 2	-208.5	-2.9789	14.718	no	0	Si
SLE FR 3	-211.58	-3.3838	14.6542	no	0	Si
SLE FR 4	-211.76	-3.6267	14.3173	no	0	Si

5.1.5.4.14 Famiglia "Esercizio quasi permanente"

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 77.71

Coefficiente di sicurezza minimo per verifica apertura fessure 999

Comb.	N	Mx	My	Fessurata	σC	wd	Verifica
SLE QP 2	-209.7	-3.3568	14.3599	no	-277	0	Si
SLE QP 1	-206.62	-2.9518	14.4237	no	-273	0	Si

5.1.5.4.15 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a pressoflessione 41.03

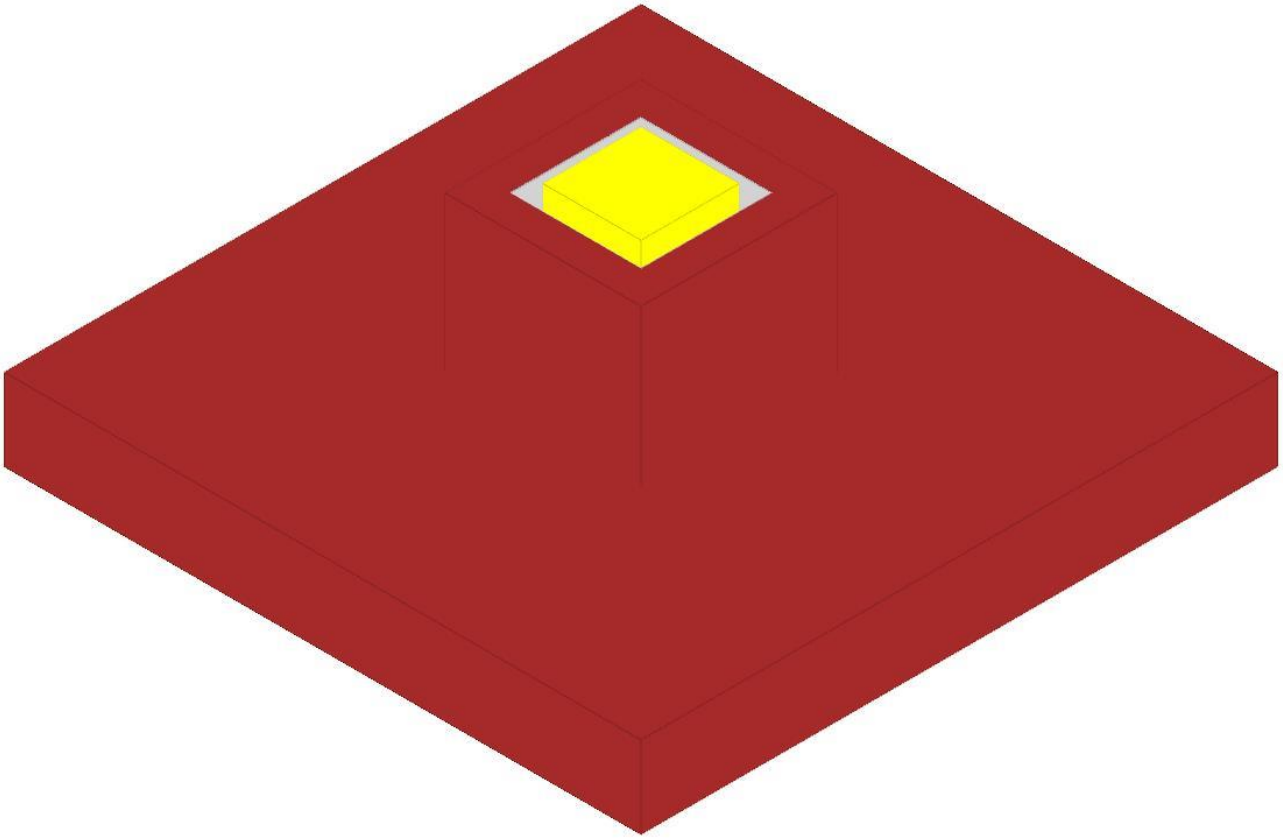
Coefficiente di sicurezza minimo a taglio 4.99

Comb.	N	Mx	My	Coeff.s.	Vx	Vy	Vrdx	Vrdy	Vrsdx	Vrsdy	Vrcdx	Vrcdy	Verifica
SLV FO 12	-209.74	-127.932	63.8982	41.03	-29.86	-54.97	242.42	242.42	823.43	823.43	2922.32	2922.32	Si
SLV FO 11	-209.74	-128.0652	61.7045	41.51	-30.32	-54.86	242.42	242.42	823.43	823.43	2922.32	2922.32	Si
SLV FO 5	-209.67	121.2185	-35.1785	52.77	35.39	57.08	242.41	242.41	823.43	823.43	2922.31	2922.31	Si
SLV FO 16	-209.8	-41.7046	118.4051	52.96	-149.78	-28.41	242.42	242.42	823.43	823.43	2922.33	2922.33	Si
SLV FO 6	-209.67	121.3517	-32.9848	53.29	35.85	56.97	242.41	242.41	823.43	823.43	2922.31	2922.31	Si
SLV FO 4	-209.62	-39.2667	-72.7541	89.16	165	-0.82	242.41	242.41	823.43	823.43	2922.31	2922.31	Si
SLV FO 3	-209.62	-39.5746	-77.8248	84.99	163.93	-0.58	242.41	242.41	823.43	823.43	2922.31	2922.31	Si
SLV FO 13	-209.79	32.5532	101.4738	69.64	-159.47	2.93	242.42	242.42	823.43	823.43	2922.32	2922.32	Si
SLV FO 14	-209.79	32.8611	106.5446	64.99	-158.4	2.69	242.42	242.42	823.43	823.43	2922.32	2922.32	Si
SLV FO 2	-209.61	35.299	-84.6146	81.93	156.38	30.28	242.41	242.41	823.43	823.43	2922.3	2922.3	Si

5.1.6 Plinto 33

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.6.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.6.2 Caratteristiche geometriche

Suola: dimensione x: 3.9; dimensione y: 3.9; spessore: 0.5
Dado: dimensione x: 1.2; dimensione y: 1.2; spessore: 0.95
Bicchiere: dimensione x: 0.8; dimensione y: 0.8; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.6; dimensione y: 0.6
Copriferri: suola: 0.075; dado: 0.04

5.1.6.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 13 diam. 20 mm Armatura superiore in direzione X 7 diam. 8 mm
Armatura inferiore in direzione Y 13 diam. 20 mm Armatura superiore in direzione Y 7 diam. 8 mm

5.1.6.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 2.16

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y+	filo ris.	SLU 17	320.0964	691.9541	Si
norm.Y+	filo ris.	SLU 18	320.078	691.9541	Si
norm.Y-	filo ris.	SLU 18	319.9564	691.9541	Si
norm.Y-	filo ris.	SLU 17	319.9379	691.9541	Si
norm.X-	filo ris.	SLU 18	320.0172	724.7099	Si

5.1.6.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 20.5

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.Y+	filo ris.	SLE RA 2	229.148	no	-1401	4429	Si
norm.Y+	filo ris.	SLE RA 3	229.1357	no	-1400	4429	Si
norm.Y-	filo ris.	SLE RA 3	229.0562	no	-1400	4427	Si
norm.Y-	filo ris.	SLE RA 2	229.0439	no	-1400	4427	Si
norm.X-	filo ris.	SLE RA 3	229.096	no	-1397	5021	Si

5.1.6.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	270.4618	no	0	Si
norm.Y-	filo ris.	SLE FR 2	191.3147	no	0	Si
norm.Y-	filo ris.	SLE FR 1	181.8824	no	0	Si
norm.Y-	filo pil.	SLE FR 4	270.4335	no	0	Si
norm.Y-	filo pil.	SLE FR 3	284.5193	no	0	Si

5.1.6.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 19.37

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.Y+	filo ris.	SLE QP 1	181.9406	no	-1112	0	Si
norm.Y+	filo ris.	SLE QP 2	181.9353	no	-1112	0	Si
norm.Y-	filo ris.	SLE QP 2	181.8877	no	-1112	0	Si
norm.Y-	filo ris.	SLE QP 1	181.8824	no	-1112	0	Si
norm.X+	filo ris.	SLE QP 1	181.9115	no	-1109	0	Si

5.1.6.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

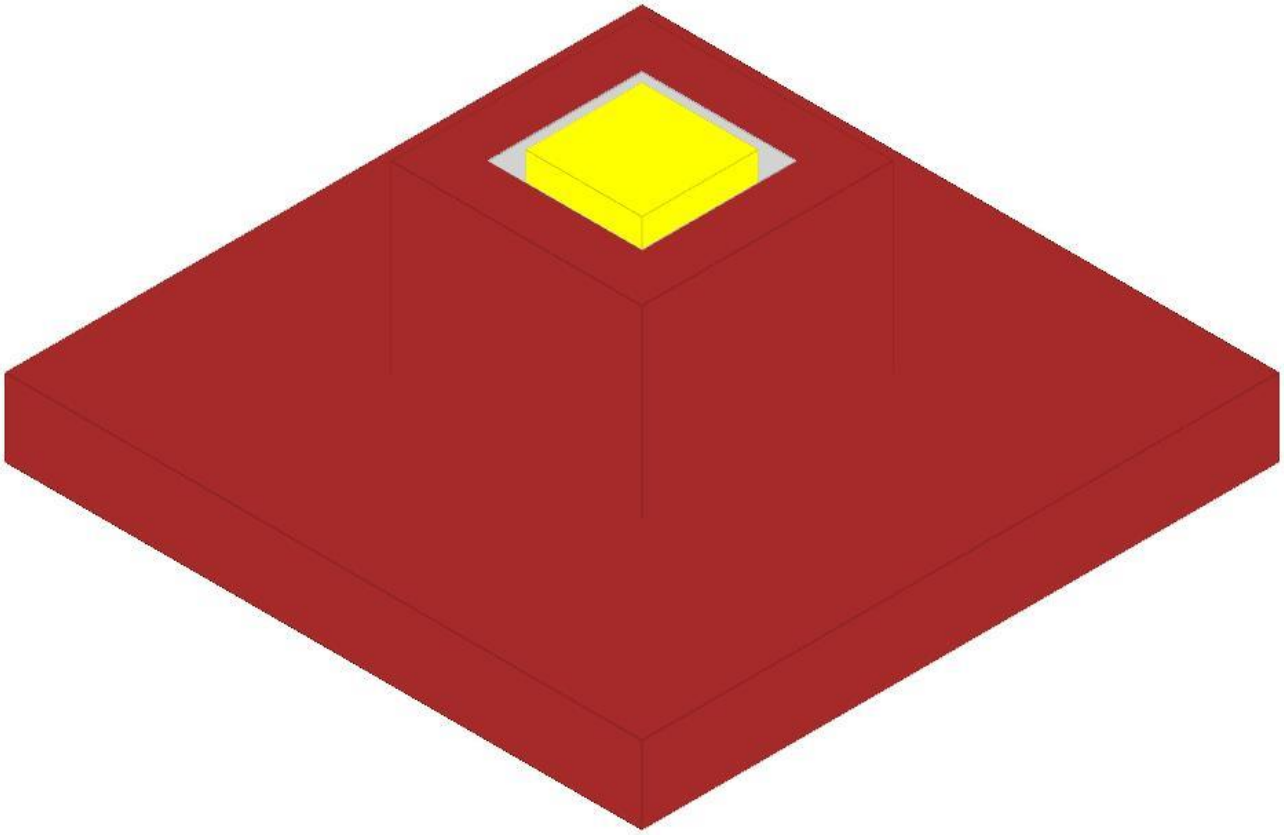
Coefficiente di sicurezza minimo a flessione 1.34

