SOGGETTI COINVOLTI:

COMMITTENTE:
COMUNE DI EMPOLI
SETTORE LAVORI PUBBLICI E PATRIMONIO
SERVIZIO PROGETTAZIONE IMMOBILI

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PROGETTAZIONE ARCHITETTONICA:
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PROGETTAZIONE STRUTTURALE:
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CITTA METROPOLITANA DI FIRENZE

PROGETTO HOME 2030

"ECO-PARK" - RIGENERAZIONE URBANA FABBRICATO DISMESSO NEL CENTRO ABITATO DI PONTE A ELSA

PROGETTO FINANZIAMENTO CON I FONDI NEXT GENERATION EU
PNRR MISSIONE 5 INVESTIMENTO 2.3
PROGRAMMA INNOVATIVO DELLA QUALITÀ DELL'ABITARE
CUP: C74E21000040005

PROGETTO DEFINITIVO
(art. 23 comma 7 del D. Lgs. 50/2016 e s.m.i.)

ELABORATO:

RELAZIONE DI CALCOLO

LIV. PROG.	ELABORATO	DOCUMENTO	NUMERO	REVISIONE
D	S T	R D C	0 0	0

CARTELLA:	FILE NAME:	NOTE:	DATA: GIUGNO 2022	SCALA: 1:100

REV.	DESCRIZIONE		REDATTO	VERIFICATO	APPROVATO
5					
4					
3					
2					
1					
0	EMISSIONE				

RELAZIONE DI CALCOLO

1. DESCRIZIONE DEI MODELLI STRUTTURALI

1.1 CARATTERISTICHE GENERALI DELLE STRUTTURE

Destinazione d'uso:		locali aperti al pubblico
Tipo di Costruzione:		opera ordinaria
Vita Nominale assunta:		V_N = 50 anni
Classe d'Uso:		Classe II
Coefficiente d'Uso:		C_U = 1.00
Periodo di riferimento dell'azione sismica:		$V_R = V_N \times C_U$ = 50 anni
Coordinate geografiche:	N 43.394577°	E 10.902901°
Zona sismica:	a_g(SLV) = 0.124412g	Zona 3 – Fascia C

1.2 CARATTERISTICHE GENERALI DEI MODELLI STRUTTURALI

Le strutture dei due corpi di fabbrica sono entrambe intelaiate in calcestruzzo armato e composte da:

- *platea e muri*: modellati mediante elementi bidimensionali di tipo "shell" (basati sulla Teoria di Mindlin della piastra-guscio spessa);
- *pilastri e travi*: modellati mediante elementi "beam";
- *solai*: sono stati considerati tutti infinitamente rigidi nel loro piano;
- *nodi di fondazione*: sono tutti sullo stesso piano orizzontale, bloccano gli spostamenti orizzontali, la rotazione intorno all'asse perpendicolare al piano e offrono una rigidezza elastica alla traslazione verticale, il suolo di fondazione è stato considerato, secondo il Modello di Winkler, come un materiale omogeneo ed elastico il cui coefficiente di sottofondo statico è stato assunto nei calcoli pari a 1.20kg/cm^3;
- *nodi in elevazione*: permettono ogni tipo di traslazione e rotazione nello spazio;
- *vincoli*: tutti gli elementi sono incastrati tra loro.

Per la risoluzione del modello strutturale è stato utilizzato il metodo degli elementi finiti (FEM) che è una generalizzazione del metodo matriciale degli spostamenti.

1.3 CARICHI E CONDIZIONI DI CARICO ELEMENTARI

I carichi considerati nel calcolo sono i seguenti:

- *pesi propri degli elementi strutturali*:
  - calcestruzzo armato: 25.00 kN/m^3
  - solai predalles 5+20+5cm 4.00 kN/m^2
- *pesi propri degli elementi non strutturali*:
  - ambienti piano interrato: 2.00 kN/m^2
  - ambienti piano terreno: 2.50 kN/m^2
  - ambienti piano primo: 3.00 kN/m^2
  - tettoie: 1.00 kN/m^2
  - copertura corpi scala: 2.00 kN/m^2
  - tamponamenti esterni: 17.00 kN/m
  - tamponamenti esterni ridotti: 3.00 kN/m
  - parapetti piano primo: 5.50 kN/m
- *carichi variabili*:
  - ambienti piano interrato: 2.50 kN/m^2
    [autorimesse, Categoria F]
  - ambienti piano terreno e scale: 5.00 kN/m^2
    [ambienti suscettibili di affollamento, Categoria C]
  - ambienti piano primo: 3.00 kN/m^2
    [ambienti suscettibili di affollamento, Categoria C]
  - tettoie e coperture corpi scala: 0.50 kN/m^2
    [ambienti accessibili per sola manutenzione, Categoria H]

– carico della neve sulle coperture: 0.80 kN/m^2
per sito in Zona II, altezza 60m s.l.m., inclinazione delle falde sull'orizzontale 0°, Classe di Topografia normale, coeff. termico unitario.

Le condizioni di carico elementari adottate nel calcolo della struttura dei corpi laterali sono le seguenti:
CC1 – peso proprio di tutti gli elementi strutturali;
CC2 – peso proprio di tutti gli elementi non strutturali;
CC3 – carico variabile d'uso locali piano terreno e primo (categ. C);
CC4 – carico variabile d'uso locali piano interrato (categ. F);
CC5 – carico variabile per manutenzione sulle coperture (categ. H);
CC6 – carico variabile della neve sulle coperture.

Le condizioni di carico elementari adottate nel calcolo della struttura del corpo centrale sono le seguenti:
CC1 – peso proprio di tutti gli elementi strutturali;
CC2 – peso proprio di tutti gli elementi non strutturali;
CC3 – carico variabile d'uso locali piano terreno e primo (categ. C);
CC4 – carico variabile d'uso locali piano interrato (categ. F);
CC5 – carico variabile della neve sulle coperture.

1.4 CARATTERISTICHE DELLE STRUTTURE E VERIFICHE CONDOTTE

Le strutture sono state verificate in Classe di Duttilità Media (CDB).

La struttura del corpo di fabbrica laterale è stata considerata nei calcoli come *regolare in pianta* e *irregolare in altezza*.
Per la determinazione del fattore di struttura si è fatto riferimento alla Tab. 7.3.II del D.M.17/01/2018; è stato adottato un valore del fattore di struttura q pari a: $q = q_0 \times K_R = 3 \times 1.30 \times 0.8 = 3.12$
con $\alpha_u/\alpha_1 = 1.30$ costruzioni in c.a. a telaio a più piani e più campate.

La struttura del corpo di fabbrica centrale è stata considerata nei calcoli come *regolare in pianta* e *regolare in altezza*.
Per la determinazione del fattore di struttura si è fatto riferimento alla Tab. 7.3.II del D.M.17/01/2018; è stato adottato un valore del fattore di struttura q pari a: $q = q_0 \times K_R = 3 \times 1.30 \times 1 = 3.90$
con $\alpha_u/\alpha_1 = 1.30$ costruzioni in c.a. a telaio a più piani e più campate.

Nella modellazione sismica il terreno di fondazione è stato ipotizzato di Categoria C, mentre per le condizioni topografiche è stata ipotizzata una Categoria Topografica T1.

Le strutture sono state verificate per i seguenti stati limite:

in condizioni statiche	allo SLU;
	allo SLE in comb. rara (SLER), frequente (SLEF) e quasi permanente (SLEQ);
in condizioni sismiche:	allo SLU di Salvaguardia della Vita (SLV);
	allo SLE di Danno (SLD);

Mediante i risultati di tali calcoli sono state poi valutate: la resistenza, la deformazione e la fessurazione degli elementi strutturali, gli spostamenti relativi massimi (allo SLD) dei nodi della struttura.
Il sottosuolo è stato schematizzato secondo il Modello di Winkler: i vincoli della fondazione sono assimilabili a delle molle verticali caratterizzate da una costante elastica pari al coefficiente di sottofondo del terreno. Per lo studio della struttura in condizioni sismiche è stata condotta un'analisi "dinamica lineare"; tale metodo è stato ritenuto idoneo per il caso in oggetto per determinare gli effetti dell'azione sismica sia per strutture dissipative che non. Le verifiche di resistenza sono state condotte utilizzando il Metodo degli Stati Limite. Ai fini del calcolo della resistenza degli elementi strutturali, è stato adottato: per il calcestruzzo un modello del diagramma tensioni-deformazioni del tipo parabola-rettangolo, mentre per l'acciaio un modello del diagramma del tipo elastico-perfettamente plastico indefinito; in particolare, sulla base di letteratura consolidata (cfr. *Cemento armato – Calcolo agli stati limite* di *G. Toniolo*), la deformazione ultima dell'acciaio è stata assunta pari a 1%.

1.5 CARATTERISTICHE DEL CODICE DI CALCOLO E DEL SOFTWARE

Il software utilizzato per la modellazione strutturale è *Modest® vers. 8.26*, prodotto da *Tecnisoft s.a.s.*
Il software utilizzato per la risoluzione del problema strutturale è *Xfinest® vers. 2021*, prodotto da *Ce.A.S* e distribuito da *Harpaceas.*
Dall'esame dei manuali teorici, da casi di prova risolti, nonché dall'espertienza consolidata su numerose applicazioni pratiche, si ritiene che i suddetti software siano idonei per lo studio della struttura in oggetto.

2 RISULTATI DEL CALCOLO DELLA STRUTTURA - **CORPO LATERALE**

LATERALE_03

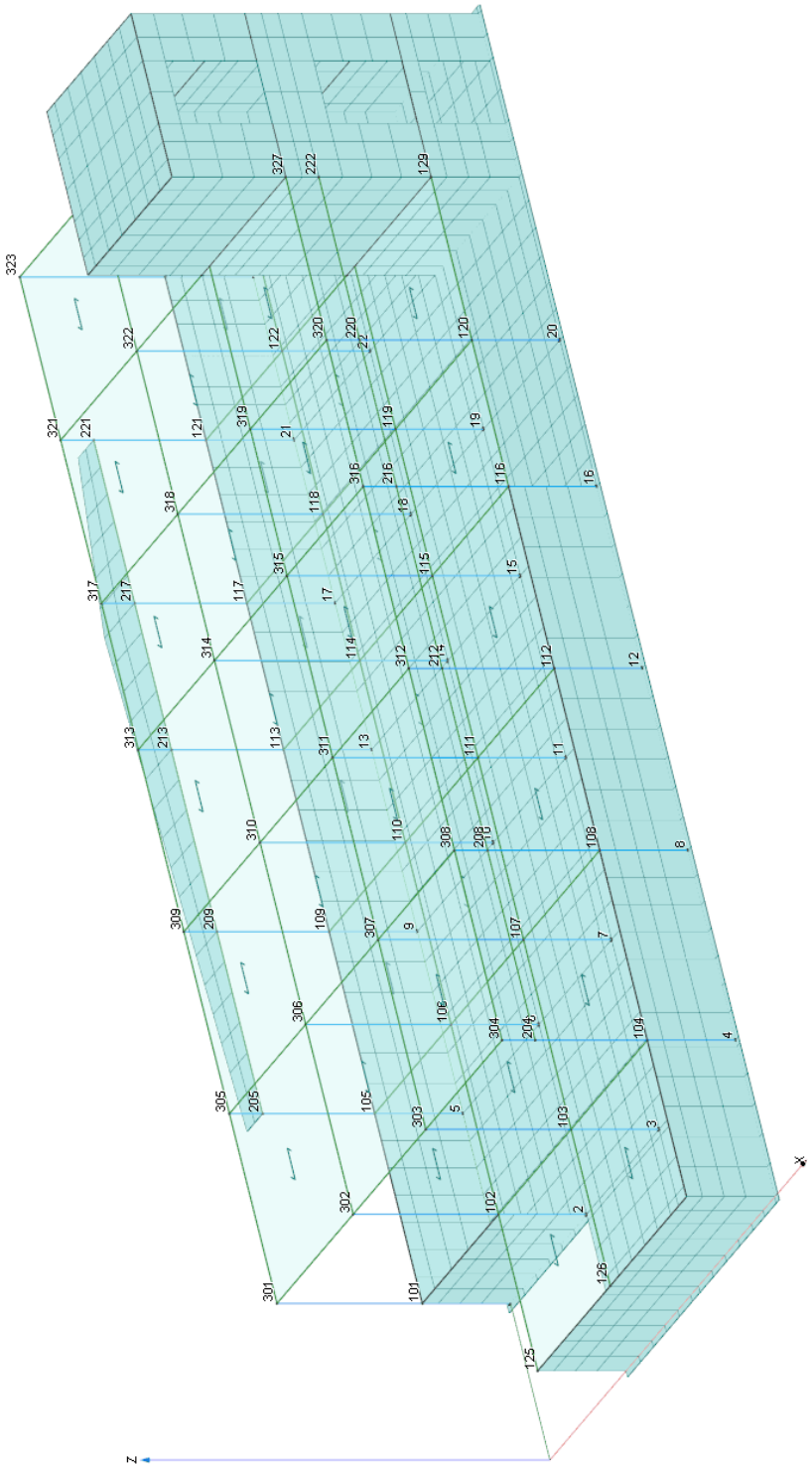

Figura 1: nodi

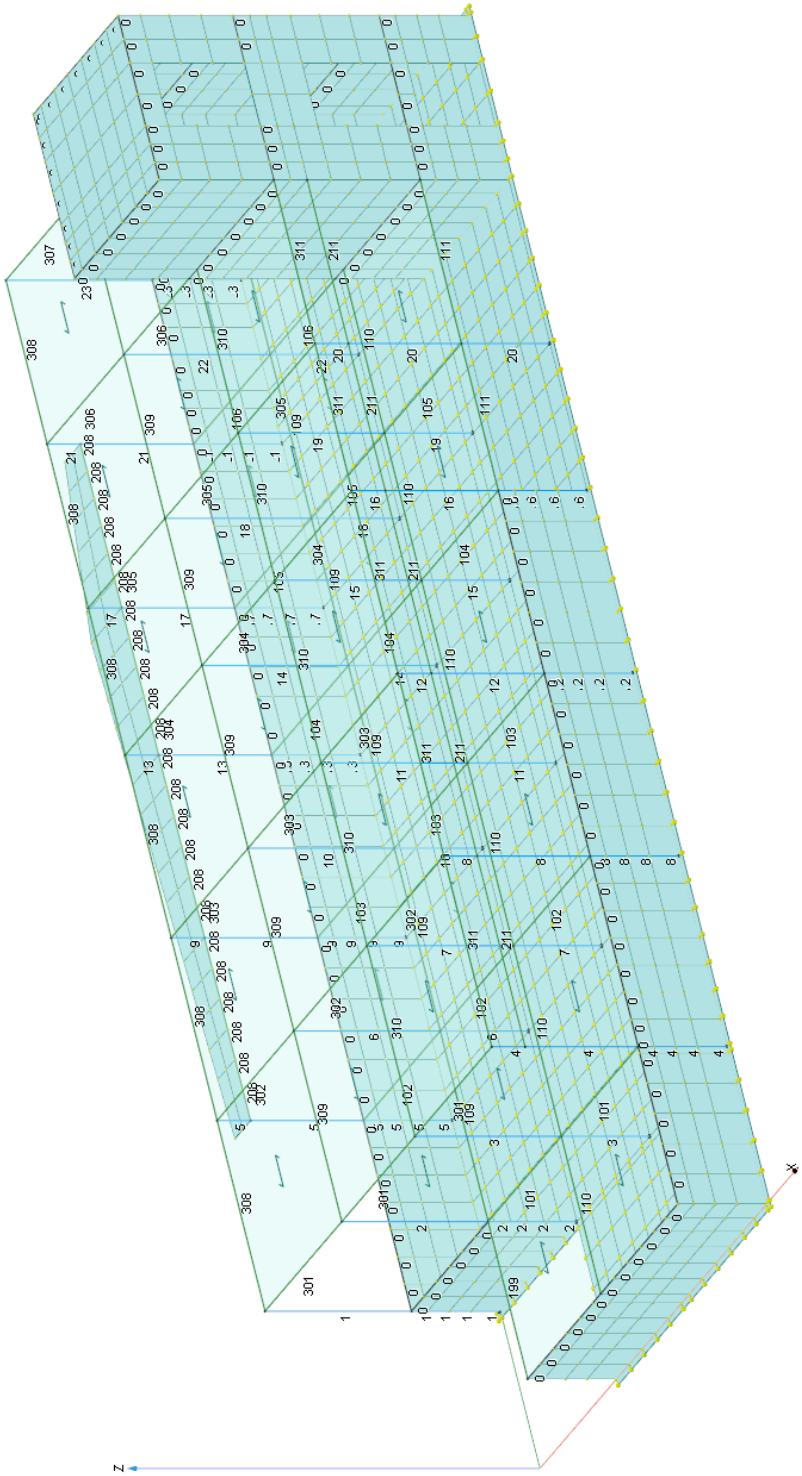

Figura 2: aste

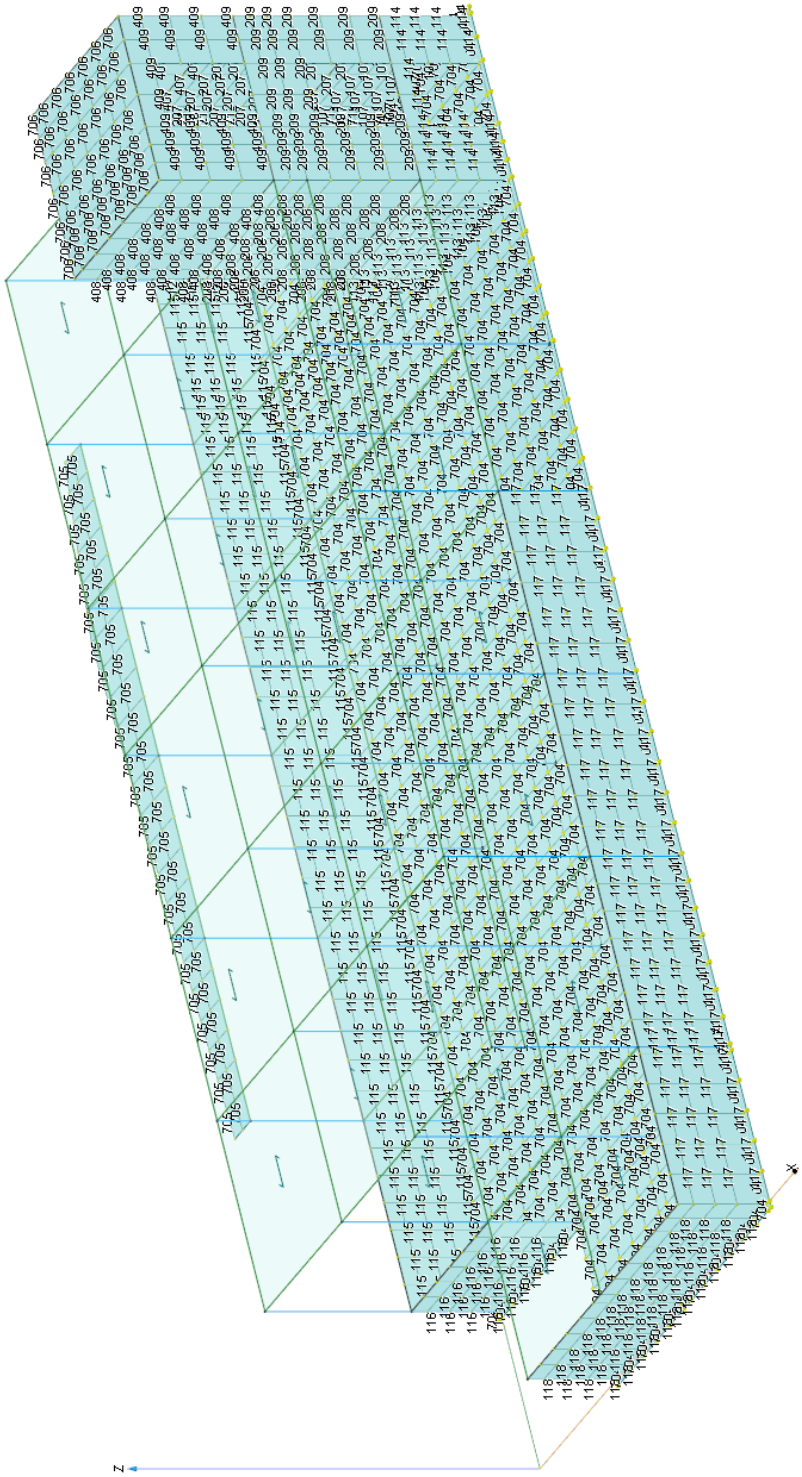

Figura 3: platea e muri

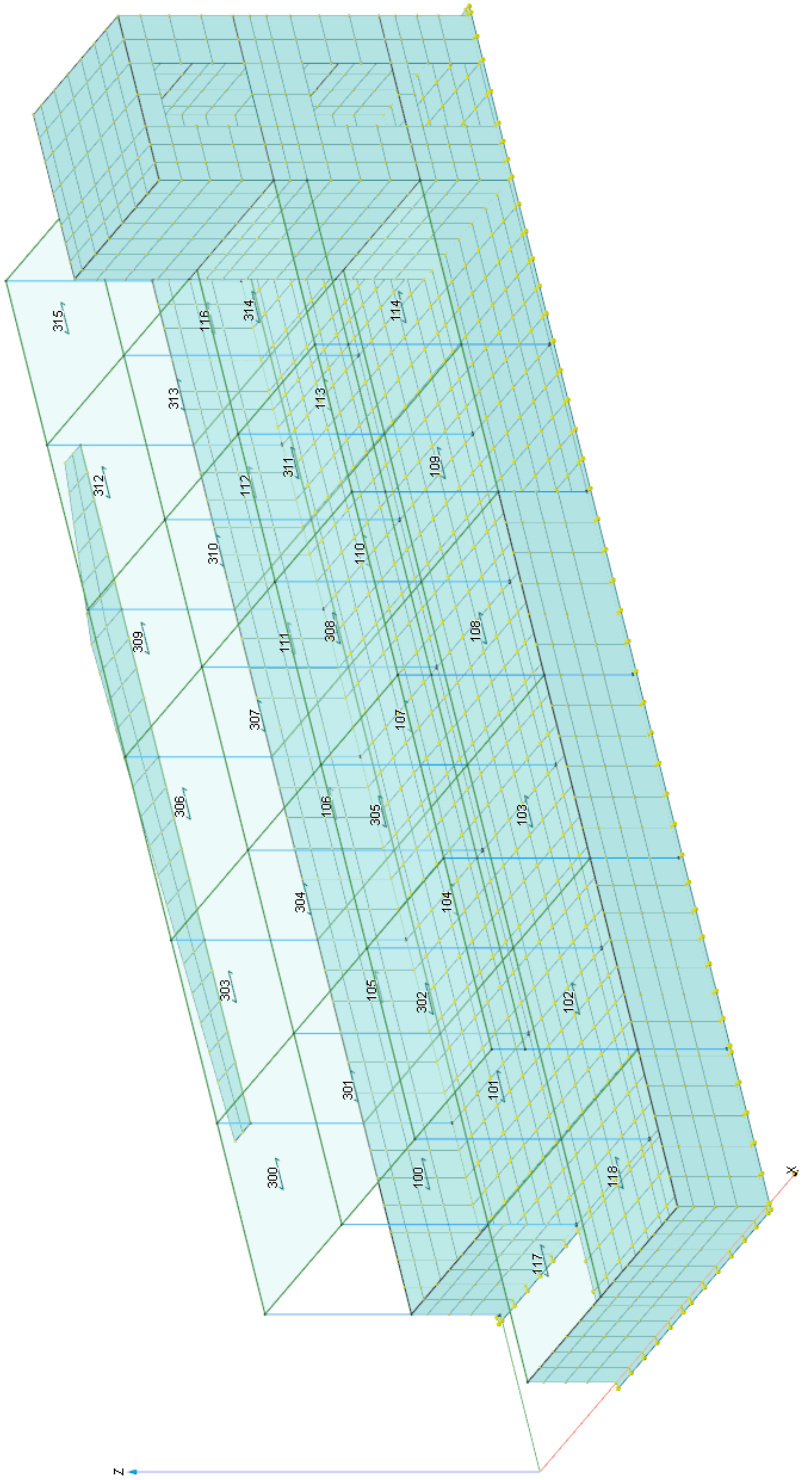

Figura 4: solai

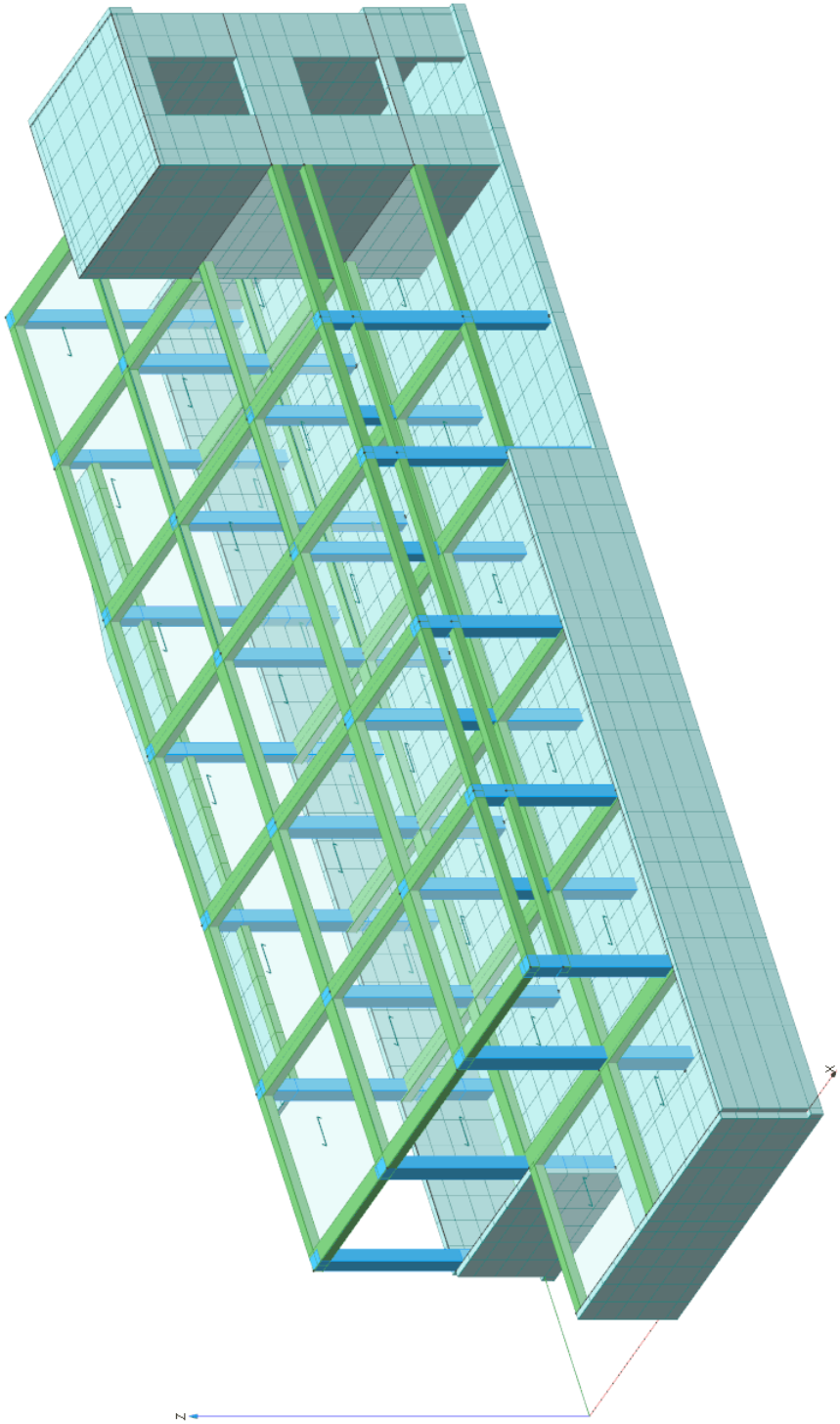

Figura 5: Modello 3D

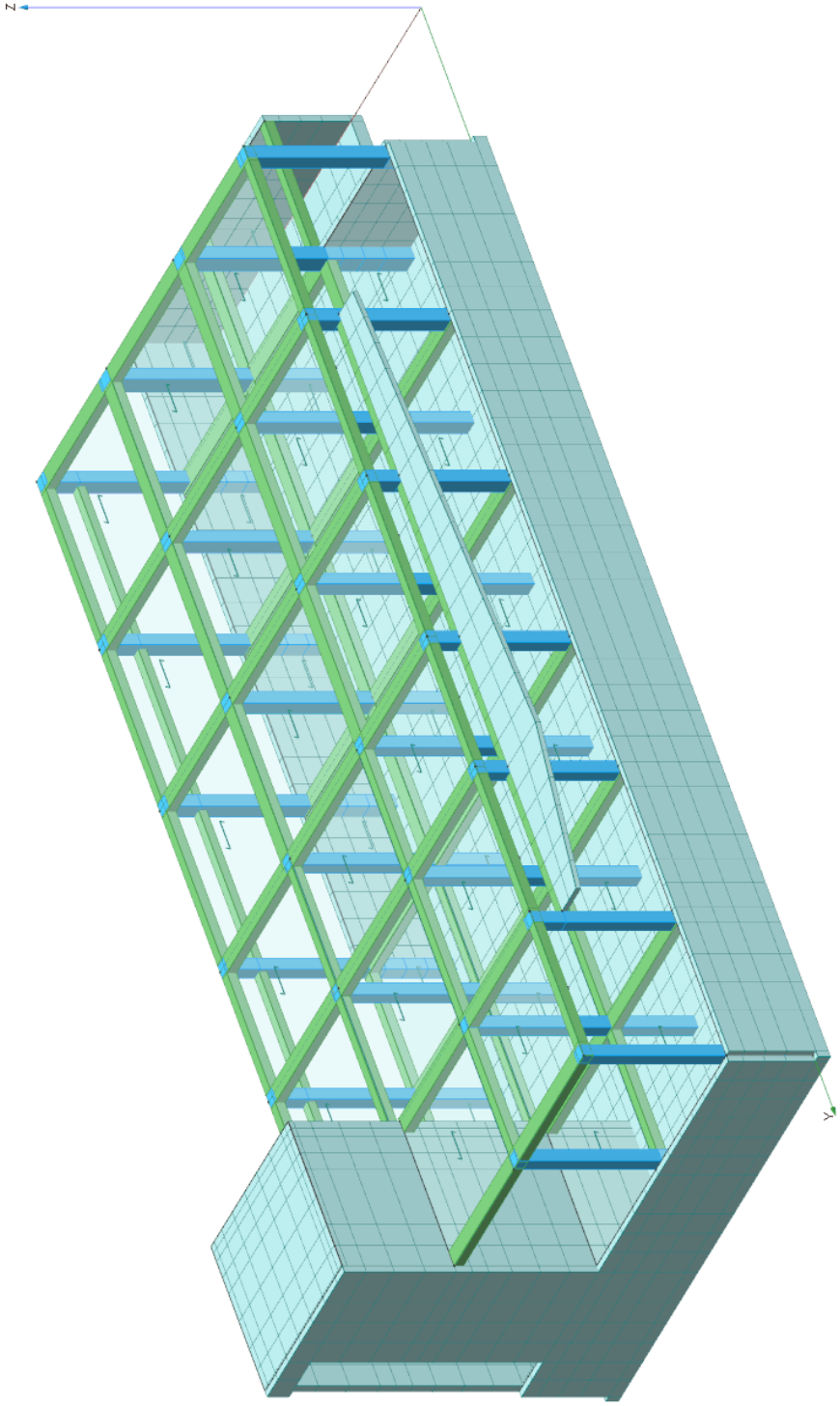

Figura 6: Modello 3D

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.

Unità di misura

Le unità di misura adottate sono le seguenti:
- lunghezze : m
- forze : daN
- masse : kg
- temperature : gradi centigradi
- angoli : gradi sessadecimali o radianti

Geometria

Elenco vincoli nodi

Simbologia

Comm. = Commento
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
Ly = Lunghezza (dir. Y locale)
Lz = Larghezza (dir. Z locale)
RL = Rotazione libera
Rx = Rotazione intorno all'asse X (L=libera, B=bloccata, E=elastica)
Ry = Rotazione intorno all'asse Y (L=libera, B=bloccata, E=elastica)
Rz = Rotazione intorno all'asse Z (L=libera, B=bloccata, E=elastica)
Sx = Spostamento in dir. X (L=libero, B=bloccato, E=elastico)
Sy = Spostamento in dir. Y (L=libero, B=bloccato, E=elastico)
Sz = Spostamento in dir. Z (L=libero, B=bloccato, E=elastico)
Vn = Numero del vincolo nodo

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

Elenco nodi

Simbologia

Imp. = Numero dell'impalcato
Nodo = Numero del nodo
Vn = Numero del vincolo nodo

X = Coordinata X del nodo
Y = Coordinata Y del nodo
Z = Coordinata Z del nodo

Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn	Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn	Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn
-1726	15.50	37.71	11.00	4	1	-1725	14.70	37.71	11.00	4	1	-1724	13.90	37.71	11.00	4	1
-1723	12.99	37.71	11.00	4	1	-1722	12.07	37.71	11.00	4	1	-1721	11.16	37.71	11.00	4	1
-1720	10.25	37.71	11.00	4	1	-1719	9.72	37.71	11.00	4	1	-1718	15.50	36.96	11.00	4	1
-1717	14.70	36.96	11.00	4	1	-1716	13.90	36.96	11.00	4	1	-1715	12.99	36.96	11.00	4	1
-1714	12.07	36.96	11.00	4	1	-1713	11.16	36.96	11.00	4	1	-1712	10.25	36.96	11.00	4	1
-1711	9.72	36.96	11.00	4	1	-1710	15.50	36.21	11.00	4	1	-1709	14.70	36.21	11.00	4	1
-1708	13.90	36.21	11.00	4	1	-1707	12.99	36.21	11.00	4	1	-1706	12.07	36.21	11.00	4	1
-1705	11.16	36.21	11.00	4	1	-1704	10.25	36.21	11.00	4	1	-1703	9.72	36.21	11.00	4	1
-1702	15.50	35.21	11.00	4	1	-1701	14.70	35.21	11.00	4	1	-1700	13.90	35.21	11.00	4	1
-1699	12.99	35.21	11.00	4	1	-1698	12.07	35.21	11.00	4	1	-1697	11.16	35.21	11.00	4	1
-1696	10.25	35.21	11.00	4	1	-1695	9.72	35.21	11.00	4	1	-1694	15.50	34.21	11.00	4	1
-1693	14.70	34.21	11.00	4	1	-1692	13.90	34.21	11.00	4	1	-1691	12.99	34.21	11.00	4	1
-1690	12.07	34.21	11.00	4	1	-1689	11.16	34.21	11.00	4	1	-1688	10.25	34.21	11.00	4	1
-1687	9.72	34.21	11.00	4	1	-1686	15.50	33.63	11.00	4	1	-1685	14.70	33.63	11.00	4	1
-1684	13.90	33.63	11.00	4	1	-1683	12.99	33.63	11.00	4	1	-1682	12.07	33.63	11.00	4	1
-1681	11.16	33.63	11.00	4	1	-1680	10.25	33.63	11.00	4	1	-1679	9.72	33.63	11.00	4	1
-1678	15.50	33.06	11.00	4	1	-1677	14.70	33.06	11.00	4	1	-1676	13.90	33.06	11.00	4	1
-1675	12.99	33.06	11.00	4	1	-1674	12.07	33.06	11.00	4	1	-1673	11.16	33.06	11.00	4	1
-1672	10.25	33.06	11.00	4	1	-1671	9.72	33.06	11.00	4	1	-1670	15.50	32.51	11.00	4	1
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-1663	9.72	32.51	11.00	4	1	-1662	15.50	37.71	10.30	0	1	-1661	14.70	37.71	10.30	0	1
-1660	13.90	37.71	10.30	0	1	-1659	12.99	37.71	10.30	0	1	-1658	12.07	37.71	10.30	0	1
-1657	11.16	37.71	10.30	0	1	-1656	10.25	37.71	10.30	0	1	-1655	9.72	37.71	10.30	0	1
-1654	15.50	36.96	10.30	0	1	-1653	9.72	36.96	10.30	0	1	-1652	15.50	36.21	10.30	0	1
-1651	9.72	36.21	10.30	0	1	-1650	15.50	35.21	10.30	0	1	-1649	9.72	35.21	10.30	0	1
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-1645	9.72	33.63	10.30	0	1	-1644	15.50	33.06	10.30	0	1	-1643	9.72	33.06	10.30	0	1
-1642	15.50	32.51	10.30	0	1	-1641	14.70	32.51	10.30	0	1	-1640	13.90	32.51	10.30	0	1
-1639	12.99	32.51	10.30	0	1	-1638	12.07	32.51	10.30	0	1	-1637	11.16	32.51	10.30	0	1
-1636	10.25	32.51	10.30	0	1	-1635	9.72	32.51	10.30	0	1	-1634	15.50	37.71	9.40	0	1
-1633	13.90	37.71	9.40	0	1	-1632	12.99	37.71	9.40	0	1	-1631	12.07	37.71	9.40	0	1
-1630	11.16	37.71	9.40	0	1	-1629	10.25	37.71	9.40	0	1	-1628	9.72	37.71	9.40	0	1
-1627	15.50	36.96	9.40	0	1	-1626	9.72	36.96	9.40	0	1	-1625	15.50	36.21	9.40	0	1
-1624	9.72	36.21	9.40	0	1	-1623	9.72	35.21	9.40	0	1	-1622	15.50	34.21	9.40	0	1
-1621	9.72	34.21	9.40	0	1	-1620	15.50	33.63	9.40	0	1	-1619	9.72	33.63	9.40	0	1
-1618	15.50	33.06	9.40	0	1	-1617	9.72	33.06	9.40	0	1	-1616	15.50	32.51	9.40	0	1
-1615	14.70	32.51	9.40	0	1	-1614	13.90	32.51	9.40	0	1	-1613	12.99	32.51	9.40	0	1
-1612	12.07	32.51	9.40	0	1	-1611	11.16	32.51	9.40	0	1	-1610	10.25	32.51	9.40	0	1
-1609	9.72	32.51	9.40	0	1	-1608	15.50	37.71	8.40	0	1	-1607	13.90	37.71	8.40	0	1
-1606	12.99	37.71	8.40	0	1	-1605	12.07	37.71	8.40	0	1	-1604	11.16	37.71	8.40	0	1
-1603	10.25	37.71	8.40	0	1	-1602	9.72	37.71	8.40	0	1	-1601	15.50	36.96	8.40	0	1
-1600	9.72	36.96	8.40	0	1	-1599	15.50	36.21	8.40	0	1	-1598	9.72	36.21	8.40	0	1
-1597	9.72	35.21	8.40	0	1	-1596	15.50	34.21	8.40	0	1	-1595	9.72	34.21	8.40	0	1
-1594	15.50	33.63	8.40	0	1	-1593	9.72	33.63	8.40	0	1	-1592	15.50	33.06	8.40	0	1
-1591	9.72	33.06	8.40	0	1	-1590	15.50	32.51	8.40	0	1	-1589	14.70	32.51	8.40	0	1
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-1585	11.16	32.51	8.40	0	1	-1584	10.25	32.51	8.40	0	1	-1583	9.72	32.51	8.40	0	1
-1582	15.50	37.71	7.40	3	1	-1581	13.90	37.71	7.40	3	1	-1580	12.99	37.71	7.40	3	1
-1579	12.07	37.71	7.40	3	1	-1578	11.16	37.71	7.40	3	1	-1577	10.25	37.71	7.40	3	1
-1576	15.50	36.96	7.40	3	1	-1575	9.72	36.96	7.40	3	1	-1574	15.50	36.21	7.40	3	1
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-1525	15.50	36.96	6.35	2	1	-1524	9.72	36.96	6.35	2	1	-1523	15.50	36.21	6.35	2	1
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-1495	0.00	29.04	6.35	2	1	-1494	-0.86	29.04	6.35	0	1	-1493	-1.72	29.04	6.35	0	1
-1492	0.00	28.18	6.35	2	1	-1491	-0.94	28.18	6.35	0	1	-1490	-1.88	28.18	6.35	0	1
-1489	-1.02	27.31	6.35	0	1	-1488	-2.05	27.31	6.35	0	1	-1487	0.00	26.38	6.35	2	1
-1486	-1.00	26.38	6.35	0	1	-1485	-1.99	26.38	6.35	0	1	-1484	0.00	25.44	6.35	2	1
-1483	-0.97	25.44	6.35	0	1	-1482	-1.94	25.44	6.35	0	1	-1481	0.00	24.51	6.35	2	1
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-1477	-0.91	23.57	6.35	0	1	-1476	-1.82	23.57	6.35	0	1	-1475	-0.88	22.64	6.35	0	1
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-1213	0.00	32.51	2.30	0	1	-1212	0.00	31.64	2.30	0	1	-1211	0.00	30.78	2.30	0	1
-1210	0.00	29.91	2.30	0	1	-1209	0.00	29.04	2.30	0	1	-1208	0.00	28.18	2.30	0	1
-1207	0.00	27.31	2.30	0	1	-1206	0.00	26.38	2.30	0	1	-1205	0.00	25.44	2.30	0	1
-1204	0.00	24.51	2.30	0	1	-1203	0.00	23.57	2.30	0	1	-1202	15.50	22.64	2.30	0	1
-1201	0.00	22.64	2.30	0	1	-1200	15.50	21.67	2.30	0	1	-1199	0.00	21.67	2.30	0	1
-1198	15.50	20.71	2.30	0	1	-1197	0.00	20.71	2.30	0	1	-1196	15.50	19.74	2.30	0	1
-1195	0.00	19.74	2.30	0	1	-1194	15.50	18.77	2.30	0	1	-1193	0.00	18.77	2.30	0	1
-1192	15.50	17.81	2.30	0	1	-1191	0.00	17.81	2.30	0	1	-1190	15.50	16.84	2.30	0	1
-1189	0.00	16.84	2.30	0	1	-1188	15.50	15.87	2.30	0	1	-1187	0.00	15.87	2.30	0	1
-1186	15.50	14.91	2.30	0	1	-1185	0.00	14.91	2.30	0	1	-1184	15.50	13.94	2.30	0	1
-1183	0.00	13.94	2.30	0	1	-1182	15.50	12.97	2.30	0	1	-1181	0.00	12.97	2.30	0	1
-1180	15.50	12.01	2.30	0	1	-1179	0.00	12.01	2.30	0	1	-1178	15.50	11.04	2.30	0	1
-1177	0.00	11.04	2.30	0	1	-1176	15.50	10.18	2.30	0	1	-1175	0.00	10.18	2.30	0	1
-1174	15.50	9.31	2.30	0	1	-1173	0.00	9.31	2.30	0	1	-1172	15.50	8.45	2.30	0	1
-1171	0.00	8.45	2.30	0	1	-1170	15.50	7.58	2.30	0	1	-1169	0.00	7.58	2.30	0	1
-1168	15.50	6.72	2.30	0	1	-1167	0.00	6.72	2.30	0	1	-1166	15.50	5.85	2.30	0	1
-1165	0.00	5.85	2.30	0	1	-1164	15.50	4.99	2.30	0	1	-1163	5.25	4.99	2.30	0	1
-1162	4.38	4.99	2.30	0	1	-1161	3.50	4.99	2.30	0	1	-1160	2.62	4.99	2.30	0	1
-1159	1.75	4.99	2.30	0	1	-1158	0.88	4.99	2.30	0	1	-1157	0.00	4.99	2.30	0	1
-1156	15.50	4.79	2.30	0	1	-1155	15.50	3.83	2.30	0	1	-1154	15.50	2.87	2.30	0	1
-1153	15.50	1.92	2.30	0	1	-1152	15.50	0.96	2.30	0	1	-1151	15.50	0.00	2.30	0	1
-1150	14.70	0.00	2.30	0	1	-1149	13.90	0.00	2.30	0	1	-1148	12.99	0.00	2.30	0	1
-1147	12.07	0.00	2.30	0	1	-1146	11.16	0.00	2.30	0	1	-1145	10.25	0.00	2.30	0	1
-1144	9.72	0.00	2.30	0	1	-1143	8.83	0.00	2.30	0	1	-1142	7.93	0.00	2.30	0	1
-1141	7.04	0.00	2.30	0	1	-1140	6.14	0.00	2.30	0	1	-1139	5.25	0.00	2.30	0	1
-1138	15.50	37.71	1.62	0	1	-1137	14.70	37.71	1.62	0	1	-1136	13.90	37.71	1.62	0	1
-1135	12.99	37.71	1.62	0	1	-1134	12.07	37.71	1.62	0	1	-1133	11.16	37.71	1.62	0	1
-1132	10.25	37.71	1.62	0	1	-1131	9.72	37.71	1.62	0	1	-1130	8.83	37.71	1.62	0	1
-1129	7.93	37.71	1.62	0	1	-1128	7.04	37.71	1.62	0	1	-1127	6.14	37.71	1.62	0	1

