



CITTA' DI TORINO

VICE DIREZIONE GENERALE INGEGNERIA

DIREZIONE SERVIZI TECNICI PER L'EDILIZIA PUBBLICA

SERVIZIO EDILIZIA SCOLASTICA

Lavori di manutenzione straordinaria nel complesso "La Marchesa" - Palestra

Circoscrizione 6 - Corso Vercelli 141

GRUPPO DI LAVORO

ATP

Ing. Alessio Camelliti

Arch. Aurelio Vergnano

Arch. Andrea Di Gregorio

IL PROGETTISTA OPERE STRUTTURALI
Ing. Alessio Camelliti

IL SUPPORTO AL RUP
Arch. Eliana Zago

PROGETTISTA E
COORDINATORE DELLA SICUREZZA
IN FASE DI PROGETTAZIONE
Geom. Luca Finotti

RESPONSABILE PROCEDIMENTO
E DIRIGENTE DEL SERVIZIO
Arch. Isabella QUINTO

PROGETTO DEFINITIVO/ESECUTIVO

OGGETTO

RELAZIONE DI CALCOLO

NOME-FILE

Scala Plot

RIFERIMENTO

SCALA

-

REV

MODIFICHE

DATA

DISEGNATORE

0

EMMISSIONE

Lug. 2012

1

2

3

4

5

TAVOLA

STRC

DATI STRUTTURA:

*** DATI STRUTTURA

Unita` di misura :
 LUNGHEZZE : cm
 SUPERFICI : cm2
 DATI SEZIONALI : cm
 ANGOLI : gradi
 FORZE : daN
 MOMENTI : daNcm
 CARICHI LINEARI : daN/cm
 CARICHI SUPERFIC.: daN/cm2
 TENSIONI : daN/cm2
 PESI DI VOLUME : daN/cm3
 COEFF. DI WINKLER: daN/cm3
 RIGIDENZE VINCOL.: daN/cm - daNcm/rad

NODI--	-----			-----	-----	-----	num.=
Nome	Coord. X	Coord. Y	Coord. Z				
1	0.000	0.000	0.000				38
2	0.000	0.000	1040.000				
3	590.000	0.000	1040.000				
4	-212.000	-150.000	0.000				
5	-212.000	-50.000	0.000				
6	-192.000	-50.000	0.000				
7	-192.000	-150.000	0.000				
8	-212.000	0.000	0.000				
9	-192.000	0.000	0.000				
10	-212.000	50.000	0.000				
11	-192.000	50.000	0.000				
12	-212.000	150.000	0.000				
13	-192.000	150.000	0.000				
14	38.000	-150.000	0.000				
15	0.000	-150.000	0.000				
16	0.000	-50.000	0.000				
17	38.000	-50.000	0.000				
18	38.000	0.000	0.000				
19	0.000	50.000	0.000				
20	38.000	50.000	0.000				
21	0.000	150.000	0.000				
22	38.000	150.000	0.000				
23	-192.000	-100.000	0.000				
24	-202.000	-50.000	0.000				
25	-202.000	-100.000	0.000				
26	-192.000	-25.000	0.000				
27	-202.000	-25.000	0.000				
28	-96.000	-50.000	0.000				
29	-96.000	-100.000	0.000				
30	-96.000	-25.000	0.000				
31	-192.000	25.000	0.000				
32	-202.000	50.000	0.000				
33	-202.000	25.000	0.000				
34	-192.000	100.000	0.000				
35	-202.000	100.000	0.000				
36	-96.000	50.000	0.000				
37	-96.000	25.000	0.000				
38	-96.000	100.000	0.000				

ASTE--	-----					-----	num.=
Nome	Proprieta`	Nodo iniz.	Nodo fin.	Rilasci in.	Rilasci fin.	Orient.	
1	1	1	2			0.0	2
2	1	2	3			0.0	

GUSCI RETTANGOLARI	-----						num.=
Nome	Proprieta`	Nodo 1	Nodo 2	Nodo 3	Nodo 4		
5	1	14	15	16	17		28
6	1	17	16	1	18		
7	1	18	1	19	20		
8	1	20	19	21	22		
13	1	23	6	24	25		
14	1	7	23	25	4		
15	1	25	24	5	4		
16	1	6	26	27	24		
17	1	24	27	8	5		
18	1	26	9	8	27		
19	1	28	6	23	29		
20	1	16	28	29	15		
21	1	29	23	7	15		
22	1	30	26	6	28		
23	1	1	9	26	30		
24	1	1	30	28	16		
25	1	31	11	32	33		
26	1	9	31	33	8		
27	1	33	32	10	8		
28	1	11	34	35	32		
29	1	32	35	12	10		

30	1	34	13	12	35
31	1	36	11	31	37
32	1	19	36	37	1
33	1	37	31	9	1
34	1	38	34	11	36
35	1	21	13	34	38
36	1	21	38	36	19

PROPRIETA` ASTE	Nome	Materiale	Base Kw vertic.	Altezza Kw orizz.	Area J tors.	Area tag. Y J fless. Y	Area tag. Z J fless. Z	num.=
1	2		34.20 0.000000	46.80 0.000000	1.83600E+02 1.12110E+04	1.83600E+02 4.20000E+04	1.83600E+02 4.20000E+04	1

PROPRIETA` GUSCI	Nome	Materiale	Sp.membr.	Sp. piastra	Kw	num.=
1	1		60.00	60.00	5.000000	1

MATERIALI	Nome	Mod. elast.	Coeff. nu	Mod. tang.	Peso spec.	Dil. te.	num.=
1		3.00000E+05	1.50000E-01	1.30000E+05	2.50000E-03	1.00000E-05	2
2		2.10000E+06	3.00000E-01	8.50000E+05	7.85000E-03	1.00000E-05	