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X-	filo ris.	SLV FO 4	540.9327	724.7099	Si
norm.X+	filo ris.	SLV FO 13	540.9268	724.7099	Si
norm.X-	filo ris.	SLV FO 3	540.929	724.7099	Si
norm.X+	filo ris.	SLV FO 14	540.9231	724.7099	Si
norm.X+	filo ris.	SLV FO 16	540.7399	724.7099	Si

5.1.7 Plinto 34

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.7.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.7.2 Caratteristiche geometriche

Suola: dimensione x: 3.3; dimensione y: 3.3; spessore: 0.4
Dado: dimensione x: 1.3; dimensione y: 1.3; spessore: 0.95
Bicchiere: dimensione x: 0.8; dimensione y: 0.8; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.6; dimensione y: 0.6
Copriferri: suola: 0.075; dado: 0.04

5.1.7.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 17 diam. 14 mm Armatura superiore in direzione X 9 diam. 8 mm
Armatura inferiore in direzione Y 17 diam. 14 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.7.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 2.84

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y+	filo ris.	SLU 17	123.9922	352.0015	Si
norm.Y+	filo ris.	SLU 18	123.9808	352.0015	Si
norm.Y-	filo ris.	SLU 18	123.9035	352.0015	Si
norm.Y-	filo ris.	SLU 17	123.8921	352.0015	Si
norm.X-	filo ris.	SLU 18	123.9422	364.4279	Si

5.1.7.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 28.38

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.Y+	filo ris.	SLE RA 2	89.5826	no	-1012	2877	Si
norm.Y+	filo ris.	SLE RA 3	89.575	no	-1012	2877	Si
norm.Y-	filo ris.	SLE RA 3	89.5243	no	-1011	2875	Si
norm.Y-	filo ris.	SLE RA 2	89.5167	no	-1011	2875	Si
norm.X-	filo ris.	SLE RA 3	89.5496	no	-1009	3254	Si

5.1.7.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	131.5391	no	0	Si
norm.Y-	filo ris.	SLE FR 2	76.4587	no	0	Si
norm.Y-	filo ris.	SLE FR 1	73.1942	no	0	Si
norm.Y-	filo pil.	SLE FR 4	131.5173	no	0	Si
norm.Y-	filo pil.	SLE FR 3	137.4637	no	0	Si

5.1.7.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 26.04

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.Y+	filo ris.	SLE QP 1	73.2313	no	-827	0	Si
norm.Y+	filo ris.	SLE QP 2	73.228	no	-827	0	Si
norm.Y-	filo ris.	SLE QP 2	73.1974	no	-827	0	Si
norm.Y-	filo ris.	SLE QP 1	73.1942	no	-827	0	Si
norm.X+	filo ris.	SLE QP 1	73.2127	no	-825	0	Si

5.1.7.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

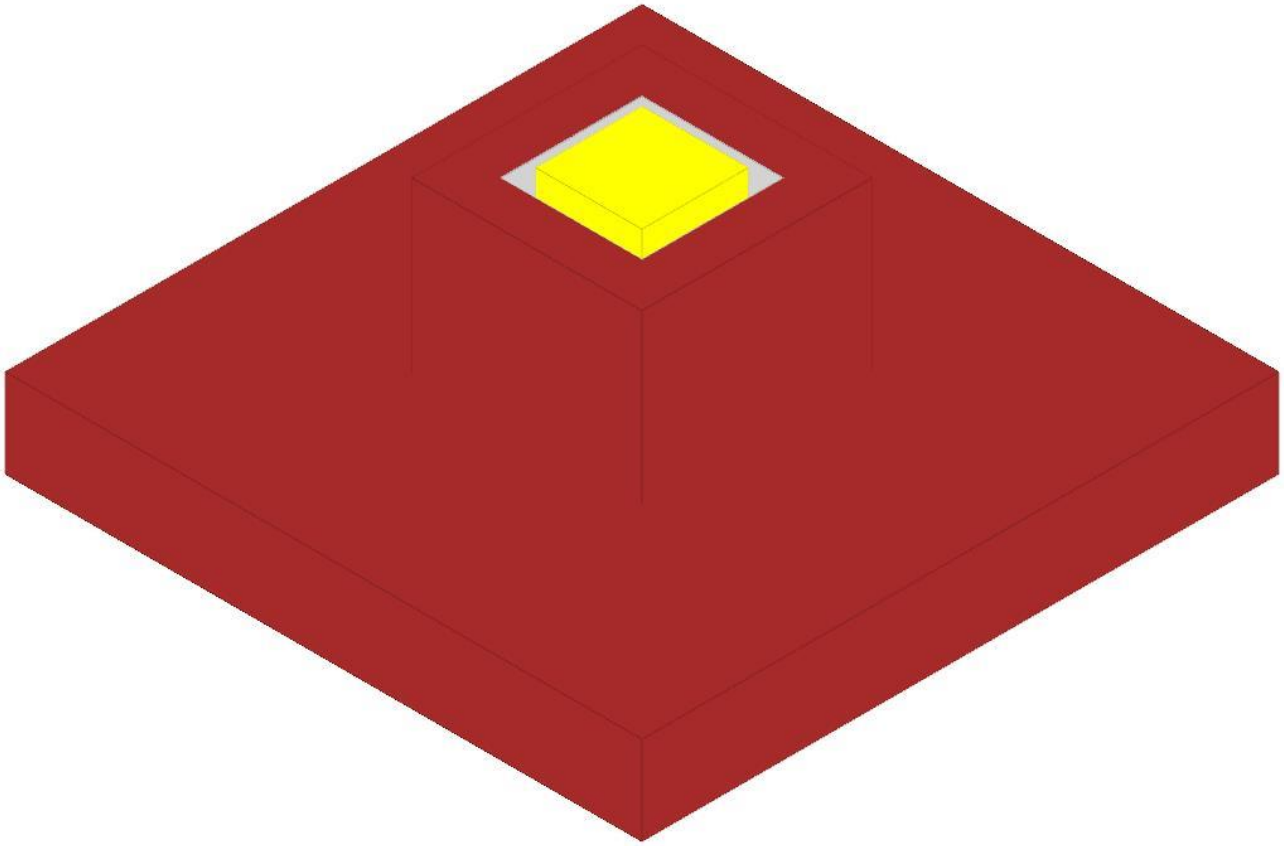
Coefficiente di sicurezza minimo a flessione 0.88

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X-	filo ris.	SLV FO 3	414.5446	364.4279	No
norm.X+	filo ris.	SLV FO 13	414.543	364.4279	No
norm.X+	filo ris.	SLV FO 14	414.543	364.4279	No
norm.X-	filo ris.	SLV FO 1	414.5439	364.4279	No
norm.X-	filo ris.	SLV FO 4	414.5446	364.4279	No

5.1.8 Plinto 39

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.8.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.8.2 Caratteristiche geometriche

Suola: dimensione x: 3.6; dimensione y: 3.6; spessore: 0.5
Dado: dimensione x: 1.3; dimensione y: 1.3; spessore: 0.95
Bicchiere: dimensione x: 0.8; dimensione y: 0.8; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.6; dimensione y: 0.6
Copriferri: suola: 0.075; dado: 0.04

5.1.8.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 13 diam. 20 mm Armatura superiore in direzione X 9 diam. 8 mm
Armatura inferiore in direzione Y 13 diam. 20 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.8.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 3.67

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y-	filo ris.	SLU 18	188.9035	692.8645	Si
norm.Y-	filo ris.	SLU 17	188.9036	692.8645	Si
norm.Y+	filo ris.	SLU 18	188.9034	692.8645	Si
norm.Y+	filo ris.	SLU 17	188.9034	692.8645	Si
norm.Y-	filo ris.	SLU 13	184.7014	692.8645	Si

5.1.8.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 31.38

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.Y-	filo ris.	SLE RA 3	138.384	no	-915	2892	Si
norm.Y-	filo ris.	SLE RA 2	138.384	no	-915	2892	Si
norm.Y+	filo ris.	SLE RA 3	138.3839	no	-915	2892	Si
norm.Y+	filo ris.	SLE RA 2	138.3839	no	-915	2892	Si
norm.X-	filo ris.	SLE RA 3	138.384	no	-913	3278	Si

5.1.8.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	167.1613	no	0	Si
norm.Y-	filo ris.	SLE FR 2	107.169	no	0	Si
norm.Y-	filo ris.	SLE FR 1	99.3652	no	0	Si
norm.Y-	filo pil.	SLE FR 4	167.1613	no	0	Si
norm.Y-	filo pil.	SLE FR 3	180.438	no	0	Si

5.1.8.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 32.77

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.Y+	filo ris.	SLE QP 1	99.3652	no	-657	0	Si
norm.Y+	filo ris.	SLE QP 2	99.3652	no	-657	0	Si
norm.Y-	filo ris.	SLE QP 1	99.3652	no	-657	0	Si
norm.Y-	filo ris.	SLE QP 2	99.3652	no	-657	0	Si
norm.X+	filo ris.	SLE QP 1	99.3652	no	-655	0	Si