-1126	5.25	37.71	1.62	0	1	-1125	4.38	37.71	1.62	0	1	-1124	3.50	37.71	1.62	0	1
-1123	2.62	37.71	1.62	0	1	-1122	1.75	37.71	1.62	0	1	-1121	0.88	37.71	1.62	0	1
-1120	0.00	37.71	1.62	0	1	-1119	15.50	36.96	1.62	0	1	-1118	9.72	36.96	1.62	0	1
-1117	0.00	36.96	1.62	0	1	-1116	15.50	36.21	1.62	0	1	-1115	9.72	36.21	1.62	0	1
-1114	0.00	36.21	1.62	0	1	-1113	9.72	35.21	1.62	0	1	-1112	0.00	35.21	1.62	0	1
-1111	15.50	34.21	1.62	0	1	-1110	9.72	34.21	1.62	0	1	-1109	0.00	34.21	1.62	0	1
-1108	15.50	33.63	1.62	0	1	-1107	9.72	33.63	1.62	0	1	-1106	0.00	33.63	1.62	0	1
-1105	15.50	33.06	1.62	0	1	-1104	9.72	33.06	1.62	0	1	-1103	0.00	33.06	1.62	0	1
-1102	15.50	32.51	1.62	0	1	-1101	14.70	32.51	1.62	0	1	-1100	13.90	32.51	1.62	0	1
-1099	12.99	32.51	1.62	0	1	-1098	12.07	32.51	1.62	0	1	-1097	11.16	32.51	1.62	0	1
-1096	10.25	32.51	1.62	0	1	-1095	9.72	32.51	1.62	0	1	-1094	0.00	32.51	1.62	0	1
-1093	0.00	31.64	1.62	0	1	-1092	0.00	30.78	1.62	0	1	-1091	0.00	29.91	1.62	0	1
-1090	0.00	29.04	1.62	0	1	-1089	0.00	28.18	1.62	0	1	-1088	0.00	27.31	1.62	0	1
-1087	0.00	26.38	1.62	0	1	-1086	0.00	25.44	1.62	0	1	-1085	0.00	24.51	1.62	0	1
-1084	0.00	23.57	1.62	0	1	-1083	15.50	22.64	1.62	0	1	-1082	0.00	22.64	1.62	0	1
-1081	15.50	21.67	1.62	0	1	-1080	0.00	21.67	1.62	0	1	-1079	15.50	20.71	1.62	0	1
-1078	0.00	20.71	1.62	0	1	-1077	15.50	19.74	1.62	0	1	-1076	0.00	19.74	1.62	0	1
-1075	15.50	18.77	1.62	0	1	-1074	0.00	18.77	1.62	0	1	-1073	15.50	17.81	1.62	0	1
-1072	0.00	17.81	1.62	0	1	-1071	15.50	16.84	1.62	0	1	-1070	0.00	16.84	1.62	0	1
-1069	15.50	15.87	1.62	0	1	-1068	0.00	15.87	1.62	0	1	-1067	15.50	14.91	1.62	0	1
-1066	0.00	14.91	1.62	0	1	-1065	15.50	13.94	1.62	0	1	-1064	0.00	13.94	1.62	0	1
-1063	15.50	12.97	1.62	0	1	-1062	0.00	12.97	1.62	0	1	-1061	15.50	12.01	1.62	0	1
-1060	0.00	12.01	1.62	0	1	-1059	15.50	11.04	1.62	0	1	-1058	0.00	11.04	1.62	0	1
-1057	15.50	10.18	1.62	0	1	-1056	0.00	10.18	1.62	0	1	-1055	15.50	9.31	1.62	0	1
-1054	0.00	9.31	1.62	0	1	-1053	15.50	8.45	1.62	0	1	-1052	0.00	8.45	1.62	0	1
-1051	15.50	7.58	1.62	0	1	-1050	0.00	7.58	1.62	0	1	-1049	15.50	6.72	1.62	0	1
-1048	0.00	6.72	1.62	0	1	-1047	15.50	5.85	1.62	0	1	-1046	0.00	5.85	1.62	0	1
-1045	15.50	4.99	1.62	0	1	-1044	5.25	4.99	1.62	0	1	-1043	4.38	4.99	1.62	0	1
-1042	3.50	4.99	1.62	0	1	-1041	2.62	4.99	1.62	0	1	-1040	1.75	4.99	1.62	0	1
-1039	0.88	4.99	1.62	0	1	-1038	0.00	4.99	1.62	0	1	-1037	15.50	4.79	1.62	0	1
-1036	15.50	3.83	1.62	0	1	-1035	15.50	2.87	1.62	0	1	-1034	15.50	1.92	1.62	0	1
-1033	15.50	0.96	1.62	0	1	-1032	15.50	0.00	1.62	0	1	-1031	14.70	0.00	1.62	0	1
-1030	13.90	0.00	1.62	0	1	-1029	12.99	0.00	1.62	0	1	-1028	12.07	0.00	1.62	0	1
-1027	11.16	0.00	1.62	0	1	-1026	10.25	0.00	1.62	0	1	-1025	9.72	0.00	1.62	0	1
-1024	8.83	0.00	1.62	0	1	-1023	7.93	0.00	1.62	0	1	-1022	7.04	0.00	1.62	0	1
-1021	6.14	0.00	1.62	0	1	-1020	5.25	0.00	1.62	0	1	-1019	15.50	37.71	0.93	0	1
-1018	14.70	37.71	0.93	0	1	-1017	13.90	37.71	0.93	0	1	-1016	12.99	37.71	0.93	0	1
-1015	12.07	37.71	0.93	0	1	-1014	11.16	37.71	0.93	0	1	-1013	10.25	37.71	0.93	0	1
-1012	9.72	37.71	0.93	0	1	-1011	8.83	37.71	0.93	0	1	-1010	7.93	37.71	0.93	0	1
-1009	7.04	37.71	0.93	0	1	-1008	6.14	37.71	0.93	0	1	-1007	5.25	37.71	0.93	0	1
-1006	4.38	37.71	0.93	0	1	-1005	3.50	37.71	0.93	0	1	-1004	2.62	37.71	0.93	0	1
-1003	1.75	37.71	0.93	0	1	-1002	0.88	37.71	0.93	0	1	-1001	0.00	37.71	0.93	0	1
-1000	15.50	36.96	0.93	0	1	-999	9.72	36.96	0.93	0	1	-998	0.00	36.96	0.93	0	1
-997	15.50	36.21	0.93	0	1	-996	9.72	36.21	0.93	0	1	-995	0.00	36.21	0.93	0	1
-994	9.72	35.21	0.93	0	1	-993	0.00	35.21	0.93	0	1	-992	15.50	34.21	0.93	0	1
-991	9.72	34.21	0.93	0	1	-990	0.00	34.21	0.93	0	1	-989	15.50	33.63	0.93	0	1
-988	9.72	33.63	0.93	0	1	-987	0.00	33.63	0.93	0	1	-986	15.50	33.06	0.93	0	1
-985	9.72	33.06	0.93	0	1	-984	0.00	33.06	0.93	0	1	-983	15.50	32.51	0.93	0	1
-982	14.70	32.51	0.93	0	1	-981	13.90	32.51	0.93	0	1	-980	12.99	32.51	0.93	0	1
-979	12.07	32.51	0.93	0	1	-978	11.16	32.51	0.93	0	1	-977	10.25	32.51	0.93	0	1
-976	9.72	32.51	0.93	0	1	-975	0.00	32.51	0.93	0	1	-974	0.00	31.64	0.93	0	1

-973	0.00	30.78	0.93	0	1	-972	0.00	29.91	0.93	0	1	-971	0.00	29.04	0.93	0	1
-970	0.00	28.18	0.93	0	1	-969	0.00	27.31	0.93	0	1	-968	0.00	26.38	0.93	0	1
-967	0.00	25.44	0.93	0	1	-966	0.00	24.51	0.93	0	1	-965	0.00	23.57	0.93	0	1
-964	15.50	22.64	0.93	0	1	-963	0.00	22.64	0.93	0	1	-962	15.50	21.67	0.93	0	1
-961	0.00	21.67	0.93	0	1	-960	15.50	20.71	0.93	0	1	-959	0.00	20.71	0.93	0	1
-958	15.50	19.74	0.93	0	1	-957	0.00	19.74	0.93	0	1	-956	15.50	18.77	0.93	0	1
-955	0.00	18.77	0.93	0	1	-954	15.50	17.81	0.93	0	1	-953	0.00	17.81	0.93	0	1
-952	15.50	16.84	0.93	0	1	-951	0.00	16.84	0.93	0	1	-950	15.50	15.87	0.93	0	1
-949	0.00	15.87	0.93	0	1	-948	15.50	14.91	0.93	0	1	-947	0.00	14.91	0.93	0	1
-946	15.50	13.94	0.93	0	1	-945	0.00	13.94	0.93	0	1	-944	15.50	12.97	0.93	0	1
-943	0.00	12.97	0.93	0	1	-942	15.50	12.01	0.93	0	1	-941	0.00	12.01	0.93	0	1
-940	15.50	11.04	0.93	0	1	-939	0.00	11.04	0.93	0	1	-938	15.50	10.18	0.93	0	1
-937	0.00	10.18	0.93	0	1	-936	15.50	9.31	0.93	0	1	-935	0.00	9.31	0.93	0	1
-934	15.50	8.45	0.93	0	1	-933	0.00	8.45	0.93	0	1	-932	15.50	7.58	0.93	0	1
-931	0.00	7.58	0.93	0	1	-930	15.50	6.72	0.93	0	1	-929	0.00	6.72	0.93	0	1
-928	15.50	5.85	0.93	0	1	-927	0.00	5.85	0.93	0	1	-926	15.50	4.99	0.93	0	1
-925	5.25	4.99	0.93	0	1	-924	4.38	4.99	0.93	0	1	-923	3.50	4.99	0.93	0	1
-922	2.62	4.99	0.93	0	1	-921	1.75	4.99	0.93	0	1	-920	0.88	4.99	0.93	0	1
-919	0.00	4.99	0.93	0	1	-918	15.50	4.79	0.93	0	1	-917	15.50	3.83	0.93	0	1
-916	15.50	2.87	0.93	0	1	-915	15.50	1.92	0.93	0	1	-914	15.50	0.96	0.93	0	1
-913	15.50	0.00	0.93	0	1	-912	14.70	0.00	0.93	0	1	-911	13.90	0.00	0.93	0	1
-910	12.99	0.00	0.93	0	1	-909	12.07	0.00	0.93	0	1	-908	11.16	0.00	0.93	0	1
-907	10.25	0.00	0.93	0	1	-906	9.72	0.00	0.93	0	1	-905	8.83	0.00	0.93	0	1
-904	7.93	0.00	0.93	0	1	-903	7.04	0.00	0.93	0	1	-902	6.14	0.00	0.93	0	1
-901	5.25	0.00	0.93	0	1	-900	15.70	37.91	0.00	0	3	-899	15.50	37.91	0.00	0	3
-898	14.70	37.91	0.00	0	3	-897	13.90	37.91	0.00	0	3	-896	12.99	37.91	0.00	0	3
-895	12.07	37.91	0.00	0	3	-894	11.16	37.91	0.00	0	3	-893	10.25	37.91	0.00	0	3
-892	9.72	37.91	0.00	0	3	-891	8.83	37.91	0.00	0	3	-890	7.93	37.91	0.00	0	3
-889	7.04	37.91	0.00	0	3	-888	6.14	37.91	0.00	0	3	-887	5.25	37.91	0.00	0	3
-886	4.38	37.91	0.00	0	3	-885	3.50	37.91	0.00	0	3	-884	2.62	37.91	0.00	0	3
-883	1.75	37.91	0.00	0	3	-882	0.88	37.91	0.00	0	3	-881	0.00	37.91	0.00	0	3
-880	-0.20	37.91	0.00	0	3	-879	15.70	37.71	0.00	0	3	-878	15.50	37.71	0.00	0	3
-877	14.70	37.71	0.00	0	3	-876	13.90	37.71	0.00	0	3	-875	12.99	37.71	0.00	0	3
-874	12.07	37.71	0.00	0	3	-873	11.16	37.71	0.00	0	3	-872	10.25	37.71	0.00	0	3
-871	9.72	37.71	0.00	0	3	-870	8.83	37.71	0.00	0	3	-869	7.93	37.71	0.00	0	3
-868	7.04	37.71	0.00	0	3	-867	6.14	37.71	0.00	0	3	-866	4.38	37.71	0.00	0	3
-865	3.50	37.71	0.00	0	3	-864	2.62	37.71	0.00	0	3	-863	1.75	37.71	0.00	0	3
-862	0.88	37.71	0.00	0	3	-861	-0.20	37.71	0.00	0	3	-860	15.70	36.96	0.00	0	3
-859	15.50	36.96	0.00	0	3	-858	14.70	36.96	0.00	0	3	-857	13.90	36.96	0.00	0	3
-856	12.99	36.96	0.00	0	3	-855	12.07	36.96	0.00	0	3	-854	11.16	36.96	0.00	0	3
-853	10.25	36.96	0.00	0	3	-852	9.72	36.96	0.00	0	3	-851	8.83	36.96	0.00	0	3
-850	7.93	36.96	0.00	0	3	-849	7.04	36.96	0.00	0	3	-848	6.14	36.96	0.00	0	3
-847	5.25	36.96	0.00	0	3	-846	4.38	36.96	0.00	0	3	-845	3.50	36.96	0.00	0	3
-844	2.62	36.96	0.00	0	3	-843	1.75	36.96	0.00	0	3	-842	0.88	36.96	0.00	0	3
-841	0.00	36.96	0.00	0	3	-840	-0.20	36.96	0.00	0	3	-839	15.70	36.21	0.00	0	3
-838	15.50	36.21	0.00	0	3	-837	14.70	36.21	0.00	0	3	-836	13.90	36.21	0.00	0	3
-835	12.99	36.21	0.00	0	3	-834	12.07	36.21	0.00	0	3	-833	11.16	36.21	0.00	0	3
-832	10.25	36.21	0.00	0	3	-831	9.72	36.21	0.00	0	3	-830	8.83	36.21	0.00	0	3
-829	7.93	36.21	0.00	0	3	-828	7.04	36.21	0.00	0	3	-827	6.14	36.21	0.00	0	3
-826	5.25	36.21	0.00	0	3	-825	4.38	36.21	0.00	0	3	-824	3.50	36.21	0.00	0	3
-823	2.62	36.21	0.00	0	3	-822	1.75	36.21	0.00	0	3	-821	0.88	36.21	0.00	0	3

-820	0.00	36.21	0.00	0	3	-819	-0.20	36.21	0.00	0	3	-818	15.70	35.21	0.00	0	3
-817	15.50	35.21	0.00	0	3	-816	14.70	35.21	0.00	0	3	-815	13.90	35.21	0.00	0	3
-814	12.99	35.21	0.00	0	3	-813	12.07	35.21	0.00	0	3	-812	11.16	35.21	0.00	0	3
-811	10.25	35.21	0.00	0	3	-810	9.72	35.21	0.00	0	3	-809	8.83	35.21	0.00	0	3
-808	7.93	35.21	0.00	0	3	-807	7.04	35.21	0.00	0	3	-806	6.14	35.21	0.00	0	3
-805	5.25	35.21	0.00	0	3	-804	4.38	35.21	0.00	0	3	-803	3.50	35.21	0.00	0	3
-802	2.62	35.21	0.00	0	3	-801	1.75	35.21	0.00	0	3	-800	0.88	35.21	0.00	0	3
-799	0.00	35.21	0.00	0	3	-798	-0.20	35.21	0.00	0	3	-797	15.70	34.21	0.00	0	3
-796	15.50	34.21	0.00	0	3	-795	14.70	34.21	0.00	0	3	-794	13.90	34.21	0.00	0	3
-793	12.99	34.21	0.00	0	3	-792	12.07	34.21	0.00	0	3	-791	11.16	34.21	0.00	0	3
-790	10.25	34.21	0.00	0	3	-789	9.72	34.21	0.00	0	3	-788	8.83	34.21	0.00	0	3
-787	7.93	34.21	0.00	0	3	-786	7.04	34.21	0.00	0	3	-785	6.14	34.21	0.00	0	3
-784	5.25	34.21	0.00	0	3	-783	4.38	34.21	0.00	0	3	-782	3.50	34.21	0.00	0	3
-781	2.62	34.21	0.00	0	3	-780	1.75	34.21	0.00	0	3	-779	0.88	34.21	0.00	0	3
-778	0.00	34.21	0.00	0	3	-777	-0.20	34.21	0.00	0	3	-776	15.70	33.63	0.00	0	3
-775	15.50	33.63	0.00	0	3	-774	14.70	33.63	0.00	0	3	-773	13.90	33.63	0.00	0	3
-772	12.99	33.63	0.00	0	3	-771	12.07	33.63	0.00	0	3	-770	11.16	33.63	0.00	0	3
-769	10.25	33.63	0.00	0	3	-768	9.72	33.63	0.00	0	3	-767	8.83	33.63	0.00	0	3
-766	7.93	33.63	0.00	0	3	-765	7.04	33.63	0.00	0	3	-764	6.14	33.63	0.00	0	3
-763	5.25	33.63	0.00	0	3	-762	4.38	33.63	0.00	0	3	-761	3.50	33.63	0.00	0	3
-760	2.62	33.63	0.00	0	3	-759	1.75	33.63	0.00	0	3	-758	0.88	33.63	0.00	0	3
-757	0.00	33.63	0.00	0	3	-756	-0.20	33.63	0.00	0	3	-755	15.70	33.06	0.00	0	3
-754	15.50	33.06	0.00	0	3	-753	14.70	33.06	0.00	0	3	-752	13.90	33.06	0.00	0	3
-751	12.99	33.06	0.00	0	3	-750	12.07	33.06	0.00	0	3	-749	11.16	33.06	0.00	0	3
-748	10.25	33.06	0.00	0	3	-747	9.72	33.06	0.00	0	3	-746	8.83	33.06	0.00	0	3
-745	7.93	33.06	0.00	0	3	-744	7.04	33.06	0.00	0	3	-743	6.14	33.06	0.00	0	3
-742	5.25	33.06	0.00	0	3	-741	4.38	33.06	0.00	0	3	-740	3.50	33.06	0.00	0	3
-739	2.62	33.06	0.00	0	3	-738	1.75	33.06	0.00	0	3	-737	0.88	33.06	0.00	0	3
-736	0.00	33.06	0.00	0	3	-735	-0.20	33.06	0.00	0	3	-734	15.70	32.51	0.00	0	3
-733	15.50	32.51	0.00	0	3	-732	14.70	32.51	0.00	0	3	-731	13.90	32.51	0.00	0	3
-730	12.99	32.51	0.00	0	3	-729	12.07	32.51	0.00	0	3	-728	11.16	32.51	0.00	0	3
-727	10.25	32.51	0.00	0	3	-726	9.72	32.51	0.00	0	3	-725	8.83	32.51	0.00	0	3
-724	7.93	32.51	0.00	0	3	-723	7.04	32.51	0.00	0	3	-722	6.14	32.51	0.00	0	3
-721	4.38	32.51	0.00	0	3	-720	3.50	32.51	0.00	0	3	-719	2.62	32.51	0.00	0	3
-718	1.75	32.51	0.00	0	3	-717	0.88	32.51	0.00	0	3	-716	-0.20	32.51	0.00	0	3
-715	15.70	31.64	0.00	0	3	-714	15.50	31.64	0.00	0	3	-713	14.70	31.64	0.00	0	3
-712	13.90	31.64	0.00	0	3	-711	12.99	31.64	0.00	0	3	-710	12.07	31.64	0.00	0	3
-709	11.16	31.64	0.00	0	3	-708	10.25	31.64	0.00	0	3	-707	9.72	31.64	0.00	0	3
-706	8.83	31.64	0.00	0	3	-705	7.93	31.64	0.00	0	3	-704	7.04	31.64	0.00	0	3
-703	6.14	31.64	0.00	0	3	-702	5.25	31.64	0.00	0	3	-701	4.38	31.64	0.00	0	3
-700	3.50	31.64	0.00	0	3	-699	2.62	31.64	0.00	0	3	-698	1.75	31.64	0.00	0	3
-697	0.88	31.64	0.00	0	3	-696	0.00	31.64	0.00	0	3	-695	-0.20	31.64	0.00	0	3
-694	15.70	30.78	0.00	0	3	-693	15.50	30.78	0.00	0	3	-692	14.70	30.78	0.00	0	3
-691	13.90	30.78	0.00	0	3	-690	12.99	30.78	0.00	0	3	-689	12.07	30.78	0.00	0	3
-688	11.16	30.78	0.00	0	3	-687	10.25	30.78	0.00	0	3	-686	9.72	30.78	0.00	0	3
-685	8.83	30.78	0.00	0	3	-684	7.93	30.78	0.00	0	3	-683	7.04	30.78	0.00	0	3
-682	6.14	30.78	0.00	0	3	-681	5.25	30.78	0.00	0	3	-680	4.38	30.78	0.00	0	3
-679	3.50	30.78	0.00	0	3	-678	2.62	30.78	0.00	0	3	-677	1.75	30.78	0.00	0	3
-676	0.88	30.78	0.00	0	3	-675	0.00	30.78	0.00	0	3	-674	-0.20	30.78	0.00	0	3
-673	15.70	29.91	0.00	0	3	-672	15.50	29.91	0.00	0	3	-671	14.70	29.91	0.00	0	3
-670	13.90	29.91	0.00	0	3	-669	12.99	29.91	0.00	0	3	-668	12.07	29.91	0.00	0	3

-667	11.16	29.91	0.00	0	3	-666	10.25	29.91	0.00	0	3	-665	9.72	29.91	0.00	0	3
-664	8.83	29.91	0.00	0	3	-663	7.93	29.91	0.00	0	3	-662	7.04	29.91	0.00	0	3
-661	6.14	29.91	0.00	0	3	-660	5.25	29.91	0.00	0	3	-659	4.38	29.91	0.00	0	3
-658	3.50	29.91	0.00	0	3	-657	2.62	29.91	0.00	0	3	-656	1.75	29.91	0.00	0	3
-655	0.88	29.91	0.00	0	3	-654	0.00	29.91	0.00	0	3	-653	-0.20	29.91	0.00	0	3
-652	15.70	29.04	0.00	0	3	-651	15.50	29.04	0.00	0	3	-650	14.70	29.04	0.00	0	3
-649	13.90	29.04	0.00	0	3	-648	12.99	29.04	0.00	0	3	-647	12.07	29.04	0.00	0	3
-646	11.16	29.04	0.00	0	3	-645	10.25	29.04	0.00	0	3	-644	9.72	29.04	0.00	0	3
-643	8.83	29.04	0.00	0	3	-642	7.93	29.04	0.00	0	3	-641	7.04	29.04	0.00	0	3
-640	6.14	29.04	0.00	0	3	-639	5.25	29.04	0.00	0	3	-638	4.38	29.04	0.00	0	3
-637	3.50	29.04	0.00	0	3	-636	2.62	29.04	0.00	0	3	-635	1.75	29.04	0.00	0	3
-634	0.88	29.04	0.00	0	3	-633	0.00	29.04	0.00	0	3	-632	-0.20	29.04	0.00	0	3
-631	15.70	28.18	0.00	0	3	-630	15.50	28.18	0.00	0	3	-629	14.70	28.18	0.00	0	3
-628	13.90	28.18	0.00	0	3	-627	12.99	28.18	0.00	0	3	-626	12.07	28.18	0.00	0	3
-625	11.16	28.18	0.00	0	3	-624	10.25	28.18	0.00	0	3	-623	9.72	28.18	0.00	0	3
-622	8.83	28.18	0.00	0	3	-621	7.93	28.18	0.00	0	3	-620	7.04	28.18	0.00	0	3
-619	6.14	28.18	0.00	0	3	-618	5.25	28.18	0.00	0	3	-617	4.38	28.18	0.00	0	3
-616	3.50	28.18	0.00	0	3	-615	2.62	28.18	0.00	0	3	-614	1.75	28.18	0.00	0	3
-613	0.88	28.18	0.00	0	3	-612	0.00	28.18	0.00	0	3	-611	-0.20	28.18	0.00	0	3
-610	15.70	27.31	0.00	0	3	-609	14.70	27.31	0.00	0	3	-608	13.90	27.31	0.00	0	3
-607	12.99	27.31	0.00	0	3	-606	12.07	27.31	0.00	0	3	-605	11.16	27.31	0.00	0	3
-604	9.72	27.31	0.00	0	3	-603	8.83	27.31	0.00	0	3	-602	7.93	27.31	0.00	0	3
-601	7.04	27.31	0.00	0	3	-600	6.14	27.31	0.00	0	3	-599	4.38	27.31	0.00	0	3
-598	3.50	27.31	0.00	0	3	-597	2.62	27.31	0.00	0	3	-596	1.75	27.31	0.00	0	3
-595	0.88	27.31	0.00	0	3	-594	-0.20	27.31	0.00	0	3	-593	15.70	26.38	0.00	0	3
-592	15.50	26.38	0.00	0	3	-591	14.70	26.38	0.00	0	3	-590	13.90	26.38	0.00	0	3
-589	12.99	26.38	0.00	0	3	-588	12.07	26.38	0.00	0	3	-587	11.16	26.38	0.00	0	3
-586	10.25	26.38	0.00	0	3	-585	9.72	26.38	0.00	0	3	-584	8.83	26.38	0.00	0	3
-583	7.93	26.38	0.00	0	3	-582	7.04	26.38	0.00	0	3	-581	6.14	26.38	0.00	0	3
-580	5.25	26.38	0.00	0	3	-579	4.38	26.38	0.00	0	3	-578	3.50	26.38	0.00	0	3
-577	2.62	26.38	0.00	0	3	-576	1.75	26.38	0.00	0	3	-575	0.88	26.38	0.00	0	3
-574	0.00	26.38	0.00	0	3	-573	-0.20	26.38	0.00	0	3	-572	15.70	25.44	0.00	0	3
-571	15.50	25.44	0.00	0	3	-570	14.70	25.44	0.00	0	3	-569	13.90	25.44	0.00	0	3
-568	12.99	25.44	0.00	0	3	-567	12.07	25.44	0.00	0	3	-566	11.16	25.44	0.00	0	3
-565	10.25	25.44	0.00	0	3	-564	9.72	25.44	0.00	0	3	-563	8.83	25.44	0.00	0	3
-562	7.93	25.44	0.00	0	3	-561	7.04	25.44	0.00	0	3	-560	6.14	25.44	0.00	0	3
-559	5.25	25.44	0.00	0	3	-558	4.38	25.44	0.00	0	3	-557	3.50	25.44	0.00	0	3
-556	2.62	25.44	0.00	0	3	-555	1.75	25.44	0.00	0	3	-554	0.88	25.44	0.00	0	3
-553	0.00	25.44	0.00	0	3	-552	-0.20	25.44	0.00	0	3	-551	15.70	24.51	0.00	0	3
-550	15.50	24.51	0.00	0	3	-549	14.70	24.51	0.00	0	3	-548	13.90	24.51	0.00	0	3
-547	12.99	24.51	0.00	0	3	-546	12.07	24.51	0.00	0	3	-545	11.16	24.51	0.00	0	3
-544	10.25	24.51	0.00	0	3	-543	9.72	24.51	0.00	0	3	-542	8.83	24.51	0.00	0	3
-541	7.93	24.51	0.00	0	3	-540	7.04	24.51	0.00	0	3	-539	6.14	24.51	0.00	0	3
-538	5.25	24.51	0.00	0	3	-537	4.38	24.51	0.00	0	3	-536	3.50	24.51	0.00	0	3
-535	2.62	24.51	0.00	0	3	-534	1.75	24.51	0.00	0	3	-533	0.88	24.51	0.00	0	3
-532	0.00	24.51	0.00	0	3	-531	-0.20	24.51	0.00	0	3	-530	15.70	23.57	0.00	0	3
-529	15.50	23.57	0.00	0	3	-528	14.70	23.57	0.00	0	3	-527	13.90	23.57	0.00	0	3
-526	12.99	23.57	0.00	0	3	-525	12.07	23.57	0.00	0	3	-524	11.16	23.57	0.00	0	3
-523	10.25	23.57	0.00	0	3	-522	9.72	23.57	0.00	0	3	-521	8.83	23.57	0.00	0	3
-520	7.93	23.57	0.00	0	3	-519	7.04	23.57	0.00	0	3	-518	6.14	23.57	0.00	0	3
-517	5.25	23.57	0.00	0	3	-516	4.38	23.57	0.00	0	3	-515	3.50	23.57	0.00	0	3

-514	2.62	23.57	0.00	0	3	-513	1.75	23.57	0.00	0	3	-512	0.88	23.57	0.00	0	3
-511	0.00	23.57	0.00	0	3	-510	-0.20	23.57	0.00	0	3	-509	15.70	22.64	0.00	0	3
-508	14.70	22.64	0.00	0	3	-507	13.90	22.64	0.00	0	3	-506	12.99	22.64	0.00	0	3
-505	12.07	22.64	0.00	0	3	-504	11.16	22.64	0.00	0	3	-503	9.72	22.64	0.00	0	3
-502	8.83	22.64	0.00	0	3	-501	7.93	22.64	0.00	0	3	-500	7.04	22.64	0.00	0	3
-499	6.14	22.64	0.00	0	3	-498	4.38	22.64	0.00	0	3	-497	3.50	22.64	0.00	0	3
-496	2.62	22.64	0.00	0	3	-495	1.75	22.64	0.00	0	3	-494	0.88	22.64	0.00	0	3
-493	-0.20	22.64	0.00	0	3	-492	15.70	21.67	0.00	0	3	-491	15.50	21.67	0.00	0	3
-490	14.70	21.67	0.00	0	3	-489	13.90	21.67	0.00	0	3	-488	12.99	21.67	0.00	0	3
-487	12.07	21.67	0.00	0	3	-486	11.16	21.67	0.00	0	3	-485	10.25	21.67	0.00	0	3
-484	9.72	21.67	0.00	0	3	-483	8.83	21.67	0.00	0	3	-482	7.93	21.67	0.00	0	3
-481	7.04	21.67	0.00	0	3	-480	6.14	21.67	0.00	0	3	-479	5.25	21.67	0.00	0	3
-478	4.38	21.67	0.00	0	3	-477	3.50	21.67	0.00	0	3	-476	2.62	21.67	0.00	0	3
-475	1.75	21.67	0.00	0	3	-474	0.88	21.67	0.00	0	3	-473	0.00	21.67	0.00	0	3
-472	-0.20	21.67	0.00	0	3	-471	15.70	20.71	0.00	0	3	-470	15.50	20.71	0.00	0	3
-469	14.70	20.71	0.00	0	3	-468	13.90	20.71	0.00	0	3	-467	12.99	20.71	0.00	0	3
-466	12.07	20.71	0.00	0	3	-465	11.16	20.71	0.00	0	3	-464	10.25	20.71	0.00	0	3
-463	9.72	20.71	0.00	0	3	-462	8.83	20.71	0.00	0	3	-461	7.93	20.71	0.00	0	3
-460	7.04	20.71	0.00	0	3	-459	6.14	20.71	0.00	0	3	-458	5.25	20.71	0.00	0	3
-457	4.38	20.71	0.00	0	3	-456	3.50	20.71	0.00	0	3	-455	2.62	20.71	0.00	0	3
-454	1.75	20.71	0.00	0	3	-453	0.88	20.71	0.00	0	3	-452	0.00	20.71	0.00	0	3
-451	-0.20	20.71	0.00	0	3	-450	15.70	19.74	0.00	0	3	-449	15.50	19.74	0.00	0	3
-448	14.70	19.74	0.00	0	3	-447	13.90	19.74	0.00	0	3	-446	12.99	19.74	0.00	0	3
-445	12.07	19.74	0.00	0	3	-444	11.16	19.74	0.00	0	3	-443	10.25	19.74	0.00	0	3
-442	9.72	19.74	0.00	0	3	-441	8.83	19.74	0.00	0	3	-440	7.93	19.74	0.00	0	3
-439	7.04	19.74	0.00	0	3	-438	6.14	19.74	0.00	0	3	-437	5.25	19.74	0.00	0	3
-436	4.38	19.74	0.00	0	3	-435	3.50	19.74	0.00	0	3	-434	2.62	19.74	0.00	0	3
-433	1.75	19.74	0.00	0	3	-432	0.88	19.74	0.00	0	3	-431	0.00	19.74	0.00	0	3
-430	-0.20	19.74	0.00	0	3	-429	15.70	18.77	0.00	0	3	-428	15.50	18.77	0.00	0	3
-427	14.70	18.77	0.00	0	3	-426	13.90	18.77	0.00	0	3	-425	12.99	18.77	0.00	0	3
-424	12.07	18.77	0.00	0	3	-423	11.16	18.77	0.00	0	3	-422	10.25	18.77	0.00	0	3
-421	9.72	18.77	0.00	0	3	-420	8.83	18.77	0.00	0	3	-419	7.93	18.77	0.00	0	3
-418	7.04	18.77	0.00	0	3	-417	6.14	18.77	0.00	0	3	-416	5.25	18.77	0.00	0	3
-415	4.38	18.77	0.00	0	3	-414	3.50	18.77	0.00	0	3	-413	2.62	18.77	0.00	0	3
-412	1.75	18.77	0.00	0	3	-411	0.88	18.77	0.00	0	3	-410	0.00	18.77	0.00	0	3
-409	-0.20	18.77	0.00	0	3	-408	15.70	17.81	0.00	0	3	-407	15.50	17.81	0.00	0	3
-406	14.70	17.81	0.00	0	3	-405	13.90	17.81	0.00	0	3	-404	12.99	17.81	0.00	0	3
-403	12.07	17.81	0.00	0	3	-402	11.16	17.81	0.00	0	3	-401	10.25	17.81	0.00	0	3
-400	9.72	17.81	0.00	0	3	-399	8.83	17.81	0.00	0	3	-398	7.93	17.81	0.00	0	3
-397	7.04	17.81	0.00	0	3	-396	6.14	17.81	0.00	0	3	-395	5.25	17.81	0.00	0	3
-394	4.38	17.81	0.00	0	3	-393	3.50	17.81	0.00	0	3	-392	2.62	17.81	0.00	0	3
-391	1.75	17.81	0.00	0	3	-390	0.88	17.81	0.00	0	3	-389	0.00	17.81	0.00	0	3
-388	-0.20	17.81	0.00	0	3	-387	15.70	16.84	0.00	0	3	-386	14.70	16.84	0.00	0	3
-385	13.90	16.84	0.00	0	3	-384	12.99	16.84	0.00	0	3	-383	12.07	16.84	0.00	0	3
-382	11.16	16.84	0.00	0	3	-381	9.72	16.84	0.00	0	3	-380	8.83	16.84	0.00	0	3
-379	7.93	16.84	0.00	0	3	-378	7.04	16.84	0.00	0	3	-377	6.14	16.84	0.00	0	3
-376	4.38	16.84	0.00	0	3	-375	3.50	16.84	0.00	0	3	-374	2.62	16.84	0.00	0	3
-373	1.75	16.84	0.00	0	3	-372	0.88	16.84	0.00	0	3	-371	-0.20	16.84	0.00	0	3
-370	15.70	15.87	0.00	0	3	-369	15.50	15.87	0.00	0	3	-368	14.70	15.87	0.00	0	3
-367	13.90	15.87	0.00	0	3	-366	12.99	15.87	0.00	0	3	-365	12.07	15.87	0.00	0	3
-364	11.16	15.87	0.00	0	3	-363	10.25	15.87	0.00	0	3	-362	9.72	15.87	0.00	0	3

-361	8.83	15.87	0.00	0	3	-360	7.93	15.87	0.00	0	3	-359	7.04	15.87	0.00	0	3
-358	6.14	15.87	0.00	0	3	-357	5.25	15.87	0.00	0	3	-356	4.38	15.87	0.00	0	3
-355	3.50	15.87	0.00	0	3	-354	2.62	15.87	0.00	0	3	-353	1.75	15.87	0.00	0	3
-352	0.88	15.87	0.00	0	3	-351	0.00	15.87	0.00	0	3	-350	-0.20	15.87	0.00	0	3
-349	15.70	14.91	0.00	0	3	-348	15.50	14.91	0.00	0	3	-347	14.70	14.91	0.00	0	3
-346	13.90	14.91	0.00	0	3	-345	12.99	14.91	0.00	0	3	-344	12.07	14.91	0.00	0	3
-343	11.16	14.91	0.00	0	3	-342	10.25	14.91	0.00	0	3	-341	9.72	14.91	0.00	0	3
-340	8.83	14.91	0.00	0	3	-339	7.93	14.91	0.00	0	3	-338	7.04	14.91	0.00	0	3
-337	6.14	14.91	0.00	0	3	-336	5.25	14.91	0.00	0	3	-335	4.38	14.91	0.00	0	3
-334	3.50	14.91	0.00	0	3	-333	2.62	14.91	0.00	0	3	-332	1.75	14.91	0.00	0	3
-331	0.88	14.91	0.00	0	3	-330	0.00	14.91	0.00	0	3	-329	-0.20	14.91	0.00	0	3
-328	15.70	13.94	0.00	0	3	-327	15.50	13.94	0.00	0	3	-326	14.70	13.94	0.00	0	3
-325	13.90	13.94	0.00	0	3	-324	12.99	13.94	0.00	0	3	-323	12.07	13.94	0.00	0	3
-322	11.16	13.94	0.00	0	3	-321	10.25	13.94	0.00	0	3	-320	9.72	13.94	0.00	0	3
-319	8.83	13.94	0.00	0	3	-318	7.93	13.94	0.00	0	3	-317	7.04	13.94	0.00	0	3
-316	6.14	13.94	0.00	0	3	-315	5.25	13.94	0.00	0	3	-314	4.38	13.94	0.00	0	3
-313	3.50	13.94	0.00	0	3	-312	2.62	13.94	0.00	0	3	-311	1.75	13.94	0.00	0	3
-310	0.88	13.94	0.00	0	3	-309	0.00	13.94	0.00	0	3	-308	-0.20	13.94	0.00	0	3
-307	15.70	12.97	0.00	0	3	-306	15.50	12.97	0.00	0	3	-305	14.70	12.97	0.00	0	3
-304	13.90	12.97	0.00	0	3	-303	12.99	12.97	0.00	0	3	-302	12.07	12.97	0.00	0	3
-301	11.16	12.97	0.00	0	3	-300	10.25	12.97	0.00	0	3	-299	9.72	12.97	0.00	0	3
-298	8.83	12.97	0.00	0	3	-297	7.93	12.97	0.00	0	3	-296	7.04	12.97	0.00	0	3
-295	6.14	12.97	0.00	0	3	-294	5.25	12.97	0.00	0	3	-293	4.38	12.97	0.00	0	3
-292	3.50	12.97	0.00	0	3	-291	2.62	12.97	0.00	0	3	-290	1.75	12.97	0.00	0	3
-289	0.88	12.97	0.00	0	3	-288	0.00	12.97	0.00	0	3	-287	-0.20	12.97	0.00	0	3
-286	15.70	12.01	0.00	0	3	-285	15.50	12.01	0.00	0	3	-284	14.70	12.01	0.00	0	3
-283	13.90	12.01	0.00	0	3	-282	12.99	12.01	0.00	0	3	-281	12.07	12.01	0.00	0	3
-280	11.16	12.01	0.00	0	3	-279	10.25	12.01	0.00	0	3	-278	9.72	12.01	0.00	0	3
-277	8.83	12.01	0.00	0	3	-276	7.93	12.01	0.00	0	3	-275	7.04	12.01	0.00	0	3
-274	6.14	12.01	0.00	0	3	-273	5.25	12.01	0.00	0	3	-272	4.38	12.01	0.00	0	3
-271	3.50	12.01	0.00	0	3	-270	2.62	12.01	0.00	0	3	-269	1.75	12.01	0.00	0	3
-268	0.88	12.01	0.00	0	3	-267	0.00	12.01	0.00	0	3	-266	-0.20	12.01	0.00	0	3
-265	15.70	11.04	0.00	0	3	-264	14.70	11.04	0.00	0	3	-263	13.90	11.04	0.00	0	3
-262	12.99	11.04	0.00	0	3	-261	12.07	11.04	0.00	0	3	-260	11.16	11.04	0.00	0	3
-259	9.72	11.04	0.00	0	3	-258	8.83	11.04	0.00	0	3	-257	7.93	11.04	0.00	0	3
-256	7.04	11.04	0.00	0	3	-255	6.14	11.04	0.00	0	3	-254	4.38	11.04	0.00	0	3
-253	3.50	11.04	0.00	0	3	-252	2.62	11.04	0.00	0	3	-251	1.75	11.04	0.00	0	3
-250	0.88	11.04	0.00	0	3	-249	-0.20	11.04	0.00	0	3	-248	15.70	10.18	0.00	0	3
-247	15.50	10.18	0.00	0	3	-246	14.70	10.18	0.00	0	3	-245	13.90	10.18	0.00	0	3
-244	12.99	10.18	0.00	0	3	-243	12.07	10.18	0.00	0	3	-242	11.16	10.18	0.00	0	3
-241	10.25	10.18	0.00	0	3	-240	9.72	10.18	0.00	0	3	-239	8.83	10.18	0.00	0	3
-238	7.93	10.18	0.00	0	3	-237	7.04	10.18	0.00	0	3	-236	6.14	10.18	0.00	0	3
-235	5.25	10.18	0.00	0	3	-234	4.38	10.18	0.00	0	3	-233	3.50	10.18	0.00	0	3
-232	2.62	10.18	0.00	0	3	-231	1.75	10.18	0.00	0	3	-230	0.88	10.18	0.00	0	3
-229	0.00	10.18	0.00	0	3	-228	-0.20	10.18	0.00	0	3	-227	15.70	9.31	0.00	0	3
-226	15.50	9.31	0.00	0	3	-225	14.70	9.31	0.00	0	3	-224	13.90	9.31	0.00	0	3
-223	12.99	9.31	0.00	0	3	-222	12.07	9.31	0.00	0	3	-221	11.16	9.31	0.00	0	3
-220	10.25	9.31	0.00	0	3	-219	9.72	9.31	0.00	0	3	-218	8.83	9.31	0.00	0	3
-217	7.93	9.31	0.00	0	3	-216	7.04	9.31	0.00	0	3	-215	6.14	9.31	0.00	0	3
-214	5.25	9.31	0.00	0	3	-213	4.38	9.31	0.00	0	3	-212	3.50	9.31	0.00	0	3
-211	2.62	9.31	0.00	0	3	-210	1.75	9.31	0.00	0	3	-209	0.88	9.31	0.00	0	3

