

REGIONE PUGLIA
COMUNE DI AVETRANA
PROVINCIA DI TARANTO

**PROGETTO PER LA REALIZZAZIONE DI IMPIANTO PER LA
PRODUZIONE DI ENERGIA ELETTRICA DA FONTE EOLICA,
NONCHE' OPERE ED INFRASTRUTTURE CONNESSE, DI POTENZA
INSTALLATA DI 63 MW DENOMINATO "AVETRANA ENERGIA"**

OPERE DI CONNESSIONE ALLA RTN NEL COMUNE DI ERCHIE (BR)

PROGETTO DEFINITIVO

Codice STMG Terna: 201800410 - Identificativo AU Regione Puglia: A7OXWD6

Tavola :

R06g

Titolo :

**Calcoli preliminari delle strutture
Edificio Servizi - Area sbarre AT**

Cod. Identificativo elaborato :

A7OXWD6_CalcoliPrelStrutture_06g

Progetto:



Via San Lorenzo 155 - cap 72023 MESAGNE (BR)
P.IVA 02549880744 - REA BR-154453 - enerwind@pec.it



Via Milizia n.55 - 73100 LECCE (ITALY)
P.IVA 04258790759 - msc.innovativesolutions@pec.it

Dott. Ing. Fabio Calcarella
Piazza Mazzini, 64 - 73100 - Lecce (LE)
tel. +39 0832 1594953 - fabio.calcarella@gmail.com



Via V.M. Stampacchia, 48
73100 - LECCE
stcprogetti@legalmail.it



Committente:

AVETRANA ENERGIA s.r.l.

Piazza del Grano n.3 - cap 39100 BOLZANO (BZ)
P.IVA 03050420219 - REA BZ 227626 - avetrana.energia@legalmail.it

SOCIETA' DEL GRUPPO

FRI-ELGREENPOWER
THE CLEAN ENERGY COMPANY

FRI-EL GREEN POWER S.p.A.
Piazza della Rotonda, 2 - 00186 Roma (RM) - Italia
Tel. +39 06 6880 4163 - Fax. +39 06 6821 2764
Email: info@fri-el.it - P. IVA 01533770218

Indagine Specialistiche :

Data

Giugno 2020

Revisione

Prima Emissione

Redatto

FC-SM

Approvato

MT

Data: Giugno 2020

Scala : n.a.

File:

Controllato:

Formato:

A4

Ai sensi e per gli effetti degli art.9 e 99 della Legge n.633 del 22 aprile 1941 , ci riserviamo la proprietà intellettuale e materiale di questo elaborato e facciamo
espreso divieto a chiunque di renderlo noto a terzi o di riprodurlo anche in parte, senza la nostra preventiva autorizzazione scritta.

Sommario

Introduzione.....	2
Sistemi di riferimento.....	2
Rotazioni e momenti.....	2
Normativa di riferimento.....	2
Unità di misura.....	3
Geometria.....	3
Elenco vincoli nodi.....	3
Elenco nodi.....	3
Elenco materiali.....	4
Elenco sezioni aste.....	4
Elenco vincoli aste.....	5
Elenco aste.....	5
Elenco tipi elementi bidimensionali.....	6
Elenco elementi bidimensionali.....	7
Elenco tipi solai.....	8
Elenco solai.....	8
Carichi.....	8
Condizioni di carico elementari.....	9
Elenco carichi asteCondizione di carico n. 1: peso proprio Elenco peso proprio aste.....	9
Condizione di carico n. 2: strutturale solaio Carichi distribuiti.....	9
Condizione di carico n. 3: permanente solaio Carichi distribuiti.....	10
Condizione di carico n. 4: variabile solaio Carichi distribuiti.....	10
Condizione di carico n. 5: neve Carichi distribuiti.....	10
Elenco carichi elementi bidimensionaliElenco peso proprio elementi bidimensionali.....	10
Analisi dei carichi da neve.....	10
Risultati del calcolo.....	11
Parametri di calcolo.....	11
Figura numero 1: Spettro SLD.....	13
Figura numero 2: Spettro SLV.....	14
Figura numero 3: Spettro SND.....	14
Spostamenti dei nodi.....	16
Reazioni vincolari.....	20
Tensioni sul terreno.....	23
Sollecitazioni aste.....	24
Sollecitazioni muri.....	39
Sollecitazioni elementi bidimensionali.....	42
Criteri di progetto utilizzati.....	43
Travi in c.a.....	43
Murature.....	48
Solette/Platee.....	50
Verifiche e armature travi.....	52
Travata n. 101.....	53
Travata n. 102.....	54
Travata n. 103.....	55
Travata n. 104.....	55
Travata n. 105.....	55
Travata n. 106.....	56
Verifiche e armature solette/platee.....	56
Armatura platea a quota 0.00.....	57
Verifiche muratura.....	57
Tabelle riassuntive verifiche.....	57
Verifiche maschi e pareti.....	58
Maschio in muratura ordinaria n. 1.....	59
Maschio in muratura ordinaria n. 2.....	60
Maschio in muratura ordinaria n. 3.....	61
Maschio in muratura ordinaria n. 4.....	62
Maschio in muratura ordinaria n. 5.....	63
Maschio in muratura ordinaria n. 6.....	64
Maschio in muratura ordinaria n. 7.....	65
Maschio in muratura ordinaria n. 8.....	66
Maschio in muratura ordinaria n. 9.....	67
Maschio in muratura ordinaria n. 10.....	68
Maschio in muratura ordinaria n. 11.....	68
Maschio in muratura ordinaria n. 12.....	69
Parete in muratura ordinaria n. 101.....	70
Parete in muratura ordinaria n. 102.....	71
Parete in muratura ordinaria n. 103.....	72
Parete in muratura ordinaria n. 104.....	73
Parete in muratura ordinaria n. 105.....	74
Parete in muratura ordinaria n. 106.....	75
Parete in muratura ordinaria n. 107.....	76
Parete in muratura ordinaria n. 108.....	77
Parete in muratura ordinaria n. 109.....	78
Parete in muratura ordinaria n. 110.....	79
Parete in muratura ordinaria n. 111.....	80
Parete in muratura ordinaria n. 112.....	81
Sintesi.....	82

Introduzione

Sistemi di riferimento

Le coordinate, i carichi concentrati, i cedimenti, le reazioni vincolari e gli spostamenti dei NODI sono riferiti ad una terna destra cartesiana globale con l'asse Z verticale rivolto verso l'alto. I carichi in coordinate locali e le sollecitazioni delle ASTE sono riferite ad una terna destra cartesiana locale così definita:

- origine nel nodo iniziale dell'asta;
- asse X coincidente con l'asse dell'asta e con verso dal nodo iniziale al nodo finale;
- immaginando la trave a sezione rettangolare l'asse Y è parallelo alla base e l'asse Z è parallelo all'altezza.

La rotazione dell'asta comporta quindi una rotazione di tutta la terna locale.

Si può immaginare la terna locale di un'asta comunque disposta nello spazio come derivante da quella globale dopo una serie di trasformazioni:

- una rotazione intorno all'asse Z che porti l'asse X a coincidere con la proiezione dell'asse dell'asta sul piano orizzontale;
- una traslazione lungo il nuovo asse X così definito in modo da portare l'origine a coincidere con la proiezione del nodo iniziale dell'asta sul piano orizzontale;
- una traslazione lungo l'asse Z che porti l'origine a coincidere con il nodo iniziale dell'asta;
- una rotazione intorno all'asse Y così definito che porti l'asse X a coincidere con l'asse dell'asta;
- una rotazione intorno all'asse X così definito pari alla rotazione dell'asta.

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

Le sollecitazioni ed i carichi in coordinate locali negli ELEMENTI BIDIMENSIONALI e nei MURI sono riferiti ad una terna destra cartesiana locale così definita:

- origine nel primo nodo dell'elemento;
- asse X coincidente con la congiungente il primo ed il secondo nodo dell'elemento;
- asse Y definito come prodotto vettoriale fra il versore dell'asse X e il versore della congiungente il primo e il quarto nodo. Asse Z a formare con gli altri due una terna destrorsa.

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

Rotazioni e momenti

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

Normativa di riferimento

La normativa di riferimento è la seguente:

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

Relazione di calcolo

delle strutture prefabbricate in conglomerato cementizio e per le strutture costruite con sistemi industrializzati di acciaio - Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione.

- Circolare n. 65 del 10/4/1997 - Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. del 16/1/1996.

- Eurocodice 5 - Progettazione delle strutture di legno.

- DIN 1052 - Metodi di verifica per il legno.

- D.M. del 17/1/2018 - Norme tecniche per le costruzioni.

- Circolare n. 7 del 21/1/2019 - Istruzioni per l'applicazione dell'«Aggiornamento delle "Norme tecniche per le costruzioni"» di cui al decreto ministeriale 17 gennaio 2018.

- Documento Tecnico CNR-DT 200 R1/2012 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati.

- Eurocodice 3 - Progettazione delle strutture in acciaio.

Unità di misura

Le unità di misura adottate sono le seguenti:

- lunghezze : m
- forze : daN
- masse : kg
- temperature : gradi centigradi
- angoli : gradi sessadecimali o radianti

Geometria

Elenco vincoli nodi

Simbologia

Vn = Numero del vincolo nodo

Comm. = Commento

Sx = Spostamento in dir. X (L=libero, B=bloccato, E=elastico)

Sy = Spostamento in dir. Y (L=libero, B=bloccato, E=elastico)

Sz = Spostamento in dir. Z (L=libero, B=bloccato, E=elastico)

Rx = Rotazione intorno all'asse X (L=libera, B=bloccata, E=elastica)

Ry = Rotazione intorno all'asse Y (L=libera, B=bloccata, E=elastica)

Rz = Rotazione intorno all'asse Z (L=libera, B=bloccata, E=elastica)

RL = Rotazione libera

Ly = Lunghezza (dir. Y locale)

Lz = Larghezza (dir. Z locale)

Kt = Coeff. di sottofondo su suolo elastico alla Winkler

Vn	Comm.	Sx	Sy	Sz	Rx	Ry	Rz	RL	Ly <m>	Lz <m>	Kt <daN/cm<
1	Libero	L	L	L	L	L	L				
3	El. sew 110001	B	B	L	L	L	B				

Elenco nodi

Simbologia

Nodo = Numero del nodo

X = Coordinata X del nodo

Y = Coordinata Y del nodo

Z = Coordinata Z del nodo

Imp. = Numero dell'impalcato

Vn = Numero del vincolo nodo

Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn	Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn	Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn
-114	6.00	4.04	3.55	1	1	-113	6.00	3.27	3.55	1	1	-112	6.00	2.44	3.55	1	1
-110	3.10	4.04	3.55	1	1	-109	3.10	3.27	3.55	1	1	-108	3.10	2.44	3.55	1	1
-106	0.00	1.34	3.55	1	1	-105	0.00	2.44	3.55	1	1	-104	0.00	3.27	3.55	1	1
-102	10.30	4.04	3.55	1	1	-101	10.30	3.27	3.55	1	1	-100	10.30	2.44	3.55	1	1
-98	3.10	4.60	3.55	1	1	-96	10.80	5.30	-0.00	0	3	-95	10.30	5.30	-0.00	0	3
-93	7.50	5.30	-0.00	0	3	-92	6.00	5.30	-0.00	0	3	-91	5.10	5.30	-0.00	0	3
-89	3.10	5.30	-0.00	0	3	-88	2.20	5.30	-0.00	0	3	-87	1.00	5.30	0.00	0	3
-85	-0.50	5.30	-0.00	0	3	-84	10.80	4.60	-0.00	0	3	-83	10.30	4.60	0.00	0	3
-81	7.50	4.60	0.00	0	3	-80	6.00	4.60	0.00	0	3	-79	5.10	4.60	-0.00	0	3
-77	3.10	4.60	0.00	0	3	-76	2.20	4.60	0.00	0	3	-75	1.00	4.60	0.00	0	3
-73	-0.50	4.60	0.00	0	3	-72	10.80	4.04	-0.00	0	3	-71	10.30	4.04	0.00	0	3

Relazione di calcolo

-69	7.50	4.04	-	0	3	-68	6.00	4.04	-	0	3	-67	5.10	4.04	-	0	3	-66	3.90	4.04	-	0	3
-65	3.10	4.04	-	0	3	-64	2.20	4.04	-	0	3	-63	1.00	4.04	-	0	3	-62	0.00	4.04	-	0	3
-61	-0.50	4.04	0.00	0	3	-60	10.80	3.27	-	0	3	-59	10.30	3.27	0.00	0	3	-58	8.70	3.27	-	0	3
-57	7.50	3.27	-	0	3	-56	6.00	3.27	-	0	3	-55	5.10	3.27	-	0	3	-54	3.90	3.27	-	0	3
-53	3.10	3.27	-	0	3	-52	2.20	3.27	-	0	3	-51	1.00	3.27	-	0	3	-50	0.00	3.27	-	0	3
-49	-0.50	3.27	0.00	0	3	-48	10.80	2.44	-	0	3	-47	10.30	2.44	0.00	0	3	-46	8.70	2.44	-	0	3
-45	7.50	2.44	-	0	3	-44	6.00	2.44	-	0	3	-43	5.10	2.44	-	0	3	-42	3.90	2.44	-	0	3
-41	3.10	2.44	-	0	3	-40	2.20	2.44	-	0	3	-39	1.00	2.44	-	0	3	-38	0.00	2.44	-	0	3
-37	-0.50	2.44	0.00	0	3	-36	10.80	1.34	-	0	3	-35	10.30	1.34	0.00	0	3	-34	8.70	1.34	-	0	3
-33	7.50	1.34	-	0	3	-32	6.00	1.34	-	0	3	-31	5.10	1.34	-	0	3	-30	3.90	1.34	-	0	3
-29	3.10	1.34	-	0	3	-28	2.20	1.34	-	0	3	-27	1.00	1.34	-	0	3	-26	0.00	1.34	-	0	3
-25	-0.50	1.34	0.00	0	3	-24	10.80	0.00	-	0	3	-23	10.30	0.00	0.00	0	3	-22	8.70	0.00	0.00	0	3
-21	7.50	0.00	0.00	0	3	-20	6.00	0.00	0.00	0	3	-19	5.10	0.00	-	0	3	-18	3.90	0.00	0.00	0	3
-17	3.10	0.00	0.00	0	3	-16	2.20	0.00	0.00	0	3	-15	1.00	0.00	0.00	0	3	-14	0.00	0.00	0.00	0	3
-13	-0.50	0.00	0.00	0	3	-12	10.80	-0.70	0.00	0	3	-11	10.30	-0.70	0.00	0	3	-10	8.70	-0.70	0.00	0	3
-9	7.50	-0.70	0.00	0	3	-8	6.00	-0.70	0.00	0	3	-7	5.10	-0.70	0.00	0	3	-6	3.90	-0.70	0.00	0	3
-5	3.10	-0.70	0.00	0	3	-4	2.20	-0.70	0.00	0	3	-3	1.00	-0.70	0.00	0	3	-2	0.00	-0.70	0.00	0	3
-1	-0.50	-0.70	0.00	0	3	2	0.00	4.60	3.55	1	1	3	0.00	0.00	3.55	1	1	4	1.00	4.60	3.55	1	1
5	3.90	4.60	3.55	1	1	6	2.20	4.60	3.55	1	1	7	6.00	4.60	3.55	1	1	8	5.10	4.60	3.55	1	1
9	7.50	4.60	3.55	1	1	10	10.30	4.60	3.55	1	1	11	8.70	4.60	3.55	1	1	12	1.00	0.00	3.55	1	1
13	3.10	0.00	3.55	1	1	14	2.20	0.00	3.55	1	1	15	3.90	0.00	3.55	1	1	16	6.00	0.00	3.55	1	1
17	5.10	0.00	3.55	1	1	18	7.50	0.00	3.55	1	1	19	10.30	0.00	3.55	1	1	20	8.70	0.00	3.55	1	1

Elenco materiali

Simbologia

Mat. = Numero del materiale

Comm. = Commento

P = Peso specifico

E = Modulo elastico

G = Modulo elastico tangenziale

v = Coeff. di Poisson

α = Coeff. di dilatazione termica

Mat.	Comm.	P <daN/mc>	E <daN/cm ² >	G <daN/cm ² >	v	α
1	Calcestruzzo	2500	300000.00	130000.00	0.1	1.000000E-05

Elenco sezioni aste

Simbologia

Sez. = Numero della sezione

Comm. = Commento

Tipo = Tipologia

2C = Doppia C lato labbri

2Cdx = Doppia C lato costola

2I = Doppia I

2L = Doppia L lato labbri

2Ldx = Doppia L lato costole

C = Sezione a C

Cdx = C destra

Cir. = Circolare

Cir.c = Circolare cava

I = Sezione a I

L = Sezione a L

Ldx = L destra

Om. = Omega

Pg = Pi greco

Pr = Poligono regolare

Prc = Poligono regolare cavo

Pc = Per coordinate

Ia = Inerzie assegnate

R = Rettangolare

Rc = Rettangolare cava

T = Sezione a T

U = Sezione a U

Ur = U rovescia

Relazione di calcolo

	V = Sezione a V
	Vr = V rovescia
	Z = Sezione a Z
	Zdx = Z destra
	Ts = T stondata
	Ls = L stondata
	Cs = C stondata
	Is = I stondata
	Dis. = Disegnata
Mem.	=Membratura
	G = Generica
	T = Trave
	P = Pilastro
Ver.	=Verifica prevista
	N = Nessuna
	C = Cemento armato
	A = Acciaio
	L = Legno
B	=Base
H	=Altezza
Ma	=Numero del materiale
C	=Numero del criterio di progetto
Crit. C.I.	=Criterio di progetto collegamento iniziale
Crit. C.F.	=Criterio di progetto collegamento finale

Sez.	Comm.	Tipo	Mem.	Ver.	B <cm>	H <cm>	Ma	C	Crit. C.I.	Crit. C.F.
2	tr_30x25	R	T	C	30.00	25.00	1	1		

Elenco vincoli aste

Simbologia

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

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

Elenco aste

Simbologia

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

Asta	N1	N2	Sez.	Va	Par.	Rot. <grad>	FF	Dy1 <cm>	Dy2 <cm>	Dz1 <cm>	Dz2 <cm>	Kt <daN/cmc>
0	-14	-15		1		0.00	11	0.00	0.00	0.00	0.00	
0	-14	-26		1		0.00	33	0.00	0.00	0.00	0.00	
0	-26	-38		1		0.00	33	0.00	0.00	0.00	0.00	
0	-16	-17		1		0.00	11	0.00	0.00	0.00	0.00	

Relazione di calcolo

0	-38	-50		1		0.00	33	0.00	0.00	0.00	0.00	
0	-17	-18		1		0.00	11	0.00	0.00	0.00	0.00	
0	-50	-62		1		0.00	33	0.00	0.00	0.00	0.00	
0	-17	-29		1		0.00	22	0.00	0.00	0.00	0.00	
0	-62	-74		1		0.00	33	0.00	0.00	0.00	0.00	
0	-29	-41		1		0.00	22	0.00	0.00	0.00	0.00	
0	-74	-75		1		0.00	33	0.00	0.00	0.00	0.00	
0	-19	-20		1		0.00	11	0.00	0.00	0.00	0.00	
0	-41	-53		1		0.00	22	0.00	0.00	0.00	0.00	
0	-20	-32		1		0.00	22	0.00	0.00	0.00	0.00	
0	-20	-21		1		0.00	11	0.00	0.00	0.00	0.00	
0	-53	-65		1		0.00	22	0.00	0.00	0.00	0.00	
0	-76	-77		1		0.00	33	0.00	0.00	0.00	0.00	
0	-65	-77		1		0.00	22	0.00	0.00	0.00	0.00	
0	-32	-44		1		0.00	22	0.00	0.00	0.00	0.00	
0	-77	-78		1		0.00	33	0.00	0.00	0.00	0.00	
0	-44	-56		1		0.00	22	0.00	0.00	0.00	0.00	
0	-22	-23		1		0.00	11	0.00	0.00	0.00	0.00	
0	-56	-68		1		0.00	22	0.00	0.00	0.00	0.00	
0	-79	-80		1		0.00	33	0.00	0.00	0.00	0.00	
0	-68	-80		1		0.00	22	0.00	0.00	0.00	0.00	
0	-23	-35		1		0.00	11	0.00	0.00	0.00	0.00	
0	-80	-81		1		0.00	33	0.00	0.00	0.00	0.00	
0	-35	-47		1		0.00	11	0.00	0.00	0.00	0.00	
0	-47	-59		1		0.00	11	0.00	0.00	0.00	0.00	
0	-59	-71		1		0.00	11	0.00	0.00	0.00	0.00	
0	-82	-83		1		0.00	33	0.00	0.00	0.00	0.00	
0	-71	-83		1		0.00	11	0.00	0.00	0.00	0.00	
101	3	12	2	1		0.00	11	0.00	0.00	0.00	0.00	
101	12	14	2	1		0.00	11	0.00	0.00	0.00	0.00	
101	14	13	2	1		0.00	11	0.00	0.00	0.00	0.00	
101	13	15	2	1		0.00	11	0.00	0.00	0.00	0.00	
101	15	17	2	1		0.00	11	0.00	0.00	0.00	0.00	
101	17	16	2	1		0.00	11	0.00	0.00	0.00	0.00	
101	16	18	2	1		0.00	11	0.00	0.00	0.00	0.00	
101	18	20	2	1		0.00	11	0.00	0.00	0.00	0.00	
101	20	19	2	1		0.00	11	0.00	0.00	0.00	0.00	
102	2	4	2	1		0.00	33	0.00	0.00	0.00	0.00	
102	4	6	2	1		0.00	33	0.00	0.00	0.00	0.00	
102	6	-98	2	1		0.00	33	0.00	0.00	0.00	0.00	
102	-98	5	2	1		0.00	33	0.00	0.00	0.00	0.00	
102	5	8	2	1		0.00	33	0.00	0.00	0.00	0.00	
102	8	7	2	1		0.00	33	0.00	0.00	0.00	0.00	
102	7	9	2	1		0.00	33	0.00	0.00	0.00	0.00	
102	9	11	2	1		0.00	33	0.00	0.00	0.00	0.00	
102	11	10	2	1		0.00	33	0.00	0.00	0.00	0.00	
103	3	-106	2	1		0.00	33	0.00	0.00	0.00	0.00	
103	-106	-105	2	1		0.00	33	0.00	0.00	0.00	0.00	
103	-105	-104	2	1		0.00	33	0.00	0.00	0.00	0.00	
103	-104	-103	2	1		0.00	33	0.00	0.00	0.00	0.00	
103	-103	2	2	1		0.00	33	0.00	0.00	0.00	0.00	
104	13	-107	2	1		0.00	22	0.00	0.00	0.00	0.00	
104	-107	-108	2	1		0.00	22	0.00	0.00	0.00	0.00	
104	-108	-109	2	1		0.00	22	0.00	0.00	0.00	0.00	
104	-109	-110	2	1		0.00	22	0.00	0.00	0.00	0.00	
104	-110	-98	2	1		0.00	22	0.00	0.00	0.00	0.00	
105	16	-111	2	1		0.00	22	0.00	0.00	0.00	0.00	
105	-111	-112	2	1		0.00	22	0.00	0.00	0.00	0.00	
105	-112	-113	2	1		0.00	22	0.00	0.00	0.00	0.00	
105	-113	-114	2	1		0.00	22	0.00	0.00	0.00	0.00	
105	-114	7	2	1		0.00	22	0.00	0.00	0.00	0.00	
106	19	-99	2	1		0.00	11	0.00	0.00	0.00	0.00	
106	-99	-100	2	1		0.00	11	0.00	0.00	0.00	0.00	
106	-100	-101	2	1		0.00	11	0.00	0.00	0.00	0.00	
106	-101	-102	2	1		0.00	11	0.00	0.00	0.00	0.00	
106	-102	10	2	1		0.00	11	0.00	0.00	0.00	0.00	

Elenco tipi elementi bidimensionali

Simbologia

Tb	=Numero del tipo muro/elemento bidimensionale
Comm.	=Commento
Tipo	=Tipologia
	F = Membranale e Flessionale
	M = Membranale
	W-RC = Winkler resistente solo a compressione
	W-RTC = Winkler resistente a trazione e a compressione
Uso	=Utilizzo
	G = Generico
	P = Parete

Relazione di calcolo

S = Soletta/Platea
 N = Nucleo
 M = Muratura ordinaria
 L = Pilastro
 MA = Muratura armata
 X = Pannello X-LAM
 Spess. = Spessore
 Kt = Coeff. di sottofondo su suolo elastico alla Winkler
 DP = Drucker-Prager
 Ang. att. = Angolo di attrito
 Coes. = Coesione
 Crit. = Numero del criterio di progetto
 Mat. = Numero del materiale

Tb	Comm.	Tipo	Uso	Spess. <cm>	Kt <daN/cm²>	DP	Ang. att. <grad>	Coes. <daN/mq>	Crit.	Mat.
2	platea_S35	W-RTC	S	35.00	f(strat.)	N	0.00	0.00	1	
4	m_30	F	M	30.00		N	0.00	0.00	4	

Elenco elementi bidimensionali

Simbologia

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

Bid.	Tb	FF	Dy1 <cm>	Dy2 <cm>	Kt <daN/cm²>	NN
114	4	22	0.00	0.00		-32 -44 -112 -111
114	4	22	0.00	0.00		-56 -68 -114 -113
114	4	22	0.00	0.00		-20 -32 -111 16
115	4	22	0.00	0.00		-41 -53 -109 -108
115	4	22	0.00	0.00		-53 -65 -110 -109
116	4	33	0.00	0.00		-50 -62 -103 -104
116	4	33	0.00	0.00		-26 -38 -105 -106
116	4	33	0.00	0.00		-38 -50 -104 -105
117	4	11	0.00	0.00		-47 -59 -101 -100
117	4	11	0.00	0.00		-35 -47 -100 -99
118	4	33	0.00	0.00		-76 -77 -98 6
119	4	11	0.00	0.00		-22 -23 19 20
120	4	11	0.00	0.00		-19 -20 16 17
121	4	11	0.00	0.00		-16 -17 13 14
123	4	33	0.00	0.00		-82 -83 10 11
124	4	33	0.00	0.00		-80 -81 9 7
402	2	11	0.00	0.00	146.17	-63 -75 -74 -62
402	2	11	0.00	0.00	146.17	-15 -27 -26 -14
402	2	11	0.00	0.00	146.17	-41 -53 -52 -40
402	2	11	0.00	0.00	146.17	-27 -39 -38 -26
402	2	11	0.00	0.00	146.17	-16 -28 -27 -15
402	2	11	0.00	0.00	146.17	-28 -40 -39 -27
402	2	11	0.00	0.00	146.17	-14 -26 -25 -13
402	2	11	0.00	0.00	146.17	-29 -41 -40 -28
402	2	11	0.00	0.00	146.17	-39 -51 -50 -38
402	2	11	0.00	0.00	146.17	-12 -24 -23 -11
402	2	11	0.00	0.00	146.17	-36 -48 -47 -35
402	2	11	0.00	0.00	146.17	-60 -72 -71 -59
402	2	11	0.00	0.00	146.17	-32 -44 -43 -31
402	2	11	0.00	0.00	146.17	-56 -68 -67 -55
402	2	11	0.00	0.00	146.17	-80 -92 -91 -79
402	2	11	0.00	0.00	146.17	-20 -32 -31 -19
402	2	11	0.00	0.00	146.17	-11 -23 -22 -10
402	2	11	0.00	0.00	146.17	-83 -95 -94 -82
402	2	11	0.00	0.00	146.17	-47 -59 -58 -46
402	2	11	0.00	0.00	146.17	-71 -83 -82 -70
402	2	11	0.00	0.00	146.17	-81 -93 -92 -80
402	2	11	0.00	0.00	146.17	-9 -21 -20 -8
402	2	11	0.00	0.00	146.17	-33 -45 -44 -32
402	2	11	0.00	0.00	146.17	-45 -57 -56 -44
402	2	11	0.00	0.00	146.17	-10 -22 -21 -9
402	2	11	0.00	0.00	146.17	-22 -34 -33 -21
402	2	11	0.00	0.00	146.17	-46 -58 -57 -45
402	2	11	0.00	0.00	146.17	-79 -91 -90 -78
402	2	11	0.00	0.00	146.17	-67 -79 -78 -66
402	2	11	0.00	0.00	146.17	-31 -43 -42 -30
402	2	11	0.00	0.00	146.17	-55 -67 -66 -54
402	2	11	0.00	0.00	146.17	-6 -18 -17 -5
114	4	22	0.00	0.00		-68 -80 7 -114
114	4	22	0.00	0.00		-44 -56 -113 -112
115	4	22	0.00	0.00		-29 -41 -108 -107
115	4	22	0.00	0.00		-65 -77 -98 -110
115	4	22	0.00	0.00		-17 -29 -107 13
116	4	33	0.00	0.00		-14 -26 -106 3
116	4	33	0.00	0.00		-62 -74 2 -103
117	4	11	0.00	0.00		-71 -83 10 -102
117	4	11	0.00	0.00		-59 -71 -102 -101
117	4	11	0.00	0.00		-23 -35 -99 19
118	4	33	0.00	0.00		-77 -78 5 -98
120	4	11	0.00	0.00		-20 -21 18 16
121	4	11	0.00	0.00		-17 -18 15 13
122	4	11	0.00	0.00		-14 -15 12 3
124	4	33	0.00	0.00		-79 -80 7 8
125	4	33	0.00	0.00		-74 -75 4 2
402	2	11	0.00	0.00	146.17	-52 -64 -63 -51
402	2	11	0.00	0.00	146.17	-17 -29 -28 -16
402	2	11	0.00	0.00	146.17	-53 -65 -64 -52
402	2	11	0.00	0.00	146.17	-65 -77 -76 -64
402	2	11	0.00	0.00	146.17	-40 -52 -51 -39
402	2	11	0.00	0.00	146.17	-64 -76 -75 -63
402	2	11	0.00	0.00	146.17	-50 -62 -61 -49
402	2	11	0.00	0.00	146.17	-51 -63 -62 -50
402	2	11	0.00	0.00	146.17	-84 -96 -95 -83
402	2	11	0.00	0.00	146.17	-72 -84 -83 -71
402	2	11	0.00	0.00	146.17	-48 -60 -59 -47
402	2	11	0.00	0.00	146.17	-24 -36 -35 -23
402	2	11	0.00	0.00	146.17	-44 -56 -55 -43
402	2	11	0.00	0.00	146.17	-68 -80 -79 -67
402	2	11	0.00	0.00	146.17	-38 -50 -49 -37
402	2	11	0.00	0.00	146.17	-8 -20 -19 -7
402	2	11	0.00	0.00	146.17	-23 -35 -34 -22
402	2	11	0.00	0.00	146.17	-35 -47 -46 -34
402	2	11	0.00	0.00	146.17	-59 -71 -70 -58
402	2	11	0.00	0.00	146.17	-69 -81 -80 -68
402	2	11	0.00	0.00	146.17	-57 -69 -68 -56
402	2	11	0.00	0.00	146.17	-21 -33 -32 -20
402	2	11	0.00	0.00	146.17	-26 -38 -37 -25
402	2	11	0.00	0.00	146.17	-82 -94 -93 -81
402	2	11	0.00	0.00	146.17	-70 -82 -81 -69
402	2	11	0.00	0.00	146.17	-34 -46 -45 -33
402	2	11	0.00	0.00	146.17	-58 -70 -69 -57
402	2	11	0.00	0.00	146.17	-7 -19 -18 -6
402	2	11	0.00	0.00	146.17	-19 -31 -30 -18
402	2	11	0.00	0.00	146.17	-43 -55 -54 -42
402	2	11	0.00	0.00	146.17	-78 -90 -89 -77
402	2	11	0.00	0.00	146.17	-66 -78 -77 -65

Relazione di calcolo

402	2	11	0.00	0.00	146.17	-54	-66	-65	-53	402	2	11	0.00	0.00	146.17	-42	-54	-53	-41
402	2	11	0.00	0.00	146.17	-62	-74	-73	-61	402	2	11	0.00	0.00	146.17	-2	-14	-13	-1
402	2	11	0.00	0.00	146.17	-5	-17	-16	-4	402	2	11	0.00	0.00	146.17	-4	-16	-15	-3
402	2	11	0.00	0.00	146.17	-3	-15	-14	-2	402	2	11	0.00	0.00	146.17	-74	-86	-85	-73
402	2	11	0.00	0.00	146.17	-30	-42	-41	-29	402	2	11	0.00	0.00	146.17	-75	-87	-86	-74
402	2	11	0.00	0.00	146.17	-76	-88	-87	-75	402	2	11	0.00	0.00	146.17	-77	-89	-88	-76
402	2	11	0.00	0.00	146.17	-18	-30	-29	-17										

Elenco tipi solai

Simbologia

Ts =Numero del tipo solaio
Comm. =Commento
Rc =Ripartizione carichi
UN = Unidirezionale
PP = A piastra perimetrale
PB = A piastra bisettrice
Qps =Carico permanente strutturale
Qpn =Carico permanente non strutturale
QA =Primo carico accidentale
QA2 =Secondo carico accidentale
QA3 =Terzo carico accidentale
Rip. ter. =Ripartizione su aste terminali
Rip. int. =Ripartizione su aste interne
Lfl =Larghezza fascia laterale
s =Coeff. di riduzione
Hs =Altezza solaio
Sc =Spessore cappa
Crit. =Numero del criterio di progetto

Ts	Comm.	Rc	Qps <daN/mq>	Qpn <daN/mq>	QA <daN/mq>	QA2 <daN/mq>	QA3 <daN/mq>	Rip. ter.	Rip. int.	Lfl <m>	s	Hs <cm>	Sc <cm>	Crit.
1	SOLAI0 COPERTURA	UN	325.00	200.00	50.00	50.00	0.00	50.00	50.00	0.00	0.33	20.00	5.00	1

Elenco solai

Simbologia

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

Sol.	Ts	Ord. <grad>	Nodi											
0	1	90.00	16	18	20	19	-99	-100	-101	-102	10	11	9	7
0	1	90.00	13	15	17	16	-111	-112	-113	-114	7	8	5	-98
0	1	90.00	3	12	14	13	-107	-108	-109	-110	-98	6	4	2

Carichi

Elenco tipi CCE

Simbologia

Tipo CCE =Tipo condizione di carico elementare
Comm. =Commento
Tipo =Tipologia
G = Permanente
Qv = Variabile vento
Q = Variabile
I = Da ignorare
A = Azione eccezionale
P = Precompressione
Durata =Durata del carico
N = Non definita
P = Permanente
L = Lunga
M = Media
B = Breve
I = Istantanea
γ min. =Coeff. γ min.
γ max =Coeff. γ max
ψ0 =Coeff. ψ0
ψ1 =Coeff. ψ1
ψ2 =Coeff. ψ2
ψ0,s =Coeff. ψ0 sismico (D.M. 96)

Tipo CCE	Comm.	Tipo	Durata	γ min.	γ max	ψ0	ψ1	ψ2	ψ0,s
----------	-------	------	--------	--------	-------	----	----	----	------

Relazione di calcolo

1	D.M. 08 Permanenti strutturali	G	N	1.00	1.30				
2	D.M. 08 Permanenti non strutturali	G	N	0.00	1.50				
19	D.M. 08 Variabili Categoria H - Coperture	Q	N	0.00	1.50	0.00	0.00	0.00	1.00
11	D.M. 08 Variabili Neve (a quota <= 1000 m s.l.m.)	Q	N	0.00	1.50	0.50	0.20	0.00	0.00

Condizioni di carico elementari

Simbologia

CCE = Numero della condizione di carico elementare

Comm. = Commento

Tipo CCE = Tipo di CCE per calcolo agli stati limite

Sic. = Contributo alla sicurezza

F = a favore

S = a sfavore

A = ambigua

Var. = Tipo di variabilità

B = di base

I = indipendente

A = ambigua

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

Dir. = Direzione del vento

Tipo = Tipologia di pressione vento

M = Massimizzata

E = Esterna

I = Interna

Mx = Moltiplicatore della massa in dir. X

My = Moltiplicatore della massa in dir. Y

Mz = Moltiplicatore della massa in dir. Z

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

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

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

CCE	Comm.	Tipo CCE	Sic.	Var.	s	Dir. <grad>	Tipo	Mx	My	Mz	Jpx	Jpy	Jpz
1	peso proprio	1	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
2	strutturale solaio	1	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
3	permanente solaio	2	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
4	variabile solaio	19	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
5	neve	11	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00

Elenco carichi asteCondizione di carico n. 1: peso proprio

Elenco peso proprio aste

Simbologia

Sez. = Numero della sezione

Comm. = Commento

A = Area

Mat. = Materiale

P = Peso specifico

PL = Peso specifico a metro lineare

Sez.	Comm.	A <cmq>	Mat.	P <daN/mc>	PL <daN/m>
2	tr_30x25	750.000000	Calcestruzzo	2500.00	187.50

Condizione di carico n. 2: strutturale solaio

Carichi distribuiti

Simbologia

Asta = Numero dell'asta

N1 = Nodo iniziale

N2 = Nodo finale

E = Elemento provenienza del carico

S = Solaio

T = Tamponatura

NE = Numero elemento di provenienza del carico

T = Tipo di carico

QA = Primo carico accidentale

QA2 = Secondo carico accidentale

QA3 = Terzo carico accidentale

QPS = Carico permanente strutturale

QPN = Carico permanente non strutturale

VE = Vento

M = Manuale

DC = Direzione del carico

XG,YG,ZG = secondo gli assi globali

XL,YL,ZL = secondo gli assi locali

Xi = Distanza iniziale

Qi = Carico iniziale

Relazione di calcolo

Xf =Distanza finale
Qf =Carico finale

Asta	N1	N2	ENE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>	Asta	N1	N2	ENE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
101	3	12	S0	QPS	ZG	0.00	747.50	1.00	747.50	101	12	14	S0	QPS	ZG	0.00	747.50	1.20	747.50
101	14	13	S0	QPS	ZG	0.00	747.50	0.90	747.50	101	13	15	S0	QPS	ZG	0.00	747.50	0.80	747.50
101	15	17	S0	QPS	ZG	0.00	747.50	1.20	747.50	101	17	16	S0	QPS	ZG	0.00	747.50	0.90	747.50
101	16	18	S0	QPS	ZG	0.00	747.50	1.50	747.50	101	18	20	S0	QPS	ZG	0.00	747.50	1.20	747.50
101	20	19	S0	QPS	ZG	0.00	747.50	1.60	747.50	102	2	4	S0	QPS	ZG	0.00	747.50	1.00	747.50
102	4	6	S0	QPS	ZG	0.00	747.50	1.20	747.50	102	6	-98	S0	QPS	ZG	0.00	747.50	0.90	747.50
102	-98	5	S0	QPS	ZG	0.00	747.50	0.80	747.50	102	5	8	S0	QPS	ZG	0.00	747.50	1.20	747.50
102	8	7	S0	QPS	ZG	0.00	747.50	0.90	747.50	102	7	9	S0	QPS	ZG	0.00	747.50	1.50	747.50
102	9	11	S0	QPS	ZG	0.00	747.50	1.20	747.50	102	11	10	S0	QPS	ZG	0.00	747.50	1.60	747.50

Condizione di carico n. 3: permanente solaio
Carichi distribuiti

Asta	N1	N2	ENE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>	Asta	N1	N2	ENE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
101	3	12	S0	QPN	ZG	0.00	460.00	1.00	460.00	101	12	14	S0	QPN	ZG	0.00	460.00	1.20	460.00
101	14	13	S0	QPN	ZG	0.00	460.00	0.90	460.00	101	13	15	S0	QPN	ZG	0.00	460.00	0.80	460.00
101	15	17	S0	QPN	ZG	0.00	460.00	1.20	460.00	101	17	16	S0	QPN	ZG	0.00	460.00	0.90	460.00
101	16	18	S0	QPN	ZG	0.00	460.00	1.50	460.00	101	18	20	S0	QPN	ZG	0.00	460.00	1.20	460.00
101	20	19	S0	QPN	ZG	0.00	460.00	1.60	460.00	102	2	4	S0	QPN	ZG	0.00	460.00	1.00	460.00
102	4	6	S0	QPN	ZG	0.00	460.00	1.20	460.00	102	6	-98	S0	QPN	ZG	0.00	460.00	0.90	460.00
102	-98	5	S0	QPN	ZG	0.00	460.00	0.80	460.00	102	5	8	S0	QPN	ZG	0.00	460.00	1.20	460.00
102	8	7	S0	QPN	ZG	0.00	460.00	0.90	460.00	102	7	9	S0	QPN	ZG	0.00	460.00	1.50	460.00
102	9	11	S0	QPN	ZG	0.00	460.00	1.20	460.00	102	11	10	S0	QPN	ZG	0.00	460.00	1.60	460.00

Condizione di carico n. 4: variabile solaio
Carichi distribuiti

Asta	N1	N2	ENE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>	Asta	N1	N2	ENE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
101	3	12	S0	QA	ZG	0.00	115.00	1.00	115.00	101	12	14	S0	QA	ZG	0.00	115.00	1.20	115.00
101	14	13	S0	QA	ZG	0.00	115.00	0.90	115.00	101	13	15	S0	QA	ZG	0.00	115.00	0.80	115.00
101	15	17	S0	QA	ZG	0.00	115.00	1.20	115.00	101	17	16	S0	QA	ZG	0.00	115.00	0.90	115.00
101	16	18	S0	QA	ZG	0.00	115.00	1.50	115.00	101	18	20	S0	QA	ZG	0.00	115.00	1.20	115.00
101	20	19	S0	QA	ZG	0.00	115.00	1.60	115.00	102	2	4	S0	QA	ZG	0.00	115.00	1.00	115.00
102	4	6	S0	QA	ZG	0.00	115.00	1.20	115.00	102	6	-98	S0	QA	ZG	0.00	115.00	0.90	115.00
102	-98	5	S0	QA	ZG	0.00	115.00	0.80	115.00	102	5	8	S0	QA	ZG	0.00	115.00	1.20	115.00
102	8	7	S0	QA	ZG	0.00	115.00	0.90	115.00	102	7	9	S0	QA	ZG	0.00	115.00	1.50	115.00
102	9	11	S0	QA	ZG	0.00	115.00	1.20	115.00	102	11	10	S0	QA	ZG	0.00	115.00	1.60	115.00

Condizione di carico n. 5: neve
Carichi distribuiti

Asta	N1	N2	ENE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>	Asta	N1	N2	ENE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
101	3	12	S0	QA2	ZG	0.00	115.00	1.00	115.00	101	12	14	S0	QA2	ZG	0.00	115.00	1.20	115.00
101	14	13	S0	QA2	ZG	0.00	115.00	0.90	115.00	101	13	15	S0	QA2	ZG	0.00	115.00	0.80	115.00
101	15	17	S0	QA2	ZG	0.00	115.00	1.20	115.00	101	17	16	S0	QA2	ZG	0.00	115.00	0.90	115.00
101	16	18	S0	QA2	ZG	0.00	115.00	1.50	115.00	101	18	20	S0	QA2	ZG	0.00	115.00	1.20	115.00
101	20	19	S0	QA2	ZG	0.00	115.00	1.60	115.00	102	2	4	S0	QA2	ZG	0.00	115.00	1.00	115.00
102	4	6	S0	QA2	ZG	0.00	115.00	1.20	115.00	102	6	-98	S0	QA2	ZG	0.00	115.00	0.90	115.00
102	-98	5	S0	QA2	ZG	0.00	115.00	0.80	115.00	102	5	8	S0	QA2	ZG	0.00	115.00	1.20	115.00
102	8	7	S0	QA2	ZG	0.00	115.00	0.90	115.00	102	7	9	S0	QA2	ZG	0.00	115.00	1.50	115.00
102	9	11	S0	QA2	ZG	0.00	115.00	1.20	115.00	102	11	10	S0	QA2	ZG	0.00	115.00	1.60	115.00

Elenco carichi elementi bidimensionaliElenco peso proprio elementi bidimensionali

Simbologia
Tb =Numero del tipo muro/elemento bidimensionale
Comm. = Commento
Spess. = Spessore
Mat. = Materiale
P =Peso specifico
PQ =Peso specifico per unità di superficie

Tb	Comm.	Spess. <cm>	Mat.	P <daN/mc>	PQ <daN/mq>	Tb	Comm.	Spess. <cm>	Mat.	P <daN/mc>	PQ <daN/mq>
2	platea_S35	35.00	Calcestruzzo	2500.00	875.00	4	m_30	30.00	Calcestruzzo	2500.00	750.00

Analisi dei carichi da neve

Risultati del calcolo

Parametri di calcolo

La modellazione della struttura e la rielaborazione dei risultati del calcolo sono stati effettuati con: ModeSt ver. 8.22, prodotto da Tecnisoft s.a.s. - Prato

La struttura è stata calcolata utilizzando come solutore agli elementi finiti: Xfinest ver. 2014, prodotto da Ce.A.S. S.r.l. - Milano

Tipo di normativa: stati limite D.M. 18
 Tipo di calcolo: analisi sismica statica
 Vincoli esterni: Considera sempre vincoli assegnati in modellazione
 Schematizzazione piani rigidi: metodo Master-Slave
 Modalità di recupero masse secondarie: trasferire le masse
 - All'impalcato più vicino in assoluto: No
 - Anche sui nodi degli impalcati non rigidi: No
 - Modificare coordinate baricentro impalcati rigidi: XY

Generazione combinazioni

- Lineari: Sì
 - Valuta spostamenti e non sollecitazioni: No
 - Buckling: No

Opzioni di calcolo

- Sono state considerate infinitamente rigide le zone di connessione fra travi, pilastri ed elementi bidimensionali con una riduzione del 20%
 - Calcolo con offset rigidi dai nodi: No
 - Uniformare i carichi variabili: No
 - Massimizzare i carichi variabili: No
 - Recupero carichi zone rigide: taglio e momento flettente
 - Modalità di combinazione momento torcente: disaccoppiare le azioni

Opzioni del solutore

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

Dati struttura

- Sito di costruzione: Unnamed Road, 72020 Erchie BR, Italia LON. 17.75300 LAT. 40.39930
 Contenuto tra ID reticolo: 34808 35030 34807 35029

Simbologia

TCC=Tipo di combinazione di carico
 SLU = Stato limite ultimo
 SLU S = Stato limite ultimo (azione sismica)
 SLE R = Stato limite d'esercizio, combinazione rara
 SLE F = Stato limite d'esercizio, combinazione frequente
 SLE Q = Stato limite d'esercizio, combinazione quasi permanente
 SLD = Stato limite di danno
 SLV = Stato limite di salvaguardia della vita
 SLC = Stato limite di prevenzione del collasso
 SLO = Stato limite di operatività
 SLU I = Stato limite di resistenza al fuoco
 SND = Stato limite di salvaguardia della vita (non dissipativo)
 T_R =Periodo di ritorno <anni>
 A_g =Accelerazione orizzontale massima al sito
 F_o =Valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale
 T_c*=Periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale <sec>
 S_s =Coefficiente di amplificazione stratigrafica
 C_c =Coefficiente funzione della categoria del suolo

TCC	T _R	A _g <g>	F _o	T _c *	S _s	C _c
SLD	201	0.0391	2.51	0.39	1.00	1.00
SLV	1898	0.0700	2.93	0.52	1.00	1.00

- Tipo di opera: Opera ordinaria
 - Vita nominale V_N: 100.00
 - Classe d'uso: Classe IV
 - SL Esercizio: SLOPvr No, SLDPvr 63.00
 - SL Ultimi: SLVPvr 10.00, SLCPvr No

Relazione di calcolo

- Struttura dissipativa: Sì
- Classe di duttilità: Classe B
- Quota di riferimento: -0.00 <m>
- Quota max della struttura: 3.55 <m>
- Altezza della struttura: 3.55 <m>
- Numero piani edificio: 1
- Coefficiente θ : 0.00
- Edificio regolare in altezza: Sì
- Edificio regolare in pianta: Sì
- Forze orizzontali convenzionali per stati limite non sismici: No
- Genera stati limite per verifiche di resistenza al fuoco: No

Dati di piano

Simbologia

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

Imp.	Lx <m>	Ly <m>	Ex <m>	Ey <m>	Ea <m>
1	10.30	4.60	0.52	0.23	0.56

Dati di calcolo

- Categoria del suolo di fondazione: A
- Tipologia strutturale: muratura ordinaria

Periodo T_1	0.12931
Coeff. λ SLD	1.00
Coeff. λ SLV	1.00
Rapporto di sovraresistenza (α_u/α_1)	1.70
Valore di riferimento del fattore di comportamento (q_0)	2.98
Fattore di comportamento dissipativo (q)	2.98
Fattore di comportamento non dissipativo (q_{ND})	1.50
Fattore di comportamento per SLD (q_D)	1.50

