

Caratteristiche materiali:

Muratura poroton:		Muratura in pietra	
Modulo elastico E=	5000 N/mmq	Modulo elastico E=	1230 N/mmq
Modulo el tang. G=	2000 N/mmq	Modulo el tang. G=	492 N/mmq
f d =	2.445 N/mmq	f d =	0.78 N/mmq
f v d =	0.1 N/mmq	f v d =	0.0125 N/mmq

Azione tagliante agente X:	396270 N	x t =	5405 mm	y t =	6814 mm
Azione tagliante agente Y:	0 N				

Piano terreno SISMA X																							
Baricentro rigidez.																							
		X r =		4437 mm		Y r =		6357 mm		eccentricità taglio		X t =		968 mm		Y t =		458 mm		M torc		1.81E+08 Nmm	
Setto	h	Lx	Ly	x g	y g	efficace lungo		Area	vincolo	Area eff	Materiale	I x	I y	K x	K y	y g * K x	x g * K y	x g	y g	x g	y g	yg^2 *K x	xg^2 *K y
	(mm)	(mm)	(mm)			x	y	(mmq)		(mmq)								relativo	relativo				
1	3000	3260	620	1630	310	1	1	0	2021200	100%	2021200	2	1.79E+12	0.00E+00	2.15E+05	0.00E+00	6.68E+07	0.00E+00	-2807	-6047	7.88E+12	0.00E+00	
3	3000	3730	620	6840	310	1	0	0	2312600	100%	2312600	2	2.68E+12	0.00E+00	2.60E+05	0.00E+00	8.06E+07	0.00E+00	2403	-6047	9.51E+12	0.00E+00	
4	3000	630	1300	10780	650	0	1	1	819000	100%	819000	2	0.00E+00	1.15E+11	0.00E+00	4.03E+04	0.00E+00	4.35E+08	6343	-5707	0.00E+00	1.62E+12	
5	3000	520	4370	260	2800	0	1	0	2272400	100%	2272400	2	0.00E+00	3.62E+12	0.00E+00	2.68E+05	0.00E+00	6.98E+07	-4177	-3557	0.00E+00	4.68E+12	
6	3000	1270	520	2760	3060	1	0	0	660400	100%	660400	2	8.88E+10	0.00E+00	3.16E+04	0.00E+00	9.66E+07	0.00E+00	-1677	-3297	3.43E+11	0.00E+00	
7	3000	650	3110	5300	2170	0	1	1	2021500	100%	2021500	2	0.00E+00	1.63E+12	0.00E+00	2.11E+05	0.00E+00	1.12E+09	863	-4187	0.00E+00	1.57E+11	
8	3000	630	1150	10780	3120	0	1	1	724500	100%	724500	2	0.00E+00	7.98E+10	0.00E+00	3.03E+04	0.00E+00	3.27E+08	6343	-3237	0.00E+00	1.22E+12	
9	3000	650	2460	5300	6020	0	1	1	1599000	100%	1599000	2	0.00E+00	8.06E+11	0.00E+00	1.46E+05	0.00E+00	7.74E+08	863	-337	0.00E+00	1.09E+11	