-208	0.00	9.31	0.00	0	3	-207	-0.20	9.31	0.00	0	3	-206	15.70	8.45	0.00	0	3
-205	15.50	8.45	0.00	0	3	-204	14.70	8.45	0.00	0	3	-203	13.90	8.45	0.00	0	3
-202	12.99	8.45	0.00	0	3	-201	12.07	8.45	0.00	0	3	-200	11.16	8.45	0.00	0	3
-199	10.25	8.45	0.00	0	3	-198	9.72	8.45	0.00	0	3	-197	8.83	8.45	0.00	0	3
-196	7.93	8.45	0.00	0	3	-195	7.04	8.45	0.00	0	3	-194	6.14	8.45	0.00	0	3
-193	5.25	8.45	0.00	0	3	-192	4.38	8.45	0.00	0	3	-191	3.50	8.45	0.00	0	3
-190	2.62	8.45	0.00	0	3	-189	1.75	8.45	0.00	0	3	-188	0.88	8.45	0.00	0	3
-187	0.00	8.45	0.00	0	3	-186	-0.20	8.45	0.00	0	3	-185	15.70	7.58	0.00	0	3
-184	15.50	7.58	0.00	0	3	-183	14.70	7.58	0.00	0	3	-182	13.90	7.58	0.00	0	3
-181	12.99	7.58	0.00	0	3	-180	12.07	7.58	0.00	0	3	-179	11.16	7.58	0.00	0	3
-178	10.25	7.58	0.00	0	3	-177	9.72	7.58	0.00	0	3	-176	8.83	7.58	0.00	0	3
-175	7.93	7.58	0.00	0	3	-174	7.04	7.58	0.00	0	3	-173	6.14	7.58	0.00	0	3
-172	5.25	7.58	0.00	0	3	-171	4.38	7.58	0.00	0	3	-170	3.50	7.58	0.00	0	3
-169	2.62	7.58	0.00	0	3	-168	1.75	7.58	0.00	0	3	-167	0.88	7.58	0.00	0	3
-166	0.00	7.58	0.00	0	3	-165	-0.20	7.58	0.00	0	3	-164	15.70	6.72	0.00	0	3
-163	15.50	6.72	0.00	0	3	-162	14.70	6.72	0.00	0	3	-161	13.90	6.72	0.00	0	3
-160	12.99	6.72	0.00	0	3	-159	12.07	6.72	0.00	0	3	-158	11.16	6.72	0.00	0	3
-157	10.25	6.72	0.00	0	3	-156	9.72	6.72	0.00	0	3	-155	8.83	6.72	0.00	0	3
-154	7.93	6.72	0.00	0	3	-153	7.04	6.72	0.00	0	3	-152	6.14	6.72	0.00	0	3
-151	5.25	6.72	0.00	0	3	-150	4.38	6.72	0.00	0	3	-149	3.50	6.72	0.00	0	3
-148	2.62	6.72	0.00	0	3	-147	1.75	6.72	0.00	0	3	-146	0.88	6.72	0.00	0	3
-145	0.00	6.72	0.00	0	3	-144	-0.20	6.72	0.00	0	3	-143	15.70	5.85	0.00	0	3
-142	15.50	5.85	0.00	0	3	-141	14.70	5.85	0.00	0	3	-140	13.90	5.85	0.00	0	3
-139	12.99	5.85	0.00	0	3	-138	12.07	5.85	0.00	0	3	-137	11.16	5.85	0.00	0	3
-136	10.25	5.85	0.00	0	3	-135	9.72	5.85	0.00	0	3	-134	8.83	5.85	0.00	0	3
-133	7.93	5.85	0.00	0	3	-132	7.04	5.85	0.00	0	3	-131	6.14	5.85	0.00	0	3
-130	5.25	5.85	0.00	0	3	-129	4.38	5.85	0.00	0	3	-128	3.50	5.85	0.00	0	3
-127	2.62	5.85	0.00	0	3	-126	1.75	5.85	0.00	0	3	-125	0.88	5.85	0.00	0	3
-124	0.00	5.85	0.00	0	3	-123	-0.20	5.85	0.00	0	3	-122	15.70	4.99	0.00	0	3
-121	14.70	4.99	0.00	0	3	-120	13.90	4.99	0.00	0	3	-119	12.99	4.99	0.00	0	3
-118	12.07	4.99	0.00	0	3	-117	11.16	4.99	0.00	0	3	-116	9.72	4.99	0.00	0	3
-115	8.83	4.99	0.00	0	3	-114	7.93	4.99	0.00	0	3	-113	7.04	4.99	0.00	0	3
-112	6.14	4.99	0.00	0	3	-111	4.38	4.99	0.00	0	3	-110	3.50	4.99	0.00	0	3
-109	2.62	4.99	0.00	0	3	-108	1.75	4.99	0.00	0	3	-107	0.88	4.99	0.00	0	3
-106	-0.20	4.99	0.00	0	3	-105	15.70	4.79	0.00	0	3	-104	15.50	4.79	0.00	0	3
-103	14.70	4.79	0.00	0	3	-102	13.90	4.79	0.00	0	3	-101	12.99	4.79	0.00	0	3
-100	12.07	4.79	0.00	0	3	-99	11.16	4.79	0.00	0	3	-98	10.25	4.79	0.00	0	3
-97	9.72	4.79	0.00	0	3	-96	8.83	4.79	0.00	0	3	-95	7.93	4.79	0.00	0	3
-94	7.04	4.79	0.00	0	3	-93	6.14	4.79	0.00	0	3	-92	5.25	4.79	0.00	0	3
-91	4.38	4.79	0.00	0	3	-90	3.50	4.79	0.00	0	3	-89	2.62	4.79	0.00	0	3
-88	1.75	4.79	0.00	0	3	-87	0.88	4.79	0.00	0	3	-86	0.00	4.79	0.00	0	3
-85	-0.20	4.79	0.00	0	3	-84	15.70	3.83	0.00	0	3	-83	15.50	3.83	0.00	0	3
-82	14.70	3.83	0.00	0	3	-81	13.90	3.83	0.00	0	3	-80	12.99	3.83	0.00	0	3
-79	12.07	3.83	0.00	0	3	-78	11.16	3.83	0.00	0	3	-77	10.25	3.83	0.00	0	3
-76	9.72	3.83	0.00	0	3	-75	8.83	3.83	0.00	0	3	-74	7.93	3.83	0.00	0	3
-73	7.04	3.83	0.00	0	3	-72	6.14	3.83	0.00	0	3	-71	5.25	3.83	0.00	0	3
-70	15.70	2.87	0.00	0	3	-69	15.50	2.87	0.00	0	3	-68	14.70	2.87	0.00	0	3
-67	13.90	2.87	0.00	0	3	-66	12.99	2.87	0.00	0	3	-65	12.07	2.87	0.00	0	3
-64	11.16	2.87	0.00	0	3	-63	10.25	2.87	0.00	0	3	-62	9.72	2.87	0.00	0	3
-61	8.83	2.87	0.00	0	3	-60	7.93	2.87	0.00	0	3	-59	7.04	2.87	0.00	0	3
-58	6.14	2.87	0.00	0	3	-57	5.25	2.87	0.00	0	3	-56	15.70	1.92	0.00	0	3

-55	15.50	1.92	0.00	0	3	-54	14.70	1.92	0.00	0	3	-53	13.90	1.92	0.00	0	3
-52	12.99	1.92	0.00	0	3	-51	12.07	1.92	0.00	0	3	-50	11.16	1.92	0.00	0	3
-49	10.25	1.92	0.00	0	3	-48	9.72	1.92	0.00	0	3	-47	8.83	1.92	0.00	0	3
-46	7.93	1.92	0.00	0	3	-45	7.04	1.92	0.00	0	3	-44	6.14	1.92	0.00	0	3
-43	5.25	1.92	0.00	0	3	-42	15.70	0.96	0.00	0	3	-41	15.50	0.96	0.00	0	3
-40	14.70	0.96	0.00	0	3	-39	13.90	0.96	0.00	0	3	-38	12.99	0.96	0.00	0	3
-37	12.07	0.96	0.00	0	3	-36	11.16	0.96	0.00	0	3	-35	10.25	0.96	0.00	0	3
-34	9.72	0.96	0.00	0	3	-33	8.83	0.96	0.00	0	3	-32	7.93	0.96	0.00	0	3
-31	7.04	0.96	0.00	0	3	-30	6.14	0.96	0.00	0	3	-29	5.25	0.96	0.00	0	3
-28	15.70	0.00	0.00	0	3	-27	15.50	0.00	0.00	0	3	-26	14.70	0.00	0.00	0	3
-25	13.90	0.00	0.00	0	3	-24	12.99	0.00	0.00	0	3	-23	12.07	0.00	0.00	0	3
-22	11.16	0.00	0.00	0	3	-21	10.25	0.00	0.00	0	3	-20	9.72	0.00	0.00	0	3
-19	8.83	0.00	0.00	0	3	-18	7.93	0.00	0.00	0	3	-17	7.04	0.00	0.00	0	3
-16	6.14	0.00	0.00	0	3	-15	5.25	0.00	0.00	0	3	-14	15.70	-0.20	0.00	0	3
-13	15.50	-0.20	0.00	0	3	-12	14.70	-0.20	0.00	0	3	-11	13.90	-0.20	0.00	0	3
-10	12.99	-0.20	0.00	0	3	-9	12.07	-0.20	0.00	0	3	-8	11.16	-0.20	0.00	0	3
-7	10.25	-0.20	0.00	0	3	-6	9.72	-0.20	0.00	0	3	-5	8.83	-0.20	0.00	0	3
-4	7.93	-0.20	0.00	0	3	-3	7.04	-0.20	0.00	0	3	-2	6.14	-0.20	0.00	0	3
-1	5.25	-0.20	0.00	0	3	1	0.00	4.99	0.00	0	3	2	5.25	4.99	0.00	0	3
3	10.25	4.99	0.00	0	3	4	15.50	4.99	0.00	0	3	5	0.00	11.04	0.00	0	3
6	5.25	11.04	0.00	0	3	7	10.25	11.04	0.00	0	3	8	15.50	11.04	0.00	0	3
9	0.00	16.84	0.00	0	3	10	5.25	16.84	0.00	0	3	11	10.25	16.84	0.00	0	3
12	15.50	16.84	0.00	0	3	13	0.00	22.64	0.00	0	3	14	5.25	22.64	0.00	0	3
15	10.25	22.64	0.00	0	3	16	15.50	22.64	0.00	0	3	17	0.00	27.31	0.00	0	3
18	5.25	27.31	0.00	0	3	19	10.25	27.31	0.00	0	3	20	15.50	27.31	0.00	0	3
21	0.00	32.51	0.00	0	3	22	5.25	32.51	0.00	0	3	23	0.00	37.71	0.00	0	3
24	5.25	37.71	0.00	0	3	101	0.00	4.99	2.80	1	1	102	5.25	4.99	2.80	1	1
103	10.25	4.99	2.80	1	1	104	15.50	4.99	2.80	1	1	105	0.00	11.04	2.80	1	1
106	5.25	11.04	2.80	1	1	107	10.25	11.04	2.80	1	1	108	15.50	11.04	2.80	1	1
109	0.00	16.84	2.80	1	1	110	5.25	16.84	2.80	1	1	111	10.25	16.84	2.80	1	1
112	15.50	16.84	2.80	1	1	113	0.00	22.64	2.80	1	1	114	5.25	22.64	2.80	1	1
115	10.25	22.64	2.80	1	1	116	15.50	22.64	2.80	1	1	117	0.00	27.31	2.80	1	1
118	5.25	27.31	2.80	1	1	119	10.25	27.31	2.80	1	1	120	15.50	27.31	2.80	1	1
121	0.00	32.51	2.80	1	1	122	5.25	32.51	2.80	1	1	123	0.00	37.71	2.80	1	1
124	5.25	37.71	2.80	1	1	125	5.25	0.00	2.80	1	1	126	10.25	0.00	2.80	1	1
127	9.72	32.51	2.80	1	1	128	10.25	32.51	2.80	1	1	129	15.50	32.51	2.80	1	1
204	15.50	4.99	6.35	2	1	205	0.00	11.04	6.35	2	1	208	15.50	11.04	6.35	2	1
209	0.00	16.84	6.35	2	1	212	15.50	16.84	6.35	2	1	213	0.00	22.64	6.35	2	1
216	15.50	22.64	6.35	2	1	217	0.00	27.31	6.35	2	1	220	15.50	27.31	6.35	2	1
221	0.00	32.51	6.35	2	1	222	15.50	32.51	6.35	2	1	301	0.00	4.99	7.40	3	1
302	5.25	4.99	7.40	3	1	303	10.25	4.99	7.40	3	1	304	15.50	4.99	7.40	3	1
305	0.00	11.04	7.40	3	1	306	5.25	11.04	7.40	3	1	307	10.25	11.04	7.40	3	1
308	15.50	11.04	7.40	3	1	309	0.00	16.84	7.40	3	1	310	5.25	16.84	7.40	3	1
311	10.25	16.84	7.40	3	1	312	15.50	16.84	7.40	3	1	313	0.00	22.64	7.40	3	1
314	5.25	22.64	7.40	3	1	315	10.25	22.64	7.40	3	1	316	15.50	22.64	7.40	3	1
317	0.00	27.31	7.40	3	1	318	5.25	27.31	7.40	3	1	319	10.25	27.31	7.40	3	1
320	15.50	27.31	7.40	3	1	321	0.00	32.51	7.40	3	1	322	5.25	32.51	7.40	3	1
323	0.00	37.71	7.40	3	1	324	5.25	37.71	7.40	3	1	325	9.72	32.51	7.40	3	1
326	10.25	32.51	7.40	3	1	327	15.50	32.51	7.40	3	1	328	9.72	37.71	7.40	3	1

Elenco materiali

Simbologia

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

Mat.	Comm.	P <daN/mc>	E <daN/cmq>	G <daN/cmq>	ν	α
5	Calcestruzzo classe C25/30	2500	314472.00	142942.00	0.1	1.00E-05
7	Calcestruzzo classe C30/37	2500	330194.00	150088.00	0.1	1.00E-05

Elenco sezioni aste

Simbologia

B = Base
C = Numero del criterio di progetto
Comm. = Commento
Crit. C.F. = Criterio di progetto collegamento finale
Crit. C.I. = Criterio di progetto collegamento iniziale
H = Altezza
Ma = Numero del materiale
Mem. = Membratura
T = Trave
P = Pilastro
Sez. = Numero della sezione
Tipo = Tipologia
R = Rettangolare
Ver. = Verifica prevista
C = Cemento armato

Sez.	Comm.	Tipo	Mem.	Ver.	B <cm>	H <cm>	Ma	C	Crit. C.I.	Crit. C.F.
1	pil. 40x50	R	P	C	40.00	50.00	7	1		
2	tr. 60x30	R	T	C	60.00	30.00	7	4		
3	tr. 30x30	R	T	C	30.00	30.00	7	4		
4	tr. 50x30	R	T	C	50.00	30.00	7	4		
5	tr. 30x25	R	T	C	30.00	25.00	7	4		
6	pil. 40x40	R	P	C	40.00	40.00	7	1		
7	pil. 40x60	R	P	C	40.00	60.00	7	1		

Elenco vincoli aste

Simbologia

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

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

Elenco aste

Simbologia

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

Sez. = Numero della sezione
Va = Numero del vincolo asta

Asta	N1	N2	Sez.	Va	Par.	Rot. <grad>	FF	Dy1 <cm>	Dy2 <cm>	Dz1 <cm>	Dz2 <cm>	Kt <daN/cmc>
0	-1280	101		1		0.00	11	0.00	0.00	0.00	0.00	
0	101	-1275		1		0.00	11	0.00	0.00	0.00	0.00	
0	125	-1259		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1282	-1280		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1275	-1276		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1259	-1260		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1284	-1282		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1276	-1277		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1260	-1261		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1286	-1284		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1277	-1278		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1261	-1262		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1288	-1286		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1278	-1279		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1262	-1263		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1290	-1288		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1279	102		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1263	126		1		0.00	33	0.00	0.00	0.00	0.00	
0	105	-1290		1		0.00	11	0.00	0.00	0.00	0.00	
0	126	-1264		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1292	105		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1264	-1265		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1294	-1292		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1265	-1266		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1266	-1267		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1296	-1294		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1267	-1268		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1298	-1296		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1268	-1269		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1300	-1298		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1269	-1270		1		0.00	33	0.00	0.00	0.00	0.00	
0	109	-1300		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1270	-1271		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1302	109		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1271	-1272		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1304	-1302		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1272	-1273		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1306	-1304		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1273	-1274		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1308	-1306		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1274	104		1		0.00	33	0.00	0.00	0.00	0.00	
0	104	-1281		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1310	-1308		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1281	-1283		1		0.00	11	0.00	0.00	0.00	0.00	
0	113	-1310		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1283	-1285		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1312	113		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1285	-1287		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1313	-1312		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1287	-1289		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1314	-1313		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1289	-1291		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1315	-1314		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1291	108		1		0.00	11	0.00	0.00	0.00	0.00	
0	117	-1315		1		0.00	11	0.00	0.00	0.00	0.00	
0	108	-1293		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1316	117		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1293	-1295		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1317	-1316		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1295	-1297		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1318	-1317		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1297	-1299		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1319	-1318		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1299	-1301		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1320	-1319		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1301	112		1		0.00	11	0.00	0.00	0.00	0.00	
0	121	-1320		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1326	121		1		0.00	11	0.00	0.00	0.00	0.00	
0	112	-1303		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1329	-1326		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1303	-1305		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1332	-1329		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1335	-1332		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1305	-1307		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1338	-1335		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1307	-1309		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1341	-1338		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1309	-1311		1		0.00	11	0.00	0.00	0.00	0.00	
0	123	-1341		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1311	116		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1344	123		1		0.00	11	0.00	0.00	0.00	0.00	

0	-1345	-1344		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1346	-1345		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1347	-1346		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1348	-1347		1		0.00	11	0.00	0.00	0.00	0.00	
0	128	127		1		0.00	33	0.00	0.00	0.00	0.00	
0	127	-1327		1		0.00	33	0.00	0.00	0.00	0.00	
0	124	-1348		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1327	-1330		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1321	128		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1330	-1333		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1333	-1336		1		0.00	33	0.00	0.00	0.00	0.00	
0	325	-1565		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1349	124		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1322	-1321		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1350	-1349		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1323	-1322		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1336	-1339		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1324	-1323		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1339	-1342		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1325	-1324		1		0.00	33	0.00	0.00	0.00	0.00	
0	326	325		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1560	326		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1340	-1337		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1561	-1560		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1562	-1561		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1351	-1350		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1352	-1351		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1353	-1352		1		0.00	11	0.00	0.00	0.00	0.00	
0	-1328	129		1		0.00	33	0.00	0.00	0.00	0.00	
0	327	-1564		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1354	-1353		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1355	-1354		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1356	-1355		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1337	-1334		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1357	-1356		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1358	-1357		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1359	-1358		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1565	-1567		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1569	-1571		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1571	-1573		1		0.00	33	0.00	0.00	0.00	0.00	
0	129	-1325		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1671	-1679		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1563	-1562		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1342	-1353		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1567	-1569		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1331	-1328		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1360	-1359		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1664	-1663		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1663	-1671		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1665	-1664		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1573	-1575		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1575	328		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1577	328		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1334	-1331		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1343	-1340		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1679	-1687		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1687	-1695		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1564	-1563		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1666	-1665		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1668	-1667		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1578	-1577		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1360	-1343		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1667	-1666		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1703	-1711		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1669	-1668		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1711	-1719		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1720	-1719		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1566	327		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1568	-1566		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1670	-1669		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1678	-1670		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1579	-1578		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1570	-1568		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1580	-1579		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1695	-1703		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1721	-1720		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1576	-1574		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1686	-1678		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1581	-1580		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1722	-1721		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1582	-1576		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1694	-1686		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1702	-1694		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1723	-1722		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1724	-1723		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1710	-1702		1		0.00	33	0.00	0.00	0.00	0.00	

0	-1725	-1724		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1718	-1710		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1726	-1725		1		0.00	33	0.00	0.00	0.00	0.00	
0	-1726	-1718		1		0.00	33	0.00	0.00	0.00	0.00	
1	1	-919	1	1		0.00	11	0.00	0.00	0.00	0.00	
1	-919	-1038	1	1		0.00	11	0.00	0.00	0.00	0.00	
1	-1038	-1157	1	1		0.00	11	0.00	0.00	0.00	0.00	
1	-1157	101	1	1		0.00	11	0.00	0.00	0.00	0.00	
1	101	301	1	1		0.00	11	0.00	0.00	0.00	0.00	
2	2	-925	7	1		0.00	77	0.00	0.00	0.00	0.00	
2	-925	-1044	7	1		0.00	77	0.00	0.00	0.00	0.00	
2	-1044	-1163	7	1		0.00	77	0.00	0.00	0.00	0.00	
2	-1163	102	7	1		0.00	77	0.00	0.00	0.00	0.00	
2	102	302	7	1		0.00	77	0.00	0.00	0.00	0.00	
3	3	103	7	1		0.00	11	0.00	0.00	0.00	0.00	
3	103	303	7	1		0.00	11	0.00	0.00	0.00	0.00	
4	4	-926	1	1		0.00	77	0.00	0.00	0.00	0.00	
4	-926	-1045	1	1		0.00	77	0.00	0.00	0.00	0.00	
4	-1045	-1164	1	1		0.00	77	0.00	0.00	0.00	0.00	
4	-1164	104	1	1		0.00	77	0.00	0.00	0.00	0.00	
4	104	204	1	1		0.00	77	0.00	0.00	0.00	0.00	
4	204	304	1	1		0.00	77	0.00	0.00	0.00	0.00	
5	5	-939	1	1		0.00	22	0.00	0.00	0.00	0.00	
5	-939	-1058	1	1		0.00	22	0.00	0.00	0.00	0.00	
5	-1058	-1177	1	1		0.00	22	0.00	0.00	0.00	0.00	
5	-1177	105	1	1		0.00	22	0.00	0.00	0.00	0.00	
5	105	205	1	1		0.00	22	0.00	0.00	0.00	0.00	
5	205	305	1	1		0.00	22	0.00	0.00	0.00	0.00	
6	6	106	1	1		0.00	88	0.00	0.00	0.00	0.00	
6	106	306	1	1		0.00	88	0.00	0.00	0.00	0.00	
7	7	107	1	1		0.00	22	0.00	0.00	0.00	0.00	
7	107	307	1	1		0.00	22	0.00	0.00	0.00	0.00	
8	8	-940	1	1		0.00	88	0.00	0.00	0.00	0.00	
8	-940	-1059	1	1		0.00	88	0.00	0.00	0.00	0.00	
8	-1059	-1178	1	1		0.00	88	0.00	0.00	0.00	0.00	
8	-1178	108	1	1		0.00	88	0.00	0.00	0.00	0.00	
8	108	208	1	1		0.00	88	0.00	0.00	0.00	0.00	
8	208	308	1	1		0.00	88	0.00	0.00	0.00	0.00	
9	9	-951	1	1		0.00	22	0.00	0.00	0.00	0.00	
9	-951	-1070	1	1		0.00	22	0.00	0.00	0.00	0.00	
9	-1070	-1189	1	1		0.00	22	0.00	0.00	0.00	0.00	
9	-1189	109	1	1		0.00	22	0.00	0.00	0.00	0.00	
9	109	209	1	1		0.00	22	0.00	0.00	0.00	0.00	
9	209	309	1	1		0.00	22	0.00	0.00	0.00	0.00	
10	10	110	1	1		0.00	88	0.00	0.00	0.00	0.00	
10	110	310	1	1		0.00	88	0.00	0.00	0.00	0.00	
11	11	111	1	1		0.00	22	0.00	0.00	0.00	0.00	
11	111	311	1	1		0.00	22	0.00	0.00	0.00	0.00	
12	12	-952	1	1		0.00	88	0.00	0.00	0.00	0.00	
12	-952	-1071	1	1		0.00	88	0.00	0.00	0.00	0.00	
12	-1071	-1190	1	1		0.00	88	0.00	0.00	0.00	0.00	
12	-1190	112	1	1		0.00	88	0.00	0.00	0.00	0.00	
12	112	212	1	1		0.00	88	0.00	0.00	0.00	0.00	
12	212	312	1	1		0.00	88	0.00	0.00	0.00	0.00	
13	13	-963	6	1		0.00	22	0.00	0.00	0.00	0.00	
13	-963	-1082	6	1		0.00	22	0.00	0.00	0.00	0.00	
13	-1082	-1201	6	1		0.00	22	0.00	0.00	0.00	0.00	
13	-1201	113	6	1		0.00	22	0.00	0.00	0.00	0.00	
13	113	213	6	1		0.00	22	0.00	0.00	0.00	0.00	
13	213	313	6	1		0.00	22	0.00	0.00	0.00	0.00	
14	14	114	6	1		0.00	88	0.00	0.00	0.00	0.00	
14	114	314	6	1		0.00	88	0.00	0.00	0.00	0.00	
15	15	115	6	1		0.00	22	0.00	0.00	0.00	0.00	
15	115	315	6	1		0.00	22	0.00	0.00	0.00	0.00	
16	16	-964	6	1		0.00	88	0.00	0.00	0.00	0.00	
16	-964	-1083	6	1		0.00	88	0.00	0.00	0.00	0.00	
16	-1083	-1202	6	1		0.00	88	0.00	0.00	0.00	0.00	
16	-1202	116	6	1		0.00	88	0.00	0.00	0.00	0.00	
16	116	216	6	1		0.00	88	0.00	0.00	0.00	0.00	
16	216	316	6	1		0.00	88	0.00	0.00	0.00	0.00	
17	17	-969	6	1		0.00	22	0.00	0.00	0.00	0.00	
17	-969	-1088	6	1		0.00	22	0.00	0.00	0.00	0.00	
17	-1088	-1207	6	1		0.00	22	0.00	0.00	0.00	0.00	
17	-1207	117	6	1		0.00	22	0.00	0.00	0.00	0.00	
17	117	217	6	1		0.00	22	0.00	0.00	0.00	0.00	
17	217	317	6	1		0.00	22	0.00	0.00	0.00	0.00	
18	18	118	6	1		0.00	88	0.00	0.00	0.00	0.00	
18	118	318	6	1		0.00	88	0.00	0.00	0.00	0.00	
19	19	119	6	1		0.00	22	0.00	0.00	0.00	0.00	
19	119	319	6	1		0.00	22	0.00	0.00	0.00	0.00	
20	20	120	6	1		0.00	88	0.00	0.00	0.00	0.00	
20	120	220	6	1		0.00	88	0.00	0.00	0.00	0.00	
20	220	320	6	1		0.00	88	0.00	0.00	0.00	0.00	
21	21	-975	6	1		0.00	11	0.00	0.00	0.00	0.00	
21	-975	-1094	6	1		0.00	11	0.00	0.00	0.00	0.00	
21	-1094	-1213	6	1		0.00	11	0.00	0.00	0.00	0.00	

21	-1213	121	6	1		0.00	11	0.00	0.00	0.00	0.00	
21	121	221	6	1		0.00	11	0.00	0.00	0.00	0.00	
21	221	321	6	1		0.00	11	0.00	0.00	0.00	0.00	
22	22	122	6	1		0.00	77	0.00	0.00	0.00	0.00	
22	122	322	6	1		0.00	77	0.00	0.00	0.00	0.00	
23	23	-1001	6	1		0.00	33	0.00	0.00	0.00	0.00	
23	-1001	-1120	6	1		0.00	33	0.00	0.00	0.00	0.00	
23	-1120	-1240	6	1		0.00	33	0.00	0.00	0.00	0.00	
23	-1240	123	6	1		0.00	33	0.00	0.00	0.00	0.00	
23	123	323	6	1		0.00	33	0.00	0.00	0.00	0.00	
24	24	-1007	6	1		0.00	99	0.00	0.00	0.00	0.00	
24	-1007	-1126	6	1		0.00	99	0.00	0.00	0.00	0.00	
24	-1126	-1246	6	1		0.00	99	0.00	0.00	0.00	0.00	
24	-1246	124	6	1		0.00	99	0.00	0.00	0.00	0.00	
24	124	324	6	1		0.00	99	0.00	0.00	0.00	0.00	
101	103	102	2	1		0.00	33	10.00	10.00	0.00	0.00	
101	104	103	2	1		0.00	33	10.00	10.00	0.00	0.00	
102	106	105	4	1		0.00	22	0.00	0.00	0.00	0.00	
102	107	106	4	1		0.00	22	0.00	0.00	0.00	0.00	
102	108	107	4	1		0.00	22	0.00	0.00	0.00	0.00	
103	110	109	4	1		0.00	22	0.00	0.00	0.00	0.00	
103	111	110	4	1		0.00	22	0.00	0.00	0.00	0.00	
103	112	111	4	1		0.00	22	0.00	0.00	0.00	0.00	
104	114	113	4	1		0.00	22	0.00	0.00	0.00	0.00	
104	115	114	4	1		0.00	22	0.00	0.00	0.00	0.00	
104	116	115	4	1		0.00	22	0.00	0.00	0.00	0.00	
105	118	117	4	1		0.00	22	0.00	0.00	0.00	0.00	
105	119	118	4	1		0.00	22	0.00	0.00	0.00	0.00	
105	120	119	4	1		0.00	22	0.00	0.00	0.00	0.00	
106	122	121	4	1		0.00	33	5.00	5.00	0.00	0.00	
106	127	122	4	1		0.00	33	5.00	5.00	0.00	0.00	
109	106	102	4	1		0.00	33	0.00	0.00	0.00	0.00	
109	110	106	4	1		0.00	33	0.00	0.00	0.00	0.00	
109	114	110	4	1		0.00	33	0.00	0.00	0.00	0.00	
109	118	114	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
109	122	118	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
109	124	122	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
110	126	103	4	1		0.00	33	0.00	0.00	0.00	0.00	
110	103	107	4	1		0.00	33	0.00	0.00	0.00	0.00	
110	107	111	4	1		0.00	33	0.00	0.00	0.00	0.00	
110	111	115	4	1		0.00	33	0.00	0.00	0.00	0.00	
110	115	119	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
110	119	128	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
111	120	116	3	1		0.00	33	0.00	0.00	0.00	0.00	
111	129	120	3	1		0.00	33	0.00	0.00	0.00	0.00	
199	125	102	3	1		0.00	33	0.00	0.00	0.00	0.00	
208	205	-1444	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1444	-1447	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1447	-1450	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1450	-1453	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1453	-1456	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1456	209	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	209	-1461	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1461	-1464	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1464	-1467	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1467	-1470	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1470	-1473	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1473	213	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	213	-1478	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1478	-1481	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1481	-1484	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1484	-1487	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1487	217	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	217	-1492	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1492	-1495	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1495	-1498	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1498	-1501	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1501	-1504	5	1		0.00	33	0.00	0.00	0.00	0.00	
208	-1504	221	5	1		0.00	33	0.00	0.00	0.00	0.00	
211	208	204	5	1		0.00	33	0.00	0.00	0.00	0.00	
211	212	208	5	1		0.00	33	0.00	0.00	0.00	0.00	
211	216	212	5	1		0.00	33	0.00	0.00	0.00	0.00	
211	220	216	5	1		0.00	33	0.00	0.00	0.00	0.00	
211	222	220	5	1		0.00	33	0.00	0.00	0.00	0.00	
301	302	301	4	1		0.00	33	0.00	0.00	0.00	0.00	
301	303	302	4	1		0.00	33	0.00	0.00	0.00	0.00	
301	304	303	4	1		0.00	33	0.00	0.00	0.00	0.00	
302	306	305	4	1		0.00	22	0.00	0.00	0.00	0.00	
302	307	306	4	1		0.00	22	0.00	0.00	0.00	0.00	
302	308	307	4	1		0.00	22	0.00	0.00	0.00	0.00	
303	310	309	4	1		0.00	22	0.00	0.00	0.00	0.00	
303	311	310	4	1		0.00	22	0.00	0.00	0.00	0.00	
303	312	311	4	1		0.00	22	0.00	0.00	0.00	0.00	
304	314	313	4	1		0.00	22	0.00	0.00	0.00	0.00	
304	315	314	4	1		0.00	22	0.00	0.00	0.00	0.00	
304	316	315	4	1		0.00	22	0.00	0.00	0.00	0.00	

305	318	317	4	1		0.00	22	0.00	0.00	0.00	0.00	
305	319	318	4	1		0.00	22	0.00	0.00	0.00	0.00	
305	320	319	4	1		0.00	22	0.00	0.00	0.00	0.00	
306	322	321	4	1		0.00	33	10.00	10.00	0.00	0.00	
306	325	322	4	1		0.00	33	10.00	10.00	0.00	0.00	
307	323	324	4	1		0.00	33	0.00	0.00	0.00	0.00	
307	324	328	4	1		0.00	33	0.00	0.00	0.00	0.00	
308	301	305	3	1		0.00	33	0.00	0.00	0.00	0.00	
308	305	309	3	1		0.00	33	0.00	0.00	0.00	0.00	
308	309	313	3	1		0.00	33	0.00	0.00	0.00	0.00	
308	313	317	3	1		0.00	33	0.00	0.00	0.00	0.00	
308	317	321	3	1		0.00	33	0.00	0.00	0.00	0.00	
308	321	323	3	1		0.00	33	0.00	0.00	0.00	0.00	
309	306	302	4	1		0.00	33	0.00	0.00	0.00	0.00	
309	310	306	4	1		0.00	33	0.00	0.00	0.00	0.00	
309	314	310	4	1		0.00	33	0.00	0.00	0.00	0.00	
309	318	314	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
309	322	318	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
309	324	322	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
310	303	307	4	1		0.00	33	0.00	0.00	0.00	0.00	
310	307	311	4	1		0.00	33	0.00	0.00	0.00	0.00	
310	311	315	4	1		0.00	33	0.00	0.00	0.00	0.00	
310	315	319	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
310	319	326	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
311	308	304	3	1		0.00	33	0.00	0.00	0.00	0.00	
311	312	308	3	1		0.00	33	0.00	0.00	0.00	0.00	
311	316	312	3	1		0.00	33	0.00	0.00	0.00	0.00	
311	320	316	3	1		0.00	33	0.00	0.00	0.00	0.00	
311	327	320	3	1		0.00	33	0.00	0.00	0.00	0.00	

Elenco tipi elementi bidimensionali

Simbologia

Ang. att. = Angolo di attrito
Ang. dil. = Angolo di dilatanza
Coes. = Coesione
Comm. = Commento
Crit. = Numero del criterio di progetto
DP = Drucker-Prager
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
Mat. = Numero del materiale
Spess. = Spessore
Tb = Numero del tipo muro/elemento bidimensionale
Tipo = Tipologia
F = Membranale e Flessionale
M = Membranale
W-RC = Winkler resistente solo a compressione
W-RTC = Winkler resistente a trazione e a compressione
Uso = Utilizzo
P = Parete
S = Soletta/Platea

Tb	Comm.	Tipo	Uso	Spess. <cm>	Kt <daN/cmc>	DP	Ang. att. <grad>	Coes. <daN/mq>	Ang. dil. <grad>	Crit.	Mat.
1	platea 40cm	W-RTC	S	40.00	1.20	N	0.00	0.00	0.00	1	5
2	setti scala 25cm	F	P	25.00		N	0.00	0.00	0.00	2	7
3	pareti 20cm	F	P	20.00		N	0.00	0.00	0.00	1	7
4	solette elevazione	F	S	15.00		N	0.00	0.00	0.00	2	7

Elenco elementi bidimensionali

Simbologia

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

Bid.	Tb	FF	Dy1 <cm>	Dy2 <cm>	Kt <daN/cmc>	NN
107	2	33	5.00	5.00		-1015 -1014 -1133 -1134
107	2	33	5.00	5.00		-876 -875 -1016 -1017
107	2	33	5.00	5.00		-872 -871 -1012 -1013
107	2	33	5.00	5.00		-1014 -1013 -1132 -1133
107	2	33	5.00	5.00		-1253 -1252 -1354 -1355
107	2	33	5.00	5.00		-1013 -1012 -1131 -1132
107	2	33	5.00	5.00		-1252 -1251 -1353 -1354
107	2	33	5.00	5.00		-1019 -1018 -1137 -1138
107	2	33	5.00	5.00		-1258 -1257 -1359 -1360
107	2	33	5.00	5.00		-877 -876 -1017 -1018
107	2	33	5.00	5.00		-1018 -1017 -1136 -1137
107	2	33	5.00	5.00		-878 -877 -1018 -1019
107	2	33	5.00	5.00		-1136 -1135 -1255 -1256
107	2	33	5.00	5.00		-1135 -1134 -1254 -1255

107	2	33	5.00	5.00		-1138 -1137 -1257 -1258
107	2	33	5.00	5.00		-1137 -1136 -1256 -1257
107	2	33	5.00	5.00		-1132 -1131 -1251 -1252
107	2	33	5.00	5.00		-1016 -1015 -1134 -1135
107	2	33	5.00	5.00		-1257 -1256 -1358 -1359
107	2	33	5.00	5.00		-874 -873 -1014 -1015
107	2	33	5.00	5.00		-1017 -1016 -1135 -1136
107	2	33	5.00	5.00		-1256 -1255 -1357 -1358
107	2	33	5.00	5.00		-875 -874 -1015 -1016
107	2	33	5.00	5.00		-873 -872 -1013 -1014
107	2	33	5.00	5.00		-1134 -1133 -1253 -1254
107	2	33	5.00	5.00		-1255 -1254 -1356 -1357
107	2	33	5.00	5.00		-1133 -1132 -1252 -1253
107	2	33	5.00	5.00		-1254 -1253 -1355 -1356
112	3	33	0.00	0.00		24 -866 -1006 -1007
112	3	33	0.00	0.00		-864 -863 -1003 -1004
112	3	33	0.00	0.00		-1244 -1243 -1346 -1347
112	3	33	0.00	0.00		-1123 -1122 -1242 -1243
112	3	33	0.00	0.00		-1121 -1120 -1240 -1241
112	3	33	0.00	0.00		-1249 -1248 -1350 -1351
112	3	33	0.00	0.00		-1004 -1003 -1122 -1123
112	3	33	0.00	0.00		-1005 -1004 -1123 -1124
112	3	33	0.00	0.00		-1248 -1247 -1349 -1350
112	3	33	0.00	0.00		-1122 -1121 -1241 -1242
112	3	33	0.00	0.00		-1008 -1007 -1126 -1127
112	3	33	0.00	0.00		-1006 -1005 -1124 -1125
112	3	33	0.00	0.00		-868 -867 -1008 -1009
112	3	33	0.00	0.00		-1009 -1008 -1127 -1128
112	3	33	0.00	0.00		-1011 -1010 -1129 -1130
112	3	33	0.00	0.00		-1250 -1249 -1351 -1352
112	3	33	0.00	0.00		-869 -868 -1009 -1010
112	3	33	0.00	0.00		-1010 -1009 -1128 -1129
112	3	33	0.00	0.00		-1131 -1130 -1250 -1251
112	3	33	0.00	0.00		-1130 -1129 -1249 -1250
112	3	33	0.00	0.00		-1129 -1128 -1248 -1249
112	3	33	0.00	0.00		-1128 -1127 -1247 -1248
112	3	33	0.00	0.00		-1127 -1126 -1246 -1247
112	3	33	0.00	0.00		-866 -865 -1005 -1006
112	3	33	0.00	0.00		-1012 -1011 -1130 -1131
112	3	33	0.00	0.00		-871 -870 -1011 -1012
112	3	33	0.00	0.00		-865 -864 -1004 -1005
112	3	33	0.00	0.00		-1124 -1123 -1243 -1244
112	3	33	0.00	0.00		-1007 -1006 -1125 -1126
112	3	33	0.00	0.00		-867 24 -1007 -1008
112	3	33	0.00	0.00		-1002 -1001 -1120 -1121
112	3	33	0.00	0.00		-1243 -1242 -1345 -1346
112	3	33	0.00	0.00		-863 -862 -1002 -1003
112	3	33	0.00	0.00		-1003 -1002 -1121 -1122
112	3	33	0.00	0.00		-870 -869 -1010 -1011
112	3	33	0.00	0.00		-1242 -1241 -1344 -1345
112	3	33	0.00	0.00		-862 23 -1001 -1002
112	3	33	0.00	0.00		-1241 -1240 123 -1344
112	3	33	0.00	0.00		-1247 -1246 124 -1349
112	3	33	0.00	0.00		-1125 -1124 -1244 -1245
112	3	33	0.00	0.00		-1251 -1250 -1352 -1353
112	3	33	0.00	0.00		-1126 -1125 -1245 -1246
112	3	33	0.00	0.00		-1246 -1245 -1348 124
112	3	33	0.00	0.00		-1245 -1244 -1347 -1348
113	2	33	0.00	0.00		-979 -978 -1097 -1098
113	2	33	0.00	0.00		-983 -982 -1101 -1102
113	2	33	0.00	0.00		-1217 -1216 -1321 -1322
113	2	33	0.00	0.00		-1102 -1101 -1220 -1221
113	2	33	0.00	0.00		-1101 -1100 -1219 -1220
113	2	33	0.00	0.00		-1100 -1099 -1218 -1219
113	2	33	0.00	0.00		-1219 -1218 -1323 -1324
113	2	33	0.00	0.00		-1221 -1220 -1325 129
113	2	33	0.00	0.00		-729 -728 -978 -979
113	2	33	0.00	0.00		-1218 -1217 -1322 -1323
113	2	33	0.00	0.00		-733 -732 -982 -983
113	2	33	0.00	0.00		-981 -980 -1099 -1100
113	2	33	0.00	0.00		-727 -726 -976 -977
113	2	33	0.00	0.00		-1099 -1098 -1217 -1218
113	2	33	0.00	0.00		-732 -731 -981 -982
113	2	33	0.00	0.00		-1097 -1096 -1215 -1216
113	2	33	0.00	0.00		-982 -981 -1100 -1101
113	2	33	0.00	0.00		-731 -730 -980 -981
113	2	33	0.00	0.00		-1215 -1214 127 128
113	2	33	0.00	0.00		-1220 -1219 -1324 -1325
113	2	33	0.00	0.00		-1098 -1097 -1216 -1217
113	2	33	0.00	0.00		-980 -979 -1098 -1099
113	2	33	0.00	0.00		-1216 -1215 128 -1321
113	2	33	0.00	0.00		-977 -976 -1095 -1096
113	2	33	0.00	0.00		-1096 -1095 -1214 -1215
113	2	33	0.00	0.00		-728 -727 -977 -978
113	2	33	0.00	0.00		-978 -977 -1096 -1097
113	2	33	0.00	0.00		-730 -729 -979 -980