- Categoria topografica: T1 - Superficie pianeggiante, pendii e rilievi isolati con inclinazione media $i \leq 15^\circ$
- Coeff. amplificazione topografica S_T : 1.00
- Accelerazione di picco del terreno $A_g S$: 0.07 <g>
- Applica semplificazioni per bassa sismicità: No
- Fattore di comportamento per sisma verticale (q_v): 1.50
- Smorzamento spettro: 5.00%

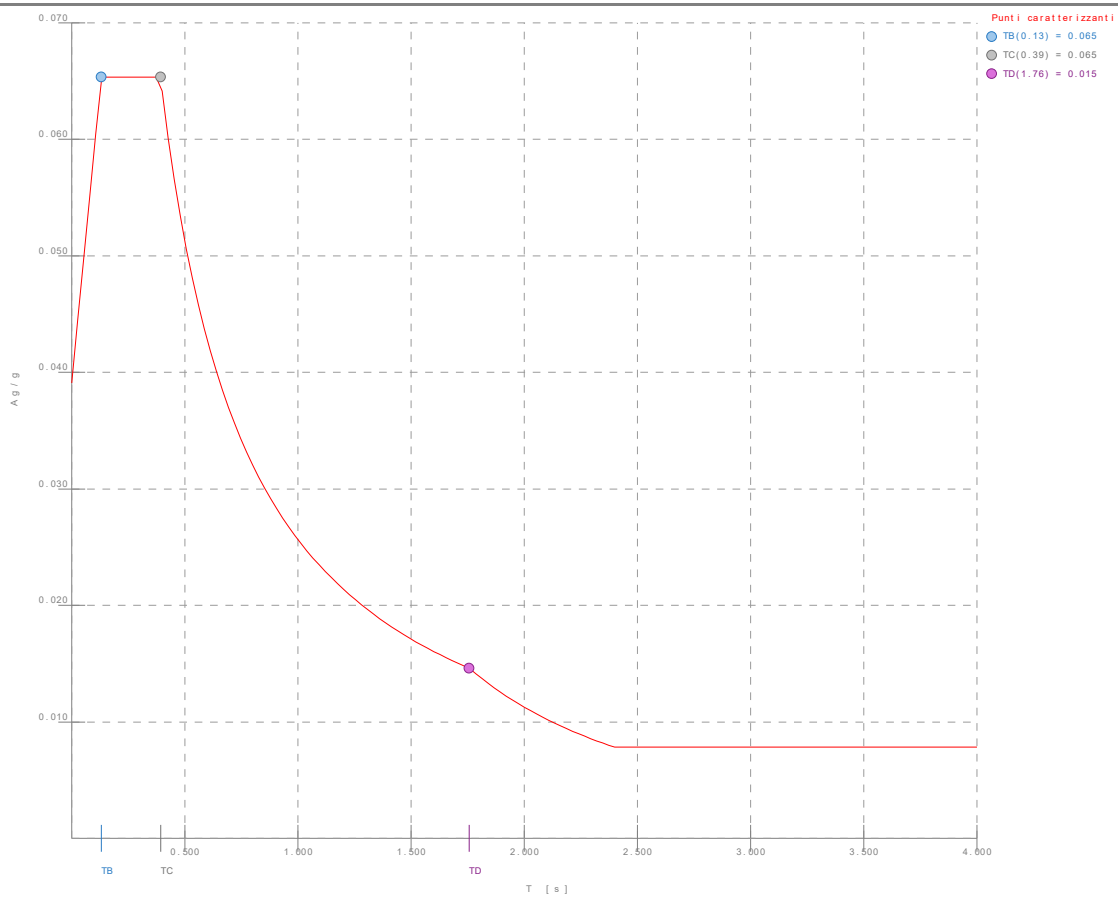


Figura numero 1: Spettro SLD

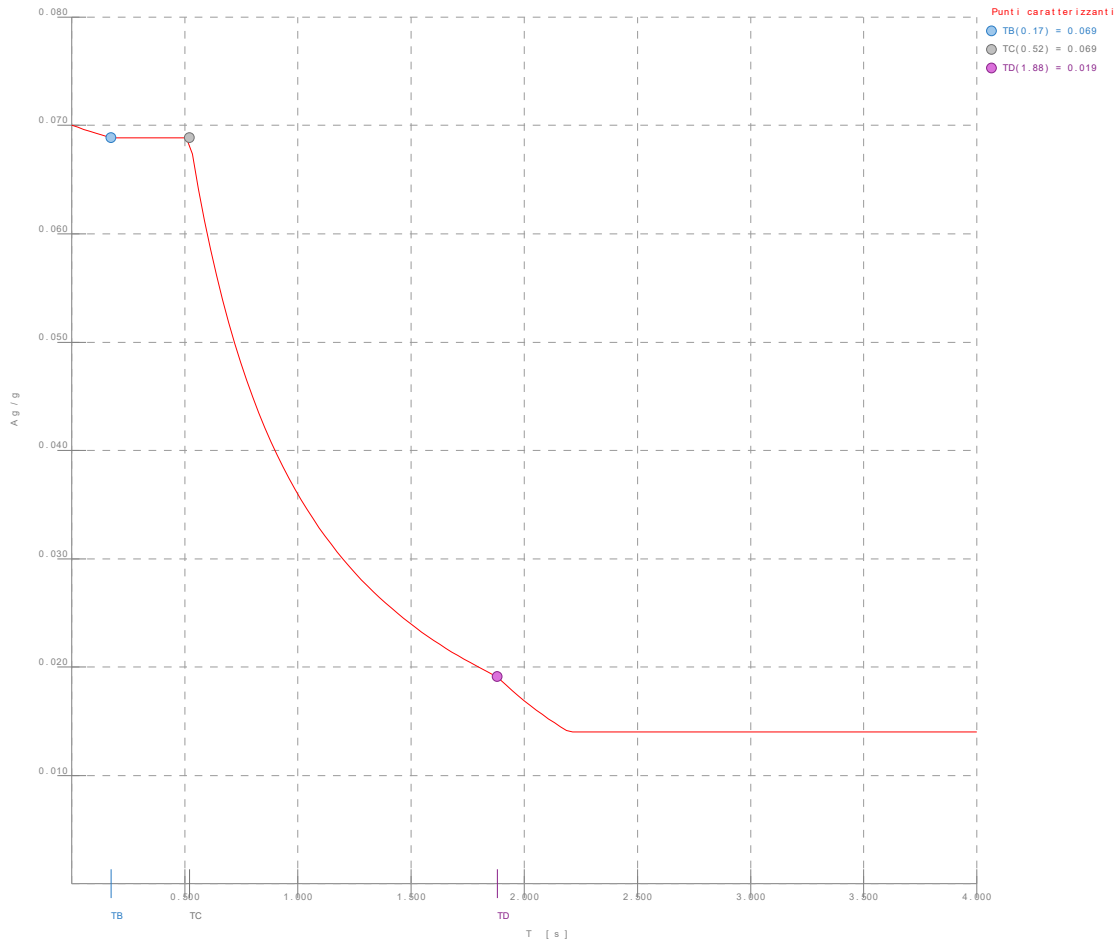


Figura numero 2: Spettro SLV

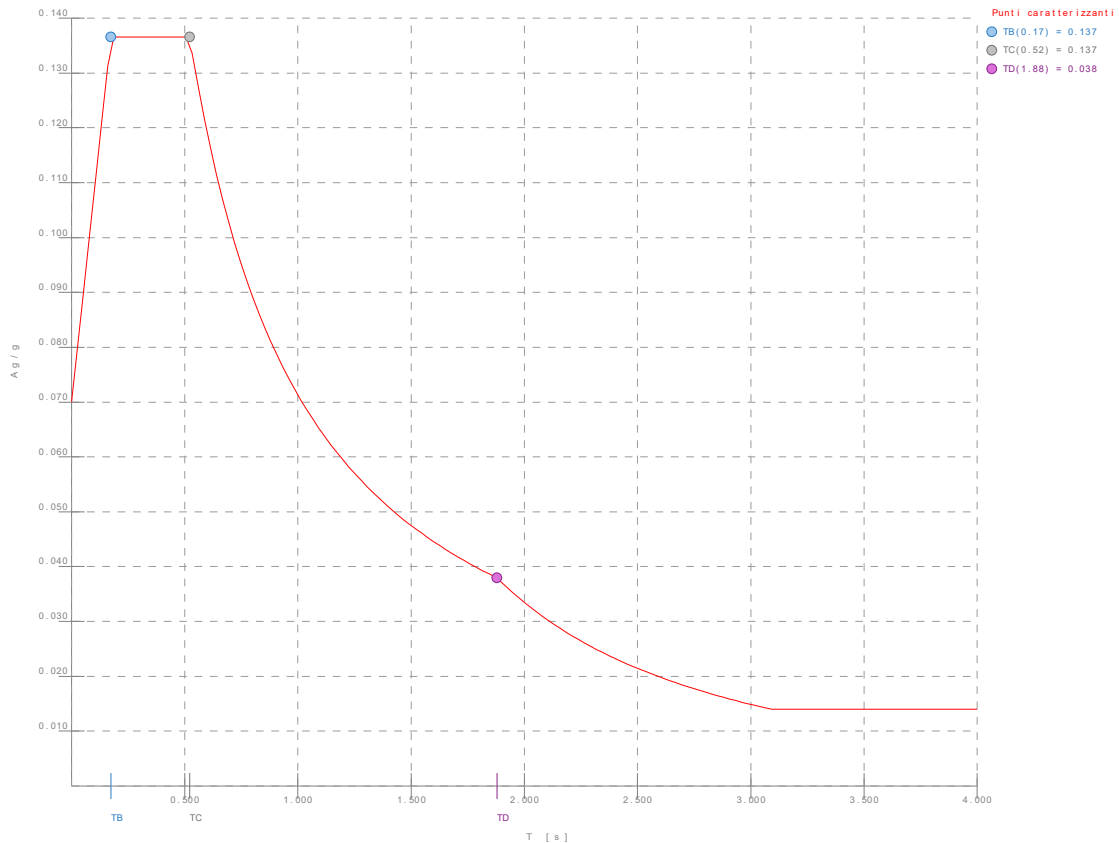


Figura numero 3: Spettro SND

- Angolo di ingresso del sisma: 0.00 <grad>

Ambienti di carico

Simbologia

N = Numero

Comm. = Commento

1=peso proprio

2=strutturale solaio

3=permanente solaio

4=variabile solaio

5=neve

F = azioni orizzontali convenzionali

SLU = Stato limite ultimo

SLR = Stato limite per combinazioni rare

SLF = Stato limite per combinazioni frequenti

SLQ/D = Stato limite per combinazioni quasi permanenti o di danno

S = Si

N = No

N	Comm.	1	2	3	4	5	SLU	SLR	SLF	SLQ
1	Calcolo sismico	S	S	S	S	S	S	N	N	N
2	Calcolo statico	S	S	S	S	N	S	S	S	S

Elenco combinazioni di carico simboliche

Simbologia

CC = Numero della combinazione delle condizioni di carico elementari

Comm. = Commento

TCC = Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

SLE F = Stato limite d'esercizio, combinazione frequente

SLE Q = Stato limite d'esercizio, combinazione quasi permanente

SLD = Stato limite di danno

SLV = Stato limite di salvaguardia della vita

SLC = Stato limite di prevenzione del collasso

SLO = Stato limite di operatività

SLU I = Stato limite di resistenza al fuoco

SND = Stato limite di salvaguardia della vita (non dissipativo)

Relazione di calcolo

CC	Comm.	TCC	1	2	3	4	5	S
1	Amb. 1 (Sisma)	SLU S	1	1	1	ψ_2	ψ_2	1
2	Amb. 2 (SLU)	SLU	γ_{max}	γ_{max}	γ_{max}	γ_{max}	γ_{max}	-----
3	Amb. 2 (SLE R)	SLE R	1	1	1	1	1	-----
4	Amb. 2 (SLE F)	SLE F	1	1	1	ψ_1	ψ_1	-----
5	Amb. 2 (SLE Q)	SLE Q	1	1	1	ψ_2	ψ_2	-----

Genera le combinazioni con un solo carico di tipo variabile come di base: No

Considera sollecitazioni dinamiche con segno dei modi principali: No

Combinazioni delle CCE

Simbologia

CC = Numero della combinazione delle condizioni di carico elementari

Comm. = Commento

TCC = Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

SLE F = Stato limite d'esercizio, combinazione frequente

SLE Q = Stato limite d'esercizio, combinazione quasi permanente

SLD = Stato limite di danno

SLV = Stato limite di salvaguardia della vita

SLC = Stato limite di prevenzione del collasso

SLO = Stato limite di operatività

SLU I = Stato limite di resistenza al fuoco

SND = Stato limite di salvaguardia della vita (non dissipativo)

An. = Tipo di analisi

L = Lineare

NL = Non lineare

Bk = Buckling

S = Sì

N = No

CC	Comm.	TCC	An.	Bk	1	2	3	4	5	Mt	S X	S Y
1	Amb. 1 (SLU S) S Mt+X+0.3Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.30
2	Amb. 1 (SLE) S Mt+X+0.3Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.30
3	Amb. 1 (SLU S) S Mt+X-0.3Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	1.00	1.00	-0.30
4	Amb. 1 (SLE) S Mt+X-0.3Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	1.00	1.00	-0.30
5	Amb. 1 (SLU S) S Mt-X+0.3Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	1.00	-1.00	0.30
6	Amb. 1 (SLE) S Mt-X+0.3Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	1.00	-1.00	0.30
7	Amb. 1 (SLU S) S Mt-X-0.3Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	1.00	-1.00	-0.30
8	Amb. 1 (SLE) S Mt-X-0.3Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	1.00	-1.00	-0.30
9	Amb. 1 (SLU S) S Mt+0.3X+Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	1.00	0.30	1.00
10	Amb. 1 (SLE) S Mt+0.3X+Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	1.00	0.30	1.00
11	Amb. 1 (SLU S) S Mt-0.3X+Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	1.00	-0.30	1.00
12	Amb. 1 (SLE) S Mt-0.3X+Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	1.00	-0.30	1.00
13	Amb. 1 (SLU S) S Mt+0.3X-Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	1.00	0.30	-1.00
14	Amb. 1 (SLE) S Mt+0.3X-Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	1.00	0.30	-1.00
15	Amb. 1 (SLU S) S Mt-0.3X-Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	1.00	-0.30	-1.00
16	Amb. 1 (SLE) S Mt-0.3X-Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	1.00	-0.30	-1.00
17	Amb. 1 (SLU S) S -Mt+X+0.3Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	1.00	0.30
18	Amb. 1 (SLE) S -Mt+X+0.3Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	1.00	0.30
19	Amb. 1 (SLU S) S -Mt+X-0.3Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	1.00	-0.30
20	Amb. 1 (SLE) S -Mt+X-0.3Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	1.00	-0.30
21	Amb. 1 (SLU S) S -Mt-X+0.3Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	-1.00	0.30
22	Amb. 1 (SLE) S -Mt-X+0.3Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	-1.00	0.30
23	Amb. 1 (SLU S) S -Mt-X-0.3Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	-1.00	-0.30
24	Amb. 1 (SLE) S -Mt-X-0.3Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	-1.00	-0.30
25	Amb. 1 (SLU S) S -Mt+0.3X+Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	0.30	1.00
26	Amb. 1 (SLE) S -Mt+0.3X+Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	0.30	1.00
27	Amb. 1 (SLU S) S -Mt-0.3X+Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	-0.30	1.00
28	Amb. 1 (SLE) S -Mt-0.3X+Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	-0.30	1.00
29	Amb. 1 (SLU S) S -Mt+0.3X-Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	0.30	-1.00
30	Amb. 1 (SLE) S -Mt+0.3X-Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	0.30	-1.00
31	Amb. 1 (SLU S) S -Mt-0.3X-Y	SLV+SND	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	-0.30	-1.00
32	Amb. 1 (SLE) S -Mt-0.3X-Y	SLD	L	N	1.00	1.00	1.00	0.00	0.00	-1.00	-0.30	-1.00
33	Amb. 2 (SLU)	SLU	L	N	1.30	1.30	1.50	1.50	1.50	0.00	0.00	0.00
34	Amb. 2 (SLE R)	SLE R	L	N	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00
35	Amb. 2 (SLE F)	SLE F	L	N	1.00	1.00	1.00	0.00	0.20	0.00	0.00	0.00
36	Amb. 2 (SLE Q)	SLE Q	L	N	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00

Elenco baricentri e masse impalcato

Simbologia

Imp. = Numero dell'impalcato

X = Coordinata X

Relazione di calcolo

Y = Coordinata Y
Z = Coordinata Z
Mo = Massa orizzontale
Jpz = Massa rotazionale intorno all'asse Z

Imp.	X <m>	Y <m>	Z <m>	Mo <kg>	Jpz <kg*mq>
1	5.09	2.30	3.55	75964.00	1067930.00

Totali masse impalcanti

Mo <kg>	Jpz <kg*mq>
75964.00	1067930.00

Elenco forze sismiche di impalcato allo SLD

Simbologia

Imp. = Numero dell'impalcato
cx = Coeff. c in dir. X
cy = Coeff. c in dir. Y
Fx = Forza in dir. X
Fy = Forza in dir. Y
Mz = Momento intorno all'asse Z

Imp.	cx	cy	Fx <daN>	Fy <daN>	Mz <daNm>
1	1.00	1.00	4846.35	4846.35	2733.47

Totali forze sismiche

Fx <daN>	Fy <daN>	Mz <daNm>
4846.35	4846.35	2733.47

Elenco forze sismiche di impalcato allo SLV

Imp.	cx	cy	Fx <daN>	Fy <daN>	Mz <daNm>
1	1.00	1.00	5153.67	5153.67	2906.80

Totali forze sismiche

Fx <daN>	Fy <daN>	Mz <daNm>
5153.67	5153.67	2906.80

Elenco forze sismiche di impalcato allo SND

Imp.	cx	cy	Fx <daN>	Fy <daN>	Mz <daNm>
1	1.00	1.00	8905.44	8905.44	5022.90

Totali forze sismiche

Fx <daN>	Fy <daN>	Mz <daNm>
8905.44	8905.44	5022.90

Domanda in duttilità di curvatura

Direzione X $\mu_{EdX}=20.59$

Direzione Y $\mu_{EdY}=20.59$

Spostamenti dei nodi

Simbologia

Nodo = Numero del nodo
Sx = Spostamento in dir. X
CC = Numero della combinazione delle condizioni di carico elementari
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLU S = Stato limite ultimo (azione sismica)
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SLC = Stato limite di prevenzione del collasso
SLO = Stato limite di operatività
SLU I = Stato limite di resistenza al fuoco
SND = Stato limite di salvaguardia della vita (non dissipativo)
Sy = Spostamento in dir. Y
Sz = Spostamento in dir. Z

Relazione di calcolo

Rx =Rotazione intorno all'asse X
Ry =Rotazione intorno all'asse Y
Rz =Rotazione intorno all'asse Z

I valori degli spostamenti nodali per CC di tipo sismico sono amplificati come da normativa

Nodo		Sx <cm>	CC	TCC	Sy <cm>	CC	TCC	Sz <cm>	CC	TCC	Rx <rad>	CC	TCC	Ry <rad>	CC	TCC	Rz <rad>	CC	TCC
-114	Max	0.03	19	SLV	0.02	11	SLV	-0.00	29	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
-114	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.01	11	SLV	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
-113	Max	0.03	19	SLV	0.02	11	SLV	-0.00	19	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
-113	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.00	5	SLV	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
-112	Max	0.03	19	SLV	0.02	11	SLV	-0.00	19	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
-112	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.00	33	SLU	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
-111	Max	0.03	1	SLV	0.02	11	SLV	-0.00	1	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
-111	Min.	-0.03	23	SLV	-0.02	29	SLV	-0.00	23	SLV	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
-110	Max	0.03	19	SLV	0.02	25	SLV	-0.00	15	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
-110	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.00	25	SLV	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
-109	Max	0.03	19	SLV	0.02	25	SLV	-0.00	15	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
-109	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.00	33	SLU	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
-108	Max	0.03	19	SLV	0.02	25	SLV	-0.00	15	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
-108	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.00	33	SLU	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
-107	Max	0.03	1	SLV	0.02	25	SLV	-0.00	27	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
-107	Min.	-0.03	23	SLV	-0.02	15	SLV	-0.00	33	SLU	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
-106	Max	0.03	1	SLV	0.02	25	SLV	0.00	17	SLV	0.00	15	SLV	0.00	19	SLV	0.00	11	SLV
-106	Min.	-0.03	23	SLV	-0.02	15	SLV	-0.01	7	SLV	0.00	25	SLV	0.00	5	SLV	0.00	29	SLV
-105	Max	0.03	19	SLV	0.02	25	SLV	-0.00	3	SLV	0.00	15	SLV	0.00	19	SLV	0.00	11	SLV
-105	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.01	21	SLV	0.00	25	SLV	0.00	5	SLV	0.00	29	SLV
-104	Max	0.03	19	SLV	0.02	25	SLV	0.00	3	SLV	0.00	15	SLV	0.00	19	SLV	0.00	11	SLV
-104	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.01	21	SLV	0.00	25	SLV	0.00	5	SLV	0.00	29	SLV
-103	Max	0.03	19	SLV	0.02	25	SLV	0.00	13	SLV	0.00	15	SLV	0.00	19	SLV	0.00	11	SLV
-103	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.01	27	SLV	0.00	25	SLV	0.00	5	SLV	0.00	29	SLV
-102	Max	0.03	19	SLV	0.02	11	SLV	0.00	23	SLV	0.00	29	SLV	0.00	19	SLV	0.00	11	SLV
-102	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.01	1	SLV	0.00	11	SLV	0.00	5	SLV	0.00	29	SLV
-101	Max	0.03	19	SLV	0.02	11	SLV	0.00	23	SLV	0.00	29	SLV	0.00	19	SLV	0.00	11	SLV
-101	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.01	1	SLV	0.00	11	SLV	0.00	5	SLV	0.00	29	SLV
-100	Max	0.03	19	SLV	0.02	11	SLV	0.00	23	SLV	0.00	29	SLV	0.00	19	SLV	0.00	11	SLV
-100	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.01	1	SLV	0.00	11	SLV	0.00	5	SLV	0.00	29	SLV
-99	Max	0.03	1	SLV	0.02	11	SLV	0.00	5	SLV	0.00	29	SLV	0.00	19	SLV	0.00	11	SLV
-99	Min.	-0.03	23	SLV	-0.02	29	SLV	-0.01	19	SLV	0.00	11	SLV	0.00	5	SLV	0.00	29	SLV
-98	Max	0.03	19	SLV	0.02	25	SLV	0.00	15	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
-98	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.01	25	SLV	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
-96	Max	0.00	1	SLV	0.00	1	SLV	0.00	23	SLV	0.00	1	SLV	0.00	19	SLV	0.00	1	SLV
-96	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	1	SLV	0.00	23	SLV	0.00	5	SLV	0.00	1	SLV
-95	Max	0.00	1	SLV	0.00	1	SLV	0.00	31	SLV	0.00	1	SLV	0.00	19	SLV	0.00	1	SLV
-95	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	9	SLV	0.00	23	SLV	0.00	5	SLV	0.00	1	SLV
-94	Max	0.00	1	SLV	0.00	1	SLV	0.00	29	SLV	0.00	5	SLV	0.00	5	SLV	0.00	1	SLV
-94	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	11	SLV	0.00	19	SLV	0.00	19	SLV	0.00	1	SLV
-93	Max	0.00	1	SLV	0.00	1	SLV	0.00	31	SLV	0.00	17	SLV	0.00	5	SLV	0.00	1	SLV
-93	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	9	SLV	0.00	7	SLV	0.00	19	SLV	0.00	1	SLV
-92	Max	0.00	1	SLV	0.00	1	SLV	0.00	29	SLV	0.00	11	SLV	0.00	19	SLV	0.00	1	SLV
-92	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	11	SLV	0.00	29	SLV	0.00	5	SLV	0.00	1	SLV
-91	Max	0.00	1	SLV	0.00	1	SLV	0.00	29	SLV	0.00	5	SLV	0.00	7	SLV	0.00	1	SLV
-91	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	11	SLV	0.00	19	SLV	0.00	17	SLV	0.00	1	SLV
-90	Max	0.00	1	SLV	0.00	1	SLV	0.00	13	SLV	0.00	17	SLV	0.00	7	SLV	0.00	1	SLV
-90	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	27	SLV	0.00	7	SLV	0.00	17	SLV	0.00	1	SLV
-89	Max	0.00	1	SLV	0.00	1	SLV	0.00	15	SLV	0.00	27	SLV	0.00	17	SLV	0.00	1	SLV
-89	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	25	SLV	0.00	13	SLV	0.00	7	SLV	0.00	1	SLV
-88	Max	0.00	1	SLV	0.00	1	SLV	0.00	15	SLV	0.00	5	SLV	0.00	7	SLV	0.00	1	SLV
-88	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	25	SLV	0.00	19	SLV	0.00	17	SLV	0.00	1	SLV
-87	Max	0.00	1	SLV	0.00	1	SLV	0.00	15	SLV	0.00	25	SLV	0.00	15	SLV	0.00	1	SLV
-87	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	25	SLV	0.00	15	SLV	0.00	25	SLV	0.00	1	SLV
-86	Max	0.00	1	SLV	0.00	1	SLV	0.00	13	SLV	0.00	27	SLV	0.00	17	SLV	0.00	1	SLV
-86	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	27	SLV	0.00	13	SLV	0.00	7	SLV	0.00	1	SLV
-85	Max	0.00	1	SLV	0.00	1	SLV	0.00	13	SLV	0.00	21	SLV	0.00	17	SLV	0.00	1	SLV
-85	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	27	SLV	0.00	3	SLV	0.00	7	SLV	0.00	1	SLV
-84	Max	0.00	1	SLV	0.00	1	SLV	0.00	23	SLV	0.00	1	SLV	0.00	19	SLV	0.00	1	SLV
-84	Min.	0.00	1	SLV	0.00	1	SLV	-0.01	1	SLV	0.00	23	SLV	0.00	5	SLV	0.00	1	SLV
-83	Max	0.00	1	SLV	0.00	1	SLV	0.00	23	SLV	0.00	29	SLV	0.00	19	SLV	0.00	1	SLV
-83	Min.	0.00	1	SLV	0.00	1	SLV	-0.01	1	SLV	0.00	11	SLV	0.00	5	SLV	0.00	1	SLV
-82	Max	0.00	1	SLV	0.00	1	SLV	0.00	29	SLV	0.00	29	SLV	0.00	19	SLV	0.00	1	SLV
-82	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	11	SLV	0.00	11	SLV	0.00	5	SLV	0.00	1	SLV
-81	Max	0.00	1	SLV	0.00	1	SLV	0.00	31	SLV	0.00	31	SLV	0.00	17	SLV	0.00	1	SLV
-81	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	9	SLV	0.00	9	SLV	0.00	7	SLV	0.00	1	SLV
-80	Max	0.00	1	SLV	0.00	1	SLV	0.00	29	SLV	0.00	31	SLV	0.00	17	SLV	0.00	1	SLV
-80	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	11	SLV	0.00	9	SLV	0.00	7	SLV	0.00	1	SLV
-79	Max	0.00	1	SLV	0.00	1	SLV	0.00	19	SLV	0.00	31	SLV	0.00	17	SLV	0.00	1	SLV
-79	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	5	SLV	0.00	9	SLV	0.00	7	SLV	0.00	1	SLV
-78	Max	0.00	1	SLV	0.00	1	SLV	0.00	15	SLV	0.00	15	SLV	0.00	17	SLV	0.00	1	SLV
-78	Min.	0.00	1	SLV	0.00	1	SLV	-0.00	25	SLV	0.00	25	SLV	0.00	7	SLV	0.00	1	SLV

Relazione di calcolo

-77Max	0.00	1SLV	0.00	1SLV	0.00	15SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-77Min.	0.00	1SLV	0.00	1SLV	-0.00	25SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-76Max	0.00	1SLV	0.00	1SLV	0.00	13SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-76Min.	0.00	1SLV	0.00	1SLV	-0.00	27SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-75Max	0.00	1SLV	0.00	1SLV	0.00	15SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-75Min.	0.00	1SLV	0.00	1SLV	-0.00	25SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-74Max	0.00	1SLV	0.00	1SLV	0.00	13SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-74Min.	0.00	1SLV	0.00	1SLV	-0.00	27SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-73Max	0.00	1SLV	0.00	1SLV	0.00	3SLV	0.00	21SLV	0.00	25SLV	0.00	1SLV
-73Min.	0.00	1SLV	0.00	1SLV	-0.00	21SLV	0.00	3SLV	0.00	15SLV	0.00	1SLV
-72Max	0.00	1SLV	0.00	1SLV	0.00	23SLV	0.00	31SLV	0.00	19SLV	0.00	1SLV
-72Min.	0.00	1SLV	0.00	1SLV	-0.01	1SLV	0.00	9SLV	0.00	5SLV	0.00	1SLV
-71Max	0.00	1SLV	0.00	1SLV	0.00	23SLV	0.00	29SLV	0.00	19SLV	0.00	1SLV
-71Min.	0.00	1SLV	0.00	1SLV	-0.01	1SLV	0.00	11SLV	0.00	5SLV	0.00	1SLV
-70Max	0.00	1SLV	0.00	1SLV	0.00	29SLV	0.00	19SLV	0.00	9SLV	0.00	1SLV
-70Min.	0.00	1SLV	0.00	1SLV	-0.00	11SLV	0.00	5SLV	0.00	31SLV	0.00	1SLV
-69Max	0.00	1SLV	0.00	1SLV	0.00	31SLV	0.00	23SLV	0.00	7SLV	0.00	1SLV
-69Min.	0.00	1SLV	0.00	1SLV	-0.00	9SLV	0.00	1SLV	0.00	17SLV	0.00	1SLV
-68Max	0.00	1SLV	0.00	1SLV	-0.00	29SLV	0.00	31SLV	0.00	17SLV	0.00	1SLV
-68Min.	0.00	1SLV	0.00	1SLV	-0.00	11SLV	0.00	9SLV	0.00	7SLV	0.00	1SLV
-67Max	0.00	1SLV	0.00	1SLV	0.00	19SLV	0.00	19SLV	0.00	5SLV	0.00	1SLV
-67Min.	0.00	1SLV	0.00	1SLV	-0.00	5SLV	0.00	5SLV	0.00	19SLV	0.00	1SLV
-66Max	0.00	1SLV	0.00	1SLV	0.00	13SLV	0.00	15SLV	0.00	7SLV	0.00	1SLV
-66Min.	0.00	1SLV	0.00	1SLV	-0.00	27SLV	0.00	25SLV	0.00	17SLV	0.00	1SLV
-65Max	0.00	1SLV	0.00	1SLV	-0.00	13SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-65Min.	0.00	1SLV	0.00	1SLV	-0.00	27SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-64Max	0.00	1SLV	0.00	1SLV	0.00	15SLV	0.00	13SLV	0.00	5SLV	0.00	1SLV
-64Min.	0.00	1SLV	0.00	1SLV	-0.00	25SLV	0.00	27SLV	0.00	19SLV	0.00	1SLV
-63Max	0.00	1SLV	0.00	1SLV	0.00	15SLV	0.00	15SLV	0.00	13SLV	0.00	1SLV
-63Min.	0.00	1SLV	0.00	1SLV	-0.00	25SLV	0.00	25SLV	0.00	27SLV	0.00	1SLV
-62Max	0.00	1SLV	0.00	1SLV	0.00	13SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-62Min.	0.00	1SLV	0.00	1SLV	-0.00	27SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-61Max	0.00	1SLV	0.00	1SLV	0.00	3SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-61Min.	0.00	1SLV	0.00	1SLV	-0.00	21SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-60Max	0.00	1SLV	0.00	1SLV	0.00	23SLV	0.00	29SLV	0.00	19SLV	0.00	1SLV
-60Min.	0.00	1SLV	0.00	1SLV	-0.01	1SLV	0.00	11SLV	0.00	5SLV	0.00	1SLV
-59Max	0.00	1SLV	0.00	1SLV	0.00	23SLV	0.00	29SLV	0.00	19SLV	0.00	1SLV
-59Min.	0.00	1SLV	0.00	1SLV	-0.00	1SLV	0.00	11SLV	0.00	5SLV	0.00	1SLV
-58Max	0.00	1SLV	0.00	1SLV	0.00	29SLV	0.00	31SLV	0.00	1SLV	0.00	1SLV
-58Min.	0.00	1SLV	0.00	1SLV	0.00	33SLU	0.00	9SLV	0.00	23SLV	0.00	1SLV
-57Max	0.00	1SLV	0.00	1SLV	0.00	19SLV	0.00	29SLV	0.00	31SLV	0.00	1SLV
-57Min.	0.00	1SLV	0.00	1SLV	0.00	33SLU	0.00	11SLV	0.00	33SLU	0.00	1SLV
-56Max	0.00	1SLV	0.00	1SLV	-0.00	29SLV	0.00	31SLV	0.00	17SLV	0.00	1SLV
-56Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	9SLV	0.00	7SLV	0.00	1SLV
-55Max	0.00	1SLV	0.00	1SLV	0.00	19SLV	0.00	31SLV	0.00	5SLV	0.00	1SLV
-55Min.	0.00	1SLV	0.00	1SLV	-0.00	5SLV	0.00	9SLV	0.00	19SLV	0.00	1SLV
-54Max	0.00	1SLV	0.00	1SLV	-0.00	15SLV	0.00	3SLV	0.00	15SLV	0.00	1SLV
-54Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	21SLV	0.00	25SLV	0.00	1SLV
-53Max	0.00	1SLV	0.00	1SLV	-0.00	13SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-53Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	25SLV	0.00	7SLV	0.00	1SLV
-52Max	0.00	1SLV	0.00	1SLV	0.00	15SLV	0.00	15SLV	0.00	27SLV	0.00	1SLV
-52Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	25SLV	0.00	13SLV	0.00	1SLV
-51Max	0.00	1SLV	0.00	1SLV	0.00	13SLV	0.00	13SLV	0.00	13SLV	0.00	1SLV
-51Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	27SLV	0.00	27SLV	0.00	1SLV
-50Max	0.00	1SLV	0.00	1SLV	-0.00	3SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-50Min.	0.00	1SLV	0.00	1SLV	-0.00	21SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-49Max	0.00	1SLV	0.00	1SLV	0.00	3SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-49Min.	0.00	1SLV	0.00	1SLV	-0.00	21SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-48Max	0.00	1SLV	0.00	1SLV	0.00	23SLV	0.00	31SLV	0.00	19SLV	0.00	1SLV
-48Min.	0.00	1SLV	0.00	1SLV	-0.01	1SLV	0.00	9SLV	0.00	5SLV	0.00	1SLV
-47Max	0.00	1SLV	0.00	1SLV	0.00	23SLV	0.00	29SLV	0.00	19SLV	0.00	1SLV
-47Min.	0.00	1SLV	0.00	1SLV	-0.00	1SLV	0.00	11SLV	0.00	5SLV	0.00	1SLV
-46Max	0.00	1SLV	0.00	1SLV	0.00	29SLV	0.00	1SLV	0.00	1SLV	0.00	1SLV
-46Min.	0.00	1SLV	0.00	1SLV	0.00	11SLV	0.00	23SLV	0.00	23SLV	0.00	1SLV
-45Max	0.00	1SLV	0.00	1SLV	0.00	19SLV	0.00	5SLV	0.00	5SLV	0.00	1SLV
-45Min.	0.00	1SLV	0.00	1SLV	0.00	5SLV	0.00	19SLV	0.00	33SLU	0.00	1SLV
-44Max	0.00	1SLV	0.00	1SLV	-0.00	19SLV	0.00	31SLV	0.00	17SLV	0.00	1SLV
-44Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	9SLV	0.00	7SLV	0.00	1SLV
-43Max	0.00	1SLV	0.00	1SLV	0.00	19SLV	0.00	1SLV	0.00	7SLV	0.00	1SLV
-43Min.	0.00	1SLV	0.00	1SLV	-0.00	5SLV	0.00	23SLV	0.00	17SLV	0.00	1SLV
-42Max	0.00	1SLV	0.00	1SLV	0.00	7SLV	0.00	7SLV	0.00	3SLV	0.00	1SLV
-42Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	17SLV	0.00	33SLU	0.00	1SLV
-41Max	0.00	1SLV	0.00	1SLV	-0.00	13SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-41Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	25SLV	0.00	7SLV	0.00	1SLV
-40Max	0.00	1SLV	0.00	1SLV	0.00	15SLV	0.00	17SLV	0.00	33SLU	0.00	1SLV
-40Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	7SLV	0.00	17SLV	0.00	1SLV
-39Max	0.00	1SLV	0.00	1SLV	0.00	13SLV	0.00	21SLV	0.00	3SLV	0.00	1SLV
-39Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	3SLV	0.00	33SLU	0.00	1SLV
-38Max	0.00	1SLV	0.00	1SLV	-0.00	3SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV

Relazione di calcolo

-38	Min.	0.00	1SLV	0.00	1SLV	-0.00	21SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-37	Max	0.00	1SLV	0.00	1SLV	0.00	3SLV	0.00	13SLV	0.00	17SLV	0.00	1SLV
-37	Min.	0.00	1SLV	0.00	1SLV	-0.00	21SLV	0.00	27SLV	0.00	7SLV	0.00	1SLV
-36	Max	0.00	1SLV	0.00	1SLV	0.00	5SLV	0.00	29SLV	0.00	1SLV	0.00	1SLV
-36	Min.	0.00	1SLV	0.00	1SLV	-0.01	19SLV	0.00	11SLV	0.00	23SLV	0.00	1SLV
-35	Max	0.00	1SLV	0.00	1SLV	0.00	5SLV	0.00	29SLV	0.00	19SLV	0.00	1SLV
-35	Min.	0.00	1SLV	0.00	1SLV	-0.01	19SLV	0.00	11SLV	0.00	5SLV	0.00	1SLV
-34	Max	0.00	1SLV	0.00	1SLV	0.00	9SLV	0.00	31SLV	0.00	33SLU	0.00	1SLV
-34	Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	9SLV	0.00	11SLV	0.00	1SLV
-33	Max	0.00	1SLV	0.00	1SLV	0.00	9SLV	0.00	19SLV	0.00	5SLV	0.00	1SLV
-33	Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	5SLV	0.00	19SLV	0.00	1SLV
-32	Max	0.00	1SLV	0.00	1SLV	-0.00	9SLV	0.00	31SLV	0.00	17SLV	0.00	1SLV
-32	Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	9SLV	0.00	7SLV	0.00	1SLV
-31	Max	0.00	1SLV	0.00	1SLV	0.00	1SLV	0.00	23SLV	0.00	23SLV	0.00	1SLV
-31	Min.	0.00	1SLV	0.00	1SLV	-0.00	23SLV	0.00	1SLV	0.00	1SLV	0.00	1SLV
-30	Max	0.00	1SLV	0.00	1SLV	-0.00	25SLV	0.00	13SLV	0.00	21SLV	0.00	1SLV
-30	Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	27SLV	0.00	3SLV	0.00	1SLV
-29	Max	0.00	1SLV	0.00	1SLV	-0.00	25SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-29	Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	25SLV	0.00	7SLV	0.00	1SLV
-28	Max	0.00	1SLV	0.00	1SLV	0.00	27SLV	0.00	15SLV	0.00	7SLV	0.00	1SLV
-28	Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	25SLV	0.00	17SLV	0.00	1SLV
-27	Max	0.00	1SLV	0.00	1SLV	0.00	25SLV	0.00	13SLV	0.00	25SLV	0.00	1SLV
-27	Min.	0.00	1SLV	0.00	1SLV	-0.00	33SLU	0.00	27SLV	0.00	15SLV	0.00	1SLV
-26	Max	0.00	1SLV	0.00	1SLV	0.00	17SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-26	Min.	0.00	1SLV	0.00	1SLV	-0.00	7SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-25	Max	0.00	1SLV	0.00	1SLV	0.00	17SLV	0.00	15SLV	0.00	3SLV	0.00	1SLV
-25	Min.	0.00	1SLV	0.00	1SLV	-0.00	7SLV	0.00	25SLV	0.00	21SLV	0.00	1SLV
-24	Max	0.00	1SLV	0.00	1SLV	0.00	5SLV	0.00	23SLV	0.00	1SLV	0.00	1SLV
-24	Min.	0.00	1SLV	0.00	1SLV	-0.01	19SLV	0.00	1SLV	0.00	23SLV	0.00	1SLV
-23	Max	0.00	1SLV	0.00	1SLV	0.00	5SLV	0.00	29SLV	0.00	19SLV	0.00	1SLV
-23	Min.	0.00	1SLV	0.00	1SLV	-0.01	19SLV	0.00	11SLV	0.00	5SLV	0.00	1SLV
-22	Max	0.00	1SLV	0.00	1SLV	0.00	9SLV	0.00	29SLV	0.00	19SLV	0.00	1SLV
-22	Min.	0.00	1SLV	0.00	1SLV	-0.00	31SLV	0.00	11SLV	0.00	5SLV	0.00	1SLV
-21	Max	0.00	1SLV	0.00	1SLV	0.00	11SLV	0.00	31SLV	0.00	17SLV	0.00	1SLV
-21	Min.	0.00	1SLV	0.00	1SLV	-0.00	29SLV	0.00	9SLV	0.00	7SLV	0.00	1SLV
-20	Max	0.00	1SLV	0.00	1SLV	0.00	9SLV	0.00	31SLV	0.00	17SLV	0.00	1SLV
-20	Min.	0.00	1SLV	0.00	1SLV	-0.00	31SLV	0.00	9SLV	0.00	7SLV	0.00	1SLV
-19	Max	0.00	1SLV	0.00	1SLV	0.00	1SLV	0.00	31SLV	0.00	17SLV	0.00	1SLV
-19	Min.	0.00	1SLV	0.00	1SLV	-0.00	23SLV	0.00	9SLV	0.00	7SLV	0.00	1SLV
-18	Max	0.00	1SLV	0.00	1SLV	0.00	27SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-18	Min.	0.00	1SLV	0.00	1SLV	-0.00	13SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-17	Max	0.00	1SLV	0.00	1SLV	0.00	25SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-17	Min.	0.00	1SLV	0.00	1SLV	-0.00	15SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-16	Max	0.00	1SLV	0.00	1SLV	0.00	25SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-16	Min.	0.00	1SLV	0.00	1SLV	-0.00	15SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-15	Max	0.00	1SLV	0.00	1SLV	0.00	27SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-15	Min.	0.00	1SLV	0.00	1SLV	-0.00	13SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-14	Max	0.00	1SLV	0.00	1SLV	0.00	25SLV	0.00	15SLV	0.00	17SLV	0.00	1SLV
-14	Min.	0.00	1SLV	0.00	1SLV	-0.00	15SLV	0.00	25SLV	0.00	7SLV	0.00	1SLV
-13	Max	0.00	1SLV	0.00	1SLV	0.00	17SLV	0.00	3SLV	0.00	13SLV	0.00	1SLV
-13	Min.	0.00	1SLV	0.00	1SLV	-0.00	7SLV	0.00	21SLV	0.00	27SLV	0.00	1SLV
-12	Max	0.00	1SLV	0.00	1SLV	0.00	5SLV	0.00	5SLV	0.00	1SLV	0.00	1SLV
-12	Min.	0.00	1SLV	0.00	1SLV	-0.00	19SLV	0.00	19SLV	0.00	23SLV	0.00	1SLV
-11	Max	0.00	1SLV	0.00	1SLV	0.00	11SLV	0.00	5SLV	0.00	1SLV	0.00	1SLV
-11	Min.	0.00	1SLV	0.00	1SLV	-0.00	29SLV	0.00	19SLV	0.00	23SLV	0.00	1SLV
-10	Max	0.00	1SLV	0.00	1SLV	0.00	9SLV	0.00	1SLV	0.00	23SLV	0.00	1SLV
-10	Min.	0.00	1SLV	0.00	1SLV	-0.00	31SLV	0.00	23SLV	0.00	1SLV	0.00	1SLV
-9	Max	0.00	1SLV	0.00	1SLV	0.00	11SLV	0.00	21SLV	0.00	23SLV	0.00	1SLV
-9	Min.	0.00	1SLV	0.00	1SLV	-0.00	29SLV	0.00	3SLV	0.00	1SLV	0.00	1SLV
-8	Max	0.00	1SLV	0.00	1SLV	0.00	9SLV	0.00	9SLV	0.00	1SLV	0.00	1SLV
-8	Min.	0.00	1SLV	0.00	1SLV	-0.00	31SLV	0.00	31SLV	0.00	23SLV	0.00	1SLV
-7	Max	0.00	1SLV	0.00	1SLV	0.00	9SLV	0.00	1SLV	0.00	21SLV	0.00	1SLV
-7	Min.	0.00	1SLV	0.00	1SLV	-0.00	31SLV	0.00	23SLV	0.00	3SLV	0.00	1SLV
-6	Max	0.00	1SLV	0.00	1SLV	0.00	25SLV	0.00	21SLV	0.00	21SLV	0.00	1SLV
-6	Min.	0.00	1SLV	0.00	1SLV	-0.00	15SLV	0.00	3SLV	0.00	3SLV	0.00	1SLV
-5	Max	0.00	1SLV	0.00	1SLV	0.00	25SLV	0.00	25SLV	0.00	3SLV	0.00	1SLV
-5	Min.	0.00	1SLV	0.00	1SLV	-0.00	15SLV	0.00	15SLV	0.00	21SLV	0.00	1SLV
-4	Max	0.00	1SLV	0.00	1SLV	0.00	27SLV	0.00	1SLV	0.00	21SLV	0.00	1SLV
-4	Min.	0.00	1SLV	0.00	1SLV	-0.00	13SLV	0.00	23SLV	0.00	3SLV	0.00	1SLV
-3	Max	0.00	1SLV	0.00	1SLV	0.00	25SLV	0.00	27SLV	0.00	27SLV	0.00	1SLV
-3	Min.	0.00	1SLV	0.00	1SLV	-0.00	15SLV	0.00	13SLV	0.00	13SLV	0.00	1SLV
-2	Max	0.00	1SLV	0.00	1SLV	0.00	25SLV	0.00	17SLV	0.00	3SLV	0.00	1SLV
-2	Min.	0.00	1SLV	0.00	1SLV	-0.00	15SLV	0.00	7SLV	0.00	21SLV	0.00	1SLV
-1	Max	0.00	1SLV	0.00	1SLV	0.00	17SLV	0.00	17SLV	0.00	3SLV	0.00	1SLV
-1	Min.	0.00	1SLV	0.00	1SLV	-0.00	7SLV	0.00	7SLV	0.00	21SLV	0.00	1SLV
2	Max	0.03	19SLV	0.02	25SLV	0.00	13SLV	0.00	15SLV	0.00	19SLV	0.00	11SLV
2	Min.	-0.03	5SLV	-0.02	15SLV	-0.01	27SLV	0.00	25SLV	0.00	5SLV	0.00	29SLV
3	Max	0.03	1SLV	0.02	25SLV	0.00	25SLV	0.00	15SLV	0.00	19SLV	0.00	11SLV
3	Min.	-0.03	23SLV	-0.02	15SLV	-0.01	15SLV	0.00	25SLV	0.00	5SLV	0.00	29SLV