VINCOLI	Nodo	Rigid. X	Rigid. Y	Rigid. Z	Rigid. RX	Rigid. RY	Rigid. RZ	num.=
5	bloccato	bloccato	libero	libero	libero	libero	libero	
7	bloccato	bloccato	libero	libero	libero	libero	libero	
8	bloccato	bloccato	libero	libero	libero	libero	libero	
9	bloccato	bloccato	libero	libero	libero	libero	libero	
10	bloccato	bloccato	libero	libero	libero	libero	libero	
14	bloccato	bloccato	libero	libero	libero	libero	libero	
15	bloccato	bloccato	libero	libero	libero	libero	libero	
16	bloccato	bloccato	libero	libero	libero	libero	libero	
12	bloccato	bloccato	libero	libero	libero	libero	libero	
13	bloccato	bloccato	libero	libero	libero	libero	libero	
4	bloccato	bloccato	libero	libero	libero	libero	libero	
23	bloccato	bloccato	libero	libero	libero	libero	libero	
24	bloccato	bloccato	libero	libero	libero	libero	libero	
25	bloccato	bloccato	libero	libero	libero	libero	libero	
26	bloccato	bloccato	libero	libero	libero	libero	libero	
27	bloccato	bloccato	libero	libero	libero	libero	libero	
28	bloccato	bloccato	libero	libero	libero	libero	libero	
29	bloccato	bloccato	libero	libero	libero	libero	libero	
30	bloccato	bloccato	libero	libero	libero	libero	libero	
31	bloccato	bloccato	libero	libero	libero	libero	libero	
32	bloccato	bloccato	libero	libero	libero	libero	libero	
33	bloccato	bloccato	libero	libero	libero	libero	libero	
34	bloccato	bloccato	libero	libero	libero	libero	libero	
35	bloccato	bloccato	libero	libero	libero	libero	libero	
36	bloccato	bloccato	libero	libero	libero	libero	libero	
37	bloccato	bloccato	libero	libero	libero	libero	libero	
38	bloccato	bloccato	libero	libero	libero	libero	libero	
17	bloccato	bloccato	libero	libero	libero	libero	libero	
18	bloccato	bloccato	libero	libero	libero	libero	libero	
19	bloccato	bloccato	libero	libero	libero	libero	libero	
20	bloccato	bloccato	libero	libero	libero	libero	libero	
21	bloccato	bloccato	libero	libero	libero	libero	libero	
22	bloccato	bloccato	libero	libero	libero	libero	libero	
1	bloccato	bloccato	libero	libero	libero	libero	libero	
6	1.28048E+04	1.28048E+04	8.03803E+04	4.26688E+07	4.26688E+07	1.34426E+06		
11	1.28048E+04	1.28048E+04	8.03803E+04	4.26688E+07	4.26688E+07	1.34426E+06		

CARICHI NODI	Nome	Nodo	Direzione	Intensita`	num.=
1 -	7 : Forze Dinamiche (Autovettori)				7

CARICHI ASTE	Nome	Asta	Dir	Tip	RIF	Parametro 1	Parametro 2	Parametro 3	num.=
Parametro 4									4
8	PROPRIO	2	Z	FD glo		-2.500			
9	NEVE	2	Z	FD glo		-12.000			

PESI PROPRI ASTE	Cond.	Nome Carichi	Aste
1	10-11		1-2

CARICHI DI LINEA	Nome	numero	coordinata	Intensita`	num.=
		inizio	fine	Cond. Direz. inizio fine	Descrizione
					0

PESI PROPRI GUSCI	Cond.	Nome Carichi	Gusci
1	12-39		5-8, 13-36

CONDIZIONI DI CARICO	Nome	num.=
1	Peso proprio _____ N. carichi: 31 Lista carichi: 8, 10-39	8

2	Permanente_____	N. carichi:	0
	Lista carichi:		
3	A:Var_abitazione___	N. carichi:	0
	Lista carichi:		
4	Neve_(<1000m_slm)___	N. carichi:	1
	Lista carichi: 9		
5	Autovett_001_(Y)	N. carichi:	1
	Lista carichi: 1		
6	Autovett_002_(X)	N. carichi:	2
	Lista carichi: 2-3		
7	Autovett_003_(X)	N. carichi:	2
	Lista carichi: 4-5		
8	Autovett_003_(Y)	N. carichi:	2
	Lista carichi: 6-7		

RISULTANTI DEI CARICHI (punto di applicazione nell'origine degli assi):

cond.	FX	FY	FZ	MX	MY
MZ					
1	0.000000E+00	0.000000E+00	-1.507425E+04	0.000000E+00	-2.927737E+05
2	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
3	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
4	0.000000E+00	0.000000E+00	-7.080000E+03	0.000000E+00	2.088600E+06
5	0.000000E+00	3.065300E+02	0.000000E+00	-3.187912E+05	0.000000E+00
6	6.403100E+02	0.000000E+00	0.000000E+00	0.000000E+00	6.659224E+05
7	2.758000E+01	0.000000E+00	0.000000E+00	0.000000E+00	2.868320E+04
8	0.000000E+00	2.300300E+02	0.000000E+00	-2.392312E+05	0.000000E+00
9.449440E+04					

DATI ANALISI SISMICA:

ANALISI DINAMICA

lavoro : \PISU__

PARAMETRI DI CALCOLO:

Calcolo secondo Ordinanza P.C.M. 3274
 Modello a pilastri flessibili
 Assi di vibrazione: X Y
 Combinazione quadratica completa (CQC)

Accelerazione di picco al suolo = 1.00g

coefficiente di fondazione = 1.000
 coefficiente di struttura = 1.000

DATI PROGETTO

Edificio sito in località TORINO (long. 7.674 lat. 45.070400)

Categoria del suolo di fondazione = C

Coeff. di amplificazione stratigrafica Ss = 1.500

Coeff. di amplificazione topografica ST = 1.000

S = 1.500

Vita nominale dell'opera VN = 100 anni

Coefficiente d'uso CU = 2.0

Periodo di riferimento VR = 200.0

PVR : probabilità di superamento in VR = 10 %

Tempo di ritorno = 1898

Coeff. di smorzamento viscoso = 5.0

Valori risultanti per :

ag 0.773 [g/10]
 Fo 2.873
 TC* 0.290

Edificio con struttura in acciaio :
 Fattore di struttura q = 1.600

q = q0 * KR dove :
 q0 = 2.00 2.00 * -1.0
 KR = 0.8 (Edifici non regolari in altezza)

Rapporto spettro di esercizio / spettro di progetto = 0.741

CONDIZIONI DI RIFERIMENTO	COEFFICIENTE	PESO RISULTANTE [daN]
1.	1.000	15074.3
2.	1.000	0.0
3.	0.300	0.0

*** TABELLA AUTOVETTORI ***

n	PERIODO [sec]	MASSA ATTIVATA			COEFFICIENTI DI CORRELAZIONE						
		%X	%Y	%Z	n+1	n+2	n+3	n+4	n+5	n+6	
n+7											
1	0.597002	0.000	62.187	0.000	0.038	0.000					
2	0.365175	100.000	0.000	0.000	0.000						
3	0.000000	7.734	64.504	0.000							
MASSA TOTALE		107.734	126.691	0.000							

DESCRIZIONE CASI DI CARICO:

NOME INSERITI	DESCRIZIONE	VERIFICA	TIPO	CONDIZ. INSERITE			CASI	
				Num.	Coeff.	Segno	Num.	
1	SLU SENZA SISMA	S.L.U.	somma	1	1.300	+		
				2	1.500	+		
				3	1.500	+		
				4	1.500	+		
2	SISMAX SLU	nessuna	somma	6	1.000	quadr.		
				7	1.000	quadr.		
3	SISMAY SLU	nessuna	somma	5	1.000	quadr.		
				8	1.000	quadr.		
4	SLU con SISMAX	S.L.U.	somma	1	1.000	+	2	
				2	1.000	+		
				3	0.300	+		
5	SLU con SISMAY	S.L.U.	somma	1	1.000	+	3	
				2	1.000	+		
				3	0.300	+		

6	SLD con SISMAX	S.L.Danno	somma	1	1.000	+	2
0.741				2	1.000	+	
				3	0.300	+	
7	SLD con SISMAX	S.L.Danno	somma	1	1.000	+	3
0.741				2	1.000	+	
				3	0.300	+	
8	SLUGeo	SLU_GEO	somma	1	1.000	+	
				2	1.300	+	
				3	1.300	+	
				4	1.300	+	
9	Rara	Rara	somma	1	1.000	+	
				2	1.000	+	
				3	1.000	+	
				4	1.000	+	
10	Frequente	Freq.	somma	1	1.000	+	
				2	1.000	+	
				3	0.500	+	
				4	0.200	+	
11	Quasi Perm	QuasiPerm.	somma	1	1.000	+	
				2	1.000	+	
				3	0.300	+	

SOLLECITAZIONI ASTE:

SOLLECITAZIONI ASTE

CONDIZIONE : 1 Peso_proprio_____

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]

MZZ,MY,TORS [daNcm]

Asta	1	nod	1	2		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-3824.3	0.0	0.0	0.0	0.0	-685976.3
130.	-3636.9	0.0	0.0	0.0	0.0	-685976.3
260.	-3449.5	0.0	0.0	0.0	0.0	-685976.3
390.	-3262.2	0.0	0.0	0.0	0.0	-685976.3
520.	-3074.8	0.0	0.0	0.0	0.0	-685976.3
650.	-2887.4	0.0	0.0	0.0	0.0	-685976.3
780.	-2700.1	0.0	0.0	0.0	0.0	-685976.3
910.	-2512.7	0.0	0.0	0.0	0.0	-685976.3
1040.	-2325.3	0.0	0.0	0.0	0.0	-685976.3
Asta	2	nod	2	3		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	0.0	2325.3	0.0	0.0	0.0	-685976.3
74.	0.0	2034.7	0.0	0.0	0.0	-525200.6
148.	0.0	1744.0	0.0	0.0	0.0	-385861.7
221.	0.0	1453.3	0.0	0.0	0.0	-267959.5
295.	0.0	1162.7	0.0	0.0	0.0	-171494.1

369.	0.0	872.0	0.0	0.0	0.0	-96465.4
443.	0.0	581.3	0.0	0.0	0.0	-42873.5
516.	0.0	290.7	0.0	0.0	0.0	-10718.4
590.	0.0	0.0	0.0	0.0	0.0	0.0

SOLLECITAZIONI ASTE

CONDIZIONE : 4 Neve_(<1000m_slm)___

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [dan]
MZZ,MY,TORS [daNcm]

Asta	1	nodi			1	2		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ		
0.	-7080.0	0.0	0.0	0.0	0.0	-2088600.0		
130.	-7080.0	0.0	0.0	0.0	0.0	-2088600.0		
260.	-7080.0	0.0	0.0	0.0	0.0	-2088600.0		
390.	-7080.0	0.0	0.0	0.0	0.0	-2088600.0		
520.	-7080.0	0.0	0.0	0.0	0.0	-2088600.0		
650.	-7080.0	0.0	0.0	0.0	0.0	-2088600.0		
780.	-7080.0	0.0	0.0	0.0	0.0	-2088600.0		
910.	-7080.0	0.0	0.0	0.0	0.0	-2088600.0		
1040.	-7080.0	0.0	0.0	0.0	0.0	-2088600.0		

Asta	2	nodi			2	3		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ		
0.	0.0	7080.0	0.0	0.0	0.0	-2088600.0		
74.	0.0	6195.0	0.0	0.0	0.0	-1599084.4		
148.	0.0	5310.0	0.0	0.0	0.0	-1174837.5		
221.	0.0	4425.0	0.0	0.0	0.0	-815859.4		
295.	0.0	3540.0	0.0	0.0	0.0	-522150.0		
369.	0.0	2655.0	0.0	0.0	0.0	-293709.4		
443.	0.0	1770.0	0.0	0.0	0.0	-130537.5		
516.	0.0	885.0	0.0	0.0	0.0	-32634.4		
590.	0.0	0.0	0.0	0.0	0.0	0.0		

SOLLECITAZIONI ASTE

CONDIZIONE : 5 Autovett_001_(Y)

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [dan]
MZZ,MY,TORS [daNcm]

Asta	1	nodi			1	2		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ		
0.	0.0	0.0	306.5	0.0	318791.2	0.0		
130.	0.0	0.0	306.5	0.0	278942.3	0.0		
260.	0.0	0.0	306.5	0.0	239093.4	0.0		
390.	0.0	0.0	306.5	0.0	199244.5	0.0		
520.	0.0	0.0	306.5	0.0	159395.6	0.0		
650.	0.0	0.0	306.5	0.0	119546.7	0.0		
780.	0.0	0.0	306.5	0.0	79697.8	0.0		
910.	0.0	0.0	306.5	0.0	39848.9	0.0		
1040.	0.0	0.0	306.5	0.0	0.0	0.0		

Asta	2	nodi			2	3		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ		
0.	0.0	0.0	0.0	0.0	0.0	0.0		
74.	0.0	0.0	0.0	0.0	0.0	0.0		
148.	0.0	0.0	0.0	0.0	0.0	0.0		
221.	0.0	0.0	0.0	0.0	0.0	0.0		
295.	0.0	0.0	0.0	0.0	0.0	0.0		
369.	0.0	0.0	0.0	0.0	0.0	0.0		
443.	0.0	0.0	0.0	0.0	0.0	0.0		
516.	0.0	0.0	0.0	0.0	0.0	0.0		
590.	0.0	0.0	0.0	0.0	0.0	0.0		

SOLLECITAZIONI ASTE

CONDIZIONE : 6 Autovett_002_(X)

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [dan]
MZZ,MY,TORS [daNcm]