114	2	33	0.00	0.00		-1105 -1102 -1221 -1224
114	2	33	0.00	0.00		-754 -733 -983 -986
114	2	33	0.00	0.00		-1000 -997 -1116 -1119
114	2	33	0.00	0.00		-1019 -1000 -1119 -1138
114	2	33	0.00	0.00		-878 -859 -1000 -1019
114	2	33	0.00	0.00		-1119 -1116 -1236 -1239
114	2	33	0.00	0.00		-1224 -1221 129 -1328
114	2	33	0.00	0.00		-1111 -1108 -1227 -1230
114	2	33	0.00	0.00		-986 -983 -1102 -1105
114	2	33	0.00	0.00		-992 -989 -1108 -1111
114	2	33	0.00	0.00		-1236 -1233 -1337 -1340
114	2	33	0.00	0.00		-1258 -1239 -1343 -1360
114	2	33	0.00	0.00		-859 -838 -997 -1000
114	2	33	0.00	0.00		-1227 -1224 -1328 -1331
114	2	33	0.00	0.00		-1233 -1230 -1334 -1337
114	2	33	0.00	0.00		-775 -754 -986 -989
114	2	33	0.00	0.00		-796 -775 -989 -992
114	2	33	0.00	0.00		-1230 -1227 -1331 -1334
114	2	33	0.00	0.00		-1108 -1105 -1224 -1227
114	2	33	0.00	0.00		-1138 -1119 -1239 -1258
114	2	33	0.00	0.00		-989 -986 -1105 -1108
114	2	33	0.00	0.00		-1239 -1236 -1340 -1343
115	3	33	0.00	0.00		-145 -124 -927 -929
115	3	33	0.00	0.00		-1167 -1165 -1280 -1282
115	3	33	0.00	0.00		-929 -927 -1046 -1048
115	3	33	0.00	0.00		-1169 -1167 -1282 -1284
115	3	33	0.00	0.00		-968 -967 -1086 -1087
115	3	33	0.00	0.00		-1206 -1205 -1314 -1315
115	3	33	0.00	0.00		-1078 -1076 -1195 -1197
115	3	33	0.00	0.00		-574 -553 -967 -968
115	3	33	0.00	0.00		-1080 -1078 -1197 -1199
115	3	33	0.00	0.00		-931 -929 -1048 -1050
115	3	33	0.00	0.00		-1070 -1068 -1187 -1189
115	3	33	0.00	0.00		-1082 -1080 -1199 -1201
115	3	33	0.00	0.00		-973 -972 -1091 -1092
115	3	33	0.00	0.00		-553 -532 -966 -967
115	3	33	0.00	0.00		-1074 -1072 -1191 -1193
115	3	33	0.00	0.00		-1072 -1070 -1189 -1191
115	3	33	0.00	0.00		-1212 -1211 -1319 -1320
115	3	33	0.00	0.00		-935 -933 -1052 -1054
115	3	33	0.00	0.00		-1173 -1171 -1286 -1288
115	3	33	0.00	0.00		-1211 -1210 -1318 -1319
115	3	33	0.00	0.00		-1076 -1074 -1193 -1195
115	3	33	0.00	0.00		-1175 -1173 -1288 -1290
115	3	33	0.00	0.00		-208 -187 -933 -935
115	3	33	0.00	0.00		-1084 -1082 -1201 -1203
115	3	33	0.00	0.00		-757 -736 -984 -987
115	3	33	0.00	0.00		-987 -984 -1103 -1106
115	3	33	0.00	0.00		-696 -675 -973 -974
115	3	33	0.00	0.00		-984 -975 -1094 -1103
115	3	33	0.00	0.00		-1222 -1213 121 -1326
115	3	33	0.00	0.00		-967 -966 -1085 -1086
115	3	33	0.00	0.00		-1205 -1204 -1313 -1314
115	3	33	0.00	0.00		-1068 -1066 -1185 -1187
115	3	33	0.00	0.00		-1225 -1222 -1326 -1329
115	3	33	0.00	0.00		-1064 -1062 -1181 -1183
115	3	33	0.00	0.00		-974 -973 -1092 -1093
115	3	33	0.00	0.00		-1060 -1058 -1177 -1179
115	3	33	0.00	0.00		-1203 -1201 113 -1312
115	3	33	0.00	0.00		-963 -961 -1080 -1082
115	3	33	0.00	0.00		-1201 -1199 -1310 113
115	3	33	0.00	0.00		-473 -452 -959 -961
115	3	33	0.00	0.00		-961 -959 -1078 -1080
115	3	33	0.00	0.00		-1199 -1197 -1308 -1310
115	3	33	0.00	0.00		-452 -431 -957 -959
115	3	33	0.00	0.00		-959 -957 -1076 -1078
115	3	33	0.00	0.00		-1197 -1195 -1306 -1308
115	3	33	0.00	0.00		-1066 -1064 -1183 -1185
115	3	33	0.00	0.00		-933 -931 -1050 -1052
115	3	33	0.00	0.00		-1171 -1169 -1284 -1286
115	3	33	0.00	0.00		-410 -389 -953 -955
115	3	33	0.00	0.00		-955 -953 -1072 -1074
115	3	33	0.00	0.00		-1193 -1191 -1302 -1304
115	3	33	0.00	0.00		-389 9 -951 -953
115	3	33	0.00	0.00		-953 -951 -1070 -1072
115	3	33	0.00	0.00		-1191 -1189 109 -1302
115	3	33	0.00	0.00		-951 -949 -1068 -1070
115	3	33	0.00	0.00		-1189 -1187 -1300 109
115	3	33	0.00	0.00		-351 -330 -947 -949
115	3	33	0.00	0.00		-949 -947 -1066 -1068
115	3	33	0.00	0.00		-1187 -1185 -1298 -1300
115	3	33	0.00	0.00		-947 -945 -1064 -1066
115	3	33	0.00	0.00		-1062 -1060 -1179 -1181
115	3	33	0.00	0.00		-309 -288 -943 -945
115	3	33	0.00	0.00		-945 -943 -1062 -1064
115	3	33	0.00	0.00		-675 -654 -972 -973

115	3	33	0.00	0.00		-288 -267 -941 -943
115	3	33	0.00	0.00		-943 -941 -1060 -1062
115	3	33	0.00	0.00		-654 -633 -971 -972
115	3	33	0.00	0.00		-972 -971 -1090 -1091
115	3	33	0.00	0.00		-1210 -1209 -1317 -1318
115	3	33	0.00	0.00		-633 -612 -970 -971
115	3	33	0.00	0.00		-971 -970 -1089 -1090
115	3	33	0.00	0.00		-431 -410 -955 -957
115	3	33	0.00	0.00		-957 -955 -1074 -1076
115	3	33	0.00	0.00		-1195 -1193 -1304 -1306
115	3	33	0.00	0.00		-969 -968 -1087 -1088
115	3	33	0.00	0.00		-1207 -1206 -1315 117
115	3	33	0.00	0.00		-939 -937 -1056 -1058
115	3	33	0.00	0.00		-1177 -1175 -1290 105
115	3	33	0.00	0.00		-229 -208 -935 -937
115	3	33	0.00	0.00		-937 -935 -1054 -1056
115	3	33	0.00	0.00		-1092 -1091 -1210 -1211
115	3	33	0.00	0.00		5 -229 -937 -939
115	3	33	0.00	0.00		-124 1 -919 -927
115	3	33	0.00	0.00		-532 -511 -965 -966
115	3	33	0.00	0.00		-966 -965 -1084 -1085
115	3	33	0.00	0.00		-1204 -1203 -1312 -1313
115	3	33	0.00	0.00		-511 13 -963 -965
115	3	33	0.00	0.00		-965 -963 -1082 -1084
115	3	33	0.00	0.00		-1048 -1046 -1165 -1167
115	3	33	0.00	0.00		-1183 -1181 -1294 -1296
115	3	33	0.00	0.00		-1120 -1117 -1237 -1240
115	3	33	0.00	0.00		-1001 -998 -1117 -1120
115	3	33	0.00	0.00		-1240 -1237 -1341 123
115	3	33	0.00	0.00		-841 -820 -995 -998
115	3	33	0.00	0.00		-998 -995 -1114 -1117
115	3	33	0.00	0.00		-1090 -1089 -1208 -1209
115	3	33	0.00	0.00		21 -696 -974 -975
115	3	33	0.00	0.00		17 -574 -968 -969
115	3	33	0.00	0.00		13 -473 -961 -963
115	3	33	0.00	0.00		9 -351 -949 -951
115	3	33	0.00	0.00		-166 -145 -929 -931
115	3	33	0.00	0.00		-1228 -1225 -1329 -1332
115	3	33	0.00	0.00		-1237 -1234 -1338 -1341
115	3	33	0.00	0.00		-1046 -1038 -1157 -1165
115	3	33	0.00	0.00		-1094 -1093 -1212 -1213
115	3	33	0.00	0.00		-1093 -1092 -1211 -1212
115	3	33	0.00	0.00		-1181 -1179 -1292 -1294
115	3	33	0.00	0.00		-1091 -1090 -1209 -1210
115	3	33	0.00	0.00		-1208 -1207 117 -1316
115	3	33	0.00	0.00		-927 -919 -1038 -1046
115	3	33	0.00	0.00		-1165 -1157 101 -1280
115	3	33	0.00	0.00		-975 -974 -1093 -1094
115	3	33	0.00	0.00		-1213 -1212 -1320 121
115	3	33	0.00	0.00		-1050 -1048 -1167 -1169
115	3	33	0.00	0.00		-267 5 -939 -941
115	3	33	0.00	0.00		-941 -939 -1058 -1060
115	3	33	0.00	0.00		-995 -993 -1112 -1114
115	3	33	0.00	0.00		-1117 -1114 -1234 -1237
115	3	33	0.00	0.00		-1114 -1112 -1231 -1234
115	3	33	0.00	0.00		-736 21 -975 -984
115	3	33	0.00	0.00		-990 -987 -1106 -1109
115	3	33	0.00	0.00		-1112 -1109 -1228 -1231
115	3	33	0.00	0.00		-1109 -1106 -1225 -1228
115	3	33	0.00	0.00		23 -841 -998 -1001
115	3	33	0.00	0.00		-778 -757 -987 -990
115	3	33	0.00	0.00		-1054 -1052 -1171 -1173
115	3	33	0.00	0.00		-1052 -1050 -1169 -1171
115	3	33	0.00	0.00		-1085 -1084 -1203 -1204
115	3	33	0.00	0.00		-970 -969 -1088 -1089
115	3	33	0.00	0.00		-1058 -1056 -1175 -1177
115	3	33	0.00	0.00		-1056 -1054 -1173 -1175
115	3	33	0.00	0.00		-1088 -1087 -1206 -1207
115	3	33	0.00	0.00		-1087 -1086 -1205 -1206
115	3	33	0.00	0.00		-1086 -1085 -1204 -1205
115	3	33	0.00	0.00		-1185 -1183 -1296 -1298
115	3	33	0.00	0.00		-993 -990 -1109 -1112
115	3	33	0.00	0.00		-1089 -1088 -1207 -1208
115	3	33	0.00	0.00		-1179 -1177 105 -1292
115	3	33	0.00	0.00		-1234 -1231 -1335 -1338
115	3	33	0.00	0.00		-330 -309 -945 -947
115	3	33	0.00	0.00		-820 -799 -993 -995
115	3	33	0.00	0.00		-1231 -1228 -1332 -1335
115	3	33	0.00	0.00		-187 -166 -931 -933
115	3	33	0.00	0.00		-612 17 -969 -970
115	3	33	0.00	0.00		-1106 -1103 -1222 -1225
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704	1	33	0.00	0.00	1.20	-553 -574 -575 -554
704	1	33	0.00	0.00	1.20	-554 -575 -576 -555
704	1	33	0.00	0.00	1.20	-555 -576 -577 -556
704	1	33	0.00	0.00	1.20	-556 -577 -578 -557
704	1	33	0.00	0.00	1.20	-557 -578 -579 -558
704	1	33	0.00	0.00	1.20	-558 -579 -580 -559
704	1	33	0.00	0.00	1.20	-574 17 -595 -575
704	1	33	0.00	0.00	1.20	-783 -804 -805 -784
704	1	33	0.00	0.00	1.20	-799 -820 -821 -800
704	1	33	0.00	0.00	1.20	-800 -821 -822 -801
704	1	33	0.00	0.00	1.20	-801 -822 -823 -802
704	1	33	0.00	0.00	1.20	-802 -823 -824 -803
704	1	33	0.00	0.00	1.20	-803 -824 -825 -804
704	1	33	0.00	0.00	1.20	-804 -825 -826 -805
704	1	33	0.00	0.00	1.20	-783 -762 -761 -782
704	1	33	0.00	0.00	1.20	-782 -761 -760 -781
704	1	33	0.00	0.00	1.20	-781 -760 -759 -780
704	1	33	0.00	0.00	1.20	-780 -759 -758 -779
704	1	33	0.00	0.00	1.20	-779 -758 -757 -778
704	1	33	0.00	0.00	1.20	-763 -742 -741 -762
704	1	33	0.00	0.00	1.20	-762 -741 -740 -761
704	1	33	0.00	0.00	1.20	-761 -740 -739 -760
704	1	33	0.00	0.00	1.20	-760 -739 -738 -759
704	1	33	0.00	0.00	1.20	-759 -738 -737 -758
704	1	33	0.00	0.00	1.20	-758 -737 -736 -757
704	1	33	0.00	0.00	1.20	-717 -737 -738 -718
704	1	33	0.00	0.00	1.20	-718 -738 -739 -719
704	1	33	0.00	0.00	1.20	-719 -739 -740 -720
704	1	33	0.00	0.00	1.20	-720 -740 -741 -721
704	1	33	0.00	0.00	1.20	-721 -741 -742 22
704	1	33	0.00	0.00	1.20	-563 -584 -585 -564
704	1	33	0.00	0.00	1.20	-580 18 -600 -581

704	1	33	0.00	0.00	1.20	-581 -600 -601 -582
704	1	33	0.00	0.00	1.20	-582 -601 -602 -583
704	1	33	0.00	0.00	1.20	-583 -602 -603 -584
704	1	33	0.00	0.00	1.20	-584 -603 -604 -585
704	1	33	0.00	0.00	1.20	-523 -522 -543 -544
704	1	33	0.00	0.00	1.20	-544 -543 -564 -565
704	1	33	0.00	0.00	1.20	-565 -564 -585 -586
704	1	33	0.00	0.00	1.20	-586 -585 -604 19
704	1	33	0.00	0.00	1.20	-586 -587 -566 -565
704	1	33	0.00	0.00	1.20	-565 -566 -545 -544
704	1	33	0.00	0.00	1.20	-544 -545 -524 -523
704	1	33	0.00	0.00	1.20	-523 -524 -504 15
704	1	33	0.00	0.00	1.20	-605 -606 -588 -587
704	1	33	0.00	0.00	1.20	-587 -588 -567 -566
704	1	33	0.00	0.00	1.20	-566 -567 -546 -545
704	1	33	0.00	0.00	1.20	-545 -546 -525 -524
704	1	33	0.00	0.00	1.20	-524 -525 -505 -504
704	1	33	0.00	0.00	1.20	-606 -607 -589 -588
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704	1	33	0.00	0.00	1.20	-809 -830 -831 -810
704	1	33	0.00	0.00	1.20	-870 -851 -850 -869
704	1	33	0.00	0.00	1.20	-869 -850 -849 -868
704	1	33	0.00	0.00	1.20	-868 -849 -848 -867
704	1	33	0.00	0.00	1.20	-867 -848 -847 24
704	1	33	0.00	0.00	1.20	-852 -831 -830 -851
704	1	33	0.00	0.00	1.20	-851 -830 -829 -850
704	1	33	0.00	0.00	1.20	-850 -829 -828 -849
704	1	33	0.00	0.00	1.20	-849 -828 -827 -848
704	1	33	0.00	0.00	1.20	-848 -827 -826 -847
704	1	33	0.00	0.00	1.20	-852 -853 -832 -831
704	1	33	0.00	0.00	1.20	-810 -811 -790 -789
704	1	33	0.00	0.00	1.20	-768 -769 -748 -747
704	1	33	0.00	0.00	1.20	-728 -749 -750 -729
704	1	33	0.00	0.00	1.20	-729 -750 -751 -730
704	1	33	0.00	0.00	1.20	-730 -751 -752 -731
704	1	33	0.00	0.00	1.20	-793 -772 -771 -792
704	1	33	0.00	0.00	1.20	-792 -771 -770 -791
704	1	33	0.00	0.00	1.20	-791 -770 -769 -790
704	1	33	0.00	0.00	1.20	-773 -752 -751 -772
704	1	33	0.00	0.00	1.20	-772 -751 -750 -771
704	1	33	0.00	0.00	1.20	-771 -750 -749 -770
704	1	33	0.00	0.00	1.20	-770 -749 -748 -769
704	1	33	0.00	0.00	1.20	-791 -812 -813 -792
704	1	33	0.00	0.00	1.20	-792 -813 -814 -793
704	1	33	0.00	0.00	1.20	-793 -814 -815 -794
704	1	33	0.00	0.00	1.20	-811 -832 -833 -812
704	1	33	0.00	0.00	1.20	-812 -833 -834 -813
704	1	33	0.00	0.00	1.20	-813 -834 -835 -814
704	1	33	0.00	0.00	1.20	-814 -835 -836 -815
704	1	33	0.00	0.00	1.20	-875 -856 -855 -874
704	1	33	0.00	0.00	1.20	-874 -855 -854 -873
704	1	33	0.00	0.00	1.20	-873 -854 -853 -872
704	1	33	0.00	0.00	1.20	-857 -836 -835 -856
704	1	33	0.00	0.00	1.20	-856 -835 -834 -855
704	1	33	0.00	0.00	1.20	-855 -834 -833 -854
704	1	33	0.00	0.00	1.20	-854 -833 -832 -853
704	1	33	0.00	0.00	1.20	-857 -858 -837 -836
704	1	33	0.00	0.00	1.20	-877 -878 -859 -858
704	1	33	0.00	0.00	1.20	-858 -859 -838 -837
704	1	33	0.00	0.00	1.20	-859 -860 -839 -838
704	1	33	0.00	0.00	1.20	-837 -816 -815 -836
704	1	33	0.00	0.00	1.20	-817 -796 -795 -816
704	1	33	0.00	0.00	1.20	-816 -795 -794 -815
704	1	33	0.00	0.00	1.20	-817 -818 -797 -796
704	1	33	0.00	0.00	1.20	-795 -774 -773 -794
704	1	33	0.00	0.00	1.20	-775 -754 -753 -774
704	1	33	0.00	0.00	1.20	-496 -497 -477 -476
704	1	33	0.00	0.00	1.20	-476 -477 -456 -455
704	1	33	0.00	0.00	1.20	-455 -456 -435 -434
704	1	33	0.00	0.00	1.20	-434 -435 -414 -413
704	1	33	0.00	0.00	1.20	23 -862 -842 -841
704	1	33	0.00	0.00	1.20	-865 -866 -846 -845
704	1	33	0.00	0.00	1.20	-845 -846 -825 -824
704	1	33	0.00	0.00	1.20	-866 24 -847 -846
704	1	33	0.00	0.00	1.20	-846 -847 -826 -825
704	1	33	0.00	0.00	1.20	-779 -800 -801 -780
704	1	33	0.00	0.00	1.20	-780 -801 -802 -781
704	1	33	0.00	0.00	1.20	-781 -802 -803 -782
704	1	33	0.00	0.00	1.20	-782 -803 -804 -783
704	1	33	0.00	0.00	1.20	-778 -799 -800 -779
704	1	33	0.00	0.00	1.20	-784 -763 -762 -783
704	1	33	0.00	0.00	1.20	21 -736 -737 -717
704	1	33	0.00	0.00	1.20	22 -742 -743 -722
704	1	33	0.00	0.00	1.20	-789 -768 -767 -788
704	1	33	0.00	0.00	1.20	-784 -805 -806 -785
704	1	33	0.00	0.00	1.20	-871 -852 -851 -870

704	1	33	0.00	0.00	1.20	-871 -872 -853 -852
704	1	33	0.00	0.00	1.20	-831 -832 -811 -810
704	1	33	0.00	0.00	1.20	-789 -790 -769 -768
704	1	33	0.00	0.00	1.20	-747 -748 -727 -726
704	1	33	0.00	0.00	1.20	-727 -748 -749 -728
704	1	33	0.00	0.00	1.20	-794 -773 -772 -793
704	1	33	0.00	0.00	1.20	-790 -811 -812 -791
704	1	33	0.00	0.00	1.20	-876 -857 -856 -875
704	1	33	0.00	0.00	1.20	-876 -877 -858 -857
704	1	33	0.00	0.00	1.20	-878 -879 -860 -859
704	1	33	0.00	0.00	1.20	-838 -817 -816 -837
704	1	33	0.00	0.00	1.20	-838 -839 -818 -817
704	1	33	0.00	0.00	1.20	-796 -775 -774 -795
704	1	33	0.00	0.00	1.20	-731 -752 -753 -732
704	1	33	0.00	0.00	1.20	-734 -733 -754 -755
704	1	33	0.00	0.00	1.20	-797 -776 -775 -796
704	1	33	0.00	0.00	1.20	-722 -743 -744 -723
704	1	33	0.00	0.00	1.20	-723 -744 -745 -724
704	1	33	0.00	0.00	1.20	-724 -745 -746 -725
704	1	33	0.00	0.00	1.20	-725 -746 -747 -726
704	1	33	0.00	0.00	1.20	-788 -767 -766 -787
704	1	33	0.00	0.00	1.20	-787 -766 -765 -786
704	1	33	0.00	0.00	1.20	-786 -765 -764 -785
704	1	33	0.00	0.00	1.20	-785 -764 -763 -784
704	1	33	0.00	0.00	1.20	-768 -747 -746 -767
704	1	33	0.00	0.00	1.20	-767 -746 -745 -766
704	1	33	0.00	0.00	1.20	-766 -745 -744 -765
704	1	33	0.00	0.00	1.20	-765 -744 -743 -764
704	1	33	0.00	0.00	1.20	-764 -743 -742 -763
704	1	33	0.00	0.00	1.20	-785 -806 -807 -786
704	1	33	0.00	0.00	1.20	-786 -807 -808 -787
704	1	33	0.00	0.00	1.20	-787 -808 -809 -788
704	1	33	0.00	0.00	1.20	-788 -809 -810 -789
704	1	33	0.00	0.00	1.20	-805 -826 -827 -806
704	1	33	0.00	0.00	1.20	-806 -827 -828 -807
704	1	33	0.00	0.00	1.20	-807 -828 -829 -808
704	1	33	0.00	0.00	1.20	-401 -402 -382 11
704	1	33	0.00	0.00	1.20	-504 -505 -487 -486
704	1	33	0.00	0.00	1.20	-486 -487 -466 -465
704	1	33	0.00	0.00	1.20	-465 -466 -445 -444
704	1	33	0.00	0.00	1.20	-444 -445 -424 -423
704	1	33	0.00	0.00	1.20	-423 -424 -403 -402
704	1	33	0.00	0.00	1.20	-402 -403 -383 -382
704	1	33	0.00	0.00	1.20	-505 -506 -488 -487
704	1	33	0.00	0.00	1.20	-487 -488 -467 -466
704	1	33	0.00	0.00	1.20	-466 -467 -446 -445
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704	1	33	0.00	0.00	1.20	-424 -425 -404 -403
704	1	33	0.00	0.00	1.20	-757 -756 -777 -778
704	1	33	0.00	0.00	1.20	-107 -108 -88 -87
704	1	33	0.00	0.00	1.20	-108 -109 -89 -88
704	1	33	0.00	0.00	1.20	-109 -110 -90 -89
704	1	33	0.00	0.00	1.20	-110 -111 -91 -90
704	1	33	0.00	0.00	1.20	-111 2 -92 -91
704	1	33	0.00	0.00	1.20	-112 -113 -94 -93
704	1	33	0.00	0.00	1.20	-113 -114 -95 -94
704	1	33	0.00	0.00	1.20	-114 -115 -96 -95
704	1	33	0.00	0.00	1.20	-115 -116 -97 -96
704	1	33	0.00	0.00	1.20	-117 -118 -100 -99
704	1	33	0.00	0.00	1.20	-118 -119 -101 -100
704	1	33	0.00	0.00	1.20	-119 -120 -102 -101
704	1	33	0.00	0.00	1.20	-121 4 -104 -103
704	1	33	0.00	0.00	1.20	-71 -72 -58 -57
704	1	33	0.00	0.00	1.20	-57 -58 -44 -43
704	1	33	0.00	0.00	1.20	-43 -44 -30 -29
704	1	33	0.00	0.00	1.20	-29 -30 -16 -15
704	1	33	0.00	0.00	1.20	-93 -94 -73 -72
704	1	33	0.00	0.00	1.20	-72 -73 -59 -58
704	1	33	0.00	0.00	1.20	-58 -59 -45 -44
704	1	33	0.00	0.00	1.20	-44 -45 -31 -30
704	1	33	0.00	0.00	1.20	-30 -31 -17 -16
704	1	33	0.00	0.00	1.20	-94 -95 -74 -73
704	1	33	0.00	0.00	1.20	-73 -74 -60 -59
704	1	33	0.00	0.00	1.20	-59 -60 -46 -45
704	1	33	0.00	0.00	1.20	-45 -46 -32 -31
704	1	33	0.00	0.00	1.20	-31 -32 -18 -17
704	1	33	0.00	0.00	1.20	-95 -96 -75 -74
704	1	33	0.00	0.00	1.20	-74 -75 -61 -60
704	1	33	0.00	0.00	1.20	-60 -61 -47 -46
704	1	33	0.00	0.00	1.20	-46 -47 -33 -32
704	1	33	0.00	0.00	1.20	-32 -33 -19 -18
704	1	33	0.00	0.00	1.20	-96 -97 -76 -75
704	1	33	0.00	0.00	1.20	-75 -76 -62 -61
704	1	33	0.00	0.00	1.20	-61 -62 -48 -47
704	1	33	0.00	0.00	1.20	-47 -48 -34 -33
704	1	33	0.00	0.00	1.20	-33 -34 -20 -19

704	1	33	0.00	0.00	1.20	-2 -16 -17 -3
704	1	33	0.00	0.00	1.20	-3 -17 -18 -4
704	1	33	0.00	0.00	1.20	-4 -18 -19 -5
704	1	33	0.00	0.00	1.20	-5 -19 -20 -6
704	1	33	0.00	0.00	1.20	-35 -34 -48 -49
704	1	33	0.00	0.00	1.20	-49 -48 -62 -63
704	1	33	0.00	0.00	1.20	-63 -62 -76 -77
704	1	33	0.00	0.00	1.20	-77 -76 -97 -98
704	1	33	0.00	0.00	1.20	-8 -22 -23 -9
704	1	33	0.00	0.00	1.20	-9 -23 -24 -10
704	1	33	0.00	0.00	1.20	-10 -24 -25 -11
704	1	33	0.00	0.00	1.20	-39 -38 -52 -53
704	1	33	0.00	0.00	1.20	-53 -52 -66 -67
704	1	33	0.00	0.00	1.20	-67 -66 -80 -81
704	1	33	0.00	0.00	1.20	-81 -80 -101 -102
704	1	33	0.00	0.00	1.20	-24 -23 -37 -38
704	1	33	0.00	0.00	1.20	-38 -37 -51 -52
704	1	33	0.00	0.00	1.20	-52 -51 -65 -66
704	1	33	0.00	0.00	1.20	-66 -65 -79 -80
704	1	33	0.00	0.00	1.20	-80 -79 -100 -101
704	1	33	0.00	0.00	1.20	-23 -22 -36 -37
704	1	33	0.00	0.00	1.20	-37 -36 -50 -51
704	1	33	0.00	0.00	1.20	-51 -50 -64 -65
704	1	33	0.00	0.00	1.20	-65 -64 -78 -79
704	1	33	0.00	0.00	1.20	-79 -78 -99 -100
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704	1	33	0.00	0.00	1.20	-36 -35 -49 -50
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704	1	33	0.00	0.00	1.20	-78 -77 -98 -99
704	1	33	0.00	0.00	1.20	-81 -82 -68 -67
704	1	33	0.00	0.00	1.20	-67 -68 -54 -53
704	1	33	0.00	0.00	1.20	-53 -54 -40 -39
704	1	33	0.00	0.00	1.20	-39 -40 -26 -25
704	1	33	0.00	0.00	1.20	-103 -104 -83 -82
704	1	33	0.00	0.00	1.20	-82 -83 -69 -68
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704	1	33	0.00	0.00	1.20	-54 -55 -41 -40
704	1	33	0.00	0.00	1.20	-40 -41 -27 -26
704	1	33	0.00	0.00	1.20	-12 -26 -27 -13
704	1	33	0.00	0.00	1.20	-42 -41 -55 -56
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704	1	33	0.00	0.00	1.20	-124 -123 -144 -145
704	1	33	0.00	0.00	1.20	-145 -144 -165 -166
704	1	33	0.00	0.00	1.20	-166 -165 -186 -187
704	1	33	0.00	0.00	1.20	-187 -186 -207 -208
704	1	33	0.00	0.00	1.20	-208 -207 -228 -229
704	1	33	0.00	0.00	1.20	-229 -228 -249 5
704	1	33	0.00	0.00	1.20	-229 -230 -209 -208
704	1	33	0.00	0.00	1.20	-208 -209 -188 -187
704	1	33	0.00	0.00	1.20	-187 -188 -167 -166
704	1	33	0.00	0.00	1.20	-166 -167 -146 -145
704	1	33	0.00	0.00	1.20	-145 -146 -125 -124
704	1	33	0.00	0.00	1.20	-124 -125 -107 1
704	1	33	0.00	0.00	1.20	-250 -251 -231 -230
704	1	33	0.00	0.00	1.20	-230 -231 -210 -209
704	1	33	0.00	0.00	1.20	-209 -210 -189 -188
704	1	33	0.00	0.00	1.20	-188 -189 -168 -167
704	1	33	0.00	0.00	1.20	-167 -168 -147 -146
704	1	33	0.00	0.00	1.20	-146 -147 -126 -125
704	1	33	0.00	0.00	1.20	-125 -126 -108 -107
704	1	33	0.00	0.00	1.20	-251 -252 -232 -231
704	1	33	0.00	0.00	1.20	-231 -232 -211 -210
704	1	33	0.00	0.00	1.20	-210 -211 -190 -189
704	1	33	0.00	0.00	1.20	-189 -190 -169 -168
704	1	33	0.00	0.00	1.20	-168 -169 -148 -147
704	1	33	0.00	0.00	1.20	-147 -148 -127 -126
704	1	33	0.00	0.00	1.20	-126 -127 -109 -108
704	1	33	0.00	0.00	1.20	-252 -253 -233 -232
704	1	33	0.00	0.00	1.20	-232 -233 -212 -211
704	1	33	0.00	0.00	1.20	-211 -212 -191 -190
704	1	33	0.00	0.00	1.20	-190 -191 -170 -169
704	1	33	0.00	0.00	1.20	-169 -170 -149 -148
704	1	33	0.00	0.00	1.20	-148 -149 -128 -127
704	1	33	0.00	0.00	1.20	-127 -128 -110 -109
704	1	33	0.00	0.00	1.20	-253 -254 -234 -233
704	1	33	0.00	0.00	1.20	-233 -234 -213 -212
704	1	33	0.00	0.00	1.20	-212 -213 -192 -191
704	1	33	0.00	0.00	1.20	-191 -192 -171 -170
704	1	33	0.00	0.00	1.20	-170 -171 -150 -149
704	1	33	0.00	0.00	1.20	-149 -150 -129 -128
704	1	33	0.00	0.00	1.20	-128 -129 -111 -110
704	1	33	0.00	0.00	1.20	-254 6 -235 -234
704	1	33	0.00	0.00	1.20	-234 -235 -214 -213

704	1	33	0.00	0.00	1.20	-213 -214 -193 -192
704	1	33	0.00	0.00	1.20	-192 -193 -172 -171
704	1	33	0.00	0.00	1.20	-171 -172 -151 -150
704	1	33	0.00	0.00	1.20	-150 -151 -130 -129
704	1	33	0.00	0.00	1.20	-129 -130 2 -111
704	1	33	0.00	0.00	1.20	-235 -236 -215 -214
704	1	33	0.00	0.00	1.20	-214 -215 -194 -193
704	1	33	0.00	0.00	1.20	-193 -194 -173 -172
704	1	33	0.00	0.00	1.20	-172 -173 -152 -151
704	1	33	0.00	0.00	1.20	-151 -152 -131 -130
704	1	33	0.00	0.00	1.20	-130 -131 -112 2
704	1	33	0.00	0.00	1.20	-255 -256 -237 -236
704	1	33	0.00	0.00	1.20	-236 -237 -216 -215
704	1	33	0.00	0.00	1.20	-215 -216 -195 -194
704	1	33	0.00	0.00	1.20	-194 -195 -174 -173
704	1	33	0.00	0.00	1.20	-173 -174 -153 -152
704	1	33	0.00	0.00	1.20	-152 -153 -132 -131
704	1	33	0.00	0.00	1.20	-131 -132 -113 -112
704	1	33	0.00	0.00	1.20	-256 -257 -238 -237
704	1	33	0.00	0.00	1.20	-237 -238 -217 -216
704	1	33	0.00	0.00	1.20	-216 -217 -196 -195
704	1	33	0.00	0.00	1.20	-195 -196 -175 -174
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704	1	33	0.00	0.00	1.20	-153 -154 -133 -132
704	1	33	0.00	0.00	1.20	-132 -133 -114 -113
704	1	33	0.00	0.00	1.20	-257 -258 -239 -238
704	1	33	0.00	0.00	1.20	-238 -239 -218 -217
704	1	33	0.00	0.00	1.20	-217 -218 -197 -196
704	1	33	0.00	0.00	1.20	-196 -197 -176 -175
704	1	33	0.00	0.00	1.20	-175 -176 -155 -154
704	1	33	0.00	0.00	1.20	-154 -155 -134 -133
704	1	33	0.00	0.00	1.20	-133 -134 -115 -114
704	1	33	0.00	0.00	1.20	-258 -259 -240 -239
704	1	33	0.00	0.00	1.20	-239 -240 -219 -218
704	1	33	0.00	0.00	1.20	-218 -219 -198 -197
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704	1	33	0.00	0.00	1.20	-157 -156 -177 -178
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704	1	33	0.00	0.00	1.20	-241 -242 -221 -220
704	1	33	0.00	0.00	1.20	-220 -221 -200 -199
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704	1	33	0.00	0.00	1.20	-260 -261 -243 -242
704	1	33	0.00	0.00	1.20	-242 -243 -222 -221
704	1	33	0.00	0.00	1.20	-221 -222 -201 -200
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704	1	33	0.00	0.00	1.20	-137 -138 -118 -117
704	1	33	0.00	0.00	1.20	-261 -262 -244 -243
704	1	33	0.00	0.00	1.20	-243 -244 -223 -222
704	1	33	0.00	0.00	1.20	-222 -223 -202 -201
704	1	33	0.00	0.00	1.20	-201 -202 -181 -180
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704	1	33	0.00	0.00	1.20	-159 -160 -139 -138
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704	1	33	0.00	0.00	1.20	-262 -263 -245 -244
704	1	33	0.00	0.00	1.20	-244 -245 -224 -223
704	1	33	0.00	0.00	1.20	-223 -224 -203 -202
704	1	33	0.00	0.00	1.20	-202 -203 -182 -181
704	1	33	0.00	0.00	1.20	-181 -182 -161 -160
704	1	33	0.00	0.00	1.20	-160 -161 -140 -139
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704	1	33	0.00	0.00	1.20	-163 -162 -183 -184
704	1	33	0.00	0.00	1.20	-184 -183 -204 -205
704	1	33	0.00	0.00	1.20	-205 -204 -225 -226
704	1	33	0.00	0.00	1.20	-226 -225 -246 -247
704	1	33	0.00	0.00	1.20	-247 -246 -264 8
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704	1	33	0.00	0.00	1.20	-225 -224 -245 -246
704	1	33	0.00	0.00	1.20	-246 -245 -263 -264
704	1	33	0.00	0.00	1.20	-247 -248 -227 -226

704	1	33	0.00	0.00	1.20	-226 -227 -206 -205
704	1	33	0.00	0.00	1.20	-205 -206 -185 -184
704	1	33	0.00	0.00	1.20	-184 -185 -164 -163
704	1	33	0.00	0.00	1.20	-163 -164 -143 -142
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704	1	33	0.00	0.00	1.20	-309 -308 -329 -330
704	1	33	0.00	0.00	1.20	-330 -329 -350 -351
704	1	33	0.00	0.00	1.20	-351 -350 -371 9
704	1	33	0.00	0.00	1.20	-351 -352 -331 -330
704	1	33	0.00	0.00	1.20	-330 -331 -310 -309
704	1	33	0.00	0.00	1.20	-309 -310 -289 -288
704	1	33	0.00	0.00	1.20	-288 -289 -268 -267
704	1	33	0.00	0.00	1.20	-267 -268 -250 5
704	1	33	0.00	0.00	1.20	-372 -373 -353 -352
704	1	33	0.00	0.00	1.20	-352 -353 -332 -331
704	1	33	0.00	0.00	1.20	-331 -332 -311 -310
704	1	33	0.00	0.00	1.20	-310 -311 -290 -289
704	1	33	0.00	0.00	1.20	-289 -290 -269 -268
704	1	33	0.00	0.00	1.20	-268 -269 -251 -250
704	1	33	0.00	0.00	1.20	-373 -374 -354 -353
704	1	33	0.00	0.00	1.20	-353 -354 -333 -332
704	1	33	0.00	0.00	1.20	-332 -333 -312 -311
704	1	33	0.00	0.00	1.20	-311 -312 -291 -290
704	1	33	0.00	0.00	1.20	-290 -291 -270 -269
704	1	33	0.00	0.00	1.20	-269 -270 -252 -251
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704	1	33	0.00	0.00	1.20	-333 -334 -313 -312
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704	1	33	0.00	0.00	1.20	-291 -292 -271 -270
704	1	33	0.00	0.00	1.20	-270 -271 -253 -252
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704	1	33	0.00	0.00	1.20	-271 -272 -254 -253
704	1	33	0.00	0.00	1.20	-376 10 -357 -356
704	1	33	0.00	0.00	1.20	-356 -357 -336 -335
704	1	33	0.00	0.00	1.20	-335 -336 -315 -314
704	1	33	0.00	0.00	1.20	-314 -315 -294 -293
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704	1	33	0.00	0.00	1.20	-272 -273 6 -254
704	1	33	0.00	0.00	1.20	-278 -277 -298 -299
704	1	33	0.00	0.00	1.20	-299 -298 -319 -320
704	1	33	0.00	0.00	1.20	-320 -319 -340 -341
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704	1	33	0.00	0.00	1.20	-362 -361 -380 -381
704	1	33	0.00	0.00	1.20	-258 -257 -276 -277
704	1	33	0.00	0.00	1.20	-277 -276 -297 -298
704	1	33	0.00	0.00	1.20	-298 -297 -318 -319
704	1	33	0.00	0.00	1.20	-319 -318 -339 -340
704	1	33	0.00	0.00	1.20	-340 -339 -360 -361
704	1	33	0.00	0.00	1.20	-361 -360 -379 -380
704	1	33	0.00	0.00	1.20	-257 -256 -275 -276
704	1	33	0.00	0.00	1.20	-276 -275 -296 -297
704	1	33	0.00	0.00	1.20	-297 -296 -317 -318
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704	1	33	0.00	0.00	1.20	-339 -338 -359 -360
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704	1	33	0.00	0.00	1.20	-256 -255 -274 -275
704	1	33	0.00	0.00	1.20	-275 -274 -295 -296
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704	1	33	0.00	0.00	1.20	-338 -337 -358 -359
704	1	33	0.00	0.00	1.20	-359 -358 -377 -378
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704	1	33	0.00	0.00	1.20	-260 -280 -281 -261
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704	1	33	0.00	0.00	1.20	-262 -282 -283 -263
704	1	33	0.00	0.00	1.20	-279 -300 -301 -280
704	1	33	0.00	0.00	1.20	-280 -301 -302 -281
704	1	33	0.00	0.00	1.20	-281 -302 -303 -282
704	1	33	0.00	0.00	1.20	-282 -303 -304 -283

704	1	33	0.00	0.00	1.20	-300 -321 -322 -301
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704	1	33	0.00	0.00	1.20	-365 -383 -384 -366
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704	1	33	0.00	0.00	1.20	-327 -326 -347 -348
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704	1	33	0.00	0.00	1.20	-431 -432 -411 -410
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704	1	33	0.00	0.00	1.20	-711 -710 -729 -730
704	1	33	0.00	0.00	1.20	-606 -605 -625 -626
704	1	33	0.00	0.00	1.20	-626 -625 -646 -647
704	1	33	0.00	0.00	1.20	-413 -414 -393 -392
704	1	33	0.00	0.00	1.20	-392 -393 -375 -374
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704	1	33	0.00	0.00	1.20	-442 -441 -462 -463
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704	1	33	0.00	0.00	1.20	-484 -483 -502 -503
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704	1	33	0.00	0.00	1.20	-379 -378 -397 -398
704	1	33	0.00	0.00	1.20	-398 -397 -418 -419
704	1	33	0.00	0.00	1.20	-419 -418 -439 -440