Relazione di calcolo

4	Max	0.03	19	SLV	0.02	25	SLV	0.00	7	SLV	0.00	15	SLV	0.00	19	SLV	0.00	11	SLV
4	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.01	17	SLV	0.00	25	SLV	0.00	5	SLV	0.00	29	SLV
5	Max	0.03	19	SLV	0.02	25	SLV	0.00	7	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
5	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.01	17	SLV	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
6	Max	0.03	19	SLV	0.02	25	SLV	0.00	3	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
6	Min.	-0.03	5	SLV	-0.02	15	SLV	-0.01	21	SLV	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
7	Max	0.03	19	SLV	0.02	11	SLV	0.00	29	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
7	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.01	11	SLV	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
8	Max	0.03	19	SLV	0.02	11	SLV	0.00	19	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
8	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.01	5	SLV	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
9	Max	0.03	19	SLV	0.02	11	SLV	0.00	23	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
9	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.01	1	SLV	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
10	Max	0.03	19	SLV	0.02	11	SLV	0.00	23	SLV	0.00	29	SLV	0.00	19	SLV	0.00	11	SLV
10	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.01	1	SLV	0.00	11	SLV	0.00	5	SLV	0.00	29	SLV
11	Max	0.03	19	SLV	0.02	11	SLV	0.00	19	SLV	0.00	29	SLV	0.00	19	SLV	0.00	11	SLV
11	Min.	-0.03	5	SLV	-0.02	29	SLV	-0.01	5	SLV	0.00	11	SLV	0.00	5	SLV	0.00	29	SLV
12	Max	0.03	1	SLV	0.02	25	SLV	0.00	21	SLV	0.00	15	SLV	0.00	19	SLV	0.00	11	SLV
12	Min.	-0.03	23	SLV	-0.02	15	SLV	-0.01	3	SLV	0.00	25	SLV	0.00	5	SLV	0.00	29	SLV
13	Max	0.03	1	SLV	0.02	25	SLV	0.00	27	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
13	Min.	-0.03	23	SLV	-0.02	15	SLV	-0.01	13	SLV	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
14	Max	0.03	1	SLV	0.02	25	SLV	0.00	17	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
14	Min.	-0.03	23	SLV	-0.02	15	SLV	-0.01	7	SLV	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
15	Max	0.03	1	SLV	0.02	25	SLV	0.00	21	SLV	0.00	15	SLV	0.00	17	SLV	0.00	11	SLV
15	Min.	-0.03	23	SLV	-0.02	15	SLV	-0.01	3	SLV	0.00	25	SLV	0.00	7	SLV	0.00	29	SLV
16	Max	0.03	1	SLV	0.02	11	SLV	0.00	9	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
16	Min.	-0.03	23	SLV	-0.02	29	SLV	-0.01	31	SLV	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
17	Max	0.03	1	SLV	0.02	11	SLV	0.00	1	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
17	Min.	-0.03	23	SLV	-0.02	29	SLV	-0.01	23	SLV	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
18	Max	0.03	1	SLV	0.02	11	SLV	0.00	5	SLV	0.00	31	SLV	0.00	19	SLV	0.00	11	SLV
18	Min.	-0.03	23	SLV	-0.02	29	SLV	-0.01	19	SLV	0.00	9	SLV	0.00	5	SLV	0.00	29	SLV
19	Max	0.03	1	SLV	0.02	11	SLV	0.00	5	SLV	0.00	29	SLV	0.00	19	SLV	0.00	11	SLV
19	Min.	-0.03	23	SLV	-0.02	29	SLV	-0.01	19	SLV	0.00	11	SLV	0.00	5	SLV	0.00	29	SLV
20	Max	0.03	1	SLV	0.02	11	SLV	0.00	1	SLV	0.00	29	SLV	0.00	19	SLV	0.00	11	SLV
20	Min.	-0.03	23	SLV	-0.02	29	SLV	-0.01	23	SLV	0.00	11	SLV	0.00	5	SLV	0.00	29	SLV

Min = -0.03

Max = 0.03

Reazioni vincolari

Simbologia

Nodo=Numero del nodo

CC =Numero della combinazione delle condizioni di carico elementari

TCC =Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

SLE F = Stato limite d'esercizio, combinazione frequente

SLE Q = Stato limite d'esercizio, combinazione quasi permanente

SLD = Stato limite di danno

SLV = Stato limite di salvaguardia della vita

SLC = Stato limite di prevenzione del collasso

SLO = Stato limite di operatività

SLU I = Stato limite di resistenza al fuoco

SND = Stato limite di salvaguardia della vita (non dissipativo)

Fx =Reazione vincolare (forza) in dir. X

Fy =Reazione vincolare (forza) in dir. Y

Fz =Reazione vincolare (forza) in dir. Z

Mx =Reazione vincolare (momento) intorno all'asse X

My =Reazione vincolare (momento) intorno all'asse Y

Mz =Reazione vincolare (momento) intorno all'asse Z

Nodo		CC	TCC	Fx <daN>	CC	TCC	Fy <daN>	CC	TCC	Fz <daN>	CC	TCC	Mx <daNm>	CC	TCC	My <daNm>	CC	TCC	Mz <daNm>
-96	Max	19	SND	0.00	31	SND	0.00	25	SND	0.00	11	SND	0.00	31	SND	0.00	5	SND	0.00
-96	Min	5	SND	0.00	33	SLU	0.00	15	SND	0.00	33	SLU	0.00	33	SLU	0.00	1	SLV	0.00
-95	Max	19	SND	0.00	23	SND	-0.00	23	SND	0.00	25	SND	0.00	17	SND	0.00	19	SND	0.00
-95	Min	5	SND	0.00	33	SLU	-0.00	1	SND	0.00	33	SLU	0.00	33	SLU	0.00	1	SLV	0.00
-94	Max	3	SND	0.00	31	SND	-0.00	7	SND	0.00	33	SLU	0.00	33	SLU	0.00	5	SND	0.00
-94	Min	21	SND	0.00	33	SLU	-0.00	17	SND	0.00	17	SND	0.00	19	SND	0.00	1	SLV	0.00
-93	Max	5	SND	0.00	7	SND	0.00	33	SLU	0.00	3	SND	0.00	23	SND	0.00	5	SND	0.00
-93	Min	33	SLU	0.00	33	SLU	-0.00	11	SND	0.00	33	SLU	0.00	19	SND	0.00	1	SLV	0.00
-92	Max	17	SND	0.00	29	SND	0.00	33	SLU	0.00	11	SND	0.00	13	SND	0.00	19	SND	0.00
-92	Min	7	SND	0.00	33	SLU	-0.00	1	SND	0.00	33	SLU	0.00	27	SND	0.00	1	SLV	0.00
-91	Max	7	SND	0.00	19	SND	0.00	19	SND	0.00	11	SND	0.00	33	SLU	0.00	7	SND	0.00
-91	Min	17	SND	0.00	33	SLU	-0.00	5	SND	0.00	29	SND	0.00	17	SND	0.00	1	SLV	0.00
-90	Max	7	SND	0.00	15	SND	0.00	33	SLU	0.00	15	SND	0.00	29	SND	0.00	5	SND	0.00
-90	Min	33	SLU	0.00	33	SLU	0.00	13	SND	0.00	33	SLU	0.00	19	SND	0.00	1	SLV	0.00
-89	Max	3	SND	0.00	13	SND	0.00	33	SLU	0.00	15	SND	0.00	17	SND	0.00	17	SND	0.00
-89	Min	33	SLU	0.00	33	SLU	0.00	29	SND	0.00	33	SLU	0.00	33	SLU	0.00	1	SLV	0.00

Relazione di calcolo

-88	Max	7	SND	0.00	13	SND	0.00	29	SND	0.00	31	SND	0.00	33	SLU	0.00	5	SND	0.00
-88	Min	17	SND	0.00	33	SLU	0.00	11	SND	0.00	33	SLU	0.00	19	SND	0.00	1	SLV	0.00
-87	Max	33	SLU	0.00	15	SND	0.00	33	SLU	0.00	29	SND	0.00	33	SLU	0.00	15	SND	0.00
-87	Min	17	SND	0.00	33	SLU	0.00	15	SND	0.00	11	SND	0.00	33	SLU	0.00	1	SLV	0.00
-86	Max	17	SND	0.00	3	SND	0.00	11	SND	0.00	9	SND	0.00	11	SND	0.00	23	SND	0.00
-86	Min	7	SND	0.00	33	SLU	-0.00	29	SND	0.00	33	SLU	0.00	33	SLU	0.00	1	SLV	0.00
-85	Max	7	SND	0.00	15	SND	0.00	3	SND	0.00	33	SLU	0.00	5	SND	0.00	25	SND	0.00
-85	Min	17	SND	0.00	33	SLU	0.00	33	SLU	0.00	29	SND	0.00	19	SND	0.00	1	SLV	0.00
-84	Max	17	SND	0.00	33	SLU	0.00	7	SND	0.00	21	SND	0.00	23	SND	0.00	5	SND	0.00
-84	Min	7	SND	0.00	23	SND	0.00	33	SLU	0.00	3	SND	0.00	33	SLU	0.00	1	SLV	0.00
-83	Max	5	SND	582.70	31	SND	96.45	25	SND	0.00	29	SND	0.00	17	SND	0.00	1	SND	6.22
-83	Min	19	SND	-737.45	9	SND	-97.04	33	SLU	0.00	11	SND	0.00	23	SND	0.00	1	SLV	-1.27
-82	Max	5	SND	576.59	31	SND	41.74	33	SLU	0.00	11	SND	0.00	19	SND	0.00	11	SND	0.27
-82	Min	19	SND	-745.85	9	SND	-41.95	19	SND	0.00	29	SND	0.00	29	SND	0.00	1	SLV	-0.25
-81	Max	5	SND	743.73	29	SND	39.99	29	SND	0.00	29	SND	0.00	23	SND	0.00	17	SND	0.00
-81	Min	19	SND	-722.18	11	SND	-39.70	11	SND	0.00	11	SND	0.00	7	SND	0.00	1	SLV	0.00
-80	Max	5	SND	1007.11	29	SND	107.53	11	SND	0.00	27	SND	0.00	3	SND	0.00	5	SND	13.60
-80	Min	19	SND	-952.41	11	SND	-106.70	29	SND	0.00	13	SND	0.00	21	SND	0.00	1	SLV	-6.00
-79	Max	5	SND	199.40	13	SND	21.34	19	SND	0.00	25	SND	0.00	23	SND	0.00	9	SND	0.32
-79	Min	19	SND	-193.63	27	SND	-21.01	33	SLU	0.00	15	SND	0.00	31	SND	0.00	1	SLV	-0.26
-78	Max	5	SND	162.17	13	SND	18.78	13	SND	0.00	29	SND	0.00	19	SND	0.00	15	SND	0.19
-78	Min	19	SND	-156.92	27	SND	-18.58	27	SND	0.00	11	SND	0.00	25	SND	0.00	1	SLV	-0.22
-77	Max	5	SND	393.68	13	SND	87.10	15	SND	0.00	13	SND	0.00	19	SND	0.00	7	SND	-2.88
-77	Min	19	SND	-423.08	27	SND	-86.49	33	SLU	0.00	27	SND	0.00	33	SLU	0.00	1	SLV	-9.09
-76	Max	5	SND	224.50	15	SND	22.98	34	SLE R	0.00	11	SND	0.00	7	SND	0.00	15	SND	0.19
-76	Min	19	SND	-217.23	25	SND	-22.89	33	SLU	0.00	29	SND	0.00	25	SND	0.00	1	SLV	-0.22
-75	Max	5	SND	273.11	13	SND	25.40	21	SND	0.00	17	SND	0.00	1	SND	0.00	25	SND	0.71
-75	Min	19	SND	-159.61	27	SND	-25.72	33	SLU	0.00	7	SND	0.00	23	SND	0.00	1	SLV	-0.69
-74	Max	5	SND	418.89	13	SND	68.95	13	SND	0.00	27	SND	0.00	23	SND	0.00	21	SND	36.35
-74	Min	19	SND	-147.89	27	SND	-69.65	27	SND	0.00	13	SND	0.00	3	SND	0.00	1	SLV	5.87
-73	Max	7	SND	0.00	13	SND	0.00	23	SND	0.00	33	SLU	0.00	13	SND	0.00	17	SND	0.00
-73	Min	17	SND	-0.00	27	SND	0.00	1	SND	0.00	9	SND	0.00	33	SLU	0.00	1	SLV	0.00
-72	Max	19	SND	0.00	11	SND	0.00	17	SND	0.00	3	SND	0.00	5	SND	0.00	23	SND	0.00
-72	Min	5	SND	-0.01	29	SND	-0.00	7	SND	0.00	21	SND	0.00	19	SND	0.00	1	SLV	0.00
-71	Max	5	SND	28.76	31	SND	181.85	5	SND	0.00	11	SND	0.00	19	SND	0.00	19	SND	6.44
-71	Min	19	SND	-53.23	9	SND	-182.90	33	SLU	0.00	29	SND	0.00	5	SND	0.00	1	SLV	-1.30
-70	Max	33	SLU	0.01	33	SLU	0.02	33	SLU	0.00	29	SND	0.00	33	SLU	0.00	19	SND	0.00
-70	Min	23	SND	0.00	29	SND	0.01	13	SND	0.00	11	SND	0.00	5	SND	0.00	1	SLV	0.00
-69	Max	7	SND	-0.00	33	SLU	0.02	33	SLU	0.00	27	SND	0.00	5	SND	0.00	19	SND	0.00
-69	Min	33	SLU	-0.00	31	SND	0.01	13	SND	0.00	13	SND	0.00	33	SLU	0.00	1	SLV	0.00
-68	Max	1	SND	-8.06	29	SND	164.12	29	SND	0.00	33	SLU	0.00	23	SND	0.00	7	SND	10.89
-68	Min	23	SND	-21.52	11	SND	-162.62	33	SLU	0.00	27	SND	0.00	17	SND	0.00	1	SLV	-4.81
-67	Max	33	SLU	0.00	33	SLU	0.01	33	SLU	0.00	5	SND	0.00	7	SND	0.00	17	SND	0.00
-67	Min	19	SND	0.00	29	SND	0.01	23	SND	0.00	19	SND	0.00	17	SND	0.00	1	SLV	0.00
-66	Max	7	SND	0.00	33	SLU	0.01	33	SLU	0.00	9	SND	0.00	33	SLU	0.00	17	SND	0.00
-66	Min	17	SND	-0.00	15	SND	0.01	13	SND	0.00	31	SND	0.00	7	SND	0.00	1	SLV	0.00
-65	Max	5	SND	54.17	13	SND	159.79	13	SND	0.00	31	SND	0.00	17	SND	0.00	7	SND	-2.39
-65	Min	19	SND	-4.14	27	SND	-158.63	33	SLU	0.00	9	SND	0.00	17	SND	0.00	1	SLV	-7.11
-64	Max	33	SLU	0.00	33	SLU	0.01	29	SND	0.00	27	SND	0.00	15	SND	0.00	17	SND	0.00
-64	Min	19	SND	0.00	13	SND	0.01	33	SLU	0.00	33	SLU	0.00	33	SLU	0.00	1	SLV	0.00
-63	Max	3	SND	-0.00	25	SND	0.01	33	SLU	0.00	33	SLU	0.00	33	SLU	0.00	17	SND	0.00
-63	Min	33	SLU	-0.00	15	SND	0.01	15	SND	0.00	13	SND	0.00	7	SND	0.00	1	SLV	0.00
-62	Max	1	SND	-42.15	13	SND	160.72	3	SND	0.00	29	SND	0.00	7	SND	0.00	7	SND	29.64
-62	Min	23	SND	-112.61	27	SND	-162.40	33	SLU	0.00	11	SND	0.00	17	SND	0.00	1	SLV	4.76
-61	Max	7	SND	0.00	13	SND	0.00	27	SND	0.00	19	SND	0.00	3	SND	0.00	3	SND	0.00
-61	Min	17	SND	-0.00	27	SND	0.00	33	SLU	0.00	5	SND	0.00	33	SLU	0.00	1	SLV	0.00
-60	Max	19	SND	0.00	11	SND	0.00	33	SLU	0.00	5	SND	0.00	7	SND	0.00	19	SND	0.00
-60	Min	5	SND	-0.01	29	SND	-0.00	23	SND	0.00	19	SND	0.00	33	SLU	0.00	1	SLV	0.00
-59	Max	5	SND	28.16	31	SND	285.25	33	SLU	0.00	11	SND	0.00	5	SND	0.00	19	SND	0.52
-59	Min	19	SND	-37.07	9	SND	-286.90	1	SND	0.00	29	SND	0.00	19	SND	0.00	1	SLV	-0.11
-58	Max	33	SLU	0.01	29	SND	-0.00	1	SND	0.00	3	SND	0.00	19	SND	0.00	33	SLU	0.00
-58	Min	23	SND	0.00	33	SLU	-0.00	23	SND	0.00	21	SND	0.00	33	SLU	0.00	1	SLV	0.00
-57	Max	17	SND	0.00	31	SND	-0.00	33	SLU	0.00	11	SND	0.00	19	SND	0.00	23	SND	0.00
-57	Min	33	SLU	0.00	33	SLU	-0.00	15	SND	0.00	29	SND	0.00	33	SLU	0.00	1	SLV	0.00
-56	Max	5	SND	43.65	29	SND	257.44	11	SND	0.00	31	SND	0.00	7	SND	0.00	17	SND	2.29
-56	Min	19	SND	-42.14	11	SND	-255.10	29	SND	0.00	9	SND	0.00	17	SND	0.00	1	SLV	-5.18
-55	Max	33	SLU	0.00	29	SND	-0.00	5	SND	0.00	33	SLU	0.00	25	SND	0.00	33	SLU	0.00
-55	Min	1	SND	0.00	33	SLU	-0.00	19	SND	0.00	27	SND	0.00	15	SND	0.00	1	SLV	0.00
-54	Max	19	SND	0.00	13	SND	-0.00	5	SND	0.00	3	SND	0.00	15	SND	0.00	13	SND	0.00
-54	Min	33	SLU	0.00	33	SLU	-0.00	33	SLU	0.00	33	SLU	0.00	34	SLE R	0.00	1	SLV	0.00
-53	Max	5	SND	48.82	13	SND	250.66	33	SLU	0.00	31	SND	0.00	3	SND	0.00	17	SND	3.58
-53	Min	19	SND	-47.60	27	SND	-248.84	13	SND	0.00	9	SND	0.00	33	SLU	0.00	1	SLV	1.20
-52	Max	33	SLU	0.00	13	SND	-0.00	33	SLU	0.00	23	SND	0.00	33	SLU	0.00	33	SLU	0.00
-52	Min	11	SND	0.00	33	SLU	-0.00	7	SND	0.00	1	SND	0.00	9	SND	0.00	1	SLV	0.00
-51	Max	33	SLU	0.00	13	SND	-0.00	13	SND	0.00	33	SLU	0.00	21	SND	0.00	13	SND	0.00
-51	Min	3	SND	0.00	33	SLU	-0.00	33	SLU	0.00	29	SND	0.00	33	SLU	0.00	1	SLV	0.00
-50	Max	5	SND	45.66	13	SND	252.11	21	SND	0.00	31	SND	0.00	21	SND	0.00	17	SND	-2.16
-50	Min	19	SND	-25.08	27	SND	-254.75	33	SLU	0.00	9	SND	0.00	7	SND	0.00	1	SLV	-13.44
-49	Max	7	SND	0.00	15	SND	0.00	33	SLU	0.00	1	SND	0.00	33	SLU	0.00	7	SND	0.00

Relazione di calcolo

-49Min	17	SND	-0.001	25SND	-0.001	19SND	0.003	33SLU	0.002	23SND	0.001	1SLV	0.00
-48Max	19	SND	0.001	11SND	0.001	1SND	0.001	1SND	0.002	23SND	0.005	5SND	0.00
-48Min	5	SND	-0.001	29SND	-0.002	23SND	0.002	23SND	0.003	33SLU	0.001	1SLV	0.00
-47Max	7	SND	32.363	31SND	488.443	33SLU	0.002	27SND	0.005	5SND	0.001	19SND	0.51
-47Min	17	SND	-43.169	1SND	-491.285	5SND	0.001	13SND	0.001	19SND	0.001	1SLV	-0.10
-46Max	33	SLU	0.001	11SND	-0.003	33SLU	0.002	29SND	0.003	33SLU	0.003	33SLU	0.00
-46Min	5	SND	0.003	33SLU	-0.009	5SND	0.003	33SLU	0.005	5SND	0.001	1SLV	0.00
-45Max	33	SLU	0.001	11SND	-0.003	33SLU	0.003	33SLU	0.003	3SND	0.007	7SND	0.00
-45Min	29	SND	0.003	33SLU	-0.003	34SLE R	0.005	5SND	0.003	33SLU	0.001	1SLV	0.00
-44Max	5	SND	52.022	29SND	440.833	33SLU	0.003	31SND	0.002	21SND	0.001	17SND	2.26
-44Min	19	SND	-49.601	11SND	-436.833	3SND	0.009	9SND	0.007	7SND	0.001	1SLV	-5.13
-43Max	33	SLU	0.009	5SND	-0.001	1SND	0.003	33SLU	0.003	33SLU	0.003	33SLU	0.00
-43Min	9	SND	0.003	33SLU	-0.003	33SLU	0.002	21SND	0.001	19SND	0.001	1SLV	0.00
-42Max	17	SND	0.001	17SND	-0.005	5SND	0.003	33SLU	0.001	1SND	0.001	1SND	0.00
-42Min	33	SLU	0.003	33SLU	-0.003	33SLU	0.002	29SND	0.003	33SLU	0.001	1SLV	0.00
-41Max	5	SND	56.831	13SND	429.213	33SLU	0.003	31SND	0.007	7SND	0.001	17SND	3.54
-41Min	19	SND	-56.422	27SND	-426.111	13SND	0.009	9SND	0.001	17SND	0.001	1SLV	1.19
-40Max	13	SND	0.002	25SND	-0.001	15SND	0.003	33SLU	0.003	31SND	0.003	33SLU	0.00
-40Min	33	SLU	0.003	33SLU	-0.003	33SLU	0.002	21SND	0.003	33SLU	0.001	1SLV	0.00
-39Max	33	SLU	0.003	3SND	-0.003	33SLU	0.001	13SND	0.001	13SND	0.003	3SND	0.00
-39Min	3	SND	0.003	33SLU	-0.003	31SND	0.002	27SND	0.003	33SLU	0.001	1SLV	0.00
-38Max	5	SND	56.201	13SND	431.717	1SND	0.001	11SND	0.007	7SND	0.001	17SND	-2.13
-38Min	19	SND	-28.162	27SND	-436.231	17SND	0.002	29SND	0.001	17SND	0.001	1SLV	-13.30
-37Max	7	SND	0.001	15SND	0.005	5SND	0.002	23SND	0.003	33SLU	0.002	25SND	0.00
-37Min	17	SND	-0.001	25SND	-0.001	19SND	0.003	33SLU	0.003	33SLU	0.001	1SLV	0.00
-36Max	1	SND	0.001	11SND	0.003	33SLU	0.001	19SND	0.002	23SND	0.002	29SND	0.00
-36Min	23	SND	-0.001	29SND	-0.007	7SND	0.005	5SND	0.001	11SND	0.001	1SND	0.00
-35Max	23	SND	44.653	31SND	897.243	33SLU	0.001	13SND	0.001	15SND	0.005	5SND	1.28
-35Min	1	SND	-66.479	9SND	-902.463	31SND	0.002	27SND	0.003	33SLU	0.001	1SLV	-6.36
-34Max	33	SLU	0.019	5SND	-0.003	3SND	0.003	33SLU	0.003	33SLU	0.003	33SLU	0.00
-34Min	5	SND	0.003	33SLU	-0.003	33SLU	0.005	5SND	0.002	23SND	0.001	1SLV	0.00
-33Max	33	SLU	0.001	11SND	-0.009	9SND	0.005	5SND	0.003	3SND	0.002	21SND	0.00
-33Min	3	SND	0.003	33SLU	-0.003	31SND	0.001	19SND	0.003	33SLU	0.001	1SLV	0.00
-32Max	23	SND	61.472	29SND	809.779	9SND	0.001	15SND	0.001	17SND	0.001	17SND	3.70
-32Min	1	SND	-61.871	11SND	-802.423	33SLU	0.002	25SND	0.007	7SND	0.001	1SLV	-8.39
-31Max	23	SND	0.009	9SND	-0.003	33SLU	0.001	11SND	0.003	33SLU	0.003	33SLU	0.00
-31Min	1	SND	0.003	33SLU	-0.001	1SND	0.002	29SND	0.007	7SND	0.001	1SLV	0.00
-30Max	27	SND	0.002	25SND	-0.005	5SND	0.003	33SLU	0.002	23SND	0.002	21SND	0.00
-30Min	13	SND	0.003	33SLU	-0.003	33SLU	0.009	9SND	0.003	33SLU	0.001	1SLV	0.00
-29Max	23	SND	74.921	13SND	788.433	33SLU	0.009	9SND	0.002	23SND	0.001	17SND	5.37
-29Min	1	SND	-69.622	27SND	-782.741	13SND	0.003	31SND	0.007	7SND	0.001	1SLV	1.81
-28Max	21	SND	0.002	25SND	-0.001	15SND	0.002	25SND	0.001	11SND	0.003	33SLU	0.00
-28Min	3	SND	0.003	33SLU	-0.002	25SND	0.003	33SLU	0.003	33SLU	0.001	1SLV	0.00
-27Max	33	SLU	0.002	25SND	-0.003	33SLU	0.003	33SLU	0.001	13SND	0.002	21SND	0.00
-27Min	17	SND	0.003	33SLU	-0.002	25SND	0.001	17SND	0.003	33SLU	0.001	1SLV	0.00
-26Max	23	SND	57.011	13SND	793.023	33SLU	0.003	31SND	0.001	17SND	0.001	17SND	-3.49
-26Min	1	SND	-39.882	27SND	-801.339	9SND	0.009	9SND	0.007	7SND	0.001	1SLV	-21.75
-25Max	21	SND	0.001	15SND	0.003	33SLU	0.005	5SND	0.003	33SLU	0.001	15SND	0.00
-25Min	3	SND	-0.002	25SND	0.001	1SND	0.003	33SLU	0.002	25SND	0.001	1SLV	0.00
-24Max	1	SND	0.009	9SND	0.003	33SLU	0.002	27SND	0.005	5SND	0.009	9SND	0.00
-24Min	23	SND	-0.003	31SND	0.001	11SND	0.001	13SND	0.003	31SND	0.001	1SLV	0.00
-23Max	23	SND	591.863	31SND	608.362	23SND	0.002	27SND	0.001	19SND	0.005	5SND	1.33
-23Min	1	SND	-762.989	9SND	-611.891	1SND	0.001	13SND	0.001	19SND	0.001	1SLV	-6.61
-22Max	23	SND	568.843	31SND	42.041	15SND	0.002	25SND	0.001	1SND	0.002	29SND	0.00
-22Min	1	SND	-740.309	9SND	-42.252	25SND	0.001	15SND	0.002	23SND	0.001	1SLV	-0.00
-21Max	23	SND	735.882	29SND	40.001	11SND	0.001	11SND	0.003	3SND	0.002	21SND	0.00
-21Min	1	SND	-716.221	11SND	-39.692	29SND	0.002	29SND	0.002	21SND	0.001	1SLV	0.00
-20Max	23	SND	979.362	29SND	569.793	33SLU	0.001	11SND	0.001	1SND	0.001	17SND	2.69
-20Min	1	SND	-948.571	11SND	-564.751	17SND	0.002	29SND	0.002	23SND	0.001	1SLV	-5.90
-19Max	23	SND	197.301	13SND	21.352	21SND	0.003	31SND	0.002	23SND	0.009	9SND	0.32
-19Min	1	SND	-192.032	27SND	-21.003	3SND	0.009	9SND	0.003	31SND	0.001	1SLV	-0.26
-18Max	23	SND	160.641	13SND	18.789	9SND	0.003	31SND	0.001	1SND	0.001	15SND	0.19
-18Min	1	SND	-155.752	27SND	-18.573	31SND	0.009	9SND	0.002	25SND	0.001	1SLV	-0.22
-17Max	23	SND	423.451	13SND	537.133	33SLU	0.001	15SND	0.003	33SLU	0.003	3SND	3.66
-17Min	1	SND	-417.712	27SND	-533.259	9SND	0.002	25SND	0.002	21SND	0.001	1SLV	1.11
-16Max	23	SND	222.381	15SND	23.032	25SND	0.002	25SND	0.002	23SND	0.001	15SND	0.21
-16Min	1	SND	-215.622	25SND	-22.943	33SLU	0.001	15SND	0.002	25SND	0.001	1SLV	-0.25
-15Max	23	SND	270.131	15SND	25.973	33SLU	0.002	29SND	0.002	21SND	0.002	25SND	1.01
-15Min	1	SND	-157.312	25SND	-26.301	15SND	0.001	11SND	0.001	15SND	0.001	1SLV	-0.98
-14Max	23	SND	331.231	13SND	521.093	33SLU	0.001	11SND	0.002	23SND	0.001	17SND	-1.99
-14Min	1	SND	-176.102	27SND	-526.523	31SND	0.002	29SND	0.007	7SND	0.001	1SLV	-15.58
-13Max	21	SND	0.001	15SND	0.002	21SND	0.002	21SND	0.002	25SND	0.002	27SND	0.00
-13Min	3	SND	-0.002	25SND	0.003	33SLU	0.003	33SLU	0.003	33SLU	0.001	1SLV	0.00
-12Max	1	SND	0.001	1SND	0.001	1SND	0.001	17SND	0.001	17SND	0.005	5SND	0.00
-12Min	23	SND	0.002	23SND	0.003	33SLU	0.007	7SND	0.001	19SND	0.001	1SLV	0.00
-11Max	23	SND	0.005	5SND	-0.005	5SND	0.001	19SND	0.003	33SLU	0.001	1SND	0.00
-11Min	1	SND	0.003	33SLU	-0.003	33SLU	0.003	33SLU	0.002	23SND	0.001	1SLV	0.00
-10Max	5	SND	0.009	9SND	-0.003	33SLU	0.003	33SLU	0.001	17SND	0.002	23SND	0.00
-10Min	19	SND	0.003	33SLU	-0.002	25SND	0.002	25SND	0.003	33SLU	0.001	1SLV	0.00

Relazione di calcolo

-9Max	1	SND	0.00	5	SND	-0.00	33	SLU	0.00	25	SND	0.00	5	SND	0.00	23	SND	0.00
-9Min	23	SND	0.00	33	SLU	-0.00	23	SND	0.00	15	SND	0.00	19	SND	0.00	1	SLV	0.00
-8Max	7	SND	0.00	9	SND	-0.00	33	SLU	0.00	25	SND	0.00	7	SND	0.00	3	SND	0.00
-8Min	17	SND	0.00	33	SLU	-0.00	15	SND	0.00	15	SND	0.00	33	SLU	0.00	1	SLV	0.00
-7Max	3	SND	0.00	1	SND	-0.00	1	SND	0.00	33	SLU	0.00	3	SND	0.00	23	SND	0.00
-7Min	21	SND	0.00	33	SLU	-0.00	33	SLU	0.00	7	SND	0.00	21	SND	0.00	1	SLV	0.00
-6Max	3	SND	0.00	27	SND	-0.00	1	SND	0.00	27	SND	0.00	7	SND	0.00	21	SND	0.00
-6Min	21	SND	0.00	33	SLU	-0.00	23	SND	0.00	33	SLU	0.00	17	SND	0.00	1	SLV	0.00
-5Max	5	SND	0.00	25	SND	-0.00	33	SLU	0.00	33	SLU	0.00	11	SND	0.00	1	SND	0.00
-5Min	33	SLU	0.00	33	SLU	-0.00	25	SND	0.00	31	SND	0.00	33	SLU	0.00	1	SLV	0.00
-4Max	3	SND	0.00	17	SND	-0.00	13	SND	0.00	9	SND	0.00	33	SLU	0.00	21	SND	0.00
-4Min	33	SLU	0.00	33	SLU	-0.00	27	SND	0.00	31	SND	0.00	9	SND	0.00	1	SLV	0.00
-3Max	7	SND	0.00	25	SND	-0.00	27	SND	0.00	7	SND	0.00	5	SND	0.00	23	SND	0.00
-3Min	17	SND	0.00	33	SLU	-0.00	13	SND	0.00	33	SLU	0.00	19	SND	0.00	1	SLV	0.00
-2Max	3	SND	0.00	17	SND	0.00	3	SND	0.00	13	SND	0.00	33	SLU	0.00	3	SND	0.00
-2Min	21	SND	0.00	33	SLU	-0.00	33	SLU	0.00	27	SND	0.00	29	SND	0.00	1	SLV	0.00
-1Max	21	SND	0.00	25	SND	0.00	25	SND	0.00	31	SND	0.00	9	SND	0.00	25	SND	0.00
-1Min	3	SND	0.00	33	SLU	-0.00	33	SLU	0.00	9	SND	0.00	33	SLU	0.00	1	SLV	0.00

Tensioni sul terreno

Simbologia

Nodo=Numero del nodo

CC =Numero della combinazione delle condizioni di carico elementari

TCC =Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

SLE F = Stato limite d'esercizio, combinazione frequente

SLE Q = Stato limite d'esercizio, combinazione quasi permanente

SLE D = Stato limite di danno

SLV = Stato limite di salvaguardia della vita

SLC = Stato limite di prevenzione del collasso

SLO = Stato limite di operatività

SLU I = Stato limite di resistenza al fuoco

SND = Stato limite di salvaguardia della vita (non dissipativo)

σ_t =Tensione sul terreno

Nodo		CC	TCC	σ_t <daN/cm ² >	Nodo		CC	TCC	σ_t <daN/cm ² >	Nodo		CC	TCC	σ_t <daN/cm ² >	Nodo		CC	TCC	σ_t <daN/cm ² >
-96Max	33	SLU		0.33	-96Min.	23	SND		0.18	-95Max	33	SLU		0.34	-95Min.	31	SND		0.20
-94Max	33	SLU		0.32	-94Min.	29	SND		0.19	-93Max	33	SLU		0.31	-93Min.	31	SND		0.19
-92Max	33	SLU		0.34	-92Min.	29	SND		0.22	-91Max	33	SLU		0.35	-91Min.	29	SND		0.21
-90Max	33	SLU		0.34	-90Min.	13	SND		0.21	-89Max	33	SLU		0.32	-89Min.	15	SND		0.20
-88Max	33	SLU		0.29	-88Min.	15	SND		0.18	-87Max	33	SLU		0.31	-87Min.	15	SND		0.18
-86Max	33	SLU		0.32	-86Min.	13	SND		0.19	-85Max	33	SLU		0.33	-85Min.	13	SND		0.20
-84Max	33	SLU		0.45	-84Min.	23	SND		0.25	-83Max	33	SLU		0.51	-83Min.	23	SND		0.30
-82Max	33	SLU		0.42	-82Min.	29	SND		0.24	-81Max	33	SLU		0.44	-81Min.	31	SND		0.27
-80Max	33	SLU		0.46	-80Min.	29	SND		0.30	-79Max	33	SLU		0.48	-79Min.	19	SND		0.30
-78Max	33	SLU		0.47	-78Min.	15	SND		0.29	-77Max	33	SLU		0.44	-77Min.	15	SND		0.28
-76Max	33	SLU		0.42	-76Min.	13	SND		0.26	-75Max	33	SLU		0.40	-75Min.	15	SND		0.23
-74Max	33	SLU		0.49	-74Min.	13	SND		0.30	-73Max	33	SLU		0.45	-73Min.	3	SND		0.28
-72Max	33	SLU		0.48	-72Min.	23	SND		0.26	-71Max	33	SLU		0.50	-71Min.	23	SND		0.30
-70Max	33	SLU		0.31	-70Min.	29	SND		0.20	-69Max	33	SLU		0.31	-69Min.	31	SND		0.21
-68Max	33	SLU		0.46	-68Min.	29	SND		0.30	-67Max	33	SLU		0.38	-67Min.	19	SND		0.25
-66Max	33	SLU		0.38	-66Min.	13	SND		0.25	-65Max	33	SLU		0.44	-65Min.	13	SND		0.29
-64Max	33	SLU		0.33	-64Min.	15	SND		0.22	-63Max	33	SLU		0.33	-63Min.	15	SND		0.21
-62Max	33	SLU		0.49	-62Min.	13	SND		0.31	-61Max	33	SLU		0.48	-61Min.	3	SND		0.30
-60Max	33	SLU		0.47	-60Min.	23	SND		0.27	-59Max	33	SLU		0.50	-59Min.	23	SND		0.30
-58Max	33	SLU		0.12	-58Min.	29	SND		0.09	-57Max	33	SLU		0.13	-57Min.	19	SND		0.09
-56Max	33	SLU		0.46	-56Min.	29	SND		0.32	-55Max	33	SLU		0.27	-55Min.	19	SND		0.18
-54Max	33	SLU		0.27	-54Min.	15	SND		0.19	-53Max	33	SLU		0.44	-53Min.	13	SND		0.30
-52Max	33	SLU		0.22	-52Min.	15	SND		0.16	-51Max	33	SLU		0.22	-51Min.	13	SND		0.16
-50Max	33	SLU		0.49	-50Min.	3	SND		0.32	-49Max	33	SLU		0.48	-49Min.	3	SND		0.30
-48Max	33	SLU		0.47	-48Min.	23	SND		0.27	-47Max	33	SLU		0.50	-47Min.	23	SND		0.31
-46Max	33	SLU		0.04	-46Min.	29	SND		0.03	-45Max	5	SND		0.04	-45Min.	19	SND		0.03
-44Max	33	SLU		0.46	-44Min.	19	SND		0.32	-43Max	33	SLU		0.22	-43Min.	19	SND		0.15
-42Max	33	SLU		0.22	-42Min.	7	SND		0.16	-41Max	33	SLU		0.44	-41Min.	13	SND		0.32
-40Max	33	SLU		0.18	-40Min.	15	SND		0.13	-39Max	33	SLU		0.17	-39Min.	13	SND		0.13
-38Max	33	SLU		0.49	-38Min.	3	SND		0.33	-37Max	33	SLU		0.47	-37Min.	3	SND		0.30
-36Max	33	SLU		0.48	-36Min.	5	SND		0.26	-35Max	33	SLU		0.50	-35Min.	5	SND		0.30
-34Max	33	SLU		0.17	-34Min.	9	SND		0.12	-33Max	33	SLU		0.17	-33Min.	9	SND		0.12
-32Max	33	SLU		0.46	-32Min.	9	SND		0.31	-31Max	33	SLU		0.29	-31Min.	1	SND		0.20
-30Max	33	SLU		0.29	-30Min.	25	SND		0.20	-29Max	33	SLU		0.44	-29Min.	25	SND		0.30
-28Max	33	SLU		0.24	-28Min.	27	SND		0.17	-27Max	33	SLU		0.24	-27Min.	25	SND		0.17
-26Max	33	SLU		0.49	-26Min.	17	SND		0.32	-25Max	33	SLU		0.48	-25Min.	17	SND		0.30
-24Max	33	SLU		0.45	-24Min.	5	SND		0.24	-23Max	33	SLU		0.50	-23Min.	5	SND		0.28
-22Max	33	SLU		0.41	-22Min.	9	SND		0.25	-21Max	33	SLU		0.43	-21Min.	11	SND		0.26
-20Max	33	SLU		0.45	-20Min.	9	SND		0.29	-19Max	33	SLU		0.47	-19Min.	1	SND		0.29

Relazione di calcolo

-18	Max	33	SLU	0.46	-18	Min.	27	SND	0.29	-17	Max	33	SLU	0.43	-17	Min.	25	SND	0.27
-16	Max	33	SLU	0.41	-16	Min.	25	SND	0.25	-15	Max	33	SLU	0.40	-15	Min.	27	SND	0.24
-14	Max	33	SLU	0.49	-14	Min.	25	SND	0.29	-13	Max	33	SLU	0.46	-13	Min.	17	SND	0.27
-12	Max	33	SLU	0.33	-12	Min.	5	SND	0.17	-11	Max	33	SLU	0.33	-11	Min.	11	SND	0.20
-10	Max	33	SLU	0.31	-10	Min.	9	SND	0.19	-9	Max	33	SLU	0.30	-9	Min.	11	SND	0.19
-8	Max	33	SLU	0.33	-8	Min.	9	SND	0.21	-7	Max	33	SLU	0.34	-7	Min.	9	SND	0.21
-6	Max	33	SLU	0.33	-6	Min.	25	SND	0.20	-5	Max	33	SLU	0.31	-5	Min.	25	SND	0.19
-4	Max	33	SLU	0.29	-4	Min.	27	SND	0.17	-3	Max	33	SLU	0.30	-3	Min.	25	SND	0.18
-2	Max	33	SLU	0.32	-2	Min.	25	SND	0.19	-1	Max	33	SLU	0.33	-1	Min.	17	SND	0.20

Sollecitazioni aste

Simbologia

Asta=Numero dell'asta

N1 =Nodo1

N2 =Nodo2

X =Coordinata progressiva rispetto al nodo iniziale

N =Sforzo normale

CC =Numero della combinazione delle condizioni di carico elementari

Ty =Taglio in dir. Y

Mz =Momento flettente intorno all'asse Z

Tz =Taglio in dir. Z

My =Momento flettente intorno all'asse Y

Mx =Momento torcente intorno all'asse X

Tipo di combinazione di carico: SLV

Asta	N1	N2		X <cm>	N <daN>	CC	Ty <daN>	CC	Mz <daNm>	CC	Tz <daN>	CC	My <daNm>	CC	Mx <daNm>	CC
101	3	12	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	3	12	Max	100.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	3	12	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	3	12	Min.	100.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	12	14	Max	0.00	0.00	1	0.00	1	0.00	1	869.76	21	-32.92	3	0.22	25
101	12	14	Max	45.20									109.61	3		
101	12	14	Max	120.00	0.00	1	0.00	1	0.00	1	-804.24	21	-139.98	21	0.22	25
101	12	14	Min.	0.00	0.00	1	0.00	1	0.00	1	630.61	3	-179.29	21	-0.33	15
101	12	14	Min.	61.94									91.73	7		
101	12	14	Min.	120.00	0.00	1	0.00	1	0.00	1	-1043.40	3	-280.59	3	-0.33	15
101	14	13	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	14	13	Max	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	14	13	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	14	13	Min.	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	13	15	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	13	15	Max	80.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	13	15	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	13	15	Min.	80.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	15	17	Max	0.00	0.00	1	0.00	1	0.00	13	961.91	21	-95.44	3	0.16	25
101	15	17	Max	68.95									87.53	21		
101	15	17	Max	120.00	0.00	1	0.00	1	0.00	13	-712.09	21	-94.22	21	0.16	25
101	15	17	Min.	0.00	0.00	1	0.00	1	0.00	9	712.89	3	-244.11	21	-0.18	15
101	15	17	Min.	57.63									81.85	25		
101	15	17	Min.	120.00	0.00	1	0.00	1	0.00	9	-961.11	3	-244.37	3	-0.18	15
101	17	16	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	17	16	Max	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	17	16	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	17	16	Min.	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	16	18	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	16	18	Max	150.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	16	18	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	16	18	Min.	150.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	18	20	Max	0.00	0.00	1	0.00	1	0.00	1	1035.54	23	-97.37	1	0.32	29
101	18	20	Max	74.23									104.38	23		
101	18	20	Max	120.00	0.00	1	0.00	1	0.00	1	-638.46	23	-41.72	23	0.32	29
101	18	20	Min.	0.00	0.00	1	0.00	1	0.00	1	727.65	1	-279.96	23	-0.24	11
101	18	20	Min.	60.05									88.86	13		
101	18	20	Min.	120.00	0.00	1	0.00	1	0.00	1	-946.35	1	-228.59	1	-0.24	11
101	20	19	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	20	19	Max	160.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	20	19	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	20	19	Min.	160.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	2	4	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	2	4	Max	100.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	2	4	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	2	4	Min.	100.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	4	6	Max	0.00	0.00	1	0.00	1	0.00	1	873.56	7	-33.49	17	0.22	25
102	4	6	Max	45.27									109.47	17		
102	4	6	Max	120.00	0.00	1	0.00	1	0.00	1	-800.44	7	-137.70	7	0.22	25
102	4	6	Min.	0.00	0.00	1	0.00	1	0.00	1	631.57	17	-181.57	7	-0.33	15
102	4	6	Min.	62.18									91.80	21		

Relazione di calcolo

102	4	6Min.	120.00	0.00	1	0.00	1	0.00	1	-1042.43	17	-280.01	17	-0.33	15
102	6	-98Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	6	-98Max	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	6	-98Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	6	-98Min.	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	-98	5Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	-98	5Max	80.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	-98	5Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	-98	5Min.	80.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	5	8Max	0.00	0.00	1	0.00	1	0.00	13	963.09	7	-95.34	17	0.16	25
102	5	8Max	69.04									87.63	7		
102	5	8Max	120.00	0.00	1	0.00	1	0.00	13	-710.91	7	-93.51	7	0.16	25
102	5	8Min.	0.00	0.00	1	0.00	1	0.00	9	712.73	17	-244.82	7	-0.18	15
102	5	8Min.	57.68									81.83	13		
102	5	8Min.	120.00	0.00	1	0.00	1	0.00	9	-961.28	17	-244.47	17	-0.18	15
102	8	7Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	8	7Max	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	8	7Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	8	7Min.	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	7	9Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	7	9Max	150.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	7	9Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	7	9Min.	150.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	9	11Max	0.00	0.00	1	0.00	1	0.00	1	1037.26	5	-94.43	19	0.32	29
102	9	11Max	74.36									104.63	5		
102	9	11Max	120.00	0.00	1	0.00	1	0.00	1	-636.74	5	-40.68	5	0.32	29
102	9	11Min.	0.00	0.00	1	0.00	1	0.00	1	722.74	19	-281.00	5	-0.24	11
102	9	11Min.	59.86									88.87	25		
102	9	11Min.	120.00	0.00	1	0.00	1	0.00	1	-951.26	19	-231.54	19	-0.24	11
102	11	10Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	11	10Max	160.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	11	10Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	11	10Min.	160.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	3	-106Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	3	-106Max	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	3	-106Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	3	-106Min.	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-106	-105Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-106	-105Max	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-106	-105Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-106	-105Min.	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-105	-104Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-105	-104Max	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-105	-104Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-105	-104Min.	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-104	-103Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-104	-103Max	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-104	-103Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-104	-103Min.	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-103	2Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-103	2Max	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-103	2Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-103	2Min.	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	13	-107Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	13	-107Max	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	13	-107Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	13	-107Min.	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-107	-108Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-107	-108Max	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-107	-108Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-107	-108Min.	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-108	-109Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-108	-109Max	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-108	-109Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-108	-109Min.	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-109	-110Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-109	-110Max	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-109	-110Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-109	-110Min.	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-110	-98Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-110	-98Max	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-110	-98Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-110	-98Min.	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	16	-111Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	16	-111Max	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	16	-111Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	16	-111Min.	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-111	-112Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-111	-112Max	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1

Relazione di calcolo

105	-111	-112	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-111	-112	Min.	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-112	-113	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-112	-113	Max	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-112	-113	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-112	-113	Min.	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-113	-114	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-113	-114	Max	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-113	-114	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-113	-114	Min.	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-114	7	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-114	7	Max	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-114	7	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-114	7	Min.	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	19	-99	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	19	-99	Max	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	19	-99	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	19	-99	Min.	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-99	-100	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-99	-100	Max	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-99	-100	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-99	-100	Min.	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-100	-101	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-100	-101	Max	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-100	-101	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-100	-101	Min.	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-101	-102	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-101	-102	Max	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-101	-102	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-101	-102	Min.	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-102	10	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-102	10	Max	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-102	10	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-102	10	Min.	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1

Tipo di combinazione di carico: SND

Asta	N1	N2		X <cm>	N <daN>	CC	Ty <daN>	CC	Mz <daNm>	CC	Tz <daN>	CC	My <daNm>	CC	Mx <daNm>	CC
101	3	12	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	3	12	Max	100.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	3	12	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	3	12	Min.	100.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	12	14	Max	0.00	0.00	1	0.00	1	0.00	1	956.81	21	20.36	3	0.42	25
101	12	14	Max	38.96									126.26	3		
101	12	14	Max	120.00	0.00	1	0.00	1	0.00	1	-717.19	21	-88.80	21	0.42	25
101	12	14	Min.	0.00	0.00	1	0.00	1	0.00	1	543.55	3	-232.57	21	-0.53	15
101	12	14	Min.	58.78									92.26	27		
101	12	14	Min.	120.00	0.00	1	0.00	1	0.00	1	-1130.44	3	-331.77	3	-0.53	15
101	14	13	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	14	13	Max	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	14	13	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	14	13	Min.	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	13	15	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	13	15	Max	80.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	13	15	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	13	15	Min.	80.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	15	17	Max	0.00	0.00	1	0.00	1	0.00	13	1052.55	21	-41.32	3	0.28	25
101	15	17	Max	75.45									98.85	21		
101	15	17	Max	120.00	0.00	1	0.00	1	0.00	13	-621.45	21	-39.57	21	0.28	25
101	15	17	Min.	0.00	0.00	1	0.00	1	0.00	9	622.25	3	-298.23	21	-0.30	15
101	15	17	Min.	55.89									82.56	25		
101	15	17	Min.	120.00	0.00	1	0.00	1	0.00	9	-1051.75	3	-299.02	3	-0.30	15
101	17	16	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	17	16	Max	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	17	16	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	17	16	Min.	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	16	18	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	16	18	Max	150.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	16	18	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	16	18	Min.	150.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	18	20	Max	0.00	0.00	1	0.00	1	0.00	1	1147.60	23	-30.91	1	0.52	29
101	18	20	Max	82.27									125.61	23		
101	18	20	Max	120.00	0.00	1	0.00	1	0.00	1	-526.40	23	26.30	23	0.52	29
101	18	20	Min.	0.00	0.00	1	0.00	1	0.00	1	615.59	1	-346.43	23	-0.45	11
101	18	20	Min.	58.22									88.85	29		
101	18	20	Min.	120.00	0.00	1	0.00	1	0.00	1	-1058.41	1	-296.61	1	-0.45	11
101	20	19	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	20	19	Max	160.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1