Asta	1	nodi			1	2		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ		

0.	0.0	640.3	0.0	0.0	0.0	-665922.4
130.	0.0	640.3	0.0	0.0	0.0	-582682.1
260.	0.0	640.3	0.0	0.0	0.0	-499441.8
390.	0.0	640.3	0.0	0.0	0.0	-416201.5
520.	0.0	640.3	0.0	0.0	0.0	-332961.2
650.	0.0	640.3	0.0	0.0	0.0	-249720.9
780.	0.0	640.3	0.0	0.0	0.0	-166480.6
910.	0.0	640.3	0.0	0.0	0.0	-83240.3
1040.	0.0	640.3	0.0	0.0	0.0	0.0

Asta	2	nodì	2	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	242.1	0.0	0.0	0.0	0.0	0.0
74.	242.1	0.0	0.0	0.0	0.0	0.0
148.	242.1	0.0	0.0	0.0	0.0	0.0
221.	242.1	0.0	0.0	0.0	0.0	0.0
295.	242.1	0.0	0.0	0.0	0.0	0.0
369.	242.1	0.0	0.0	0.0	0.0	0.0
443.	242.1	0.0	0.0	0.0	0.0	0.0
516.	242.1	0.0	0.0	0.0	0.0	0.0
590.	242.1	0.0	0.0	0.0	0.0	0.0

SOLLECITAZIONI ASTE

CONDIZIONE : 7 Autovett_003_(X)

Unità di misura: Prog e frecce [cm];NORM,TYT,TZZ [daN]
MZZ,MYT,TORS [daNcm]

Asta	1	nodì	1	2		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	27.6	0.0	0.0	0.0	-28683.2
130.	0.0	27.6	0.0	0.0	0.0	-25097.8
260.	0.0	27.6	0.0	0.0	0.0	-21512.4
390.	0.0	27.6	0.0	0.0	0.0	-17927.0
520.	0.0	27.6	0.0	0.0	0.0	-14341.6
650.	0.0	27.6	0.0	0.0	0.0	-10756.2
780.	0.0	27.6	0.0	0.0	0.0	-7170.8
910.	0.0	27.6	0.0	0.0	0.0	-3585.4
1040.	0.0	27.6	0.0	0.0	0.0	0.0

Asta	2	nodì	2	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	10.4	0.0	0.0	0.0	0.0	0.0
74.	10.4	0.0	0.0	0.0	0.0	0.0
148.	10.4	0.0	0.0	0.0	0.0	0.0
221.	10.4	0.0	0.0	0.0	0.0	0.0
295.	10.4	0.0	0.0	0.0	0.0	0.0
369.	10.4	0.0	0.0	0.0	0.0	0.0
443.	10.4	0.0	0.0	0.0	0.0	0.0
516.	10.4	0.0	0.0	0.0	0.0	0.0
590.	10.4	0.0	0.0	0.0	0.0	0.0

SOLLECITAZIONI ASTE

CONDIZIONE : 8 Autovett_003_(Y)

Unità di misura: Prog e frecce [cm];NORM,TYT,TZZ [daN]
MZZ,MYT,TORS [daNcm]

Asta	1	nodì	1	2		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	0.0	230.0	0.0	239231.2	0.0
130.	0.0	0.0	230.0	0.0	209327.3	0.0
260.	0.0	0.0	230.0	0.0	179423.4	0.0
390.	0.0	0.0	230.0	0.0	149519.5	0.0
520.	0.0	0.0	230.0	0.0	119615.6	0.0
650.	0.0	0.0	230.0	0.0	89711.7	0.0
780.	0.0	0.0	230.0	0.0	59807.8	0.0
910.	0.0	0.0	230.0	0.0	29903.9	0.0
1040.	0.0	0.0	230.0	0.0	0.0	0.0

Asta	2	nodì	2	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	0.0	160.2	0.0	0.0	0.0
74.	0.0	0.0	160.2	0.0	-11811.8	0.0
148.	0.0	0.0	160.2	0.0	-23623.6	0.0
221.	0.0	0.0	160.2	0.0	-35435.4	0.0
295.	0.0	0.0	160.2	0.0	-47247.2	0.0

369.	0.0	0.0	160.2	0.0	-59059.0	0.0
443.	0.0	0.0	160.2	0.0	-70870.8	0.0
516.	0.0	0.0	160.2	0.0	-82682.6	0.0
590.	0.0	0.0	160.2	0.0	-94494.4	0.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 1 SLU SENZA SISMA COMBINAZIONE

N. 4 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____ +	1.30
2	Permanente_____ +	1.50
3	A:Var_abitazione___ +	1.50
4	Neve_(<1000m_slm)___ +	1.50

1) +1.30*c001 +1.50*c002 +1.50*c003 +1.50*c004

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]

MZZ,MY,Y,TORS [daNcm]

Asta	1	nod	1	2		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-15591.5	0.0	0.0	0.0	0.0	-4024669.2
130.	-15348.0	0.0	0.0	0.0	0.0	-4024669.2
260.	-15104.4	0.0	0.0	0.0	0.0	-4024669.2
390.	-14860.8	0.0	0.0	0.0	0.0	-4024669.2
520.	-14617.2	0.0	0.0	0.0	0.0	-4024669.2
650.	-14373.7	0.0	0.0	0.0	0.0	-4024669.2
780.	-14130.1	0.0	0.0	0.0	0.0	-4024669.2
910.	-13886.5	0.0	0.0	0.0	0.0	-4024669.2
1040.	-13642.9	0.0	0.0	0.0	0.0	-4024669.2

Asta	2	nod	2	3		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	0.0	13642.9	0.0	0.0	0.0	-4024669.2
74.	0.0	11937.6	0.0	0.0	0.0	-3081387.4
148.	0.0	10232.2	0.0	0.0	0.0	-2263876.4
221.	0.0	8526.8	0.0	0.0	0.0	-1572136.4
295.	0.0	6821.5	0.0	0.0	0.0	-1006167.3
369.	0.0	5116.1	0.0	0.0	0.0	-565969.1
443.	0.0	3410.7	0.0	0.0	0.0	-251541.8
516.	0.0	1705.4	0.0	0.0	0.0	-62885.5
590.	0.0	0.0	0.0	0.0	0.0	0.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 2 SISMAX SLU COMBINAZIONE

N. 2 CONDIZIONI ANALISI DINAMICA

6	Autovett_002_(X) **	1.00
7	Autovett_003_(X) **	1.00

+1.00*c006 ^2 +
+1.00*c007 ^2 +

Quad=(#####) ^0.5

1)+Quad
2)-Quad

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]

MZZ,MY,Y,TORS [daNcm]