704	1	33	0.00	0.00	1.20	-440 -439 -460 -461
704	1	33	0.00	0.00	1.20	-461 -460 -481 -482
704	1	33	0.00	0.00	1.20	-482 -481 -500 -501
704	1	33	0.00	0.00	1.20	-378 -377 -396 -397
704	1	33	0.00	0.00	1.20	-397 -396 -417 -418
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704	1	33	0.00	0.00	1.20	-377 10 -395 -396
704	1	33	0.00	0.00	1.20	-396 -395 -416 -417
704	1	33	0.00	0.00	1.20	-417 -416 -437 -438
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704	1	33	0.00	0.00	1.20	-484 -485 -464 -463
704	1	33	0.00	0.00	1.20	-463 -464 -443 -442
704	1	33	0.00	0.00	1.20	-442 -443 -422 -421
704	1	33	0.00	0.00	1.20	-421 -422 -401 -400
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704	1	33	0.00	0.00	1.20	-485 -486 -465 -464
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704	1	33	0.00	0.00	1.20	-443 -444 -423 -422
704	1	33	0.00	0.00	1.20	-422 -423 -402 -401
704	1	33	0.00	0.00	1.20	-655 -656 -635 -634
704	1	33	0.00	0.00	1.20	-634 -635 -614 -613
704	1	33	0.00	0.00	1.20	-613 -614 -596 -595
704	1	33	0.00	0.00	1.20	-718 -719 -699 -698
704	1	33	0.00	0.00	1.20	-698 -699 -678 -677
704	1	33	0.00	0.00	1.20	-677 -678 -657 -656
704	1	33	0.00	0.00	1.20	-656 -657 -636 -635
704	1	33	0.00	0.00	1.20	-635 -636 -615 -614
704	1	33	0.00	0.00	1.20	-614 -615 -597 -596
704	1	33	0.00	0.00	1.20	-719 -720 -700 -699
704	1	33	0.00	0.00	1.20	-699 -700 -679 -678
704	1	33	0.00	0.00	1.20	-678 -679 -658 -657
704	1	33	0.00	0.00	1.20	-403 -404 -384 -383
704	1	33	0.00	0.00	1.20	-506 -507 -489 -488
704	1	33	0.00	0.00	1.20	-488 -489 -468 -467
704	1	33	0.00	0.00	1.20	-467 -468 -447 -446
704	1	33	0.00	0.00	1.20	-446 -447 -426 -425
704	1	33	0.00	0.00	1.20	-425 -426 -405 -404
704	1	33	0.00	0.00	1.20	-404 -405 -385 -384
704	1	33	0.00	0.00	1.20	-489 -490 -469 -468
704	1	33	0.00	0.00	1.20	-468 -469 -448 -447
704	1	33	0.00	0.00	1.20	-447 -448 -427 -426
704	1	33	0.00	0.00	1.20	-426 -427 -406 -405
704	1	33	0.00	0.00	1.20	-405 -406 -386 -385
704	1	33	0.00	0.00	1.20	-508 16 -491 -490
704	1	33	0.00	0.00	1.20	-490 -491 -470 -469
704	1	33	0.00	0.00	1.20	-469 -470 -449 -448
704	1	33	0.00	0.00	1.20	-448 -449 -428 -427
704	1	33	0.00	0.00	1.20	-427 -428 -407 -406
704	1	33	0.00	0.00	1.20	-406 -407 12 -386
704	1	33	0.00	0.00	1.20	-408 -407 -428 -429
704	1	33	0.00	0.00	1.20	-429 -428 -449 -450
704	1	33	0.00	0.00	1.20	-450 -449 -470 -471
704	1	33	0.00	0.00	1.20	-471 -470 -491 -492
704	1	33	0.00	0.00	1.20	-492 -491 16 -509
704	1	33	0.00	0.00	1.20	-573 -574 -553 -552
704	1	33	0.00	0.00	1.20	-552 -553 -532 -531
704	1	33	0.00	0.00	1.20	-531 -532 -511 -510
704	1	33	0.00	0.00	1.20	-510 -511 13 -493
704	1	33	0.00	0.00	1.20	-494 -512 -513 -495
704	1	33	0.00	0.00	1.20	-495 -513 -514 -496
704	1	33	0.00	0.00	1.20	-496 -514 -515 -497
704	1	33	0.00	0.00	1.20	-497 -515 -516 -498
704	1	33	0.00	0.00	1.20	-498 -516 -517 14
704	1	33	0.00	0.00	1.20	-511 -532 -533 -512
704	1	33	0.00	0.00	1.20	-512 -533 -534 -513
704	1	33	0.00	0.00	1.20	-513 -534 -535 -514
704	1	33	0.00	0.00	1.20	-841 -842 -821 -820
704	1	33	0.00	0.00	1.20	-862 -863 -843 -842
704	1	33	0.00	0.00	1.20	-842 -843 -822 -821
704	1	33	0.00	0.00	1.20	-717 -718 -698 -697
704	1	33	0.00	0.00	1.20	-697 -698 -677 -676
704	1	33	0.00	0.00	1.20	-676 -677 -656 -655
704	1	33	0.00	0.00	1.20	-647 -646 -667 -668
704	1	33	0.00	0.00	1.20	-668 -667 -688 -689
704	1	33	0.00	0.00	1.20	-689 -688 -709 -710
704	1	33	0.00	0.00	1.20	-710 -709 -728 -729
704	1	33	0.00	0.00	1.20	-605 19 -624 -625
704	1	33	0.00	0.00	1.20	-625 -624 -645 -646
704	1	33	0.00	0.00	1.20	-646 -645 -666 -667
704	1	33	0.00	0.00	1.20	-667 -666 -687 -688
704	1	33	0.00	0.00	1.20	-688 -687 -708 -709

704	1	33	0.00	0.00	1.20	-709 -708 -727 -728
704	1	33	0.00	0.00	1.20	-707 -708 -687 -686
704	1	33	0.00	0.00	1.20	-686 -687 -666 -665
704	1	33	0.00	0.00	1.20	-665 -666 -645 -644
704	1	33	0.00	0.00	1.20	-644 -645 -624 -623
704	1	33	0.00	0.00	1.20	-623 -624 19 -604
704	1	33	0.00	0.00	1.20	-623 -622 -643 -644
704	1	33	0.00	0.00	1.20	-644 -643 -664 -665
704	1	33	0.00	0.00	1.20	-665 -664 -685 -686
704	1	33	0.00	0.00	1.20	-686 -685 -706 -707
704	1	33	0.00	0.00	1.20	-707 -706 -725 -726
704	1	33	0.00	0.00	1.20	-603 -602 -621 -622
704	1	33	0.00	0.00	1.20	-622 -621 -642 -643
704	1	33	0.00	0.00	1.20	-643 -642 -663 -664
704	1	33	0.00	0.00	1.20	-664 -663 -684 -685
704	1	33	0.00	0.00	1.20	-685 -684 -705 -706
704	1	33	0.00	0.00	1.20	-706 -705 -724 -725
704	1	33	0.00	0.00	1.20	-602 -601 -620 -621
704	1	33	0.00	0.00	1.20	-621 -620 -641 -642
704	1	33	0.00	0.00	1.20	-642 -641 -662 -663
704	1	33	0.00	0.00	1.20	-663 -662 -683 -684
704	1	33	0.00	0.00	1.20	-684 -683 -704 -705
704	1	33	0.00	0.00	1.20	-705 -704 -723 -724
704	1	33	0.00	0.00	1.20	-601 -600 -619 -620
704	1	33	0.00	0.00	1.20	-620 -619 -640 -641
704	1	33	0.00	0.00	1.20	-641 -640 -661 -662
704	1	33	0.00	0.00	1.20	-662 -661 -682 -683
704	1	33	0.00	0.00	1.20	-683 -682 -703 -704
704	1	33	0.00	0.00	1.20	-704 -703 -722 -723
704	1	33	0.00	0.00	1.20	-600 18 -618 -619
704	1	33	0.00	0.00	1.20	-619 -618 -639 -640
704	1	33	0.00	0.00	1.20	-640 -639 -660 -661
704	1	33	0.00	0.00	1.20	-661 -660 -681 -682
704	1	33	0.00	0.00	1.20	-682 -681 -702 -703
704	1	33	0.00	0.00	1.20	-703 -702 22 -722
704	1	33	0.00	0.00	1.20	-696 -697 -676 -675
704	1	33	0.00	0.00	1.20	-675 -676 -655 -654
704	1	33	0.00	0.00	1.20	-654 -655 -634 -633
704	1	33	0.00	0.00	1.20	-633 -634 -613 -612
704	1	33	0.00	0.00	1.20	-612 -613 -595 17
704	1	33	0.00	0.00	1.20	-631 -630 -651 -652
704	1	33	0.00	0.00	1.20	-652 -651 -672 -673
704	1	33	0.00	0.00	1.20	-673 -672 -693 -694
704	1	33	0.00	0.00	1.20	-694 -693 -714 -715
704	1	33	0.00	0.00	1.20	-715 -714 -733 -734
704	1	33	0.00	0.00	1.20	-712 -713 -692 -691
704	1	33	0.00	0.00	1.20	-691 -692 -671 -670
704	1	33	0.00	0.00	1.20	-670 -671 -650 -649
704	1	33	0.00	0.00	1.20	-649 -650 -629 -628
704	1	33	0.00	0.00	1.20	-628 -629 -609 -608
704	1	33	0.00	0.00	1.20	-732 -733 -714 -713
704	1	33	0.00	0.00	1.20	-713 -714 -693 -692
704	1	33	0.00	0.00	1.20	-692 -693 -672 -671
704	1	33	0.00	0.00	1.20	-671 -672 -651 -650
704	1	33	0.00	0.00	1.20	-650 -651 -630 -629
704	1	33	0.00	0.00	1.20	-657 -658 -637 -636
704	1	33	0.00	0.00	1.20	-636 -637 -616 -615
704	1	33	0.00	0.00	1.20	-615 -616 -598 -597
704	1	33	0.00	0.00	1.20	-720 -721 -701 -700
704	1	33	0.00	0.00	1.20	-700 -701 -680 -679
704	1	33	0.00	0.00	1.20	-679 -680 -659 -658
704	1	33	0.00	0.00	1.20	-658 -659 -638 -637
704	1	33	0.00	0.00	1.20	-637 -638 -617 -616
704	1	33	0.00	0.00	1.20	-616 -617 -599 -598
704	1	33	0.00	0.00	1.20	-550 -551 -530 -529
704	1	33	0.00	0.00	1.20	-529 -530 -509 16
704	1	33	0.00	0.00	1.20	-680 -681 -660 -659
704	1	33	0.00	0.00	1.20	-659 -660 -639 -638
704	1	33	0.00	0.00	1.20	-638 -639 -618 -617
704	1	33	0.00	0.00	1.20	-617 -618 18 -599
704	1	33	0.00	0.00	1.20	-612 -611 -632 -633
704	1	33	0.00	0.00	1.20	-633 -632 -653 -654
704	1	33	0.00	0.00	1.20	-654 -653 -674 -675
704	1	33	0.00	0.00	1.20	-675 -674 -695 -696
704	1	33	0.00	0.00	1.20	-696 -695 -716 21
704	1	33	0.00	0.00	1.20	-862 -882 -883 -863
704	1	33	0.00	0.00	1.20	-863 -883 -884 -864
704	1	33	0.00	0.00	1.20	-864 -884 -885 -865
704	1	33	0.00	0.00	1.20	-865 -885 -886 -866
704	1	33	0.00	0.00	1.20	-866 -886 -887 24
704	1	33	0.00	0.00	1.20	-867 -888 -889 -868
704	1	33	0.00	0.00	1.20	-629 -630 20 -609
704	1	33	0.00	0.00	1.20	-628 -627 -648 -649
704	1	33	0.00	0.00	1.20	-649 -648 -669 -670
704	1	33	0.00	0.00	1.20	-670 -669 -690 -691
704	1	33	0.00	0.00	1.20	-691 -690 -711 -712

704	1	33	0.00	0.00	1.20	-712 -711 -730 -731
704	1	33	0.00	0.00	1.20	-607 -606 -626 -627
704	1	33	0.00	0.00	1.20	-627 -626 -647 -648
704	1	33	0.00	0.00	1.20	-648 -647 -668 -669
704	1	33	0.00	0.00	1.20	-669 -668 -689 -690
704	1	33	0.00	0.00	1.20	-701 -702 -681 -680
704	1	33	0.00	0.00	1.20	-874 -895 -896 -875
704	1	33	0.00	0.00	1.20	-875 -896 -897 -876
704	1	33	0.00	0.00	1.20	-868 -889 -890 -869
704	1	33	0.00	0.00	1.20	-869 -890 -891 -870
704	1	33	0.00	0.00	1.20	-870 -891 -892 -871
704	1	33	0.00	0.00	1.20	-873 -894 -895 -874
704	1	33	0.00	0.00	1.20	-841 -840 -861 23
704	1	33	0.00	0.00	1.20	-799 -798 -819 -820
704	1	33	0.00	0.00	1.20	-898 -877 -876 -897
704	1	33	0.00	0.00	1.20	-721 22 -702 -701
705	4	33	0.00	0.00		-1493 -1494 -1491 -1490
705	4	33	0.00	0.00		-1490 -1491 -1489 -1488
705	4	33	0.00	0.00		-1486 -1487 -1484 -1483
705	4	33	0.00	0.00		-1483 -1484 -1481 -1480
705	4	33	0.00	0.00		-1480 -1481 -1478 -1477
705	4	33	0.00	0.00		-1506 221 -1504 -1503
705	4	33	0.00	0.00		-1503 -1504 -1501 -1500
705	4	33	0.00	0.00		-1500 -1501 -1498 -1497
705	4	33	0.00	0.00		-1497 -1498 -1495 -1494
705	4	33	0.00	0.00		-1494 -1495 -1492 -1491
705	4	33	0.00	0.00		-1491 -1492 217 -1489
705	4	33	0.00	0.00		-1482 -1483 -1480 -1479
705	4	33	0.00	0.00		-1479 -1480 -1477 -1476
705	4	33	0.00	0.00		-1476 -1477 -1475 -1474
705	4	33	0.00	0.00		-1474 -1475 -1472 -1471
705	4	33	0.00	0.00		-1505 -1506 -1503 -1502
705	4	33	0.00	0.00		-1485 -1486 -1483 -1482
705	4	33	0.00	0.00		-1471 -1472 -1469 -1468
705	4	33	0.00	0.00		-1454 -1455 -1452 -1451
705	4	33	0.00	0.00		-1448 -1449 -1446 -1445
705	4	33	0.00	0.00		-1445 -1446 -1443 -1442
705	4	33	0.00	0.00		-1442 -1443 -1441 -1440
705	4	33	0.00	0.00		-1488 -1489 -1486 -1485
705	4	33	0.00	0.00		-1455 -1456 -1453 -1452
705	4	33	0.00	0.00		-1452 -1453 -1450 -1449
705	4	33	0.00	0.00		-1449 -1450 -1447 -1446
705	4	33	0.00	0.00		-1446 -1447 -1444 -1443
705	4	33	0.00	0.00		-1443 -1444 205 -1441
705	4	33	0.00	0.00		-1489 217 -1487 -1486
705	4	33	0.00	0.00		-1496 -1497 -1494 -1493
705	4	33	0.00	0.00		-1458 209 -1456 -1455
705	4	33	0.00	0.00		-1477 -1478 213 -1475
705	4	33	0.00	0.00		-1475 213 -1473 -1472
705	4	33	0.00	0.00		-1468 -1469 -1466 -1465
705	4	33	0.00	0.00		-1465 -1466 -1463 -1462
705	4	33	0.00	0.00		-1462 -1463 -1460 -1459
705	4	33	0.00	0.00		-1459 -1460 -1458 -1457
705	4	33	0.00	0.00		-1457 -1458 -1455 -1454
705	4	33	0.00	0.00		-1472 -1473 -1470 -1469
705	4	33	0.00	0.00		-1469 -1470 -1467 -1466
705	4	33	0.00	0.00		-1502 -1503 -1500 -1499
705	4	33	0.00	0.00		-1499 -1500 -1497 -1496
705	4	33	0.00	0.00		-1460 -1461 209 -1458
705	4	33	0.00	0.00		-1451 -1452 -1449 -1448
705	4	33	0.00	0.00		-1463 -1464 -1461 -1460
705	4	33	0.00	0.00		-1466 -1467 -1464 -1463
706	4	33	0.00	0.00		-1716 -1717 -1709 -1708
706	4	33	0.00	0.00		-1697 -1705 -1706 -1698
706	4	33	0.00	0.00		-1696 -1704 -1705 -1697
706	4	33	0.00	0.00		-1723 -1715 -1714 -1722
706	4	33	0.00	0.00		-1722 -1714 -1713 -1721
706	4	33	0.00	0.00		-1721 -1713 -1712 -1720
706	4	33	0.00	0.00		-1716 -1708 -1707 -1715
706	4	33	0.00	0.00		-1698 -1706 -1707 -1699
706	4	33	0.00	0.00		-1699 -1707 -1708 -1700
706	4	33	0.00	0.00		-1713 -1705 -1704 -1712
706	4	33	0.00	0.00		-1668 -1676 -1677 -1669
706	4	33	0.00	0.00		-1725 -1726 -1718 -1717
706	4	33	0.00	0.00		-1717 -1718 -1710 -1709
706	4	33	0.00	0.00		-1700 -1701 -1693 -1692
706	4	33	0.00	0.00		-1709 -1710 -1702 -1701
706	4	33	0.00	0.00		-1701 -1702 -1694 -1693
706	4	33	0.00	0.00		-1684 -1685 -1677 -1676
706	4	33	0.00	0.00		-1693 -1694 -1686 -1685
706	4	33	0.00	0.00		-1685 -1686 -1678 -1677
706	4	33	0.00	0.00		-1669 -1677 -1678 -1670
706	4	33	0.00	0.00		-1715 -1707 -1706 -1714
706	4	33	0.00	0.00		-1714 -1706 -1705 -1713
706	4	33	0.00	0.00		-1692 -1693 -1685 -1684
706	4	33	0.00	0.00		-1690 -1698 -1699 -1691

706	4	33	0.00	0.00		-1691 -1699 -1700 -1692
706	4	33	0.00	0.00		-1720 -1712 -1711 -1719
706	4	33	0.00	0.00		-1704 -1696 -1695 -1703
706	4	33	0.00	0.00		-1688 -1680 -1679 -1687
706	4	33	0.00	0.00		-1672 -1664 -1663 -1671
706	4	33	0.00	0.00		-1664 -1672 -1673 -1665
706	4	33	0.00	0.00		-1692 -1684 -1683 -1691
706	4	33	0.00	0.00		-1688 -1696 -1697 -1689
706	4	33	0.00	0.00		-1724 -1716 -1715 -1723
706	4	33	0.00	0.00		-1724 -1725 -1717 -1716
706	4	33	0.00	0.00		-1708 -1709 -1701 -1700
706	4	33	0.00	0.00		-1712 -1704 -1703 -1711
706	4	33	0.00	0.00		-1696 -1688 -1687 -1695
706	4	33	0.00	0.00		-1680 -1672 -1671 -1679
706	4	33	0.00	0.00		-1665 -1673 -1674 -1666
706	4	33	0.00	0.00		-1666 -1674 -1675 -1667
706	4	33	0.00	0.00		-1667 -1675 -1676 -1668
706	4	33	0.00	0.00		-1691 -1683 -1682 -1690
706	4	33	0.00	0.00		-1690 -1682 -1681 -1689
706	4	33	0.00	0.00		-1689 -1681 -1680 -1688
706	4	33	0.00	0.00		-1684 -1676 -1675 -1683
706	4	33	0.00	0.00		-1683 -1675 -1674 -1682
706	4	33	0.00	0.00		-1682 -1674 -1673 -1681
706	4	33	0.00	0.00		-1681 -1673 -1672 -1680
706	4	33	0.00	0.00		-1689 -1697 -1698 -1690

Elenco tipi solai

Simbologia

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

Ts	Comm.	Rc	Qps <daN/mq>	Qpn <daN/mq>	QA <daN/mq>	QA2 <daN/mq>	QA3 <daN/mq>	Rip. ter.	Rip. int.	Lfl <m>	s	Hs <cm>	Sc <cm>	Crit.
1	Solaio PT interno (predalles 4+22+4)	UN	400.00	250.00	500.00	0.00	0.00	50.00	50.00	0.00	0.33	30.00	4.00	1
2	Solaio PT esterno (predalles 4+22+4)	UN	400.00	250.00	500.00	80.00	0.00	50.00	50.00	0.00	0.33	30.00	4.00	1
3	Solaio P1 (predalles 4+22+4)	UN	400.00	300.00	300.00	80.00	0.00	50.00	50.00	0.00	0.33	30.00	4.00	1

Elenco solai

Simbologia

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

Sol.	Ts	Ord. <grad>	Nodi
100	1	90.00	101 -1275 -1276 -1277 -1278 -1279 102 106 105 -1290 -1288 -1286 -1284 -1282 -1280
101	1	90.00	106 107 103 102
102	1	90.00	107 108 -1291 -1289 -1287 -1285 -1283 -1281 104 103
103	1	90.00	111 112 -1301 -1299 -1297 -1295 -1293 108 107
104	1	90.00	110 111 107 106
105	1	90.00	109 110 106 105 -1292 -1294 -1296 -1298 -1300
106	1	90.00	113 114 110 109 -1302 -1304 -1306 -1308 -1310
107	1	90.00	114 115 111 110
108	1	90.00	115 116 -1311 -1309 -1307 -1305 -1303 112 111
109	1	90.00	119 120 116 115
110	1	90.00	118 119 115 114
111	1	90.00	117 118 114 113 -1312 -1313 -1314 -1315
112	1	90.00	121 122 118 117 -1316 -1317 -1318 -1319 -1320
113	1	90.00	122 127 128 119 118
114	1	90.00	128 -1321 -1322 -1323 -1324 -1325 129 120 119
115	1	90.00	124 -1349 -1350 -1351 -1352 -1353 -1342 -1339 -1336 -1333 -1330 -1327 127 122
116	1	90.00	-1326 -1329 -1332 -1335 -1338 -1341 123 -1344 -1345 -1346 -1347 -1348 124 122 121
117	2	90.00	125 -1259 -1260 -1261 -1262 -1263 126 103 102
118	2	90.00	126 -1264 -1265 -1266 -1267 -1268 -1269 -1270 -1271 -1272 -1273 -1274 104 103
300	3	90.00	305 306 302 301
301	3	90.00	306 307 303 302
302	3	90.00	307 308 304 303
303	3	90.00	309 310 306 305
304	3	90.00	310 311 307 306
305	3	90.00	311 312 308 307

306	3	90.00	313 314 310 309
307	3	90.00	314 315 311 310
308	3	90.00	315 316 312 311
309	3	90.00	317 318 314 313
310	3	90.00	318 319 315 314
311	3	90.00	319 320 316 315
312	3	90.00	321 322 318 317
313	3	90.00	322 325 326 319 318
314	3	90.00	326 -1560 -1561 -1562 -1563 -1564 327 320 319
315	3	90.00	323 324 322 321
316	3	90.00	324 328 -1575 -1573 -1571 -1569 -1567 -1565 325 322

Carichi

Elenco tipi CCE

Simbologia

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

Tipo CCE	Comm.	Tipo	Durata	γ min.	γ max	ψ_0	ψ_1	ψ_2	$\psi_{0,s}$
1	D.M. 18 Permanenti strutturali	G	P	1.00	1.30				
2	D.M. 18 Permanenti non strutturali	G	L	0.80	1.50				
5	D.M. 18 Variabili Categoria C - Ambienti suscettibili di affollamento	Q	M	0.00	1.50	0.70	0.70	0.60	0.00
8	D.M. 18 Variabili Categoria F - Rimesse, parcheggi ed aree per il traffico di veicoli (per autoveicoli di peso <= 30 kN)	Q	M	0.00	1.50	0.70	0.70	0.60	0.00
19	D.M. 18 Variabili Categoria H - Coperture accessibili per sola manutenzione	Q	M	0.00	1.50	0.00	0.00	0.00	1.00
12	D.M. 18 Variabili Neve (a quota <= 1000 m s.l.m.)	Q	M	0.00	1.50	0.50	0.20	0.00	0.00

Condizioni di carico elementari

Simbologia

CCE = Numero della condizione di carico elementare
Comm. = Commento
Dir. = Direzione del vento
Jpx = Moltiplicatore del momento d'inerzia intorno all'asse X
Jpy = Moltiplicatore del momento d'inerzia intorno all'asse Y
Jpz = Moltiplicatore del momento d'inerzia intorno all'asse Z
Mx = Moltiplicatore della massa in dir. X
My = Moltiplicatore della massa in dir. Y
Mz = Moltiplicatore della massa in dir. Z
Sic. = Contributo alla sicurezza
S = a sfavore
Tipo = Tipologia di pressione vento
M = Massimizzata
E = Esterna
I = Interna
Tipo CCE = Tipo di CCE per calcolo agli stati limite
Var. = Tipo di variabilità
B = di base
I = indipendente
s = Coeff. di riduzione (T.A. o S.L. D.M. 96)

CCE	Comm.	Tipo CCE	Sic.	Var.	s	Dir. <grad>	Tipo	Mx	My	Mz	Jpx	Jpy	Jpz
1	G1	1	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
2	G2	2	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
3	Q (categ. C)	5	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
4	Q (categ. F)	8	S	I	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
5	Q (categ. H)	19	S	I	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
6	Q (neve)	12	S	I	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00

Elenco carichi asteCondizione di carico n. 1: G1
Elenco peso proprio aste

Simbologia

A = Area
Comm. = Commento
Mat. = Materiale
P = Peso specifico

PL = Peso specifico a metro lineare
Sez. = Numero della sezione

Sez.	Comm.	A <cmq>	Mat.	P <daN/mc>	PL <daN/m>
1	pil. 40x50	2000.000000	Calcestruzzo classe C30/37	2500.00	500.00
2	tr. 60x30	1800.000000	Calcestruzzo classe C30/37	2500.00	450.00
3	tr. 30x30	900.000000	Calcestruzzo classe C30/37	2500.00	225.00
4	tr. 50x30	1500.000000	Calcestruzzo classe C30/37	2500.00	375.00
5	tr. 30x25	750.000000	Calcestruzzo classe C30/37	2500.00	187.50
6	pil. 40x40	1600.000000	Calcestruzzo classe C30/37	2500.00	400.00
7	pil. 40x60	2400.000000	Calcestruzzo classe C30/37	2500.00	600.00

Condizione di carico n. 1: G1
Carichi distribuiti

Simbologia

Asta = Numero dell'asta
DC = Direzione del carico
XG,YG,ZG = secondo gli assi globali
XL,YL,ZL = secondo gli assi locali
E = Elemento provenienza del carico
S = Solaio
T = Tamponatura
N1 = Nodo iniziale
N2 = Nodo finale
NE = Numero elemento di provenienza del carico
Qf = Carico finale
Qi = Carico iniziale
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
Xf = Distanza finale
Xi = Distanza iniziale

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	101	-1275	S	100	QPS	ZG	0.00	1210.00	0.88	1210.00
0	125	-1259	S	117	QPS	ZG	0.00	998.00	0.89	998.00
0	-1275	-1276	S	100	QPS	ZG	0.00	1210.00	0.88	1210.00
0	-1259	-1260	S	117	QPS	ZG	0.00	998.00	0.89	998.00
0	-1276	-1277	S	100	QPS	ZG	0.00	1210.00	0.88	1210.00
0	-1260	-1261	S	117	QPS	ZG	0.00	998.00	0.89	998.00
0	-1277	-1278	S	100	QPS	ZG	0.00	1210.00	0.88	1210.00
0	-1261	-1262	S	117	QPS	ZG	0.00	998.00	0.89	998.00
0	-1278	-1279	S	100	QPS	ZG	0.00	1210.00	0.88	1210.00
0	-1262	-1263	S	117	QPS	ZG	0.00	998.00	0.89	998.00
0	-1279	102	S	100	QPS	ZG	0.00	1210.00	0.88	1210.00
0	-1263	126	S	117	QPS	ZG	0.00	998.00	0.53	998.00
0	126	-1264	S	118	QPS	ZG	0.00	998.00	0.91	998.00
0	-1264	-1265	S	118	QPS	ZG	0.00	998.00	0.91	998.00
0	-1265	-1266	S	118	QPS	ZG	0.00	998.00	0.91	998.00
0	-1266	-1267	S	118	QPS	ZG	0.00	998.00	0.91	998.00
0	-1267	-1268	S	118	QPS	ZG	0.00	998.00	0.80	998.00
0	-1268	-1269	S	118	QPS	ZG	0.00	998.00	0.80	998.00
0	-1344	123	S	116	QPS	ZG	0.00	1040.00	0.88	1040.00
0	-1345	-1344	S	116	QPS	ZG	0.00	1040.00	0.88	1040.00
0	-1346	-1345	S	116	QPS	ZG	0.00	1040.00	0.88	1040.00
0	-1347	-1346	S	116	QPS	ZG	0.00	1040.00	0.88	1040.00
0	-1348	-1347	S	116	QPS	ZG	0.00	1040.00	0.88	1040.00
0	128	127	S	113	QPS	ZG	0.00	1040.00	0.53	1040.00
0	124	-1348	S	116	QPS	ZG	0.00	1040.00	0.88	1040.00
0	-1321	128	S	114	QPS	ZG	0.00	1040.00	0.91	1040.00
0	-1349	124	S	115	QPS	ZG	0.00	1040.00	0.89	1040.00
0	-1322	-1321	S	114	QPS	ZG	0.00	1040.00	0.91	1040.00
0	-1350	-1349	S	115	QPS	ZG	0.00	1040.00	0.89	1040.00
0	-1323	-1322	S	114	QPS	ZG	0.00	1040.00	0.91	1040.00
0	-1324	-1323	S	114	QPS	ZG	0.00	1040.00	0.91	1040.00
0	-1325	-1324	S	114	QPS	ZG	0.00	1040.00	0.80	1040.00
0	326	325	S	313	QPS	ZG	0.00	1040.00	0.53	1040.00
0	-1560	326	S	314	QPS	ZG	0.00	1040.00	0.91	1040.00
0	-1561	-1560	S	314	QPS	ZG	0.00	1040.00	0.91	1040.00
0	-1562	-1561	S	314	QPS	ZG	0.00	1040.00	0.91	1040.00
0	-1351	-1350	S	115	QPS	ZG	0.00	1040.00	0.89	1040.00
0	-1352	-1351	S	115	QPS	ZG	0.00	1040.00	0.89	1040.00
0	-1353	-1352	S	115	QPS	ZG	0.00	1040.00	0.89	1040.00
0	327	-1564	S	314	QPS	ZG	0.00	1040.00	0.80	1040.00
0	129	-1325	S	114	QPS	ZG	0.00	1040.00	0.80	1040.00
0	-1563	-1562	S	314	QPS	ZG	0.00	1040.00	0.91	1040.00
0	-1564	-1563	S	314	QPS	ZG	0.00	1040.00	0.80	1040.00

101	103	102	S	101	QPS	ZG	0.00	1210.00	5.00	1210.00
101	103	102	S	117	QPS	ZG	0.00	998.00	5.00	998.00
101	104	103	S	102	QPS	ZG	0.00	1210.00	5.25	1210.00
101	104	103	S	118	QPS	ZG	0.00	998.00	5.25	998.00
102	106	105	S	100	QPS	ZG	0.00	1210.00	5.25	1210.00
102	106	105	S	105	QPS	ZG	0.00	1160.00	5.25	1160.00
102	107	106	S	101	QPS	ZG	0.00	1210.00	5.00	1210.00
102	107	106	S	104	QPS	ZG	0.00	1160.00	5.00	1160.00
102	108	107	S	102	QPS	ZG	0.00	1210.00	5.25	1210.00
102	108	107	S	103	QPS	ZG	0.00	1160.00	5.25	1160.00
103	110	109	S	105	QPS	ZG	0.00	1160.00	5.25	1160.00
103	110	109	S	106	QPS	ZG	0.00	1160.00	5.25	1160.00
103	111	110	S	104	QPS	ZG	0.00	1160.00	5.00	1160.00
103	111	110	S	107	QPS	ZG	0.00	1160.00	5.00	1160.00
103	112	111	S	103	QPS	ZG	0.00	1160.00	5.25	1160.00
103	112	111	S	108	QPS	ZG	0.00	1160.00	5.25	1160.00
104	114	113	S	106	QPS	ZG	0.00	1160.00	5.25	1160.00
104	114	113	S	111	QPS	ZG	0.00	934.00	5.25	934.00
104	115	114	S	107	QPS	ZG	0.00	1160.00	5.00	1160.00
104	115	114	S	110	QPS	ZG	0.00	934.00	5.00	934.00
104	116	115	S	108	QPS	ZG	0.00	1160.00	5.25	1160.00
104	116	115	S	109	QPS	ZG	0.00	934.00	5.25	934.00
105	118	117	S	111	QPS	ZG	0.00	934.00	5.25	934.00
105	118	117	S	112	QPS	ZG	0.00	1040.00	5.25	1040.00
105	119	118	S	110	QPS	ZG	0.00	934.00	5.00	934.00
105	119	118	S	113	QPS	ZG	0.00	1040.00	5.00	1040.00
105	120	119	S	109	QPS	ZG	0.00	934.00	5.25	934.00
105	120	119	S	114	QPS	ZG	0.00	1040.00	5.25	1040.00
106	122	121	S	112	QPS	ZG	0.00	1040.00	5.25	1040.00
106	122	121	S	116	QPS	ZG	4.38	1040.00	5.25	1040.00
106	122	121	S	116	QPS	ZG	0.00	1040.00	4.38	1040.00
106	127	122	S	113	QPS	ZG	0.00	1040.00	4.47	1040.00
106	127	122	S	115	QPS	ZG	0.00	1040.00	4.47	1040.00
301	302	301	S	300	QPS	ZG	0.00	1210.00	5.25	1210.00
301	303	302	S	301	QPS	ZG	0.00	1210.00	5.00	1210.00
301	304	303	S	302	QPS	ZG	0.00	1210.00	5.25	1210.00
302	306	305	S	300	QPS	ZG	0.00	1210.00	5.25	1210.00
302	306	305	S	303	QPS	ZG	0.00	1160.00	5.25	1160.00
302	307	306	S	301	QPS	ZG	0.00	1210.00	5.00	1210.00
302	307	306	S	304	QPS	ZG	0.00	1160.00	5.00	1160.00
302	308	307	S	302	QPS	ZG	0.00	1210.00	5.25	1210.00
302	308	307	S	305	QPS	ZG	0.00	1160.00	5.25	1160.00
303	310	309	S	303	QPS	ZG	0.00	1160.00	5.25	1160.00
303	310	309	S	306	QPS	ZG	0.00	1160.00	5.25	1160.00
303	311	310	S	304	QPS	ZG	0.00	1160.00	5.00	1160.00
303	311	310	S	307	QPS	ZG	0.00	1160.00	5.00	1160.00
303	312	311	S	305	QPS	ZG	0.00	1160.00	5.25	1160.00
303	312	311	S	308	QPS	ZG	0.00	1160.00	5.25	1160.00
304	314	313	S	306	QPS	ZG	0.00	1160.00	5.25	1160.00
304	314	313	S	309	QPS	ZG	0.00	934.00	5.25	934.00
304	315	314	S	307	QPS	ZG	0.00	1160.00	5.00	1160.00
304	315	314	S	310	QPS	ZG	0.00	934.00	5.00	934.00
304	316	315	S	308	QPS	ZG	0.00	1160.00	5.25	1160.00
304	316	315	S	311	QPS	ZG	0.00	934.00	5.25	934.00
305	318	317	S	309	QPS	ZG	0.00	934.00	5.25	934.00
305	318	317	S	312	QPS	ZG	0.00	1040.00	5.25	1040.00
305	319	318	S	310	QPS	ZG	0.00	934.00	5.00	934.00
305	319	318	S	313	QPS	ZG	0.00	1040.00	5.00	1040.00
305	320	319	S	311	QPS	ZG	0.00	934.00	5.25	934.00
305	320	319	S	314	QPS	ZG	0.00	1040.00	5.25	1040.00
306	322	321	S	312	QPS	ZG	0.00	1040.00	5.25	1040.00
306	322	321	S	315	QPS	ZG	0.00	1040.00	5.25	1040.00
306	325	322	S	313	QPS	ZG	0.00	1040.00	4.47	1040.00
306	325	322	S	316	QPS	ZG	0.00	1040.00	4.47	1040.00
307	323	324	S	315	QPS	ZG	0.00	1040.00	5.25	1040.00
307	324	328	S	316	QPS	ZG	0.00	1040.00	4.47	1040.00

Condizione di carico n. 2: G2
Carichi distribuiti

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	-1280	101	-	--	M	ZG	0.00	1700.00	0.86	1700.00
0	101	-1275	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	101	-1275	S	100	QPN	ZG	0.00	756.25	0.88	756.25
0	125	-1259	S	117	QPN	ZG	0.00	623.75	0.89	623.75
0	-1282	-1280	-	--	M	ZG	0.00	1700.00	0.86	1700.00
0	-1275	-1276	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	-1275	-1276	S	100	QPN	ZG	0.00	756.25	0.88	756.25
0	-1259	-1260	S	117	QPN	ZG	0.00	623.75	0.89	623.75
0	-1284	-1282	-	--	M	ZG	0.00	1700.00	0.86	1700.00
0	-1276	-1277	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	-1276	-1277	S	100	QPN	ZG	0.00	756.25	0.88	756.25
0	-1260	-1261	S	117	QPN	ZG	0.00	623.75	0.89	623.75
0	-1286	-1284	-	--	M	ZG	0.00	1700.00	0.86	1700.00
0	-1277	-1278	-	--	M	ZG	0.00	1700.00	0.88	1700.00

0	-1277	-1278	S	100	QPN	ZG	0.00	756.25	0.88	756.25
0	-1261	-1262	S	117	QPN	ZG	0.00	623.75	0.89	623.75
0	-1288	-1286	-	--	M	ZG	0.00	1700.00	0.86	1700.00
0	-1278	-1279	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	-1278	-1279	S	100	QPN	ZG	0.00	756.25	0.88	756.25
0	-1262	-1263	S	117	QPN	ZG	0.00	623.75	0.89	623.75
0	-1290	-1288	-	--	M	ZG	0.00	1700.00	0.86	1700.00
0	-1279	102	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	-1279	102	S	100	QPN	ZG	0.00	756.25	0.88	756.25
0	-1263	126	S	117	QPN	ZG	0.00	623.75	0.53	623.75
0	105	-1290	-	--	M	ZG	0.00	1700.00	0.86	1700.00
0	126	-1264	S	118	QPN	ZG	0.00	623.75	0.91	623.75
0	-1292	105	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1264	-1265	S	118	QPN	ZG	0.00	623.75	0.91	623.75
0	-1294	-1292	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1265	-1266	S	118	QPN	ZG	0.00	623.75	0.91	623.75
0	-1266	-1267	S	118	QPN	ZG	0.00	623.75	0.91	623.75
0	-1296	-1294	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1267	-1268	S	118	QPN	ZG	0.00	623.75	0.80	623.75
0	-1298	-1296	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1268	-1269	S	118	QPN	ZG	0.00	623.75	0.80	623.75
0	-1300	-1298	-	--	M	ZG	0.00	120.00	0.97	120.00
0	109	-1300	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1302	109	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1304	-1302	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1306	-1304	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1308	-1306	-	--	M	ZG	0.00	120.00	0.97	120.00
0	104	-1281	-	--	M	ZG	0.00	120.00	0.86	120.00
0	-1310	-1308	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1281	-1283	-	--	M	ZG	0.00	120.00	0.86	120.00
0	113	-1310	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1283	-1285	-	--	M	ZG	0.00	120.00	0.86	120.00
0	-1312	113	-	--	M	ZG	0.00	120.00	0.93	120.00
0	-1285	-1287	-	--	M	ZG	0.00	120.00	0.86	120.00
0	-1313	-1312	-	--	M	ZG	0.00	120.00	0.93	120.00
0	-1287	-1289	-	--	M	ZG	0.00	120.00	0.86	120.00
0	-1314	-1313	-	--	M	ZG	0.00	120.00	0.93	120.00
0	-1289	-1291	-	--	M	ZG	0.00	120.00	0.86	120.00
0	-1315	-1314	-	--	M	ZG	0.00	120.00	0.93	120.00
0	-1291	108	-	--	M	ZG	0.00	120.00	0.86	120.00
0	117	-1315	-	--	M	ZG	0.00	120.00	0.93	120.00
0	108	-1293	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1316	117	-	--	M	ZG	0.00	120.00	0.87	120.00
0	-1293	-1295	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1317	-1316	-	--	M	ZG	0.00	120.00	0.87	120.00
0	-1295	-1297	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1318	-1317	-	--	M	ZG	0.00	120.00	0.87	120.00
0	-1297	-1299	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1319	-1318	-	--	M	ZG	0.00	120.00	0.87	120.00
0	-1299	-1301	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1320	-1319	-	--	M	ZG	0.00	120.00	0.87	120.00
0	-1301	112	-	--	M	ZG	0.00	120.00	0.97	120.00
0	121	-1320	-	--	M	ZG	0.00	120.00	0.87	120.00
0	-1326	121	-	--	M	ZG	0.00	1700.00	0.55	1700.00
0	112	-1303	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1329	-1326	-	--	M	ZG	0.00	1700.00	0.57	1700.00
0	-1303	-1305	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1332	-1329	-	--	M	ZG	0.00	1700.00	0.57	1700.00
0	-1335	-1332	-	--	M	ZG	0.00	1700.00	1.00	1700.00
0	-1305	-1307	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1338	-1335	-	--	M	ZG	0.00	1700.00	1.00	1700.00
0	-1307	-1309	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1341	-1338	-	--	M	ZG	0.00	1700.00	0.75	1700.00
0	-1309	-1311	-	--	M	ZG	0.00	120.00	0.97	120.00
0	123	-1341	-	--	M	ZG	0.00	1700.00	0.75	1700.00
0	-1311	116	-	--	M	ZG	0.00	120.00	0.97	120.00
0	-1344	123	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	-1344	123	S	116	QPN	ZG	0.00	650.00	0.88	650.00
0	-1345	-1344	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	-1345	-1344	S	116	QPN	ZG	0.00	650.00	0.88	650.00
0	-1346	-1345	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	-1346	-1345	S	116	QPN	ZG	0.00	650.00	0.88	650.00
0	-1347	-1346	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	-1347	-1346	S	116	QPN	ZG	0.00	650.00	0.88	650.00
0	-1348	-1347	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	-1348	-1347	S	116	QPN	ZG	0.00	650.00	0.88	650.00
0	128	127	S	113	QPN	ZG	0.00	650.00	0.53	650.00
0	124	-1348	-	--	M	ZG	0.00	1700.00	0.88	1700.00
0	124	-1348	S	116	QPN	ZG	0.00	650.00	0.88	650.00
0	-1321	128	S	114	QPN	ZG	0.00	650.00	0.91	650.00
0	-1349	124	-	--	M	ZG	0.00	1700.00	0.89	1700.00
0	-1349	124	S	115	QPN	ZG	0.00	650.00	0.89	650.00
0	-1322	-1321	S	114	QPN	ZG	0.00	650.00	0.91	650.00
0	-1350	-1349	-	--	M	ZG	0.00	1700.00	0.89	1700.00
0	-1350	-1349	S	115	QPN	ZG	0.00	650.00	0.89	650.00
0	-1323	-1322	S	114	QPN	ZG	0.00	650.00	0.91	650.00