Relazione di calcolo

101	20	19Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
101	20	19Min.	160.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	2	4Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	2	4Max	100.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	2	4Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	2	4Min.	100.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	4	6Max	0.00	0.00	1	0.00	1	0.00	1	961.64	7	20.40	17	0.42	25
102	4	6Max	38.96									126.27	17		
102	4	6Max	120.00	0.00	1	0.00	1	0.00	1	-712.36	7	-85.90	7	0.42	25
102	4	6Min.	0.00	0.00	1	0.00	1	0.00	1	543.48	17	-235.47	7	-0.53	15
102	4	6Min.	59.02									92.23	15		
102	4	6Min.	120.00	0.00	1	0.00	1	0.00	1	-1130.52	17	-331.82	17	-0.53	15
102	6	-98Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	6	-98Max	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	6	-98Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	6	-98Min.	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	-98	5Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	-98	5Max	80.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	-98	5Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	-98	5Min.	80.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	5	8Max	0.00	0.00	1	0.00	1	0.00	13	1054.22	7	-40.93	17	0.28	25
102	5	8Max	75.57									99.11	7		
102	5	8Max	120.00	0.00	1	0.00	1	0.00	13	-619.78	7	-38.57	7	0.28	25
102	5	8Min.	0.00	0.00	1	0.00	1	0.00	9	621.60	17	-299.23	7	-0.30	15
102	5	8Min.	55.94									82.53	13		
102	5	8Min.	120.00	0.00	1	0.00	1	0.00	9	-1052.40	17	-299.41	17	-0.30	15
102	8	7Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	8	7Max	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	8	7Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	8	7Min.	90.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	7	9Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	7	9Max	150.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	7	9Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	7	9Min.	150.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	9	11Max	0.00	0.00	1	0.00	1	0.00	1	1151.75	5	-26.52	19	0.52	29
102	9	11Max	82.56									126.55	5		
102	9	11Max	120.00	0.00	1	0.00	1	0.00	1	-522.25	5	28.79	5	0.52	29
102	9	11Min.	0.00	0.00	1	0.00	1	0.00	1	608.25	19	-348.91	5	-0.45	11
102	9	11Min.	58.05									88.90	9		
102	9	11Min.	120.00	0.00	1	0.00	1	0.00	1	-1065.74	19	-301.01	19	-0.45	11
102	11	10Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	11	10Max	160.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	11	10Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
102	11	10Min.	160.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	3	-106Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	3	-106Max	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	3	-106Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	3	-106Min.	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-106	-105Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-106	-105Max	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-106	-105Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-106	-105Min.	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-105	-104Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-105	-104Max	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-105	-104Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-105	-104Min.	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-104	-103Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-104	-103Max	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-104	-103Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-104	-103Min.	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-103	2Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-103	2Max	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-103	2Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
103	-103	2Min.	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	13	-107Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	13	-107Max	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	13	-107Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	13	-107Min.	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-107	-108Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-107	-108Max	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-107	-108Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-107	-108Min.	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-108	-109Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-108	-109Max	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-108	-109Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-108	-109Min.	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-109	-110Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-109	-110Max	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-109	-110Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1

Relazione di calcolo

104	-109	-110	Min.	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-110	-98	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-110	-98	Max	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-110	-98	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
104	-110	-98	Min.	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	16	-111	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	16	-111	Max	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	16	-111	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	16	-111	Min.	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-111	-112	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-111	-112	Max	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-111	-112	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-111	-112	Min.	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-112	-113	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-112	-113	Max	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-112	-113	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-112	-113	Min.	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-113	-114	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-113	-114	Max	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-113	-114	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-113	-114	Min.	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-114	7	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-114	7	Max	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-114	7	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
105	-114	7	Min.	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	19	-99	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	19	-99	Max	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	19	-99	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	19	-99	Min.	134.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-99	-100	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-99	-100	Max	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-99	-100	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-99	-100	Min.	109.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-100	-101	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-100	-101	Max	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-100	-101	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-100	-101	Min.	82.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-101	-102	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-101	-102	Max	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-101	-102	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-101	-102	Min.	77.50	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-102	10	Max	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-102	10	Max	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-102	10	Min.	0.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
106	-102	10	Min.	56.00	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1

Tipo di combinazione di carico: SLD

Asta	N1	N2		X <cm>	N <daN>	CC	Ty <daN>	CC	Mz <daNm>	CC	Tz <daN>	CC	My <daNm>	CC	Mx <daNm>	CC
101	3	12	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	3	12	Max	100.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	3	12	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	3	12	Min.	100.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	12	14	Max	0.00	0.00	2	0.00	2	0.00	2	862.63	22	-37.28	4	0.20	26
101	12	14	Max	45.72									108.49	4		
101	12	14	Max	120.00	0.00	2	0.00	2	0.00	2	-811.37	22	-144.17	22	0.20	26
101	12	14	Min.	0.00	0.00	2	0.00	2	0.00	2	637.74	4	-174.92	22	-0.31	16
101	12	14	Min.	61.45									91.70	8		
101	12	14	Min.	120.00	0.00	2	0.00	2	0.00	2	-1036.27	4	-276.40	4	-0.31	16
101	14	13	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	14	13	Max	90.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	14	13	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	14	13	Min.	90.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	13	15	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	13	15	Max	80.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	13	15	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	13	15	Min.	80.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	15	17	Max	0.00	0.00	2	0.00	2	0.00	14	954.49	22	-99.87	4	0.15	26
101	15	17	Max	68.42									86.86	22		
101	15	17	Max	120.00	0.00	2	0.00	2	0.00	14	-719.51	22	-98.70	22	0.15	26
101	15	17	Min.	0.00	0.00	2	0.00	2	0.00	10	720.32	4	-239.68	22	-0.17	16
101	15	17	Min.	57.77									81.81	26		
101	15	17	Min.	120.00	0.00	2	0.00	2	0.00	10	-953.68	4	-239.89	4	-0.17	16
101	17	16	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	17	16	Max	90.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	17	16	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	17	16	Min.	90.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	16	18	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2

Relazione di calcolo

101	16	18	Max	150.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	16	18	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	16	18	Min.	150.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
101	18	20	Max	0.00	0.00	2	0.00	2	0.00	2	1026.36	24	-102.82	2	0.30	30		
101	18	20	Max	73.57									103.04	24				
101	18	20	Max	120.00	0.00	2	0.00	2	0.00	2	-647.64	24	-47.29	24	0.30	30		
101	18	20	Min.	0.00	0.00	2	0.00	2	0.00	2	736.83	2	-274.52	24	-0.23	12		
101	18	20	Min.	60.24									88.89	14				
101	18	20	Min.	120.00	0.00	2	0.00	2	0.00	2	-937.17	2	-223.02	2	-0.23	12		
101	20	19	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
101	20	19	Max	160.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
101	20	19	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
101	20	19	Min.	160.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	2	4	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	2	4	Max	100.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	2	4	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	2	4	Min.	100.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	4	6	Max	0.00	0.00	2	0.00	2	0.00	2	866.34	8	-37.91	18	0.20	26		
102	4	6	Max	45.79									108.34	18				
102	4	6	Max	120.00	0.00	2	0.00	2	0.00	2	-807.66	8	-141.94	8	0.20	26		
102	4	6	Min.	0.00	0.00	2	0.00	2	0.00	2	638.78	18	-177.15	8	-0.31	16		
102	4	6	Min.	61.69									91.75	22				
102	4	6	Min.	120.00	0.00	2	0.00	2	0.00	2	-1035.22	18	-275.77	18	-0.31	16		
102	6	-98	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	6	-98	Max	90.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	6	-98	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	6	-98	Min.	90.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	-98	5	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	-98	5	Max	80.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	-98	5	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	-98	5	Min.	80.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	5	8	Max	0.00	0.00	2	0.00	2	0.00	14	955.62	8	-99.79	18	0.15	26		
102	5	8	Max	68.50									86.95	8				
102	5	8	Max	120.00	0.00	2	0.00	2	0.00	14	-718.38	8	-98.02	8	0.15	26		
102	5	8	Min.	0.00	0.00	2	0.00	2	0.00	10	720.19	18	-240.36	8	-0.17	16		
102	5	8	Min.	57.82									81.79	14				
102	5	8	Min.	120.00	0.00	2	0.00	2	0.00	10	-953.81	18	-239.97	18	-0.17	16		
102	8	7	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	8	7	Max	90.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	8	7	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	8	7	Min.	90.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	7	9	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	7	9	Max	150.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	7	9	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	7	9	Min.	150.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	9	11	Max	0.00	0.00	2	0.00	2	0.00	2	1027.88	6	-99.99	20	0.30	30		
102	9	11	Max	73.68									103.25	6				
102	9	11	Max	120.00	0.00	2	0.00	2	0.00	2	-646.12	6	-46.37	6	0.30	30		
102	9	11	Min.	0.00	0.00	2	0.00	2	0.00	2	732.12	20	-275.44	6	-0.23	12		
102	9	11	Min.	59.88									88.89	14				
102	9	11	Min.	120.00	0.00	2	0.00	2	0.00	2	-941.88	20	-225.85	20	-0.23	12		
102	11	10	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	11	10	Max	160.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	11	10	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
102	11	10	Min.	160.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	3	-106	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	3	-106	Max	134.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	3	-106	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	3	-106	Min.	134.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-106	-105	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-106	-105	Max	109.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-106	-105	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-106	-105	Min.	109.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-105	-104	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-105	-104	Max	82.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-105	-104	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-105	-104	Min.	82.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-104	-103	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-104	-103	Max	77.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-104	-103	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-104	-103	Min.	77.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-103	2	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-103	2	Max	56.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-103	2	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
103	-103	2	Min.	56.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
104	13	-107	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
104	13	-107	Max	134.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
104	13	-107	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		
104	13	-107	Min.	134.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2		

Relazione di calcolo

104	-107	-108	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-107	-108	Max	109.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-107	-108	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-107	-108	Min.	109.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-108	-109	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-108	-109	Max	82.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-108	-109	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-108	-109	Min.	82.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-109	-110	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-109	-110	Max	77.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-109	-110	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-109	-110	Min.	77.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-110	-98	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-110	-98	Max	56.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-110	-98	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
104	-110	-98	Min.	56.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	16	-111	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	16	-111	Max	134.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	16	-111	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	16	-111	Min.	134.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-111	-112	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-111	-112	Max	109.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-111	-112	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-111	-112	Min.	109.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-112	-113	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-112	-113	Max	82.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-112	-113	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-112	-113	Min.	82.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-113	-114	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-113	-114	Max	77.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-113	-114	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-113	-114	Min.	77.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-114	7	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-114	7	Max	56.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-114	7	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
105	-114	7	Min.	56.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	19	-99	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	19	-99	Max	134.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	19	-99	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	19	-99	Min.	134.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-99	-100	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-99	-100	Max	109.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-99	-100	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-99	-100	Min.	109.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-100	-101	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-100	-101	Max	82.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-100	-101	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-100	-101	Min.	82.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-101	-102	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-101	-102	Max	77.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-101	-102	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-101	-102	Min.	77.50	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-102	10	Max	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-102	10	Max	56.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-102	10	Min.	0.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2
106	-102	10	Min.	56.00	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2	0.00	2

Tipo di combinazione di carico: SLU

Asta	N1	N2		X <cm>	N <daN>	CC	Ty <daN>	CC	Mz <daNm>	CC	Tz <daN>	CC	My <daNm>	CC	Mx <daNm>	CC
101	3	12	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	3	12	Max	100.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	3	12	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	3	12	Min.	100.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	12	14	Max	0.00	0.00	33	0.00	33	0.00	33	1216.76	33	-174.85	33	-0.08	33
101	12	14	Max	54.07									154.08	33		
101	12	14	Max	120.00	0.00	33	0.00	33	0.00	33	-1483.84	33	-335.10	33	-0.08	33
101	12	14	Min.	0.00	0.00	33	0.00	33	0.00	33	1216.76	33	-174.85	33	-0.08	33
101	12	14	Min.	54.07									154.08	33		
101	12	14	Min.	120.00	0.00	33	0.00	33	0.00	33	-1483.84	33	-335.10	33	-0.08	33
101	14	13	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	14	13	Max	90.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	14	13	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	14	13	Min.	90.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	13	15	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	13	15	Max	80.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	13	15	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	13	15	Min.	80.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33

Relazione di calcolo

101	15	17	Max	0.00	0.00	33	0.00	33	0.00	33	1351.04	33	-274.04	33	-0.02	33
101	15	17	Max	60.03									131.49	33		
101	15	17	Max	120.00	0.00	33	0.00	33	0.00	33	-1349.56	33	-273.15	33	-0.02	33
101	15	17	Min.	0.00	0.00	33	0.00	33	0.00	33	1351.04	33	-274.04	33	-0.02	33
101	15	17	Min.	60.03									131.49	33		
101	15	17	Min.	120.00	0.00	33	0.00	33	0.00	33	-1349.56	33	-273.15	33	-0.02	33
101	17	16	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	17	16	Max	90.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	17	16	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	17	16	Min.	90.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	16	18	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	16	18	Max	150.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	16	18	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	16	18	Min.	150.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	18	20	Max	0.00	0.00	33	0.00	33	0.00	33	1420.65	33	-303.12	33	0.05	33
101	18	20	Max	63.13									145.28	33		
101	18	20	Max	120.00	0.00	33	0.00	33	0.00	33	-1279.95	33	-218.70	33	0.05	33
101	18	20	Min.	0.00	0.00	33	0.00	33	0.00	33	1420.65	33	-303.12	33	0.05	33
101	18	20	Min.	63.13									145.28	33		
101	18	20	Min.	120.00	0.00	33	0.00	33	0.00	33	-1279.95	33	-218.70	33	0.05	33
101	20	19	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	20	19	Max	160.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	20	19	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
101	20	19	Min.	160.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	2	4	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	2	4	Max	100.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	2	4	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	2	4	Min.	100.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	4	6	Max	0.00	0.00	33	0.00	33	0.00	33	1220.18	33	-176.90	33	-0.08	33
102	4	6	Max	54.22									153.88	33		
102	4	6	Max	120.00	0.00	33	0.00	33	0.00	33	-1480.42	33	-333.04	33	-0.08	33
102	4	6	Min.	0.00	0.00	33	0.00	33	0.00	33	1220.18	33	-176.90	33	-0.08	33
102	4	6	Min.	54.22									153.88	33		
102	4	6	Min.	120.00	0.00	33	0.00	33	0.00	33	-1480.42	33	-333.04	33	-0.08	33
102	6	-98	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	6	-98	Max	90.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	6	-98	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	6	-98	Min.	90.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	-98	5	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	-98	5	Max	80.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	-98	5	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	-98	5	Min.	80.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	5	8	Max	0.00	0.00	33	0.00	33	0.00	33	1351.75	33	-274.46	33	-0.02	33
102	5	8	Max	60.06									131.49	33		
102	5	8	Max	120.00	0.00	33	0.00	33	0.00	33	-1348.86	33	-272.73	33	-0.02	33
102	5	8	Min.	0.00	0.00	33	0.00	33	0.00	33	1351.75	33	-274.46	33	-0.02	33
102	5	8	Min.	60.06									131.49	33		
102	5	8	Min.	120.00	0.00	33	0.00	33	0.00	33	-1348.86	33	-272.73	33	-0.02	33
102	8	7	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	8	7	Max	90.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	8	7	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	8	7	Min.	90.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	7	9	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	7	9	Max	150.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	7	9	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	7	9	Min.	150.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	9	11	Max	0.00	0.00	33	0.00	33	0.00	33	1418.38	33	-301.76	33	0.05	33
102	9	11	Max	63.03									145.21	33		
102	9	11	Max	120.00	0.00	33	0.00	33	0.00	33	-1282.22	33	-220.06	33	0.05	33
102	9	11	Min.	0.00	0.00	33	0.00	33	0.00	33	1418.38	33	-301.76	33	0.05	33
102	9	11	Min.	63.03									145.21	33		
102	9	11	Min.	120.00	0.00	33	0.00	33	0.00	33	-1282.22	33	-220.06	33	0.05	33
102	11	10	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	11	10	Max	160.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	11	10	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
102	11	10	Min.	160.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	3	-106	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	3	-106	Max	134.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	3	-106	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	3	-106	Min.	134.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-106	-105	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-106	-105	Max	109.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-106	-105	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-106	-105	Min.	109.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-105	-104	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-105	-104	Max	82.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-105	-104	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-105	-104	Min.	82.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-104	-103	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33

Relazione di calcolo

103	-104	-103	Max	77.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-104	-103	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-104	-103	Min.	77.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-103	2	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-103	2	Max	56.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-103	2	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
103	-103	2	Min.	56.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	13	-107	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	13	-107	Max	134.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	13	-107	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	13	-107	Min.	134.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-107	-108	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-107	-108	Max	109.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-107	-108	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-107	-108	Min.	109.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-108	-109	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-108	-109	Max	82.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-108	-109	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-108	-109	Min.	82.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-109	-110	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-109	-110	Max	77.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-109	-110	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-109	-110	Min.	77.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-110	-98	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-110	-98	Max	56.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-110	-98	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
104	-110	-98	Min.	56.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	16	-111	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	16	-111	Max	134.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	16	-111	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	16	-111	Min.	134.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-111	-112	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-111	-112	Max	109.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-111	-112	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-111	-112	Min.	109.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-112	-113	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-112	-113	Max	82.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-112	-113	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-112	-113	Min.	82.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-113	-114	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-113	-114	Max	77.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-113	-114	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-113	-114	Min.	77.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-114	7	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-114	7	Max	56.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-114	7	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
105	-114	7	Min.	56.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	19	-99	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	19	-99	Max	134.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	19	-99	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	19	-99	Min.	134.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-99	-100	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-99	-100	Max	109.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-99	-100	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-99	-100	Min.	109.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-100	-101	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-100	-101	Max	82.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-100	-101	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-100	-101	Min.	82.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-101	-102	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-101	-102	Max	77.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-101	-102	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-101	-102	Min.	77.50	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-102	10	Max	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-102	10	Max	56.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-102	10	Min.	0.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33
106	-102	10	Min.	56.00	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33	0.00	33

Tipo di combinazione di carico: SLE R

Asta	N1	N2		X <cm>	N <daN>	CC	Ty <daN>	CC	Mz <daNm>	CC	Tz <daN>	CC	My <daNm>	CC	Mx <daNm>	CC
101	3	12	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	3	12	Max	100.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	3	12	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	3	12	Min.	100.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	12	14	Max	0.00	0.00	34	0.00	34	0.00	34	877.30	34	-125.53	34	-0.06	34
101	12	14	Max	53.99									111.28	34		
101	12	14	Max	120.00	0.00	34	0.00	34	0.00	34	-1072.70	34	-242.77	34	-0.06	34

Relazione di calcolo

101	12	14	Min.	0.00	0.00	34	0.00	34	0.00	34	877.30	34	-125.53	34	-0.06	34
101	12	14	Min.	53.99									111.28	34		
101	12	14	Min.	120.00	0.00	34	0.00	34	0.00	34	-1072.70	34	-242.77	34	-0.06	34
101	14	13	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	14	13	Max	90.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	14	13	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	14	13	Min.	90.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	13	15	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	13	15	Max	80.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	13	15	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	13	15	Min.	80.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	15	17	Max	0.00	0.00	34	0.00	34	0.00	34	975.52	34	-197.85	34	-0.01	34
101	15	17	Max	60.03									94.96	34		
101	15	17	Max	120.00	0.00	34	0.00	34	0.00	34	-974.48	34	-197.22	34	-0.01	34
101	15	17	Min.	0.00	0.00	34	0.00	34	0.00	34	975.52	34	-197.85	34	-0.01	34
101	15	17	Min.	60.03									94.96	34		
101	15	17	Min.	120.00	0.00	34	0.00	34	0.00	34	-974.48	34	-197.22	34	-0.01	34
101	17	16	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	17	16	Max	90.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	17	16	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	17	16	Min.	90.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	16	18	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	16	18	Max	150.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	16	18	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	16	18	Min.	150.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	18	20	Max	0.00	0.00	34	0.00	34	0.00	34	1026.11	34	-219.12	34	0.04	34
101	18	20	Max	63.15									104.85	34		
101	18	20	Max	120.00	0.00	34	0.00	34	0.00	34	-923.89	34	-157.78	34	0.04	34
101	18	20	Min.	0.00	0.00	34	0.00	34	0.00	34	1026.11	34	-219.12	34	0.04	34
101	18	20	Min.	63.15									104.85	34		
101	18	20	Min.	120.00	0.00	34	0.00	34	0.00	34	-923.89	34	-157.78	34	0.04	34
101	20	19	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	20	19	Max	160.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	20	19	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
101	20	19	Min.	160.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	2	4	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	2	4	Max	100.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	2	4	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	2	4	Min.	100.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	4	6	Max	0.00	0.00	34	0.00	34	0.00	34	879.85	34	-127.06	34	-0.06	34
102	4	6	Max	54.14									111.13	34		
102	4	6	Max	120.00	0.00	34	0.00	34	0.00	34	-1070.15	34	-241.24	34	-0.06	34
102	4	6	Min.	0.00	0.00	34	0.00	34	0.00	34	879.85	34	-127.06	34	-0.06	34
102	4	6	Min.	54.14									111.13	34		
102	4	6	Min.	120.00	0.00	34	0.00	34	0.00	34	-1070.15	34	-241.24	34	-0.06	34
102	6	-98	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	6	-98	Max	90.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	6	-98	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	6	-98	Min.	90.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	-98	5	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	-98	5	Max	80.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	-98	5	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	-98	5	Min.	80.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	5	8	Max	0.00	0.00	34	0.00	34	0.00	34	976.05	34	-198.16	34	-0.01	34
102	5	8	Max	60.06									94.96	34		
102	5	8	Max	120.00	0.00	34	0.00	34	0.00	34	-973.95	34	-196.91	34	-0.01	34
102	5	8	Min.	0.00	0.00	34	0.00	34	0.00	34	976.05	34	-198.16	34	-0.01	34
102	5	8	Min.	60.06									94.96	34		
102	5	8	Min.	120.00	0.00	34	0.00	34	0.00	34	-973.95	34	-196.91	34	-0.01	34
102	8	7	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	8	7	Max	90.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	8	7	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	8	7	Min.	90.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	7	9	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	7	9	Max	150.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	7	9	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	7	9	Min.	150.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	9	11	Max	0.00	0.00	34	0.00	34	0.00	34	1024.41	34	-218.10	34	0.04	34
102	9	11	Max	63.04									104.80	34		
102	9	11	Max	120.00	0.00	34	0.00	34	0.00	34	-925.59	34	-158.80	34	0.04	34
102	9	11	Min.	0.00	0.00	34	0.00	34	0.00	34	1024.41	34	-218.10	34	0.04	34
102	9	11	Min.	63.04									104.80	34		
102	9	11	Min.	120.00	0.00	34	0.00	34	0.00	34	-925.59	34	-158.80	34	0.04	34
102	11	10	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	11	10	Max	160.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	11	10	Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
102	11	10	Min.	160.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	3	-106	Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	3	-106	Max	134.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34

Relazione di calcolo

103	3	-106Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	3	-106Min.	134.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-106	-105Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-106	-105Max	109.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-106	-105Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-106	-105Min.	109.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-105	-104Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-105	-104Max	82.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-105	-104Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-105	-104Min.	82.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-104	-103Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-104	-103Max	77.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-104	-103Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-104	-103Min.	77.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-103	2Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-103	2Max	56.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-103	2Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
103	-103	2Min.	56.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	13	-107Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	13	-107Max	134.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	13	-107Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	13	-107Min.	134.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-107	-108Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-107	-108Max	109.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-107	-108Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-107	-108Min.	109.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-108	-109Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-108	-109Max	82.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-108	-109Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-108	-109Min.	82.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-109	-110Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-109	-110Max	77.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-109	-110Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-109	-110Min.	77.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-110	-98Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-110	-98Max	56.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-110	-98Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
104	-110	-98Min.	56.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	16	-111Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	16	-111Max	134.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	16	-111Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	16	-111Min.	134.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-111	-112Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-111	-112Max	109.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-111	-112Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-111	-112Min.	109.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-112	-113Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-112	-113Max	82.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-112	-113Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-112	-113Min.	82.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-113	-114Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-113	-114Max	77.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-113	-114Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-113	-114Min.	77.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-114	7Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-114	7Max	56.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-114	7Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
105	-114	7Min.	56.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	19	-99Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	19	-99Max	134.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	19	-99Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	19	-99Min.	134.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-99	-100Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-99	-100Max	109.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-99	-100Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-99	-100Min.	109.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-100	-101Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-100	-101Max	82.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-100	-101Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-100	-101Min.	82.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-101	-102Max	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-101	-102Max	77.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-101	-102Min.	0.00	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-101	-102Min.	77.50	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34	0.00	34
106	-102	10Max	0.00	0.00	34	0.00	34	0.00	34	0.00</									

Relazione di calcolo

Tipo di combinazione di carico: SLE F

Asta	N1	N2		X <cm>	N <daN>	CC	Ty <daN>	CC	Mz <daNm>	CC	Tz <daN>	CC	My <daNm>	CC	Mx <daNm>	CC
101	3	12	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	3	12	Max	100.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	3	12	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	3	12	Min.	100.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	12	14	Max	0.00	0.00	35	0.00	35	0.00	35	762.89	35	-108.05	35	-0.06	35
101	12	14	Max	53.80									97.17	35		
101	12	14	Max	120.00	0.00	35	0.00	35	0.00	35	-938.71	35	-213.53	35	-0.06	35
101	12	14	Min.	0.00	0.00	35	0.00	35	0.00	35	762.89	35	-108.05	35	-0.06	35
101	12	14	Min.	53.80									97.17	35		
101	12	14	Min.	120.00	0.00	35	0.00	35	0.00	35	-938.71	35	-213.53	35	-0.06	35
101	14	13	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	14	13	Max	90.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	14	13	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	14	13	Min.	90.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	13	15	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	13	15	Max	80.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	13	15	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	13	15	Min.	80.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	15	17	Max	0.00	0.00	35	0.00	35	0.00	35	851.21	35	-172.58	35	-0.01	35
101	15	17	Max	60.03									82.91	35		
101	15	17	Max	120.00	0.00	35	0.00	35	0.00	35	-850.39	35	-172.09	35	-0.01	35
101	15	17	Min.	0.00	0.00	35	0.00	35	0.00	35	851.21	35	-172.58	35	-0.01	35
101	15	17	Min.	60.03									82.91	35		
101	15	17	Min.	120.00	0.00	35	0.00	35	0.00	35	-850.39	35	-172.09	35	-0.01	35
101	17	16	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	17	16	Max	90.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	17	16	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	17	16	Min.	90.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	16	18	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	16	18	Max	150.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	16	18	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	16	18	Min.	150.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	18	20	Max	0.00	0.00	35	0.00	35	0.00	35	896.04	35	-191.71	35	0.04	35
101	18	20	Max	63.19									91.40	35		
101	18	20	Max	120.00	0.00	35	0.00	35	0.00	35	-805.55	35	-137.42	35	0.04	35
101	18	20	Min.	0.00	0.00	35	0.00	35	0.00	35	896.04	35	-191.71	35	0.04	35
101	18	20	Min.	63.19									91.40	35		
101	18	20	Min.	120.00	0.00	35	0.00	35	0.00	35	-805.55	35	-137.42	35	0.04	35
101	20	19	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	20	19	Max	160.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	20	19	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
101	20	19	Min.	160.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	2	4	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	2	4	Max	100.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	2	4	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	2	4	Min.	100.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	4	6	Max	0.00	0.00	35	0.00	35	0.00	35	765.29	35	-109.48	35	-0.06	35
102	4	6	Max	53.97									97.03	35		
102	4	6	Max	120.00	0.00	35	0.00	35	0.00	35	-936.31	35	-212.09	35	-0.06	35
102	4	6	Min.	0.00	0.00	35	0.00	35	0.00	35	765.29	35	-109.48	35	-0.06	35
102	4	6	Min.	53.97									97.03	35		
102	4	6	Min.	120.00	0.00	35	0.00	35	0.00	35	-936.31	35	-212.09	35	-0.06	35
102	6	-98	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	6	-98	Max	90.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	6	-98	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	6	-98	Min.	90.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	-98	5	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	-98	5	Max	80.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	-98	5	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	-98	5	Min.	80.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	5	8	Max	0.00	0.00	35	0.00	35	0.00	35	851.72	35	-172.89	35	-0.01	35
102	5	8	Max	60.06									82.91	35		
102	5	8	Max	120.00	0.00	35	0.00	35	0.00	35	-849.88	35	-171.78	35	-0.01	35
102	5	8	Min.	0.00	0.00	35	0.00	35	0.00	35	851.72	35	-172.89	35	-0.01	35
102	5	8	Min.	60.06									82.91	35		
102	5	8	Min.	120.00	0.00	35	0.00	35	0.00	35	-849.88	35	-171.78	35	-0.01	35
102	8	7	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	8	7	Max	90.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	8	7	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	8	7	Min.	90.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	7	9	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	7	9	Max	150.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	7	9	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	7	9	Min.	150.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	9	11	Max	0.00	0.00	35	0.00	35	0.00	35	894.44	35	-190.75	35	0.04	35

Relazione di calcolo

102	9	11	Max	63.08									91.35	35		
102	9	11	Max	120.00	0.00	35	0.00	35	0.00	35	-807.16	35	-138.38	35	0.04	35
102	9	11	Min.	0.00	0.00	35	0.00	35	0.00	35	894.44	35	-190.75	35	0.04	35
102	9	11	Min.	63.08									91.35	35		
102	9	11	Min.	120.00	0.00	35	0.00	35	0.00	35	-807.16	35	-138.38	35	0.04	35
102	11	10	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	11	10	Max	160.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	11	10	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
102	11	10	Min.	160.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	3	-106	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	3	-106	Max	134.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	3	-106	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	3	-106	Min.	134.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-106	-105	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-106	-105	Max	109.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-106	-105	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-106	-105	Min.	109.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-105	-104	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-105	-104	Max	82.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-105	-104	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-105	-104	Min.	82.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-104	-103	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-104	-103	Max	77.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-104	-103	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-104	-103	Min.	77.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-103	2	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-103	2	Max	56.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-103	2	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
103	-103	2	Min.	56.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	13	-107	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	13	-107	Max	134.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	13	-107	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	13	-107	Min.	134.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-107	-108	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-107	-108	Max	109.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-107	-108	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-107	-108	Min.	109.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-108	-109	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-108	-109	Max	82.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-108	-109	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-108	-109	Min.	82.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-109	-110	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-109	-110	Max	77.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-109	-110	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-109	-110	Min.	77.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-110	-98	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-110	-98	Max	56.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-110	-98	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
104	-110	-98	Min.	56.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	16	-111	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	16	-111	Max	134.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	16	-111	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	16	-111	Min.	134.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-111	-112	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-111	-112	Max	109.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-111	-112	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-111	-112	Min.	109.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-112	-113	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-112	-113	Max	82.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-112	-113	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-112	-113	Min.	82.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-113	-114	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-113	-114	Max	77.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-113	-114	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-113	-114	Min.	77.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-114	7	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-114	7	Max	56.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-114	7	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
105	-114	7	Min.	56.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	19	-99	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	19	-99	Max	134.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	19	-99	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	19	-99	Min.	134.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-99	-100	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-99	-100	Max	109.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-99	-100	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-99	-100	Min.	109.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-100	-101	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-100	-101	Max	82.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35

Relazione di calcolo

106	-100	-101	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-100	-101	Min.	82.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-101	-102	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-101	-102	Max	77.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-101	-102	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-101	-102	Min.	77.50	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-102	10	Max	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-102	10	Max	56.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-102	10	Min.	0.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35
106	-102	10	Min.	56.00	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35	0.00	35

Tipo di combinazione di carico: SLE Q

Asta	N1	N2		X <cm>	N <daN>	CC	Ty <daN>	CC	Mz <daNm>	CC	Tz <daN>	CC	My <daNm>	CC	Mx <daNm>	CC
101	3	12	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	3	12	Max	100.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	3	12	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	3	12	Min.	100.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	12	14	Max	0.00	0.00	36	0.00	36	0.00	36	750.18	36	-106.10	36	-0.06	36
101	12	14	Max	53.78									95.61	36		
101	12	14	Max	120.00	0.00	36	0.00	36	0.00	36	-923.82	36	-210.28	36	-0.06	36
101	12	14	Min.	0.00	0.00	36	0.00	36	0.00	36	750.18	36	-106.10	36	-0.06	36
101	12	14	Min.	53.78									95.61	36		
101	12	14	Min.	120.00	0.00	36	0.00	36	0.00	36	-923.82	36	-210.28	36	-0.06	36
101	14	13	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	14	13	Max	90.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	14	13	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	14	13	Min.	90.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	13	15	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	13	15	Max	80.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	13	15	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	13	15	Min.	80.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	15	17	Max	0.00	0.00	36	0.00	36	0.00	36	837.40	36	-169.78	36	-0.01	36
101	15	17	Max	60.03									81.57	36		
101	15	17	Max	120.00	0.00	36	0.00	36	0.00	36	-836.60	36	-169.29	36	-0.01	36
101	15	17	Min.	0.00	0.00	36	0.00	36	0.00	36	837.40	36	-169.78	36	-0.01	36
101	15	17	Min.	60.03									81.57	36		
101	15	17	Min.	120.00	0.00	36	0.00	36	0.00	36	-836.60	36	-169.29	36	-0.01	36
101	17	16	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	17	16	Max	90.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	17	16	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	17	16	Min.	90.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	16	18	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	16	18	Max	150.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	16	18	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	16	18	Min.	150.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	18	20	Max	0.00	0.00	36	0.00	36	0.00	36	881.59	36	-188.67	36	0.04	36
101	18	20	Max	63.20									89.90	36		
101	18	20	Max	120.00	0.00	36	0.00	36	0.00	36	-792.41	36	-135.16	36	0.04	36
101	18	20	Min.	0.00	0.00	36	0.00	36	0.00	36	881.59	36	-188.67	36	0.04	36
101	18	20	Min.	63.20									89.90	36		
101	18	20	Min.	120.00	0.00	36	0.00	36	0.00	36	-792.41	36	-135.16	36	0.04	36
101	20	19	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	20	19	Max	160.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	20	19	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
101	20	19	Min.	160.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	2	4	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	2	4	Max	100.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	2	4	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	2	4	Min.	100.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	4	6	Max	0.00	0.00	36	0.00	36	0.00	36	752.56	36	-107.53	36	-0.06	36
102	4	6	Max	53.95									95.46	36		
102	4	6	Max	120.00	0.00	36	0.00	36	0.00	36	-921.44	36	-208.86	36	-0.06	36
102	4	6	Min.	0.00	0.00	36	0.00	36	0.00	36	752.56	36	-107.53	36	-0.06	36
102	4	6	Min.	53.95									95.46	36		
102	4	6	Min.	120.00	0.00	36	0.00	36	0.00	36	-921.44	36	-208.86	36	-0.06	36
102	6	-98	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	6	-98	Max	90.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	6	-98	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	6	-98	Min.	90.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	-98	5	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	-98	5	Max	80.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	-98	5	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	-98	5	Min.	80.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	5	8	Max	0.00	0.00	36	0.00	36	0.00	36	837.91	36	-170.08	36	-0.01	36
102	5	8	Max	60.06									81.57	36		
102	5	8	Max	120.00	0.00	36	0.00	36	0.00	36	-836.09	36	-168.99	36	-0.01	36
102	5	8	Min.	0.00	0.00	36	0.00	36	0.00	36	837.91	36	-170.08	36	-0.01	36

Relazione di calcolo

102	5	8Min.	60.06									81.57	36		
102	5	8Min.	120.00	0.00	36	0.00	36	0.00	36	-836.09	36	-168.99	36	-0.01	36
102	8	7Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	8	7Max	90.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	8	7Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	8	7Min.	90.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	7	9Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	7	9Max	150.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	7	9Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	7	9Min.	150.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	9	11Max	0.00	0.00	36	0.00	36	0.00	36	880.00	36	-187.71	36	0.04	36
102	9	11Max	63.08									89.85	36		
102	9	11Max	120.00	0.00	36	0.00	36	0.00	36	-794.00	36	-136.11	36	0.04	36
102	9	11Min.	0.00	0.00	36	0.00	36	0.00	36	880.00	36	-187.71	36	0.04	36
102	9	11Min.	63.08									89.85	36		
102	9	11Min.	120.00	0.00	36	0.00	36	0.00	36	-794.00	36	-136.11	36	0.04	36
102	11	10Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	11	10Max	160.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	11	10Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
102	11	10Min.	160.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	3	-106Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	3	-106Max	134.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	3	-106Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	3	-106Min.	134.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-106	-105Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-106	-105Max	109.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-106	-105Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-106	-105Min.	109.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-105	-104Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-105	-104Max	82.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-105	-104Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-105	-104Min.	82.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-104	-103Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-104	-103Max	77.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-104	-103Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-104	-103Min.	77.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-103	2Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-103	2Max	56.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-103	2Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
103	-103	2Min.	56.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	13	-107Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	13	-107Max	134.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	13	-107Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	13	-107Min.	134.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-107	-108Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-107	-108Max	109.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-107	-108Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-107	-108Min.	109.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-108	-109Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-108	-109Max	82.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-108	-109Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-108	-109Min.	82.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-109	-110Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-109	-110Max	77.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-109	-110Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-109	-110Min.	77.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-110	-98Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-110	-98Max	56.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-110	-98Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
104	-110	-98Min.	56.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	16	-111Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	16	-111Max	134.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	16	-111Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	16	-111Min.	134.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-111	-112Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-111	-112Max	109.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-111	-112Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-111	-112Min.	109.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-112	-113Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-112	-113Max	82.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-112	-113Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-112	-113Min.	82.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-113	-114Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-113	-114Max	77.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-113	-114Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-113	-114Min.	77.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-114	7Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-114	7Max	56.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
105	-114	7Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36

Relazione di calcolo

105	-114	7	Min.	56.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	19	-99	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	19	-99	Max	134.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	19	-99	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	19	-99	Min.	134.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-99	-100	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-99	-100	Max	109.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-99	-100	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-99	-100	Min.	109.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-100	-101	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-100	-101	Max	82.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-100	-101	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-100	-101	Min.	82.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-101	-102	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-101	-102	Max	77.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-101	-102	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-101	-102	Min.	77.50	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-102	10	Max	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-102	10	Max	56.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-102	10	Min.	0.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36
106	-102	10	Min.	56.00	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36	0.00	36

Sollecitazioni muri

Simbologia

Muro = Muro

Nodo = Numero del nodo

N = Sforzo normale

CC = Numero della combinazione delle condizioni di carico elementari

TCC = Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

SLE F = Stato limite d'esercizio, combinazione frequente

SLE Q = Stato limite d'esercizio, combinazione quasi permanente

SLD = Stato limite di danno

SLV = Stato limite di salvaguardia della vita

SLC = Stato limite di prevenzione del collasso

SLO = Stato limite di operatività

SLU I = Stato limite di resistenza al fuoco

SND = Stato limite di salvaguardia della vita (non dissipativo)

Tx = Taglio in dir. X

Mx = Momento flettente intorno all'asse X

Ty = Taglio in dir. Y

Muro		Nodo	N <daN>	CC	TCC	Tx <daN/m>	CC	TCC	Mx <daNm>	CC	TCC	Ty <daN>	CC	TCC
114	Max	-68	-802.84	9	SND	166.37	29	SND	30.38	5	SND	15.09	19	SND
114	Max	-80	-650.54	29	SND	166.37	29	SND	30.90	5	SND	15.37	19	SND
114	Max	7	-64.16	9	SND	166.37	29	SND	22.19	19	SND	15.37	19	SND
114	Max	-114	88.04	29	SND	166.37	29	SND	21.68	19	SND	15.09	19	SND
114	Min.	-68	-1454.78	33	SLU	-164.85	11	SND	-31.88	19	SND	-15.54	5	SND
114	Min.	-80	-1450.91	33	SLU	-164.85	11	SND	-32.39	19	SND	-15.83	5	SND
114	Min.	7	-545.43	31	SND	-164.85	11	SND	-25.31	5	SND	-15.83	5	SND
114	Min.	-114	-692.33	11	SND	-164.85	11	SND	-24.80	5	SND	-15.54	5	SND
114	Max	-56	-947.26	9	SND	303.32	29	SND	41.04	5	SND	20.32	19	SND
114	Max	-68	-802.99	29	SND	303.32	29	SND	42.02	5	SND	20.87	19	SND
114	Max	-114	71.40	9	SND	303.32	29	SND	29.98	19	SND	20.87	19	SND
114	Max	-113	215.47	29	SND	303.32	29	SND	29.02	19	SND	20.32	19	SND
114	Min.	-56	-2014.41	33	SLU	-300.57	11	SND	-43.13	19	SND	-20.94	5	SND
114	Min.	-68	-2095.79	11	SND	-300.57	11	SND	-44.10	19	SND	-21.50	5	SND
114	Min.	-114	-916.52	31	SND	-300.57	11	SND	-34.29	5	SND	-21.50	5	SND
114	Min.	-113	-1050.95	11	SND	-300.57	11	SND	-33.31	5	SND	-20.94	5	SND
114	Max	-44	-936.32	9	SND	339.15	29	SND	42.56	5	SND	21.01	19	SND
114	Max	-56	-869.18	29	SND	339.15	29	SND	43.68	5	SND	21.63	19	SND
114	Max	-113	147.16	9	SND	339.15	29	SND	30.88	19	SND	21.63	19	SND
114	Max	-112	214.07	29	SND	339.15	29	SND	29.78	19	SND	21.01	19	SND
114	Min.	-44	-2160.78	31	SND	-336.07	11	SND	-44.81	19	SND	-21.66	5	SND
114	Min.	-56	-2216.81	11	SND	-336.07	11	SND	-45.91	19	SND	-22.29	5	SND
114	Min.	-113	-1047.53	31	SND	-336.07	11	SND	-35.45	5	SND	-22.29	5	SND
114	Min.	-112	-1103.67	11	SND	-336.07	11	SND	-34.33	5	SND	-21.66	5	SND
114	Max	-32	-996.38	9	SND	549.64	29	SND	57.66	23	SND	28.57	1	SND
114	Max	-44	-1043.41	29	SND	549.64	29	SND	56.45	5	SND	27.87	19	SND
114	Max	-112	435.26	9	SND	549.64	29	SND	39.49	19	SND	27.87	19	SND
114	Max	-111	387.83	29	SND	549.64	29	SND	40.73	1	SND	28.57	1	SND
114	Min.	-32	-3116.71	31	SND	-544.65	11	SND	-60.68	1	SND	-29.41	23	SND
114	Min.	-44	-3051.67	11	SND	-544.65	11	SND	-59.44	19	SND	-28.73	5	SND
114	Min.	-112	-1632.62	31	SND	-544.65	11	SND	-45.53	5	SND	-28.73	5	SND
114	Min.	-111	-1567.77	11	SND	-544.65	11	SND	-46.73	23	SND	-29.41	23	SND
114	Max	-20	-970.13	9	SND	756.64	29	SND	73.34	23	SND	36.54	1	SND

Relazione di calcolo

114	Max	-32	-1241.94	29	SND	756.64	29	SND	70.78	23	SND	35.06	1	SND
114	Max	-111	781.06	9	SND	756.64	29	SND	49.99	1	SND	35.06	1	SND
114	Max	16	508.63	29	SND	756.64	29	SND	52.60	1	SND	36.54	1	SND
114	Min.	-20	-4084.63	31	SND	-749.78	11	SND	-77.10	1	SND	-37.54	23	SND
114	Min.	-32	-3787.99	11	SND	-749.78	11	SND	-74.49	1	SND	-36.09	23	SND
114	Min.	-111	-2254.30	31	SND	-749.78	11	SND	-57.36	23	SND	-36.09	23	SND
114	Min.	16	-1957.97	11	SND	-749.78	11	SND	-59.92	23	SND	-37.54	23	SND
115	Max	-53	-1018.54	27	SND	295.33	13	SND	49.82	5	SND	22.92	19	SND
115	Max	-65	-848.54	15	SND	295.33	13	SND	50.81	5	SND	23.46	19	SND
115	Max	-110	-2.64	27	SND	295.33	13	SND	37.23	19	SND	23.46	19	SND
115	Max	-109	167.21	15	SND	295.33	13	SND	36.26	19	SND	22.92	19	SND
115	Min.	-53	-2035.68	33	SLU	-293.19	27	SND	-45.09	19	SND	-23.70	5	SND
115	Min.	-65	-2084.83	25	SND	-293.19	27	SND	-46.06	19	SND	-24.25	5	SND
115	Min.	-110	-874.88	13	SND	-293.19	27	SND	-35.29	5	SND	-24.25	5	SND
115	Min.	-109	-1037.29	25	SND	-293.19	27	SND	-34.30	5	SND	-23.70	5	SND
115	Max	-41	-1003.66	27	SND	330.22	13	SND	51.92	5	SND	23.77	19	SND
115	Max	-53	-927.27	15	SND	330.22	13	SND	53.03	5	SND	24.39	19	SND
115	Max	-109	76.70	27	SND	330.22	13	SND	38.59	19	SND	24.39	19	SND
115	Max	-108	152.92	15	SND	330.22	13	SND	37.49	19	SND	23.77	19	SND
115	Min.	-41	-2167.50	33	SLU	-327.83	27	SND	-46.90	19	SND	-24.59	5	SND
115	Min.	-53	-2195.61	25	SND	-327.83	27	SND	-47.99	19	SND	-25.22	5	SND
115	Min.	-109	-1011.49	13	SND	-327.83	27	SND	-36.51	5	SND	-25.22	5	SND
115	Min.	-108	-1079.40	25	SND	-327.83	27	SND	-35.39	5	SND	-24.59	5	SND
115	Max	-29	-1074.48	27	SND	535.15	13	SND	70.07	23	SND	32.22	1	SND
115	Max	-41	-1138.76	15	SND	535.15	13	SND	68.86	5	SND	31.53	19	SND
115	Max	-108	351.67	27	SND	535.15	13	SND	49.72	19	SND	31.53	19	SND
115	Max	-107	287.08	15	SND	535.15	13	SND	50.95	1	SND	32.22	1	SND
115	Min.	-29	-3083.95	13	SND	-531.29	27	SND	-63.44	1	SND	-33.29	23	SND
115	Min.	-41	-3005.64	25	SND	-531.29	27	SND	-62.20	19	SND	-32.62	5	SND
115	Min.	-108	-1594.35	13	SND	-531.29	27	SND	-46.93	5	SND	-32.62	5	SND
115	Min.	-107	-1516.35	25	SND	-531.29	27	SND	-48.13	23	SND	-33.29	23	SND
115	Max	-65	-857.72	27	SND	161.98	13	SND	36.73	5	SND	16.96	19	SND
115	Max	-77	-676.18	15	SND	161.98	13	SND	37.25	5	SND	17.25	19	SND
115	Max	-98	-120.48	27	SND	161.98	13	SND	27.42	19	SND	17.25	19	SND
115	Max	-110	60.99	15	SND	161.98	13	SND	26.92	19	SND	16.96	19	SND
115	Min.	-65	-1470.28	33	SLU	-160.81	27	SND	-33.30	19	SND	-17.54	5	SND
115	Min.	-77	-1467.22	33	SLU	-160.81	27	SND	-33.81	19	SND	-17.83	5	SND
115	Min.	-98	-512.71	13	SND	-160.81	27	SND	-26.03	5	SND	-17.83	5	SND
115	Min.	-110	-690.09	25	SND	-160.81	27	SND	-25.52	5	SND	-17.54	5	SND
115	Max	-17	-1045.89	27	SND	736.71	13	SND	88.57	23	SND	41.02	1	SND
115	Max	-29	-1384.34	15	SND	736.71	13	SND	86.01	23	SND	39.55	1	SND
115	Max	-107	697.01	27	SND	736.71	13	SND	62.54	1	SND	39.55	1	SND
115	Max	13	358.08	15	SND	736.71	13	SND	65.15	1	SND	41.02	1	SND
115	Min.	-17	-4064.29	13	SND	-731.39	27	SND	-80.48	1	SND	-42.31	23	SND
115	Min.	-29	-3706.49	25	SND	-731.39	27	SND	-77.87	1	SND	-40.87	23	SND
115	Min.	-107	-2225.65	13	SND	-731.39	27	SND	-59.06	23	SND	-40.87	23	SND
115	Min.	13	-1868.32	25	SND	-731.39	27	SND	-61.63	23	SND	-42.31	23	SND
116	Max	-38	-608.50	25	SND	332.14	13	SND	35.81	5	SND	12.41	19	SND
116	Max	-50	-514.68	13	SND	332.14	13	SND	36.93	5	SND	13.02	19	SND
116	Max	-104	465.28	25	SND	332.14	13	SND	6.37	19	SND	13.02	19	SND
116	Max	-105	559.36	13	SND	332.14	13	SND	5.28	19	SND	12.41	19	SND
116	Min.	-38	-1810.57	15	SND	-335.62	27	SND	-38.76	19	SND	-22.35	5	SND
116	Min.	-50	-1917.06	27	SND	-335.62	27	SND	-39.86	19	SND	-22.98	5	SND
116	Min.	-104	-688.10	15	SND	-335.62	27	SND	-44.65	5	SND	-22.98	5	SND
116	Min.	-105	-794.22	27	SND	-335.62	27	SND	-43.53	5	SND	-22.35	5	SND
116	Max	-50	-666.09	25	SND	297.05	13	SND	34.70	5	SND	12.24	19	SND
116	Max	-62	-444.50	13	SND	297.05	13	SND	35.68	5	SND	12.78	19	SND
116	Max	-103	344.00	25	SND	297.05	13	SND	6.96	19	SND	12.78	19	SND
116	Max	-104	565.83	13	SND	297.05	13	SND	5.99	19	SND	12.24	19	SND
116	Min.	-50	-1607.54	15	SND	-300.16	27	SND	-37.45	19	SND	-21.59	5	SND
116	Min.	-62	-1840.46	27	SND	-300.16	27	SND	-38.42	19	SND	-22.14	5	SND
116	Min.	-103	-554.48	15	SND	-300.16	27	SND	-42.93	5	SND	-22.14	5	SND
116	Min.	-104	-787.07	27	SND	-300.16	27	SND	-41.95	5	SND	-21.59	5	SND
116	Max	-14	-305.28	25	SND	740.99	13	SND	62.27	23	SND	22.50	1	SND
116	Max	-26	-785.69	13	SND	740.99	13	SND	59.71	23	SND	21.03	1	SND
116	Max	-106	1420.11	25	SND	740.99	13	SND	10.04	1	SND	21.03	1	SND
116	Max	3	940.43	13	SND	740.99	13	SND	12.65	1	SND	22.50	1	SND
116	Min.	-14	-3630.41	15	SND	-748.76	27	SND	-67.22	1	SND	-38.64	23	SND
116	Min.	-26	-3178.45	27	SND	-748.76	27	SND	-64.61	1	SND	-37.19	23	SND
116	Min.	-106	-1775.60	15	SND	-748.76	27	SND	-72.32	23	SND	-37.19	23	SND
116	Min.	3	-1322.64	27	SND	-748.76	27	SND	-74.88	23	SND	-38.64	23	SND
116	Max	-26	-514.22	25	SND	538.27	13	SND	48.65	23	SND	17.13	1	SND
116	Max	-38	-617.21	13	SND	538.27	13	SND	47.49	5	SND	16.45	19	SND
116	Max	-105	900.32	25	SND	538.27	13	SND	6.98	19	SND	16.45	19	SND
116	Max	-106	797.82	13	SND	538.27	13	SND	8.19	1	SND	17.13	1	SND
116	Min.	-26	-2693.13	15	SND	-543.91	27	SND	-52.62	1	SND	-30.30	23	SND
116	Min.	-38	-2610.76	27	SND	-543.91	27	SND	-51.43	19	SND	-29.64	5	SND
116	Min.	-105	-1192.81	15	SND	-543.91	27	SND	-57.73	5	SND	-29.64	5	SND
116	Min.	-106	-1109.78	27	SND	-543.91	27	SND	-58.92	23	SND	-30.30	23	SND