Asta	1	nod	1	2		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	0.0	640.9	0.0	0.0	0.0	-666539.8
	0.0	-640.9	0.0	0.0	0.0	666539.8
130.	0.0	640.9	0.0	0.0	0.0	-583222.4
	0.0	-640.9	0.0	0.0	0.0	583222.4
260.	0.0	640.9	0.0	0.0	0.0	-499904.9
	0.0	-640.9	0.0	0.0	0.0	499904.9
390.	0.0	640.9	0.0	0.0	0.0	-416587.4
	0.0	-640.9	0.0	0.0	0.0	416587.4
520.	0.0	640.9	0.0	0.0	0.0	-333269.9
	0.0	-640.9	0.0	0.0	0.0	333269.9
650.	0.0	640.9	0.0	0.0	0.0	-249952.4
	0.0	-640.9	0.0	0.0	0.0	249952.4
780.	0.0	640.9	0.0	0.0	0.0	-166635.0

	0.0	-640.9	0.0	0.0	0.0	166635.0
910.	0.0	640.9	0.0	0.0	0.0	-83317.5
	0.0	-640.9	0.0	0.0	0.0	83317.5
1040.	0.0	640.9	0.0	0.0	0.0	0.0
	0.0	-640.9	0.0	0.0	0.0	0.0

Asta	2	nodi		2	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	242.3	0.0	0.0	0.0	0.0	0.0	
	-242.3	0.0	0.0	0.0	0.0	0.0	
74.	242.3	0.0	0.0	0.0	0.0	0.0	
	-242.3	0.0	0.0	0.0	0.0	0.0	
148.	242.3	0.0	0.0	0.0	0.0	0.0	
	-242.3	0.0	0.0	0.0	0.0	0.0	
221.	242.3	0.0	0.0	0.0	0.0	0.0	
	-242.3	0.0	0.0	0.0	0.0	0.0	
295.	242.3	0.0	0.0	0.0	0.0	0.0	
	-242.3	0.0	0.0	0.0	0.0	0.0	
369.	242.3	0.0	0.0	0.0	0.0	0.0	
	-242.3	0.0	0.0	0.0	0.0	0.0	
443.	242.3	0.0	0.0	0.0	0.0	0.0	
	-242.3	0.0	0.0	0.0	0.0	0.0	
516.	242.3	0.0	0.0	0.0	0.0	0.0	
	-242.3	0.0	0.0	0.0	0.0	0.0	
590.	242.3	0.0	0.0	0.0	0.0	0.0	
	-242.3	0.0	0.0	0.0	0.0	0.0	

SOLLECITAZIONI ASTE

CASO DI CARICO : 3 SISMAY SLU

COMBINAZIONE

N. 2 CONDIZIONI ANALISI DINAMICA
 5 Autovett_001_(Y) ** 1.00
 8 Autovett_003_(Y) ** 1.00

+1.00*c005 ^2 +
 +1.00*c008 ^2 +

 Quad=(#####) ^0.5

1)+Quad
 2)-Quad

Unità di misura: Prog e frecce [cm];NORM,TYT,TZZ [dan]
 MZZ,MYT,TORS [dan*cm]

Asta	1	nodi		1	2		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	0.0	0.0	383.2	0.0	398571.7	0.0	
	0.0	0.0	-383.2	0.0	-398571.7	0.0	
130.	0.0	0.0	383.2	0.0	348750.2	0.0	
	0.0	0.0	-383.2	0.0	-348750.2	0.0	
260.	0.0	0.0	383.2	0.0	298928.8	0.0	
	0.0	0.0	-383.2	0.0	-298928.8	0.0	
390.	0.0	0.0	383.2	0.0	249107.3	0.0	
	0.0	0.0	-383.2	0.0	-249107.3	0.0	
520.	0.0	0.0	383.2	0.0	199285.9	0.0	
	0.0	0.0	-383.2	0.0	-199285.9	0.0	
650.	0.0	0.0	383.2	0.0	149464.4	0.0	
	0.0	0.0	-383.2	0.0	-149464.4	0.0	
780.	0.0	0.0	383.2	0.0	99642.9	0.0	
	0.0	0.0	-383.2	0.0	-99642.9	0.0	
910.	0.0	0.0	383.2	0.0	49821.5	0.0	
	0.0	0.0	-383.2	0.0	-49821.5	0.0	
1040.	0.0	0.0	383.2	0.0	0.0	0.0	
	0.0	0.0	-383.2	0.0	0.0	0.0	

Asta	2	nodi		2	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	0.0	0.0	160.2	0.0	0.0	0.0	
	0.0	0.0	-160.2	0.0	0.0	0.0	
74.	0.0	0.0	160.2	0.0	-11811.8	0.0	
	0.0	0.0	-160.2	0.0	11811.8	0.0	
148.	0.0	0.0	160.2	0.0	-23623.6	0.0	
	0.0	0.0	-160.2	0.0	23623.6	0.0	
221.	0.0	0.0	160.2	0.0	-35435.4	0.0	
	0.0	0.0	-160.2	0.0	35435.4	0.0	
295.	0.0	0.0	160.2	0.0	-47247.2	0.0	
	0.0	0.0	-160.2	0.0	47247.2	0.0	
369.	0.0	0.0	160.2	0.0	-59059.0	0.0	
	0.0	0.0	-160.2	0.0	59059.0	0.0	
443.	0.0	0.0	160.2	0.0	-70870.8	0.0	
	0.0	0.0	-160.2	0.0	70870.8	0.0	

516.	0.0	0.0	160.2	0.0	-82682.6	0.0
	0.0	0.0	-160.2	0.0	82682.6	0.0
590.	0.0	0.0	160.2	0.0	-94494.4	0.0
	0.0	0.0	-160.2	0.0	94494.4	0.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 4 SLU con SISMAX COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____ +	1.00
2	Permanente_____ +	1.00
3	A:Var_abitazione____ +	0.30

N. 1 CASI DI CARICO
2 SISMAX SLU 1.00

1)	+1.00*c001	+1.00*c002	+0.30*c003	+1.00*c002.001
2)	+1.00*c001	+1.00*c002	+0.30*c003	+1.00*c002.002

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [daN]

MZZ,MYY,TORS [daNcm]

Asta	1	nod	1	2		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	-3824.3	640.9	0.0	0.0	0.0	-1352516.2
	-3824.3	-640.9	0.0	0.0	0.0	-19436.5
130.	-3636.9	640.9	0.0	0.0	0.0	-1269198.7
	-3636.9	-640.9	0.0	0.0	0.0	-102753.9
260.	-3449.5	640.9	0.0	0.0	0.0	-1185881.2
	-3449.5	-640.9	0.0	0.0	0.0	-186071.4
390.	-3262.2	640.9	0.0	0.0	0.0	-1102563.7
	-3262.2	-640.9	0.0	0.0	0.0	-269388.9
520.	-3074.8	640.9	0.0	0.0	0.0	-1019246.2
	-3074.8	-640.9	0.0	0.0	0.0	-352706.4
650.	-2887.4	640.9	0.0	0.0	0.0	-935928.7
	-2887.4	-640.9	0.0	0.0	0.0	-436023.9
780.	-2700.1	640.9	0.0	0.0	0.0	-852611.3
	-2700.1	-640.9	0.0	0.0	0.0	-519341.3
910.	-2512.7	640.9	0.0	0.0	0.0	-769293.8
	-2512.7	-640.9	0.0	0.0	0.0	-602658.8
1040.	-2325.3	640.9	0.0	0.0	0.0	-685976.3
	-2325.3	-640.9	0.0	0.0	0.0	-685976.3