0	-1324	-1323	S	114	QPN	ZG	0.00	650.00	0.91	650.00
0	-1325	-1324	S	114	QPN	ZG	0.00	650.00	0.80	650.00
0	326	325	S	313	QPN	ZG	0.00	780.00	0.53	780.00
0	-1560	326	S	314	QPN	ZG	0.00	780.00	0.91	780.00
0	-1561	-1560	S	314	QPN	ZG	0.00	780.00	0.91	780.00
0	-1562	-1561	S	314	QPN	ZG	0.00	780.00	0.91	780.00
0	-1351	-1350	-	--	M	ZG	0.00	1700.00	0.89	1700.00
0	-1351	-1350	S	115	QPN	ZG	0.00	650.00	0.89	650.00
0	-1352	-1351	-	--	M	ZG	0.00	1700.00	0.89	1700.00
0	-1352	-1351	S	115	QPN	ZG	0.00	650.00	0.89	650.00
0	-1353	-1352	-	--	M	ZG	0.00	1700.00	0.89	1700.00
0	-1353	-1352	S	115	QPN	ZG	0.00	650.00	0.89	650.00
0	327	-1564	S	314	QPN	ZG	0.00	780.00	0.80	780.00
0	129	-1325	S	114	QPN	ZG	0.00	650.00	0.80	650.00
0	-1563	-1562	S	314	QPN	ZG	0.00	780.00	0.91	780.00
0	-1564	-1563	S	314	QPN	ZG	0.00	780.00	0.80	780.00
101	103	102	-	--	M	ZG	0.00	1700.00	5.00	1700.00
101	103	102	S	101	QPN	ZG	0.00	756.25	5.00	756.25
101	103	102	S	117	QPN	ZG	0.00	623.75	5.00	623.75
101	104	103	-	--	M	ZG	0.00	1700.00	5.25	1700.00
101	104	103	S	102	QPN	ZG	0.00	756.25	5.25	756.25
101	104	103	S	118	QPN	ZG	0.00	623.75	5.25	623.75
102	106	105	S	100	QPN	ZG	0.00	756.25	5.25	756.25
102	106	105	S	105	QPN	ZG	0.00	725.00	5.25	725.00
102	107	106	S	101	QPN	ZG	0.00	756.25	5.00	756.25
102	107	106	S	104	QPN	ZG	0.00	725.00	5.00	725.00
102	108	107	S	102	QPN	ZG	0.00	756.25	5.25	756.25
102	108	107	S	103	QPN	ZG	0.00	725.00	5.25	725.00
103	110	109	S	105	QPN	ZG	0.00	725.00	5.25	725.00
103	110	109	S	106	QPN	ZG	0.00	725.00	5.25	725.00
103	111	110	S	104	QPN	ZG	0.00	725.00	5.00	725.00
103	111	110	S	107	QPN	ZG	0.00	725.00	5.00	725.00
103	112	111	S	103	QPN	ZG	0.00	725.00	5.25	725.00
103	112	111	S	108	QPN	ZG	0.00	725.00	5.25	725.00
104	114	113	S	106	QPN	ZG	0.00	725.00	5.25	725.00
104	114	113	S	111	QPN	ZG	0.00	583.75	5.25	583.75
104	115	114	S	107	QPN	ZG	0.00	725.00	5.00	725.00
104	115	114	S	110	QPN	ZG	0.00	583.75	5.00	583.75
104	116	115	S	108	QPN	ZG	0.00	725.00	5.25	725.00
104	116	115	S	109	QPN	ZG	0.00	583.75	5.25	583.75
105	118	117	S	111	QPN	ZG	0.00	583.75	5.25	583.75
105	118	117	S	112	QPN	ZG	0.00	650.00	5.25	650.00
105	119	118	S	110	QPN	ZG	0.00	583.75	5.00	583.75
105	119	118	S	113	QPN	ZG	0.00	650.00	5.00	650.00
105	120	119	S	109	QPN	ZG	0.00	583.75	5.25	583.75
105	120	119	S	114	QPN	ZG	0.00	650.00	5.25	650.00
106	122	121	S	112	QPN	ZG	0.00	650.00	5.25	650.00
106	122	121	S	116	QPN	ZG	4.38	650.00	5.25	650.00
106	122	121	S	116	QPN	ZG	0.00	650.00	4.38	650.00
106	127	122	S	113	QPN	ZG	0.00	650.00	4.47	650.00
106	127	122	S	115	QPN	ZG	0.00	650.00	4.47	650.00
111	120	116	-	--	M	ZG	0.00	120.00	4.67	120.00
111	129	120	-	--	M	ZG	0.00	120.00	5.20	120.00
208	205	-1444	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1444	-1447	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1447	-1450	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1450	-1453	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1453	-1456	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1456	209	-	--	M	ZG	0.00	300.00	0.97	300.00
208	209	-1461	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1461	-1464	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1464	-1467	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1467	-1470	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1470	-1473	-	--	M	ZG	0.00	300.00	0.97	300.00
208	-1473	213	-	--	M	ZG	0.00	300.00	0.97	300.00
208	213	-1478	-	--	M	ZG	0.00	300.00	0.93	300.00
208	-1478	-1481	-	--	M	ZG	0.00	300.00	0.93	300.00
208	-1481	-1484	-	--	M	ZG	0.00	300.00	0.93	300.00
208	-1484	-1487	-	--	M	ZG	0.00	300.00	0.93	300.00
208	-1487	217	-	--	M	ZG	0.00	300.00	0.93	300.00
208	217	-1492	-	--	M	ZG	0.00	300.00	0.87	300.00
208	-1492	-1495	-	--	M	ZG	0.00	300.00	0.87	300.00
208	-1495	-1498	-	--	M	ZG	0.00	300.00	0.87	300.00
208	-1498	-1501	-	--	M	ZG	0.00	300.00	0.87	300.00
208	-1501	-1504	-	--	M	ZG	0.00	300.00	0.87	300.00
208	-1504	221	-	--	M	ZG	0.00	300.00	0.87	300.00
211	208	204	-	--	M	ZG	0.00	300.00	6.05	300.00
211	212	208	-	--	M	ZG	0.00	300.00	5.80	300.00
211	216	212	-	--	M	ZG	0.00	300.00	5.80	300.00
211	220	216	-	--	M	ZG	0.00	300.00	4.67	300.00
211	222	220	-	--	M	ZG	0.00	300.00	5.20	300.00
301	302	301	-	--	M	ZG	0.00	550.00	5.25	550.00
301	302	301	S	300	QPN	ZG	0.00	907.50	5.25	907.50
301	303	302	-	--	M	ZG	0.00	550.00	5.00	550.00
301	303	302	S	301	QPN	ZG	0.00	907.50	5.00	907.50
301	304	303	-	--	M	ZG	0.00	550.00	5.25	550.00

301	304	303	S	302	QPN	ZG	0.00	907.50	5.25	907.50
302	306	305	S	300	QPN	ZG	0.00	907.50	5.25	907.50
302	306	305	S	303	QPN	ZG	0.00	870.00	5.25	870.00
302	307	306	S	301	QPN	ZG	0.00	907.50	5.00	907.50
302	307	306	S	304	QPN	ZG	0.00	870.00	5.00	870.00
302	308	307	S	302	QPN	ZG	0.00	907.50	5.25	907.50
302	308	307	S	305	QPN	ZG	0.00	870.00	5.25	870.00
303	310	309	S	303	QPN	ZG	0.00	870.00	5.25	870.00
303	310	309	S	306	QPN	ZG	0.00	870.00	5.25	870.00
303	311	310	S	304	QPN	ZG	0.00	870.00	5.00	870.00
303	311	310	S	307	QPN	ZG	0.00	870.00	5.00	870.00
303	312	311	S	305	QPN	ZG	0.00	870.00	5.25	870.00
303	312	311	S	308	QPN	ZG	0.00	870.00	5.25	870.00
304	314	313	S	306	QPN	ZG	0.00	870.00	5.25	870.00
304	314	313	S	309	QPN	ZG	0.00	700.50	5.25	700.50
304	315	314	S	307	QPN	ZG	0.00	870.00	5.00	870.00
304	315	314	S	310	QPN	ZG	0.00	700.50	5.00	700.50
304	316	315	S	308	QPN	ZG	0.00	870.00	5.25	870.00
304	316	315	S	311	QPN	ZG	0.00	700.50	5.25	700.50
305	318	317	S	309	QPN	ZG	0.00	700.50	5.25	700.50
305	318	317	S	312	QPN	ZG	0.00	780.00	5.25	780.00
305	319	318	S	310	QPN	ZG	0.00	700.50	5.00	700.50
305	319	318	S	313	QPN	ZG	0.00	780.00	5.00	780.00
305	320	319	S	311	QPN	ZG	0.00	700.50	5.25	700.50
305	320	319	S	314	QPN	ZG	0.00	780.00	5.25	780.00
306	322	321	S	312	QPN	ZG	0.00	780.00	5.25	780.00
306	322	321	S	315	QPN	ZG	0.00	780.00	5.25	780.00
306	325	322	S	313	QPN	ZG	0.00	780.00	4.47	780.00
306	325	322	S	316	QPN	ZG	0.00	780.00	4.47	780.00
307	323	324	-	--	M	ZG	0.00	550.00	5.25	550.00
307	323	324	S	315	QPN	ZG	0.00	780.00	5.25	780.00
307	324	328	-	--	M	ZG	0.00	550.00	4.47	550.00
307	324	328	S	316	QPN	ZG	0.00	780.00	4.47	780.00
308	301	305	-	--	M	ZG	0.00	550.00	6.05	550.00
308	305	309	-	--	M	ZG	0.00	550.00	5.80	550.00
308	309	313	-	--	M	ZG	0.00	550.00	5.80	550.00
308	313	317	-	--	M	ZG	0.00	550.00	4.67	550.00
308	317	321	-	--	M	ZG	0.00	550.00	5.20	550.00
308	321	323	-	--	M	ZG	0.00	550.00	5.20	550.00
311	308	304	-	--	M	ZG	0.00	550.00	6.05	550.00
311	312	308	-	--	M	ZG	0.00	550.00	5.80	550.00
311	316	312	-	--	M	ZG	0.00	550.00	5.80	550.00
311	320	316	-	--	M	ZG	0.00	550.00	4.67	550.00
311	327	320	-	--	M	ZG	0.00	550.00	5.20	550.00

Condizione di carico n. 3: Q (categ. C)
Carichi distribuiti

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	101	-1275	S	100	QA	ZG	0.00	1512.50	0.88	1512.50
0	-1275	-1276	S	100	QA	ZG	0.00	1512.50	0.88	1512.50
0	-1276	-1277	S	100	QA	ZG	0.00	1512.50	0.88	1512.50
0	-1277	-1278	S	100	QA	ZG	0.00	1512.50	0.88	1512.50
0	-1278	-1279	S	100	QA	ZG	0.00	1512.50	0.88	1512.50
0	-1279	102	S	100	QA	ZG	0.00	1512.50	0.88	1512.50
0	126	-1264	S	118	QA	ZG	0.00	1247.50	0.91	1247.50
0	-1265	-1266	S	118	QA	ZG	0.00	1247.50	0.91	1247.50
0	-1267	-1268	S	118	QA	ZG	0.00	1247.50	0.80	1247.50
0	-1344	123	S	116	QA	ZG	0.00	1300.00	0.88	1300.00
0	-1346	-1345	S	116	QA	ZG	0.00	1300.00	0.88	1300.00
0	-1348	-1347	S	116	QA	ZG	0.00	1300.00	0.88	1300.00
0	124	-1348	S	116	QA	ZG	0.00	1300.00	0.88	1300.00
0	-1349	124	S	115	QA	ZG	0.00	1300.00	0.89	1300.00
0	-1350	-1349	S	115	QA	ZG	0.00	1300.00	0.89	1300.00
0	-1324	-1323	S	114	QA	ZG	0.00	1300.00	0.91	1300.00
0	326	325	S	313	QA	ZG	0.00	780.00	0.53	780.00
0	-1561	-1560	S	314	QA	ZG	0.00	780.00	0.91	780.00
0	-1351	-1350	S	115	QA	ZG	0.00	1300.00	0.89	1300.00
0	-1353	-1352	S	115	QA	ZG	0.00	1300.00	0.89	1300.00
0	129	-1325	S	114	QA	ZG	0.00	1300.00	0.80	1300.00

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	125	-1259	S	117	QA	ZG	0.00	1247.50	0.89	1247.50
0	-1259	-1260	S	117	QA	ZG	0.00	1247.50	0.89	1247.50
0	-1260	-1261	S	117	QA	ZG	0.00	1247.50	0.89	1247.50
0	-1261	-1262	S	117	QA	ZG	0.00	1247.50	0.89	1247.50
0	-1262	-1263	S	117	QA	ZG	0.00	1247.50	0.89	1247.50
0	-1263	126	S	117	QA	ZG	0.00	1247.50	0.53	1247.50
0	-1264	-1265	S	118	QA	ZG	0.00	1247.50	0.91	1247.50
0	-1266	-1267	S	118	QA	ZG	0.00	1247.50	0.91	1247.50
0	-1268	-1269	S	118	QA	ZG	0.00	1247.50	0.80	1247.50
0	-1345	-1344	S	116	QA	ZG	0.00	1300.00	0.88	1300.00
0	-1347	-1346	S	116	QA	ZG	0.00	1300.00	0.88	1300.00
0	128	127	S	113	QA	ZG	0.00	1300.00	0.53	1300.00
0	-1321	128	S	114	QA	ZG	0.00	1300.00	0.91	1300.00
0	-1322	-1321	S	114	QA	ZG	0.00	1300.00	0.91	1300.00
0	-1323	-1322	S	114	QA	ZG	0.00	1300.00	0.91	1300.00
0	-1325	-1324	S	114	QA	ZG	0.00	1300.00	0.80	1300.00
0	-1560	326	S	314	QA	ZG	0.00	780.00	0.91	780.00
0	-1562	-1561	S	314	QA	ZG	0.00	780.00	0.91	780.00
0	-1352	-1351	S	115	QA	ZG	0.00	1300.00	0.89	1300.00
0	327	-1564	S	314	QA	ZG	0.00	780.00	0.80	780.00
0	-1563	-1562	S	314	QA	ZG	0.00	780.00	0.91	780.00

0	-1564	-1563	S	314	QA	ZG	0.00	780.00	0.80	780.00
101	103	102	S	117	QA	ZG	0.00	1247.50	5.00	1247.50
101	104	103	S	118	QA	ZG	0.00	1247.50	5.25	1247.50
102	106	105	S	105	QA	ZG	0.00	1450.00	5.25	1450.00
102	107	106	S	104	QA	ZG	0.00	1450.00	5.00	1450.00
102	108	107	S	103	QA	ZG	0.00	1450.00	5.25	1450.00
103	110	109	S	106	QA	ZG	0.00	1450.00	5.25	1450.00
103	111	110	S	107	QA	ZG	0.00	1450.00	5.00	1450.00
103	112	111	S	108	QA	ZG	0.00	1450.00	5.25	1450.00
104	114	113	S	111	QA	ZG	0.00	1167.50	5.25	1167.50
104	115	114	S	110	QA	ZG	0.00	1167.50	5.00	1167.50
104	116	115	S	109	QA	ZG	0.00	1167.50	5.25	1167.50
105	118	117	S	112	QA	ZG	0.00	1300.00	5.25	1300.00
105	119	118	S	113	QA	ZG	0.00	1300.00	5.00	1300.00
105	120	119	S	114	QA	ZG	0.00	1300.00	5.25	1300.00
106	122	121	S	116	QA	ZG	4.38	1300.00	5.25	1300.00
106	127	122	S	113	QA	ZG	0.00	1300.00	4.47	1300.00
301	302	301	S	300	QA	ZG	0.00	907.50	5.25	907.50
301	304	303	S	302	QA	ZG	0.00	907.50	5.25	907.50
302	306	305	S	303	QA	ZG	0.00	870.00	5.25	870.00
302	307	306	S	304	QA	ZG	0.00	870.00	5.00	870.00
302	308	307	S	305	QA	ZG	0.00	870.00	5.25	870.00
303	310	309	S	306	QA	ZG	0.00	870.00	5.25	870.00
303	311	310	S	307	QA	ZG	0.00	870.00	5.00	870.00
303	312	311	S	308	QA	ZG	0.00	870.00	5.25	870.00
304	314	313	S	309	QA	ZG	0.00	700.50	5.25	700.50
304	315	314	S	310	QA	ZG	0.00	700.50	5.00	700.50
304	316	315	S	311	QA	ZG	0.00	700.50	5.25	700.50
305	318	317	S	312	QA	ZG	0.00	780.00	5.25	780.00
305	319	318	S	313	QA	ZG	0.00	780.00	5.00	780.00
305	320	319	S	314	QA	ZG	0.00	780.00	5.25	780.00
306	322	321	S	315	QA	ZG	0.00	780.00	5.25	780.00
306	325	322	S	316	QA	ZG	0.00	780.00	4.47	780.00
307	324	328	S	316	QA	ZG	0.00	780.00	4.47	780.00

101	103	102	S	101	QA	ZG	0.00	1512.50	5.00	1512.50
101	104	103	S	102	QA	ZG	0.00	1512.50	5.25	1512.50
102	106	105	S	100	QA	ZG	0.00	1512.50	5.25	1512.50
102	107	106	S	101	QA	ZG	0.00	1512.50	5.00	1512.50
102	108	107	S	102	QA	ZG	0.00	1512.50	5.25	1512.50
103	110	109	S	105	QA	ZG	0.00	1450.00	5.25	1450.00
103	111	110	S	104	QA	ZG	0.00	1450.00	5.00	1450.00
103	112	111	S	103	QA	ZG	0.00	1450.00	5.25	1450.00
104	114	113	S	106	QA	ZG	0.00	1450.00	5.25	1450.00
104	115	114	S	107	QA	ZG	0.00	1450.00	5.00	1450.00
104	116	115	S	108	QA	ZG	0.00	1450.00	5.25	1450.00
105	118	117	S	111	QA	ZG	0.00	1167.50	5.25	1167.50
105	119	118	S	110	QA	ZG	0.00	1167.50	5.00	1167.50
105	120	119	S	109	QA	ZG	0.00	1167.50	5.25	1167.50
106	122	121	S	112	QA	ZG	0.00	1300.00	5.25	1300.00
106	122	121	S	116	QA	ZG	0.00	1300.00	4.38	1300.00
106	127	122	S	115	QA	ZG	0.00	1300.00	4.47	1300.00
301	303	302	S	301	QA	ZG	0.00	907.50	5.00	907.50
302	306	305	S	300	QA	ZG	0.00	907.50	5.25	907.50
302	307	306	S	301	QA	ZG	0.00	907.50	5.00	907.50
302	308	307	S	302	QA	ZG	0.00	907.50	5.25	907.50
303	310	309	S	303	QA	ZG	0.00	870.00	5.25	870.00
303	311	310	S	304	QA	ZG	0.00	870.00	5.00	870.00
303	312	311	S	305	QA	ZG	0.00	870.00	5.25	870.00
304	314	313	S	306	QA	ZG	0.00	870.00	5.25	870.00
304	315	314	S	307	QA	ZG	0.00	870.00	5.00	870.00
304	316	315	S	308	QA	ZG	0.00	870.00	5.25	870.00
305	318	317	S	309	QA	ZG	0.00	700.50	5.25	700.50
305	319	318	S	310	QA	ZG	0.00	700.50	5.00	700.50
305	320	319	S	311	QA	ZG	0.00	700.50	5.25	700.50
306	322	321	S	312	QA	ZG	0.00	780.00	5.25	780.00
306	325	322	S	313	QA	ZG	0.00	780.00	4.47	780.00
307	323	324	S	315	QA	ZG	0.00	780.00	5.25	780.00

Condizione di carico n. 6: Q (neve)
Carichi distribuiti

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
0	125	-1259	S	117	QA2	ZG	0.00	199.60	0.89	199.60
0	-1259	-1260	S	117	QA2	ZG	0.00	199.60	0.89	199.60
0	-1260	-1261	S	117	QA2	ZG	0.00	199.60	0.89	199.60
0	-1261	-1262	S	117	QA2	ZG	0.00	199.60	0.89	199.60
0	-1262	-1263	S	117	QA2	ZG	0.00	199.60	0.89	199.60
0	-1263	126	S	117	QA2	ZG	0.00	199.60	0.53	199.60
0	126	-1264	S	118	QA2	ZG	0.00	199.60	0.91	199.60
0	-1264	-1265	S	118	QA2	ZG	0.00	199.60	0.91	199.60
0	-1265	-1266	S	118	QA2	ZG	0.00	199.60	0.91	199.60
0	-1266	-1267	S	118	QA2	ZG	0.00	199.60	0.91	199.60
0	-1267	-1268	S	118	QA2	ZG	0.00	199.60	0.80	199.60
0	-1268	-1269	S	118	QA2	ZG	0.00	199.60	0.80	199.60
0	326	325	S	313	QA2	ZG	0.00	208.00	0.53	208.00
0	-1560	326	S	314	QA2	ZG	0.00	208.00	0.91	208.00
0	-1561	-1560	S	314	QA2	ZG	0.00	208.00	0.91	208.00
0	-1562	-1561	S	314	QA2	ZG	0.00	208.00	0.91	208.00
0	327	-1564	S	314	QA2	ZG	0.00	208.00	0.80	208.00
0	-1563	-1562	S	314	QA2	ZG	0.00	208.00	0.91	208.00
0	-1564	-1563	S	314	QA2	ZG	0.00	208.00	0.80	208.00
101	103	102	S	117	QA2	ZG	0.00	199.60	5.00	199.60
101	104	103	S	118	QA2	ZG	0.00	199.60	5.25	199.60
301	302	301	S	300	QA2	ZG	0.00	242.00	5.25	242.00

301	303	302	S	301	QA2	ZG	0.00	242.00	5.00	242.00
301	304	303	S	302	QA2	ZG	0.00	242.00	5.25	242.00
302	306	305	S	300	QA2	ZG	0.00	242.00	5.25	242.00
302	306	305	S	303	QA2	ZG	0.00	232.00	5.25	232.00
302	307	306	S	301	QA2	ZG	0.00	242.00	5.00	242.00
302	307	306	S	304	QA2	ZG	0.00	232.00	5.00	232.00
302	308	307	S	302	QA2	ZG	0.00	242.00	5.25	242.00
302	308	307	S	305	QA2	ZG	0.00	232.00	5.25	232.00
303	310	309	S	303	QA2	ZG	0.00	232.00	5.25	232.00
303	310	309	S	306	QA2	ZG	0.00	232.00	5.25	232.00
303	311	310	S	304	QA2	ZG	0.00	232.00	5.00	232.00
303	311	310	S	307	QA2	ZG	0.00	232.00	5.00	232.00
303	312	311	S	305	QA2	ZG	0.00	232.00	5.25	232.00
303	312	311	S	308	QA2	ZG	0.00	232.00	5.25	232.00
304	314	313	S	306	QA2	ZG	0.00	232.00	5.25	232.00
304	314	313	S	309	QA2	ZG	0.00	186.80	5.25	186.80
304	315	314	S	307	QA2	ZG	0.00	232.00	5.00	232.00
304	315	314	S	310	QA2	ZG	0.00	186.80	5.00	186.80
304	316	315	S	308	QA2	ZG	0.00	232.00	5.25	232.00
304	316	315	S	311	QA2	ZG	0.00	186.80	5.25	186.80
305	318	317	S	309	QA2	ZG	0.00	186.80	5.25	186.80
305	318	317	S	312	QA2	ZG	0.00	208.00	5.25	208.00
305	319	318	S	310	QA2	ZG	0.00	186.80	5.00	186.80
305	319	318	S	313	QA2	ZG	0.00	208.00	5.00	208.00
305	320	319	S	311	QA2	ZG	0.00	186.80	5.25	186.80
305	320	319	S	314	QA2	ZG	0.00	208.00	5.25	208.00
306	322	321	S	312	QA2	ZG	0.00	208.00	5.25	208.00
306	322	321	S	315	QA2	ZG	0.00	208.00	5.25	208.00
306	325	322	S	313	QA2	ZG	0.00	208.00	4.47	208.00
306	325	322	S	316	QA2	ZG	0.00	208.00	4.47	208.00
307	323	324	S	315	QA2	ZG	0.00	208.00	5.25	208.00
307	324	328	S	316	QA2	ZG	0.00	208.00	4.47	208.00

Elenco carichi elementi bidimensionaliElenco peso proprio elementi bidimensionali

Simbologia

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

Tb	Comm.	Spess. <cm>	Mat.	P <daN/mc>	PQ <daN/mq>
1	platea 40cm	40.00	Calcestruzzo classe C25/30	2500.00	1000.00
2	setti scala 25cm	25.00	Calcestruzzo classe C30/37	2500.00	625.00
3	pareti 20cm	20.00	Calcestruzzo classe C30/37	2500.00	500.00
4	solette elevazione	15.00	Calcestruzzo classe C30/37	2500.00	375.00

Condizione di carico n. 2: G2
Carichi uniformi

Simbologia

Bid. = Numero del muro/elemento bidimensionale
DC = Direzione del carico
G = secondo gli assi globali
L = secondo gli assi locali
N1 = Nodo1
N2 = Nodo2
N3 = Nodo3
N4 = Nodo4
Qx = Carico in dir. X
Qy = Carico in dir. Y
Qz = Carico in dir. Z
T = Tipo di carico
PP = Peso proprio
M = Manuale

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
704	--	--	--	--	M	G	0.00	0.00	200.00
706	--	--	--	--	M	G	0.00	0.00	200.00

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
705	--	--	--	--	M	G	0.00	0.00	100.00

Condizione di carico n. 4: Q (categ. F)
Carichi uniformi

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
704	--	--	--	--	M	G	0.00	0.00	250.00

Condizione di carico n. 5: Q (categ. H)

Carichi uniformi

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
705	--	--	--	--	M	G	0.00	0.00	50.00

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
706	--	--	--	--	M	G	0.00	0.00	50.00

Condizione di carico n. 6: Q (neve)
Carichi uniformi

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
705	--	--	--	--	M	G	0.00	0.00	80.00

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
706	--	--	--	--	M	G	0.00	0.00	80.00

Risultati del calcolo

Parametri di calcolo

La modellazione della struttura e la rielaborazione dei risultati del calcolo sono stati effettuati con:
ModeSt ver. 8.26, licenza n. 5890, prodotto da Tecnisoft s.a.s. - Prato
La struttura è stata calcolata utilizzando come solutore agli elementi finiti:
Xfinest ver. 9.3.5, licenza n. 815, prodotto da Ce.A.S. S.r.l. - Milano

Tipo di normativa: stati limite D.M. 18
Tipo di calcolo: sismica dinamica
Vincoli esterni: Considera sempre vincoli assegnati in modellazione
Schematizzazione piani rigidi:
  Imp.1: controventatura solai
  Imp.2: impalcato non rigido
  Imp.3: controventatura solai
  Imp.4: impalcato non rigido
Modalità di recupero masse secondarie: trasferire le masse
- All'impalcato più vicino in assoluto: No
- Anche sui nodi degli impalcati non rigidi: Sì
- 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: No
- 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: Sì
- 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
- Opzioni aggiuntive per analisi non lineari in presenza di elementi bidimensionali con comportamento Drucker-Prager:

OPTION PARAM CONV=E
OPTION PARAM RESENORM=1.E-8
OPTION PARAM AUTO_INCREMENT=YES
OPTION PARAM LINE_SEARCHES=YES
OPTION PARAM BGINCRS=1.0
OPTION PARAM AVINCRS=1.0

Dati struttura

- Sito di costruzione: Ponte a Elsa - Empoli LON. 10.90290 LAT. 43.69458
  Contenuto tra ID reticolo: 20276 20275 20498 20497

Simbologia

Ag = Accelerazione orizzontale massima al sito
C_C = Coefficiente funzione della categoria del suolo
Fo = Valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale
S_S = Coefficiente di amplificazione stratigrafica
T_R = Periodo di ritorno <anni>
TCC = Tipo di combinazione di carico
  SLU = Stato limite ultimo
  SLE R = Stato limite d'esercizio, combinazione rara
  SLE F = Stato limite d'esercizio, combinazione frequente
  SLE Q = Stato limite d'esercizio, combinazione quasi permanente
  SLD = Stato limite di danno

SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tc* = Periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale <sec>

TCC	T_R	Ag <g>	Fo	Tc*	S_S	C_C
SLD	50	0.0539	2.56	0.26	1.50	1.64
SLV	475	0.1244	2.53	0.29	1.50	1.59

- Edificio esistente: No
- Spettri: Automatici da normativa
- Tipo di opera: Opera ordinaria
- Vita nominale V_N: 50.00
- Classe d'uso: Classe II
- SL Esercizio: SLOPvr No, SLDPvr 63.00
- SL Ultimi: SLVPvr 10.00, SLCPvr No
- Struttura dissipativa: Sì
- Classe di duttilità: Classe B
- Quota di riferimento: 0.00 <m>
- Quota max della struttura: 11.00 <m>
- Altezza della struttura: 11.00 <m>
- Numero piani edificio: 3
- Coefficiente θ: 0.00
- Edificio regolare in altezza: No
- Edificio regolare in pianta: Sì
- Forze orizzontali convenzionali per stati limite non sismici: 1.00%
- Genera stati limite per verifiche di resistenza al fuoco: No

Dati di piano

Simbologia

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

Imp.	Lx <m>	Ly <m>	Ex <m>	Ey <m>	Ea <m>
1	15.50	37.71	0.78	1.89	2.04
2	15.50	32.72	0.78	1.64	1.81
3	15.50	32.72	0.78	1.64	1.81
4	5.78	5.20	0.29	0.26	0.39

Dati di calcolo

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

Periodo T_1	0.17951
Coeff. λ SLD	0.85
Coeff. λ SLV	0.85
Rapporto di sovraresistenza (α_u/α_1)	1.30
Valore di riferimento del fattore di comportamento (q_0)	3.90
Fattore riduttivo (K_w)	1.00
Fattore riduttivo regolarità in altezza (KR)	0.80
Fattore di comportamento dissipativo (q)	3.12
Fattore di comportamento non dissipativo (qND)	1.50
Fattore di comportamento per SLD (qD)	1.00

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

  7) Forze dir. X
  Numero modi: 5
  8) Forze dir. Y
  Numero modi: 4
- Modi da considerare: Tali da movimentare una percentuale di massa pari a 85.00%
- Trascura modi con massa movimentata minore di: 5.00%
- Smorzamento spettro: 5.00%

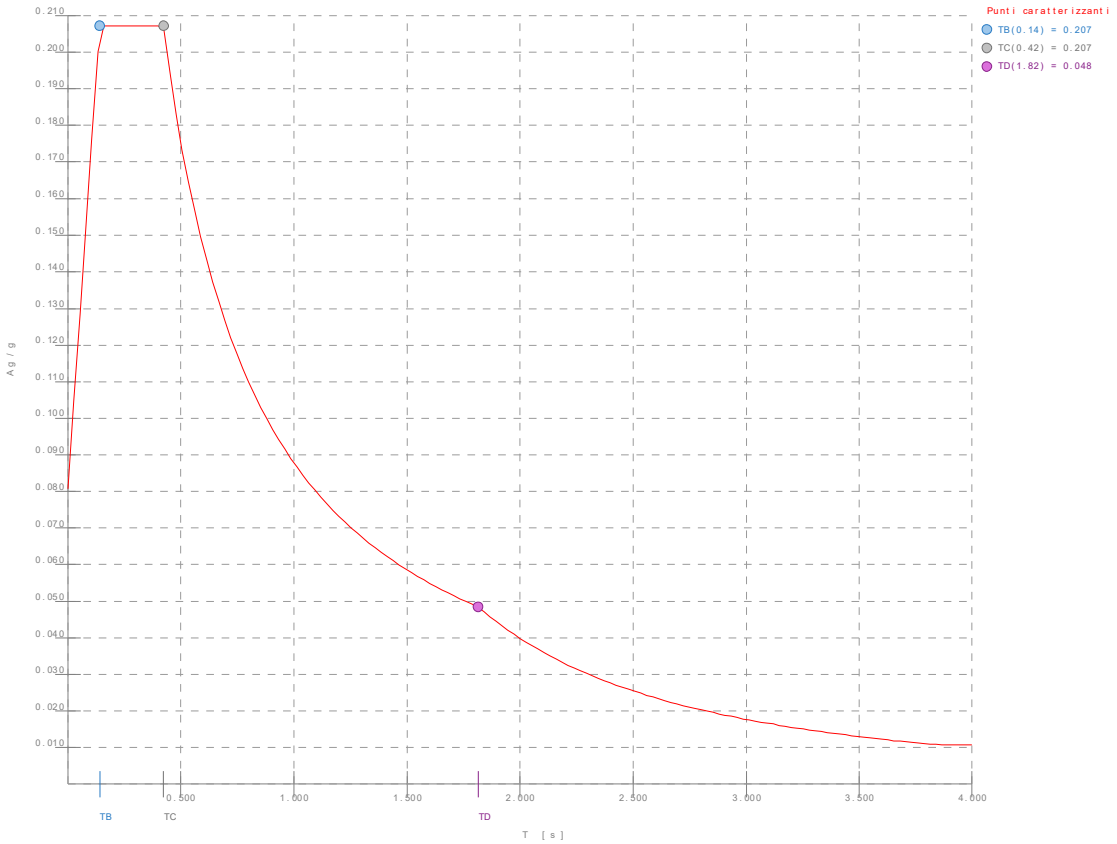

Figura numero 1: Spettro SLD

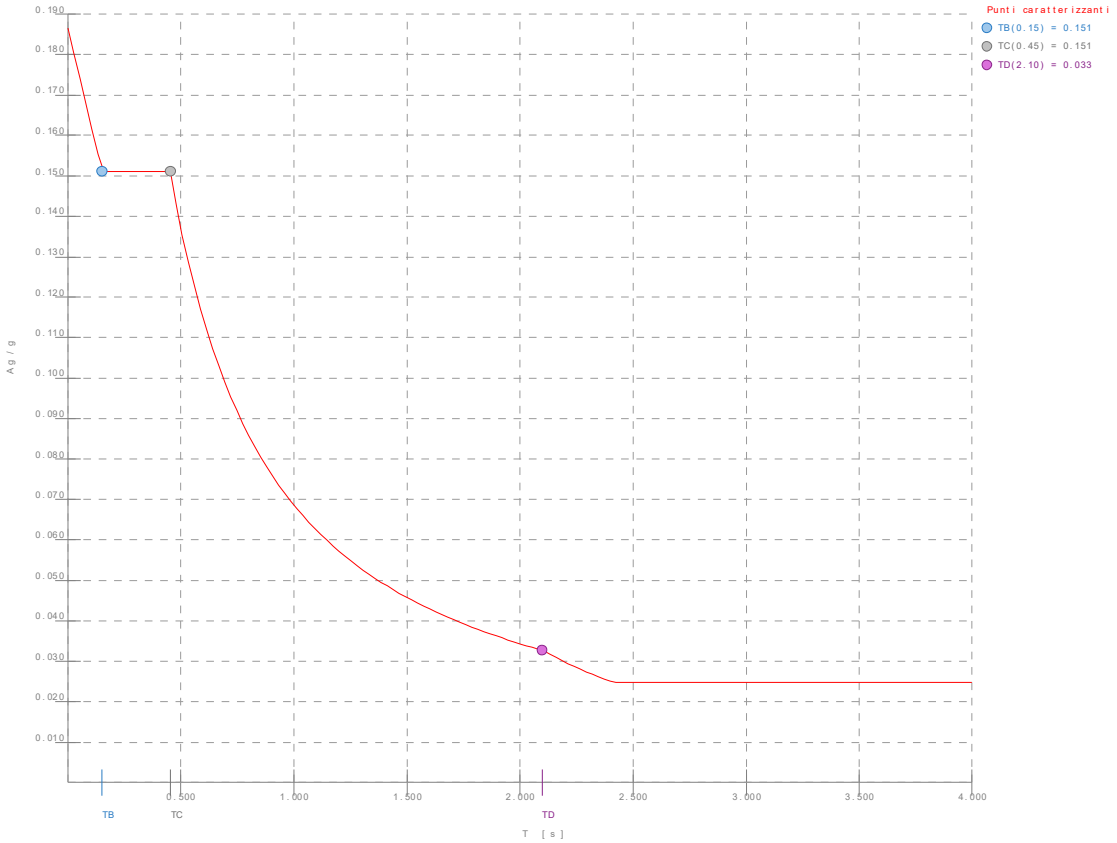

Figura numero 2: Spettro SLV

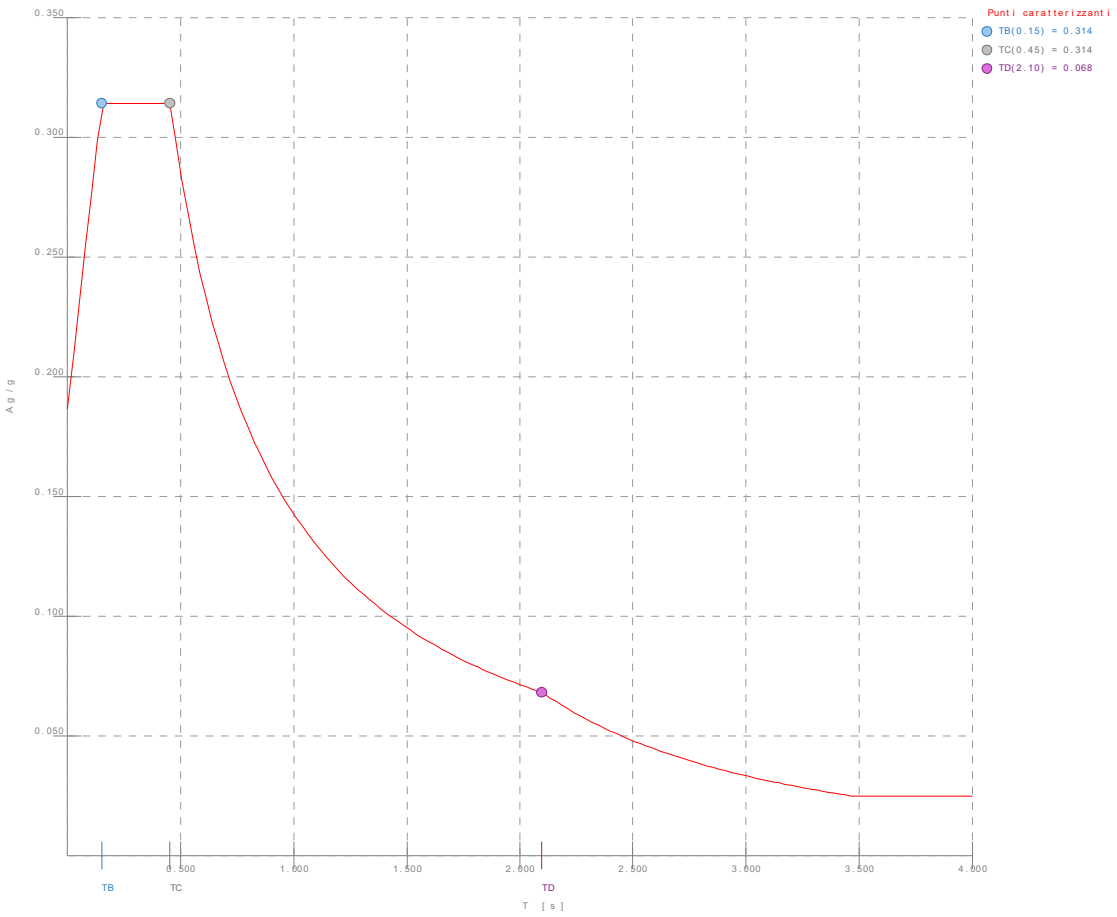

Figura numero 3: Spettro SND

- Angolo di ingresso del sisma: 0.00 <grad>

Ambienti di carico
Simbologia

N = Numero
Comm. = Commento
1 = G1
2 = G2
3 = Q (categ. C)
4 = Q (categ. F)
5 = Q (categ. H)
6 = Q (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 = Sì
N = No

N	Comm.	1	2	3	4	5	6	F	S	SLU	SLR	SLF	SLQ
1	Calcolo sismico	S	S	S	S	S	S	N	S	S	N	N	N
2	Calcolo statico	S	S	S	S	S	S	N	N	S	S	S	S

Elenco combinazioni di carico simboliche

Simbologia

CC = Numero della combinazione delle condizioni di carico elementari
Comm. = Commento
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)

CC	Comm.	TCC	1	2	3	4	5	6	F	S
1	Amb. 1 (Sisma)	SLU S	1	1	ψ_2	ψ_2	ψ_2	ψ_2	-----	1

2	Amb. 2 (SLU)	SLU	γ max	γ max	γ max	ψ_0*γ max	ψ_0*γ max	ψ_0*γ max	-----	-----
3	Amb. 2 (SLE R)	SLE R	1	1	1	ψ_0	ψ_0	ψ_0	-----	-----
4	Amb. 2 (SLE F)	SLE F	1	1	ψ_1	ψ_2	ψ_2	ψ_2	-----	-----
5	Amb. 2 (SLE Q)	SLE Q	1	1	ψ_2	ψ_2	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

An. = Tipo di analisi
L = Lineare
NL = Non lineare
Bk = Buckling
S = Sì
N = No
CC = Numero della combinazione delle condizioni di carico elementari
Comm. = Commento
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)