5.1.8.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

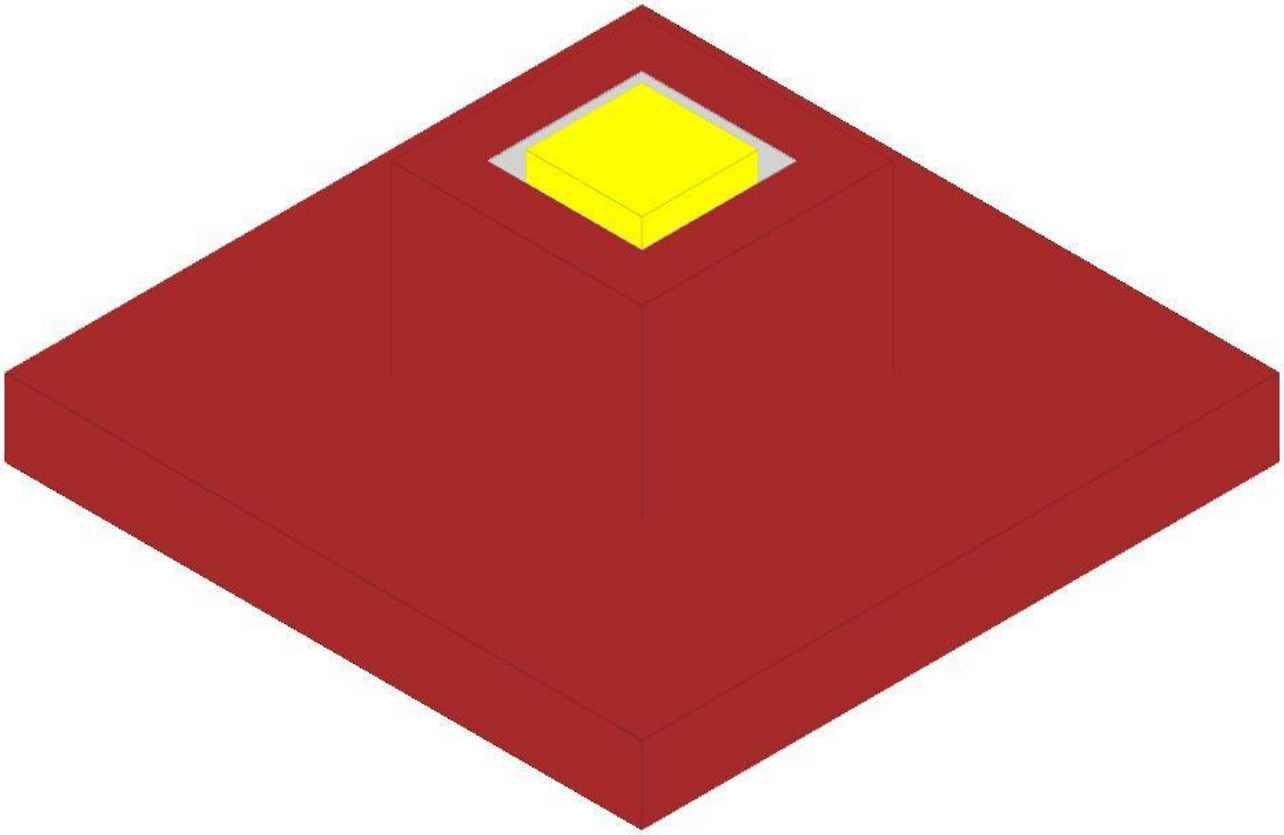
Coefficiente di sicurezza minimo a flessione 1.41

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X-	filo ris.	SLV FO 1	512.9703	725.0326	Si
norm.X+	filo ris.	SLV FO 14	512.9733	725.0326	Si
norm.X+	filo ris.	SLV FO 15	512.9703	725.0326	Si
norm.X+	filo ris.	SLV FO 16	512.9703	725.0326	Si
norm.X-	filo ris.	SLV FO 2	512.9703	725.0326	Si

5.1.9 Plinto 40

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.9.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.9.2 Caratteristiche geometriche

Suola: dimensione x: 3.3; dimensione y: 3.3; spessore: 0.4
Dado: dimensione x: 1.3; dimensione y: 1.3; spessore: 0.95
Bicchiere: dimensione x: 0.8; dimensione y: 0.8; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.6; dimensione y: 0.6
Copriferri: suola: 0.075; dado: 0.04

5.1.9.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 17 diam. 14 mm Armatura superiore in direzione X 9 diam. 8 mm
Armatura inferiore in direzione Y 17 diam. 14 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.9.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 2.91

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y-	filo ris.	SLU 18	120.9679	352.0015	Si
norm.Y-	filo ris.	SLU 17	120.9678	352.0015	Si
norm.Y+	filo ris.	SLU 18	120.9682	352.0015	Si
norm.Y+	filo ris.	SLU 17	120.9683	352.0015	Si
norm.X-	filo ris.	SLU 18	120.968	364.4279	Si

5.1.9.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 29.13

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.Y+	filo ris.	SLE RA 2	87.2805	no	-986	2803	Si
norm.Y+	filo ris.	SLE RA 3	87.2804	no	-986	2803	Si
norm.Y-	filo ris.	SLE RA 3	87.2802	no	-986	2803	Si
norm.Y-	filo ris.	SLE RA 2	87.2802	no	-986	2803	Si
norm.X-	filo ris.	SLE RA 3	87.2803	no	-984	3172	Si

5.1.9.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	127.5929	no	0	Si
norm.Y-	filo ris.	SLE FR 2	74.2939	no	0	Si
norm.Y-	filo ris.	SLE FR 1	71.0474	no	0	Si
norm.Y-	filo pil.	SLE FR 4	127.5928	no	0	Si
norm.Y-	filo pil.	SLE FR 3	133.5097	no	0	Si

5.1.9.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 26.84

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.Y+	filo ris.	SLE QP 1	71.0476	no	-802	0	Si
norm.Y+	filo ris.	SLE QP 2	71.0475	no	-802	0	Si
norm.Y-	filo ris.	SLE QP 1	71.0474	no	-802	0	Si
norm.Y-	filo ris.	SLE QP 2	71.0474	no	-802	0	Si
norm.X+	filo ris.	SLE QP 1	71.0475	no	-801	0	Si

5.1.9.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

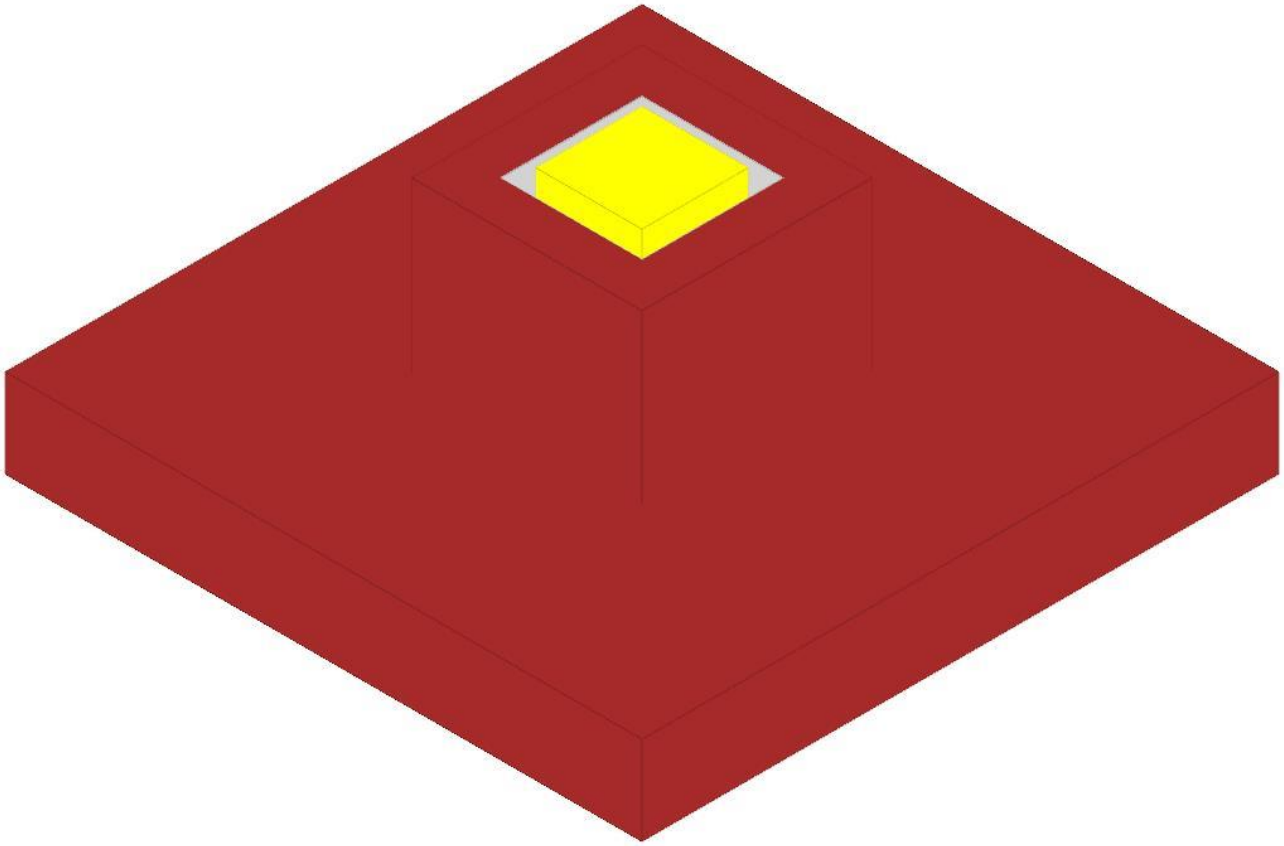
Coefficiente di sicurezza minimo a flessione 0.86

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X-	filo ris.	SLV FO 3	423.1973	364.4279	No
norm.X+	filo ris.	SLV FO 14	423.1966	364.4279	No
norm.X+	filo ris.	SLV FO 16	423.1971	364.4279	No
norm.X-	filo ris.	SLV FO 2	423.1963	364.4279	No
norm.X+	filo ris.	SLV FO 13	423.1966	364.4279	No

5.1.10 Plinto 48

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.10.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.10.2 Caratteristiche geometriche

Suola: dimensione x: 3.6; dimensione y: 3.6; spessore: 0.5
Dado: dimensione x: 1.3; dimensione y: 1.3; spessore: 0.95
Bicchiere: dimensione x: 0.8; dimensione y: 0.8; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.6; dimensione y: 0.6
Copriferri: suola: 0.075; dado: 0.04

5.1.10.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 13 diam. 20 mm Armatura superiore in direzione X 9 diam. 8 mm
Armatura inferiore in direzione Y 13 diam. 20 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.10.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 3.71

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y-	filo ris.	SLU 18	186.7123	692.8645	Si
norm.Y-	filo ris.	SLU 17	186.7123	692.8645	Si
norm.Y+	filo ris.	SLU 18	186.7122	692.8645	Si
norm.Y+	filo ris.	SLU 17	186.7122	692.8645	Si
norm.Y-	filo ris.	SLU 13	182.5361	692.8645	Si

5.1.10.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 31.75

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.Y-	filo ris.	SLE RA 3	136.7412	no	-904	2858	Si
norm.Y-	filo ris.	SLE RA 2	136.7412	no	-904	2858	Si
norm.Y+	filo ris.	SLE RA 3	136.7412	no	-904	2858	Si
norm.Y+	filo ris.	SLE RA 2	136.7412	no	-904	2858	Si
norm.X-	filo ris.	SLE RA 3	136.7412	no	-902	3239	Si

5.1.10.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	164.7762	no	0	Si
norm.Y-	filo ris.	SLE FR 2	105.7189	no	0	Si
norm.Y-	filo ris.	SLE FR 1	97.9633	no	0	Si
norm.Y-	filo pil.	SLE FR 4	164.7762	no	0	Si
norm.Y-	filo pil.	SLE FR 3	177.9709	no	0	Si

5.1.10.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 33.24

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.Y+	filo ris.	SLE QP 1	97.9633	no	-648	0	Si
norm.Y+	filo ris.	SLE QP 2	97.9633	no	-648	0	Si
norm.Y-	filo ris.	SLE QP 1	97.9633	no	-648	0	Si
norm.Y-	filo ris.	SLE QP 2	97.9633	no	-648	0	Si
norm.X+	filo ris.	SLE QP 1	97.9633	no	-646	0	Si