Relazione di calcolo

116	Max	-62	-616.50	25	SND	162.92	13	SND	25.80	5	SND	9.24	19	SND
116	Max	-74	-375.20	13	SND	162.92	13	SND	26.31	5	SND	9.53	19	SND
116	Max	2	117.71	25	SND	162.92	13	SND	5.54	19	SND	9.53	19	SND
116	Max	-103	359.13	13	SND	162.92	13	SND	5.04	19	SND	9.24	19	SND
116	Min.	-62	-1094.01	33	SLU	-164.63	27	SND	-27.77	19	SND	-16.01	5	SND
116	Min.	-74	-1275.41	27	SND	-164.63	27	SND	-28.28	19	SND	-16.30	5	SND
116	Min.	2	-271.27	15	SND	-164.63	27	SND	-31.55	5	SND	-16.30	5	SND
116	Min.	-103	-518.60	27	SND	-164.63	27	SND	-31.04	5	SND	-16.01	5	SND
117	Max	-47	-501.05	11	SND	375.79	31	SND	35.96	7	SND	18.48	17	SND
117	Max	-59	-416.11	31	SND	375.79	31	SND	37.05	5	SND	19.09	19	SND
117	Max	-101	576.17	11	SND	375.79	31	SND	33.72	19	SND	19.09	19	SND
117	Max	-100	661.15	31	SND	375.79	31	SND	32.63	17	SND	18.48	17	SND
117	Min.	-47	-1936.14	29	SND	-377.97	9	SND	-32.98	17	SND	-13.89	7	SND
117	Min.	-59	-2028.99	9	SND	-377.97	9	SND	-34.04	19	SND	-14.51	5	SND
117	Min.	-101	-816.95	29	SND	-377.97	9	SND	-14.47	5	SND	-14.51	5	SND
117	Min.	-100	-909.53	9	SND	-377.97	9	SND	-13.36	7	SND	-13.89	7	SND
117	Max	-71	-544.53	11	SND	184.34	31	SND	25.87	5	SND	13.36	19	SND
117	Max	-83	-334.16	31	SND	184.34	31	SND	26.39	5	SND	13.65	19	SND
117	Max	10	191.26	11	SND	184.34	31	SND	24.11	19	SND	13.65	19	SND
117	Max	-102	401.65	31	SND	184.34	31	SND	23.61	19	SND	13.36	19	SND
117	Min.	-71	-1111.11	29	SND	-185.41	9	SND	-23.83	19	SND	-10.26	5	SND
117	Min.	-83	-1325.35	9	SND	-185.41	9	SND	-24.33	19	SND	-10.55	5	SND
117	Min.	10	-355.97	29	SND	-185.41	9	SND	-11.06	5	SND	-10.55	5	SND
117	Min.	-102	-570.09	9	SND	-185.41	9	SND	-10.55	5	SND	-10.26	5	SND
117	Max	-59	-558.95	11	SND	336.09	31	SND	34.81	5	SND	17.93	19	SND
117	Max	-71	-364.08	31	SND	336.09	31	SND	35.79	5	SND	18.48	19	SND
117	Max	-102	454.18	11	SND	336.09	31	SND	32.65	19	SND	18.48	19	SND
117	Max	-101	649.09	31	SND	336.09	31	SND	31.68	19	SND	17.93	19	SND
117	Min.	-59	-1731.13	29	SND	-338.04	9	SND	-31.98	19	SND	-13.63	5	SND
117	Min.	-71	-1933.07	9	SND	-338.04	9	SND	-32.95	19	SND	-14.19	5	SND
117	Min.	-102	-680.96	29	SND	-338.04	9	SND	-14.58	5	SND	-14.19	5	SND
117	Min.	-101	-882.66	9	SND	-338.04	9	SND	-13.60	5	SND	-13.63	5	SND
117	Max	-23	-132.27	11	SND	838.37	31	SND	62.70	23	SND	32.46	1	SND
117	Max	-35	-538.56	31	SND	838.37	31	SND	60.13	23	SND	30.98	1	SND
117	Max	-99	1602.27	11	SND	838.37	31	SND	54.71	1	SND	30.98	1	SND
117	Max	19	1196.11	31	SND	838.37	31	SND	57.32	1	SND	32.46	1	SND
117	Min.	-23	-3836.60	29	SND	-843.25	9	SND	-57.90	1	SND	-24.94	23	SND
117	Min.	-35	-3448.04	9	SND	-843.25	9	SND	-55.29	1	SND	-23.49	23	SND
117	Min.	-99	-1990.49	29	SND	-843.25	9	SND	-23.27	23	SND	-23.49	23	SND
117	Min.	19	-1601.22	9	SND	-843.25	9	SND	-25.84	23	SND	-24.94	23	SND
117	Max	-35	-366.77	11	SND	609.01	31	SND	48.98	23	SND	25.24	1	SND
117	Max	-47	-449.45	31	SND	609.01	31	SND	47.70	7	SND	24.51	17	SND
117	Max	-100	1053.84	11	SND	609.01	31	SND	43.27	17	SND	24.51	17	SND
117	Max	-99	971.24	31	SND	609.01	31	SND	44.57	1	SND	25.24	1	SND
117	Min.	-35	-2866.13	29	SND	-612.55	9	SND	-45.04	1	SND	-19.14	23	SND
117	Min.	-47	-2796.30	9	SND	-612.55	9	SND	-43.73	17	SND	-18.43	7	SND
117	Min.	-100	-1371.57	29	SND	-612.55	9	SND	-17.70	7	SND	-18.43	7	SND
117	Min.	-99	-1301.27	9	SND	-612.55	9	SND	-18.97	23	SND	-19.14	23	SND
118	Max	-76	-418.50	19	SND	498.88	5	SND	40.26	25	SND	22.56	15	SND
118	Max	-77	-1114.52	7	SND	498.88	5	SND	39.42	27	SND	22.07	13	SND
118	Max	-98	574.50	19	SND	498.88	5	SND	38.63	13	SND	22.07	13	SND
118	Max	6	-276.66	7	SND	498.88	5	SND	39.50	15	SND	22.56	15	SND
118	Min.	-76	-3331.43	5	SND	-482.73	19	SND	-40.57	15	SND	-22.38	25	SND
118	Min.	-77	-2464.34	33	SLU	-482.73	19	SND	-39.71	13	SND	-21.91	27	SND
118	Min.	-98	-1772.77	5	SND	-482.73	19	SND	-38.35	27	SND	-21.91	27	SND
118	Min.	6	-1024.76	33	SLU	-482.73	19	SND	-39.20	25	SND	-22.38	25	SND
118	Max	-77	-964.05	19	SND	405.42	5	SND	35.05	27	SND	19.62	13	SND
118	Max	-78	-168.02	7	SND	405.42	5	SND	34.41	27	SND	19.25	13	SND
118	Max	5	-61.13	19	SND	405.42	5	SND	33.69	13	SND	19.25	13	SND
118	Max	-98	612.33	7	SND	405.42	5	SND	34.35	13	SND	19.62	13	SND
118	Min.	-77	-2016.30	33	SLU	-392.30	19	SND	-35.31	13	SND	-19.48	27	SND
118	Min.	-78	-2594.59	17	SND	-392.30	19	SND	-34.65	13	SND	-19.12	27	SND
118	Min.	5	-618.09	5	SND	-392.30	19	SND	-33.46	27	SND	-19.12	27	SND
118	Min.	-98	-1367.74	17	SND	-392.30	19	SND	-34.10	27	SND	-19.48	27	SND
119	Max	-22	-1080.02	1	SND	711.05	23	SND	76.12	9	SND	42.04	31	SND
119	Max	-23	-2098.43	21	SND	711.05	23	SND	80.66	9	SND	44.55	31	SND
119	Max	19	1025.44	1	SND	711.05	23	SND	77.97	31	SND	44.55	31	SND
119	Max	20	-1525.94	21	SND	711.05	23	SND	73.50	31	SND	42.04	31	SND
119	Min.	-22	-6339.83	23	SND	-925.37	1	SND	-75.73	31	SND	-42.26	9	SND
119	Min.	-23	-4745.09	33	SLU	-925.37	1	SND	-80.19	31	SND	-44.81	9	SND
119	Min.	19	-2650.68	23	SND	-925.37	1	SND	-78.42	9	SND	-44.81	9	SND
119	Min.	20	-3158.27	33	SLU	-925.37	1	SND	-73.88	9	SND	-42.26	9	SND
120	Max	-19	-96.78	1	SND	438.44	23	SND	38.86	27	SND	21.88	13	SND
120	Max	-20	-1194.69	21	SND	438.44	23	SND	40.31	11	SND	22.66	29	SND
120	Max	16	773.44	1	SND	438.44	23	SND	39.78	29	SND	22.66	29	SND
120	Max	17	-143.48	27	SND	438.44	23	SND	38.41	13	SND	21.88	13	SND
120	Min.	-19	-3001.98	23	SND	-426.73	1	SND	-39.26	13	SND	-21.66	27	SND
120	Min.	-20	-2189.28	33	SLU	-426.73	1	SND	-40.68	29	SND	-22.46	11	SND
120	Min.	16	-1624.26	23	SND	-426.73	1	SND	-39.42	11	SND	-22.46	11	SND

Relazione di calcolo

120	Min.	17	-518.94	33	SLU	-426.73	1	SND	-38.03	27	SND	-21.66	27	SND
120	Max	-20	-1732.52	1	SND	981.17	23	SND	67.06	11	SND	37.71	29	SND
120	Max	-21	-253.47	21	SND	981.17	23	SND	71.18	11	SND	39.99	29	SND
120	Max	18	-646.53	1	SND	981.17	23	SND	70.24	29	SND	39.99	29	SND
120	Max	16	1244.30	21	SND	981.17	23	SND	66.19	29	SND	37.71	29	SND
120	Min.	-20	-4350.26	23	SND	-954.96	1	SND	-67.68	29	SND	-37.37	11	SND
120	Min.	-21	-6148.31	3	SND	-954.96	1	SND	-71.74	29	SND	-39.69	11	SND
120	Min.	18	-2003.81	33	SLU	-954.96	1	SND	-69.71	11	SND	-39.69	11	SND
120	Min.	16	-3240.32	3	SND	-954.96	1	SND	-65.59	11	SND	-37.37	11	SND
121	Max	-16	-426.19	1	SND	494.17	23	SND	40.26	25	SND	22.55	15	SND
121	Max	-17	-1124.13	21	SND	494.17	23	SND	39.42	27	SND	22.07	13	SND
121	Max	13	566.72	1	SND	494.17	23	SND	38.63	13	SND	22.07	13	SND
121	Max	14	-286.92	21	SND	494.17	23	SND	39.50	15	SND	22.55	15	SND
121	Min.	-16	-3324.83	23	SND	-479.14	1	SND	-40.57	15	SND	-22.38	25	SND
121	Min.	-17	-2468.00	33	SLU	-479.14	1	SND	-39.71	13	SND	-21.91	27	SND
121	Min.	13	-1766.09	23	SND	-479.14	1	SND	-38.35	27	SND	-21.91	27	SND
121	Min.	14	-1028.43	33	SLU	-479.14	1	SND	-39.20	25	SND	-22.38	25	SND
121	Max	-17	-970.62	1	SND	401.60	23	SND	35.05	27	SND	19.62	13	SND
121	Max	-18	-174.40	21	SND	401.60	23	SND	34.41	27	SND	19.25	13	SND
121	Max	15	-67.76	1	SND	401.60	23	SND	33.69	13	SND	19.25	13	SND
121	Max	13	605.45	21	SND	401.60	23	SND	34.35	13	SND	19.62	13	SND
121	Min.	-17	-2017.11	33	SND	-389.38	1	SND	-35.31	13	SND	-19.48	27	SND
121	Min.	-18	-2592.58	3	SND	-389.38	1	SND	-34.65	13	SND	-19.12	27	SND
121	Min.	15	-612.57	23	SND	-389.38	1	SND	-33.46	27	SND	-19.12	27	SND
121	Min.	13	-1365.22	3	SND	-389.38	1	SND	-34.10	27	SND	-19.48	27	SND
122	Max	-14	-1589.63	1	SND	540.25	23	SND	45.03	27	SND	24.66	13	SND
122	Max	-15	-1024.10	21	SND	540.25	23	SND	44.03	27	SND	24.08	13	SND
122	Max	12	-1127.91	9	SND	540.25	23	SND	41.94	13	SND	24.08	13	SND
122	Max	3	514.48	21	SND	540.25	23	SND	42.96	13	SND	24.66	13	SND
122	Min.	-14	-3210.40	33	SLU	-314.62	1	SND	-44.56	13	SND	-24.91	27	SND
122	Min.	-15	-3731.05	3	SND	-314.62	1	SND	-43.54	13	SND	-24.35	27	SND
122	Min.	12	-2328.25	33	SLU	-314.62	1	SND	-42.41	27	SND	-24.35	27	SND
122	Min.	3	-1497.20	3	SND	-314.62	1	SND	-43.41	27	SND	-24.91	27	SND
123	Max	-82	-1079.47	19	SND	720.74	5	SND	76.12	9	SND	42.04	31	SND
123	Max	-83	-2073.91	7	SND	720.74	5	SND	80.66	9	SND	44.55	31	SND
123	Max	10	1028.16	19	SND	720.74	5	SND	77.97	31	SND	44.55	31	SND
123	Max	11	-1502.51	7	SND	720.74	5	SND	73.50	31	SND	42.04	31	SND
123	Min.	-82	-6350.33	5	SND	-932.31	19	SND	-75.73	31	SND	-42.26	9	SND
123	Min.	-83	-4745.20	33	SLU	-932.31	19	SND	-80.19	31	SND	-44.81	9	SND
123	Min.	10	-2663.35	5	SND	-932.31	19	SND	-78.42	9	SND	-44.81	9	SND
123	Min.	11	-3158.37	33	SLU	-932.31	19	SND	-73.88	9	SND	-42.26	9	SND
124	Max	-79	-87.19	19	SND	443.13	5	SND	38.86	27	SND	21.88	13	SND
124	Max	-80	-1186.75	7	SND	443.13	5	SND	40.31	11	SND	22.67	29	SND
124	Max	7	783.03	19	SND	443.13	5	SND	39.78	29	SND	22.67	29	SND
124	Max	8	-138.96	15	SND	443.13	5	SND	38.41	13	SND	21.88	13	SND
124	Min.	-79	-3010.50	5	SND	-430.29	19	SND	-39.26	13	SND	-21.66	27	SND
124	Min.	-80	-2185.66	33	SLU	-430.29	19	SND	-40.68	29	SND	-22.46	11	SND
124	Min.	7	-1632.79	5	SND	-430.29	19	SND	-39.42	11	SND	-22.46	11	SND
124	Min.	8	-516.90	25	SND	-430.29	19	SND	-38.03	27	SND	-21.66	27	SND
124	Max	-80	-1712.85	19	SND	991.64	5	SND	67.06	11	SND	37.71	29	SND
124	Max	-81	-237.06	7	SND	991.64	5	SND	71.18	11	SND	39.99	29	SND
124	Max	9	-626.81	19	SND	991.64	5	SND	70.25	29	SND	39.99	29	SND
124	Max	7	1261.22	7	SND	991.64	5	SND	66.19	29	SND	37.71	29	SND
124	Min.	-80	-4369.30	5	SND	-962.91	19	SND	-67.68	29	SND	-37.37	11	SND
124	Min.	-81	-6155.12	17	SND	-962.91	19	SND	-71.74	29	SND	-39.69	11	SND
124	Min.	9	-2003.39	33	SLU	-962.91	19	SND	-69.71	11	SND	-39.69	11	SND
124	Min.	7	-3247.64	17	SND	-962.91	19	SND	-65.59	11	SND	-37.37	11	SND
125	Max	-74	-1583.27	19	SND	546.20	5	SND	45.03	27	SND	24.66	13	SND
125	Max	-75	-1023.74	7	SND	546.20	5	SND	44.03	27	SND	24.08	13	SND
125	Max	4	-1129.57	29	SND	546.20	5	SND	41.94	13	SND	24.08	13	SND
125	Max	2	516.42	7	SND	546.20	5	SND	42.96	13	SND	24.66	13	SND
125	Min.	-74	-3216.85	33	SLU	-319.22	19	SND	-44.56	13	SND	-24.91	27	SND
125	Min.	-75	-3735.61	17	SND	-319.22	19	SND	-43.54	13	SND	-24.35	27	SND
125	Min.	4	-2334.71	33	SLU	-319.22	19	SND	-42.41	27	SND	-24.35	27	SND
125	Min.	2	-1503.33	17	SND	-319.22	19	SND	-43.41	27	SND	-24.91	27	SND

Sollecitazioni elementi bidimensionali

Simbologia

Bid.=Numero del muro/elemento bidimensionale

Nodo=Numero del nodo

σ_{xx} =Tensione normale sulle facce perp. all'asse X

CC =Numero della combinazione delle condizioni di carico elementari

TCC =Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

SLE F = Stato limite d'esercizio, combinazione frequente

SLE Q = Stato limite d'esercizio, combinazione quasi permanente

SLD = Stato limite di danno

Relazione di calcolo

SLV = Stato limite di salvaguardia della vita
 SLC = Stato limite di prevenzione del collasso
 SLO = Stato limite di operatività
 SLU I = Stato limite di resistenza al fuoco
 SND = Stato limite di salvaguardia della vita (non dissipativo)
 σ_{zz} = Tensione normale sulle facce perp. all'asse Z
 τ_{xz} = Tensione in dir. Z sulle facce perp. all'asse X
 M_{xx} = Momento che provoca variazione di tensione sulle facce perp. all'asse X
 M_{zz} = Momento che provoca variazione di tensione sulle facce perp. all'asse Z
 M_{xz} = Momento che provoca variazione di tensione tangenziale sulle facce perp. all'asse X
 τ_{zy} = Tensione in dir. Y sulle facce perp. all'asse Z
 τ_{xy} = Tensione in dir. Y sulle facce perp. all'asse X

Bid. 402

	CC	TCC	Nodo	Min.	CC	TCC	Nodo	Max		CC	TCC	Nodo	Min.	CC	TCC	Nodo	Max
σ_{xx} <daN/mq>	33	SLU	-82	-0	33	SLU	-57	0	σ_{zz} <daN/mq>	5	SND	-60	-0	17	SND	-62	0
τ_{xz} <daN/mq>	21	SND	-63	-0	33	SLU	-70	0	M_{xx} <daNm/m>	33	SLU	-46	-289	33	SLU	-81	374
M_{zz} <daNm/m>	33	SLU	-45	-509	33	SLU	-54	360	M_{xz} <daNm/m>	33	SLU	-56	-93	33	SLU	-53	97
τ_{zy} <daN/mq>	33	SLU	-55	-5643	33	SLU	-53	5815	τ_{xy} <daN/mq>	33	SLU	-95	-2876	33	SLU	-69	4998

Criteri di progetto utilizzati

Travi in c.a.

Generali	
Parametri di progetto	
Passo di progettazione <m>	0.30
Tipo di sollecitazioni zone rigide	Costanti
Min. angolo per spinte a vuoto <grad>	10.00
Invertire i ferri anche in presenza di pilastro sottostante	Si
Max differenza larghezza travi continue <cm>	5.00
Progetta a taglio con traliccio ad inclinazione variabile	Si
-Classe A	
-In zona critica limita ctg θ a	1.00
-In zona non critica limita ctg θ a	2.50
-Classe B	
-In zona critica limita ctg θ a	2.50
-In zona non critica limita ctg θ a	2.50
Verifiche a taglio per elementi esistenti come per elementi nuovi	Si
Lunghezze e arrotondamenti	
Max lunghezza barre <m>	12.00
Arrotondamento lunghezza ferri <cm>	50.00
Lunghezza ferri nei muri d'estremità <m>	1.20
Min. interferro ammissibile <cm>	2.00
Elenco diametri minimizzazione interferri <mm>	16 18 20 22
Riduzione ancoraggi	
-Nella zona compressa per flessione	No
-Nei punti inferiori della travata	Si
Considerare nel calcolo degli ancoraggi i risvolti specificati nei criteri generali di disegno	No
Risvoltare i ferri per garantire l'ancoraggio agli estremi della trave	No
Reggistaffe	
Interruzione reggistaffe in campata	No
Modalità di sovrapposizione reggistaffe	Per garantire la copertura del momento negativo
Modalità di unificazione reggistaffe	Solo se la geometria della travata e la lunghezza totale delle barre lo consentono
Minimi di regolamento	
Min. percentuale di regolamento	
-Per le travi di fondazione	No
-Per le travi di elevazione	Si
Min. di armatura a taglio (T.A. o S.L. D.M.96)	
-Per le travi di fondazione	No
-Per le travi di elevazione	No
Tipo di armatura per taglio (T.A.)	Mista
Controllo passo e 12Fi	Si
Min. di regolamento a torsione nell'ala	No
Min. di regolamento nell'ala	No
Stampe	
Verifiche a flessione in relazione	Minimizzate
Verifiche a taglio in relazione	Max scorrimento per taglio e torsione

Relazione di calcolo

Parametri di disegno	
Scala disegno travi	50.00
Scala disegno sezioni	25.00
Campitura sezioni	Fitta
Disegno sezione travi in falso	Si
Disegna sezioni	Si
-Disegno ferri nelle sezioni	No
Campitura travi in falso	Fitta
Campitura muri	Rada
Tipo di quotatura luci nette trave	Con riferimento ai pilastri superiori
Lunghezza monconi di pilastro	Minimizzata
Linee di riferimento quote	Si
Quotatura zone di staffatura	No
Quotatura zone di staffatura	No
Indicazione numero bracci staffe	Solo se il numero è maggiore di due
Disegno ferri longitudinali	
Disegno ferri dentro la trave	Si
Disegno esploso ferri di parete	No
Distanza fra ferri esplosi <cm>	0.10
Disegno reggistaffe aggiuntivi per travi a T e L	Reggistaffe aggiuntivi tipo 3
Disegno staffe	
Posizione staffe esterne	In automatico
Disegno staffe dentro la sezione	Si

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

Relazione di calcolo

-Gravitazionale	
-Dal calcolo	x
Parametri di calcolo	
Progetto a pressoflessione	Si
-Per tutte le travi	
-Solo per travi inclinate	x
-Min. angolo per pressoflessione <grad>	10.00
-Compressione massima senza progetto a pressoflessione <%>	10.00
Progetto a torsione	No
-Trazione senza progetto a torsione<%>	
Armatura secondo Circ. 65 del 10/04/97	No
Parametri di progetto secondo il D.M. 18	
Elemento dissipativo	Si
Trascura gerarchia	No
Limita verifica a taglio ad elemento non dissipativo	Si
Elemento secondario	No
Sollecitazioni dissipative amplificate per elementi di fondazione	Si
Escludi dal calcolo sovrarresistenza per pilastri incidenti	No
Sollecitazioni complanari ad eventuali elementi bidimensionali	No
Copriferro teorico superiore <cm>	3.50
Copriferro teorico inferiore <cm>	3.50
Min. momento fittizio agli appoggi	No
-Denominatore	
Min. momento fittizio in campata	No
-Denominatore	
Incremento percentuale momento in campata <%>	10.00
Usa taglio max per traslazione momento (S.L.)	Si
Limitare momento traslato al valore max di appoggio (S.L.)	No
Limitare momento traslato al valore max di campata (S.L.)	No
Taglio da momento resistente in fondazione (S.L.)	No
Tipo di progetto in doppia armatura (T.A.)	
-Tensioni pari ai valori amm.	
-Tensioni pari ai valori amm. con AfComp/AfTesa minore o pari a	1.00
-Con AfComp/AfTesa pari a	
Parametri di progettazione armatura	
Max differenza fra diametri per unificazioni	2.00
Max distanza fra barre per unificazioni <m>	1.00
Denominatore per individuazione zona di campata	32.00
Fattore di copertura appoggi (0÷1)	0.00
Fattore di riduzione per ancoraggio ferri	1.00
Minimizzazione momenti resistenti di appoggio (stati limite D.M. 18)	Si
-Tolleranza di copertura da sovrapposizione <%>	10.00
Tipo di distribuzione armatura eccedente in fase di verifica	
-Ripartita proporzionalmente per flessione, torsione e taglio	x
-Tutta agente per flessione	
-Tutta agente per taglio	
Armatura a flessione	
Elenco diametri ferri longitudinali 1 <mm>	12
Elenco diametri ferri longitudinali 2 <mm>	16
Elenco diametri ferri longitudinali 3 <mm>	20
Elenco diametri ferri longitudinali 4 <mm>	24
Elenco diametri ferri longitudinali 5 <mm>	
Elenco diametri ferri longitudinali 6 <mm>	
Elenco diametri ferri longitudinali 7 <mm>	
Max differenza fra diametri nella trave	8.00
Max differenza fra diametri ferri accoppiati	4.00
Reggistaffe superiori	
-Numero	
-Automatico	
-Pari a	2.00
-Max mutua distanza <cm>	
-Diametro	
-Automatico	x
-Pari a <mm>	
-Minimo <mm>	
Reggistaffe inferiori	
-Numero	
-Automatico	
-Pari a	2.00
-Max mutua distanza <cm>	
-Diametro	
-Automatico	x
-Pari a <mm>	
-Minimo <mm>	
Armatura a taglio	

Relazione di calcolo

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

Relazione di calcolo

Elenco diametri staffe orizzontali 7 <mm>	
Parametri di disegno	
Copriferro per calcolo lunghezza ferri <cm>	4.90
Risvolto ferri superiori	Si
-Pari a <cm>	25.00
-Pari all'altezza della trave	
-Pari alla minima altezza delle travi incidenti	
Risvolto ferri inferiori	Si
-Pari a <cm>	25.00
-Pari all'altezza della trave	
-Pari alla minima altezza delle travi incidenti	
Risvolto ferri laterali	Si
-Pari a <cm>	25.00
-Pari alla larghezza della trave	
Magrone	Si
-Allargamento laterale <cm>	0.00
-Altezza <cm>	20.00
Dati per progettazione interattiva sezioni	
Copriferro reale al bordo staffa <cm>	3.50
Diametro staffa teorica <mm>	8.00
Distanza fra ferri su più strati <cm>	1.00
Integrare lo scorrimento lungo il tratto	Si
-Lunghezza del tratto <m>	1.00
Dati per progettazione agli stati limite	
Gruppo di esigenza	
-Ambiente poco aggressivo	x
-Ambiente moderatamente aggressivo	
-Ambiente molto aggressivo	
Usa dominio N-M per flessioni rette	Si
-Ricerca della sicurezza con sforzo normale costante	
-Ricerca della sicurezza con eccentricità costante	x
Controllo rapporto X/D	Si
Barre da considerare tese per verifiche a taglio	
-Solo le barre con deformazione percentuale rispetto alla barra più tesa non inferiore al <%>	30.00
-Tutte le barre in trazione	
Dati per verifiche di resistenza al fuoco	
-Tempo di verifica (REI) <minuti>	120.00
Dimensione MESH <cm>	2.00
-Passo di calcolo <secondi>	10.00
-Temperatura ambiente <C°>	20.00
-Coeff. di convezione a temperatura ambiente <W/mq K>	9.00
Calcestruzzo	
-Tipo di aggregati	SILICEI
-Massa volumica a secco <kg/mc>	2300.00
-Umidità iniziale <%>	3.00
-Fattore di interpolazione conducibilità	0.50
Dati per verifiche FRP	
Rinforzo longitudinale	
Tipo di fibra/resina	
-Vetro/Epossidica	
-Arammidica/Epossidica	
-Carbonio/Epossidica	x
Resistenza caratteristica(f_{fk}) <daN/cm ² >	49000.00
Modulo elastico(E_c) <daN/cm ² >	2500000.00
Deformazione caratteristica a rottura per trazione(ϵ_{fk}) <%>	2.00
Spessore equivalente(t_r) <mm>	0.17
Sistemi di rinforzo	
-Preformati	
-Impregnati in situ	x
Rinforzo trasversale	
Tipo di fibra/resina	
-Vetro/Epossidica	
-Arammidica/Epossidica	
-Carbonio/Epossidica	x
Resistenza caratteristica(f_{fk}) <daN/cm ² >	49000.00
Modulo elastico(E_c) <daN/cm ² >	2500000.00
Deformazione caratteristica a rottura per trazione(ϵ_{fk}) <%>	2.00
Spessore equivalente(t_r) <mm>	0.17
Sistemi di rinforzo	
-Preformati	
-Impregnati in situ	x
Modalità di carico	
-Lungo termine	x

Relazione di calcolo

-Ciclico	
Coeff. parziale SLU di distacco(γ_{rd})	1.50
Fattore di conversione ambientale(η_a)	0.95
Raggio di arrotondamento spigoli(r_c) <cm>	2.00
Coeff. condizione di carico(K_q)	1.25

Murature

Generali	
Verifiche per azioni statiche	
Calcolo dei momenti	Con momenti ricalcolati con metodo semplificato
Esegui verifiche a pressoflessione e a taglio nel piano	No
Esegui verifiche anche in sommità dell'ultimo piano	No
Verifiche per azioni sismiche	
Utilizza modello definito per pareti	
Trascura eccentricità aggiuntive (D.M. 92/96)	Si
Trascura tagli e momenti statici nel piano	Si
Esegui verifiche anche in sommità dell'ultimo piano	No
Travi di accoppiamento in c.a. o acciaio	
Comportamento travi di accoppiamento	Trascura resistenza in presenza di altri elementi di accoppiamento in muratura
Analisi sismica non lineare	
Considera collaboranti anche pilastri in c.a. e/o acciaio	No
Considera collaboranti anche pareti in c.a.	No
Crea collegamenti fra pareti	No
Calcola con zone rigide	Si
-Valuta spostamenti ultimi al netto delle zone rigide	Si
-Valuta spostamenti ultimi trascurando le rotazioni rigide	Si
Calcola spostamenti di danno e operatività a livello di maschio o parete	Si
-Valuta spostamenti al netto delle zone rigide	Si
-Valuta spostamenti trascurando le rotazioni rigide	Si
Verifiche meccanismi locali di collasso	
Verifica cinematici	Si
Tipo di analisi	-Cinematica non lineare
-Verifica anche stato limite di danno	No
Verifica cinematici con cunei di rottura (pareti ben ammorsate)	-Solo per muratura nuova
-Considera solo cunei di rottura interessanti tutto il cinematismo	No
-Angolo di generazione del cuneo di rottura <grad>	30.00
Verifica cinematici senza cunei di rottura	-Solo per muratura esistente
-Verifica cinematici a flessione verticale	Si
Parametri di disegno muratura armata	
Eliminare le quotature esterne ed interne	No
Eliminare le quotature dei pilastri	No
Eliminare le dimensioni delle travi e dei muri	Si
Eliminare la numerazione delle travi e dei muri	Si
Eliminare le campiture	Si
Eliminare il disegno del cerchio intorno al numero del pilastro	No
Stampe	
Stampa dettaglio evoluzione per passi	No
-Stampa dettaglio evoluzione per elementi	No
-Stampa solo passi significativi	Si
Raggruppa in un'unica tabella	Si
Riporta in relazione il disegno dello schema del cinematismo	Si
Riporta in relazione il disegno della curva carico-spostamento	Si

Specifici		4
Materiali		
Muratura		
-Considera come elementi esistenti		Si
-Livello di conoscenza		LC2
-Fattore di confidenza		1.20
Resistenza a taglio		
-Scorrimento		
-Fessurazione diagonale su tessitura irregolare		x
-Fessurazione diagonale su tessitura regolare		
-Resistenza caratteristica a compressione nulla (f_{vk0}) <daN/cm ² >		0.00
-Resistenza caratteristica massima a taglio ($f_{vk,lim}$) <daN/cm ² >		0.00
-Resistenza media a compressione nulla (τ_0) <daN/cm ² >		1.25
-Resistenza media a compressione nulla (f_{v0}) <daN/cm ² >		2.80
-Coefficiente di attrito (μ)		0.58
-Coefficiente di ingranamento (ϕ)		1.00
-Resistenza a trazione blocchi (f_{bt}) <daN/cm ² >		40.00
-Resistenza a compressione (f_k) <daN/cm ² >		65.00
-Resistenza a compressione per forze orizzontali (f_{hk}) <daN/cm ² >		6.50
-Modulo elastico (E) <daN/cm ² >		45500.00
-Modulo elastico tangenziale (G) <daN/cm ² >		11375.00
-Acciaio per muratura armata		
-Tipo di acciaio (B450A÷B450C)		B450C
-Modulo elastico <daN/cm ² >		2.06E+06

Relazione di calcolo

-Tensione caratteristica di snervamento (F_{yk}) <daN/cm ² >	4500.00
- γ_s per stati limite ultimi	
-Automatico	x
-Pari a	
Verifiche per azioni statiche	
Coeff. γ per verifiche per carichi verticali secondo D.M. 18	2.00
Lunghezza appoggio solai	
-Pari a <cm>	
-Come multiplo dello spessore del maschio pari a	0.66
Trascura eccentricità per solai continui	Si
Verifiche per azioni sismiche	
Coeff. γ per verifiche per azioni sismiche secondo D.M. 18	2.00
Resistenza ad azioni sismiche nel piano	
-Maschio o parete non resistente	
-Maschio o parete non resistente se L/H minore di	0.30
Considera appoggio sui solai anche per carichi sismici	Si
Verifiche con metodo POR	
Precompressione verticale (σ_y) <daN/cm ² >	0.00
Precompressione orizzontale (σ_x) <daN/cm ² >	0.00
Duttilità (μ)	1.50
Comportamento maschi e pareti	
Plasticizzazione per taglio	Si
Rottura a taglio	Si
-Spostamento ultimo per muratura esistente <%>	0.40
-Spostamento ultimo per muratura nuova <%>	0.40
Plasticizzazione per pressoflessione	Si
Rottura per pressoflessione	Si
-Spostamento ultimo per muratura esistente <%>	0.60
-Spostamento ultimo per muratura nuova <%>	0.80
Comportamento travi di accoppiamento in muratura	
Elementi in muratura sopra il piano	
-Trascura completamente resistenza	
-Considera solo in presenza di elemento sottostante in c.a. o acciaio	x
-Considera ipotizzando elemento con resistenza a trazione pari a <daN>	
Elementi in muratura sotto il piano	
-Trascura completamente resistenza	
-Considera solo in presenza di elemento sottostante in c.a. o acciaio	
-Considera solo in presenza di elemento sottostante o sovrastante in c.a. o acciaio	x
-Considera ipotizzando elemento con resistenza a trazione pari a <daN>	
Modalità di rottura a taglio	
-Comportamento elastico plastico indefinito	
-Comportamento elastico plastico-fragile	
-Comportamento elastico-fragile	x
-Spostamento ultimo per muratura esistente <%>	0.00
-Spostamento ultimo per muratura nuova <%>	0.00
Modalità di rottura per pressoflessione	
-Comportamento elastico plastico indefinito	
-Comportamento elastico plastico-fragile	
-Comportamento elastico-fragile	x
-Spostamento ultimo per muratura esistente <%>	0.00
-Spostamento ultimo per muratura nuova <%>	0.00
Parametri di progetto muratura armata	
Armatura verticale concentrata negli incroci/spigoli	
-Diametro <mm>	16.00
-Armatura nella prima posizione	
-Tipo 1	x
-Tipo 2	
-Tipo 3	
-Tipo 4	
-Tipo 5	
-Distanza fra ferri <cm>	2.00
-Armatura nella seconda posizione	No
-Tipo 1	x
-Tipo 2	
-Tipo 3	
-Tipo 4	
-Tipo 5	
-Distanza dalla prima posizione <cm>	25.00
-Distanza fra ferri <cm>	2.00
-Armatura nella terza posizione	No
-Tipo 1	x
-Tipo 2	
-Tipo 3	

Relazione di calcolo

-Tipo 4	
-Tipo 5	
-Distanza dalla seconda posizione <cm>	25.00
-Distanza fra ferri <cm>	2.00
Armatura distribuita	
-Diametro <mm>	10.00
-Passo <cm>	150.00
Armatura orizzontale	
-Copriferro <cm>	5.00
-Diametro <mm>	6.00
-Passo <cm>	40.00
Lunghezza ancoraggi armature <m>	1.00

Solette/Platee

Generali	
Parametri di progetto	
Controllo resistenza a taglio allo S.L.U. DM 96	No
Progetto e verifica con metodo d'integrazione	No
-Massima dimensione della linea d'integrazione	1.00
Verifica con taglio totale	No
Calcolo armature con metodo di Wood	No
Accoppia pilastri per calcolo punzonamento	Si
-Massima distanza come un moltiplicatore dello spessore	1.50
Verifiche a taglio per elementi esistenti come per elementi nuovi	Si
Parametri di disegno	
Disposizione disegno	2A
Particolari nel disegno principale	
-Eliminare le quotature	No
-Eliminare le campiture	No
-Eliminare la numerazione dei pilastri	No
-Eliminare la numerazione delle travi e dei muri	No
Particolari nei disegni secondari	
-Eliminare le quotature	Si
-Eliminare le campiture	Si
-Eliminare la numerazione dei pilastri	Si
-Eliminare la numerazione delle travi e dei muri	Si
Disegno armatura diffusa	No
Posizione particolari punzonamento	In automatico
Copriferro per calcolo lunghezza ferri <cm>	3.50
Risvoltare al bordo i ferri	
-Inferiori	Si
-Superiori	Si
Lunghezza risvolti ferri al bordo	Pari all'altezza meno due volte il copriferro
Disegno particolare ferri al bordo	Si
Scala disegno particolare ferri al bordo	20.00
Calcolo lunghezza ferri semplificato	No
Stampe	
Tipo di relazione	Sintetica

Specifici	1
Materiali	
-Considera come elemento esistente	No
-Calcestruzzo	
-Livello di conoscenza	LC2
-Fattore di confidenza	1.20
-Tipo di calcestruzzo	C28/35
-Rck calcestruzzo	350.00
-Modulo elastico <daN/cmq>	325881.00
-Resistenza caratteristica cilindrica (Fck)	290.50
-Resistenza caratteristica a trazione (Fctk)	19.84
-Resistenza media (Fcm) <daN/cmq>	370.50
-Resistenza media a trazione (Fctm) <daN/cmq>	28.35
-σ amm. calcestruzzo <daN/cmq>	110.00
-τc0 <daN/cmq>	6.70
-τc1 <daN/cmq>	19.70
-Riduci Fcd per tutte le verifiche secondo il D.M. 18	Si
-γc per stati limite ultimi	
-Automatico	x
-Pari a	
-Acciaio	
-Livello di conoscenza	LC2
-Fattore di confidenza	1.20

Relazione di calcolo

-Tipo di acciaio	B450C
-Modulo elastico <daN/cm²>	2060000.00
-Tensione caratteristica di snervamento (Fyk) <daN/cm²>	4500.00
-Tensione media di snervamento (Fym) <daN/cm²>	4500.00
-Sigma amm. acciaio <daN/cm²>	2600.00
-Sigma amm. reti e tralicci <daN/cm²>	2600.00
-Allungamento per verifiche di duttilità (Agt) <%>	4.00
-γs per stati limite ultimi	
-Automatico	X
-Pari a	
-Coeff. di omogeneizzazione	15.00
Parametri di calcolo	
Parametri di progetto secondo il D.M. 18	
-Elemento dissipativo	No
-Sollecitazioni dissipative amplificate per elementi di fondazione	Si
Angolo d'armatura <grad>	0.00
Copriferro teorico superiore <cm>	3.00
Copriferro teorico inferiore <cm>	3.00
Tipo di progetto in doppia armatura	
-Tensione pari ai valori amm.	
-Tensione pari ai valori amm. con AfComp/AfTesa minore o pari a	1.00
-Tensione pari ai valori amm. con AfComp/AfTesa pari a	
Min. percentuale di regolamento	
-Platee di fondazione su suolo elastico	No
-Solette di elevazione	Si
Controlla min. armatura di ripartizione	No
Armatura a flessione	
Elenco diametri utilizzabili 1 <mm>	10
Elenco diametri utilizzabili 2 <mm>	12
Elenco diametri utilizzabili 3 <mm>	14
Elenco diametri utilizzabili 4 <mm>	16
Elenco diametri utilizzabili 5 <mm>	
Elenco diametri utilizzabili 6 <mm>	
Elenco diametri utilizzabili 7 <mm>	
Passi utilizzabili	
-Minimo <cm>	15.00
-Massimo <cm>	30.00
-Incremento <cm>	5.00
Uniformizzazione interassi armatura	No
-Sempre	
-Nella stessa direzione	
-Nella stessa posizione	
Uniformizzazione diametri armatura	No
-Sempre	
-Nella stessa direzione	
-Nella stessa posizione	
Tipo di ottimizzazione armatura a flessione	
-Minimizza il numero dei ferri	
-Minimizza il peso complessivo dei ferri	X
Verifiche a taglio	
-Escludi punti di verifica sotto piramidi di punzonamento	No
-Escludi punti di verifica sotto muri/bidimensionali	No
Ancoraggi	
Fattore di riduzione per ancoraggio ferri	1.00
Lunghezza ancoraggi armature	
-Calcolata in funzione della Sigmaf	X
-Imposta come multiplo del diametro	
Lunghezza ancoraggi ferri punzonamento	
-Calcolata in funzione della Sigmaf	X
-Imposta come multiplo del diametro	
Armatura a punzonamento	
Fattore di riduzione altezza soletta/platea	0.90
Modifica altezza soletta/platea	Si
Allargamento piastra pilastri in acciaio <cm>	5.00
Distanza dal bordo libero	
-Distanza come un moltiplicatore dello spessore	1.00
-Distanza imposta a <cm>	
Moltiplicatore altezza utile per valutare perimetro efficace (D.M. 18)	2.00
Tolleranza di posizionamento barre	
-Distanza come un moltiplicatore dello spessore	0.10
-Distanza imposta a <cm>	
Elenco diametri utilizzabili 1 <mm>	12
Elenco diametri utilizzabili 2 <mm>	14
Elenco diametri utilizzabili 3 <mm>	16

Relazione di calcolo

Elenco diametri utilizzabili 4 <mm>	18
Elenco diametri utilizzabili 5 <mm>	20
Elenco diametri utilizzabili 6 <mm>	
Elenco diametri utilizzabili 7 <mm>	
Passi utilizzabili	
-Minimo <cm>	10.00
-Massimo <cm>	20.00
-Incremento <cm>	2.00
Tipo di ottimizzazione armatura a punzonamento	
-Minimizza il numero dei ferri	X
-Minimizza il peso complessivo dei ferri	
Dati per progettazione agli stati limite	
Gruppo di esigenza	
-Ambiente poco aggressivo	X
-Ambiente moderatamente aggressivo	
-Ambiente molto aggressivo	
Controllo rapporto X/D	NO
Barre da considerare tese per verifiche a taglio	
-Solo le barre con deformazione percentuale rispetto	
Incremento <%>	30.00
-Tutte le barre in trazione	

Verifiche e armature travi

Simbologia

Caso	=Caso di verifica
Xg	=Coordinata progressiva (dal primo nodo) in cui viene effettuato il progetto/verifica
CC	=Combinazione delle condizioni di carico elementari
	c = momento fittizio in campata
	a = momento fittizio agli appoggi
	T = momento traslato per taglio
	e = eccentricità aggiuntiva in caso di compressione o pressoflessione
	TG = taglio da gerarchia delle resistenze
	TGND = taglio non dissipativo limitante la gerarchia
	TG (Li) = taglio da gerarchia delle resistenze, limite inferiore
	TG (Ls) = taglio da gerarchia delle resistenze, limite superiore
TCC	=Tipo di combinazione di carico
	SLU = Stato limite ultimo
	SLU S = Stato limite ultimo (azione sismica)
	SLE R = Stato limite d'esercizio, combinazione rara
	SLE F = Stato limite d'esercizio, combinazione frequente
	SLE Q = Stato limite d'esercizio, combinazione quasi permanente
	SLD = Stato limite di danno
	SLV = Stato limite di salvaguardia della vita
	SLC = Stato limite di prevenzione del collasso
	SLO = Stato limite di operatività
	SLU I = Stato limite di resistenza al fuoco
	SND = Stato limite di salvaguardia della vita (non dissipativo)
El	=Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
Sez.	=Numero della sezione
X	=Coordinata progressiva rispetto al nodo iniziale
AfE S	=Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE I	=Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfEP S	=Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, superiore
AfEP I	=Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, inferiore
My	=Momento flettente intorno all'asse Y
MRdy	=Momento resistente allo stato limite ultimo intorno all'asse Y
Sic.	=Sicurezza a rottura
σ _f sup	=Tensione nel ferro - superiore
σ _f inf	=Tensione nel ferro - inferiore
σ _c	=Tensione nel calcestruzzo
X0	=Coordinata progressiva (dal nodo iniziale) dell'inizio del tratto
X1	=Coordinata progressiva (dal nodo iniziale) della fine del tratto
Lung.	=Lunghezza del tratto di progettazione
Staff.	=Staffatura adottata
AfE St.	=Area di ferro effettiva della staffatura (d'anima per travi a T o L)
bw	=Larghezza membratura resistente al taglio
Vsdu	=Taglio agente nella direzione del momento ultimo
ctgθ	=Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
VRsd	=Taglio ultimo lato armatura
VRcd	=Taglio ultimo lato calcestruzzo
Vrdu	=Taglio ultimo assorbibile dal solo calcestruzzo
Sic.T	=Sicurezza a rottura per taglio
c	=Ricoprimento dell'armatura
s	=Distanza massima tra le barre
K ₂	=Coefficiente per distribuzione deformazioni
Φ _{eq}	=Diametro equivalente delle barre
Δ _{sm}	=Distanza media tra le fessure
A _s	=Area complessiva dei ferri nell'area di calcestruzzo efficace
A _{c eff}	=Area di calcestruzzo efficace
σ _s	=Tensione nell'acciaio nella sezione fessurata
ε _{sm}	=Deformazione unitaria media dell'armatura (*1000)
W _k	=Ampiezza caratteristica delle fessure
Tipo	=Tipologia
	2C = Doppia C lato labbri
	2Cdx = Doppia C lato costola
	2I = Doppia I
	2L = Doppia L lato labbri
	2Ldx = Doppia L lato costole
	C = Sezione a C
	Cdx = C destra
	Cir. = Circolare
	Cir.c = Circolare cava
	I = Sezione a I
	L = Sezione a L