Asta	2	nod	2	3		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	242.3	2325.3	0.0	0.0	0.0	-685976.3
	-242.3	2325.3	0.0	0.0	0.0	-685976.3
74.	242.3	2034.7	0.0	0.0	0.0	-525200.6
	-242.3	2034.7	0.0	0.0	0.0	-525200.6
148.	242.3	1744.0	0.0	0.0	0.0	-385861.7
	-242.3	1744.0	0.0	0.0	0.0	-385861.7
221.	242.3	1453.3	0.0	0.0	0.0	-267959.5
	-242.3	1453.3	0.0	0.0	0.0	-267959.5
295.	242.3	1162.7	0.0	0.0	0.0	-171494.1
	-242.3	1162.7	0.0	0.0	0.0	-171494.1
369.	242.3	872.0	0.0	0.0	0.0	-96465.4
	-242.3	872.0	0.0	0.0	0.0	-96465.4
443.	242.3	581.3	0.0	0.0	0.0	-42873.5
	-242.3	581.3	0.0	0.0	0.0	-42873.5
516.	242.3	290.7	0.0	0.0	0.0	-10718.4
	-242.3	290.7	0.0	0.0	0.0	-10718.4
590.	242.3	0.0	0.0	0.0	0.0	0.0
	-242.3	0.0	0.0	0.0	0.0	0.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 5 SLU con SISMAX COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____ +	1.00
2	Permanente_____ +	1.00
3	A:Var_abitazione____ +	0.30

N. 1 CASI DI CARICO
3 SISMAX SLU 1.00

1)	+1.00*c001	+1.00*c002	+0.30*c003	+1.00*c003.001
2)	+1.00*c001	+1.00*c002	+0.30*c003	+1.00*c003.002

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [daN]
MZZ,MY,TORS [daNcm]

Asta	1	nodi		1	2		
PROGR.	NORM	TTY	TZZ	TORS	MY	MZZ	
0.	-3824.3	0.0	383.2	0.0	398571.7	-685976.3	
	-3824.3	0.0	-383.2	0.0	-398571.7	-685976.3	
130.	-3636.9	0.0	383.2	0.0	348750.2	-685976.3	
	-3636.9	0.0	-383.2	0.0	-348750.2	-685976.3	
260.	-3449.5	0.0	383.2	0.0	298928.8	-685976.3	
	-3449.5	0.0	-383.2	0.0	-298928.8	-685976.3	
390.	-3262.2	0.0	383.2	0.0	249107.3	-685976.3	
	-3262.2	0.0	-383.2	0.0	-249107.3	-685976.3	
520.	-3074.8	0.0	383.2	0.0	199285.9	-685976.3	
	-3074.8	0.0	-383.2	0.0	-199285.9	-685976.3	
650.	-2887.4	0.0	383.2	0.0	149464.4	-685976.3	
	-2887.4	0.0	-383.2	0.0	-149464.4	-685976.3	
780.	-2700.1	0.0	383.2	0.0	99642.9	-685976.3	
	-2700.1	0.0	-383.2	0.0	-99642.9	-685976.3	
910.	-2512.7	0.0	383.2	0.0	49821.5	-685976.3	
	-2512.7	0.0	-383.2	0.0	-49821.5	-685976.3	
1040.	-2325.3	0.0	383.2	0.0	0.0	-685976.3	
	-2325.3	0.0	-383.2	0.0	0.0	-685976.3	

Asta	2	nodi		2	3		
PROGR.	NORM	TTY	TZZ	TORS	MY	MZZ	
0.	0.0	2325.3	160.2	0.0	0.0	-685976.3	
	0.0	2325.3	-160.2	0.0	0.0	-685976.3	
74.	0.0	2034.7	160.2	0.0	-11811.8	-525200.6	
	0.0	2034.7	-160.2	0.0	11811.8	-525200.6	
148.	0.0	1744.0	160.2	0.0	-23623.6	-385861.7	
	0.0	1744.0	-160.2	0.0	23623.6	-385861.7	
221.	0.0	1453.3	160.2	0.0	-35435.4	-267959.5	
	0.0	1453.3	-160.2	0.0	35435.4	-267959.5	
295.	0.0	1162.7	160.2	0.0	-47247.2	-171494.1	
	0.0	1162.7	-160.2	0.0	47247.2	-171494.1	
369.	0.0	872.0	160.2	0.0	-59059.0	-96465.4	
	0.0	872.0	-160.2	0.0	59059.0	-96465.4	
443.	0.0	581.3	160.2	0.0	-70870.8	-42873.5	
	0.0	581.3	-160.2	0.0	70870.8	-42873.5	
516.	0.0	290.7	160.2	0.0	-82682.6	-10718.4	
	0.0	290.7	-160.2	0.0	82682.6	-10718.4	
590.	0.0	0.0	160.2	0.0	-94494.4	0.0	
	0.0	0.0	-160.2	0.0	94494.4	0.0	

SOLLECITAZIONI ASTE

CASO DI CARICO : 6 SLD con SISMAX COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____ +	1.00
2	Permanente_____ +	1.00
3	A:Var_abitazione___ +	0.30

N. 1 CASI DI CARICO

2	SISMAX SLU	0.74
---	------------	------

1)	+1.00*c001	+1.00*c002	+0.30*c003	+0.74*c002.001
2)	+1.00*c001	+1.00*c002	+0.30*c003	+0.74*c002.002

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [daN]
MZZ,MY,TORS [daNcm]