5.1.10.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

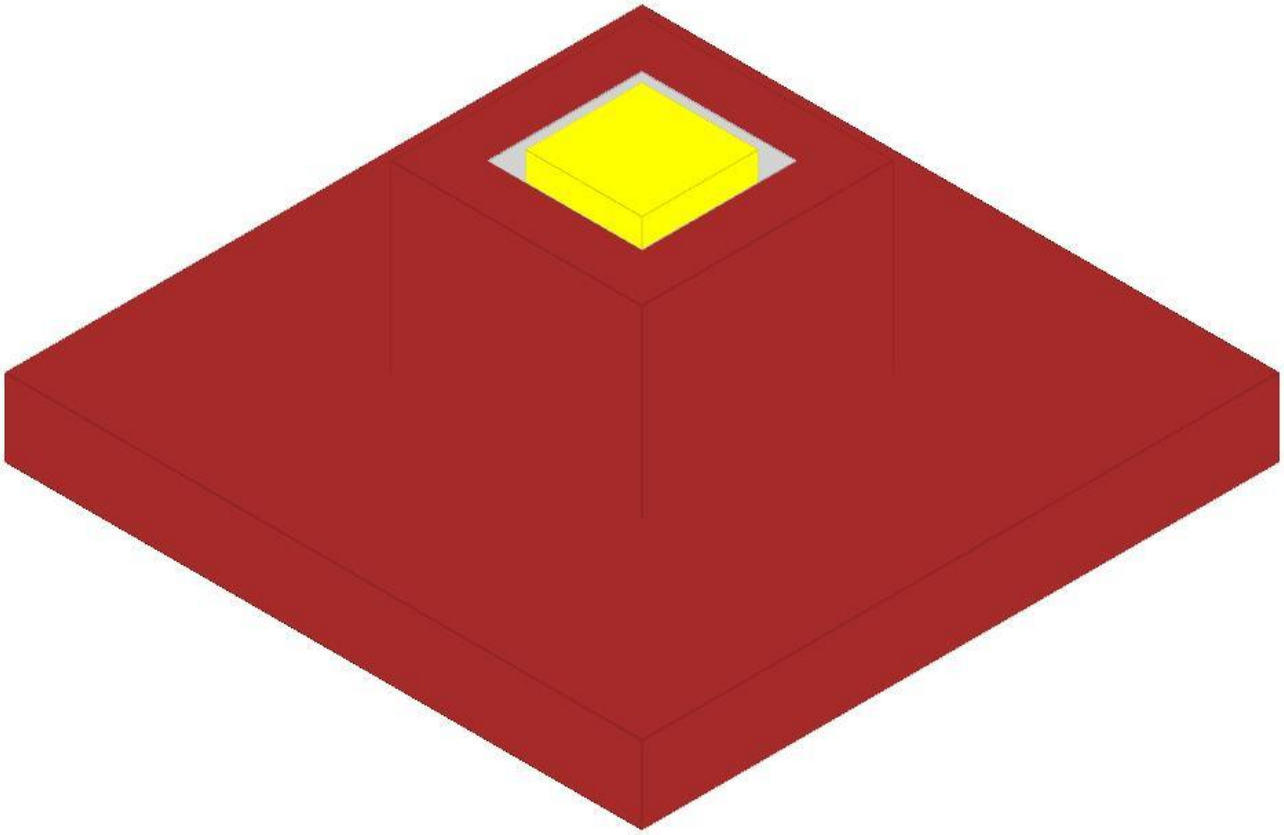
Coefficiente di sicurezza minimo a flessione 1.4

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X-	filo ris.	SLV FO 1	517.4024	725.0326	Si
norm.X+	filo ris.	SLV FO 14	517.404	725.0326	Si
norm.X+	filo ris.	SLV FO 15	517.4024	725.0326	Si
norm.X+	filo ris.	SLV FO 16	517.4024	725.0326	Si
norm.X-	filo ris.	SLV FO 2	517.4024	725.0326	Si

5.1.11 Plinto 49

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.11.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.11.2 Caratteristiche geometriche

Suola: dimensione x: 3.3; dimensione y: 3.3; spessore: 0.4
Dado: dimensione x: 1.3; dimensione y: 1.3; spessore: 0.95
Bicchiere: dimensione x: 0.8; dimensione y: 0.8; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.6; dimensione y: 0.6
Copriferri: suola: 0.075; dado: 0.04

5.1.11.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 17 diam. 14 mm Armatura superiore in direzione X 9 diam. 8 mm
Armatura inferiore in direzione Y 17 diam. 14 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.11.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 2.93

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y-	filo ris.	SLU 18	120.0573	352.0015	Si
norm.Y-	filo ris.	SLU 17	120.0573	352.0015	Si
norm.Y+	filo ris.	SLU 18	120.0573	352.0015	Si
norm.Y+	filo ris.	SLU 17	120.0573	352.0015	Si
norm.X-	filo ris.	SLU 18	120.0573	364.4279	Si

5.1.11.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 29.36

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.Y-	filo ris.	SLE RA 3	86.5975	no	-978	2781	Si
norm.Y-	filo ris.	SLE RA 2	86.5975	no	-978	2781	Si
norm.Y+	filo ris.	SLE RA 3	86.5976	no	-978	2781	Si
norm.Y+	filo ris.	SLE RA 2	86.5976	no	-978	2781	Si
norm.X-	filo ris.	SLE RA 3	86.5975	no	-976	3147	Si

5.1.11.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	126.5309	no	0	Si
norm.Y-	filo ris.	SLE FR 2	73.6913	no	0	Si
norm.Y-	filo ris.	SLE FR 1	70.4647	no	0	Si
norm.Y-	filo pil.	SLE FR 4	126.5309	no	0	Si
norm.Y-	filo pil.	SLE FR 3	132.4113	no	0	Si

5.1.11.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 27.06

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.Y+	filo ris.	SLE QP 1	70.4647	no	-796	0	Si
norm.Y+	filo ris.	SLE QP 2	70.4647	no	-796	0	Si
norm.Y-	filo ris.	SLE QP 1	70.4647	no	-796	0	Si
norm.Y-	filo ris.	SLE QP 2	70.4647	no	-796	0	Si
norm.X+	filo ris.	SLE QP 1	70.4647	no	-794	0	Si

5.1.11.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

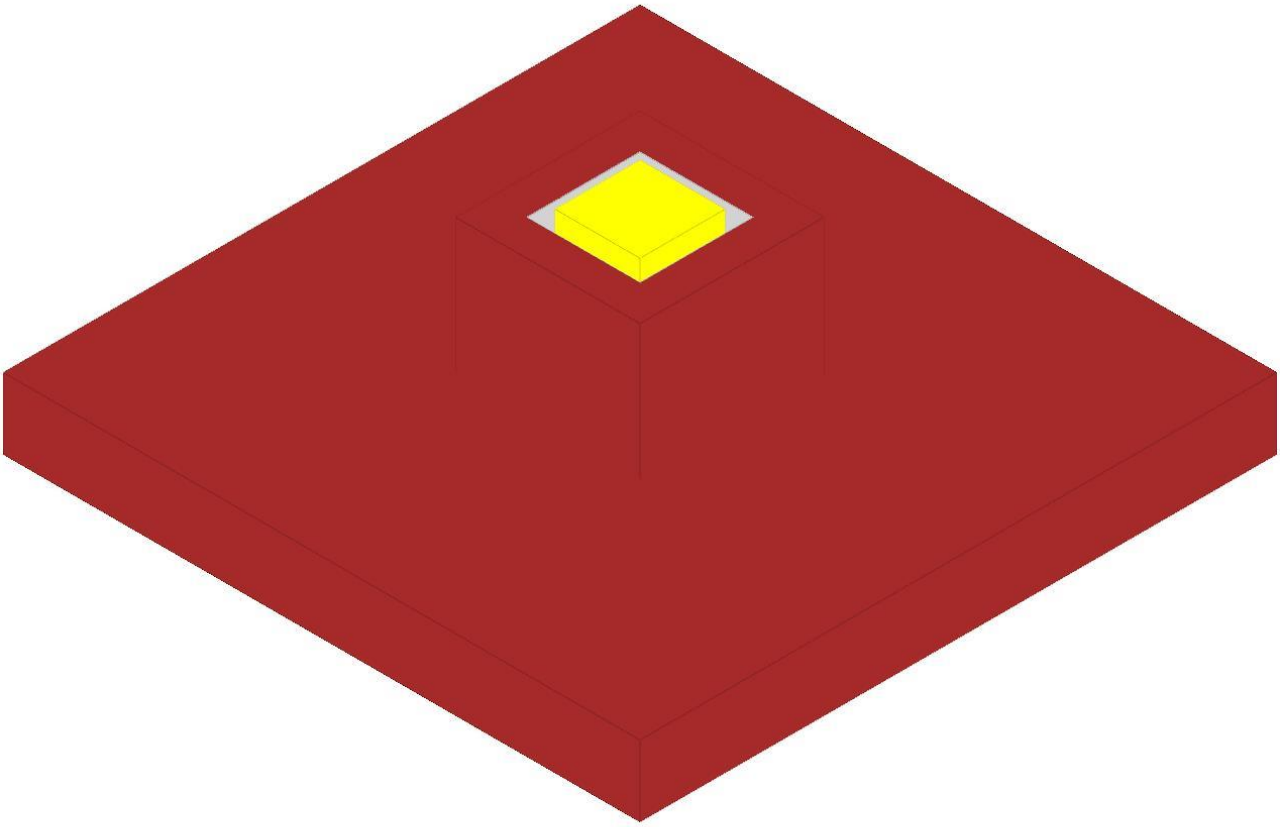
Coefficiente di sicurezza minimo a flessione 0.86

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X-	filo ris.	SLV FO 1	425.1774	364.4279	No
norm.X+	filo ris.	SLV FO 14	425.1772	364.4279	No
norm.X+	filo ris.	SLV FO 13	425.1772	364.4279	No
norm.X+	filo ris.	SLV FO 16	425.1771	364.4279	No
norm.X-	filo ris.	SLV FO 2	425.1774	364.4279	No

5.1.12 Plinto 54

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.12.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.12.2 Caratteristiche geometriche

Suola: dimensione x: 4.5; dimensione y: 4.5; spessore: 0.5
Dado: dimensione x: 1.3; dimensione y: 1.3; spessore: 0.95
Bicchiere: dimensione x: 0.8; dimensione y: 0.8; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.6; dimensione y: 0.6
Copriferri: suola: 0.075; dado: 0.04

5.1.12.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 20 diam. 20 mm Armatura superiore in direzione X 11 diam. 8 mm
Armatura inferiore in direzione Y 20 diam. 20 mm Armatura superiore in direzione Y 11 diam. 8 mm

5.1.12.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 2.12

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y-	filo ris.	SLU 18	499.0909	1058.0372	Si
norm.Y-	filo ris.	SLU 17	499.0909	1058.0372	Si
norm.Y+	filo ris.	SLU 18	499.0909	1058.0372	Si
norm.Y+	filo ris.	SLU 17	499.0909	1058.0372	Si
norm.X-	filo ris.	SLU 18	499.0909	1108.5546	Si

5.1.12.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 15.44

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.Y-	filo ris.	SLE RA 3	351.9817	no	-1860	5851	Si
norm.Y-	filo ris.	SLE RA 2	351.9817	no	-1860	5851	Si
norm.Y+	filo ris.	SLE RA 3	351.9817	no	-1860	5851	Si
norm.Y+	filo ris.	SLE RA 2	351.9817	no	-1860	5851	Si
norm.X-	filo ris.	SLE RA 3	351.9817	no	-1854	6627	Si