Relazione di calcolo

Ldx = L destra
Om. = Omega
Pg = Pi greco
Pr = Poligono regolare
Prc = Poligono regolare cavo
Pc = Per coordinate
Ia = Inerzie assegnate
R = Rettangolare
Rc = Rettangolare cava
T = Sezione a T
U = Sezione a U
Ur = U rovescia
V = Sezione a V
Vr = V rovescia
Z = Sezione a Z
Zdx = Z destra
Ts = T stondata
Ls = L stondata
Cs = C stondata
Is = I stondata
Dis. = Disegnata
B = Base
H = Altezza
Cf sup = Copriferro superiore
Cf inf = Copriferro inferiore
Cls = Tipo di calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Tp = Tipo di acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
Fyd = Resistenza di calcolo dell'acciaio

Travata n. 101

Nodi: 3 12 14 13 15 17 16 18 20 19

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
2	R	30.00	25.00	3.50	3.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	AfEP S <cm²>	AfEP I <cm²>	My <daNm>	MRdy <daNm>	Sic.
1.00	21	SLV	2	0.00	4.02	4.02	4.02	4.02	-179.29	-3121.06	17.408
1.30	33	SLU	2	30.00	4.02	4.02	4.02	4.02	169.49	3121.06	18.415
2.20	33	SLU	2	120.00	4.02	4.02	4.02	4.02	-335.10	-3121.06	9.314
3.90	33	SLU	5	0.00	4.02	4.02	4.02	4.02	-274.04	-3121.06	11.389
4.35	33	SLU	5	44.61	4.02	4.02	4.02	4.02	144.64	3121.06	21.578
5.10	33	SLU	5	120.00	4.02	4.02	4.02	4.02	-273.15	-3121.06	11.426
7.50	33	SLU	8	0.00	4.02	4.02	4.02	4.02	-303.12	-3121.06	10.296
7.90	33	SLU	8	40.00	4.02	4.02	4.02	4.02	159.81	3121.06	19.530
8.70	1	SLV	8	120.00	4.02	4.02	4.02	4.02	-228.59	-3121.06	13.654

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	My <daNm>	σ _f sup <daN/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
1.00	34	SLE R	2	0.00	4.02	4.02	-125.53	164.62	-36.70	5.06
1.00	36	SLE Q	2	0.00	4.02	4.02	-106.10	139.14	-31.02	4.27
1.30	34	SLE R	2	30.00	4.02	4.02	122.41	-35.79	160.53	4.93
1.30	36	SLE Q	2	30.00	4.02	4.02	105.17	-30.75	137.92	4.24
2.20	34	SLE R	2	120.00	4.02	4.02	-242.77	318.37	-70.98	9.78
2.20	36	SLE Q	2	120.00	4.02	4.02	-210.28	275.76	-61.48	8.47
3.90	34	SLE R	5	0.00	4.02	4.02	-197.85	259.45	-57.85	7.97
3.90	36	SLE Q	5	0.00	4.02	4.02	-169.78	222.64	-49.64	6.84
4.35	34	SLE R	5	44.61	4.02	4.02	104.46	-30.54	136.99	4.21
4.35	36	SLE Q	5	44.61	4.02	4.02	89.72	-26.23	117.66	3.61
5.10	34	SLE R	5	120.00	4.02	4.02	-197.22	258.64	-57.67	7.94
5.10	36	SLE Q	5	120.00	4.02	4.02	-169.29	222.01	-49.50	6.82
7.50	34	SLE R	8	0.00	4.02	4.02	-219.12	287.35	-64.07	8.83
7.50	36	SLE Q	8	0.00	4.02	4.02	-188.67	247.42	-55.16	7.60
7.90	34	SLE R	8	40.00	4.02	4.02	115.34	-33.72	151.25	4.65
7.90	36	SLE Q	8	40.00	4.02	4.02	98.89	-28.91	129.68	3.98
8.70	34	SLE R	8	120.00	4.02	4.02	-157.78	206.92	-46.13	6.36
8.70	36	SLE Q	8	120.00	4.02	4.02	-135.16	177.24	-39.52	5.44

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm²>	A _{c eff} <cm²>	σ _s <daN/cm²>	ε _{sm}	w _k <mm>
34	1.00	36	SLE Q	2	2	0.00	-106.10	43.00	230.00	0.50	16.00	158.49	4.02	182.18	139.14	0.04	0.01
36	1.00	35	SLE F	2	2	0.00	-108.05	43.00	230.00	0.50	16.00	158.49	4.02	182.18	141.69	0.04	0.01
71	1.30	36	SLE Q	2	2	30.00	105.17	43.00	230.00	0.50	16.00	158.49	4.02	182.18	137.92	0.04	0.01
73	1.30	35	SLE F	2	2	30.00	106.89	43.00	230.00	0.50	16.00	158.49	4.02	182.18	140.18	0.04	0.01
97	2.20	36	SLE Q	2	2	120.00	-210.28	43.00	230.00	0.50	16.00	158.49	4.02	182.18	275.76	0.08	0.02
98	2.20	35	SLE F	2	2	120.00	-213.53	43.00	230.00	0.50	16.00	158.49	4.02	182.18	280.03	0.08	0.02
125	3.90	36	SLE Q	5	2	0.00	-169.78	43.00	230.00	0.50	16.00	158.49	4.02	182.18	222.64	0.06	0.02

Relazione di calcolo

126	3.90	35	SLE F	5	2	0.00	-172.58	43.00	230.00	0.50	16.00	158.49	4.02	182.18	226.32	0.07	0.02
159	4.35	36	SLE Q	5	2	44.61	89.72	43.00	230.00	0.50	16.00	158.49	4.02	182.18	117.66	0.03	0.01
161	4.35	35	SLE F	5	2	44.61	91.20	43.00	230.00	0.50	16.00	158.49	4.02	182.18	119.59	0.03	0.01
189	5.10	36	SLE Q	5	2	120.00	-169.29	43.00	230.00	0.50	16.00	158.49	4.02	182.18	222.01	0.06	0.02
190	5.10	35	SLE F	5	2	120.00	-172.09	43.00	230.00	0.50	16.00	158.49	4.02	182.18	225.67	0.07	0.02
215	7.50	36	SLE Q	8	2	0.00	-188.67	43.00	230.00	0.50	16.00	158.49	4.02	182.18	247.42	0.07	0.02
216	7.50	35	SLE F	8	2	0.00	-191.71	43.00	230.00	0.50	16.00	158.49	4.02	182.18	251.41	0.07	0.02
252	7.90	36	SLE Q	8	2	40.00	98.89	43.00	230.00	0.50	16.00	158.49	4.02	182.18	129.68	0.04	0.01
254	7.90	35	SLE F	8	2	40.00	100.53	43.00	230.00	0.50	16.00	158.49	4.02	182.18	131.84	0.04	0.01
285	8.70	36	SLE Q	8	2	120.00	-135.16	43.00	230.00	0.50	16.00	158.49	4.02	182.18	177.24	0.05	0.01
287	8.70	35	SLE F	8	2	120.00	-137.42	43.00	230.00	0.50	16.00	158.49	4.02	182.18	180.21	0.05	0.01

Staffe - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.T
33 SLU	1.00	1.25	0.25	ø8/ 4 2 br.	25.13	0.30	1216.76	1.23	23390.40	23390.40	23390.40	19.22
33 SLU	1.25	1.95	0.70	ø8/16 2 br.	6.28	0.30	921.21	2.50	11893.70	16475.90	11893.70	12.91
33 SLU	1.95	2.20	0.25	ø8/ 4 2 br.	25.13	0.30	1483.84	1.23	23390.40	23390.40	23390.40	15.76
33 SLU	3.90	4.15	0.25	ø8/ 4 2 br.	25.13	0.30	1351.04	1.23	23390.40	23390.40	23390.40	17.31
33 SLU	4.15	4.85	0.70	ø8/16 2 br.	6.28	0.30	788.41	2.50	11893.70	16475.90	11893.70	15.09
33 SLU	4.85	5.10	0.25	ø8/ 4 2 br.	25.13	0.30	1349.56	1.23	23390.40	23390.40	23390.40	17.33
33 SLU	7.50	7.75	0.25	ø8/ 4 2 br.	25.13	0.30	1420.65	1.23	23390.40	23390.40	23390.40	16.46
33 SLU	7.75	8.45	0.70	ø8/16 2 br.	6.28	0.30	858.02	2.50	11893.70	16475.90	11893.70	13.86
33 SLU	8.45	8.70	0.25	ø8/ 4 2 br.	25.13	0.30	1279.95	1.23	23390.40	23390.40	23390.40	18.27

Travata n. 102

Nodi: 2 4 6 -98 5 8 7 9 11 10

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
2R		30.00	25.00	3.50	3.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.00	7	SLV	2	0.00	4.02	4.02	4.02	4.02	-181.57	-3121.06	17.189
1.30	33	SLU	2	30.00	4.02	4.02	4.02	4.02	169.27	3121.06	18.439
2.20	33	SLU	2	120.00	4.02	4.02	4.02	4.02	-333.04	-3121.06	9.371
3.90	33	SLU	5	0.00	4.02	4.02	4.02	4.02	-274.46	-3121.06	11.371
4.35	33	SLU	5	44.56	4.02	4.02	4.02	4.02	144.64	3121.06	21.578
5.10	33	SLU	5	120.00	4.02	4.02	4.02	4.02	-272.73	-3121.06	11.444
7.50	33	SLU	8	0.00	4.02	4.02	4.02	4.02	-301.76	-3121.06	10.343
7.90	33	SLU	8	40.00	4.02	4.02	4.02	4.02	159.73	3121.06	19.539
8.70	19	SLV	8	120.00	4.02	4.02	4.02	4.02	-231.54	-3121.06	13.480

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.00	34	SLE R	2	0.00	4.02	4.02	-127.06	166.63	-37.15	5.12
1.00	36	SLE Q	2	0.00	4.02	4.02	-107.53	141.01	-31.44	4.33
1.30	34	SLE R	2	30.00	4.02	4.02	122.25	-35.74	160.31	4.92
1.30	36	SLE Q	2	30.00	4.02	4.02	105.01	-30.70	137.71	4.23
2.20	34	SLE R	2	120.00	4.02	4.02	-241.24	316.36	-70.54	9.72
2.20	36	SLE Q	2	120.00	4.02	4.02	-208.86	273.89	-61.07	8.41
3.90	34	SLE R	5	0.00	4.02	4.02	-198.16	259.87	-57.94	7.98
3.90	36	SLE Q	5	0.00	4.02	4.02	-170.08	223.04	-49.73	6.85
4.35	34	SLE R	5	44.56	4.02	4.02	104.46	-30.54	136.99	4.21
4.35	36	SLE Q	5	44.56	4.02	4.02	89.72	-26.23	117.66	3.61
5.10	34	SLE R	5	120.00	4.02	4.02	-196.91	258.22	-57.57	7.93
5.10	36	SLE Q	5	120.00	4.02	4.02	-168.99	221.61	-49.41	6.81
7.50	34	SLE R	8	0.00	4.02	4.02	-218.10	286.01	-63.77	8.79
7.50	36	SLE Q	8	0.00	4.02	4.02	-187.71	246.16	-54.88	7.56
7.90	34	SLE R	8	40.00	4.02	4.02	115.28	-33.71	151.18	4.64
7.90	36	SLE Q	8	40.00	4.02	4.02	98.84	-28.90	129.61	3.98
8.70	34	SLE R	8	120.00	4.02	4.02	-158.80	208.25	-46.43	6.40
8.70	36	SLE Q	8	120.00	4.02	4.02	-136.11	178.50	-39.80	5.48

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
34	1.00	36	SLE Q	2	2	0.00	-107.53	43.00	230.00	0.50	16.00	158.49	4.02	182.18	141.01	0.04	0.01
36	1.00	35	SLE F	2	2	0.00	-109.48	43.00	230.00	0.50	16.00	158.49	4.02	182.18	143.58	0.04	0.01
72	1.30	36	SLE Q	2	2	30.00	105.01	43.00	230.00	0.50	16.00	158.49	4.02	182.18	137.71	0.04	0.01
74	1.30	35	SLE F	2	2	30.00	106.73	43.00	230.00	0.50	16.00	158.49	4.02	182.18	139.97	0.04	0.01
98	2.20	36	SLE Q	2	2	120.00	-208.86	43.00	230.00	0.50	16.00	158.49	4.02	182.18	273.89	0.08	0.02
99	2.20	35	SLE F	2	2	120.00	-212.09	43.00	230.00	0.50	16.00	158.49	4.02	182.18	278.14	0.08	0.02
126	3.90	36	SLE Q	5	2	0.00	-170.08	43.00	230.00	0.50	16.00	158.49	4.02	182.18	223.04	0.06	0.02

Relazione di calcolo

127	3.90	35	SLE F	5	2	0.00	-172.89	43.00	230.00	0.50	16.00	158.49	4.02	182.18	226.72	0.07	0.02
160	4.35	36	SLE Q	5	2	44.56	89.72	43.00	230.00	0.50	16.00	158.49	4.02	182.18	117.66	0.03	0.01
162	4.35	35	SLE F	5	2	44.56	91.20	43.00	230.00	0.50	16.00	158.49	4.02	182.18	119.59	0.03	0.01
190	5.10	36	SLE Q	5	2	120.00	-168.99	43.00	230.00	0.50	16.00	158.49	4.02	182.18	221.61	0.06	0.02
191	5.10	35	SLE F	5	2	120.00	-171.78	43.00	230.00	0.50	16.00	158.49	4.02	182.18	225.27	0.07	0.02
217	7.50	36	SLE Q	8	2	0.00	-187.71	43.00	230.00	0.50	16.00	158.49	4.02	182.18	246.16	0.07	0.02
218	7.50	35	SLE F	8	2	0.00	-190.75	43.00	230.00	0.50	16.00	158.49	4.02	182.18	250.15	0.07	0.02
252	7.90	36	SLE Q	8	2	40.00	98.84	43.00	230.00	0.50	16.00	158.49	4.02	182.18	129.61	0.04	0.01
254	7.90	35	SLE F	8	2	40.00	100.48	43.00	230.00	0.50	16.00	158.49	4.02	182.18	131.77	0.04	0.01
285	8.70	36	SLE Q	8	2	120.00	-136.11	43.00	230.00	0.50	16.00	158.49	4.02	182.18	178.50	0.05	0.01
287	8.70	35	SLE F	8	2	120.00	-138.38	43.00	230.00	0.50	16.00	158.49	4.02	182.18	181.47	0.05	0.01

Staffe - Verifiche armatura

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.T
33 SLU	1.00	1.25	0.25	ø8/ 4 2 br.	25.13	0.30	1220.18	1.23	23390.40	23390.40	23390.40	19.17
33 SLU	1.25	1.95	0.70	ø8/16 2 br.	6.28	0.30	917.79	2.50	11893.70	16475.90	11893.70	12.96
33 SLU	1.95	2.20	0.25	ø8/ 4 2 br.	25.13	0.30	1480.42	1.23	23390.40	23390.40	23390.40	15.80
33 SLU	3.90	4.15	0.25	ø8/ 4 2 br.	25.13	0.30	1351.75	1.23	23390.40	23390.40	23390.40	17.30
33 SLU	4.15	4.85	0.70	ø8/16 2 br.	6.28	0.30	789.12	2.50	11893.70	16475.90	11893.70	15.07
33 SLU	4.85	5.10	0.25	ø8/ 4 2 br.	25.13	0.30	1348.86	1.23	23390.40	23390.40	23390.40	17.34
33 SLU	7.50	7.75	0.25	ø8/ 4 2 br.	25.13	0.30	1418.38	1.23	23390.40	23390.40	23390.40	16.49
33 SLU	7.75	8.45	0.70	ø8/16 2 br.	6.28	0.30	855.75	2.50	11893.70	16475.90	11893.70	13.90
33 SLU	8.45	8.70	0.25	ø8/ 4 2 br.	25.13	0.30	1282.22	1.23	23390.40	23390.40	23390.40	18.24

Travata n. 103

Nodi: 3 -106 -105 -104 -103 2

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
2R		30.00	25.00	3.50	3.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

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

Stato limite d'esercizio - Verifiche tensionali

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

Staffe - Verifiche armatura

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

Travata n. 104

Nodi: 13 -107 -108 -109 -110 -98

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
2R		30.00	25.00	3.50	3.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

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

Stato limite d'esercizio - Verifiche tensionali

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

Staffe - Verifiche armatura

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

Travata n. 105

Nodi: 16 -111 -112 -113 -114 7

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
2R		30.00	25.00	3.50	3.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

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

Stato limite d'esercizio - Verifiche tensionali

Relazione di calcolo

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

Staffe - Verifiche armatura

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

Travata n. 106

Nodi: 19 -99 -100 -101 -102 10

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
2R		30.00	25.00	3.50	3.50	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

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

Stato limite d'esercizio - Verifiche tensionali

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

Staffe - Verifiche armatura

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

Verifiche e armature solette/platee

Simbologia

Nodo = Numero del nodo
X = Coordinata X del nodo
Y = Coordinata Y del nodo
DV = Direzione di verifica
XX = Verifica per momento Mxx
YY = Verifica per momento Myy
CC = Numero della combinazione delle condizioni di carico elementari
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLU S = Stato limite ultimo (azione sismica)
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SLC = Stato limite di prevenzione del collasso
SLO = Stato limite di operatività
SLU I = Stato limite di resistenza al fuoco
SND = Stato limite di salvaguardia della vita (non dissipativo)
C = Ricoprimento dell'armatura
S = Distanza massima tra le barre
K₂ = Coefficiente per distribuzione deformazioni
Φ_{eq} = Diametro equivalente delle barre
Δ_{sm} = Distanza media tra le fessure
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
A_{c eff} = Area di calcestruzzo efficace
σ_s = Tensione nell'acciaio nella sezione fessurata
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
w_k = Ampiezza caratteristica delle fessure
A_{fE S} = Area di ferro effettiva totale presente nel punto di verifica, superiore
A_{fE I} = Area di ferro effettiva totale presente nel punto di verifica, inferiore
M_y = Momento flettente intorno all'asse Y
M'_{ydy} = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
M_{Rdy} = Momento resistente allo stato limite ultimo intorno all'asse Y
Sic. = Sicurezza a rottura
A_{fE St.} = Area di ferro effettiva della staffatura
V_{sdu} = Taglio agente nella direzione del momento ultimo
V_{Rcd} = Taglio ultimo lato calcestruzzo
V_{Rsd} = Taglio ultimo lato armatura
V_{rdu} = Taglio ultimo assorbibile dal solo calcestruzzo
Sic.T = Sicurezza a rottura per taglio
M_{om} = Momento flettente
σ_c = Tensione nel calcestruzzo
σ_f = Tensione nel ferro
Spess. = Spessore
Cf sup = Copriferro superiore
Cf inf = Copriferro inferiore
Cls = Tipo di calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo

Relazione di calcolo

Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Tp = Tipo di acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
Fyd = Resistenza di calcolo dell'acciaio

Armatura platea a quota 0.00

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>		<daN/cm²>	<daN/cm²>
35.00	3.00	3.00	C28/35	290.50	19.84	164.62	13.23	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	Afe S	Afe I	My	MRdy	Sic.
	<m>	<m>				<cm²>	<cm²>	<daNm>	<daNm>	
-46	8.70	2.44	XX	33	SLU	3.77	3.77	-177.86	-4864.09	27.347
-41	3.10	2.44	XX	33	SLU	3.77	3.77	312.22	4864.09	15.579
-46	8.70	2.44	YY	33	SLU	3.77	3.77	-146.34	-4864.09	33.239
-91	5.10	5.30	YY	33	SLU	3.77	3.77	327.44	4864.09	14.855

Stato limite elastico - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	Afe S	Afe I	My	M'ydy	Sic.
	<m>	<m>				<cm²>	<cm²>	<daNm>	<daNm>	
-46	8.70	2.44	XX	19	SLV(E)	3.77	3.77	-155.14	-4455.14	28.717
-41	3.10	2.44	XX	21	SLV(E)	3.77	3.77	250.33	4455.14	17.797
-46	8.70	2.44	YY	29	SLV(E)	3.77	3.77	-118.88	-4455.14	37.477
-91	5.10	5.30	YY	11	SLV(E)	3.77	3.77	293.93	4455.14	15.157

Stato limite ultimo - Verifica a taglio del calcestruzzo

Nodo	X	Y	DV	CC	TCC	Afe S	Afe I	Afe St.	Vsdu	VRcd	VRsd	Vrdu	Sic. T
	<m>	<m>				<cm²>	<cm²>	<cm²/m>	<daN>	<daN>	<daN>	<daN>	
-42	3.90	2.44	XX	33	SLU	3.77	3.77		1033.77			14463.60	13.99
-91	5.10	5.30	YY	33	SLU	3.77	3.77		944.49			14463.60	15.31

Stato limite d'esercizio - Verifiche tensionali

Nodo	X	Y	DV	CC	TCC	Afe S	Afe I	Mom	σc	σf
	<m>	<m>				<cm²>	<cm²>	<daNm>	<daN/cm²>	<daN/cm²>
-46	8.70	2.44	XX	34	SLE R	3.77	3.77	-134.41	1.55	118.29
-46	8.70	2.44	XX	36	SLE Q	3.77	3.77	-129.19	1.49	113.70
-41	3.10	2.44	XX	34	SLE R	3.77	3.77	235.64	2.72	207.38
-41	3.10	2.44	XX	36	SLE Q	3.77	3.77	225.81	2.61	198.73
-46	8.70	2.44	YY	34	SLE R	3.77	3.77	-110.47	1.28	97.22
-46	8.70	2.44	YY	36	SLE Q	3.77	3.77	-105.93	1.22	93.22
-91	5.10	5.30	YY	34	SLE R	3.77	3.77	246.89	2.85	217.28
-91	5.10	5.30	YY	36	SLE Q	3.77	3.77	236.08	2.73	207.77

Stato limite d'esercizio - Verifiche a fessurazione

Nodo	X	Y	DV	CC	TCC	c	s	K2	Φeq	Δsm	As	Ac eff	σs	εsm	Wk
	<m>	<m>				<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>
-46	8.70	2.44	XX	36	SLE Q	24.00	300.00	0.50	12.00	246.80	4.90	811.93	113.70	0.03	0.01
-46	8.70	2.44	XX	35	SLE F	24.00	300.00	0.50	12.00	246.80	4.90	811.93	114.16	0.03	0.01
-41	3.10	2.44	XX	36	SLE Q	24.00	300.00	0.50	12.00	246.80	4.90	811.93	198.73	0.06	0.02
-41	3.10	2.44	XX	35	SLE F	24.00	300.00	0.50	12.00	246.80	4.90	811.93	199.59	0.06	0.02
-46	8.70	2.44	YY	36	SLE Q	24.00	300.00	0.50	12.00	246.80	4.90	811.93	93.22	0.03	0.01
-46	8.70	2.44	YY	35	SLE F	24.00	300.00	0.50	12.00	246.80	4.90	811.93	93.62	0.03	0.01
-91	5.10	5.30	YY	36	SLE Q	24.00	300.00	0.50	12.00	246.80	4.90	811.93	207.77	0.06	0.03
-91	5.10	5.30	YY	35	SLE F	24.00	300.00	0.50	12.00	246.80	4.90	811.93	208.72	0.06	0.03

Verifiche muratura

Tabelle riassuntive verifiche

Verifiche maschi e pareti

Simbologia

Num. = Numero elemento (maschio/architrave/parete in muratura armata)
Zv = Coordinata Z di verifica
TP = Tasso di sfruttamento per pressoflessione nel piano
TPO = Tasso di sfruttamento per pressoflessione ortogonale al piano
TT = Tasso di sfruttamento per taglio nel piano
TG = Tasso di sfruttamento globale

Num.	Zv	TP	TPO	TT	TG
<m>	<m>				

Relazione di calcolo

1	0.00	---	0.12	---	0.12
1	1.77	---	0.14	---	0.14
2	0.00	---	0.10	---	0.10
2	1.77	---	0.11	---	0.11
3	0.00	---	0.10	---	0.10
3	1.77	---	0.11	---	0.11
4	0.00	---	0.12	---	0.12
4	1.77	---	0.13	---	0.13
5	0.00	---	0.12	---	0.12
5	1.77	---	0.14	---	0.14
6	0.00	---	0.10	---	0.10
6	1.77	---	0.11	---	0.11
7	0.00	---	0.10	---	0.10
7	1.77	---	0.11	---	0.11
8	0.00	---	0.12	---	0.12
8	1.77	---	0.13	---	0.13
9	0.00	---	0.07	---	0.07
9	1.77	---	0.04	---	0.04
10	0.00	---	0.09	---	0.09
10	1.77	---	0.06	---	0.06
11	0.00	---	0.09	---	0.09
11	1.77	---	0.06	---	0.06
12	0.00	---	0.07	---	0.07
12	1.77	---	0.04	---	0.04
101	0.00	0.28	---	0.09	0.28
101	1.77	0.08	0.21	0.11	0.21
102	0.00	0.25	---	0.10	0.25
102	1.77	0.15	0.15	0.12	0.15
103	0.00	0.31	---	0.16	0.31
103	1.77	0.19	0.14	0.18	0.19
104	0.00	0.37	---	0.19	0.37
104	1.77	0.12	0.13	0.21	0.21
105	0.00	0.28	---	0.10	0.28
105	1.77	0.08	0.21	0.11	0.21
106	0.00	0.25	---	0.10	0.25
106	1.77	0.15	0.15	0.12	0.15
107	0.00	0.31	---	0.16	0.31
107	1.77	0.19	0.14	0.19	0.19
108	0.00	0.37	---	0.19	0.37
108	1.77	0.12	0.13	0.21	0.21
109	0.00	0.11	---	0.08	0.11
109	1.77	0.06	0.24	0.09	0.24
110	0.00	0.08	---	0.07	0.08
110	1.77	0.03	0.14	0.08	0.14
111	0.00	0.08	---	0.07	0.08
111	1.77	0.03	0.15	0.08	0.15
112	0.00	0.12	---	0.09	0.12
112	1.77	0.06	0.27	0.10	0.27

Verifiche cinematicismi

Num.	Comm.	An.	TCC	$\zeta_E (A_g)$
1	Ribalt. a z=0.00	NL	SLV	1.9223
2	Ribalt. a z=0.00	NL	SLV	1.9223
3	Ribalt. a z=0.00	NL	SLV	1.9223
4	Ribalt. a z=0.00	NL	SLV	1.9223
5	Ribalt. a z=0.00	NL	SLV	1.9223
6	Ribalt. a z=0.00	NL	SLV	1.9223
7	Ribalt. a z=0.00	NL	SLV	1.9223
8	Ribalt. a z=0.00	NL	SLV	1.9223
9	Ribalt. a z=0.00	NL	SLV	1.6665
12	Ribalt. a z=0.00	NL	SLV	1.6665

Verifiche maschi e pareti

Simbologia

Xg = Coord. X del baricentro al piede
 Yg = Coord. Y del baricentro al piede
 L = Lunghezza
 CC = Numero della combinazione delle condizioni di carico elementari
 TCC = Tipo di combinazione di carico
 SLU = Stato limite ultimo
 SLU S = Stato limite ultimo (azione sismica)
 SLE R = Stato limite d'esercizio, combinazione rara
 SLE F = Stato limite d'esercizio, combinazione frequente
 SLE Q = Stato limite d'esercizio, combinazione quasi permanente
 SLD = Stato limite di danno
 SLV = Stato limite di salvaguardia della vita
 SLC = Stato limite di prevenzione del collasso
 SLO = Stato limite di operatività
 SLU I = Stato limite di resistenza al fuoco
 SND = Stato limite di salvaguardia della vita (non dissipativo)

Relazione di calcolo

N1 = Carico trasmesso dal pannello sovrastante
e_{s1} = Eccentricità convenzionale della muratura sovrastante
ΣN2_{sx} = Reazione totale dei solai a sinistra
ΣN2_{dx} = Reazione totale dei solai a destra
e_{s2} = Eccentricità convenzionale della reazione d'appoggio dei solai
e₁ = Eccentricità per sezioni di estremità
Zv = Coordinata Z di verifica
N = Sforzo normale
M_v = Momento flettente dovuto al vento o al sisma
e_v = Eccentricità dovuta alle azioni orizzontali ortogonali al piano
e₂ = Eccentricità per sezione di massimo M_v
e = Eccentricità di calcolo
m = Coefficiente di eccentricità
Φ_t = Coefficiente di riduzione della resistenza per eccentricità trasversale
Nu = Sforzo normale ultimo
Mu = Momento ultimo
V_{Ed} = Taglio agente
Vu = Taglio ultimo
Num. = Numero elemento (maschio/architrave/parete in muratura armata)
Comm. = Commento
An. = Tipo di analisi
L = Lineare
NL = Non lineare
ζ_E (A_g) = Indice di sicurezza in termini di accelerazione
Zi = Coordinata Z iniziale
Zf = Coordinata Z finale
Spess. = Spessore
h = Altezza
d₁ = Eccentricità della muratura sovrastante
S_{sx} = Numero del solaio a sinistra
d₂ = Eccentricità di appoggio del solaio
S_{dx} = Numero del solaio a destra
e_a = Eccentricità per tolleranze di esecuzione
a = Interasse irrigidimenti
ρ = Fattore laterale di vincolo
λ = Snellezza convenzionale
f_k = Resistenza caratteristica della muratura
f_d SLU = Resistenza di calcolo a compressione della muratura per verifiche per azioni statiche
f_d SLV = Resistenza di calcolo a compressione della muratura per verifiche per azioni sismiche
τ_θ = Resistenza media a taglio della muratura a tessitura irregolare in assenza di tensioni normali
τ_{θd} SLU = Resistenza di calcolo a taglio della muratura a tessitura irregolare in assenza di tensioni normali per azioni statiche
τ_{θd} SLV = Resistenza di calcolo a taglio della muratura a tessitura irregolare in assenza di tensioni normali per azioni sismiche
δ = Spostamento relativo
δ/h = Rapporto (moltiplicato per 1000) tra lo spostamento relativo e l'altezza
Sic. = Sicurezza

Maschio in muratura ordinaria n. 1

Xg=0.50 <m> Yg=0.15 <m> L=1.00 <m>

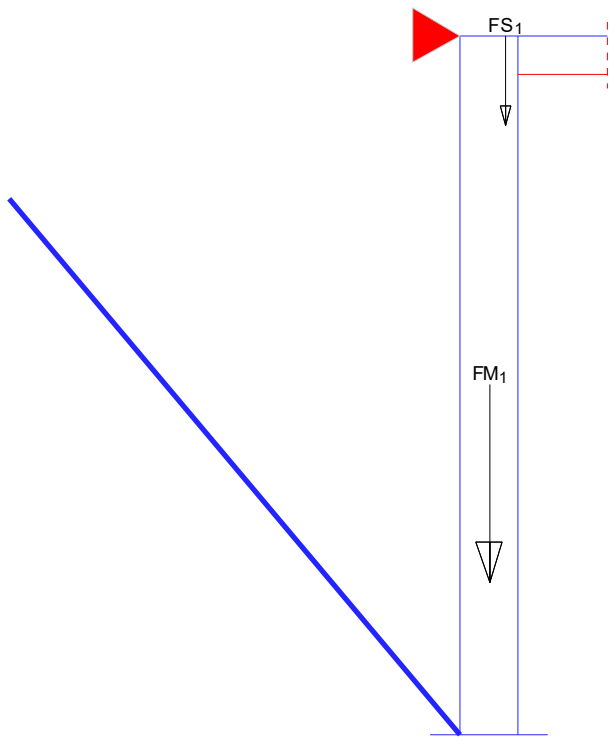
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <cm>	d ₁ <cm>	S _{sx}	d ₂ <cm>	S _{dx}	d ₂ <cm>	e _a <cm>	a <m>	ρ	λ	f _k <daN/cm²>	f _d SLU <daN/cm²>	f _d SLV <daN/cm²>	τ _θ <daN/cm²>	τ _{θd} SLU <daN/cm²>	τ _{θd} SLV <daN/cm²>
0.00	3.55	30.00	3.35				0	8.40	1.68	0.00	1.00	11.17	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN2 _{sx} <daN>	ΣN2 _{dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
33	SLU	0.00	0.00	0.00	2006.75	8.40	10.07	0.00	-6451.69	0.00	---	---	1.68	0.34	0.66	-53550.80	---
								1.77	-4721.07	0.00	---	---	5.04	1.01	0.42	-33887.10	---

Verifiche cinematicismi
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM ₁		2662.50	0.00	1.77	Peso maschio piano 1
FS ₁		1207.50	0.08	3.55	Peso solaio piano 1

Massa partecipante al cinematicismo $M^*=3507.55$ <kg>
 Frazione di massa partecipante $e^*=0.89$
 Analisi cinematica non lineare
 Capacità di spostamento ultimo $d_u^*=79.27$ <mm>
 Domanda di spostamento [C8A.4.11]=41.24 <mm>
 Indice di sicurezza in termini di accelerazione $\zeta_E (A_g)=1.9223$

Maschio in muratura ordinaria n. 2

$X_g=3.05$ <m> $Y_g=0.15$ <m> $L=1.70$ <m>

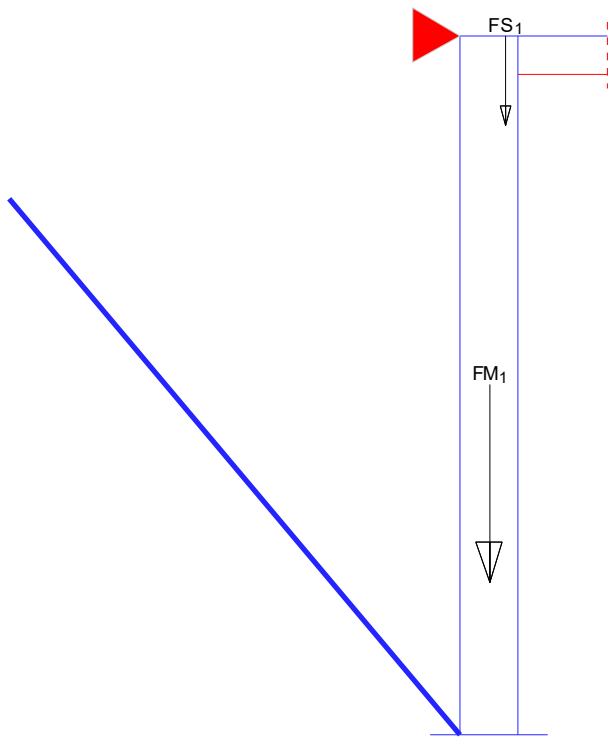
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d ₁	S _{sx}	d ₂	S _{dx}	d ₂	e _a	a	p	λ	f _k	f _d SLU	f _d SLV	τ ₀	τ _{0d} SLU	τ _{0d} SLV
0.00	3.55	30.00	3.35					0.8.40	1.68	0.00	1.00	11.17	65.00	27.08	27.08	1.25	0.52	0.52
								0.8.40										

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN2 _{sx}	ΣN2 _{dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	0.00	3411.48	8.40	10.07	0.00	-8999.72	0.00	---	---	1.68	0.34	0.66	-91036.30	---
								1.77	-6057.66	0.00	---	---	5.04	1.01	0.42	-57608.00	---

Verifiche cinematicismi
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM ₁		4526.25	0.00	1.77	Peso maschio piano 1
FS ₁		2052.75	0.08	3.55	Peso solaio piano 1

Massa partecipante al cinematicismo $M^*=5962.84$ <kg>
 Frazione di massa partecipante $e^*=0.89$
 Analisi cinematica non lineare
 Capacità di spostamento ultimo $d_u^*=79.27$ <mm>
 Domanda di spostamento [C8A.4.11]=41.24 <mm>
 Indice di sicurezza in termini di accelerazione ζ_E (A_g)=1.9223

Maschio in muratura ordinaria n. 3

$X_g=6.30$ <m> $Y_g=0.15$ <m> $L=2.40$ <m>

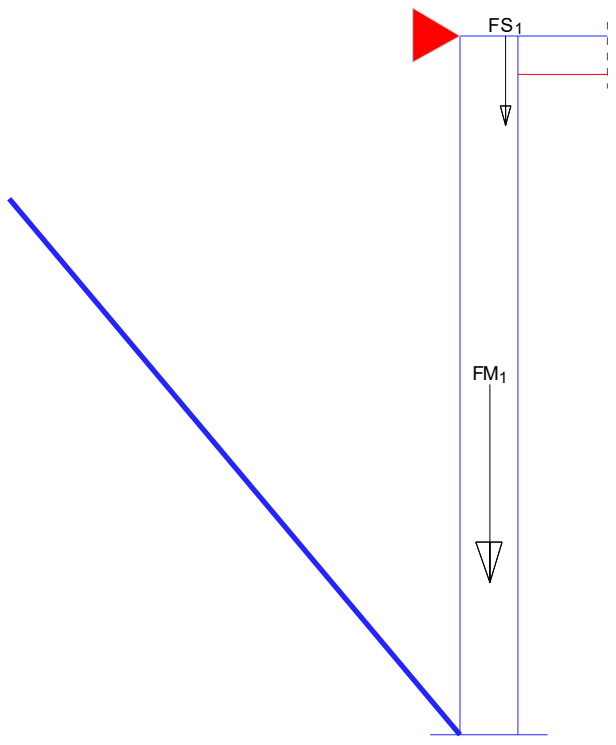
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d ₁	S _{sx}	d ₂	S _{dx}	d ₂	e _a	a	p	λ	f _k	f _d SLU	f _d SLV	τ ₀	τ _{0d} SLU	τ _{0d} SLV
0.00	3.55	30.00	3.35					0.8.40	1.68	0.00	1.00	11.17	65.00	27.08	27.08	1.25	0.52	0.52
								0.8.40										

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN2 _{sx}	ΣN2 _{dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	0.00	4816.20	8.40	10.07	0.00	-13065.50	0.00	---	---	1.68	0.34	0.66	-128522.00	---
								1.77	-8911.98	0.00	---	---	5.04	1.01	0.42	-81329.00	---

Verifiche cinematicismi
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM ₁		6390.00	0.00	1.77	Peso maschio piano 1
FS ₁		2898.00	0.08	3.55	Peso solaio piano 1

Massa partecipante al cinematicismo $M^*=8418.12$ <kg>
 Frazione di massa partecipante $e^*=0.89$
 Analisi cinematica non lineare
 Capacità di spostamento ultimo $d_u^*=79.27$ <mm>
 Domanda di spostamento [C8A.4.11]=41.24 <mm>
 Indice di sicurezza in termini di accelerazione ζ_E (A_g)=1.9223

Maschio in muratura ordinaria n. 4

$X_g=9.50$ <m> $Y_g=0.15$ <m> $L=1.60$ <m>

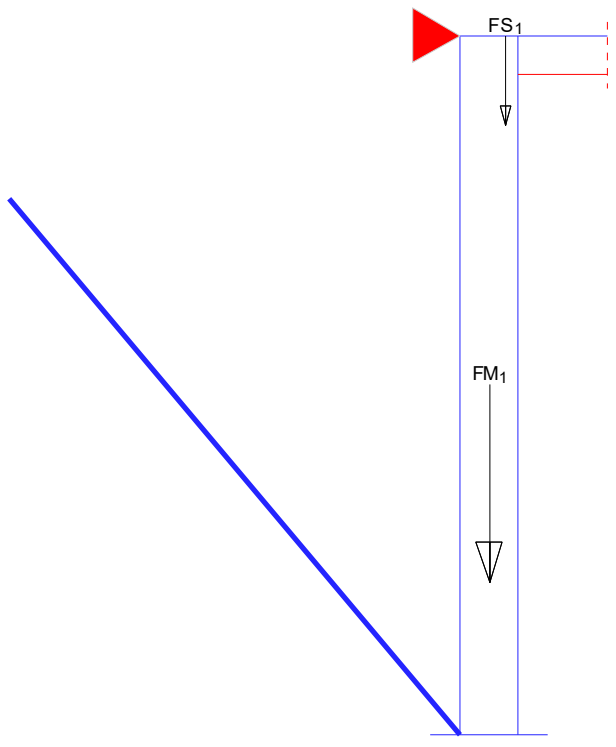
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d ₁	S _{sx}	d ₂	S _{dx}	d ₂	e _a	a	p	λ	f _k	f _d SLU	f _d SLV	τ ₀	τ _{0d} SLU	τ _{0d} SLV
0.00	3.55	30.00	3.35					0.8.40	1.68	0.00	1.00	11.17	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN _{2sx}	ΣN _{2dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	0.00	3210.80	8.40	10.07	0.00	-9858.67	0.00	---	---	1.68	0.34	0.66	-85681.30	---
								1.77	-7089.67	0.00	---	---	5.04	1.01	0.42	-54219.30	---

Verifiche cinematicismi
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM ₁		4260.00	0.00	1.77	Peso maschio piano 1
FS ₁		1932.00	0.08	3.55	Peso solaio piano 1

Massa partecipante al cinematicismo $M^*=5612.08$ <kg>
 Frazione di massa partecipante $e^*=0.89$
 Analisi cinematica non lineare
 Capacità di spostamento ultimo $d_u^*=79.27$ <mm>
 Domanda di spostamento [C8A.4.11]=41.24 <mm>
 Indice di sicurezza in termini di accelerazione ζ_E (A_g)=1.9223

Maschio in muratura ordinaria n. 5

$X_g=0.50$ <m> $Y_g=4.45$ <m> $L=1.00$ <m>

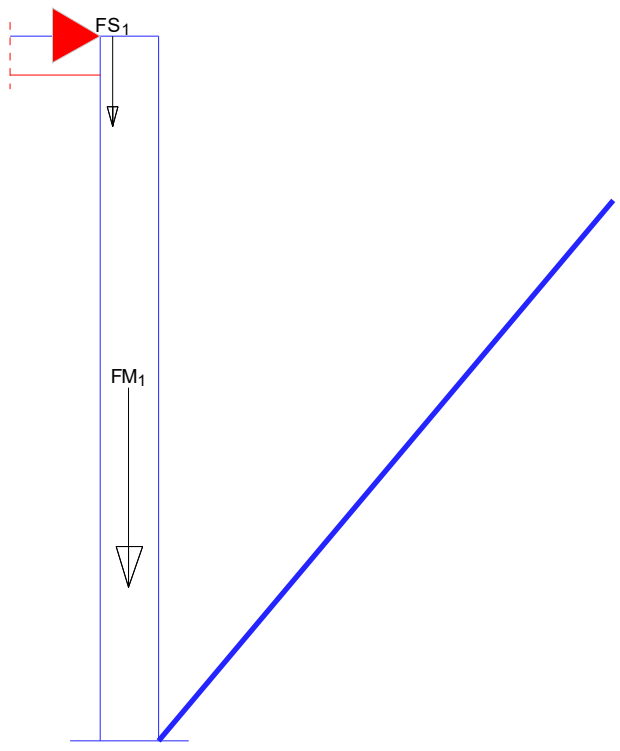
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d ₁	S _{sx}	d ₂	S _{dx}	d ₂	e _a	a	p	λ	f _k	f _d SLU	f _d SLV	τ ₀	τ _{0d} SLU	τ _{0d} SLV
<m>	<m>	<cm>	<cm>	<cm>		<cm>		<cm>	<cm>	<m>			<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	3.55	30.00	3.35		0	-8.40			1.68	0.00	1.00	11.17	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN _{2sx}	ΣN _{2dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	2006.75	0.00	-8.40	10.07	0.00	-6461.16	0.00	---	---	1.68	0.34	0.66	-53550.80	---
								1.77	-4730.53	0.00	---	---	5.04	1.01	0.42	-33887.10	---

Verifiche cinematicismi
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM ₁		2662.50	0.00	1.77	Peso maschio piano 1
FS ₁		1207.50	0.08	3.55	Peso solaio piano 1

Massa partecipante al cinematicismo M'=3507.55 <kg>
 Frazione di massa partecipante e'=0.89
 Analisi cinematica non lineare
 Capacità di spostamento ultimo d_u'=79.27 <mm>
 Domanda di spostamento [C8A.4.11]=41.24 <mm>
 Indice di sicurezza in termini di accelerazione ζ_E (A_g)=1.9223

Maschio in muratura ordinaria n. 6

Xg=3.05 <m> Yg=4.45 <m> L=1.70 <m>

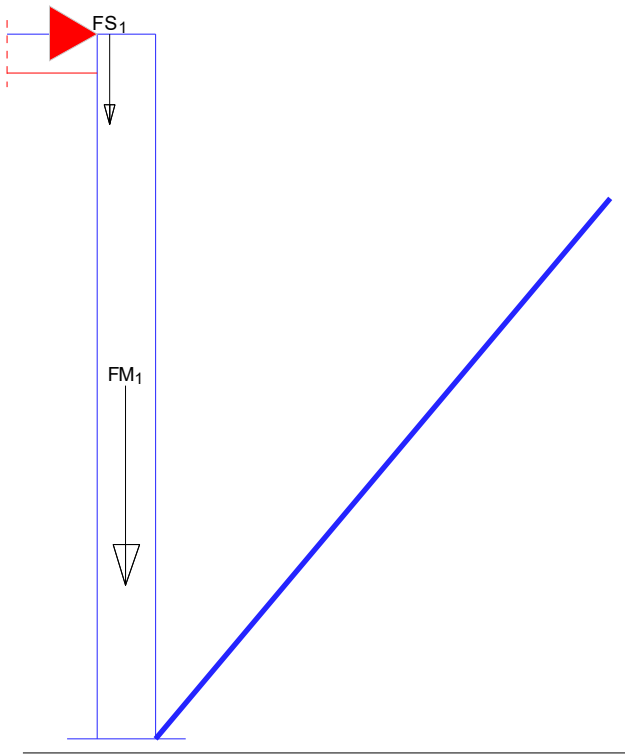
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d ₁	S _{sx}	d ₂	S _{dx}	d ₂	e _a	a	p	λ	f _k	f _d SLU	f _d SLV	τ _g	τ _{gd} SLU	τ _{gd} SLV
0.00	3.55	30.00	3.35		0	-8.40			1.68	0.00	1.00	11.17	65.00	27.08	27.08	1.25	0.52	0.52
					0	-8.40												

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN2 _{sx}	ΣN2 _{dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	3411.48	0.00	-8.40	10.07	0.00	-8991.29	0.00	---	---	1.68	0.34	0.66	-91036.30	---
								1.77	-6049.23	0.00	---	---	5.04	1.01	0.42	-57608.00	---

Verifiche cinematicismi
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM ₁		4526.25	0.00	1.77	Peso maschio piano 1
FS ₁		2052.75	0.08	3.55	Peso solaio piano 1

Massa partecipante al cinematicismo M'=5962.84 <kg>
 Frazione di massa partecipante e'=0.89
 Analisi cinematica non lineare
 Capacità di spostamento ultimo d_u'=79.27 <mm>
 Domanda di spostamento [C8A.4.11]=41.24 <mm>
 Indice di sicurezza in termini di accelerazione ζ_E (A_g)=1.9223

Maschio in muratura ordinaria n. 7

Xg=6.30 <m> Yg=4.45 <m> L=2.40 <m>

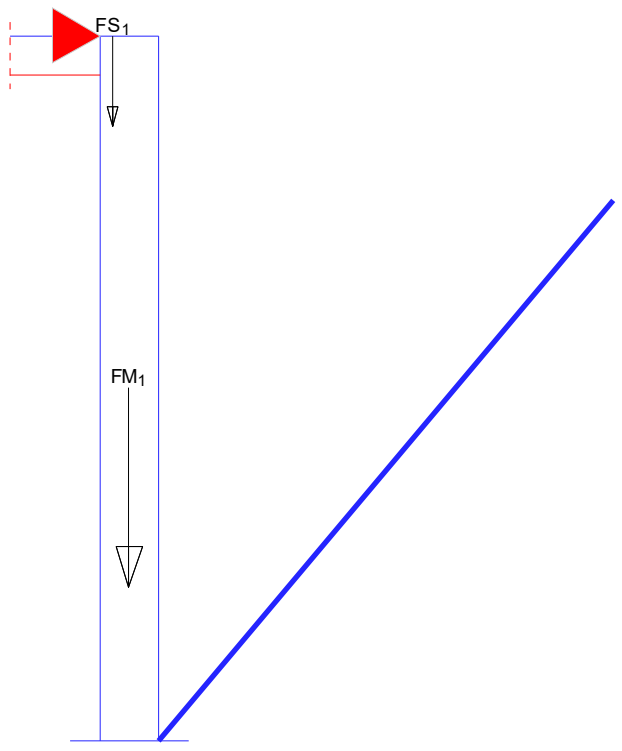
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d ₁	S _{sx}	d ₂	S _{dx}	d ₂	e _a	a	p	λ	f _k	f _d SLU	f _d SLV	τ _g	τ _{gd} SLU	τ _{gd} SLV
0.00	3.55	30.00	3.35		0	-8.40			1.68	0.00	1.00	11.17	65.00	27.08	27.08	1.25	0.52	0.52
					0	-8.40												