10b	3000	630	2480	10780	6010	0	1	1	1562400	100%	1562400	2	0.00E+00	8.01E+11	0.00E+00	1.44E+05	0.00E+00	1.55E+09	6343	-347	0.00E+00	5.77E+12	
	10a	3000	630	1700	10780	8100	0	1	1071000	100%	1071000	2	0.00E+00	2.58E+11	0.00E+00	7.18E+04	0.00E+00	7.74E+08	6343	1743	0.00E+00	2.89E+12	
11	3000	520	5510	260	10330	0	1	1	2865200	100%	2865200	2	0.00E+00	7.25E+12	0.00E+00	3.56E+05	0.00E+00	9.27E+07	-4177	3973	0.00E+00	6.22E+12	
12	3000	650	1970	5300	9210	0	1	0	1280500	100%	1280500	2	0.00E+00	4.14E+11	0.00E+00	9.87E+04	0.00E+00	5.23E+08	863	2853	0.00E+00	7.36E+10	
13	3000	2800	600	8130	8520	1	0	0	1680000	100%	1680000	2	1.10E+12	0.00E+00	1.66E+05	0.00E+00	1.41E+09	0.00E+00	3693	2163	7.77E+11	0.00E+00	
14	3000	630	1190	10780	10760	0	1	1	749700	100%	749700	2	0.00E+00	8.85E+10	0.00E+00	3.29E+04	0.00E+00	3.54E+08	6343	4403	0.00E+00	1.32E+12	
16	3000	650	1300	5300	12440	0	1	1	845000	100%	845000	2	0.00E+00	1.19E+11	0.00E+00	4.16E+04	0.00E+00	2.21E+08	863	6083	0.00E+00	3.10E+10	
17	3000	2340	630	130	13410	1	0	0	1474200	100%	1474200	2	6.73E+11	0.00E+00	1.30E+05	0.00E+00	1.75E+09	0.00E+00	-4307	7053	6.48E+12	0.00E+00	
18	3000	1020	630	2740	13410	1	0	0	642600	100%	642600	2	5.57E+10	0.00E+00	2.26E+04	0.00E+00	3.03E+08	0.00E+00	-1697	7053	1.13E+12	0.00E+00	
19	3000	2350	630	5750	13410	1	0	0	1480500	100%	1480500	2	6.81E+11	0.00E+00	1.31E+05	0.00E+00	1.76E+09	0.00E+00	1313	7053	6.52E+12	0.00E+00	
20	3000	3040	630	8950	13410	1	0	0	1915200	100%	1915200	2	1.47E+12	0.00E+00	1.98E+05	0.00E+00	2.65E+09	0.00E+00	4513	7053	9.83E+12	0.00E+00	
21	3000	630	1060	10780	13190	0	1	1	667800	100%	667800	2	0.00E+00	6.25E+10	0.00E+00	2.49E+04	0.00E+00	2.68E+08	6343	6833	0.00E+00	1.00E+12	
22	3000	2910	400	1980	4730	1	0	0	1164000	100%	1164000	1	8.21E+11	0.00E+00	4.78E+05	0.00E+00	2.26E+09	0.00E+00	-2457	-1627	1.26E+12	0.00E+00	
															1.63E+06	1.47E+06	1.04E+10	6.50E+09			4.37E+13	2.51E+13	