5.1.12.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	430.8585	no	0	Si
norm.Y-	filo ris.	SLE FR 2	303.4723	no	0	Si
norm.Y-	filo ris.	SLE FR 1	291.3449	no	0	Si
norm.Y-	filo pil.	SLE FR 4	430.8585	no	0	Si
norm.Y-	filo pil.	SLE FR 3	448.8719	no	0	Si

5.1.12.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 13.99

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.Y+	filo ris.	SLE QP 1	291.3449	no	-1540	0	Si
norm.Y+	filo ris.	SLE QP 2	291.3449	no	-1540	0	Si
norm.Y-	filo ris.	SLE QP 1	291.3449	no	-1540	0	Si
norm.Y-	filo ris.	SLE QP 2	291.3449	no	-1540	0	Si
norm.X+	filo ris.	SLE QP 1	291.3449	no	-1534	0	Si

5.1.12.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

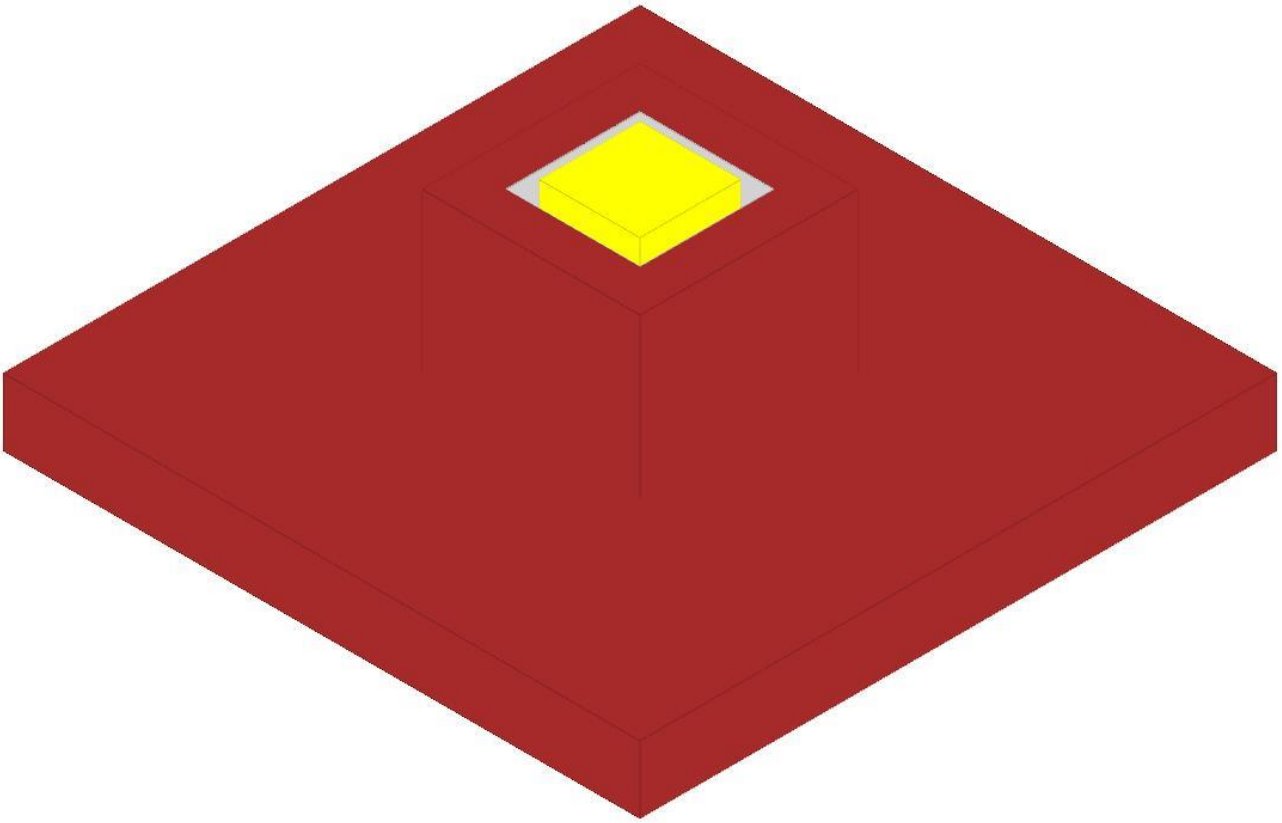
Coefficiente di sicurezza minimo a flessione 1.46

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y+	filo ris.	SLV FO 8	724.4601	1058.0372	Si
norm.Y+	filo ris.	SLV FO 7	724.4601	1058.0372	Si
norm.Y-	filo ris.	SLV FO 10	724.4601	1058.0372	Si
norm.Y-	filo ris.	SLV FO 9	724.4601	1058.0372	Si
norm.Y+	filo ris.	SLV FO 12	724.1562	1058.0372	Si

5.1.13 Plinto 55

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.13.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.13.2 Caratteristiche geometriche

Suola: dimensione x: 3.8; dimensione y: 3.8; spessore: 0.4
Dado: dimensione x: 1.3; dimensione y: 1.3; spessore: 0.95
Bicchiere: dimensione x: 0.8; dimensione y: 0.8; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.6; dimensione y: 0.6
Copriferri: suola: 0.075; dado: 0.04

5.1.13.3 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado
Non sono state richieste le verifiche a taglio della suola.
Armatura inferiore in direzione X 14 diam. 20 mm Armatura superiore in direzione X 11 diam. 8 mm
Armatura inferiore in direzione Y 14 diam. 20 mm Armatura superiore in direzione Y 11 diam. 8 mm

5.1.13.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo a flessione 2.36

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y-	filo ris.	SLU 18	238.7917	563.5161	Si
norm.Y-	filo ris.	SLU 17	238.7917	563.5161	Si
norm.Y+	filo ris.	SLU 18	238.7917	563.5161	Si
norm.Y+	filo ris.	SLU 17	238.7917	563.5161	Si
norm.X-	filo ris.	SLU 18	238.7917	596.429	Si

5.1.13.3.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 17.41

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.Y-	filo ris.	SLE RA 3	168.1892	no	-1649	4257	Si
norm.Y-	filo ris.	SLE RA 2	168.1892	no	-1649	4257	Si
norm.Y+	filo ris.	SLE RA 3	168.1892	no	-1649	4257	Si
norm.Y+	filo ris.	SLE RA 2	168.1892	no	-1649	4257	Si
norm.X-	filo ris.	SLE RA 3	168.1892	no	-1643	5125	Si

5.1.13.3.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	237.4548	no	0	Si
norm.Y-	filo ris.	SLE FR 2	150.5059	no	0	Si
norm.Y-	filo ris.	SLE FR 1	146.0851	no	0	Si
norm.Y-	filo pil.	SLE FR 4	237.4548	no	0	Si
norm.Y-	filo pil.	SLE FR 3	244.6978	no	0	Si

5.1.13.3.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 15.03

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.Y+	filo ris.	SLE QP 1	146.0851	no	-1433	0	Si
norm.Y+	filo ris.	SLE QP 2	146.0851	no	-1433	0	Si
norm.Y-	filo ris.	SLE QP 1	146.0851	no	-1433	0	Si
norm.Y-	filo ris.	SLE QP 2	146.0851	no	-1433	0	Si
norm.X+	filo ris.	SLE QP 1	146.0851	no	-1427	0	Si

5.1.13.3.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

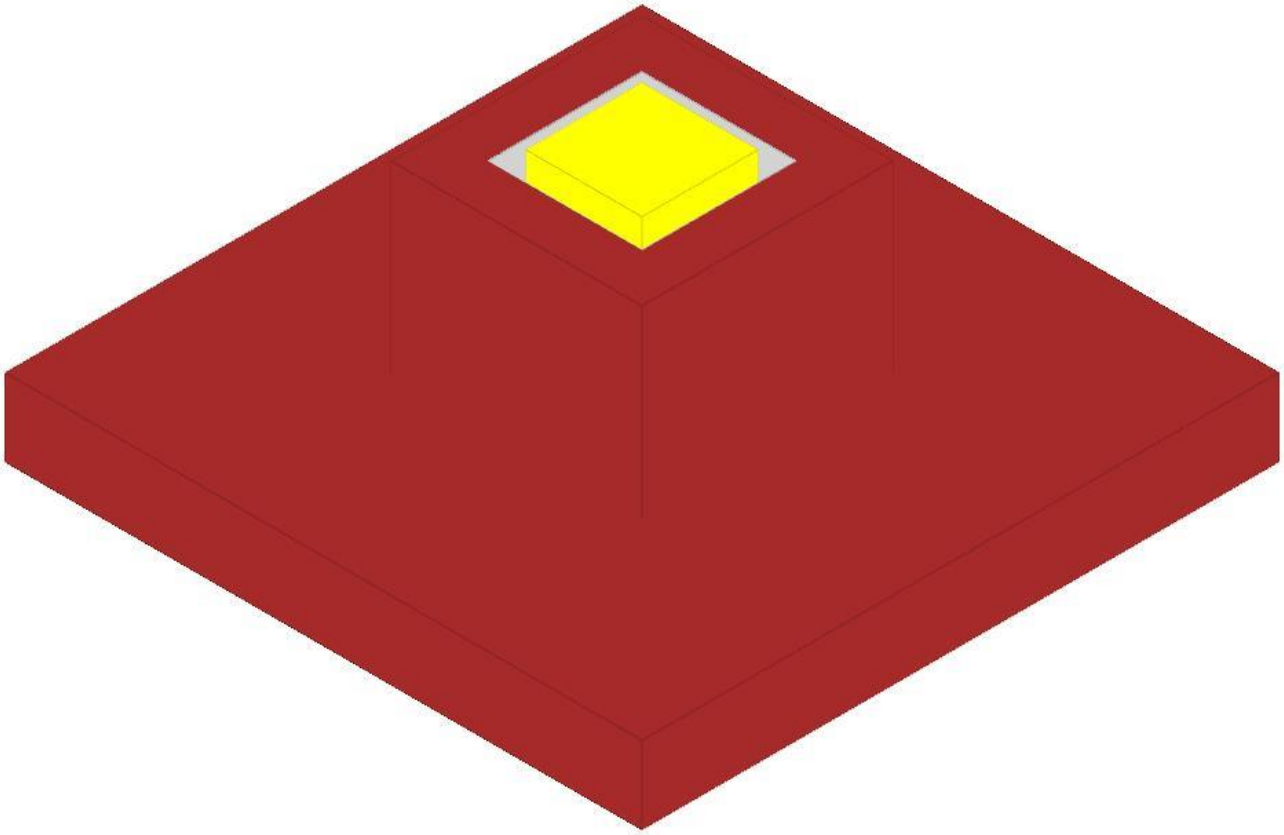
Coefficiente di sicurezza minimo a flessione 0.91

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y-	filo ris.	SLV FO 10	619.5095	563.5161	No
norm.Y-	filo ris.	SLV FO 9	619.5095	563.5161	No
norm.Y+	filo ris.	SLV FO 8	619.5128	563.5161	No
norm.Y+	filo ris.	SLV FO 7	619.5128	563.5161	No
norm.Y+	filo ris.	SLV FO 12	619.0018	563.5161	No

5.1.14 Plinto 61

Verifiche condotte secondo D.M. 17 gennaio 2018

Geometria



5.1.14.1 Caratteristiche dei materiali

Calcestruzzo: C57/69 LC2; Resistenza cubica media Rcm: 69200; Fattore di confidenza: 1.2
Acciaio per armatura: Armature LC2; Fym: 436083.3; Fattore di confidenza: 1.2

5.1.14.2 Caratteristiche geometriche

Suola: dimensione x: 3.3; dimensione y: 3.3; spessore: 0.4
Dado: dimensione x: 1.3; dimensione y: 1.3; spessore: 0.95
Bicchiere: dimensione x: 0.8; dimensione y: 0.8; profondità: 0.95
Pilastro rettangolare: dimensione x: 0.6; dimensione y: 0.6
Copriferri: suola: 0.075; dado: 0.04

5.1.14.3 Pressioni raggiunte sul terreno

5.1.14.3.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo 4.72

Comb.	σt max	σt min	σt verifica	Verifica
SLU 18	-68	-68	-322	Si
SLU 17	-68	-68	-322	Si
SLU 20	-65	-65	-322	Si
SLU 16	-62	-62	-322	Si
SLU 19	-62	-62	-322	Si

5.1.14.3.2 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica
Coefficiente di sicurezza minimo 0.01

Comb.	σt max	σt min	σt verifica	Verifica
SLV FO 2	0	-56865	-322	No

Comb.	σt max	σt min	σt verifica	Verifica
SLV FO 1	0	-56865	-322	No
SLV FO 16	0	-56656	-322	No
SLV FO 14	0	-56716	-322	No
SLV FO 13	0	-56716	-322	No

5.1.14.4 Verifiche della suola

Superficie su cui è valutata la pressione del suolo: rettangolare a filo pilastro e a filo dado

Non sono state richieste le verifiche a taglio della suola.