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

Elenco masse nodi

Simbologia

Mo = Massa orizzontale
Nodo = Numero del nodo

Nodo	Mo <kg>	Nodo	Mo <kg>	Nodo	Mo <kg>	Nodo	Mo <kg>	Nodo	Mo <kg>	Nodo	Mo <kg>
-1726	1778.94	-1725	532.62	-1724	2206.96	-1723	3881.29	-1722	3881.29	-1721	3881.29
-1720	3067.82	-1719	1322.26	-1718	3201.09	-1717	351.68	-1716	376.41	-1715	401.14
-1714	401.14	-1713	401.14	-1712	317.06	-1711	1597.76	-1710	2227.46	-1709	410.30
-1708	439.14	-1707	467.99	-1706	467.99	-1705	467.99	-1704	369.91	-1703	1864.06
-1702	1253.82	-1701	468.91	-1700	501.88	-1699	534.85	-1698	534.85	-1697	534.85
-1696	422.75	-1695	2130.35	-1694	1854.01	-1693	369.27	-1692	395.23	-1691	421.19
-1690	421.19	-1689	421.19	-1688	332.92	-1687	1677.65	-1686	2454.18	-1685	269.62
-1684	288.58	-1683	307.54	-1682	307.54	-1681	307.54	-1680	243.08	-1679	1224.95
-1678	2400.81	-1677	263.76	-1676	282.31	-1675	300.85	-1674	300.85	-1673	300.85
-1672	237.80	-1671	1198.33	-1670	1397.62	-1669	1708.97	-1668	1829.13	-1667	1949.29
-1666	1949.29	-1665	1949.29	-1664	1540.74	-1663	1109.23	-1582	182.17	-1581	221.64
-1580	443.29	-1579	443.29	-1578	443.29	-1577	350.38	-1576	364.35	-1575	1908.33
-1574	265.79	-1573	2226.38	-1572	167.24	-1571	2544.44	-1570	223.29	-1569	2003.74
-1568	279.33	-1567	1463.05	-1566	273.26	-1565	1431.25	-1564	3901.40	-1563	4175.72
-1562	4450.03	-1561	4450.03	-1560	4450.04	-1532	152.31	-1531	185.31	-1530	370.62
-1529	370.62	-1528	370.62	-1527	292.94	-1526	259.94	-1525	304.62	-1524	304.62
-1523	355.38	-1522	355.38	-1521	406.15	-1520	406.15	-1519	319.85	-1518	319.85
-1517	233.54	-1516	233.54	-1515	228.46	-1514	228.46	-1513	324.92	-1512	347.77
-1511	370.62	-1510	370.62	-1509	370.62	-1508	292.94	-1507	219.32	-1504	941.25
-1501	1011.18	-1498	1081.12	-1495	1151.06	-1492	1221.00	-1487	1365.28	-1484	1339.32

-1481	1313.36	-1478	1287.39	-1473	1277.74	-1470	1249.93	-1467	1222.12	-1464	1194.31
-1461	1166.50	-1456	1110.89	-1453	1083.08	-1450	1055.27	-1447	1027.46	-1444	999.65
-1360	1264.09	-1359	1189.26	-1358	1409.14	-1357	1629.01	-1356	1629.01	-1355	1629.01
-1354	1287.59	-1353	3574.23	-1352	4863.38	-1351	4863.38	-1350	4863.38	-1349	4863.38
-1348	4760.02	-1347	4760.02	-1346	4760.02	-1345	4760.02	-1344	4760.02	-1343	1338.92
-1342	1338.92	-1341	2191.64	-1340	828.73	-1339	1562.07	-1338	2556.91	-1337	318.55
-1336	1785.22	-1335	2922.19	-1334	672.53	-1333	1405.86	-1332	2301.23	-1331	1026.50
-1330	1026.50	-1329	1680.26	-1328	1004.19	-1327	1004.19	-1326	1643.73	-1325	3442.45
-1324	3684.50	-1323	3926.54	-1322	3926.54	-1321	3926.54	-1320	1136.71	-1319	1136.71
-1318	1136.71	-1317	1136.71	-1316	1136.71	-1315	1225.02	-1314	1225.02	-1313	1225.02
-1312	1225.02	-1311	1267.87	-1310	1267.87	-1309	1267.87	-1308	1267.87	-1307	1267.87
-1306	1267.87	-1305	1267.87	-1304	1267.87	-1303	1267.87	-1302	1267.87	-1301	1267.87
-1300	1267.87	-1299	1267.87	-1298	1267.87	-1297	1267.87	-1296	1267.87	-1295	1267.87
-1294	1267.87	-1293	1267.87	-1292	1267.87	-1291	1133.59	-1290	2525.61	-1289	1133.59
-1288	2525.61	-1287	1133.59	-1286	2525.60	-1285	1133.59	-1284	2525.61	-1283	1133.59
-1282	2525.61	-1281	1133.59	-1280	2525.61	-1279	5120.15	-1278	5120.15	-1277	5120.15
-1276	5120.15	-1275	5120.15	-1274	688.58	-1273	1139.31	-1272	1139.31	-1271	1139.31
-1270	1139.31	-1269	2011.82	-1268	2884.34	-1267	3087.14	-1266	3289.95	-1265	3289.94
-1264	3289.94	-1263	2567.06	-1262	3223.24	-1261	3223.25	-1260	3223.24	-1259	3223.24
101	6184.41	102	25965.50	103	43001.30	104	22564.80	105	20055.80	106	35515.90
107	35515.90	108	19359.80	109	19109.10	110	34847.70	111	34847.70	112	19109.10
113	17232.70	114	31093.40	115	31093.40	116	17441.30	117	16404.50	118	29092.30
119	29092.30	120	16578.60	121	17269.20	122	29366.10	123	5365.06	124	7297.26
125	2183.87	126	3554.15	127	10593.00	128	6513.59	129	3126.53	204	2675.52
205	1662.83	208	4116.65	209	2310.97	212	4054.54	213	2221.00	216	3539.31
217	2262.93	220	3390.23	221	1385.13	222	1566.20	301	13160.30	302	21302.50
303	21302.50	304	12255.60	305	19903.70	306	32635.60	307	32635.60	308	19903.70
309	19510.60	310	32013.10	311	32013.10	312	19510.60	313	17680.30	314	28608.10
315	28608.10	316	17680.30	317	16736.90	318	26716.70	319	26716.70	320	16736.90
321	17570.20	322	26967.40	323	11589.30	324	17451.80	325	10356.50	326	6720.05
327	4704.45	328	8948.58								

Totali masse nodi

Mo <kg>
1540400.00

Elenco pesi e forze fittizie nodi

Simbologia

Fx = Forza in dir. X
Fy = Forza in dir. Y
Nodo = Numero del nodo
Peso = Peso

Nodo	Peso <daN>	Fx <daN>	Fy <daN>	Nodo	Peso <daN>	Fx <daN>	Fy <daN>	Nodo	Peso <daN>	Fx <daN>	Fy <daN>
-1726	1764.64	17.65	17.65	-1725	561.50	5.62	5.62	-1724	2206.77	22.07	22.07
-1723	3852.03	38.52	38.52	-1722	3852.03	38.52	38.52	-1721	3852.03	38.52	38.52
-1720	3044.69	30.45	30.45	-1719	1310.06	13.10	13.10	-1718	3179.27	31.79	31.79
-1717	423.00	4.23	4.23	-1716	452.74	4.53	4.53	-1715	482.48	4.82	4.82
-1714	482.48	4.82	4.82	-1713	482.48	4.82	4.82	-1712	381.36	3.81	3.81
-1711	1593.24	15.93	15.93	-1710	2230.64	22.31	22.31	-1709	493.50	4.93	4.93
-1708	528.20	5.28	5.28	-1707	562.90	5.63	5.63	-1706	562.90	5.63	5.63
-1705	562.90	5.63	5.63	-1704	444.92	4.45	4.45	-1703	1858.78	18.59	18.59
-1702	1282.00	12.82	12.82	-1701	564.00	5.64	5.64	-1700	603.66	6.04	6.04

-1699	643.31	6.43	6.43	-1698	643.31	6.43	6.43	-1697	643.31	6.43	6.43
-1696	508.48	5.08	5.08	-1695	2124.32	21.24	21.24	-1694	1859.73	18.60	18.60
-1693	444.15	4.44	4.44	-1692	475.38	4.75	4.75	-1691	506.61	5.07	5.07
-1690	506.61	5.07	5.07	-1689	506.61	5.07	5.07	-1688	400.43	4.00	4.00
-1687	1672.90	16.73	16.73	-1686	2437.45	24.37	24.37	-1685	324.30	3.24	3.24
-1684	347.10	3.47	3.47	-1683	369.90	3.70	3.70	-1682	369.90	3.70	3.70
-1681	369.90	3.70	3.70	-1680	292.38	2.92	2.92	-1679	1221.49	12.21	12.21
-1678	2384.45	23.84	23.84	-1677	317.25	3.17	3.17	-1676	339.56	3.40	3.40
-1675	361.86	3.62	3.62	-1674	361.86	3.62	3.62	-1673	361.86	3.62	3.62
-1672	286.02	2.86	2.86	-1671	1194.94	11.95	11.95	-1670	1385.36	13.85	13.85
-1669	1705.10	17.05	17.05	-1668	1824.99	18.25	18.25	-1667	1944.88	19.45	19.45
-1666	1944.88	19.45	19.45	-1665	1944.88	19.45	19.45	-1664	1537.25	15.37	15.37
-1663	1097.63	10.98	10.98	-1582	178.71	1.79	1.79	-1581	217.43	2.17	2.17
-1580	434.86	4.35	4.35	-1579	434.86	4.35	4.35	-1578	434.86	4.35	4.35
-1577	343.72	3.44	3.44	-1576	357.42	3.57	3.57	-1575	1872.07	18.72	18.72
-1574	260.74	2.61	2.61	-1573	2184.08	21.84	21.84	-1572	164.06	1.64	1.64
-1571	2496.09	24.96	24.96	-1570	219.04	2.19	2.19	-1569	1965.67	19.66	19.66
-1568	274.02	2.74	2.74	-1567	1435.26	14.35	14.35	-1566	268.07	2.68	2.68
-1565	1404.06	14.04	14.04	-1564	4243.28	42.43	42.43	-1563	4541.63	45.42	45.42
-1562	4839.98	48.40	48.40	-1561	4839.98	48.40	48.40	-1560	4839.99	48.40	48.40
-1532	149.41	1.49	1.49	-1531	181.79	1.82	1.82	-1530	363.57	3.64	3.64
-1529	363.57	3.64	3.64	-1528	363.57	3.64	3.64	-1527	287.37	2.87	2.87
-1526	255.00	2.55	2.55	-1525	298.83	2.99	2.99	-1524	298.83	2.99	2.99
-1523	348.63	3.49	3.49	-1522	348.63	3.49	3.49	-1521	398.44	3.98	3.98
-1520	398.44	3.98	3.98	-1519	313.77	3.14	3.14	-1518	313.77	3.14	3.14
-1517	229.10	2.29	2.29	-1516	229.10	2.29	2.29	-1515	224.12	2.24	2.24
-1514	224.12	2.24	2.24	-1513	318.75	3.19	3.19	-1512	341.16	3.41	3.41
-1511	363.57	3.64	3.64	-1510	363.57	3.64	3.64	-1509	363.57	3.64	3.64
-1508	287.37	2.87	2.87	-1507	215.16	2.15	2.15	-1504	1060.44	10.60	10.60
-1501	1147.83	11.48	11.48	-1498	1235.22	12.35	12.35	-1495	1322.61	13.23	13.23
-1492	1409.99	14.10	14.10	-1487	1581.28	15.81	15.81	-1484	1548.84	15.49	15.49
-1481	1516.40	15.16	15.16	-1478	1483.96	14.84	14.84	-1473	1467.54	14.68	14.68
-1470	1432.80	14.33	14.33	-1467	1398.05	13.98	13.98	-1464	1363.30	13.63	13.63
-1461	1328.56	13.29	13.29	-1456	1259.06	12.59	12.59	-1453	1224.31	12.24	12.24
-1450	1189.57	11.90	11.90	-1447	1154.82	11.55	11.55	-1444	1120.07	11.20	11.20
-1360	1240.07	12.40	12.40	-1359	1166.67	11.67	11.67	-1358	1382.36	13.82	13.82
-1357	1598.06	15.98	15.98	-1356	1598.06	15.98	15.98	-1355	1598.06	15.98	15.98
-1354	1263.13	12.63	12.63	-1353	3738.76	37.39	37.39	-1352	5235.86	52.36	52.36
-1351	5235.86	52.36	52.36	-1350	5235.86	52.36	52.36	-1349	5235.86	52.36	52.36
-1348	5124.58	51.25	51.25	-1347	5124.58	51.25	51.25	-1346	5124.58	51.25	51.25
-1345	5124.58	51.25	51.25	-1344	5124.58	51.25	51.25	-1343	1313.48	13.13	13.13
-1342	1313.48	13.13	13.13	-1341	2150.00	21.50	21.50	-1340	812.99	8.13	8.13
-1339	1532.39	15.32	15.32	-1338	2508.33	25.08	25.08	-1337	312.50	3.12	3.12
-1336	1751.30	17.51	17.51	-1335	2866.67	28.67	28.67	-1334	659.75	6.60	6.60
-1333	1379.15	13.79	13.79	-1332	2257.50	22.57	22.57	-1331	1007.00	10.07	10.07
-1330	1007.00	10.07	10.07	-1329	1648.34	16.48	16.48	-1328	985.11	9.85	9.85
-1327	985.11	9.85	9.85	-1326	1612.50	16.12	16.12	-1325	3793.04	37.93	37.93
-1324	4059.74	40.60	40.60	-1323	4326.44	43.26	43.26	-1322	4326.44	43.26	43.26
-1321	4326.44	43.26	43.26	-1320	1115.11	11.15	11.15	-1319	1115.11	11.15	11.15
-1318	1115.11	11.15	11.15	-1317	1115.11	11.15	11.15	-1316	1115.11	11.15	11.15
-1315	1201.75	12.02	12.02	-1314	1201.75	12.02	12.02	-1313	1201.75	12.02	12.02

-1312	1201.75	12.02	12.02	-1311	1243.78	12.44	12.44	-1310	1243.78	12.44	12.44
-1309	1243.78	12.44	12.44	-1308	1243.78	12.44	12.44	-1307	1243.78	12.44	12.44
-1306	1243.78	12.44	12.44	-1305	1243.78	12.44	12.44	-1304	1243.78	12.44	12.44
-1303	1243.78	12.44	12.44	-1302	1243.78	12.44	12.44	-1301	1243.78	12.44	12.44
-1300	1243.78	12.44	12.44	-1299	1243.78	12.44	12.44	-1298	1243.78	12.44	12.44
-1297	1243.78	12.44	12.44	-1296	1243.78	12.44	12.44	-1295	1243.78	12.44	12.44
-1294	1243.78	12.44	12.44	-1293	1243.78	12.44	12.44	-1292	1243.78	12.44	12.44
-1291	1112.05	11.12	11.12	-1290	2477.62	24.78	24.78	-1289	1112.05	11.12	11.12
-1288	2477.62	24.78	24.78	-1287	1112.05	11.12	11.12	-1286	2477.62	24.78	24.78
-1285	1112.05	11.12	11.12	-1284	2477.62	24.78	24.78	-1283	1112.05	11.12	11.12
-1282	2477.62	24.78	24.78	-1281	1112.05	11.12	11.12	-1280	2477.62	24.78	24.78
-1279	5552.24	55.52	55.52	-1278	5552.24	55.52	55.52	-1277	5552.24	55.52	55.52
-1276	5552.24	55.52	55.52	-1275	5552.24	55.52	55.52	-1274	675.50	6.75	6.75
-1273	1117.67	11.18	11.18	-1272	1117.67	11.18	11.18	-1271	1117.67	11.18	11.18
-1270	1117.67	11.18	11.18	-1269	2253.04	22.53	22.53	-1268	3388.41	33.88	33.88
-1267	3626.66	36.27	36.27	-1266	3864.91	38.65	38.65	-1265	3864.91	38.65	38.65
-1264	3864.91	38.65	38.65	-1263	3015.69	30.16	30.16	-1262	3786.55	37.87	37.87
-1261	3786.55	37.87	37.87	-1260	3786.55	37.87	37.87	-1259	3786.55	37.87	37.87
101	6331.60	63.32	63.32	102	28995.90	289.96	289.96	103	48865.20	488.65	488.65
104	25558.10	255.58	255.58	105	22785.30	227.85	227.85	106	40914.20	409.14	409.14
107	40914.20	409.14	409.14	108	22102.50	221.03	221.03	109	21791.10	217.91	217.91
110	40130.60	401.31	401.31	111	40130.60	401.31	401.31	112	21791.10	217.91	217.91
113	19653.60	196.54	196.54	114	35868.50	358.69	358.69	115	35868.50	358.69	358.69
116	19858.30	198.58	198.58	117	18683.70	186.84	186.84	118	33597.90	335.98	335.98
119	33597.90	335.98	335.98	120	18854.50	188.54	188.54	121	19671.10	196.71	196.71
122	33931.50	339.31	339.31	123	5490.63	54.91	54.91	124	7618.56	76.19	76.19
125	2454.65	24.55	24.55	126	3990.49	39.90	39.90	127	12204.00	122.04	122.04
128	7345.99	73.46	73.46	129	3275.13	32.75	32.75	204	2624.69	26.25	26.25
205	1698.45	16.98	16.98	208	4038.44	40.38	40.38	209	2443.81	24.44	24.44
212	3977.50	39.77	39.77	213	2396.52	23.97	23.97	216	3472.06	34.72	34.72
217	2455.58	24.56	24.56	220	3325.81	33.26	33.26	221	1421.09	14.21	14.21
222	1536.45	15.36	15.36	301	14498.40	144.98	144.98	302	23998.40	239.98	239.98
303	23998.40	239.98	239.98	304	13610.90	136.11	136.11	305	22636.10	226.36	226.36
306	38088.60	380.89	380.89	307	38088.60	380.89	380.89	308	22636.10	226.36	226.36
309	22184.90	221.85	221.85	310	37349.90	373.50	373.50	311	37349.90	373.50	373.50
312	22184.90	221.85	221.85	313	20092.70	200.93	200.93	314	33430.50	334.31	334.31
315	33430.50	334.31	334.31	316	20092.70	200.93	200.93	317	19009.70	190.10	190.10
318	31267.50	312.68	312.68	319	31267.50	312.68	312.68	320	19009.70	190.10	190.10
321	19966.40	199.66	199.66	322	31578.30	315.78	315.78	323	12734.10	127.34	127.34
324	19647.40	196.47	196.47	325	11971.90	119.72	119.72	326	7548.51	75.49	75.49
327	4823.06	48.23	48.23	328	9940.76	99.41	99.41				

Elenco modi di vibrare, masse partecipanti e coefficienti di partecipazione

Simbologia

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

Modo	C	T	Diff.	Φx	Φy	Φz	%Mx	%My	%Mz	%Jpz
1	*	0.30	65.86	286.35	-31.35	0.00	53.23	0.64	0.00	0.00
2	*	0.18	6.43	-45.95	-301.83	0.00	1.37	59.14	0.00	0.00
3	*	0.17	6.43	-172.05	27.93	0.00	19.22	0.51	0.00	0.00
4	*	0.06	29.24	178.82	3.33	0.00	20.76	0.01	0.00	0.00
5		0.04	12.06	-1.66	36.68	0.00	0.00	0.87	0.00	0.00
6	*	0.04	12.06	28.12	-152.80	0.00	0.51	15.16	0.00	0.00
7	*	0.03	23.56	29.11	-158.69	0.00	0.55	16.35	0.00	0.00
8		0.02	23.56	71.97	97.74	0.00	3.36	6.20	0.00	0.00
9		0.02	26.37	-35.40	-38.91	0.00	0.81	0.98	0.00	0.00
Tot.cons.							95.64	91.80	0.00	0.00

Elenco coefficienti di risposta

Simbologia

Modo = Numero del modo di vibrare
Sx = Coefficiente di risposta (moltiplicato per 100) in dir. X
Sy = Coefficiente di risposta (moltiplicato per 100) in dir. Y

Stato limite di danno

Modo	Sx	Sy
1	20.73	20.73
2	20.73	20.73
3	20.73	20.73
4	13.07	13.07
5	11.94	11.94
6	11.53	11.53
7	10.84	10.84
8	10.31	10.31
9	9.85	9.85

Stato limite di salvaguardia della vita

Modo	Sx	Sy
1	15.11	15.11
2	15.11	15.11
3	15.11	15.11
4	17.36	17.36
5	17.65	17.65
6	17.76	17.76
7	17.94	17.94
8	18.08	18.08
9	18.20	18.20

Domanda in duttilità di curvatura

Direzione X μ_{EdX}=11.82
Direzione Y μ_{EdY}=18.81

Spostamenti relativi massimi allo stato limite di danno

Simbologia

δ = Spostamento relativo
δ/h = Rapporto (moltiplicato per 1000) tra lo spostamento relativo e l'altezza
CC = Numero della combinazione delle condizioni di carico elementari
N1 = Nodo1
N2 = Nodo2
h = Altezza teorica

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

N1	N2	h <m>	δ <cm>	δ/h	CC	N1	N2	h <m>	δ <cm>	δ/h	CC	N1	N2	h <m>	δ <cm>	δ/h	CC
1	-919	0.93	0.03	0.35	2	-919	-1038	0.68	0.02	0.36	2	-1038	-1157	0.68	0.02	0.35	2
-1157	101	0.50	0.02	0.44	2	101	301	4.60	0.75	1.62	2	2	-925	0.93	0.04	0.41	2
-925	-1044	0.68	0.03	0.37	2	-1044	-1163	0.68	0.03	0.41	2	-1163	102	0.50	0.03	0.57	2
102	302	4.60	0.72	1.57	2	3	103	2.80	0.10	0.37	2	103	303	4.60	0.71	1.55	2
4	-926	0.93	0.05	0.51	2	-926	-1045	0.68	0.02	0.35	2	-1045	-1164	0.68	0.04	0.56	2
-1164	104	0.50	0.05	0.91	2	104	204	3.55	0.54	1.53	2	204	304	1.05	0.18	1.74	2
5	-939	0.93	0.05	0.58	2	-939	-1058	0.68	0.02	0.29	2	-1058	-1177	0.68	0.04	0.56	2
-1177	105	0.50	0.04	0.81	2	105	205	3.55	0.53	1.48	2	205	305	1.05	0.17	1.62	2
6	106	2.80	0.10	0.36	2	106	306	4.60	0.61	1.32	2	7	107	2.80	0.10	0.36	2
107	307	4.60	0.60	1.30	2	8	-940	0.93	0.05	0.51	2	-940	-1059	0.68	0.02	0.31	2
-1059	-1178	0.68	0.04	0.57	2	-1178	108	0.50	0.04	0.82	2	108	208	3.55	0.48	1.34	2

208	308	1.05	0.18	1.69	2
-1070	-1189	0.68	0.04	0.54	2
209	309	1.05	0.14	1.30	2
11	111	2.80	0.10	0.36	2
-952	-1071	0.68	0.02	0.30	2
112	212	3.55	0.39	1.11	2
-963	-1082	0.68	0.02	0.34	2
113	213	3.55	0.38	1.07	2
114	314	4.60	0.39	0.85	2
16	-964	0.93	0.06	0.69	2
-1202	116	0.50	0.05	0.91	4
17	-969	0.93	0.08	0.81	2
-1207	117	0.50	0.04	0.73	2
18	118	2.80	0.10	0.36	2
119	319	4.60	0.29	0.64	2
220	320	1.05	0.11	1.03	2
-1094	-1213	0.68	0.03	0.45	2
221	321	1.05	0.10	0.93	2
23	-1001	0.93	0.03	0.36	2
-1240	123	0.50	0.02	0.36	2
-1007	-1126	0.68	0.02	0.35	2
124	324	4.60	0.20	0.44	6

9	-951	0.93	0.06	0.62	2
-1189	109	0.50	0.04	0.77	2
10	110	2.80	0.10	0.36	2
111	311	4.60	0.48	1.05	2
-1071	-1190	0.68	0.04	0.58	2
212	312	1.05	0.15	1.41	2
-1082	-1201	0.68	0.04	0.54	2
213	313	1.05	0.12	1.10	2
15	115	2.80	0.10	0.36	2
-964	-1083	0.68	0.02	0.31	4
116	216	3.55	0.34	0.96	2
-969	-1088	0.68	0.02	0.33	2
117	217	3.55	0.33	0.92	2
118	318	4.60	0.31	0.68	2
20	120	2.80	0.10	0.35	2
21	-975	0.93	0.08	0.86	2
-1213	121	0.50	0.03	0.66	2
22	122	2.80	0.10	0.36	2
-1001	-1120	0.68	0.02	0.34	2
123	323	4.60	0.29	0.62	2
-1126	-1246	0.68	0.03	0.38	2

-951	-1070	0.68	0.02	0.30	2
109	209	3.55	0.45	1.26	2
110	310	4.60	0.50	1.08	2
12	-952	0.93	0.05	0.54	2
-1190	112	0.50	0.04	0.79	2
13	-963	0.93	0.07	0.77	2
-1201	113	0.50	0.04	0.81	2
14	114	2.80	0.10	0.36	2
115	315	4.60	0.38	0.82	2
-1083	-1202	0.68	0.05	0.68	4
216	316	1.05	0.13	1.24	2
-1088	-1207	0.68	0.03	0.50	2
217	317	1.05	0.10	0.98	2
19	119	2.80	0.10	0.35	2
120	220	3.55	0.28	0.78	2
-975	-1094	0.68	0.02	0.33	2
121	221	3.55	0.28	0.78	2
122	322	4.60	0.24	0.52	2
-1120	-1240	0.68	0.02	0.33	2
24	-1007	0.93	0.05	0.51	2
-1246	124	0.50	0.02	0.40	2

Min = 0.29
Max = 1.74

Tensioni sul terreno

Simbologia

σ_t = Tensione sul terreno
CC = Numero della combinazione delle condizioni di carico elementari
Nodo = Numero del nodo
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)

Nodo	CC	TCC	σ_t <daN/cmq>
-900	1	SLV	0.69
-898	1	SLV	0.67
-896	1	SLV	0.63
-894	1	SLV	0.60
-892	1	SLV	0.57
-890	1	SLV	0.60
-888	1	SLV	0.65
-886	1	SLV	0.70
-884	1	SLV	0.74
-882	1	SLV	0.78
-880	1	SLV	0.81
-878	1	SLV	0.68
-876	1	SLV	0.64
-874	1	SLV	0.61
-872	1	SLV	0.58
-870	1	SLV	0.57

Nodo	CC	TCC	σ_t <daN/cmq>
-900	1	SLV	0.31
-898	1	SLV	0.34
-896	1	SLV	0.40
-894	1	SLV	0.46
-892	1	SLV	0.50
-890	1	SLV	0.52
-888	1	SLV	0.50
-886	1	SLV	0.48
-884	1	SLV	0.46
-882	1	SLV	0.44
-880	1	SLV	0.42
-878	1	SLV	0.31
-876	1	SLV	0.36
-874	1	SLV	0.42
-872	1	SLV	0.48
-870	1	SLV	0.51

Nodo	CC	TCC	σ_t <daN/cmq>
-899	1	SLV	0.68
-897	1	SLV	0.65
-895	1	SLV	0.62
-893	1	SLV	0.58
-891	1	SLV	0.57
-889	1	SLV	0.62
-887	1	SLV	0.67
-885	1	SLV	0.72
-883	1	SLV	0.76
-881	1	SLV	0.80
-879	1	SLV	0.68
-877	1	SLV	0.66
-875	1	SLV	0.62
-873	1	SLV	0.59
-871	1	SLV	0.57
-869	1	SLV	0.58

Nodo	CC	TCC	σ_t <daN/cmq>
-899	1	SLV	0.31
-897	1	SLV	0.37
-895	1	SLV	0.43
-893	1	SLV	0.48
-891	1	SLV	0.52
-889	1	SLV	0.51
-887	1	SLV	0.49
-885	1	SLV	0.47
-883	1	SLV	0.45
-881	1	SLV	0.42
-879	1	SLV	0.31
-877	1	SLV	0.34
-875	1	SLV	0.39
-873	1	SLV	0.45
-871	1	SLV	0.50
-869	1	SLV	0.51

-868	1	SLV	0.61	-868	1	SLV	0.50	-867	1	SLV	0.63	-867	1	SLV	0.49
-866	1	SLV	0.68	-866	1	SLV	0.47	-865	1	SLV	0.70	-865	1	SLV	0.46
-864	1	SLV	0.72	-864	1	SLV	0.45	-863	1	SLV	0.75	-863	1	SLV	0.44
-862	1	SLV	0.77	-862	1	SLV	0.43	-861	1	SLV	0.81	-861	1	SLV	0.42
-860	1	SLV	0.67	-860	1	SLV	0.30	-859	1	SLV	0.66	-859	1	SLV	0.31
-858	1	SLV	0.64	-858	1	SLV	0.33	-857	1	SLV	0.61	-857	1	SLV	0.35
-856	1	SLV	0.59	-856	1	SLV	0.38	-855	1	SLV	0.58	-855	1	SLV	0.41
-854	1	SLV	0.57	-854	1	SLV	0.45	-853	1	SLV	0.56	-853	1	SLV	0.48
-852	1	SLV	0.56	-852	1	SLV	0.49	-851	1	SLV	0.54	-851	1	SLV	0.50
-850	1	SLV	0.54	-850	1	SLV	0.48	-849	1	SLV	0.55	-849	1	SLV	0.47
-848	1	SLV	0.56	-848	1	SLV	0.45	-847	1	SLV	0.58	-847	1	SLV	0.44
-846	1	SLV	0.59	-846	1	SLV	0.43	-845	1	SLV	0.61	-845	1	SLV	0.42
-844	1	SLV	0.64	-844	1	SLV	0.41	-843	1	SLV	0.68	-843	1	SLV	0.41
-842	1	SLV	0.73	-842	1	SLV	0.42	-841	1	SLV	0.79	-841	1	SLV	0.43
-840	1	SLV	0.80	-840	1	SLV	0.43	-839	1	SLV	0.66	-839	1	SLV	0.30
-838	1	SLV	0.65	-838	1	SLV	0.31	-837	1	SLV	0.62	-837	1	SLV	0.32
-836	1	SLV	0.59	-836	1	SLV	0.34	-835	1	SLV	0.56	-835	1	SLV	0.37
-834	1	SLV	0.55	-834	1	SLV	0.40	-833	1	SLV	0.55	-833	1	SLV	0.44
-832	1	SLV	0.55	-832	1	SLV	0.48	-831	1	SLV	0.54	-831	1	SLV	0.49
-830	1	SLV	0.52	-830	1	SLV	0.49	-829	1	SLV	0.51	-829	1	SLV	0.46
-828	1	SLV	0.50	-828	1	SLV	0.44	-827	1	SLV	0.50	-827	1	SLV	0.42
-826	1	SLV	0.50	-826	1	SLV	0.40	-825	1	SLV	0.52	-825	1	SLV	0.39
-824	1	SLV	0.54	-824	1	SLV	0.38	-823	1	SLV	0.57	-823	1	SLV	0.38
-822	1	SLV	0.63	-822	1	SLV	0.39	-821	1	SLV	0.70	-821	1	SLV	0.41
-820	1	SLV	0.78	-820	1	SLV	0.43	-819	1	SLV	0.79	-819	1	SLV	0.43
-818	1	SLV	0.65	-818	1	SLV	0.30	-817	1	SLV	0.64	-817	1	SLV	0.30
-816	1	SLV	0.60	-816	1	SLV	0.32	-815	1	SLV	0.57	-815	1	SLV	0.34
-814	1	SLV	0.55	-814	1	SLV	0.37	-813	1	SLV	0.54	-813	1	SLV	0.40
-812	1	SLV	0.54	-812	1	SLV	0.44	-811	1	SLV	0.54	-811	1	SLV	0.48
-810	1	SLV	0.53	-810	1	SLV	0.49	-809	1	SLV	0.50	-809	1	SLV	0.48
-808	1	SLV	0.47	-808	1	SLV	0.45	-807	1	SLV	0.45	-807	1	SLV	0.41
-806	1	SLV	0.44	-806	1	SLV	0.39	-805	1	SLV	0.43	-805	1	SLV	0.37
-804	1	SLV	0.44	-804	1	SLV	0.35	-803	1	SLV	0.46	-803	1	SLV	0.35
-802	1	SLV	0.50	-802	1	SLV	0.35	-801	1	SLV	0.57	-801	1	SLV	0.37
-800	1	SLV	0.66	-800	1	SLV	0.40	-799	1	SLV	0.76	-799	1	SLV	0.43
-798	1	SLV	0.79	-798	1	SLV	0.44	-797	1	SLV	0.65	-797	1	SLV	0.29
-796	1	SLV	0.64	-796	1	SLV	0.30	-795	1	SLV	0.61	-795	1	SLV	0.32
-794	1	SLV	0.58	-794	1	SLV	0.34	-793	1	SLV	0.56	-793	1	SLV	0.37
-792	1	SLV	0.54	-792	1	SLV	0.40	-791	1	SLV	0.54	-791	1	SLV	0.44
-790	1	SLV	0.53	-790	1	SLV	0.48	-789	1	SLV	0.52	-789	1	SLV	0.49
-788	1	SLV	0.48	-788	1	SLV	0.47	-787	1	SLV	0.45	-787	1	SLV	0.44
-786	1	SLV	0.42	-786	1	SLV	0.40	-785	1	SLV	0.41	-785	1	SLV	0.38
-784	1	SLV	0.40	-784	1	SLV	0.36	-783	1	SLV	0.40	-783	1	SLV	0.34
-782	1	SLV	0.41	-782	1	SLV	0.33	-781	1	SLV	0.46	-781	1	SLV	0.33
-780	1	SLV	0.53	-780	1	SLV	0.35	-779	1	SLV	0.63	-779	1	SLV	0.39
-778	1	SLV	0.75	-778	1	SLV	0.44	-777	1	SLV	0.78	-777	1	SLV	0.45
-776	1	SLV	0.65	-776	1	SLV	0.29	-775	1	SLV	0.64	-775	1	SLV	0.29
-774	1	SLV	0.61	-774	1	SLV	0.31	-773	1	SLV	0.59	-773	1	SLV	0.34
-772	1	SLV	0.57	-772	1	SLV	0.37	-771	1	SLV	0.56	-771	1	SLV	0.40
-770	1	SLV	0.55	-770	1	SLV	0.44	-769	1	SLV	0.53	-769	1	SLV	0.47
-768	1	SLV	0.52	-768	1	SLV	0.48	-767	1	SLV	0.48	-767	1	SLV	0.47

-766	1	SLV	0.44	-766	1	SLV	0.43	-765	1	SLV	0.41	-765	1	SLV	0.40
-764	1	SLV	0.40	-764	1	SLV	0.38	-763	1	SLV	0.39	-763	1	SLV	0.37
-762	1	SLV	0.39	-762	1	SLV	0.35	-761	1	SLV	0.40	-761	1	SLV	0.33
-760	1	SLV	0.44	-760	1	SLV	0.33	-759	1	SLV	0.52	-759	1	SLV	0.35
-758	1	SLV	0.62	-758	1	SLV	0.39	-757	1	SLV	0.75	-757	1	SLV	0.44
-756	1	SLV	0.77	-756	1	SLV	0.45	-755	1	SLV	0.65	-755	1	SLV	0.28
-754	1	SLV	0.64	-754	1	SLV	0.29	-753	1	SLV	0.62	-753	1	SLV	0.31
-752	1	SLV	0.60	-752	1	SLV	0.34	-751	1	SLV	0.58	-751	1	SLV	0.37
-750	1	SLV	0.56	-750	1	SLV	0.40	-749	1	SLV	0.55	-749	1	SLV	0.44
-748	1	SLV	0.53	-748	1	SLV	0.47	-747	1	SLV	0.52	-747	1	SLV	0.47
-746	1	SLV	0.47	-746	1	SLV	0.46	-745	1	SLV	0.43	-745	1	SLV	0.42
-744	1	SLV	0.40	-744	1	SLV	0.39	-743	1	SLV	0.40	-743	1	SLV	0.39
-742	1	SLV	0.40	-742	1	SLV	0.38	-741	1	SLV	0.39	-741	1	SLV	0.35
-740	1	SLV	0.39	-740	1	SLV	0.33	-739	1	SLV	0.43	-739	1	SLV	0.33
-738	1	SLV	0.51	-738	1	SLV	0.35	-737	1	SLV	0.62	-737	1	SLV	0.39
-736	1	SLV	0.74	-736	1	SLV	0.44	-735	1	SLV	0.77	-735	1	SLV	0.45
-734	1	SLV	0.64	-734	1	SLV	0.28	-733	1	SLV	0.63	-733	1	SLV	0.28
-732	1	SLV	0.61	-732	1	SLV	0.31	-731	1	SLV	0.60	-731	1	SLV	0.33
-730	1	SLV	0.58	-730	1	SLV	0.36	-729	1	SLV	0.56	-729	1	SLV	0.39
-728	1	SLV	0.54	-728	1	SLV	0.42	-727	1	SLV	0.53	-727	1	SLV	0.45
-726	1	SLV	0.51	-726	1	SLV	0.46	-725	1	SLV	0.46	-725	1	SLV	0.44
-724	1	SLV	0.42	-724	1	SLV	0.41	-723	1	SLV	0.39	-723	1	SLV	0.39
-722	1	SLV	0.39	-722	1	SLV	0.38	-721	1	SLV	0.38	-721	1	SLV	0.35
-720	1	SLV	0.38	-720	1	SLV	0.33	-719	1	SLV	0.42	-719	1	SLV	0.33
-718	1	SLV	0.50	-718	1	SLV	0.35	-717	1	SLV	0.61	-717	1	SLV	0.39
-716	1	SLV	0.76	-716	1	SLV	0.45	-715	1	SLV	0.60	-715	1	SLV	0.28
-714	1	SLV	0.60	-714	1	SLV	0.28	-713	1	SLV	0.58	-713	1	SLV	0.30
-712	1	SLV	0.56	-712	1	SLV	0.32	-711	1	SLV	0.54	-711	1	SLV	0.35
-710	1	SLV	0.52	-710	1	SLV	0.37	-709	1	SLV	0.51	-709	1	SLV	0.39
-708	1	SLV	0.49	-708	1	SLV	0.41	-707	1	SLV	0.47	-707	1	SLV	0.42
-706	1	SLV	0.43	-706	1	SLV	0.40	-705	1	SLV	0.40	-705	1	SLV	0.38
-704	1	SLV	0.37	-704	1	SLV	0.36	-703	1	SLV	0.37	-703	1	SLV	0.36
-702	1	SLV	0.37	-702	1	SLV	0.36	-701	1	SLV	0.36	-701	1	SLV	0.34
-700	1	SLV	0.37	-700	1	SLV	0.32	-699	1	SLV	0.41	-699	1	SLV	0.32
-698	1	SLV	0.49	-698	1	SLV	0.35	-697	1	SLV	0.60	-697	1	SLV	0.39
-696	1	SLV	0.73	-696	1	SLV	0.45	-695	1	SLV	0.75	-695	1	SLV	0.46
-694	1	SLV	0.55	-694	1	SLV	0.29	-693	1	SLV	0.55	-693	1	SLV	0.29
-692	1	SLV	0.52	-692	1	SLV	0.30	-691	1	SLV	0.50	-691	1	SLV	0.31
-690	1	SLV	0.48	-690	1	SLV	0.32	-689	1	SLV	0.46	-689	1	SLV	0.34
-688	1	SLV	0.45	-688	1	SLV	0.36	-687	1	SLV	0.43	-687	1	SLV	0.37
-686	1	SLV	0.42	-686	1	SLV	0.37	-685	1	SLV	0.39	-685	1	SLV	0.36
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-678	1	SLV	0.40	-678	1	SLV	0.32	-677	1	SLV	0.48	-677	1	SLV	0.35
-676	1	SLV	0.59	-676	1	SLV	0.39	-675	1	SLV	0.72	-675	1	SLV	0.45
-674	1	SLV	0.74	-674	1	SLV	0.46	-673	1	SLV	0.52	-673	1	SLV	0.32
-672	1	SLV	0.51	-672	1	SLV	0.31	-671	1	SLV	0.48	-671	1	SLV	0.31
-670	1	SLV	0.45	-670	1	SLV	0.31	-669	1	SLV	0.43	-669	1	SLV	0.31
-668	1	SLV	0.41	-668	1	SLV	0.32	-667	1	SLV	0.40	-667	1	SLV	0.34
-666	1	SLV	0.39	-666	1	SLV	0.35	-665	1	SLV	0.38	-665	1	SLV	0.35