Azione tagliante agente X:	0 N	x t =	5405 mm	y t =	6814 mm
Azione tagliante agente Y:	396269.8488 N				

Piano terreno SISMA Y																							
Baricentro rigidez.		X r =		4437 mm		Y r =		6357 mm		eccentricità taglio		X t =		968 mm		Y t =		458 mm		M torc		3.84E+08 Nmm	
Setto	h (mm)	Lx (mm)	Ly (mm)	x g	y g	efficace lungo		Area (mmq)	vincolo	Area eff (mmq)	Materiale	I x	I y	K x	K y	y g * K x	x g * K y	x g relativo	y g relativo	yg^2 * K x	yg^2 * K y		
						x	y																
1	3000	3260	620	1630	310	1	0	2021200	100%	2021200		2	1.79E+12	0.00E+00	2.15E+05	0.00E+00	6.68E+07	0.00E+00	-2807	-6047	7.88E+12	0.00E+00	
3	3000	3730	620	6840	310	1	0	2312600	100%	2312600		2	2.68E+12	0.00E+00	2.60E+05	0.00E+00	8.06E+07	0.00E+00	2403	-6047	9.51E+12	0.00E+00	
4	3000	630	1300	10780	650	0	1	819000	100%	819000		2	0.00E+00	1.15E+11	0.00E+00	4.03E+04	0.00E+00	4.35E+08	6343	-5707	0.00E+00	1.62E+12	
5	3000	520	4370	260	2800	0	1	2272400	100%	2272400		2	0.00E+00	3.62E+12	0.00E+00	2.68E+05	0.00E+00	6.98E+07	-4177	-3557	0.00E+00	4.68E+12	
6	3000	1270	520	2760	3060	1	0	660400	100%	660400		2	8.88E+10	0.00E+00	3.16E+04	0.00E+00	9.66E+07	0.00E+00	-1677	-3297	3.43E+11	0.00E+00	
7	3000	650	3110	5300	2170	0	1	2021500	100%	2021500		2	0.00E+00	1.63E+12	0.00E+00	2.11E+05	0.00E+00	1.12E+09	863	-4187	0.00E+00	1.57E+11	
8	3000	630	1150	10780	3120	0	1	724500	100%	724500		2	0.00E+00	7.98E+10	0.00E+00	3.03E+04	0.00E+00	3.27E+08	6343	-3237	0.00E+00	1.22E+12	
9	3000	650	2460	5300	6020	0	1	1599000	100%	1599000		2	0.00E+00	8.06E+11	0.00E+00	1.46E+05	0.00E+00	7.74E+08	863	-337	0.00E+00	1.09E+11	
10b	3000	630	2480	10780	6010	0	1	1562400	100%	1562400		2	0.00E+00	8.01E+11	0.00E+00	1.44E+05	0.00E+00	1.55E+09	6343	-347	0.00E+00	5.77E+12	
10a	3000	630	1700	10780	8100	0	1	1071000	100%	1071000		2	0.00E+00	2.58E+11	0.00E+00	7.18E+04	0.00E+00	7.74E+08	6343	1743	0.00E+00	2.89E+12	
11	3000	520	5510	260	10330	0	1	2865200	100%	2865200		2	0.00E+00	7.25E+12	0.00E+00	3.56E+05	0.00E+00	9.27E+07	-4177	3973	0.00E+00	6.22E+12	
12	3000	650	1970	5300	9210	0	1	1280500	100%	1280500		2	0.00E+00	4.14E+11	0.00E+00	9.87E+04	0.00E+00	5.23E+08	863	2853	0.00E+00	7.36E+10	
13	3000	2800	600	8130	8520	1	0	1680000	100%	1680000		2	1.10E+12	0.00E+00	1.66E+05	0.00E+00	1.41E+09	0.00E+00	3693	2163	7.77E+11	0.00E+00	
14	3000	630	1190	10780	10760	0	1	749700	100%	749700		2	0.00E+00	8.85E+10	0.00E+00	3.29E+04	0.00E+00	3.54E+08	6343	4403	0.00E+00	1.32E+12	
16	3000	650	1300	5300	12440	0	1	845000	100%	845000		2	0.00E+00	1.19E+11	0.00E+00	4.16E+04	0.00E+00	2.21E+08	863	6083	0.00E+00	3.10E+10	
17	3000	2340	630	130	13410	1	0	1474200	100%	1474200		2	6.73E+11	0.00E+00	1.30E+05	0.00E+00	1.75E+09	0.00E+00	-4307	7053	6.48E+12	0.00E+00	
18	3000	1020	630	2740	13410	1	0	642600	100%	642600		2	5.57E+10	0.00E+00	2.26E+04	0.00E+00	3.03E+08	0.00E+00	-1697	7053	1.13E+12	0.00E+00	
19	3000	2350	630	5750	13410	1	0	1480500	100%	1480500		2	6.81E+11	0.00E+00	1.31E+05	0.00E+00	1.76E+09	0.00E+00	1313	7053	6.52E+12	0.00E+00	
20	3000	3040	630	8950	13410	1	0	1915200	100%	1915200		2	1.47E+12	0.00E+00	1.98E+05	0.00E+00	2.65E+09	0.00E+00	4513	7053	9.83E+12	0.00E+00	
21	3000	630	1060	10780	13190	0	1	667800	100%	667800		2	0.00E+00	6.25E+10	0.00E+00	2.49E+04	0.00E+00	2.68E+08	6343	6833	0.00E+00	1.00E+12	
22	3000	2910	400	1980	4730	1	0	1164000	100%	1164000		1	8.21E+11	0.00E+00	4.78E+05	0.00E+00	2.26E+09	0.00E+00	-2457	-1627	1.26E+12	0.00E+00	
														1.63E+06	1.47E+06	1.04E+10	6.50E+09			4.37E+13	2.51E+13		