Armatura inferiore in direzione X 17 diam. 14 mm Armatura superiore in direzione X 9 diam. 8 mm

Armatura inferiore in direzione Y 17 diam. 14 mm Armatura superiore in direzione Y 9 diam. 8 mm

5.1.14.4.1 Famiglia "Limite ultimo"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a flessione 3.87

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.Y-	filo ris.	SLU 18	90.9224	352.0015	Si
norm.Y-	filo ris.	SLU 17	90.9224	352.0015	Si
norm.Y+	filo ris.	SLU 18	90.9224	352.0015	Si
norm.Y+	filo ris.	SLU 17	90.9224	352.0015	Si
norm.X-	filo ris.	SLU 18	90.9224	364.4279	Si

5.1.14.4.2 Famiglia "Esercizio rara"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 28718 σf lim. 348867

Coefficiente di sicurezza minimo per verifica tensioni 38.87

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	σF	Verifica
norm.Y-	filo ris.	SLE RA 3	65.4103	no	-739	2101	Si
norm.Y-	filo ris.	SLE RA 2	65.4103	no	-739	2101	Si
norm.Y+	filo ris.	SLE RA 3	65.4103	no	-739	2101	Si
norm.Y+	filo ris.	SLE RA 2	65.4103	no	-739	2101	Si
norm.X-	filo ris.	SLE RA 3	65.4103	no	-737	2377	Si

5.1.14.4.3 Famiglia "Esercizio frequente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite di apertura fessure: w lim. 0.0004

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	wd	Verifica
norm.X+	filo pil.	SLE FR 1	104.44	no	0	Si
norm.Y-	filo ris.	SLE FR 2	59.7569	no	0	Si
norm.Y-	filo ris.	SLE FR 1	58.3436	no	0	Si
norm.Y-	filo pil.	SLE FR 4	104.44	no	0	Si
norm.Y-	filo pil.	SLE FR 3	107.0159	no	0	Si

5.1.14.4.4 Famiglia "Esercizio quasi permanente"

Si stampano le 5 situazioni più gravose per tipo di verifica

Valori limite: σc lim. 21539 w lim. 0.0003

Coefficiente di sicurezza minimo per verifica tensioni 32.68

Coefficiente di sicurezza minimo per apertura fessure 999

Desc.	Tipo sez.	Comb.	M	Fessurata	σC	wd	Verifica
norm.Y+	filo ris.	SLE QP 1	58.3436	no	-659	0	Si
norm.Y+	filo ris.	SLE QP 2	58.3436	no	-659	0	Si
norm.Y-	filo ris.	SLE QP 1	58.3436	no	-659	0	Si
norm.Y-	filo ris.	SLE QP 2	58.3436	no	-659	0	Si
norm.X+	filo ris.	SLE QP 1	58.3436	no	-658	0	Si

5.1.14.4.5 Famiglia "Limite ultimo sismico"

Si stampano le 5 situazioni più gravose per tipo di verifica

Coefficiente di sicurezza minimo a flessione 0.77

Desc.	Tipo sez.	Comb.	M	Mu	Verifica
norm.X-	filo ris.	SLV FO 4	476.3017	364.4279	No
norm.X+	filo ris.	SLV FO 15	476.302	364.4279	No
norm.X+	filo ris.	SLV FO 16	476.302	364.4279	No
norm.X-	filo ris.	SLV FO 3	476.3017	364.4279	No
norm.X+	filo ris.	SLV FO 14	476.3042	364.4279	No

6 PLINTI ESISTENTI – VERIFICA GEOTECNICA

Le verifiche SLV che si riportano di seguito fanno riferimento ad una sollecitazione sismica pari al 100% di quella prevista dalla normativa.

Come riportato nella relazione principale, la normativa richiede per l'adeguamento il raggiungimento di ζ≥0,80, dove ζ è il rapporto tra l'azione sismica massima sopportabile dalla struttura e l'azione sismica massima che si utilizzerebbe nel progetto di una nuova costruzione.

FONDAZIONI DIRETTE — **PLINTO N.** **P1x**

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	eb=	1,33 m	--->	B'=	0,64 m
L	=	330	cm	lunghezza fondazione	el=	0,23 m	--->	L'=	2,83 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	483,49	kN	108,90	374,59	0,00
Mb	=	643,00	kNm		643,00	0,00
Ml	=	113,00	kNm		113,00	0,00
Tb	=	84,00	kN		84,00	0,00
Tl	=	15,00	kN		15,00	0,00
Ht	=	85,33	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	635,43	kN/mq	q=	266,64	kN/mq	2,38	verificato	R1 = 1,0
		6,35	kg/cmq		2,67	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,21	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,24	OK verificato	

FONDAZIONI DIRETTE — **PLINTO N.** **P1y**

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	eb=	0,84 m	--->	B'=	1,61 m
L	=	330	cm	lunghezza fondazione	el=	0,40 m	--->	L'=	2,50 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	483,49	kN	108,90	374,59	0,00
Mb	=	408,00	kNm		193,00	0,00
Ml	=	193,00	kNm		408,00	0,00
Tb	=	53,00	kN		25,00	0,00
Tl	=	25,00	kN		53,00	0,00
Ht	=	58,60	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	894,23	kN/mq	q=	119,87	kN/mq	7,46	verificato	R1 = 1,0
		8,94	kg/cmq		1,20	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							4,67	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,96	OK verificato	

progetti architettura.ingegneria

FONDAZIONI DIRETTE — PLINTO N. P02x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					Valore SDF	FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	330	eb=	1,34 m	--->	B'=	0,62 m
L	=	330	cm	lunghezza fondazione	330	el=	0,19 m	--->	L'=	2,91 m
H	=	100	cm	altezza suola fondazione						
D	=	165	cm	profondità di posa						

AZIONI				Gkfond	Gk	Qk
N	=	591,25	kN	272,25	319,00	0,00
Mb	=	791,00	kNm		791,00	0,00
Ml	=	114,00	kNm		114,00	0,00
Tb	=	104,00	kN		104,00	0,00
Tl	=	15,00	kN		15,00	0,00
Ht	=	105,08	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	628,26	kN/mq	q=	324,95	kN/mq	1,93	NON verificato	R1 = 1,0
		6,28	kg/cmq		3,25	kg/cmq	0,84		R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,18	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,23	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P02y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					Valore SDF	FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	330	eb=	0,69 m	--->	B'=	1,91 m
L	=	330	cm	lunghezza fondazione	330	el=	0,40 m	--->	L'=	2,50 m
H	=	100	cm	altezza suola fondazione						
D	=	165	cm	profondità di posa						

AZIONI				Gkfond	Gk	Qk
N	=	591,25	kN	272,25	319,00	0,00
Mb	=	410,00	kNm		410,00	0,00
Ml	=	237,00	kNm		237,00	0,00
Tb	=	54,00	kN		54,00	0,00
Tl	=	31,00	kN		31,00	0,00
Ht	=	62,27	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	995,47	kN/mq	q=	123,70	kN/mq	8,05	verificato	R1 = 1,0
		9,95	kg/cmq		1,24	kg/cmq	3,50		R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							5,37	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							2,38	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P3x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=	0	°	inclinazione fondazione	ATTENZIONE			
$\beta 2$	=	0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°	
$\gamma 1$	=	19,00	kN/mc	peso specifico efficace				
γsat	=	21,00	kN/mc	peso specifico saturo				
$\gamma 2$	=	19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)				
c	0,00	0,00	kN/mq	coesione c'				
φ	32	32,00	°	attrito interno terreno sottostante la fondazione	φ'			
Zw		30,00	m	profondità falda				

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	370	cm	lato fondazione	eb=	0,42 m	--->	B'=	2,86 m
L	=	400	cm	lunghezza fondazione	el=	0,71 m	--->	L'=	2,59 m
H	=	50	cm	altezza suola fondazione					
D	=	150	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	985,53	kN	185,00	800,53	0,00
Mb	=	413,00	kNm		413,00	0,00
Ml	=	697,00	kNm		697,00	0,00
Tb	=	202,00	kN		202,00	0,00
Tl	=	106,00	kN		106,00	0,00
Ht	=	228,12	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1103,00	kN/mq	q=	133,19	kN/mq	8,28	verificato	R1 = 1,0
		11,03	kg/cmq		1,33	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,70	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							4,41	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P3y

Tensioni efficaci — (compilare i campi in arancione)

=	0	°	inclinazione fondazione	ATTENZIONE				
=	0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°		
=	19,00	kN/mc	peso specifico efficace					
=	21,00	kN/mc	peso specifico saturo					
=	19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)					
0,00	0,00	kN/mq	coesione c'					
32	32,00	°	attrito interno terreno sottostante la fondazione	φ'				
	30,00	m	profondità falda					

IA FONDAZIONE				FONDAZIONE RIDOTTA				
=	370	cm	lato fondazione	eb=	0,07 m	--->	B'=	3,57 m
=	400	cm	lunghezza fondazione	el=	0,14 m	--->	L'=	3,72 m
=	50	cm	altezza suola fondazione					
=	150	cm	profondità di posa					

			Gkfond	Gk	Qk
=	985,53	kN	185,00	800,53	0,00
=	66,00	kNm		263,00	0,00
=	140,00	kNm		787,00	0,00
=	54,00	kN		77,00	0,00
=	110,00	kN		184,00	0,00
=	122,54	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