Asta	1	nodi		1	2		
PROGR.	NORM	TTY	TZZ	TORS	MY	MZZ	
0.	-3824.3	474.9	0.0	0.0	0.0	-1179882.3	
	-3824.3	-474.9	0.0	0.0	0.0	-192070.3	
130.	-3636.9	474.9	0.0	0.0	0.0	-1118144.1	
	-3636.9	-474.9	0.0	0.0	0.0	-253808.5	
260.	-3449.5	474.9	0.0	0.0	0.0	-1056405.8	
	-3449.5	-474.9	0.0	0.0	0.0	-315546.8	
390.	-3262.2	474.9	0.0	0.0	0.0	-994667.6	
	-3262.2	-474.9	0.0	0.0	0.0	-377285.0	
520.	-3074.8	474.9	0.0	0.0	0.0	-932929.3	
	-3074.8	-474.9	0.0	0.0	0.0	-439023.3	
650.	-2887.4	474.9	0.0	0.0	0.0	-871191.1	
	-2887.4	-474.9	0.0	0.0	0.0	-500761.5	
780.	-2700.1	474.9	0.0	0.0	0.0	-809452.8	
	-2700.1	-474.9	0.0	0.0	0.0	-562499.8	
910.	-2512.7	474.9	0.0	0.0	0.0	-747714.6	
	-2512.7	-474.9	0.0	0.0	0.0	-624238.0	
1040.	-2325.3	474.9	0.0	0.0	0.0	-685976.3	
	-2325.3	-474.9	0.0	0.0	0.0	-685976.3	

Asta	2	nodi		2	3		
PROGR.	NORM	TTY	TZZ	TORS	MY	MZZ	

0.	179.6	2325.3	0.0	0.0	0.0	-685976.3
	-179.6	2325.3	0.0	0.0	0.0	-685976.3
74.	179.6	2034.7	0.0	0.0	0.0	-525200.6
	-179.6	2034.7	0.0	0.0	0.0	-525200.6
148.	179.6	1744.0	0.0	0.0	0.0	-385861.7
	-179.6	1744.0	0.0	0.0	0.0	-385861.7
221.	179.6	1453.3	0.0	0.0	0.0	-267959.5
	-179.6	1453.3	0.0	0.0	0.0	-267959.5
295.	179.6	1162.7	0.0	0.0	0.0	-171494.1
	-179.6	1162.7	0.0	0.0	0.0	-171494.1
369.	179.6	872.0	0.0	0.0	0.0	-96465.4
	-179.6	872.0	0.0	0.0	0.0	-96465.4
443.	179.6	581.3	0.0	0.0	0.0	-42873.5
	-179.6	581.3	0.0	0.0	0.0	-42873.5
516.	179.6	290.7	0.0	0.0	0.0	-10718.4
	-179.6	290.7	0.0	0.0	0.0	-10718.4
590.	179.6	0.0	0.0	0.0	0.0	0.0
	-179.6	0.0	0.0	0.0	0.0	0.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 7 SLD con SISMAY COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____ +	1.00
2	Permanente_____ +	1.00
3	A:Var_abitazione____ +	0.30
N. 1	CASI DI CARICO	
3	SISMAY SLU	0.74

1)	+1.00*c001	+1.00*c002	+0.30*c003	+0.74*c003.001
2)	+1.00*c001	+1.00*c002	+0.30*c003	+0.74*c003.002

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [daN]

MZZ,MY,Y,TORS [daNcm]

Asta	1	nod	1	2		
PROGR.	NORM	TTY	TZZ	TORS	MY	MZZ
0.	-3824.3	0.0	284.0	0.0	295341.6	-685976.3
	-3824.3	0.0	-284.0	0.0	-295341.6	-685976.3
130.	-3636.9	0.0	284.0	0.0	258423.9	-685976.3
	-3636.9	0.0	-284.0	0.0	-258423.9	-685976.3
260.	-3449.5	0.0	284.0	0.0	221506.2	-685976.3
	-3449.5	0.0	-284.0	0.0	-221506.2	-685976.3
390.	-3262.2	0.0	284.0	0.0	184588.5	-685976.3
	-3262.2	0.0	-284.0	0.0	-184588.5	-685976.3
520.	-3074.8	0.0	284.0	0.0	147670.8	-685976.3
	-3074.8	0.0	-284.0	0.0	-147670.8	-685976.3
650.	-2887.4	0.0	284.0	0.0	110753.1	-685976.3
	-2887.4	0.0	-284.0	0.0	-110753.1	-685976.3
780.	-2700.1	0.0	284.0	0.0	73835.4	-685976.3
	-2700.1	0.0	-284.0	0.0	-73835.4	-685976.3
910.	-2512.7	0.0	284.0	0.0	36917.7	-685976.3
	-2512.7	0.0	-284.0	0.0	-36917.7	-685976.3
1040.	-2325.3	0.0	284.0	0.0	0.0	-685976.3
	-2325.3	0.0	-284.0	0.0	0.0	-685976.3

Asta	2	nod	2	3		
PROGR.	NORM	TTY	TZZ	TORS	MY	MZZ
0.	0.0	2325.3	118.7	0.0	0.0	-685976.3
	0.0	2325.3	-118.7	0.0	0.0	-685976.3
74.	0.0	2034.7	118.7	0.0	-8752.5	-525200.6
	0.0	2034.7	-118.7	0.0	8752.5	-525200.6
148.	0.0	1744.0	118.7	0.0	-17505.1	-385861.7
	0.0	1744.0	-118.7	0.0	17505.1	-385861.7
221.	0.0	1453.3	118.7	0.0	-26257.6	-267959.5
	0.0	1453.3	-118.7	0.0	26257.6	-267959.5
295.	0.0	1162.7	118.7	0.0	-35010.2	-171494.1
	0.0	1162.7	-118.7	0.0	35010.2	-171494.1
369.	0.0	872.0	118.7	0.0	-43762.7	-96465.4
	0.0	872.0	-118.7	0.0	43762.7	-96465.4
443.	0.0	581.3	118.7	0.0	-52515.3	-42873.5
	0.0	581.3	-118.7	0.0	52515.3	-42873.5
516.	0.0	290.7	118.7	0.0	-61267.8	-10718.4
	0.0	290.7	-118.7	0.0	61267.8	-10718.4
590.	0.0	0.0	118.7	0.0	-70020.3	0.0
	0.0	0.0	-118.7	0.0	70020.3	0.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 8 SLUGeo COMBINAZIONE

N. 4 CONDIZIONI ANALISI STATICA

1	Peso_proprio-----	+	1.00
2	Permanente-----	+	1.30
3	A:Var_abitazione---	+	1.30
4	Neve_(<1000m_slm)---	+	1.30

1) +1.00*c001 +1.30*c002 +1.30*c003 +1.30*c004

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [daN]
MZZ,MY,TORS [daNcm]

Asta	1	nod	1	2		MY	MZ
PROGR.	NORM	TY	TZZ	TORS			
0.	-13028.3	0.0	0.0	0.0	0.0	-3401156.3	
130.	-12840.9	0.0	0.0	0.0	0.0	-3401156.3	
260.	-12653.5	0.0	0.0	0.0	0.0	-3401156.3	
390.	-12466.2	0.0	0.0	0.0	0.0	-3401156.3	
520.	-12278.8	0.0	0.0	0.0	0.0	-3401156.3	
650.	-12091.4	0.0	0.0	0.0	0.0	-3401156.3	
780.	-11904.1	0.0	0.0	0.0	0.0	-3401156.3	
910.	-11716.7	0.0	0.0	0.0	0.0	-3401156.3	
1040.	-11529.3	0.0	0.0	0.0	0.0	-3401156.3	