Piano terreno SISMA X											
F x,i (N)	F y,i (N)	Setto	Setto Spess	Lungh	N d (N)	M s,d (Nmm)	f d (N/mmq)	M r,d (Nmm)	F s Preflex	ARM	
48873	0	1	620	3260	338530	146617560	0.78	412404754	0.36	no	
58985	0	3	620	3730	488879	176954243	0.78	621044396	0.28	no	
0	-674	4	630	1300	214126	2023358	0.78	84296710	0.02	no	
0	2955	5	520	4370	397752	8865623	0.78	639643501	0.01	no	
7388	0	6	520	1270	49224	22164701	0.78	27743198	0.80	no	
0	-480	7	650	3110	491236	1439685	0.78	483894081	0.00	no	
0	-507	8	630	1150	221261	1519757	0.78	68621299	0.02	no	
0	-333	9	650	2460	364774	997505	0.78	294291926	0.00	no	
0	-2400	10b	630	2480	329779	7199966	0.78	278740759	0.03	no	
0	-1201	10a	630	1700	255746	3602857	0.78	139089077	0.03	no	
0	3924	11	520	5510	492528	11771281	0.78	1005099130	0.01	no	
0	-225	12	650	1970	362676	673889	0.78	204626589	0.00	no	
41267	0	13	600	2800	240293	123802415	0.78	263834971	0.47	no	
0	-549	14	630	1190	221060	1648229	0.78	73033367	0.02	no	
0	-95	16	650	1300	234969	284114	0.78	88673174	0.00	no	
34025	0	17	630	2340	259812	102073673	0.78	223175765	0.46	no	
5911	0	18	630	1020	148276	17734248	0.78	49302471	0.36	no	
34273	0	19	630	2350	312906	102818958	0.78	250460206	0.41	no	
51653	0	20	630	3040	291606	154959850	0.78	341450576	0.45	no	
0	-416	21	630	1060	176434	1247546	0.78	56246748	0.02	no	
113895	0	22	400	2910	149680	341683898	2.445	204309059	A	si	
396270											



Piano terreno SISMA Y

F x,i (N)	F y,i (N)	Setto	Setto Spess	Lungh	N setto (N)	M setto (Nmm)	f d (N/mm ²)	M r,d (Nmm)	F s	ARM
-7262	0	1	620	3260	338530	21785238	0.78	412404754	0.05	no
-8764	0	3	620	3730	488879	26292828	0.78	621044396	0.04	no
0	9478	4	630	1300	214126	28433731	0.78	84296710	0.34	no
0	78812	5	520	4370	397752	236437193	0.78	639643501	0.37	no
-580	0	6	520	1270	49224	1739931	0.78	27743198	0.06	no
0	55994	7	650	3110	491236	167982360	0.78	483894081	0.35	no
0	7119	8	630	1150	221261	21356750	0.78	68621299	0.31	no
0	38796	9	650	2460	364774	116388768	0.78	294291926	0.40	no
0	33726	10b	630	2480	329779	101179285	0.78	278740759	0.36	no
0	16877	10a	630	1700	255746	50630021	0.78	139089077	0.36	no
0	104643	11	520	5510	492528	313928169	0.78	1005099130	0.31	no
0	26210	12	650	1970	362676	78629323	0.78	204626589	0.38	no
2003	0	13	600	2800	240293	6008444	0.78	263834971	0.02	no
0	7721	14	630	1190	221060	23162137	0.78	73033367	0.32	no
0	11050	16	650	1300	234969	33150365	0.78	88673174	0.37	no
5118	0	17	630	2340	259812	15354783	0.78	223175765	0.07	no
889	0	18	630	1020	148276	2667735	0.78	49302471	0.05	no
5156	0	19	630	2350	312906	15466895	0.78	250460206	0.06	no
7770	0	20	630	3040	291606	23310368	0.78	341450576	0.07	no
0	5844	21	630	1060	176434	17531445	0.78	56246748	0.31	no
-4330	0	22	400	2910	149680	12990230	2.445	204309059	A	si
0	396270									