IMITE				PRESSIONE AGENTE			FS		
=	1420,12	kN/mq		q=	74,37	kN/mq	19,09	verificato	R1 = 1,0
	14,20	kg/cmq			0,74	kg/cmq			R2 = 1,8
									R3 = 2,3
DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							5,03	OK verificato	
DI SICUREZZA AL RIBALTAMENTO:							27,62	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P5x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	450	cm	lato fondazione	eb=	1,18 m	--->	B'=	2,14 m
L	=	450	cm	lunghezza fondazione	el=	0,36 m	--->	L'=	3,79 m
H	=	50	cm	altezza suola fondazione					
D	=	175	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	896,73	kN	253,13	643,61	0,00
Mb	=	1059,00	kNm		1059,00	0,00
Ml	=	319,00	kNm		319,00	0,00
Tb	=	139,00	kN		139,00	0,00
Tl	=	42,00	kN		42,00	0,00
Ht	=	145,21	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	892,30	kN/mq	q=	110,70	kN/mq	8,06	verificato	R1 = 1,0
		8,92	kg/cmq		1,11	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,49	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,91	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P5y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	450	cm	lato fondazione	eb=	1,21 m	--->	B'=	2,08 m
L	=	450	cm	lunghezza fondazione	el=	0,35 m	--->	L'=	3,79 m
H	=	50	cm	altezza suola fondazione					
D	=	175	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	896,73	kN	253,13	643,61	0,00
Mb	=	1083,00	kNm		318,00	0,00
Ml	=	318,00	kNm		1083,00	0,00
Tb	=	142,00	kN		42,00	0,00
Tl	=	42,00	kN		142,00	0,00
Ht	=	148,08	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	880,68	kN/mq	q=	113,48	kN/mq	7,76	verificato	R1 = 1,0
		8,81	kg/cmq		1,13	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,43	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,86	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P6x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	380	cm	lato fondazione	eb=	1,16 m	--->	B'=	1,49 m
L	=	380	cm	lunghezza fondazione	el=	0,43 m	--->	L'=	2,94 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	656,82	kN	144,40	512,42	0,00
Mb	=	760,00	kNm		760,00	0,00
Ml	=	281,00	kNm		281,00	0,00
Tb	=	100,00	kN		100,00	0,00
Tl	=	37,00	kN		37,00	0,00
Ht	=	106,63	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	780,09	kN/mq	q=	150,14	kN/mq	5,20	verificato	R1 = 1,0
		7,80	kg/cmq		1,50	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,49	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,64	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P6y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	380	cm	lato fondazione	eb=	1,45 m	--->	B'=	0,90 m
L	=	380	cm	lunghezza fondazione	el=	0,35 m	--->	L'=	3,11 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	656,82	kN	144,40	512,42	0,00
Mb	=	954,00	kNm		228,00	0,00
Ml	=	228,00	kNm		954,00	0,00
Tb	=	125,00	kN		30,00	0,00
Tl	=	30,00	kN		125,00	0,00
Ht	=	128,55	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	638,02	kN/mq	q=	236,27	kN/mq	2,70	verificato	R1 = 1,0
		6,38	kg/cmq		2,36	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,89	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,31	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P7.1x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	eb=	1,14 m	--->	B'=	1,02 m
L	=	330	cm	lunghezza fondazione	el=	0,33 m	--->	L'=	2,64 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	565,49	kN	108,90	456,59	0,00
Mb	=	644,00	kNm		644,00	0,00
Ml	=	186,00	kNm		186,00	0,00
Tb	=	84,00	kN		84,00	0,00
Tl	=	28,00	kN		28,00	0,00
Ht	=	88,54	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	735,84	kN/mq	q=	209,35	kN/mq	3,51	verificato	R1 = 1,0
		7,36	kg/cmq		2,09	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,61	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,45	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P7.1y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	eb=	1,19 m	--->	B'=	0,92 m
L	=	330	cm	lunghezza fondazione	el=	0,34 m	--->	L'=	2,62 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	565,49	kN	108,90	456,59	0,00
Mb	=	673,00	kNm		193,00	0,00
Ml	=	193,00	kNm		673,00	0,00
Tb	=	87,00	kN		25,00	0,00
Tl	=	25,00	kN		87,00	0,00
Ht	=	90,52	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	714,17	kN/mq	q=	234,90	kN/mq	3,04	verificato	R1 = 1,0
		7,14	kg/cmq		2,35	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,53	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,39	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P7.2x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	eb=	1,14 m	--->	B'=	1,02 m
L	=	330	cm	lunghezza fondazione	el=	0,31 m	--->	L'=	2,68 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	565,49	kN	108,90	456,59	0,00
Mb	=	644,00	kNm		644,00	0,00
Ml	=	176,00	kNm		176,00	0,00
Tb	=	84,00	kN		84,00	0,00
Tl	=	23,00	kN		23,00	0,00
Ht	=	87,09	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	736,74	kN/mq	q=	206,59	kN/mq	3,57	verificato	R1 = 1,0
		7,37	kg/cmq		2,07	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,67	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,45	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P7.2y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	eb=	1,18 m	--->	B'=	0,93 m
L	=	330	cm	lunghezza fondazione	el=	0,34 m	--->	L'=	2,62 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	565,49	kN	108,90	456,59	0,00
Mb	=	670,00	kNm		193,00	0,00
Ml	=	193,00	kNm		670,00	0,00
Tb	=	88,00	kN		25,00	0,00
Tl	=	25,00	kN		88,00	0,00
Ht	=	91,48	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	713,07	kN/mq	q=	232,22	kN/mq	3,07	verificato	R1 = 1,0
		7,13	kg/cmq		2,32	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,50	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,39	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P7.3x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	eb=	1,10 m	--->	B'=	1,10 m
L	=	330	cm	lunghezza fondazione	el=	0,29 m	--->	L'=	2,72 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	587,49	kN	108,90	478,59	0,00
Mb	=	645,00	kNm		645,00	0,00
Ml	=	169,00	kNm		169,00	0,00
Tb	=	84,00	kN		84,00	0,00
Tl	=	22,00	kN		22,00	0,00
Ht	=	86,83	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	756,94	kN/mq	q=	195,27	kN/mq	3,88	verificato	R1 = 1,0
		7,57	kg/cmq		1,95	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,83	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,50	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P7.3y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	eb=	1,32 m	--->	B'=	0,66 m
L	=	330	cm	lunghezza fondazione	el=	0,33 m	--->	L'=	2,64 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	587,49	kN	108,90	478,59	0,00
Mb	=	776,00	kNm		193,00	0,00
Ml	=	193,00	kNm		776,00	0,00
Tb	=	102,00	kN		25,00	0,00
Tl	=	25,00	kN		102,00	0,00
Ht	=	105,02	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	642,38	kN/mq	q=	337,69	kN/mq	1,90	NON verificato	R1 = 1,0
		6,42	kg/cmq		3,38	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,16	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,25	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P8.1x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	360	cm	lato fondazione	eb=	1,28 m	--->	B'=	1,04 m
L	=	360	cm	lunghezza fondazione	el=	0,31 m	--->	L'=	2,99 m
H	=	50	cm	altezza suola fondazione					
D	=	175	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	689,59	kN	162,00	527,59	0,00
Mb	=	883,00	kNm		883,00	0,00
Ml	=	211,00	kNm		211,00	0,00
Tb	=	116,00	kN		116,00	0,00
Tl	=	28,00	kN		28,00	0,00
Ht	=	119,33	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	735,92	kN/mq	q=	222,11	kN/mq	3,31	verificato	R1 = 1,0
		7,36	kg/cmq		2,22	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,27	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,41	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P8.1y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	360	cm	lato fondazione	eb=	1,10 m	--->	B'=	1,40 m
L	=	360	cm	lunghezza fondazione	el=	0,38 m	--->	L'=	2,83 m
H	=	50	cm	altezza suola fondazione					
D	=	175	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	689,59	kN	162,00	527,59	0,00
Mb	=	760,00	kNm		265,00	0,00
Ml	=	265,00	kNm		760,00	0,00
Tb	=	100,00	kN		35,00	0,00
Tl	=	35,00	kN		100,00	0,00
Ht	=	105,95	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	830,90	kN/mq	q=	174,49	kN/mq	4,76	verificato	R1 = 1,0
		8,31	kg/cmq		1,74	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,68	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,63	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P8.2x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	360	cm	lato fondazione	eb=	1,28 m	--->	B'=	1,04 m
L	=	360	cm	lunghezza fondazione	el=	0,36 m	--->	L'=	2,87 m
H	=	50	cm	altezza suola fondazione					
D	=	175	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	689,59	kN	162,00	527,59	0,00
Mb	=	884,00	kNm		884,00	0,00
Ml	=	250,00	kNm		250,00	0,00
Tb	=	116,00	kN		116,00	0,00
Tl	=	26,00	kN		26,00	0,00
Ht	=	118,88	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	740,48	kN/mq	q=	231,49	kN/mq	3,20	verificato	R1 = 1,0
		7,40	kg/cmq		2,31	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,28	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,40	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P8.2y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	360	cm	lato fondazione	eb=	1,09 m	--->	B'=	1,41 m
L	=	360	cm	lunghezza fondazione	el=	0,38 m	--->	L'=	2,83 m
H	=	50	cm	altezza suola fondazione					
D	=	175	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	689,59	kN	162,00	527,59	0,00
Mb	=	755,00	kNm		265,00	0,00
Ml	=	265,00	kNm		755,00	0,00
Tb	=	97,00	kN		35,00	0,00
Tl	=	35,00	kN		97,00	0,00
Ht	=	103,12	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	840,54	kN/mq	q=	172,69	kN/mq	4,87	verificato	R1 = 1,0
		8,41	kg/cmq		1,73	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,78	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,64	OK verificato	

ali progetti architettura.ingegneria

FONDAZIONI DIRETTE — PLINTO N. P9x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	390	cm	lato fondazione	eb=	1,22 m	--->	B'=	1,45 m
L	=	390	cm	lunghezza fondazione	el=	0,44 m	--->	L'=	3,02 m
H	=	50	cm	altezza suola fondazione					
D	=	175	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	782,74	kN	190,13	592,62	0,00
Mb	=	958,00	kNm		958,00	0,00
Ml	=	346,00	kNm		346,00	0,00
Tb	=	126,00	kN		126,00	0,00
Tl	=	26,00	kN		26,00	0,00
Ht	=	128,65	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	807,77	kN/mq	q=	178,72	kN/mq	4,52	verificato	R1 = 1,0
		8,08	kg/cmq		1,79	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,44	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,59	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P9y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	390	cm	lato fondazione	eb=	1,20 m	--->	B'=	1,50 m
L	=	390	cm	lunghezza fondazione	el=	0,37 m	--->	L'=	3,17 m
H	=	50	cm	altezza suola fondazione					
D	=	175	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	782,74	kN	190,13	592,62	0,00
Mb	=	940,00	kNm		287,00	0,00
Ml	=	287,00	kNm		940,00	0,00
Tb	=	118,00	kN		38,00	0,00
Tl	=	38,00	kN		118,00	0,00
Ht	=	123,97	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	820,81	kN/mq	q=	164,99	kN/mq	4,98	verificato	R1 = 1,0
		8,21	kg/cmq		1,65	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,57	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,62	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P10x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		19,00	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		32	32,00	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE						FONDAZIONE RIDOTTA				
B	=	370	cm	lato fondazione		eb=	0,36 m	--->	B'=	2,97 m
L	=	400	cm	lunghezza fondazione		el=	0,65 m	--->	L'=	2,70 m
H	=	50	cm	altezza suola fondazione						
D	=	150	cm	profondità di posa						