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN2 _{sx}	ΣN2 _{dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	4816.20	0.00	-8.40	10.07	0.00	-13053.80	0.00	---	---	1.68	0.34	0.66	-128522.00	---
								1.77	-8900.33	0.00	---	---	5.04	1.01	0.42	-81329.00	---

Verifiche cinematicismi
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM ₁		6390.00	0.00	1.77	Peso maschio piano 1
FS ₁	2898.00	0.08	3.55		Peso solaio piano 1

Massa partecipante al cinematicismo M'=8418.12 <kg>
 Frazione di massa partecipante e'=0.89
 Analisi cinematica non lineare
 Capacità di spostamento ultimo d_u'=79.27 <mm>
 Domanda di spostamento [C8A.4.11]=41.24 <mm>
 Indice di sicurezza in termini di accelerazione ζ_E (A_g)=1.9223

Maschio in muratura ordinaria n. 8

Xg=9.50 <m> Yg=4.45 <m> L=1.60 <m>

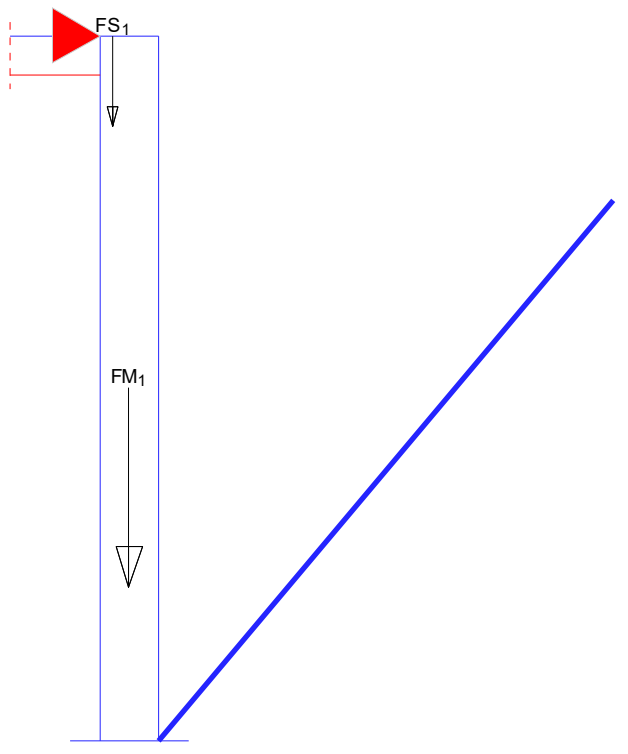
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d ₁	S _{sx}	d ₂	S _{dx}	d ₂	e _a	a	p	λ	f _k	f _d SLU	f _d SLV	τ _g	τ _{gd} SLU	τ _{gd} SLV
0.00	3.55	30.00	3.35		0	-8.40			1.68	0.00	1.00	11.17	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN2 _{sx}	ΣN2 _{dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<cm>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	3210.80	0.00	-8.40	10.07	0.00	-9865.91	0.00	---	---	1.68	0.34	0.66	-85681.30	---
								1.77	-7096.91	0.00	---	---	5.04	1.01	0.42	-54219.30	---

Verifiche cinematicismi
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM ₁		4260.00	0.00	1.77	Peso maschio piano 1
FS ₁	1932.00	0.08	3.55		Peso solaio piano 1

Massa partecipante al cinematicismo M'=5612.08 <kg>
 Frazione di massa partecipante e'=0.89
 Analisi cinematica non lineare
 Capacità di spostamento ultimo d_u'=79.27 <mm>
 Domanda di spostamento [C8A.4.11]=41.24 <mm>
 Indice di sicurezza in termini di accelerazione ζ_E (A_g)=1.9223

Maschio in muratura ordinaria n. 9

Xg=0.15 <m> Yg=2.30 <m> L=4.60 <m>

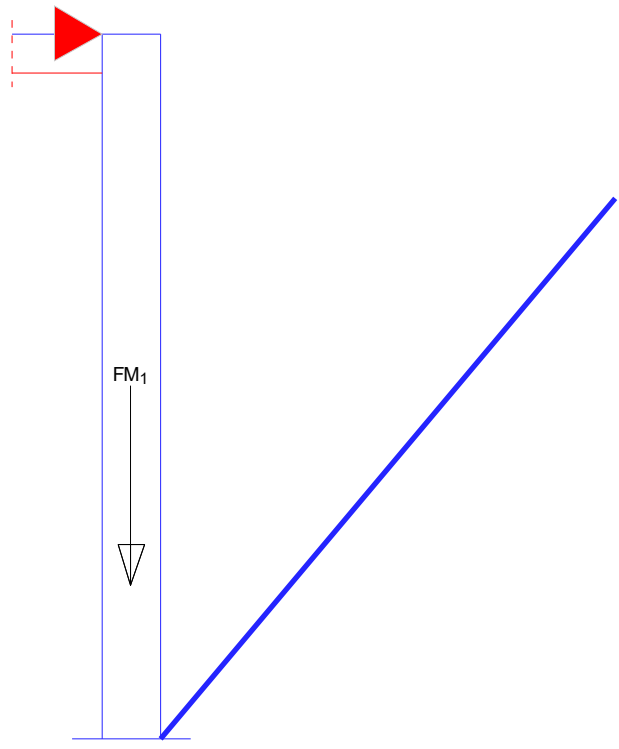
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d ₁	S _{sx}	d ₂	S _{dx}	d ₂	e _a	a	p	λ	f _k	f _{d SLU}	f _{d SLV}	τ ₀	τ _{0d SLU}	τ _{0d SLV}
0.00	3.55	30.00	3.35		0	-8.40			1.68	4.60	0.77	8.62	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN2 _{sx}	ΣN2 _{dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<cm>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	0.00	0.00	0.00	1.68	0.00	-17990.60	0.00	---	---	1.68	0.34	0.72	-269495.00	---
								1.77	-10029.70	0.00	---	---	1.68	0.34	0.72	-269495.00	---

Verifiche cinematicismi
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM1		12247.50	0.00	1.77	Peso maschio piano 1

Massa partecipante al cinematicismo $M^*=12484.70$ <kg>
 Frazione di massa partecipante $e^*=1.00$
 Analisi cinematica non lineare
 Capacità di spostamento ultimo $d_u^*=60.00$ <mm>
 Domanda di spostamento [C8A.4.11]=36.00 <mm>
 Indice di sicurezza in termini di accelerazione ζ_E (A_g)=1.6665

Maschio in muratura ordinaria n. 10

$X_g=3.10$ <m> $Y_g=2.30$ <m> $L=4.60$ <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d1	Ssx	d2	Sdx	d2	ea	a	p	λ	f _k	f _d SLU	f _d SLV	τ ₀	τ _{ed} SLU	τ _{ed} SLV
<m>	<m>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	3.55	30.00	3.35		0.00	0.00	0.00	1.68	4.60	0.77	8.62		65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN2 _{sx}	ΣN2 _{dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
<m>	<m>	<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	0.00	0.00	0.00	1.68	0.00	-24139.00	0.00	---	---	1.68	0.34	0.72	-269495.00	---
								1.77	-16178.10	0.00	---	---	1.68	0.34	0.72	-269495.00	---

Maschio in muratura ordinaria n. 11

$X_g=6.00$ <m> $Y_g=2.30$ <m> $L=4.60$ <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	d1	Ssx	d2	Sdx	d2	ea	a	p	λ	f _k	f _d SLU	f _d SLV	τ ₀	τ _{ed} SLU	τ _{ed} SLV
<m>	<m>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	3.55	30.00	3.35		0.00	0.00	0.00	1.68	4.60	0.77	8.62		65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN2 _{sx}	ΣN2 _{dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
<m>	<m>	<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
33	SLU	0.00	0.00	0.00	0.00	0.00	1.68	0.00	-23877.50	0.00	---	---	1.68	0.34	0.72	-269495.00	---

Relazione di calcolo

								1.77	-15916.70	0.00	---	---	1.68	0.34	0.72	-269495.00	---
--	--	--	--	--	--	--	--	------	-----------	------	-----	-----	------	------	------	------------	-----

Maschio in muratura ordinaria n. 12

Xg=10.15 <m> Yg=2.30 <m> L=4.60 <m>

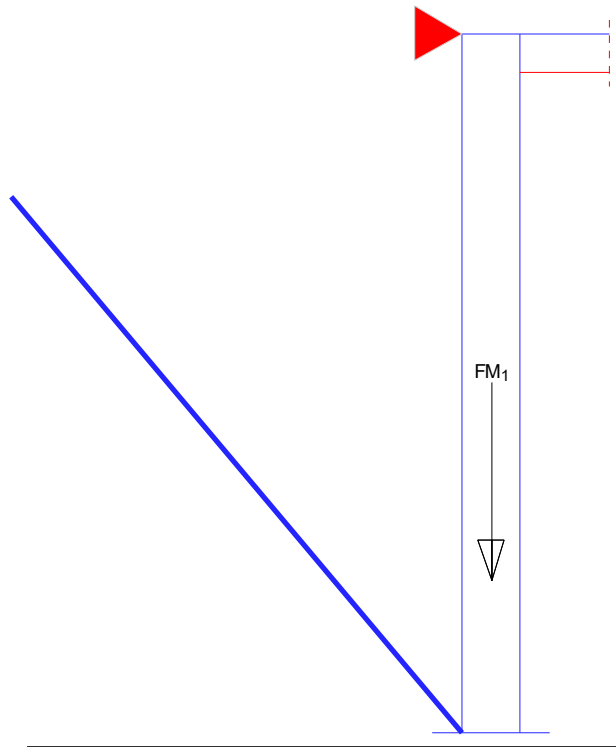
Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	d ₁ <cm>	S _{sx} <cm>	d ₂ <cm>	S _{dx} <cm>	d ₂ <cm>	e _a <cm>	a <m>	ρ	λ	f _k <daN/cmq>	f _d SLU <daN/cmq>	f _d SLV <daN/cmq>	τ ₀ <daN/cmq>	τ _{0d} SLU <daN/cmq>	τ _{0d} SLV <daN/cmq>
0.00	3.55	30.00	3.35			0	8.40	1.68	4.60	0.77	8.62		65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN2 _{sx} <daN>	ΣN2 _{dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
33	SLU	0.00	0.00	0.00	0.00	0.00	1.68	0.00	-18158.20	0.00	---	---	1.68	0.34	0.72	-269495.00	---
								1.77	-10197.30	0.00	---	---	1.68	0.34	0.72	-269495.00	---

Verifiche cinematici
Ribalt. a z=0.00



Elenco forze agenti

N	Fx	Fz	Xg	Zg	Commento
FM ₁		12247.50	0.00	1.77	Peso maschio piano 1

Massa partecipante al cinematismo M*=12484.70 <kg>
 Frazione di massa partecipante e*=1.00
 Analisi cinematica non lineare
 Capacità di spostamento ultimo d_u*=60.00 <mm>
 Domanda di spostamento [C8A.4.11]=36.00 <mm>
 Indice di sicurezza in termini di accelerazione ζ_E (A_g)=1.6665

Parete in muratura ordinaria n. 101

Xg=0.50 <m> Yg=0.15 <m> L=1.00 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi	Zf	Spess.	h	f _k	f _{d SLU}	f _{d SLV}	τ ₀	τ _{0d SLU}	τ _{0d SLV}
<m>	<m>	<cm>	<m>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN2 _{sx}	ΣN2 _{dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
1	SLV							1.77	-3614.94	83.67	---	---	---	---	---	---	513.86
3	SLV							1.77	-3766.33	83.67	---	---	---	---	---	---	534.14
5	SLV							1.77	-2844.73	83.67	---	---	---	---	---	---	409.13
7	SLV							1.77	-2996.12	83.67	---	---	---	---	---	---	429.92
9	SLV							1.77	-3168.74	83.67	---	---	---	---	---	---	453.50
11	SLV							1.77	-2937.68	83.67	---	---	---	---	---	---	421.91
13	SLV							1.77	-3673.39	83.67	---	---	---	---	---	---	521.70
15	SLV							1.77	-3442.32	83.67	---	---	---	---	---	---	490.61
17	SLV							1.77	-3542.75	83.67	---	---	---	---	---	---	504.15
19	SLV							1.77	-3694.15	83.67	---	---	---	---	---	---	524.48
21	SLV							1.77	-2772.54	83.67	---	---	---	---	---	---	399.19
23	SLV							1.77	-2923.93	83.67	---	---	---	---	---	---	420.02
25	SLV							1.77	-3096.56	83.67	---	---	---	---	---	---	443.66
27	SLV							1.77	-2865.49	83.67	---	---	---	---	---	---	411.99
29	SLV							1.77	-3601.20	83.67	---	---	---	---	---	---	512.01
31	SLV							1.77	-3370.13	83.67	---	---	---	---	---	---	480.85

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{ed} <daN>	Vu <daN>
1	SLV	0.00	-4946.19	539.12	2295.98	247.36	2755.67
1	SLV	1.77	-3614.94	100.06	1712.86	247.36	2491.38
3	SLV	0.00	-5097.58	534.65	2360.66	244.64	2784.13
3	SLV	1.77	-3766.33	100.42	1780.47	244.64	2522.83
5	SLV	0.00	-4175.98	-463.66	1961.74	204.62	2606.03
5	SLV	1.77	-2844.73	-100.46	1363.78	204.62	2324.79
7	SLV	0.00	-4327.37	-468.14	2028.11	207.34	2636.11
7	SLV	1.77	-2996.12	-100.10	1433.07	207.34	2358.47
9	SLV	0.00	-4499.99	193.37	2103.39	92.34	2670.00
9	SLV	1.77	-3168.74	29.46	1511.68	92.34	2396.28
11	SLV	0.00	-4268.93	-107.47	2002.53	43.25	2624.54
11	SLV	1.77	-2937.68	-30.70	1406.36	43.25	2345.53
13	SLV	0.00	-5004.63	178.46	2320.99	83.27	2766.69
13	SLV	1.77	-3673.39	30.65	1739.00	83.27	2503.57
15	SLV	0.00	-4773.57	-122.38	2221.81	52.33	2722.84
15	SLV	1.77	-3442.32	-29.50	1635.37	52.33	2455.03
17	SLV	0.00	-4874.00	468.14	2265.01	207.34	2741.99
17	SLV	1.77	-3542.75	100.10	1680.51	207.34	2476.24
19	SLV	0.00	-5025.40	463.66	2329.86	204.62	2770.59
19	SLV	1.77	-3694.15	100.46	1748.27	204.62	2507.88
21	SLV	0.00	-4103.79	-534.65	1929.97	244.64	2591.56
21	SLV	1.77	-2772.54	-100.42	1330.62	244.64	2308.56
23	SLV	0.00	-4255.18	-539.12	1996.50	247.36	2621.81
23	SLV	1.77	-2923.93	-100.06	1400.07	247.36	2342.47
25	SLV	0.00	-4427.80	122.38	2071.96	52.33	2655.88
25	SLV	1.77	-3096.56	29.50	1478.86	52.33	2380.54
27	SLV	0.00	-4196.74	-178.46	1970.86	83.27	2610.17
27	SLV	1.77	-2865.49	-30.65	1373.30	83.27	2329.44
29	SLV	0.00	-4932.45	107.47	2290.09	43.25	2753.07
29	SLV	1.77	-3601.20	30.70	1706.71	43.25	2488.50
31	SLV	0.00	-4701.38	-193.37	2190.67	92.34	2709.00
31	SLV	1.77	-3370.13	-29.46	1602.84	92.34	2439.66

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	95.57
0.00	3.55	8	SLD	0.01	0.02	98.73
0.00	3.55	14	SLD	0.00	0.01	137.91
0.00	3.55	20	SLD	0.01	0.02	99.50
0.00	3.55	26	SLD	0.00	0.01	136.97
0.00	3.55	32	SLD	0.00	0.01	148.04

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	95.41
0.00	3.55	10	SLD	0.00	0.01	145.38
0.00	3.55	16	SLD	0.00	0.01	139.20
0.00	3.55	22	SLD	0.01	0.02	96.39
0.00	3.55	28	SLD	0.00	0.01	137.67

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	100.62
0.00	3.55	12	SLD	0.00	0.01	152.70
0.00	3.55	18	SLD	0.01	0.02	97.41
0.00	3.55	24	SLD	0.01	0.02	96.81
0.00	3.55	30	SLD	0.00	0.01	153.01

Parete in muratura ordinaria n. 102

Xg=3.05 <m> Yg=0.15 <m> L=1.70 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	f _k <daN/cm ² >	f _d SLU <daN/cm ² >	f _d SLV <daN/cm ² >	τ ₀ <daN/cm ² >	τ _{0d} SLU <daN/cm ² >	τ _{0d} SLV <daN/cm ² >
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN _{2sx} <daN>	ΣN _{2dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-4087.47	82.02	---	---	---	---	---	---	591.78
3	SLV							1.77	-4292.19	82.02	---	---	---	---	---	---	620.29
5	SLV							1.77	-4210.76	82.02	---	---	---	---	---	---	608.96
7	SLV							1.77	-4415.48	82.02	---	---	---	---	---	---	637.41
9	SLV							1.77	-3891.79	82.02	---	---	---	---	---	---	564.42
11	SLV							1.77	-3928.77	82.02	---	---	---	---	---	---	569.60
13	SLV							1.77	-4574.18	82.02	---	---	---	---	---	---	659.40
15	SLV							1.77	-4611.17	82.02	---	---	---	---	---	---	664.51
17	SLV							1.77	-4051.66	82.02	---	---	---	---	---	---	586.78
19	SLV							1.77	-4256.38	82.02	---	---	---	---	---	---	615.31
21	SLV							1.77	-4174.95	82.02	---	---	---	---	---	---	603.97
23	SLV							1.77	-4379.67	82.02	---	---	---	---	---	---	632.44
25	SLV							1.77	-3855.97	82.02	---	---	---	---	---	---	559.40
27	SLV							1.77	-3892.96	82.02	---	---	---	---	---	---	564.58
29	SLV							1.77	-4538.37	82.02	---	---	---	---	---	---	654.44

Relazione di calcolo

31	SLV						1.77	-4575.35	82.02	---	---	---	---	---	---	659.56
----	-----	--	--	--	--	--	------	----------	-------	-----	-----	-----	-----	-----	-----	--------

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-6350.60	1271.21	5106.03	436.57	4278.03
1	SLV	1.77	-4087.47	496.30	3353.39	436.57	3780.73
3	SLV	0.00	-6555.32	1264.91	5260.91	432.71	4320.19
3	SLV	1.77	-4292.19	496.86	3514.98	432.71	3828.37
5	SLV	0.00	-6473.89	-1172.70	5199.37	381.00	4303.47
5	SLV	1.77	-4210.76	-496.42	3450.78	381.00	3809.49
7	SLV	0.00	-6678.61	-1179.00	5353.89	384.87	4345.38
7	SLV	1.77	-4415.48	-495.87	3612.01	384.87	3856.78
9	SLV	0.00	-6154.91	423.19	4957.41	154.93	4237.33
9	SLV	1.77	-3891.79	148.20	3198.36	154.93	3734.62
11	SLV	0.00	-6191.90	-309.98	4985.54	90.35	4245.05
11	SLV	1.77	-3928.77	-149.62	3227.71	90.35	3743.38
13	SLV	0.00	-6837.31	402.19	5473.26	142.05	4377.60
13	SLV	1.77	-4574.18	150.05	3736.57	142.05	3893.04
15	SLV	0.00	-6874.29	-330.98	5501.02	103.22	4385.08
15	SLV	1.77	-4611.17	-147.76	3765.55	103.22	3901.45
17	SLV	0.00	-6314.79	1179.00	5078.87	384.87	4270.61
17	SLV	1.77	-4051.66	495.87	3325.06	384.87	3772.33
19	SLV	0.00	-6519.50	1172.70	5233.86	381.00	4312.84
19	SLV	1.77	-4256.38	496.42	3486.76	381.00	3820.08
21	SLV	0.00	-6438.07	-1264.91	5172.28	432.71	4296.09
21	SLV	1.77	-4174.95	-496.86	3422.51	432.71	3801.16
23	SLV	0.00	-6642.79	-1271.21	5326.90	436.57	4338.08
23	SLV	1.77	-4379.67	-496.30	3583.85	436.57	3848.55
25	SLV	0.00	-6119.10	330.98	4930.15	103.22	4229.84
25	SLV	1.77	-3855.97	147.76	3169.93	103.22	3726.12
27	SLV	0.00	-6156.08	-402.19	4958.30	142.05	4237.58
27	SLV	1.77	-3892.96	-150.05	3199.29	142.05	3734.90
29	SLV	0.00	-6801.49	309.98	5446.35	90.35	4370.35
29	SLV	1.77	-4538.37	149.62	3708.49	90.35	3884.89
31	SLV	0.00	-6838.48	-423.19	5474.14	154.93	4377.84
31	SLV	1.77	-4575.35	-148.20	3737.49	154.93	3893.31

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	95.28
0.00	3.55	8	SLD	0.01	0.02	99.10
0.00	3.55	14	SLD	0.00	0.01	138.86
0.00	3.55	20	SLD	0.01	0.02	99.11
0.00	3.55	26	SLD	0.00	0.01	138.13
0.00	3.55	32	SLD	0.00	0.01	142.56

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	95.62
0.00	3.55	10	SLD	0.00	0.01	140.01
0.00	3.55	16	SLD	0.00	0.01	140.53
0.00	3.55	22	SLD	0.01	0.02	96.61
0.00	3.55	28	SLD	0.00	0.01	138.51

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	100.19
0.00	3.55	12	SLD	0.00	0.01	146.16
0.00	3.55	18	SLD	0.01	0.02	97.77
0.00	3.55	24	SLD	0.01	0.02	96.53
0.00	3.55	30	SLD	0.00	0.01	146.64

Parete in muratura ordinaria n. 103

Xg=6.30 <m> Yg=0.15 <m> L=2.40 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	f _k <daN/cm²>	f _{d SLU} <daN/cm²>	f _{d SLV} <daN/cm²>	τ ₀ <daN/cm²>	τ _{0d SLU} <daN/cm²>	τ _{0d SLV} <daN/cm²>
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN2 _{sx} <daN>	ΣN2 _{dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-6435.53	115.79	---	---	---	---	---	---	927.85
3	SLV							1.77	-6680.24	115.79	---	---	---	---	---	---	961.65
5	SLV							1.77	-5694.04	115.79	---	---	---	---	---	---	824.76
7	SLV							1.77	-5938.75	115.79	---	---	---	---	---	---	858.89
9	SLV							1.77	-5890.51	115.79	---	---	---	---	---	---	852.17
11	SLV							1.77	-5668.06	115.79	---	---	---	---	---	---	821.13
13	SLV							1.77	-6706.22	115.79	---	---	---	---	---	---	965.23
15	SLV							1.77	-6483.77	115.79	---	---	---	---	---	---	934.52
17	SLV							1.77	-6460.07	115.79	---	---	---	---	---	---	931.24
19	SLV							1.77	-6704.78	115.79	---	---	---	---	---	---	965.03
21	SLV							1.77	-5718.58	115.79	---	---	---	---	---	---	828.19
23	SLV							1.77	-5963.29	115.79	---	---	---	---	---	---	862.31
25	SLV							1.77	-5915.05	115.79	---	---	---	---	---	---	855.59

Relazione di calcolo

27	SLV						1.77	-5692.60	115.79	---	---	---	---	---	---	824.56
29	SLV						1.77	-6730.76	115.79	---	---	---	---	---	---	968.62
31	SLV						1.77	-6508.31	115.79	---	---	---	---	---	---	937.91

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-9630.53	3144.42	10885.20	1065.65	6636.53
1	SLV	1.77	-6435.53	1252.89	7422.79	1065.65	5900.80
3	SLV	0.00	-9875.24	3125.42	11144.30	1054.68	6689.55
3	SLV	1.77	-6680.24	1253.36	7693.21	1054.68	5960.36
5	SLV	0.00	-8889.04	-2873.68	10094.80	913.00	6473.24
5	SLV	1.77	-5694.04	-1253.10	6598.12	913.00	5716.53
7	SLV	0.00	-9133.75	-2892.67	10356.50	923.97	6527.58
7	SLV	1.77	-5938.75	-1252.63	6871.16	923.97	5777.99
9	SLV	0.00	-9085.51	1060.25	10305.00	385.93	6516.91
9	SLV	1.77	-5890.51	375.23	6817.40	385.93	5765.93
11	SLV	0.00	-8863.06	-745.18	10067.00	207.67	6467.45
11	SLV	1.77	-5668.06	-376.57	6569.08	207.67	5709.97
13	SLV	0.00	-9901.22	996.93	11171.70	349.35	6695.15
13	SLV	1.77	-6706.22	376.83	7721.86	349.35	5966.65
15	SLV	0.00	-9678.77	-808.50	10936.30	244.24	6647.02
15	SLV	1.77	-6483.77	-374.97	7476.17	244.24	5912.59
17	SLV	0.00	-9655.07	2892.67	10911.20	923.97	6641.87
17	SLV	1.77	-6460.07	1252.63	7449.95	923.97	5906.80
19	SLV	0.00	-9899.78	2873.68	11170.20	913.00	6694.84
19	SLV	1.77	-6704.78	1253.10	7720.28	913.00	5966.30
21	SLV	0.00	-8913.58	-3125.42	10121.10	1054.68	6478.71
21	SLV	1.77	-5718.58	-1253.36	6625.54	1054.68	5722.72
23	SLV	0.00	-9158.29	-3144.42	10382.70	1065.65	6533.01
23	SLV	1.77	-5963.29	-1252.89	6898.50	1065.65	5784.12
25	SLV	0.00	-9110.05	808.50	10331.20	244.24	6522.34
25	SLV	1.77	-5915.05	374.97	6844.75	244.24	5772.07
27	SLV	0.00	-8887.60	-996.93	10093.30	349.35	6472.92
27	SLV	1.77	-5692.60	-376.83	6596.51	349.35	5716.17
29	SLV	0.00	-9925.76	745.18	11197.60	207.67	6700.44
29	SLV	1.77	-6730.76	376.57	7748.92	207.67	5972.58
31	SLV	0.00	-9703.31	-1060.25	10962.30	385.93	6652.35
31	SLV	1.77	-6508.31	-375.23	7503.31	385.93	5918.58

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	94.88
0.00	3.55	8	SLD	0.01	0.02	99.52
0.00	3.55	14	SLD	0.00	0.01	140.04
0.00	3.55	20	SLD	0.01	0.02	98.56
0.00	3.55	26	SLD	0.00	0.01	139.58
0.00	3.55	32	SLD	0.00	0.01	136.32

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	95.87
0.00	3.55	10	SLD	0.01	0.01	133.89
0.00	3.55	16	SLD	0.00	0.01	142.18
0.00	3.55	22	SLD	0.01	0.02	96.86
0.00	3.55	28	SLD	0.00	0.01	139.55

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	99.58
0.00	3.55	12	SLD	0.00	0.01	138.84
0.00	3.55	18	SLD	0.01	0.02	98.17
0.00	3.55	24	SLD	0.01	0.02	96.15
0.00	3.55	30	SLD	0.00	0.01	139.48

Parete in muratura ordinaria n. 104

Xg=9.50 <m> Yg=0.15 <m> L=1.60 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <cm>	f _k <daN/cmq>	f _{d SLU} <daN/cmq>	f _{d SLV} <daN/cmq>	τ ₀ <daN/cmq>	τ _{0d SLU} <daN/cmq>	τ _{0d SLV} <daN/cmq>
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN _{2sx} <daN>	ΣN _{2dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-3998.26	77.20	---	---	---	---	---	---	578.04
3	SLV							1.77	-4207.45	77.20	---	---	---	---	---	---	607.09
5	SLV							1.77	-5499.35	77.20	---	---	---	---	---	---	783.85
7	SLV							1.77	-5708.54	77.20	---	---	---	---	---	---	812.04
9	SLV							1.77	-4279.59	77.20	---	---	---	---	---	---	617.08
11	SLV							1.77	-4729.91	77.20	---	---	---	---	---	---	679.12
13	SLV							1.77	-4976.89	77.20	---	---	---	---	---	---	712.91
15	SLV							1.77	-5427.22	77.20	---	---	---	---	---	---	774.10
17	SLV							1.77	-4097.42	77.20	---	---	---	---	---	---	591.82
19	SLV							1.77	-4306.61	77.20	---	---	---	---	---	---	620.81
21	SLV							1.77	-5598.50	77.20	---	---	---	---	---	---	797.23

Relazione di calcolo

23	SLV						1.77	-5807.69	77.20	---	---	---	---	---	---	825.37
25	SLV						1.77	-4378.74	77.20	---	---	---	---	---	---	630.78
27	SLV						1.77	-4829.06	77.20	---	---	---	---	---	---	692.70
29	SLV						1.77	-5076.04	77.20	---	---	---	---	---	---	726.43
31	SLV						1.77	-5526.37	77.20	---	---	---	---	---	---	787.50

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-6128.26	1711.12	4630.71	757.61	4057.56
1	SLV	1.77	-3998.26	366.37	3082.87	757.61	3593.57
3	SLV	0.00	-6337.45	1690.17	4779.19	746.20	4100.30
3	SLV	1.77	-4207.45	365.67	3237.80	746.20	3641.76
5	SLV	0.00	-7629.35	-1458.87	5682.07	615.91	4354.95
5	SLV	1.77	-5499.35	-365.62	4180.53	615.91	3926.27
7	SLV	0.00	-7838.54	-1479.83	5826.00	627.33	4394.80
7	SLV	1.77	-5708.54	-366.32	4330.90	627.33	3970.42
9	SLV	0.00	-6409.58	626.08	4830.24	290.19	4114.93
9	SLV	1.77	-4279.59	110.99	3291.07	290.19	3658.23
11	SLV	0.00	-6859.91	-324.92	5147.24	121.86	4205.14
11	SLV	1.77	-4729.91	-108.61	3621.96	121.86	3759.41
13	SLV	0.00	-7106.89	556.22	5319.85	252.15	4253.80
13	SLV	1.77	-4976.89	108.65	3802.19	252.15	3813.77
15	SLV	0.00	-7557.21	-394.78	5632.30	159.91	4341.12
15	SLV	1.77	-5427.22	-110.94	4128.53	159.91	3910.93
17	SLV	0.00	-6227.41	1479.83	4701.17	627.33	4077.87
17	SLV	1.77	-4097.42	366.32	3156.39	627.33	3616.49
19	SLV	0.00	-6436.61	1458.87	4849.34	615.91	4120.40
19	SLV	1.77	-4306.61	365.62	3311.01	615.91	3664.38
21	SLV	0.00	-7728.50	-1690.17	5750.37	746.20	4373.88
21	SLV	1.77	-5598.50	-365.67	4251.88	746.20	3947.26
23	SLV	0.00	-7937.69	-1711.12	5894.00	757.61	4413.56
23	SLV	1.77	-5807.69	-366.37	4401.96	757.61	3991.18
25	SLV	0.00	-6508.74	394.78	4900.29	159.91	4134.96
25	SLV	1.77	-4378.74	110.94	3364.18	159.91	3680.75
27	SLV	0.00	-6959.06	-556.22	5216.64	252.15	4224.74
27	SLV	1.77	-4829.06	-108.65	3694.42	252.15	3781.33
29	SLV	0.00	-7206.04	324.92	5388.89	121.86	4273.18
29	SLV	1.77	-5076.04	108.61	3874.29	121.86	3835.37
31	SLV	0.00	-7656.37	-626.08	5700.70	290.19	4360.12
31	SLV	1.77	-5526.37	-110.99	4199.99	290.19	3932.00

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	94.42
0.00	3.55	8	SLD	0.01	0.02	99.92
0.00	3.55	14	SLD	0.00	0.01	141.31
0.00	3.55	20	SLD	0.01	0.02	97.90
0.00	3.55	26	SLD	0.00	0.01	141.13
0.00	3.55	32	SLD	0.01	0.02	130.26

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	96.11
0.00	3.55	10	SLD	0.01	0.02	127.93
0.00	3.55	16	SLD	0.00	0.01	143.96
0.00	3.55	22	SLD	0.01	0.02	97.10
0.00	3.55	28	SLD	0.00	0.01	140.67

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	98.85
0.00	3.55	12	SLD	0.01	0.02	131.83
0.00	3.55	18	SLD	0.01	0.02	98.56
0.00	3.55	24	SLD	0.01	0.02	95.70
0.00	3.55	30	SLD	0.01	0.02	132.59

Parete in muratura ordinaria n. 105

Xg=0.50 <m> Yg=4.45 <m> L=1.00 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	f _k <daN/cmq>	f _d SLU <daN/cmq>	f _d SLV <daN/cmq>	τ ₀ <daN/cmq>	τ _{0d} SLU <daN/cmq>	τ _{0d} SLV <daN/cmq>
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN2 _{sx} <daN>	ΣN2 _{dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-3698.25	83.67	---	---	---	---	---	---	525.03
3	SLV							1.77	-3549.35	83.67	---	---	---	---	---	---	505.04
5	SLV							1.77	-2931.95	83.67	---	---	---	---	---	---	421.12
7	SLV							1.77	-2783.05	83.67	---	---	---	---	---	---	400.63
9	SLV							1.77	-3603.76	83.67	---	---	---	---	---	---	512.36
11	SLV							1.77	-3373.88	83.67	---	---	---	---	---	---	481.36
13	SLV							1.77	-3107.43	83.67	---	---	---	---	---	---	445.14
15	SLV							1.77	-2877.54	83.67	---	---	---	---	---	---	413.65
17	SLV							1.77	-3769.00	83.67	---	---	---	---	---	---	534.50

Relazione di calcolo

19	SLV						1.77	-3620.10	83.67	---	---	---	---	---	---	514.55
21	SLV						1.77	-3002.70	83.67	---	---	---	---	---	---	430.82
23	SLV						1.77	-2853.80	83.67	---	---	---	---	---	---	410.38
25	SLV						1.77	-3674.51	83.67	---	---	---	---	---	---	521.85
27	SLV						1.77	-3444.62	83.67	---	---	---	---	---	---	490.92
29	SLV						1.77	-3178.17	83.67	---	---	---	---	---	---	454.79
31	SLV						1.77	-2948.28	83.67	---	---	---	---	---	---	423.36

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{ed} <daN>	Vu <daN>
1	SLV	0.00	-5029.50	467.94	2331.61	206.99	2771.37
1	SLV	1.77	-3698.25	100.53	1750.11	206.99	2508.73
3	SLV	0.00	-4880.60	474.58	2267.84	210.60	2743.24
3	SLV	1.77	-3549.35	100.76	1683.47	210.60	2477.63
5	SLV	0.00	-4263.20	-544.88	2000.02	250.41	2623.40
5	SLV	1.77	-2931.95	-100.40	1403.74	250.41	2344.25
7	SLV	0.00	-4114.30	-538.24	1934.60	246.80	2593.67
7	SLV	1.77	-2783.05	-100.16	1335.45	246.80	2310.93
9	SLV	0.00	-4935.01	105.70	2291.19	42.69	2753.55
9	SLV	1.77	-3603.76	29.93	1707.86	42.69	2489.04
11	SLV	0.00	-4705.13	-198.15	2192.29	94.53	2709.72
11	SLV	1.77	-3373.88	-30.35	1604.53	94.53	2440.46
13	SLV	0.00	-4438.68	127.85	2076.70	54.73	2658.01
13	SLV	1.77	-3107.43	30.71	1483.80	54.73	2382.92
15	SLV	0.00	-4208.79	-176.00	1976.15	82.50	2612.58
15	SLV	1.77	-2877.54	-29.56	1378.82	82.50	2332.13
17	SLV	0.00	-5100.25	538.24	2361.80	246.80	2784.63
17	SLV	1.77	-3769.00	100.16	1781.65	246.80	2523.38
19	SLV	0.00	-4951.34	544.88	2298.18	250.41	2756.64
19	SLV	1.77	-3620.10	100.40	1715.17	250.41	2492.46
21	SLV	0.00	-4333.95	-474.58	2030.99	210.60	2637.41
21	SLV	1.77	-3002.70	-100.76	1436.07	210.60	2359.92
23	SLV	0.00	-4185.05	-467.94	1965.72	206.99	2607.84
23	SLV	1.77	-2853.80	-100.53	1367.94	206.99	2326.82
25	SLV	0.00	-5005.76	176.00	2321.47	82.50	2766.90
25	SLV	1.77	-3674.51	29.56	1739.50	82.50	2503.80
27	SLV	0.00	-4775.87	-127.85	2222.80	54.73	2723.28
27	SLV	1.77	-3444.62	-30.71	1636.41	54.73	2455.52
29	SLV	0.00	-4509.42	198.15	2107.49	94.53	2671.84
29	SLV	1.77	-3178.17	30.35	1515.96	94.53	2398.33
31	SLV	0.00	-4279.53	-105.70	2007.17	42.69	2626.64
31	SLV	1.77	-2948.28	-29.93	1411.21	42.69	2347.88

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	98.79
0.00	3.55	8	SLD	0.01	0.02	95.71
0.00	3.55	14	SLD	0.00	0.01	138.72
0.00	3.55	20	SLD	0.01	0.02	95.31
0.00	3.55	26	SLD	0.00	0.01	136.01
0.00	3.55	32	SLD	0.00	0.01	153.40

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	97.35
0.00	3.55	10	SLD	0.00	0.01	150.79
0.00	3.55	16	SLD	0.00	0.01	138.14
0.00	3.55	22	SLD	0.01	0.02	98.26
0.00	3.55	28	SLD	0.00	0.01	138.35

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	96.23
0.00	3.55	12	SLD	0.00	0.01	146.96
0.00	3.55	18	SLD	0.01	0.02	94.58
0.00	3.55	24	SLD	0.01	0.02	100.00
0.00	3.55	30	SLD	0.00	0.01	147.14

Parete in muratura ordinaria n. 106

Xg=3.05 <m> Yg=4.45 <m> L=1.70 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <cm>	f _k <daN/cmq>	f _{d SLU} <daN/cmq>	f _{d SLV} <daN/cmq>	τ ₀ <daN/cmq>	τ _{0d SLU} <daN/cmq>	τ _{0d SLV} <daN/cmq>
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN2 _{sx} <daN>	ΣN2 _{dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-4250.66	82.02	---	---	---	---	---	---	614.51
3	SLV							1.77	-4045.83	82.02	---	---	---	---	---	---	585.96
5	SLV							1.77	-4373.70	82.02	---	---	---	---	---	---	631.62
7	SLV							1.77	-4168.87	82.02	---	---	---	---	---	---	603.13
9	SLV							1.77	-4532.69	82.02	---	---	---	---	---	---	653.65
11	SLV							1.77	-4569.60	82.02	---	---	---	---	---	---	658.76
13	SLV							1.77	-3849.93	82.02	---	---	---	---	---	---	558.55

Relazione di calcolo

15	SLV						1.77	-3886.84	82.02	---	---	---	---	---	---	563.73
17	SLV						1.77	-4286.61	82.02	---	---	---	---	---	---	619.51
19	SLV						1.77	-4081.78	82.02	---	---	---	---	---	---	590.98
21	SLV						1.77	-4409.65	82.02	---	---	---	---	---	---	636.61
23	SLV						1.77	-4204.83	82.02	---	---	---	---	---	---	608.13
25	SLV						1.77	-4568.64	82.02	---	---	---	---	---	---	658.63
27	SLV						1.77	-4605.55	82.02	---	---	---	---	---	---	663.73
29	SLV						1.77	-3885.88	82.02	---	---	---	---	---	---	563.59
31	SLV						1.77	-3922.79	82.02	---	---	---	---	---	---	568.76

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-6513.78	1178.89	5229.53	384.30	4311.67
1	SLV	1.77	-4250.66	496.76	3482.25	384.30	3818.75
3	SLV	0.00	-6308.95	1187.03	5074.44	388.64	4269.40
3	SLV	1.77	-4045.83	497.19	3320.45	388.64	3770.96
5	SLV	0.00	-6636.83	-1277.87	5322.41	440.29	4336.86
5	SLV	1.77	-4373.70	-496.35	3579.15	440.29	3847.18
7	SLV	0.00	-6432.00	-1269.73	5167.68	435.95	4294.84
7	SLV	1.77	-4168.87	-495.92	3417.72	435.95	3799.74
9	SLV	0.00	-6795.81	309.53	5442.08	90.63	4369.20
9	SLV	1.77	-4532.69	148.66	3704.04	90.63	3883.59
11	SLV	0.00	-6832.73	-427.50	5469.82	156.75	4376.67
11	SLV	1.77	-4569.60	-149.27	3732.98	156.75	3892.00
13	SLV	0.00	-6113.05	336.66	4925.55	105.10	4228.58
13	SLV	1.77	-3849.93	150.10	3165.13	105.10	3724.68
15	SLV	0.00	-6149.97	-400.37	4953.65	142.28	4236.30
15	SLV	1.77	-3886.84	-147.83	3194.44	142.28	3733.45
17	SLV	0.00	-6549.74	1269.73	5256.69	435.95	4319.05
17	SLV	1.77	-4286.61	495.92	3510.59	435.95	3827.08
19	SLV	0.00	-6344.91	1277.87	5101.71	440.29	4276.85
19	SLV	1.77	-4081.78	496.35	3348.89	440.29	3779.39
21	SLV	0.00	-6672.78	-1187.03	5349.50	388.64	4344.20
21	SLV	1.77	-4409.65	-497.19	3607.43	388.64	3855.44
23	SLV	0.00	-6467.95	-1178.89	5194.88	384.30	4302.25
23	SLV	1.77	-4204.83	-496.76	3446.10	384.30	3808.11
25	SLV	0.00	-6831.77	400.37	5469.10	142.28	4376.48
25	SLV	1.77	-4568.64	147.83	3732.23	142.28	3891.78
27	SLV	0.00	-6868.68	-336.66	5496.81	105.10	4383.94
27	SLV	1.77	-4605.55	-150.10	3761.16	105.10	3900.17
29	SLV	0.00	-6149.01	427.50	4952.92	156.75	4236.10
29	SLV	1.77	-3885.88	149.27	3193.68	156.75	3733.22
31	SLV	0.00	-6185.92	-309.53	4981.00	90.63	4243.81
31	SLV	1.77	-3922.79	-148.66	3222.97	90.63	3741.96

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.	Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.	Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	98.47	0.00	3.55	4	SLD	0.01	0.02	97.58	0.00	3.55	6	SLD	0.01	0.02	95.85
0.00	3.55	8	SLD	0.01	0.02	96.05	0.00	3.55	10	SLD	0.00	0.01	144.81	0.00	3.55	12	SLD	0.00	0.01	141.11
0.00	3.55	14	SLD	0.00	0.01	139.69	0.00	3.55	16	SLD	0.00	0.01	139.44	0.00	3.55	18	SLD	0.01	0.02	94.91
0.00	3.55	20	SLD	0.01	0.02	94.96	0.00	3.55	22	SLD	0.01	0.02	98.49	0.00	3.55	24	SLD	0.01	0.02	99.69
0.00	3.55	26	SLD	0.00	0.01	137.15	0.00	3.55	28	SLD	0.00	0.01	139.21	0.00	3.55	30	SLD	0.00	0.01	141.45
0.00	3.55	32	SLD	0.00	0.01	147.32														

Parete in muratura ordinaria n. 107

Xg=6.30 <m> Yg=4.45 <m> L=2.40 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	f _k <daN/cm²>	f _d SLU <daN/cm²>	f _d SLV <daN/cm²>	τ ₀ <daN/cm²>	τ _{0d} SLU <daN/cm²>	τ _{0d} SLV <daN/cm²>
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN2 _{sx} <daN>	ΣN2 _{dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-6691.22	115.79	---	---	---	---	---	---	963.16
3	SLV							1.77	-6446.70	115.79	---	---	---	---	---	---	929.39
5	SLV							1.77	-5960.64	115.79	---	---	---	---	---	---	861.94
7	SLV							1.77	-5716.12	115.79	---	---	---	---	---	---	827.85
9	SLV							1.77	-6720.79	115.79	---	---	---	---	---	---	967.24

Relazione di calcolo

11	SLV						1.77	-6501.61	115.79	---	---	---	---	---	---	936.99
13	SLV						1.77	-5905.73	115.79	---	---	---	---	---	---	854.30
15	SLV						1.77	-5686.55	115.79	---	---	---	---	---	---	823.72
17	SLV						1.77	-6666.33	115.79	---	---	---	---	---	---	959.73
19	SLV						1.77	-6421.81	115.79	---	---	---	---	---	---	925.95
21	SLV						1.77	-5935.75	115.79	---	---	---	---	---	---	858.48
23	SLV						1.77	-5691.23	115.79	---	---	---	---	---	---	824.37
25	SLV						1.77	-6695.90	115.79	---	---	---	---	---	---	963.81
27	SLV						1.77	-6476.72	115.79	---	---	---	---	---	---	933.55
29	SLV						1.77	-5880.84	115.79	---	---	---	---	---	---	850.83
31	SLV						1.77	-5661.66	115.79	---	---	---	---	---	---	820.24

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-9886.22	2890.08	11155.90	922.13	6691.92
1	SLV	1.77	-6691.22	1253.30	7705.32	922.13	5963.02
3	SLV	0.00	-9641.70	2910.93	10897.00	933.68	6638.96
3	SLV	1.77	-6446.70	1253.66	7435.16	933.68	5903.53
5	SLV	0.00	-9155.63	-3162.55	10379.90	1075.80	6532.42
5	SLV	1.77	-5960.64	-1253.01	6895.54	1075.80	5783.46
7	SLV	0.00	-8911.12	-3141.69	10118.40	1064.25	6478.16
7	SLV	1.77	-5716.12	-1252.66	6622.79	1064.25	5722.10
9	SLV	0.00	-9915.79	747.33	11187.10	209.38	6698.29
9	SLV	1.77	-6720.79	375.68	7737.93	209.38	5970.17
11	SLV	0.00	-9696.61	-1068.46	10955.20	390.00	6650.89
11	SLV	1.77	-6501.61	-376.22	7495.90	390.00	5916.94
13	SLV	0.00	-9100.73	816.85	10321.20	247.88	6520.28
13	SLV	1.77	-5905.73	376.87	6834.37	247.88	5769.74
15	SLV	0.00	-8881.55	-998.94	10086.80	351.50	6471.57
15	SLV	1.77	-5686.55	-375.03	6589.75	351.50	5714.64
17	SLV	0.00	-9861.33	3141.69	11129.60	1064.25	6686.55
17	SLV	1.77	-6666.33	1252.66	7677.86	1064.25	5956.99
19	SLV	0.00	-9616.81	3162.55	10870.60	1075.80	6633.55
19	SLV	1.77	-6421.81	1253.01	7407.61	1075.80	5897.44
21	SLV	0.00	-9130.75	-2910.93	10353.30	933.68	6526.92
21	SLV	1.77	-5935.75	-1253.66	6867.81	933.68	5777.24
23	SLV	0.00	-8886.23	-2890.08	10091.80	922.13	6472.61
23	SLV	1.77	-5691.23	-1253.30	6594.98	922.13	5715.82
25	SLV	0.00	-9890.90	998.94	11160.80	351.50	6692.93
25	SLV	1.77	-6695.90	375.03	7710.48	351.50	5964.15
27	SLV	0.00	-9671.72	-816.85	10928.80	247.88	6645.49
27	SLV	1.77	-6476.72	-376.87	7468.37	247.88	5910.87
29	SLV	0.00	-9075.84	1068.46	10294.70	390.00	6514.76
29	SLV	1.77	-5880.84	376.22	6806.62	390.00	5763.51
31	SLV	0.00	-8856.66	-747.33	10060.10	209.38	6466.02
31	SLV	1.77	-5661.66	-375.68	6561.93	209.38	5708.35

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	98.03
0.00	3.55	8	SLD	0.01	0.02	96.44
0.00	3.55	14	SLD	0.00	0.01	140.90
0.00	3.55	20	SLD	0.01	0.02	94.48
0.00	3.55	26	SLD	0.00	0.01	138.57
0.00	3.55	32	SLD	0.00	0.01	140.47

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	97.84
0.00	3.55	10	SLD	0.00	0.01	138.07
0.00	3.55	16	SLD	0.00	0.01	141.05
0.00	3.55	22	SLD	0.01	0.02	98.75
0.00	3.55	28	SLD	0.00	0.01	140.26

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	95.32
0.00	3.55	12	SLD	0.00	0.01	134.49
0.00	3.55	18	SLD	0.01	0.02	95.28
0.00	3.55	24	SLD	0.01	0.02	99.27
0.00	3.55	30	SLD	0.00	0.01	134.99