Asta	2	nod	2	3		MY	MZ
PROGR.	NORM	TY	TZZ	TORS			
0.	0.0	11529.3	0.0	0.0	0.0	-3401156.3	
74.	0.0	10088.2	0.0	0.0	0.0	-2604010.3	
148.	0.0	8647.0	0.0	0.0	0.0	-1913150.4	
221.	0.0	7205.8	0.0	0.0	0.0	-1328576.7	
295.	0.0	5764.7	0.0	0.0	0.0	-850289.1	
369.	0.0	4323.5	0.0	0.0	0.0	-478287.6	
443.	0.0	2882.3	0.0	0.0	0.0	-212572.3	
516.	0.0	1441.2	0.0	0.0	0.0	-53143.1	
590.	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 9 Rara COMBINAZIONE

N. 4 CONDIZIONI ANALISI STATICA

1	Peso_proprio-----	+	1.00
2	Permanente-----	+	1.00
3	A:Var_abitazione---	+	1.00
4	Neve_(<1000m_slm)---	+	1.00

1) +1.00*c001 +1.00*c002 +1.00*c003 +1.00*c004

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [daN]
MZZ,MY,TORS [daNcm]

Asta	1	nod	1	2		MY	MZ
PROGR.	NORM	TY	TZZ	TORS			
0.	-10904.3	0.0	0.0	0.0	0.0	-2774576.3	
130.	-10716.9	0.0	0.0	0.0	0.0	-2774576.3	
260.	-10529.5	0.0	0.0	0.0	0.0	-2774576.3	
390.	-10342.2	0.0	0.0	0.0	0.0	-2774576.3	
520.	-10154.8	0.0	0.0	0.0	0.0	-2774576.3	
650.	-9967.4	0.0	0.0	0.0	0.0	-2774576.3	
780.	-9780.1	0.0	0.0	0.0	0.0	-2774576.3	
910.	-9592.7	0.0	0.0	0.0	0.0	-2774576.3	
1040.	-9405.3	0.0	0.0	0.0	0.0	-2774576.3	

Asta	2	nod	2	3		MY	MZ
PROGR.	NORM	TY	TZZ	TORS			
0.	0.0	9405.3	0.0	0.0	0.0	-2774576.3	
74.	0.0	8229.7	0.0	0.0	0.0	-2124285.0	
148.	0.0	7054.0	0.0	0.0	0.0	-1560699.2	
221.	0.0	5878.3	0.0	0.0	0.0	-1083818.9	
295.	0.0	4702.7	0.0	0.0	0.0	-693644.1	
369.	0.0	3527.0	0.0	0.0	0.0	-390174.8	
443.	0.0	2351.3	0.0	0.0	0.0	-173411.0	
516.	0.0	1175.7	0.0	0.0	0.0	-43352.8	
590.	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 10 Frequente

COMBINAZIONE

N. 4 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____ +	1.00
2	Permanente_____ +	1.00
3	A:Var_abitazione___ +	0.50
4	Neve_(<1000m_slm)___ +	0.20

1) +1.00*c001 +1.00*c002 +0.50*c003 +0.20*c004

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [daN]

MZZ,MY,TORS [daNcm]

Asta	1	nod	1	2		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	-5240.3	0.0	0.0	0.0	0.0	-1103696.3
130.	-5052.9	0.0	0.0	0.0	0.0	-1103696.3
260.	-4865.5	0.0	0.0	0.0	0.0	-1103696.3
390.	-4678.2	0.0	0.0	0.0	0.0	-1103696.3
520.	-4490.8	0.0	0.0	0.0	0.0	-1103696.3
650.	-4303.4	0.0	0.0	0.0	0.0	-1103696.3
780.	-4116.1	0.0	0.0	0.0	0.0	-1103696.3
910.	-3928.7	0.0	0.0	0.0	0.0	-1103696.3
1040.	-3741.3	0.0	0.0	0.0	0.0	-1103696.3

Asta	2	nod	2	3		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	0.0	3741.3	0.0	0.0	0.0	-1103696.3
74.	0.0	3273.7	0.0	0.0	0.0	-845017.5
148.	0.0	2806.0	0.0	0.0	0.0	-620829.2
221.	0.0	2338.3	0.0	0.0	0.0	-431131.4
295.	0.0	1870.7	0.0	0.0	0.0	-275924.1
369.	0.0	1403.0	0.0	0.0	0.0	-155207.3
443.	0.0	935.3	0.0	0.0	0.0	-68981.0
516.	0.0	467.7	0.0	0.0	0.0	-17245.3
590.	0.0	0.0	0.0	0.0	0.0	0.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 11 Quasi Perm

COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____ +	1.00
2	Permanente_____ +	1.00
3	A:Var_abitazione___ +	0.30

1) +1.00*c001 +1.00*c002 +0.30*c003

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [daN]

MZZ,MY,TORS [daNcm]

Asta	1	nod	1	2		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	-3824.3	0.0	0.0	0.0	0.0	-685976.3
130.	-3636.9	0.0	0.0	0.0	0.0	-685976.3
260.	-3449.5	0.0	0.0	0.0	0.0	-685976.3
390.	-3262.2	0.0	0.0	0.0	0.0	-685976.3
520.	-3074.8	0.0	0.0	0.0	0.0	-685976.3
650.	-2887.4	0.0	0.0	0.0	0.0	-685976.3
780.	-2700.1	0.0	0.0	0.0	0.0	-685976.3
910.	-2512.7	0.0	0.0	0.0	0.0	-685976.3
1040.	-2325.3	0.0	0.0	0.0	0.0	-685976.3

Asta	2	nod	2	3		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	0.0	2325.3	0.0	0.0	0.0	-685976.3
74.	0.0	2034.7	0.0	0.0	0.0	-525200.6
148.	0.0	1744.0	0.0	0.0	0.0	-385861.7
221.	0.0	1453.3	0.0	0.0	0.0	-267959.5
295.	0.0	1162.7	0.0	0.0	0.0	-171494.1
369.	0.0	872.0	0.0	0.0	0.0	-96465.4
443.	0.0	581.3	0.0	0.0	0.0	-42873.5
516.	0.0	290.7	0.0	0.0	0.0	-10718.4
590.	0.0	0.0	0.0	0.0	0.0	0.0