AZIONI				Gkfond	Gk	Qk
N	=	1137,56	kN	185,00	952,56	0,00
Mb	=	414,00	kNm		414,00	0,00
Ml	=	740,00	kNm		740,00	0,00
Tb	=	202,00	kN		202,00	0,00
Tl	=	139,00	kN		139,00	0,00
Ht	=	245,20	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1145,24	kN/mq	q=	141,81	kN/mq	8,08	verificato	R1 = 1,0
		11,45	kg/cmq		1,42	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,90	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							5,08	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P10y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		19,00	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		32	32,00	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE						FONDAZIONE RIDOTTA				
B	=	370	cm	lato fondazione		eb=	0,23 m	--->	B'=	3,24 m
L	=	400	cm	lunghezza fondazione		el=	0,81 m	--->	L'=	2,38 m
H	=	50	cm	altezza suola fondazione						
D	=	150	cm	profondità di posa						

AZIONI				Gkfond	Gk	Qk
N	=	1137,56	kN	185,00	952,56	0,00
Mb	=	263,00	kNm		263,00	0,00
Ml	=	924,00	kNm		924,00	0,00
Tb	=	77,00	kN		77,00	0,00
Tl	=	293,00	kN		293,00	0,00
Ht	=	302,95	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1040,11	kN/mq	q=	147,91	kN/mq	7,03	verificato	R1 = 1,0
		10,40	kg/cmq		1,48	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,35	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							8,00	OK verificato	

ai progetti architettura.ingegneria

FONDAZIONI DIRETTE — PLINTO N. P11Ax

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		19,00	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		32	32,00	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	370	cm	lato fondazione	eb=	0,38 m	--->	B'=	2,95 m
L	=	400	cm	lunghezza fondazione	el=	0,66 m	--->	L'=	2,69 m
H	=	50	cm	altezza suola fondazione					
D	=	150	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	1100,49	kN	185,00	915,49	0,00
Mb	=	414,00	kNm		414,00	0,00
Ml	=	722,00	kNm		722,00	0,00
Tb	=	202,00	kN		202,00	0,00
Tl	=	126,00	kN		126,00	0,00
Ht	=	238,08	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1141,80	kN/mq	q=	138,90	kN/mq	8,22	verificato	R1 = 1,0
		11,42	kg/cmq		1,39	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,89	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							4,92	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P11Ay

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		19,00	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		32	32,00	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	370	cm	lato fondazione	eb=	0,24 m	--->	B'=	3,22 m
L	=	400	cm	lunghezza fondazione	el=	0,80 m	--->	L'=	2,40 m
H	=	50	cm	altezza suola fondazione					
D	=	150	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	1100,49	kN	185,00	915,49	0,00
Mb	=	263,00	kNm		263,00	0,00
Ml	=	883,00	kNm		883,00	0,00
Tb	=	77,00	kN		77,00	0,00
Tl	=	260,00	kN		260,00	0,00
Ht	=	271,16	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1089,04	kN/mq	q=	142,59	kN/mq	7,64	verificato	R1 = 1,0
		10,89	kg/cmq		1,43	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,54	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							7,74	OK verificato	

progetti architettura.ingegneria

FONDAZIONI DIRETTE — PLINTO N. P11x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		19,00	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		32	32,00	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	370	cm	lato fondazione	eb=	0,37 m	--->	B'=	2,96 m
L	=	400	cm	lunghezza fondazione	el=	0,66 m	--->	L'=	2,68 m
H	=	50	cm	altezza suola fondazione					
D	=	150	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	1116,36	kN	185,00	931,36	0,00
Mb	=	414,00	kNm		414,00	0,00
Ml	=	736,00	kNm		736,00	0,00
Tb	=	202,00	kN		202,00	0,00
Tl	=	136,00	kN		136,00	0,00
Ht	=	243,52	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1138,54	kN/mq	q=	140,73	kN/mq	8,09	verificato	R1 = 1,0
		11,39	kg/cmq		1,41	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,86	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							4,99	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P11y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		19,00	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		32	32,00	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	370	cm	lato fondazione	eb=	0,24 m	--->	B'=	3,23 m
L	=	400	cm	lunghezza fondazione	el=	0,79 m	--->	L'=	2,42 m
H	=	50	cm	altezza suola fondazione					
D	=	150	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	1116,36	kN	185,00	931,36	0,00
Mb	=	263,00	kNm		263,00	0,00
Ml	=	880,00	kNm		880,00	0,00
Tb	=	77,00	kN		77,00	0,00
Tl	=	258,00	kN		258,00	0,00
Ht	=	269,25	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1101,63	kN/mq	q=	142,67	kN/mq	7,72	verificato	R1 = 1,0
		11,02	kg/cmq		1,43	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,59	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							7,85	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. P12x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		19,00	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		32	32,00	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE						FONDAZIONE RIDOTTA				
B	=	370	cm	lato fondazione		eb=	0,34 m	--->	B'=	3,01 m
L	=	400	cm	lunghezza fondazione		el=	0,63 m	--->	L'=	2,74 m
H	=	50	cm	altezza suola fondazione						
D	=	150	cm	profondità di posa						

AZIONI				Gkfond	Gk	Qk
N	=	1204,77	kN	185,00	1019,77	0,00
Mb	=	414,00	kNm		414,00	0,00
Ml	=	756,00	kNm		756,00	0,00
Tb	=	202,00	kN		202,00	0,00
Tl	=	153,00	kN		153,00	0,00
Ht	=	253,40	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1159,39	kN/mq	q=	145,68	kN/mq	7,96	verificato	R1 = 1,0
		11,59	kg/cmq		1,46	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,97	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							5,38	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P12y

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		19,00	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		19,00	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		32	32,00	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE						FONDAZIONE RIDOTTA				
B	=	370	cm	lato fondazione		eb=	0,22 m	--->	B'=	3,26 m
L	=	400	cm	lunghezza fondazione		el=	0,76 m	--->	L'=	2,48 m
H	=	50	cm	altezza suola fondazione						
D	=	150	cm	profondità di posa						

AZIONI				Gkfond	Gk	Qk
N	=	1204,77	kN	185,00	1019,77	0,00
Mb	=	263,00	kNm		263,00	0,00
Ml	=	913,00	kNm		913,00	0,00
Tb	=	77,00	kN		77,00	0,00
Tl	=	284,00	kN		284,00	0,00
Ht	=	294,25	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1093,19	kN/mq	q=	148,60	kN/mq	7,36	verificato	R1 = 1,0
		10,93	kg/cmq		1,49	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							2,56	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							8,47	OK verificato	

progetti architettura.ingegneria

FONDAZIONI DIRETTE — PLINTO N. T01x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					Valore SDF	FONDAZIONE RIDOTTA				
B	=	250	cm	lato fondazione	250	eb=	1,03 m	--->	B'=	0,45 m
L	=	250	cm	lunghezza fondazione	250	el=	0,28 m	--->	L'=	1,93 m
H	=	145	cm	altezza suola fondazione						
D	=	165	cm	profondità di posa						

AZIONI				Gkfond	Gk	Qk
N	=	326,56	kN	226,56	100,00	0,00
Mb	=	335,00	kNm		335,00	0,00
Ml	=	93,00	kNm		93,00	0,00
Tb	=	38,00	kN		38,00	0,00
Tl	=	11,00	kN		11,00	0,00
Ht	=	39,56	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	715,12	kN/mq	q=	377,33	kN/mq	1,90	NON verificato	R1 = 1,0
		7,15	kg/cmq		3,77	kg/cmq	0,82		R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							4,67	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,22	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P04x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	250	cm	lato fondazione	eb=	0,96 m	--->	B'=	0,59 m
L	=	250	cm	lunghezza fondazione	el=	0,29 m	--->	L'=	1,92 m
H	=	40	cm	altezza suola fondazione					
D	=	165	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	267,80	kN	62,50	205,30	0,00
Mb	=	256,00	kNm		256,00	0,00
Ml	=	77,00	kNm		77,00	0,00
Tb	=	30,00	kN		30,00	0,00
Tl	=	7,00	kN		7,00	0,00
Ht	=	30,81	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	754,84	kN/mq	q=	236,55	kN/mq	3,19	verificato	R1 = 1,0
		7,55	kg/cmq		2,37	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							4,92	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,31	OK verificato	

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FONDAZIONI DIRETTE — PLINTO N. T03bisx

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	280	cm	lato fondazione	eb=	1,20 m	--->	B'=	0,40 m
L	=	280	cm	lunghezza fondazione	el=	0,36 m	--->	L'=	2,08 m
H	=	40	cm	altezza suola fondazione					
D	=	125	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	226,63	kN	78,40	148,23	0,00
Mb	=	272,00	kNm		272,00	0,00
Ml	=	82,00	kNm		82,00	0,00
Tb	=	31,00	kN		31,00	0,00
Tl	=	9,00	kN		9,00	0,00
Ht	=	32,28	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	509,83	kN/mq	q=	273,14	kN/mq	1,87	NON verificato	R1 = 1,0
		5,10	kg/cmq		2,73	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,97	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							1,17	OK verificato	

FONDAZIONI DIRETTE — PLINTO N. P1314x

Tensioni efficaci — (compilare i campi in arancione)

TERRENO								
$\beta 1$	=		0	°	inclinazione fondazione	ATTENZIONE		
$\beta 2$	=		0	°	inclinazione piano campagna	$\beta 1+\beta 2$	<	45°
$\gamma 1$	=		18,50	kN/mc	peso specifico efficace			
γsat	=		21,00	kN/mc	peso specifico saturo			
$\gamma 2$	=		18,50	kN/mc	valore di γ nel terzo termine del qlim in funzione della posizione della falda se Zw<D o Zw>(D+B)			
c		0,00	0,00	kN/mq	coesione c'			
φ		29,5	29,50	°	attrito interno terreno sottostante la fondazione	φ'		
Zw			30,00	m	profondità falda			

GEOMETRIA FONDAZIONE					FONDAZIONE RIDOTTA				
B	=	330	cm	lato fondazione	eb=	0,32 m	--->	B'=	2,66 m
L	=	560	cm	lunghezza fondazione	el=	1,35 m	--->	L'=	2,90 m
H	=	50	cm	altezza suola fondazione					
D	=	175	cm	profondità di posa					

AZIONI				Gkfond	Gk	Qk
N	=	1198,00	kN	231,00	967,00	0,00
Mb	=	385,00	kNm		385,00	0,00
Ml	=	1616,00	kNm		1616,00	0,00
Tb	=	61,00	kN		61,00	0,00
Tl	=	167,00	kN		167,00	0,00
Ht	=	177,79	kN			

SCEGLI la combinazione

- ○ A1+M1+R1 — 3 — 2,3
- ○ A2+M2+R2
- ◉ A1+M1+R3

CARICO LIMITE				PRESSIONE AGENTE			FS		
qlim	=	1020,32	kN/mq	q=	155,35	kN/mq	6,57	verificato	R1 = 1,0
		10,20	kg/cmq		1,55	kg/cmq			R2 = 1,8
									R3 = 2,3
FATTORE DI SICUREZZA ALLO SCORRIMENTO: Sd / Hd							3,81	OK verificato	
FATTORE DI SICUREZZA AL RIBALTAMENTO:							5,13	OK verificato	

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