Parete in muratura ordinaria n. 108

Xg=9.50 <m> Yg=4.45 <m> L=1.60 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	f _k <daN/cmq>	f _{d SLU} <daN/cmq>	f _{d SLV} <daN/cmq>	τ ₀ <daN/cmq>	τ _{0d SLU} <daN/cmq>	τ _{0d SLV} <daN/cmq>
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN _{2sx} <daN>	ΣN _{2dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-4316.40	77.20	---	---	---	---	---	---	622.17
3	SLV							1.77	-4110.61	77.20	---	---	---	---	---	---	593.65
5	SLV							1.77	-5803.33	77.20	---	---	---	---	---	---	824.78

Relazione di calcolo

7SLV							1.77	-5597.53	77.20	---	---	---	---	---	---	797.10
9SLV							1.77	-5076.92	77.20	---	---	---	---	---	---	726.55
11SLV							1.77	-5523.00	77.20	---	---	---	---	---	---	787.04
13SLV							1.77	-4390.94	77.20	---	---	---	---	---	---	632.47
15SLV							1.77	-4837.01	77.20	---	---	---	---	---	---	693.79
17SLV							1.77	-4218.56	77.20	---	---	---	---	---	---	608.63
19SLV							1.77	-4012.77	77.20	---	---	---	---	---	---	580.06
21SLV							1.77	-5705.48	77.20	---	---	---	---	---	---	811.63
23SLV							1.77	-5499.69	77.20	---	---	---	---	---	---	783.89
25SLV							1.77	-4979.08	77.20	---	---	---	---	---	---	713.21
27SLV							1.77	-5425.16	77.20	---	---	---	---	---	---	773.82
29SLV							1.77	-4293.09	77.20	---	---	---	---	---	---	618.95
31SLV							1.77	-4739.17	77.20	---	---	---	---	---	---	680.39

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-6446.40	1477.81	4856.27	625.91	4122.38
1	SLV	1.77	-4316.40	366.82	3318.24	625.91	3666.61
3	SLV	0.00	-6240.61	1493.46	4710.53	635.18	4080.57
3	SLV	1.77	-4110.61	366.01	3166.16	635.18	3619.53
5	SLV	0.00	-7933.33	-1723.99	5891.01	765.31	4412.73
5	SLV	1.77	-5803.33	-365.56	4398.83	765.31	3990.26
7	SLV	0.00	-7727.53	-1708.34	5749.70	756.03	4373.70
7	SLV	1.77	-5597.53	-366.38	4251.19	756.03	3947.05
9	SLV	0.00	-7206.92	338.92	5389.50	128.16	4273.35
9	SLV	1.77	-5076.92	111.44	3874.93	128.16	3835.56
11	SLV	0.00	-7653.00	-621.62	5698.38	289.21	4359.47
11	SLV	1.77	-5523.00	-108.28	4197.56	289.21	3931.28
13	SLV	0.00	-6520.94	391.09	4908.89	159.08	4137.42
13	SLV	1.77	-4390.94	108.72	3373.16	159.08	3683.51
15	SLV	0.00	-6967.01	-569.45	5222.20	258.28	4226.31
15	SLV	1.77	-4837.01	-111.00	3700.22	258.28	3783.08
17	SLV	0.00	-6348.56	1708.34	4787.06	756.03	4102.55
17	SLV	1.77	-4218.56	366.38	3246.01	756.03	3644.30
19	SLV	0.00	-6142.77	1723.99	4641.03	765.31	4060.54
19	SLV	1.77	-4012.77	365.56	3093.64	765.31	3596.94
21	SLV	0.00	-7835.48	-1493.46	5823.90	635.18	4394.22
21	SLV	1.77	-5705.48	-366.01	4328.71	635.18	3969.78
23	SLV	0.00	-7629.69	-1477.81	5682.31	625.91	4355.01
23	SLV	1.77	-5499.69	-366.82	4180.77	625.91	3926.34
25	SLV	0.00	-7109.08	569.45	5321.37	258.28	4254.23
25	SLV	1.77	-4979.08	111.00	3803.78	258.28	3814.25
27	SLV	0.00	-7555.16	-391.09	5630.88	159.08	4340.73
27	SLV	1.77	-5425.16	-108.72	4127.04	159.08	3910.49
29	SLV	0.00	-6423.09	621.62	4839.79	289.21	4117.66
29	SLV	1.77	-4293.09	108.28	3301.04	289.21	3661.31
31	SLV	0.00	-6869.17	-338.92	5153.72	128.16	4206.97
31	SLV	1.77	-4739.17	-111.44	3628.73	128.16	3761.47

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	97.52
0.00	3.55	8	SLD	0.01	0.02	96.80
0.00	3.55	14	SLD	0.00	0.01	142.18
0.00	3.55	20	SLD	0.01	0.02	93.89
0.00	3.55	26	SLD	0.00	0.01	140.09
0.00	3.55	32	SLD	0.01	0.01	133.86

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	98.09
0.00	3.55	10	SLD	0.01	0.02	131.57
0.00	3.55	16	SLD	0.00	0.01	142.79
0.00	3.55	22	SLD	0.01	0.02	99.01
0.00	3.55	28	SLD	0.00	0.01	141.40

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	94.68
0.00	3.55	12	SLD	0.01	0.02	128.08
0.00	3.55	18	SLD	0.01	0.02	95.63
0.00	3.55	24	SLD	0.01	0.02	98.78
0.00	3.55	30	SLD	0.01	0.02	128.72

Parete in muratura ordinaria n. 109

Xg=0.15 <m> Yg=2.30 <m> L=4.60 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	f _k <daN/cm ² >	f _{d SLU} <daN/cm ² >	f _{d SLV} <daN/cm ² >	τ ₀ <daN/cm ² >	τ _{0d SLU} <daN/cm ² >	τ _{0d SLV} <daN/cm ² >
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN2 _{sx} <daN>	ΣN2 _{dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Zv <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-6393.88	221.94	---	---	---	---	---	---	939.78

Relazione di calcolo

3SLV						1.77	-6391.39	221.94	---	---	---	---	---	---	939.42
5SLV						1.77	-8399.64	221.94	---	---	---	---	---	---	1226.63
7SLV						1.77	-8397.15	221.94	---	---	---	---	---	---	1226.28
9SLV						1.77	-7098.80	221.94	---	---	---	---	---	---	1041.03
11SLV						1.77	-7700.53	221.94	---	---	---	---	---	---	1127.08
13SLV						1.77	-7090.50	221.94	---	---	---	---	---	---	1039.84
15SLV						1.77	-7692.23	221.94	---	---	---	---	---	---	1125.90
17SLV						1.77	-6394.91	221.94	---	---	---	---	---	---	939.93
19SLV						1.77	-6392.42	221.94	---	---	---	---	---	---	939.57
21SLV						1.77	-8400.67	221.94	---	---	---	---	---	---	1226.78
23SLV						1.77	-8398.18	221.94	---	---	---	---	---	---	1226.43
25SLV						1.77	-7099.83	221.94	---	---	---	---	---	---	1041.17
27SLV						1.77	-7701.56	221.94	---	---	---	---	---	---	1127.23
29SLV						1.77	-7091.53	221.94	---	---	---	---	---	---	1039.98
31SLV						1.77	-7693.26	221.94	---	---	---	---	---	---	1126.04

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-12517.60	431.56	27656.10	166.78	15849.00
1	SLV	1.77	-6393.88	135.52	14409.90	166.78	13607.70
3	SLV	0.00	-12515.10	-1275.85	27650.90	496.79	15848.20
3	SLV	1.77	-6391.39	-394.05	14404.40	496.79	13606.70
5	SLV	0.00	-14523.40	447.82	31876.70	172.17	16517.10
5	SLV	1.77	-8399.64	142.22	18808.40	172.17	14380.30
7	SLV	0.00	-14520.90	-1259.59	31871.50	491.41	16516.30
7	SLV	1.77	-8397.15	-387.34	18802.90	491.41	14379.40
9	SLV	0.00	-13222.60	2429.22	29146.10	942.84	16087.00
9	SLV	1.77	-7098.80	755.69	15962.40	942.84	13884.10
11	SLV	0.00	-13824.30	2434.10	30412.20	944.45	16287.40
11	SLV	1.77	-7700.53	757.70	17281.90	944.45	14115.80
13	SLV	0.00	-13214.20	-3262.13	29128.60	1269.08	16084.20
13	SLV	1.77	-7090.50	-1009.52	15944.20	1269.08	13880.90
15	SLV	0.00	-13816.00	-3257.26	30394.80	1267.46	16284.60
15	SLV	1.77	-7692.23	-1007.51	17263.70	1267.46	14112.70
17	SLV	0.00	-12518.70	1259.59	27658.30	491.41	15849.40
17	SLV	1.77	-6394.91	387.34	14412.20	491.41	13608.10
19	SLV	0.00	-12516.20	-447.82	27653.00	172.17	15848.50
19	SLV	1.77	-6392.42	-142.22	14406.70	172.17	13607.10
21	SLV	0.00	-14524.40	1275.85	31878.90	496.79	16517.50
21	SLV	1.77	-8400.67	394.05	18810.60	496.79	14380.70
23	SLV	0.00	-14521.90	-431.56	31873.70	166.78	16516.70
23	SLV	1.77	-8398.18	-135.52	18805.20	166.78	14379.80
25	SLV	0.00	-13223.60	3257.26	29148.30	1267.46	16087.30
25	SLV	1.77	-7099.83	1007.51	15964.70	1267.46	13884.50
27	SLV	0.00	-13825.30	3262.13	30414.40	1269.08	16287.70
27	SLV	1.77	-7701.56	1009.52	17284.20	1269.08	14116.20
29	SLV	0.00	-13215.30	-2434.10	29130.80	944.45	16084.50
29	SLV	1.77	-7091.53	-757.70	15946.40	944.45	13881.30
31	SLV	0.00	-13817.00	-2429.22	30397.00	942.84	16285.00
31	SLV	1.77	-7693.26	-755.69	17266.00	942.84	14113.10

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	97.43
0.00	3.55	8	SLD	0.01	0.02	96.92
0.00	3.55	14	SLD	0.00	0.01	138.19
0.00	3.55	20	SLD	0.01	0.02	97.14
0.00	3.55	26	SLD	0.00	0.01	136.21
0.00	3.55	32	SLD	0.00	0.01	152.32

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	96.46
0.00	3.55	10	SLD	0.00	0.01	149.66
0.00	3.55	16	SLD	0.00	0.01	138.35
0.00	3.55	22	SLD	0.01	0.02	97.40
0.00	3.55	28	SLD	0.00	0.01	137.89

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	98.15
0.00	3.55	12	SLD	0.00	0.01	150.75
0.00	3.55	18	SLD	0.01	0.02	95.71
0.00	3.55	24	SLD	0.01	0.02	98.66
0.00	3.55	30	SLD	0.00	0.01	150.94

Parete in muratura ordinaria n. 110

Xg=3.10 <m> Yg=2.30 <m> L=4.60 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	f _k <daN/cmq>	f _d SLU <daN/cmq>	f _d SLV <daN/cmq>	τ ₀ <daN/cmq>	τ _{0d} SLU <daN/cmq>	τ _{0d} SLV <daN/cmq>
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1	e _{s1}	ΣN _{2sx}	ΣN _{2dx}	e _{s2}	e ₁	Zv	N	M _v	e _v	e ₂	e	m	Φ _t	Nu	Mu
----	-----	----	-----------------	-------------------	-------------------	-----------------	----------------	----	---	----------------	----------------	----------------	---	---	----------------	----	----

Relazione di calcolo

		<daN>	<cm>	<daN>	<daN>	<cm>	<cm>	<m>	<daN>	<daNm>	<cm>	<cm>	<cm>			<daN>	<daNm>
1	SLV							1.77	-11427.00	221.94	---	---	---	---	---	---	1652.40
3	SLV							1.77	-11427.10	221.94	---	---	---	---	---	---	1652.42
5	SLV							1.77	-11202.50	221.94	---	---	---	---	---	---	1621.13
7	SLV							1.77	-11202.70	221.94	---	---	---	---	---	---	1621.14
9	SLV							1.77	-11348.30	221.94	---	---	---	---	---	---	1641.44
11	SLV							1.77	-11281.00	221.94	---	---	---	---	---	---	1632.06
13	SLV							1.77	-11348.70	221.94	---	---	---	---	---	---	1641.50
15	SLV							1.77	-11281.40	221.94	---	---	---	---	---	---	1632.11
17	SLV							1.77	-11426.80	221.94	---	---	---	---	---	---	1652.37
19	SLV							1.77	-11427.00	221.94	---	---	---	---	---	---	1652.39
21	SLV							1.77	-11202.40	221.94	---	---	---	---	---	---	1621.10
23	SLV							1.77	-11202.50	221.94	---	---	---	---	---	---	1621.12
25	SLV							1.77	-11348.10	221.94	---	---	---	---	---	---	1641.41
27	SLV							1.77	-11280.80	221.94	---	---	---	---	---	---	1632.03
29	SLV							1.77	-11348.50	221.94	---	---	---	---	---	---	1641.47
31	SLV							1.77	-11281.20	221.94	---	---	---	---	---	---	1632.09

Verifiche per azioni nel piano

CC	TCC	Zv <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-17550.80	697.78	38136.70	294.35	17477.30
1	SLV	1.77	-11427.00	175.31	25336.80	294.35	15473.60
3	SLV	0.00	-17550.90	-993.14	38136.90	418.95	17477.30
3	SLV	1.77	-11427.10	-249.49	25337.00	418.95	15473.70
5	SLV	0.00	-17326.30	700.16	37677.10	295.84	17407.90
5	SLV	1.77	-11202.50	175.05	24857.30	295.84	15395.20
7	SLV	0.00	-17326.40	-990.75	37677.30	417.47	17407.90
7	SLV	1.77	-11202.70	-249.75	24857.50	417.47	15395.30
9	SLV	0.00	-17472.00	2671.35	37975.60	1127.06	17453.00
9	SLV	1.77	-11348.30	670.81	25168.70	1127.06	15446.20
11	SLV	0.00	-17404.70	2672.07	37837.70	1127.51	17432.10
11	SLV	1.77	-11281.00	670.74	25024.90	1127.51	15422.70
13	SLV	0.00	-17472.50	-2965.04	37976.50	1250.63	17453.10
13	SLV	1.77	-11348.70	-745.18	25169.60	1250.63	15446.30
15	SLV	0.00	-17405.10	-2964.33	37838.60	1250.18	17432.30
15	SLV	1.77	-11281.40	-745.26	25025.80	1250.18	15422.80
17	SLV	0.00	-17550.60	990.75	38136.30	417.47	17477.20
17	SLV	1.77	-11426.80	249.75	25336.40	417.47	15473.60
19	SLV	0.00	-17550.70	-700.16	38136.60	295.84	17477.20
19	SLV	1.77	-11427.00	-175.05	25336.70	295.84	15473.60
21	SLV	0.00	-17326.10	993.14	37676.70	418.95	17407.80
21	SLV	1.77	-11202.40	249.49	24856.90	418.95	15395.20
23	SLV	0.00	-17326.20	-697.78	37677.00	294.35	17407.90
23	SLV	1.77	-11202.50	-175.31	24857.20	294.35	15395.20
25	SLV	0.00	-17471.90	2964.33	37975.30	1250.18	17452.90
25	SLV	1.77	-11348.10	745.26	25168.40	1250.18	15446.10
27	SLV	0.00	-17404.50	2965.04	37837.40	1250.63	17432.10
27	SLV	1.77	-11280.80	745.18	25024.50	1250.63	15422.60
29	SLV	0.00	-17472.30	-2672.07	37976.10	1127.51	17453.00
29	SLV	1.77	-11348.50	-670.74	25169.20	1127.51	15446.30
31	SLV	0.00	-17405.00	-2671.35	37838.20	1127.06	17432.20
31	SLV	1.77	-11281.20	-670.81	25025.40	1127.06	15422.70

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	97.06
0.00	3.55	8	SLD	0.01	0.02	97.35
0.00	3.55	14	SLD	0.00	0.01	139.35
0.00	3.55	20	SLD	0.01	0.02	96.71
0.00	3.55	26	SLD	0.00	0.01	137.59
0.00	3.55	32	SLD	0.00	0.01	145.24

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	96.73
0.00	3.55	10	SLD	0.00	0.01	142.71
0.00	3.55	16	SLD	0.00	0.01	139.93
0.00	3.55	22	SLD	0.01	0.02	97.67
0.00	3.55	28	SLD	0.00	0.01	138.92

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	97.67
0.00	3.55	12	SLD	0.00	0.01	143.26
0.00	3.55	18	SLD	0.01	0.02	96.13
0.00	3.55	24	SLD	0.01	0.02	98.30
0.00	3.55	30	SLD	0.00	0.01	143.66

Parete in muratura ordinaria n. 111

Xg=6.00 <m> Yg=2.30 <m> L=4.60 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	f _k <daN/cmq>	f _d SLU <daN/cmq>	f _d SLV <daN/cmq>	τ ₀ <daN/cmq>	τ _{0d} SLU <daN/cmq>	τ _{0d} SLV <daN/cmq>
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN _{2sx} <daN>	ΣN _{2dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Z _v <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-10320.30	221.94	---	---	---	---	---	---	1497.76
3	SLV							1.77	-10320.00	221.94	---	---	---	---	---	---	1497.72
5	SLV							1.77	-11911.60	221.94	---	---	---	---	---	---	1719.74
7	SLV							1.77	-11911.30	221.94	---	---	---	---	---	---	1719.70
9	SLV							1.77	-10877.60	221.94	---	---	---	---	---	---	1575.78
11	SLV							1.77	-11355.00	221.94	---	---	---	---	---	---	1642.37
13	SLV							1.77	-10876.60	221.94	---	---	---	---	---	---	1575.63
15	SLV							1.77	-11354.00	221.94	---	---	---	---	---	---	1642.23
17	SLV							1.77	-10320.50	221.94	---	---	---	---	---	---	1497.79
19	SLV							1.77	-10320.20	221.94	---	---	---	---	---	---	1497.74
21	SLV							1.77	-11911.80	221.94	---	---	---	---	---	---	1719.77
23	SLV							1.77	-11911.50	221.94	---	---	---	---	---	---	1719.73
25	SLV							1.77	-10877.80	221.94	---	---	---	---	---	---	1575.81
27	SLV							1.77	-11355.20	221.94	---	---	---	---	---	---	1642.40
29	SLV							1.77	-10876.80	221.94	---	---	---	---	---	---	1575.66
31	SLV							1.77	-11354.20	221.94	---	---	---	---	---	---	1642.26

Verifiche per azioni nel piano

CC	TCC	Z _v <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-16444.10	911.31	35863.70	404.18	17132.50
1	SLV	1.77	-10320.30	193.89	22965.60	404.18	15083.10
3	SLV	0.00	-16443.80	-775.13	35863.00	343.42	17132.40
3	SLV	1.77	-10320.00	-165.55	22965.00	343.42	15083.00
5	SLV	0.00	-18035.30	938.13	39126.30	414.79	17626.10
5	SLV	1.77	-11911.60	201.88	26369.40	414.79	15641.50
7	SLV	0.00	-18035.00	-748.30	39125.70	332.81	17626.00
7	SLV	1.77	-11911.30	-157.57	26368.70	332.81	15641.40
9	SLV	0.00	-17001.40	2888.20	37010.50	1280.09	17307.00
9	SLV	1.77	-10877.60	616.04	24161.90	1280.09	15281.00
11	SLV	0.00	-17478.80	2896.25	37989.30	1283.28	17455.00
11	SLV	1.77	-11355.00	618.43	25183.00	1283.28	15448.50
13	SLV	0.00	-17000.30	-2733.25	37008.40	1211.91	17306.70
13	SLV	1.77	-10876.60	-582.11	24159.70	1211.91	15280.70
15	SLV	0.00	-17477.70	-2725.20	37987.20	1208.73	17454.70
15	SLV	1.77	-11354.00	-579.71	25180.80	1208.73	15448.10
17	SLV	0.00	-16444.30	748.30	35864.10	332.81	17132.60
17	SLV	1.77	-10320.50	157.57	22966.10	332.81	15083.20
19	SLV	0.00	-16444.00	-938.13	35863.50	414.79	17132.50
19	SLV	1.77	-10320.20	-201.88	22965.40	414.79	15083.10
21	SLV	0.00	-18035.50	775.13	39126.80	343.42	17626.10
21	SLV	1.77	-11911.80	165.55	26369.80	343.42	15641.60
23	SLV	0.00	-18035.20	-911.31	39126.10	404.18	17626.00
23	SLV	1.77	-11911.50	-193.89	26369.20	404.18	15641.50
25	SLV	0.00	-17001.60	2725.20	37011.00	1208.73	17307.00
25	SLV	1.77	-10877.80	579.71	24162.40	1208.73	15281.10
27	SLV	0.00	-17479.00	2733.25	37989.80	1211.91	17455.10
27	SLV	1.77	-11355.20	582.11	25183.50	1211.91	15448.60
29	SLV	0.00	-17000.50	-2896.25	37008.80	1283.28	17306.70
29	SLV	1.77	-10876.80	-618.43	24160.10	1283.28	15280.70
31	SLV	0.00	-17477.90	-2888.20	37987.60	1280.09	17454.80
31	SLV	1.77	-11354.20	-616.04	25181.20	1280.09	15448.20

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.	Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.	Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	96.67	0.00	3.55	4	SLD	0.01	0.02	96.96	0.00	3.55	6	SLD	0.01	0.02	97.15
0.00	3.55	8	SLD	0.01	0.02	97.72	0.00	3.55	10	SLD	0.00	0.01	136.71	0.00	3.55	12	SLD	0.00	0.01	136.84
0.00	3.55	14	SLD	0.00	0.01	140.45	0.00	3.55	16	SLD	0.00	0.01	141.44	0.00	3.55	18	SLD	0.01	0.02	96.48
0.00	3.55	20	SLD	0.01	0.02	96.23	0.00	3.55	22	SLD	0.01	0.02	97.91	0.00	3.55	24	SLD	0.01	0.02	97.93
0.00	3.55	26	SLD	0.00	0.01	138.91	0.00	3.55	28	SLD	0.00	0.01	139.89	0.00	3.55	30	SLD	0.00	0.01	137.38
0.00	3.55	32	SLD	0.00	0.01	139.13														

Parete in muratura ordinaria n. 112

Xg=10.15 <m> Yg=2.30 <m> L=4.60 <m>

Configurazione geometrica e caratteristiche dei materiali utilizzati

Zi <m>	Zf <m>	Spess. <cm>	h <m>	f _k <daN/cm ² >	f _d SLU <daN/cm ² >	f _d SLV <daN/cm ² >	τ ₀ <daN/cm ² >	τ _{0d} SLU <daN/cm ² >	τ _{0d} SLV <daN/cm ² >
0.00	3.55	30.00	3.35	65.00	27.08	27.08	1.25	0.52	0.52

Verifiche per carichi verticali ed azioni ortogonali

CC	TCC	N1 <daN>	e _{s1} <cm>	ΣN2 _{sx} <daN>	ΣN2 _{dx} <daN>	e _{s2} <cm>	e ₁ <cm>	Z _v <m>	N <daN>	M _v <daNm>	e _v <cm>	e ₂ <cm>	e <cm>	m	Φ _t	Nu <daN>	Mu <daNm>
1	SLV							1.77	-9286.79	221.94	---	---	---	---	---	---	1352.30
3	SLV							1.77	-9283.50	221.94	---	---	---	---	---	---	1351.83
5	SLV							1.77	-5688.50	221.94	---	---	---	---	---	---	838.00
7	SLV							1.77	-5685.21	221.94	---	---	---	---	---	---	837.52
9	SLV							1.77	-8031.23	221.94	---	---	---	---	---	---	1174.23
11	SLV							1.77	-6951.74	221.94	---	---	---	---	---	---	1019.94
13	SLV							1.77	-8020.26	221.94	---	---	---	---	---	---	1172.67
15	SLV							1.77	-6940.77	221.94	---	---	---	---	---	---	1018.37
17	SLV							1.77	-9286.06	221.94	---	---	---	---	---	---	1352.19
19	SLV							1.77	-9282.77	221.94	---	---	---	---	---	---	1351.73
21	SLV							1.77	-5687.76	221.94	---	---	---	---	---	---	837.89
23	SLV							1.77	-5684.47	221.94	---	---	---	---	---	---	837.41
25	SLV							1.77	-8030.50	221.94	---	---	---	---	---	---	1174.13
27	SLV							1.77	-6951.01	221.94	---	---	---	---	---	---	1019.84
29	SLV							1.77	-8019.52	221.94	---	---	---	---	---	---	1172.56
31	SLV							1.77	-6940.03	221.94	---	---	---	---	---	---	1018.26

Verifiche per azioni nel piano

CC	TCC	Z _v <m>	N <daN>	M _v <daNm>	Mu <daNm>	V _{Ed} <daN>	Vu <daN>
1	SLV	0.00	-15410.50	1349.75	33724.90	566.19	16804.20
1	SLV	1.77	-9286.79	344.76	20735.20	566.19	14709.10
3	SLV	0.00	-15407.30	-434.99	33718.10	181.69	16803.10
3	SLV	1.77	-9283.50	-112.50	20728.10	181.69	14707.90
5	SLV	0.00	-11812.20	1302.99	26158.00	548.51	15607.20
5	SLV	1.77	-5688.50	329.38	12849.30	548.51	13325.30
7	SLV	0.00	-11809.00	-481.76	26151.00	199.36	15606.10
7	SLV	1.77	-5685.21	-127.89	12842.00	199.36	13324.00
9	SLV	0.00	-14155.00	3415.58	31105.90	1432.52	16396.50
9	SLV	1.77	-8031.23	872.86	18004.90	1432.52	14241.60
11	SLV	0.00	-13075.50	3401.55	28835.90	1427.22	16037.60
11	SLV	1.77	-6951.74	868.24	15639.10	1427.22	13826.90
13	SLV	0.00	-14144.00	-2533.56	31082.90	1060.39	16392.80
13	SLV	1.77	-8020.26	-651.36	17980.90	1060.39	14237.40
15	SLV	0.00	-13064.50	-2547.59	28812.70	1065.70	16033.90
15	SLV	1.77	-6940.77	-655.98	15615.00	1065.70	13822.60
17	SLV	0.00	-15409.80	481.76	33723.40	199.36	16803.90
17	SLV	1.77	-9286.06	127.89	20733.60	199.36	14708.90
19	SLV	0.00	-15406.50	-1302.99	33716.50	548.51	16802.90
19	SLV	1.77	-9282.77	-329.38	20726.50	548.51	14707.70
21	SLV	0.00	-11811.50	434.99	26156.40	181.69	15607.00
21	SLV	1.77	-5687.76	112.50	12847.60	181.69	13325.00
23	SLV	0.00	-11808.20	-1349.75	26149.40	566.19	15605.90
23	SLV	1.77	-5684.47	-344.76	12840.30	566.19	13323.70
25	SLV	0.00	-14154.20	2547.59	31104.30	1065.70	16396.20
25	SLV	1.77	-8030.50	655.98	18003.30	1065.70	14241.30
27	SLV	0.00	-13074.80	2533.56	28834.30	1060.39	16037.40
27	SLV	1.77	-6951.01	651.36	15637.50	1060.39	13826.60
29	SLV	0.00	-14143.30	-3401.55	31081.30	1427.22	16392.60
29	SLV	1.77	-8019.52	-868.24	17979.30	1427.22	14237.10
31	SLV	0.00	-13063.80	-3415.58	28811.10	1432.52	16033.70
31	SLV	1.77	-6940.03	-872.86	15613.40	1432.52	13822.40

Verifiche deformazioni

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	2	SLD	0.01	0.02	96.03
0.00	3.55	8	SLD	0.01	0.02	98.20
0.00	3.55	14	SLD	0.00	0.01	142.12
0.00	3.55	20	SLD	0.01	0.02	95.42
0.00	3.55	26	SLD	0.00	0.01	140.91
0.00	3.55	32	SLD	0.01	0.02	130.88

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	4	SLD	0.01	0.02	97.28
0.00	3.55	10	SLD	0.01	0.02	128.60
0.00	3.55	16	SLD	0.00	0.01	143.73
0.00	3.55	22	SLD	0.01	0.02	98.24
0.00	3.55	28	SLD	0.00	0.01	141.36

Zi <m>	Zf <m>	CC	TCC	δ <cm>	δ/h	Sic.
0.00	3.55	6	SLD	0.01	0.02	96.26
0.00	3.55	12	SLD	0.01	0.02	128.22
0.00	3.55	18	SLD	0.01	0.02	96.95
0.00	3.55	24	SLD	0.01	0.02	97.31
0.00	3.55	30	SLD	0.01	0.02	128.93

Sintesi

Tipo di normativa: stati limite D.M. 18
Tipo di calcolo: analisi sismica statica

Dati generali della struttura

Relazione di calcolo

- Sito di costruzione: Unnamed Road, 72020 Erchie BR, Italia LON. 17.75300 LAT. 40.39930
Contenuto tra ID reticolo: 34808 35030 34807 35029

Pericolosità sismica di base

Simbologia

TCC=Tipo di combinazione di carico
 SLU = Stato limite ultimo
 SLU S = Stato limite ultimo (azione sismica)
 SLE R = Stato limite d'esercizio, combinazione rara
 SLE F = Stato limite d'esercizio, combinazione frequente
 SLE Q = Stato limite d'esercizio, combinazione quasi permanente
 SLD = Stato limite di danno
 SLV = Stato limite di salvaguardia della vita
 SLC = Stato limite di prevenzione del collasso
 SLO = Stato limite di operatività
 SLU I = Stato limite di resistenza al fuoco
 SND = Stato limite di salvaguardia della vita (non dissipativo)
 T_R =Periodo di ritorno <anni>
 Ag =Accelerazione orizzontale massima al sito
 Fo =Valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale
 FV =Valore massimo del fattore di amplificazione dello spettro in accelerazione verticale
 Tc*=Periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale <sec>
 S_s =Coefficiente di amplificazione stratigrafica
 C_c =Coefficiente funzione della categoria del suolo
 S =Coefficiente di amplificazione stratigrafica e topografica
 TC =Periodo corrispondente all'inizio del tratto dello spettro a velocità costante
 TB =Periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante
 TD =Periodo corrispondente all'inizio del tratto dello spettro a spostamento costante

TCC	T _R	Ag <g>	Fo	FV	Tc*	S _s	C _c	S	TC	TB	TD
SLD	201	0.0391	2.51	0.67	0.39	1.00	1.00	1.00	0.39	0.13	1.76
SLV	1898	0.0700	2.93	1.05	0.52	1.00	1.00	1.00	0.52	0.17	1.88

- Tipo di opera: Opera ordinaria
 - Vita nominale V_N: 100.00
 - Classe d'uso: Classe IV
 - Coefficiente d'uso CU: 2.00
 - Periodo di riferimento VR: 200.00

Dati di piano

Simbologia

Imp.=Numero dell'impalcato
 L_x =Dimensione del piano in dir. X
 L_y =Dimensione del piano in dir. Y
 E_x =Eccentricità in dir. X
 E_y =Eccentricità in dir. Y
 E_a =Eccentricità complessiva

Imp.	L _x <m>	L _y <m>	E _x <m>	E _y <m>	E _a <m>
1	10.30	4.60	0.52	0.23	0.56

Dati di progetto

- Categoria del suolo di fondazione: A
 - Tipologia strutturale: muratura ordinaria

Periodo T ₁	0.12931
Coeff. λ SLD	1.00
Coeff. λ SLV	1.00
Rapporto di sovrarresistenza (α _u /α ₁)	1.70
Valore di riferimento del fattore di comportamento (q ₀)	2.98
Fattore di comportamento dissipativo (q)	2.98
Fattore di comportamento non dissipativo (q _{ND})	1.50
Fattore di comportamento per SLD (q _D)	1.50

- Categoria topografica: T1 - Superficie pianeggiante, pendii e rilievi isolati con inclinazione media i<=15°
 - Coeff. amplificazione topografica S_T: 1.00
 - Accelerazione di picco del terreno AgS: 0.07 <g>
 - Applica semplificazioni per bassa sismicità: No
 - Quota di riferimento: -0.00 <m>
 - Quota max della struttura: 3.55 <m>
 - Altezza della struttura: 3.55 <m>
 - Numero piani edificio: 1
 - Coefficiente θ: 0.00

Relazione di calcolo

- Edificio regolare in altezza: Sì
- Edificio regolare in pianta: Sì
- Struttura dissipativa: Sì
- Classe di duttilità: Classe B
- Fattore di comportamento per sisma verticale (qv): 1.50
- Smorzamento spettro: 5.00%

Spettro SLD.TXT :

0.0000	0.3836
0.0500	0.4820
0.1000	0.5803
0.1309	0.6411
0.1500	0.6411
0.2000	0.6411
0.2500	0.6411
0.3000	0.6411
0.3500	0.6411
0.3927	0.6411
0.4000	0.6293
0.4500	0.5594
0.5000	0.5034
0.5500	0.4577
0.6000	0.4195
0.6500	0.3873
0.7000	0.3596
0.7500	0.3356
0.8000	0.3146
0.8500	0.2961
0.9000	0.2797
0.9500	0.2650
1.0000	0.2517
1.0500	0.2397
1.1000	0.2288
1.1500	0.2189
1.2000	0.2098
1.2500	0.2014
1.3000	0.1936
1.3500	0.1865
1.4000	0.1798
1.4500	0.1736
1.5000	0.1678
1.5500	0.1624
1.6000	0.1573
1.6500	0.1526
1.7000	0.1481
1.7500	0.1438
1.7564	0.1433
1.8000	0.1365
1.8500	0.1292
1.9000	0.1225
1.9500	0.1163
2.0000	0.1105
2.0500	0.1052
2.1000	0.1003
2.1500	0.0956
2.2000	0.0913
2.2500	0.0873
2.3000	0.0836
2.3500	0.0801
2.4000	0.0768
2.4500	0.0767
2.5000	0.0767
2.5500	0.0767
2.6000	0.0767
2.6500	0.0767
2.7000	0.0767
2.7500	0.0767
2.8000	0.0767
2.8500	0.0767
2.9000	0.0767
2.9500	0.0767
3.0000	0.0767
3.0500	0.0767
3.1000	0.0767
3.1500	0.0767
3.2000	0.0767
3.2500	0.0767
3.3000	0.0767
3.3500	0.0767
3.4000	0.0767
3.4500	0.0767

Relazione di calcolo

3.5000	0.0767
3.5500	0.0767
3.6000	0.0767
3.6500	0.0767
3.7000	0.0767
3.7500	0.0767
3.8000	0.0767
3.8500	0.0767
3.9000	0.0767
3.9500	0.0767
4.0000	0.0767

Spettro SLV.TXT :

0.0000	0.6867
0.0500	0.6835
0.1000	0.6803
0.1500	0.6771
0.1739	0.6756
0.2000	0.6756
0.2500	0.6756
0.3000	0.6756
0.3500	0.6756
0.4000	0.6756
0.4500	0.6756
0.5000	0.6756
0.5218	0.6756
0.5500	0.6409
0.6000	0.5875
0.6500	0.5423
0.7000	0.5036
0.7500	0.4700
0.8000	0.4406
0.8500	0.4147
0.9000	0.3917
0.9500	0.3711
1.0000	0.3525
1.0500	0.3357
1.1000	0.3205
1.1500	0.3065
1.2000	0.2938
1.2500	0.2820
1.3000	0.2712
1.3500	0.2611
1.4000	0.2518
1.4500	0.2431
1.5000	0.2350
1.5500	0.2274
1.6000	0.2203
1.6500	0.2136
1.7000	0.2074
1.7500	0.2014
1.8000	0.1958
1.8500	0.1905
1.8800	0.1875
1.9000	0.1836
1.9500	0.1743
2.0000	0.1657
2.0500	0.1577
2.1000	0.1503
2.1500	0.1434
2.2000	0.1373
2.2500	0.1373
2.3000	0.1373
2.3500	0.1373
2.4000	0.1373
2.4500	0.1373
2.5000	0.1373
2.5500	0.1373
2.6000	0.1373
2.6500	0.1373
2.7000	0.1373
2.7500	0.1373
2.8000	0.1373
2.8500	0.1373
2.9000	0.1373
2.9500	0.1373
3.0000	0.1373
3.0500	0.1373
3.1000	0.1373
3.1500	0.1373
3.2000	0.1373

Relazione di calcolo

3.2500	0.1373
3.3000	0.1373
3.3500	0.1373
3.4000	0.1373
3.4500	0.1373
3.5000	0.1373
3.5500	0.1373
3.6000	0.1373
3.6500	0.1373
3.7000	0.1373
3.7500	0.1373
3.8000	0.1373
3.8500	0.1373
3.9000	0.1373
3.9500	0.1373
4.0000	0.1373

Spettro SND.TXT :

0.0000	0.6867
0.0500	0.8745
0.1000	1.0623
0.1500	1.2500
0.1739	1.3399
0.2000	1.3399
0.2500	1.3399
0.3000	1.3399
0.3500	1.3399
0.4000	1.3399
0.4500	1.3399
0.5000	1.3399
0.5218	1.3399
0.5500	1.2712
0.6000	1.1653
0.6500	1.0756
0.7000	0.9988
0.7500	0.9322
0.8000	0.8739
0.8500	0.8225
0.9000	0.7768
0.9500	0.7359
1.0000	0.6992
1.0500	0.6659
1.1000	0.6356
1.1500	0.6080
1.2000	0.5826
1.2500	0.5593
1.3000	0.5378
1.3500	0.5179
1.4000	0.4994
1.4500	0.4822
1.5000	0.4661
1.5500	0.4511
1.6000	0.4370
1.6500	0.4237
1.7000	0.4113
1.7500	0.3995
1.8000	0.3884
1.8500	0.3779
1.8800	0.3719
1.9000	0.3641
1.9500	0.3457
2.0000	0.3286
2.0500	0.3128
2.1000	0.2981
2.1500	0.2844
2.2000	0.2716
2.2500	0.2596
2.3000	0.2485
2.3500	0.2380
2.4000	0.2282
2.4500	0.2190
2.5000	0.2103
2.5500	0.2021
2.6000	0.1944
2.6500	0.1872
2.7000	0.1803
2.7500	0.1738
2.8000	0.1677
2.8500	0.1618
2.9000	0.1563
2.9500	0.1510

Relazione di calcolo

3.0000 0.1460
 3.0500 0.1413
 3.1000 0.1373
 3.1500 0.1373
 3.2000 0.1373
 3.2500 0.1373
 3.3000 0.1373
 3.3500 0.1373
 3.4000 0.1373
 3.4500 0.1373
 3.5000 0.1373
 3.5500 0.1373
 3.6000 0.1373
 3.6500 0.1373
 3.7000 0.1373
 3.7500 0.1373
 3.8000 0.1373
 3.8500 0.1373
 3.9000 0.1373
 3.9500 0.1373
 4.0000 0.1373

Condizioni di carico elementari

Simbologia

CCE = Numero della condizione di carico elementare

Comm. = Commento

Tipo CCE = Tipo di CCE per calcolo agli stati limite

Sic. = Contributo alla sicurezza

F = a favore

S = a sfavore

A = ambigua

Var. = Tipo di variabilità

B = di base

I = indipendente

A = ambigua

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

Dir. = Direzione del vento

Tipo = Tipologia di pressione vento

M = Massimizzata

E = Esterna

I = Interna

Mx = Moltiplicatore della massa in dir. X

My = Moltiplicatore della massa in dir. Y

Mz = Moltiplicatore della massa in dir. Z

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

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

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

CCE	Comm.	Tipo CCE	Sic.	Var.	s	Dir. <grad>	Tipo	Mx	My	Mz	Jpx	Jpy	Jpz
1	peso proprio	1	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
2	strutturale solaio	1	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
3	permanente solaio	2	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
4	variabile solaio	19	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
5	neve	11	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00

Elenco baricentri e masse impalcati

Simbologia

Imp. = Numero dell'impalcato

X = Coordinata X

Y = Coordinata Y

Z = Coordinata Z

Mo = Massa orizzontale

Jpz = Massa rotazionale intorno all'asse Z

Imp.	X <m>	Y <m>	Z <m>	Mo <kg>	Jpz <kg*m²>
1	5.09	2.30	3.55	75964.00	1067930.00

Totali masse impalcati

Mo <kg>	Jpz <kg*m²>
75964.00	1067930.00

Materiali

Cemento armato

Relazione di calcolo

Elenco dei criteri di progetto e delle loro principali caratteristiche meccaniche utilizzate:

Solette/Platee: 1

Travi in c.a.: 1

Calcestruzzo

Tipo di calcestruzzo: C28/35

Rck calcestruzzo (Rck calcestruzzo) <daN/cm²>: 350.00

Resistenza caratteristica cilindrica a compressione del calcestruzzo (Fck) <daN/cm²>: 290.50

Resistenza caratteristica a trazione del calcestruzzo (Fctk) <daN/cm²>: 19.84

α_{cc} : 0.85

γ_c : 1.50

Resistenza di calcolo a compressione del calcestruzzo (Fcd) <daN/cm²>: 164.62

Resistenza di calcolo a trazione del calcestruzzo (Fctd) <daN/cm²>: 13.23

Acciaio

Tipo di acciaio: B450C

Tensione caratteristica di snervamento dell'acciaio (Fyk) <daN/cm²>: 4500.00

γ_s : 1.15

Resistenza di calcolo dell'acciaio (Fyd) <daN/cm²>: 3913.04

Muratura ordinaria

Elenco dei criteri di progetto e delle loro principali caratteristiche meccaniche utilizzate:

Murature: 4 Muratura in blocchi di calcestruzzo

Livello di conoscenza: LC2

Fattore di confidenza: 1.20

Resistenza a taglio: Fessurazione diagonale su tessitura irregolare

Resistenza media a compressione nulla (τ_0) <daN/cm²>: 1.25

Resistenza a compressione (f_k) <daN/cm²>: 65.00

Resistenza a compressione per forze orizzontali (f_{hk}) <daN/cm²>: 6.50

Modulo elastico (E) <daN/cm²>: 45500.00

Modulo elastico tangenziale (G) <daN/cm²>: 11375.00

Coeff. γ per verifiche per carichi verticali secondo D.M. 18 (γ): 2.00

Coeff. γ per verifiche per azioni sismiche secondo D.M. 18 (γ): 2.00

Prove in sito

Elenco colonne stratigrafiche

Simbologia

St.	=Strato
z	=Profondità della superficie superiore dello strato
Spess.	=Spessore
Unità geotecnica	=Unità geotecnica
Class.	=Classificazione
	Coes. = Coesivo
	Inc. = Incoerente
	Roc. = Roccia
	N. c. = Non classificato
γ	=Peso specifico del terreno naturale
γ_{sat}	=Peso specifico del terreno saturo
ϕ'	=Angolo di attrito efficace
c'	=Coesione efficace
c_u	=Coesione non drenata
E	=Modulo elastico normale
G	=Modulo elastico tangenziale
E_{ed}	=Modulo edometrico

Colonna stratigrafica numero 1 str_01

St.	z <m>	Spess. <cm>	Unità geotecnica	Class.	γ <daN/mc>	γ_{sat} <daN/mc>	ϕ' <grad>	c' <daN/mq>	c_u <daN/mq>	E <daN/mq>	G <daN/mq>	E_{ed} <daN/mq>
1	0.00	--	6 calcare	Roc.	2200.00	2200.00	35.00	3500.00		900000000.00	319150000.00	638300000.00

Le verifiche degli elementi di fondazione sono state effettuate utilizzando l'approccio 2 - Combinazione 1.

Coefficienti parziali per le azioni, per verifiche in condizioni statiche:

Permanenti strutturali, sicurezza a favore $\gamma_A = 1.00$;

Permanenti strutturali, sicurezza a sfavore $\gamma_A = 1.30$;

Permanenti non strutturali, sicurezza a favore $\gamma_A = 0.00$;

Permanenti non strutturali, sicurezza a sfavore $\gamma_A = 1.50$;

Variabili, sicurezza a favore $\gamma_A = 0.00$;

Variabili, sicurezza a sfavore $\gamma_A = 1.50$.

I coefficienti parziali per le azioni sono posti pari all'unità per le verifiche in condizioni sismiche.

Tali coefficienti sono comunque desumibili dalla tabella delle combinazioni delle CCE (Parametri di calcolo).

Relazione di calcolo

Coefficienti parziali per i parametri geotecnici:

Tangente dell'angolo di attrito $\gamma_M = 1.00$;
 Coesione efficace $\gamma_M = 1.00$;
 Coesione non drenata $\gamma_M = 1.00$;

Coefficienti parziali per la resistenza delle fondazioni superficiali:

Capacità portante $\gamma_R = 2.30$;

Scorrimento $\gamma_R = 1.10$;

Coefficienti parziali per la resistenza delle fondazioni profonde:

Per pali infissi:

Resistenza alla base $\gamma_R, b = 1.15$;

Resistenza laterale in compressione $\gamma_R, s = 1.15$;

Resistenza laterale in trazione $\gamma_R, t = 1.25$;

Per pali trivellati:

Resistenza alla base $\gamma_R, b = 1.35$;

Resistenza laterale in compressione $\gamma_R, s = 1.15$;

Resistenza laterale in trazione $\gamma_R, t = 1.25$;

Per pali ad elica continua:

Resistenza alla base $\gamma_R, b = 1.30$;

Resistenza laterale in compressione $\gamma_R, s = 1.15$;

Resistenza laterale in trazione $\gamma_R, t = 1.25$;

Fattore di correlazione per la determinazione della resistenza caratteristica desumibile dai criteri di progetto.

Carichi

Simbologia

Imp. = Numero dell'impalcato

Quota = Quota impalcato

Ts = Numero del tipo solaio

Comm. = Commento

Mq_{Tot} = Area solai

Qps = Carico permanente strutturale

CCE = Numero della condizione di carico elementare

Qpn = Carico permanente non strutturale

QA = Primo carico accidentale

QA2 = Secondo carico accidentale

QA3 = Terzo carico accidentale

Imp.	Quota <m>	Ts	Comm.	Mq _{Tot} <m²>	Qps <daN/m²>	CCE	Qpn <daN/m²>	CCE	QA <daN/m²>	CCE	QA2 <daN/m²>	CCE	QA3 <daN/m²>	CCE
1	3.55	1	SOLAI COPERTURA	47.38	325.00	2	200.00	3	50.00	4	50.00	5	--	--

Spostamenti massimi d'impalcato

Simbologia

Imp. = Numero dell'impalcato

TCC = Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

SLE F = Stato limite d'esercizio, combinazione frequente

SLE Q = Stato limite d'esercizio, combinazione quasi permanente

SLD = Stato limite di danno

SLV = Stato limite di salvaguardia della vita

SLC = Stato limite di prevenzione del collasso

SLO = Stato limite di operatività

SLU I = Stato limite di resistenza al fuoco

SND = Stato limite di salvaguardia della vita (non dissipativo)

Nodo = Numero del nodo

Sx = Spostamento in dir. X

CC = Numero della combinazione delle condizioni di carico elementari

Sy = Spostamento in dir. Y

Imp.	TCC	Nodo	Sx <cm>	CC	Nodo	Sy <cm>	CC
1	SLD	-98	0.00696	20	-102	0.00482	12
1	SLV	-98	0.02595	19	-102	0.01746	11

Minimo coefficiente di sicurezza

Simbologia

Elem. = Elemento

CC = Numero della combinazione delle condizioni di carico elementari

TCC = Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

Relazione di calcolo

SLE F = Stato limite d'esercizio, combinazione frequente
 SLE Q = Stato limite d'esercizio, combinazione quasi permanente
 SLD = Stato limite di danno
 SLV = Stato limite di salvaguardia della vita
 SLC = Stato limite di prevenzione del collasso
 SLO = Stato limite di operatività
 SLU I = Stato limite di resistenza al fuoco
 SND = Stato limite di salvaguardia della vita (non dissipativo)
 TV = Tipo di verifica
 PRFL = Flessione e pressoflessione
 TAG = Taglio o altre rotture fragili
 NOD = Nodi in c.a. e collegamenti in acciaio
 STAB = Stabilità
 CP = Capacità portante
 RNP = Resistenza nel piano
 RFP = Resistenza fuori piano
 CIN = Cinematismi
 CON = Connessioni
 Sic. = Sicurezza

Tabella elementi e minimo coefficiente di sicurezza

Elem.	CC	TCC	TV	Sic.
Travata n. 101	33	SLU	PRFL	9.31
Travata n. 101	33	SLU	TAG	12.91
Platea a quota 0	33	SLU	PRFL	14.85
Platea a quota 0	33	SLU	TAG	13.99
Parete in muratura ordinaria 108	19	SLV	RNP	2.69
Parete in muratura ordinaria 112	23	SLV	RFP	3.77
Maschio in muratura ordinaria 12	1	SLV	CIN	1.67

Minimo coefficiente di sicurezza:1.67