-664	1	SLV	0.36	-664	1	SLV	0.34	-663	1	SLV	0.35	-663	1	SLV	0.33
-662	1	SLV	0.34	-662	1	SLV	0.32	-661	1	SLV	0.33	-661	1	SLV	0.32
-660	1	SLV	0.32	-660	1	SLV	0.32	-659	1	SLV	0.33	-659	1	SLV	0.31
-658	1	SLV	0.35	-658	1	SLV	0.31	-657	1	SLV	0.39	-657	1	SLV	0.32
-656	1	SLV	0.47	-656	1	SLV	0.35	-655	1	SLV	0.58	-655	1	SLV	0.39
-654	1	SLV	0.71	-654	1	SLV	0.45	-653	1	SLV	0.74	-653	1	SLV	0.46
-652	1	SLV	0.51	-652	1	SLV	0.36	-651	1	SLV	0.49	-651	1	SLV	0.35
-650	1	SLV	0.45	-650	1	SLV	0.33	-649	1	SLV	0.42	-649	1	SLV	0.32
-648	1	SLV	0.39	-648	1	SLV	0.31	-647	1	SLV	0.38	-647	1	SLV	0.32
-646	1	SLV	0.38	-646	1	SLV	0.33	-645	1	SLV	0.37	-645	1	SLV	0.34
-644	1	SLV	0.37	-644	1	SLV	0.34	-643	1	SLV	0.35	-643	1	SLV	0.33
-642	1	SLV	0.34	-642	1	SLV	0.33	-641	1	SLV	0.33	-641	1	SLV	0.32
-640	1	SLV	0.33	-640	1	SLV	0.32	-639	1	SLV	0.33	-639	1	SLV	0.33
-638	1	SLV	0.33	-638	1	SLV	0.32	-637	1	SLV	0.35	-637	1	SLV	0.32
-636	1	SLV	0.39	-636	1	SLV	0.32	-635	1	SLV	0.47	-635	1	SLV	0.35
-634	1	SLV	0.58	-634	1	SLV	0.40	-633	1	SLV	0.70	-633	1	SLV	0.45
-632	1	SLV	0.73	-632	1	SLV	0.47	-631	1	SLV	0.53	-631	1	SLV	0.41
-630	1	SLV	0.51	-630	1	SLV	0.40	-629	1	SLV	0.45	-629	1	SLV	0.36
-628	1	SLV	0.40	-628	1	SLV	0.33	-627	1	SLV	0.37	-627	1	SLV	0.32
-626	1	SLV	0.36	-626	1	SLV	0.32	-625	1	SLV	0.37	-625	1	SLV	0.34
-624	1	SLV	0.37	-624	1	SLV	0.36	-623	1	SLV	0.37	-623	1	SLV	0.35
-622	1	SLV	0.35	-622	1	SLV	0.34	-621	1	SLV	0.34	-621	1	SLV	0.33
-620	1	SLV	0.34	-620	1	SLV	0.33	-619	1	SLV	0.35	-619	1	SLV	0.34
-618	1	SLV	0.35	-618	1	SLV	0.35	-617	1	SLV	0.35	-617	1	SLV	0.34
-616	1	SLV	0.36	-616	1	SLV	0.32	-615	1	SLV	0.39	-615	1	SLV	0.33
-614	1	SLV	0.47	-614	1	SLV	0.35	-613	1	SLV	0.57	-613	1	SLV	0.40
-612	1	SLV	0.69	-612	1	SLV	0.46	-611	1	SLV	0.72	-611	1	SLV	0.47
-610	1	SLV	0.55	-610	1	SLV	0.44	-609	1	SLV	0.45	-609	1	SLV	0.38
-608	1	SLV	0.39	-608	1	SLV	0.34	-607	1	SLV	0.35	-607	1	SLV	0.32
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-604	1	SLV	0.37	-604	1	SLV	0.36	-603	1	SLV	0.35	-603	1	SLV	0.34
-602	1	SLV	0.34	-602	1	SLV	0.33	-601	1	SLV	0.34	-601	1	SLV	0.33
-600	1	SLV	0.36	-600	1	SLV	0.35	-599	1	SLV	0.36	-599	1	SLV	0.35
-598	1	SLV	0.36	-598	1	SLV	0.33	-597	1	SLV	0.40	-597	1	SLV	0.33
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-594	1	SLV	0.71	-594	1	SLV	0.47	-593	1	SLV	0.53	-593	1	SLV	0.44
-592	1	SLV	0.52	-592	1	SLV	0.42	-591	1	SLV	0.45	-591	1	SLV	0.38
-590	1	SLV	0.39	-590	1	SLV	0.34	-589	1	SLV	0.35	-589	1	SLV	0.32
-588	1	SLV	0.34	-588	1	SLV	0.33	-587	1	SLV	0.35	-587	1	SLV	0.34
-586	1	SLV	0.36	-586	1	SLV	0.36	-585	1	SLV	0.36	-585	1	SLV	0.35
-584	1	SLV	0.35	-584	1	SLV	0.34	-583	1	SLV	0.34	-583	1	SLV	0.33
-582	1	SLV	0.34	-582	1	SLV	0.33	-581	1	SLV	0.35	-581	1	SLV	0.35
-580	1	SLV	0.36	-580	1	SLV	0.36	-579	1	SLV	0.36	-579	1	SLV	0.35
-578	1	SLV	0.36	-578	1	SLV	0.33	-577	1	SLV	0.40	-577	1	SLV	0.34
-576	1	SLV	0.46	-576	1	SLV	0.36	-575	1	SLV	0.56	-575	1	SLV	0.41
-574	1	SLV	0.68	-574	1	SLV	0.46	-573	1	SLV	0.70	-573	1	SLV	0.47
-572	1	SLV	0.53	-572	1	SLV	0.42	-571	1	SLV	0.51	-571	1	SLV	0.41
-570	1	SLV	0.45	-570	1	SLV	0.37	-569	1	SLV	0.39	-569	1	SLV	0.34
-568	1	SLV	0.35	-568	1	SLV	0.32	-567	1	SLV	0.34	-567	1	SLV	0.32
-566	1	SLV	0.34	-566	1	SLV	0.33	-565	1	SLV	0.34	-565	1	SLV	0.34
-564	1	SLV	0.34	-564	1	SLV	0.34	-563	1	SLV	0.34	-563	1	SLV	0.34

-562	1	SLV	0.33	-562	1	SLV	0.33	-561	1	SLV	0.34	-561	1	SLV	0.33
-560	1	SLV	0.34	-560	1	SLV	0.34	-559	1	SLV	0.34	-559	1	SLV	0.34
-558	1	SLV	0.35	-558	1	SLV	0.34	-557	1	SLV	0.36	-557	1	SLV	0.33
-556	1	SLV	0.39	-556	1	SLV	0.34	-555	1	SLV	0.46	-555	1	SLV	0.36
-554	1	SLV	0.56	-554	1	SLV	0.41	-553	1	SLV	0.67	-553	1	SLV	0.46
-552	1	SLV	0.70	-552	1	SLV	0.47	-551	1	SLV	0.55	-551	1	SLV	0.42
-550	1	SLV	0.53	-550	1	SLV	0.41	-549	1	SLV	0.46	-549	1	SLV	0.37
-548	1	SLV	0.40	-548	1	SLV	0.34	-547	1	SLV	0.36	-547	1	SLV	0.32
-546	1	SLV	0.34	-546	1	SLV	0.32	-545	1	SLV	0.34	-545	1	SLV	0.33
-544	1	SLV	0.35	-544	1	SLV	0.34	-543	1	SLV	0.34	-543	1	SLV	0.34
-542	1	SLV	0.34	-542	1	SLV	0.34	-541	1	SLV	0.33	-541	1	SLV	0.33
-540	1	SLV	0.34	-540	1	SLV	0.33	-539	1	SLV	0.34	-539	1	SLV	0.34
-538	1	SLV	0.34	-538	1	SLV	0.34	-537	1	SLV	0.35	-537	1	SLV	0.34
-536	1	SLV	0.36	-536	1	SLV	0.33	-535	1	SLV	0.39	-535	1	SLV	0.34
-534	1	SLV	0.46	-534	1	SLV	0.36	-533	1	SLV	0.55	-533	1	SLV	0.41
-532	1	SLV	0.66	-532	1	SLV	0.46	-531	1	SLV	0.69	-531	1	SLV	0.48
-530	1	SLV	0.60	-530	1	SLV	0.45	-529	1	SLV	0.58	-529	1	SLV	0.43
-528	1	SLV	0.50	-528	1	SLV	0.39	-527	1	SLV	0.42	-527	1	SLV	0.35
-526	1	SLV	0.37	-526	1	SLV	0.33	-525	1	SLV	0.35	-525	1	SLV	0.33
-524	1	SLV	0.36	-524	1	SLV	0.35	-523	1	SLV	0.36	-523	1	SLV	0.36
-522	1	SLV	0.36	-522	1	SLV	0.36	-521	1	SLV	0.35	-521	1	SLV	0.34
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-516	1	SLV	0.36	-516	1	SLV	0.35	-515	1	SLV	0.36	-515	1	SLV	0.34
-514	1	SLV	0.39	-514	1	SLV	0.34	-513	1	SLV	0.46	-513	1	SLV	0.36
-512	1	SLV	0.55	-512	1	SLV	0.41	-511	1	SLV	0.66	-511	1	SLV	0.46
-510	1	SLV	0.68	-510	1	SLV	0.48	-509	1	SLV	0.64	-509	1	SLV	0.47
-508	1	SLV	0.52	-508	1	SLV	0.40	-507	1	SLV	0.44	-507	1	SLV	0.36
-506	1	SLV	0.38	-506	1	SLV	0.33	-505	1	SLV	0.35	-505	1	SLV	0.33
-504	1	SLV	0.36	-504	1	SLV	0.35	-503	1	SLV	0.37	-503	1	SLV	0.36
-502	1	SLV	0.35	-502	1	SLV	0.34	-501	1	SLV	0.33	-501	1	SLV	0.33
-500	1	SLV	0.34	-500	1	SLV	0.33	-499	1	SLV	0.36	-499	1	SLV	0.35
-498	1	SLV	0.36	-498	1	SLV	0.36	-497	1	SLV	0.36	-497	1	SLV	0.34
-496	1	SLV	0.39	-496	1	SLV	0.34	-495	1	SLV	0.45	-495	1	SLV	0.36
-494	1	SLV	0.55	-494	1	SLV	0.41	-493	1	SLV	0.68	-493	1	SLV	0.48
-492	1	SLV	0.64	-492	1	SLV	0.47	-491	1	SLV	0.61	-491	1	SLV	0.45
-490	1	SLV	0.52	-490	1	SLV	0.40	-489	1	SLV	0.44	-489	1	SLV	0.36
-488	1	SLV	0.38	-488	1	SLV	0.33	-487	1	SLV	0.35	-487	1	SLV	0.32
-486	1	SLV	0.35	-486	1	SLV	0.34	-485	1	SLV	0.35	-485	1	SLV	0.35
-484	1	SLV	0.35	-484	1	SLV	0.34	-483	1	SLV	0.33	-483	1	SLV	0.33
-482	1	SLV	0.32	-482	1	SLV	0.32	-481	1	SLV	0.33	-481	1	SLV	0.32
-480	1	SLV	0.34	-480	1	SLV	0.34	-479	1	SLV	0.35	-479	1	SLV	0.35
-478	1	SLV	0.35	-478	1	SLV	0.34	-477	1	SLV	0.35	-477	1	SLV	0.33
-476	1	SLV	0.38	-476	1	SLV	0.33	-475	1	SLV	0.44	-475	1	SLV	0.36
-474	1	SLV	0.54	-474	1	SLV	0.41	-473	1	SLV	0.65	-473	1	SLV	0.47
-472	1	SLV	0.67	-472	1	SLV	0.48	-471	1	SLV	0.62	-471	1	SLV	0.46
-470	1	SLV	0.60	-470	1	SLV	0.45	-469	1	SLV	0.52	-469	1	SLV	0.40
-468	1	SLV	0.44	-468	1	SLV	0.36	-467	1	SLV	0.37	-467	1	SLV	0.33
-466	1	SLV	0.34	-466	1	SLV	0.31	-465	1	SLV	0.33	-465	1	SLV	0.32
-464	1	SLV	0.32	-464	1	SLV	0.32	-463	1	SLV	0.32	-463	1	SLV	0.32
-462	1	SLV	0.31	-462	1	SLV	0.31	-461	1	SLV	0.31	-461	1	SLV	0.31

-460	1	SLV	0.31	-460	1	SLV	0.31	-459	1	SLV	0.32	-459	1	SLV	0.31
-458	1	SLV	0.32	-458	1	SLV	0.32	-457	1	SLV	0.32	-457	1	SLV	0.32
-456	1	SLV	0.34	-456	1	SLV	0.32	-455	1	SLV	0.37	-455	1	SLV	0.33
-454	1	SLV	0.44	-454	1	SLV	0.36	-453	1	SLV	0.53	-453	1	SLV	0.41
-452	1	SLV	0.64	-452	1	SLV	0.46	-451	1	SLV	0.66	-451	1	SLV	0.48
-450	1	SLV	0.61	-450	1	SLV	0.46	-449	1	SLV	0.59	-449	1	SLV	0.44
-448	1	SLV	0.51	-448	1	SLV	0.40	-447	1	SLV	0.43	-447	1	SLV	0.36
-446	1	SLV	0.37	-446	1	SLV	0.32	-445	1	SLV	0.33	-445	1	SLV	0.31
-444	1	SLV	0.32	-444	1	SLV	0.31	-443	1	SLV	0.31	-443	1	SLV	0.31
-442	1	SLV	0.31	-442	1	SLV	0.31	-441	1	SLV	0.31	-441	1	SLV	0.31
-440	1	SLV	0.31	-440	1	SLV	0.30	-439	1	SLV	0.31	-439	1	SLV	0.30
-438	1	SLV	0.31	-438	1	SLV	0.30	-437	1	SLV	0.31	-437	1	SLV	0.31
-436	1	SLV	0.32	-436	1	SLV	0.31	-435	1	SLV	0.33	-435	1	SLV	0.31
-434	1	SLV	0.37	-434	1	SLV	0.33	-433	1	SLV	0.44	-433	1	SLV	0.36
-432	1	SLV	0.53	-432	1	SLV	0.41	-431	1	SLV	0.63	-431	1	SLV	0.46
-430	1	SLV	0.66	-430	1	SLV	0.47	-429	1	SLV	0.60	-429	1	SLV	0.45
-428	1	SLV	0.58	-428	1	SLV	0.44	-427	1	SLV	0.50	-427	1	SLV	0.40
-426	1	SLV	0.43	-426	1	SLV	0.36	-425	1	SLV	0.37	-425	1	SLV	0.33
-424	1	SLV	0.34	-424	1	SLV	0.32	-423	1	SLV	0.33	-423	1	SLV	0.32
-422	1	SLV	0.33	-422	1	SLV	0.32	-421	1	SLV	0.33	-421	1	SLV	0.32
-420	1	SLV	0.32	-420	1	SLV	0.32	-419	1	SLV	0.31	-419	1	SLV	0.31
-418	1	SLV	0.32	-418	1	SLV	0.31	-417	1	SLV	0.32	-417	1	SLV	0.32
-416	1	SLV	0.33	-416	1	SLV	0.32	-415	1	SLV	0.33	-415	1	SLV	0.32
-414	1	SLV	0.34	-414	1	SLV	0.32	-413	1	SLV	0.37	-413	1	SLV	0.33
-412	1	SLV	0.44	-412	1	SLV	0.36	-411	1	SLV	0.53	-411	1	SLV	0.41
-410	1	SLV	0.63	-410	1	SLV	0.46	-409	1	SLV	0.65	-409	1	SLV	0.47
-408	1	SLV	0.60	-408	1	SLV	0.45	-407	1	SLV	0.58	-407	1	SLV	0.44
-406	1	SLV	0.50	-406	1	SLV	0.40	-405	1	SLV	0.43	-405	1	SLV	0.36
-404	1	SLV	0.37	-404	1	SLV	0.33	-403	1	SLV	0.35	-403	1	SLV	0.33
-402	1	SLV	0.35	-402	1	SLV	0.35	-401	1	SLV	0.36	-401	1	SLV	0.35
-400	1	SLV	0.36	-400	1	SLV	0.35	-399	1	SLV	0.34	-399	1	SLV	0.34
-398	1	SLV	0.33	-398	1	SLV	0.33	-397	1	SLV	0.33	-397	1	SLV	0.33
-396	1	SLV	0.35	-396	1	SLV	0.34	-395	1	SLV	0.36	-395	1	SLV	0.35
-394	1	SLV	0.35	-394	1	SLV	0.35	-393	1	SLV	0.35	-393	1	SLV	0.33
-392	1	SLV	0.38	-392	1	SLV	0.34	-391	1	SLV	0.44	-391	1	SLV	0.36
-390	1	SLV	0.53	-390	1	SLV	0.41	-389	1	SLV	0.63	-389	1	SLV	0.46
-388	1	SLV	0.65	-388	1	SLV	0.47	-387	1	SLV	0.59	-387	1	SLV	0.44
-386	1	SLV	0.50	-386	1	SLV	0.40	-385	1	SLV	0.43	-385	1	SLV	0.36
-384	1	SLV	0.37	-384	1	SLV	0.34	-383	1	SLV	0.35	-383	1	SLV	0.34
-382	1	SLV	0.37	-382	1	SLV	0.36	-381	1	SLV	0.38	-381	1	SLV	0.37
-380	1	SLV	0.35	-380	1	SLV	0.35	-379	1	SLV	0.34	-379	1	SLV	0.33
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-376	1	SLV	0.37	-376	1	SLV	0.36	-375	1	SLV	0.36	-375	1	SLV	0.34
-374	1	SLV	0.38	-374	1	SLV	0.34	-373	1	SLV	0.44	-373	1	SLV	0.37
-372	1	SLV	0.53	-372	1	SLV	0.41	-371	1	SLV	0.64	-371	1	SLV	0.47
-370	1	SLV	0.58	-370	1	SLV	0.44	-369	1	SLV	0.56	-369	1	SLV	0.43
-368	1	SLV	0.49	-368	1	SLV	0.39	-367	1	SLV	0.42	-367	1	SLV	0.35
-366	1	SLV	0.37	-366	1	SLV	0.33	-365	1	SLV	0.35	-365	1	SLV	0.33
-364	1	SLV	0.35	-364	1	SLV	0.35	-363	1	SLV	0.36	-363	1	SLV	0.36
-362	1	SLV	0.36	-362	1	SLV	0.35	-361	1	SLV	0.34	-361	1	SLV	0.34
-360	1	SLV	0.33	-360	1	SLV	0.33	-359	1	SLV	0.34	-359	1	SLV	0.33

-358	1	SLV	0.35	-358	1	SLV	0.35	-357	1	SLV	0.36	-357	1	SLV	0.36
-356	1	SLV	0.36	-356	1	SLV	0.35	-355	1	SLV	0.36	-355	1	SLV	0.34
-354	1	SLV	0.38	-354	1	SLV	0.34	-353	1	SLV	0.44	-353	1	SLV	0.36
-352	1	SLV	0.52	-352	1	SLV	0.41	-351	1	SLV	0.62	-351	1	SLV	0.46
-350	1	SLV	0.64	-350	1	SLV	0.47	-349	1	SLV	0.57	-349	1	SLV	0.43
-348	1	SLV	0.55	-348	1	SLV	0.42	-347	1	SLV	0.48	-347	1	SLV	0.38
-346	1	SLV	0.41	-346	1	SLV	0.35	-345	1	SLV	0.36	-345	1	SLV	0.33
-344	1	SLV	0.34	-344	1	SLV	0.32	-343	1	SLV	0.33	-343	1	SLV	0.33
-342	1	SLV	0.33	-342	1	SLV	0.33	-341	1	SLV	0.33	-341	1	SLV	0.33
-340	1	SLV	0.33	-340	1	SLV	0.32	-339	1	SLV	0.32	-339	1	SLV	0.32
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-336	1	SLV	0.33	-336	1	SLV	0.33	-335	1	SLV	0.33	-335	1	SLV	0.33
-334	1	SLV	0.34	-334	1	SLV	0.32	-333	1	SLV	0.37	-333	1	SLV	0.33
-332	1	SLV	0.43	-332	1	SLV	0.36	-331	1	SLV	0.52	-331	1	SLV	0.40
-330	1	SLV	0.61	-330	1	SLV	0.45	-329	1	SLV	0.64	-329	1	SLV	0.46
-328	1	SLV	0.56	-328	1	SLV	0.43	-327	1	SLV	0.54	-327	1	SLV	0.42
-326	1	SLV	0.47	-326	1	SLV	0.38	-325	1	SLV	0.41	-325	1	SLV	0.34
-324	1	SLV	0.36	-324	1	SLV	0.32	-323	1	SLV	0.33	-323	1	SLV	0.31
-322	1	SLV	0.32	-322	1	SLV	0.32	-321	1	SLV	0.32	-321	1	SLV	0.32
-320	1	SLV	0.32	-320	1	SLV	0.32	-319	1	SLV	0.32	-319	1	SLV	0.31
-318	1	SLV	0.32	-318	1	SLV	0.31	-317	1	SLV	0.32	-317	1	SLV	0.31
-316	1	SLV	0.32	-316	1	SLV	0.32	-315	1	SLV	0.32	-315	1	SLV	0.32
-314	1	SLV	0.32	-314	1	SLV	0.32	-313	1	SLV	0.34	-313	1	SLV	0.32
-312	1	SLV	0.37	-312	1	SLV	0.33	-311	1	SLV	0.43	-311	1	SLV	0.36
-310	1	SLV	0.51	-310	1	SLV	0.40	-309	1	SLV	0.61	-309	1	SLV	0.45
-308	1	SLV	0.63	-308	1	SLV	0.46	-307	1	SLV	0.55	-307	1	SLV	0.42
-306	1	SLV	0.54	-306	1	SLV	0.41	-305	1	SLV	0.47	-305	1	SLV	0.37
-304	1	SLV	0.40	-304	1	SLV	0.34	-303	1	SLV	0.35	-303	1	SLV	0.32
-302	1	SLV	0.33	-302	1	SLV	0.32	-301	1	SLV	0.33	-301	1	SLV	0.33
-300	1	SLV	0.33	-300	1	SLV	0.33	-299	1	SLV	0.33	-299	1	SLV	0.33
-298	1	SLV	0.33	-298	1	SLV	0.32	-297	1	SLV	0.32	-297	1	SLV	0.32
-296	1	SLV	0.33	-296	1	SLV	0.32	-295	1	SLV	0.33	-295	1	SLV	0.33
-294	1	SLV	0.33	-294	1	SLV	0.33	-293	1	SLV	0.33	-293	1	SLV	0.33
-292	1	SLV	0.34	-292	1	SLV	0.33	-291	1	SLV	0.37	-291	1	SLV	0.33
-290	1	SLV	0.43	-290	1	SLV	0.36	-289	1	SLV	0.51	-289	1	SLV	0.40
-288	1	SLV	0.61	-288	1	SLV	0.45	-287	1	SLV	0.63	-287	1	SLV	0.46
-286	1	SLV	0.55	-286	1	SLV	0.41	-285	1	SLV	0.53	-285	1	SLV	0.41
-284	1	SLV	0.46	-284	1	SLV	0.37	-283	1	SLV	0.40	-283	1	SLV	0.34
-282	1	SLV	0.36	-282	1	SLV	0.32	-281	1	SLV	0.34	-281	1	SLV	0.33
-280	1	SLV	0.35	-280	1	SLV	0.35	-279	1	SLV	0.36	-279	1	SLV	0.36
-278	1	SLV	0.36	-278	1	SLV	0.35	-277	1	SLV	0.34	-277	1	SLV	0.34
-276	1	SLV	0.33	-276	1	SLV	0.33	-275	1	SLV	0.34	-275	1	SLV	0.33
-274	1	SLV	0.36	-274	1	SLV	0.35	-273	1	SLV	0.37	-273	1	SLV	0.36
-272	1	SLV	0.36	-272	1	SLV	0.35	-271	1	SLV	0.35	-271	1	SLV	0.34
-270	1	SLV	0.38	-270	1	SLV	0.34	-269	1	SLV	0.43	-269	1	SLV	0.36
-268	1	SLV	0.51	-268	1	SLV	0.40	-267	1	SLV	0.60	-267	1	SLV	0.45
-266	1	SLV	0.63	-266	1	SLV	0.46	-265	1	SLV	0.54	-265	1	SLV	0.41
-264	1	SLV	0.46	-264	1	SLV	0.37	-263	1	SLV	0.40	-263	1	SLV	0.34
-262	1	SLV	0.36	-262	1	SLV	0.32	-261	1	SLV	0.35	-261	1	SLV	0.33
-260	1	SLV	0.36	-260	1	SLV	0.36	-259	1	SLV	0.37	-259	1	SLV	0.37
-258	1	SLV	0.35	-258	1	SLV	0.35	-257	1	SLV	0.34	-257	1	SLV	0.33

-256	1	SLV	0.35	-256	1	SLV	0.34	-255	1	SLV	0.38	-255	1	SLV	0.36
-254	1	SLV	0.37	-254	1	SLV	0.37	-253	1	SLV	0.36	-253	1	SLV	0.35
-252	1	SLV	0.38	-252	1	SLV	0.34	-251	1	SLV	0.43	-251	1	SLV	0.36
-250	1	SLV	0.51	-250	1	SLV	0.40	-249	1	SLV	0.62	-249	1	SLV	0.45
-248	1	SLV	0.53	-248	1	SLV	0.40	-247	1	SLV	0.52	-247	1	SLV	0.39
-246	1	SLV	0.45	-246	1	SLV	0.36	-245	1	SLV	0.39	-245	1	SLV	0.33
-244	1	SLV	0.35	-244	1	SLV	0.32	-243	1	SLV	0.34	-243	1	SLV	0.32
-242	1	SLV	0.35	-242	1	SLV	0.34	-241	1	SLV	0.36	-241	1	SLV	0.36
-240	1	SLV	0.36	-240	1	SLV	0.35	-239	1	SLV	0.34	-239	1	SLV	0.34
-238	1	SLV	0.34	-238	1	SLV	0.32	-237	1	SLV	0.35	-237	1	SLV	0.33
-236	1	SLV	0.37	-236	1	SLV	0.34	-235	1	SLV	0.38	-235	1	SLV	0.36
-234	1	SLV	0.37	-234	1	SLV	0.35	-233	1	SLV	0.36	-233	1	SLV	0.34
-232	1	SLV	0.38	-232	1	SLV	0.34	-231	1	SLV	0.43	-231	1	SLV	0.36
-230	1	SLV	0.51	-230	1	SLV	0.40	-229	1	SLV	0.60	-229	1	SLV	0.44
-228	1	SLV	0.62	-228	1	SLV	0.45	-227	1	SLV	0.53	-227	1	SLV	0.39
-226	1	SLV	0.51	-226	1	SLV	0.39	-225	1	SLV	0.44	-225	1	SLV	0.35
-224	1	SLV	0.39	-224	1	SLV	0.33	-223	1	SLV	0.34	-223	1	SLV	0.31
-222	1	SLV	0.32	-222	1	SLV	0.31	-221	1	SLV	0.32	-221	1	SLV	0.32
-220	1	SLV	0.33	-220	1	SLV	0.32	-219	1	SLV	0.33	-219	1	SLV	0.32
-218	1	SLV	0.33	-218	1	SLV	0.32	-217	1	SLV	0.33	-217	1	SLV	0.31
-216	1	SLV	0.34	-216	1	SLV	0.31	-215	1	SLV	0.35	-215	1	SLV	0.32
-214	1	SLV	0.36	-214	1	SLV	0.32	-213	1	SLV	0.36	-213	1	SLV	0.33
-212	1	SLV	0.35	-212	1	SLV	0.34	-211	1	SLV	0.37	-211	1	SLV	0.34
-210	1	SLV	0.43	-210	1	SLV	0.36	-209	1	SLV	0.51	-209	1	SLV	0.40
-208	1	SLV	0.60	-208	1	SLV	0.44	-207	1	SLV	0.62	-207	1	SLV	0.45
-206	1	SLV	0.52	-206	1	SLV	0.39	-205	1	SLV	0.50	-205	1	SLV	0.38
-204	1	SLV	0.44	-204	1	SLV	0.35	-203	1	SLV	0.38	-203	1	SLV	0.32
-202	1	SLV	0.33	-202	1	SLV	0.30	-201	1	SLV	0.31	-201	1	SLV	0.29
-200	1	SLV	0.31	-200	1	SLV	0.30	-199	1	SLV	0.31	-199	1	SLV	0.30
-198	1	SLV	0.32	-198	1	SLV	0.30	-197	1	SLV	0.32	-197	1	SLV	0.30
-196	1	SLV	0.33	-196	1	SLV	0.29	-195	1	SLV	0.34	-195	1	SLV	0.29
-194	1	SLV	0.35	-194	1	SLV	0.30	-193	1	SLV	0.36	-193	1	SLV	0.31
-192	1	SLV	0.36	-192	1	SLV	0.32	-191	1	SLV	0.36	-191	1	SLV	0.33
-190	1	SLV	0.38	-190	1	SLV	0.35	-189	1	SLV	0.43	-189	1	SLV	0.37
-188	1	SLV	0.51	-188	1	SLV	0.40	-187	1	SLV	0.59	-187	1	SLV	0.43
-186	1	SLV	0.61	-186	1	SLV	0.44	-185	1	SLV	0.52	-185	1	SLV	0.38
-184	1	SLV	0.50	-184	1	SLV	0.37	-183	1	SLV	0.43	-183	1	SLV	0.34
-182	1	SLV	0.38	-182	1	SLV	0.31	-181	1	SLV	0.33	-181	1	SLV	0.29
-180	1	SLV	0.31	-180	1	SLV	0.29	-179	1	SLV	0.31	-179	1	SLV	0.29
-178	1	SLV	0.31	-178	1	SLV	0.30	-177	1	SLV	0.32	-177	1	SLV	0.30
-176	1	SLV	0.33	-176	1	SLV	0.29	-175	1	SLV	0.34	-175	1	SLV	0.29
-174	1	SLV	0.36	-174	1	SLV	0.29	-173	1	SLV	0.38	-173	1	SLV	0.30
-172	1	SLV	0.39	-172	1	SLV	0.31	-171	1	SLV	0.39	-171	1	SLV	0.32
-170	1	SLV	0.39	-170	1	SLV	0.34	-169	1	SLV	0.40	-169	1	SLV	0.37
-168	1	SLV	0.44	-168	1	SLV	0.38	-167	1	SLV	0.51	-167	1	SLV	0.40
-166	1	SLV	0.59	-166	1	SLV	0.43	-165	1	SLV	0.61	-165	1	SLV	0.44
-164	1	SLV	0.51	-164	1	SLV	0.37	-163	1	SLV	0.50	-163	1	SLV	0.36
-162	1	SLV	0.43	-162	1	SLV	0.33	-161	1	SLV	0.38	-161	1	SLV	0.31
-160	1	SLV	0.34	-160	1	SLV	0.29	-159	1	SLV	0.32	-159	1	SLV	0.30
-158	1	SLV	0.33	-158	1	SLV	0.31	-157	1	SLV	0.33	-157	1	SLV	0.31
-156	1	SLV	0.34	-156	1	SLV	0.31	-155	1	SLV	0.35	-155	1	SLV	0.31

-154	1	SLV	0.37	-154	1	SLV	0.30	-153	1	SLV	0.39	-153	1	SLV	0.30
-152	1	SLV	0.42	-152	1	SLV	0.31	-151	1	SLV	0.44	-151	1	SLV	0.33
-150	1	SLV	0.44	-150	1	SLV	0.35	-149	1	SLV	0.43	-149	1	SLV	0.37
-148	1	SLV	0.43	-148	1	SLV	0.39	-147	1	SLV	0.46	-147	1	SLV	0.40
-146	1	SLV	0.52	-146	1	SLV	0.41	-145	1	SLV	0.59	-145	1	SLV	0.43
-144	1	SLV	0.60	-144	1	SLV	0.43	-143	1	SLV	0.51	-143	1	SLV	0.36
-142	1	SLV	0.49	-142	1	SLV	0.35	-141	1	SLV	0.43	-141	1	SLV	0.32
-140	1	SLV	0.38	-140	1	SLV	0.30	-139	1	SLV	0.34	-139	1	SLV	0.29
-138	1	SLV	0.33	-138	1	SLV	0.30	-137	1	SLV	0.35	-137	1	SLV	0.33
-136	1	SLV	0.36	-136	1	SLV	0.34	-135	1	SLV	0.37	-135	1	SLV	0.34
-134	1	SLV	0.37	-134	1	SLV	0.32	-133	1	SLV	0.39	-133	1	SLV	0.31
-132	1	SLV	0.43	-132	1	SLV	0.32	-131	1	SLV	0.48	-131	1	SLV	0.34
-130	1	SLV	0.51	-130	1	SLV	0.37	-129	1	SLV	0.51	-129	1	SLV	0.39
-128	1	SLV	0.49	-128	1	SLV	0.41	-127	1	SLV	0.48	-127	1	SLV	0.43
-126	1	SLV	0.50	-126	1	SLV	0.43	-125	1	SLV	0.54	-125	1	SLV	0.43
-124	1	SLV	0.59	-124	1	SLV	0.43	-123	1	SLV	0.60	-123	1	SLV	0.42
-122	1	SLV	0.51	-122	1	SLV	0.35	-121	1	SLV	0.43	-121	1	SLV	0.32
-120	1	SLV	0.38	-120	1	SLV	0.30	-119	1	SLV	0.35	-119	1	SLV	0.29
-118	1	SLV	0.34	-118	1	SLV	0.31	-117	1	SLV	0.36	-117	1	SLV	0.34
-116	1	SLV	0.38	-116	1	SLV	0.36	-115	1	SLV	0.38	-115	1	SLV	0.33
-114	1	SLV	0.40	-114	1	SLV	0.32	-113	1	SLV	0.44	-113	1	SLV	0.33
-112	1	SLV	0.51	-112	1	SLV	0.36	-111	1	SLV	0.57	-111	1	SLV	0.43
-110	1	SLV	0.55	-110	1	SLV	0.45	-109	1	SLV	0.53	-109	1	SLV	0.47
-108	1	SLV	0.54	-108	1	SLV	0.47	-107	1	SLV	0.56	-107	1	SLV	0.45
-106	1	SLV	0.59	-106	1	SLV	0.42	-105	1	SLV	0.50	-105	1	SLV	0.34
-104	1	SLV	0.49	-104	1	SLV	0.34	-103	1	SLV	0.43	-103	1	SLV	0.32
-102	1	SLV	0.38	-102	1	SLV	0.30	-101	1	SLV	0.35	-101	1	SLV	0.29
-100	1	SLV	0.34	-100	1	SLV	0.31	-99	1	SLV	0.36	-99	1	SLV	0.34
-98	1	SLV	0.38	-98	1	SLV	0.36	-97	1	SLV	0.38	-97	1	SLV	0.36
-96	1	SLV	0.38	-96	1	SLV	0.34	-95	1	SLV	0.40	-95	1	SLV	0.32
-94	1	SLV	0.44	-94	1	SLV	0.33	-93	1	SLV	0.51	-93	1	SLV	0.36
-92	1	SLV	0.58	-92	1	SLV	0.40	-91	1	SLV	0.58	-91	1	SLV	0.44
-90	1	SLV	0.56	-90	1	SLV	0.46	-89	1	SLV	0.54	-89	1	SLV	0.48
-88	1	SLV	0.55	-88	1	SLV	0.47	-87	1	SLV	0.57	-87	1	SLV	0.45
-86	1	SLV	0.59	-86	1	SLV	0.42	-85	1	SLV	0.59	-85	1	SLV	0.42
-84	1	SLV	0.50	-84	1	SLV	0.33	-83	1	SLV	0.49	-83	1	SLV	0.33
-82	1	SLV	0.43	-82	1	SLV	0.31	-81	1	SLV	0.38	-81	1	SLV	0.29
-80	1	SLV	0.35	-80	1	SLV	0.29	-79	1	SLV	0.34	-79	1	SLV	0.30
-78	1	SLV	0.35	-78	1	SLV	0.33	-77	1	SLV	0.36	-77	1	SLV	0.34
-76	1	SLV	0.36	-76	1	SLV	0.34	-75	1	SLV	0.36	-75	1	SLV	0.33
-74	1	SLV	0.38	-74	1	SLV	0.33	-73	1	SLV	0.42	-73	1	SLV	0.34
-72	1	SLV	0.47	-72	1	SLV	0.37	-71	1	SLV	0.53	-71	1	SLV	0.40
-70	1	SLV	0.50	-70	1	SLV	0.32	-69	1	SLV	0.48	-69	1	SLV	0.31
-68	1	SLV	0.43	-68	1	SLV	0.30	-67	1	SLV	0.38	-67	1	SLV	0.29
-66	1	SLV	0.35	-66	1	SLV	0.29	-65	1	SLV	0.33	-65	1	SLV	0.30
-64	1	SLV	0.33	-64	1	SLV	0.31	-63	1	SLV	0.34	-63	1	SLV	0.31
-62	1	SLV	0.35	-62	1	SLV	0.31	-61	1	SLV	0.35	-61	1	SLV	0.31
-60	1	SLV	0.36	-60	1	SLV	0.32	-59	1	SLV	0.38	-59	1	SLV	0.34
-58	1	SLV	0.40	-58	1	SLV	0.36	-57	1	SLV	0.44	-57	1	SLV	0.39
-56	1	SLV	0.49	-56	1	SLV	0.30	-55	1	SLV	0.48	-55	1	SLV	0.30
-54	1	SLV	0.43	-54	1	SLV	0.30	-53	1	SLV	0.39	-53	1	SLV	0.29

-52	1	SLV	0.36	-52	1	SLV	0.29	-51	1	SLV	0.34	-51	1	SLV	0.30
-50	1	SLV	0.35	-50	1	SLV	0.29	-49	1	SLV	0.36	-49	1	SLV	0.28
-48	1	SLV	0.37	-48	1	SLV	0.28	-47	1	SLV	0.38	-47	1	SLV	0.27
-46	1	SLV	0.39	-46	1	SLV	0.27	-45	1	SLV	0.41	-45	1	SLV	0.28
-44	1	SLV	0.43	-44	1	SLV	0.29	-43	1	SLV	0.46	-43	1	SLV	0.30
-42	1	SLV	0.49	-42	1	SLV	0.29	-41	1	SLV	0.48	-41	1	SLV	0.29
-40	1	SLV	0.44	-40	1	SLV	0.29	-39	1	SLV	0.41	-39	1	SLV	0.30
-38	1	SLV	0.38	-38	1	SLV	0.31	-37	1	SLV	0.37	-37	1	SLV	0.31
-36	1	SLV	0.39	-36	1	SLV	0.29	-35	1	SLV	0.40	-35	1	SLV	0.27
-34	1	SLV	0.41	-34	1	SLV	0.26	-33	1	SLV	0.43	-33	1	SLV	0.25
-32	1	SLV	0.45	-32	1	SLV	0.23	-31	1	SLV	0.47	-31	1	SLV	0.22
-30	1	SLV	0.50	-30	1	SLV	0.21	-29	1	SLV	0.52	-29	1	SLV	0.20
-28	1	SLV	0.48	-28	1	SLV	0.27	-27	1	SLV	0.48	-27	1	SLV	0.28
-26	1	SLV	0.45	-26	1	SLV	0.29	-25	1	SLV	0.43	-25	1	SLV	0.31
-24	1	SLV	0.41	-24	1	SLV	0.32	-23	1	SLV	0.42	-23	1	SLV	0.32
-22	1	SLV	0.44	-22	1	SLV	0.30	-21	1	SLV	0.46	-21	1	SLV	0.27
-20	1	SLV	0.47	-20	1	SLV	0.26	-19	1	SLV	0.50	-19	1	SLV	0.23
-18	1	SLV	0.52	-18	1	SLV	0.20	-17	1	SLV	0.55	-17	1	SLV	0.17
-16	1	SLV	0.58	-16	1	SLV	0.15	-15	1	SLV	0.60	-15	1	SLV	0.12
-14	1	SLV	0.48	-14	1	SLV	0.27	-13	1	SLV	0.48	-13	1	SLV	0.27
-12	1	SLV	0.46	-12	1	SLV	0.29	-11	1	SLV	0.44	-11	1	SLV	0.31
-10	1	SLV	0.42	-10	1	SLV	0.33	-9	1	SLV	0.43	-9	1	SLV	0.32
-8	1	SLV	0.45	-8	1	SLV	0.30	-7	1	SLV	0.47	-7	1	SLV	0.27
-6	1	SLV	0.49	-6	1	SLV	0.25	-5	1	SLV	0.51	-5	1	SLV	0.22
-4	1	SLV	0.54	-4	1	SLV	0.19	-3	1	SLV	0.57	-3	1	SLV	0.16
-2	1	SLV	0.59	-2	1	SLV	0.13	-1	1	SLV	0.62	-1	1	SLV	0.10
1	1	SLV	0.59	1	1	SLV	0.42	2	1	SLV	0.58	2	1	SLV	0.40
3	1	SLV	0.39	3	1	SLV	0.37	4	1	SLV	0.49	4	1	SLV	0.34
5	1	SLV	0.60	5	1	SLV	0.44	6	1	SLV	0.39	6	1	SLV	0.38
7	1	SLV	0.38	7	1	SLV	0.38	8	1	SLV	0.52	8	1	SLV	0.40
9	1	SLV	0.62	9	1	SLV	0.46	10	1	SLV	0.38	10	1	SLV	0.38
11	1	SLV	0.39	11	1	SLV	0.38	12	1	SLV	0.57	12	1	SLV	0.43
13	1	SLV	0.65	13	1	SLV	0.47	14	1	SLV	0.38	14	1	SLV	0.37
15	1	SLV	0.38	15	1	SLV	0.37	16	1	SLV	0.62	16	1	SLV	0.45
17	1	SLV	0.69	17	1	SLV	0.46	18	1	SLV	0.37	18	1	SLV	0.37
19	1	SLV	0.38	19	1	SLV	0.37	20	1	SLV	0.53	20	1	SLV	0.43
21	1	SLV	0.73	21	1	SLV	0.44	22	1	SLV	0.40	22	1	SLV	0.38
23	1	SLV	0.80	23	1	SLV	0.42	24	1	SLV	0.65	24	1	SLV	0.48
-900	3	SLV	0.64	-900	3	SLV	0.36	-899	3	SLV	0.63	-899	3	SLV	0.36
-898	3	SLV	0.62	-898	3	SLV	0.39	-897	3	SLV	0.60	-897	3	SLV	0.42
-896	3	SLV	0.59	-896	3	SLV	0.45	-895	3	SLV	0.57	-895	3	SLV	0.47
-894	3	SLV	0.56	-894	3	SLV	0.50	-893	3	SLV	0.54	-893	3	SLV	0.52
-892	3	SLV	0.54	-892	3	SLV	0.54	-891	3	SLV	0.54	-891	3	SLV	0.56
-890	3	SLV	0.56	-890	3	SLV	0.56	-889	3	SLV	0.58	-889	3	SLV	0.55
-888	3	SLV	0.61	-888	3	SLV	0.54	-887	3	SLV	0.63	-887	3	SLV	0.53
-886	3	SLV	0.66	-886	3	SLV	0.53	-885	3	SLV	0.68	-885	3	SLV	0.52
-884	3	SLV	0.70	-884	3	SLV	0.50	-883	3	SLV	0.72	-883	3	SLV	0.49
-882	3	SLV	0.74	-882	3	SLV	0.48	-881	3	SLV	0.76	-881	3	SLV	0.47
-880	3	SLV	0.77	-880	3	SLV	0.47	-879	3	SLV	0.63	-879	3	SLV	0.36
-878	3	SLV	0.63	-878	3	SLV	0.36	-877	3	SLV	0.61	-877	3	SLV	0.39
-876	3	SLV	0.60	-876	3	SLV	0.41	-875	3	SLV	0.58	-875	3	SLV	0.44

-874	3	SLV	0.57	-874	3	SLV	0.47	-873	3	SLV	0.55	-873	3	SLV	0.49
-872	3	SLV	0.54	-872	3	SLV	0.52	-871	3	SLV	0.53	-871	3	SLV	0.53
-870	3	SLV	0.53	-870	3	SLV	0.55	-869	3	SLV	0.55	-869	3	SLV	0.55
-868	3	SLV	0.57	-868	3	SLV	0.54	-867	3	SLV	0.59	-867	3	SLV	0.53
-866	3	SLV	0.64	-866	3	SLV	0.51	-865	3	SLV	0.66	-865	3	SLV	0.50
-864	3	SLV	0.68	-864	3	SLV	0.49	-863	3	SLV	0.70	-863	3	SLV	0.48
-862	3	SLV	0.73	-862	3	SLV	0.48	-861	3	SLV	0.76	-861	3	SLV	0.47
-860	3	SLV	0.63	-860	3	SLV	0.35	-859	3	SLV	0.62	-859	3	SLV	0.35
-858	3	SLV	0.60	-858	3	SLV	0.37	-857	3	SLV	0.58	-857	3	SLV	0.39
-856	3	SLV	0.56	-856	3	SLV	0.42	-855	3	SLV	0.54	-855	3	SLV	0.45
-854	3	SLV	0.54	-854	3	SLV	0.48	-853	3	SLV	0.53	-853	3	SLV	0.51
-852	3	SLV	0.53	-852	3	SLV	0.52	-851	3	SLV	0.51	-851	3	SLV	0.53
-850	3	SLV	0.51	-850	3	SLV	0.51	-849	3	SLV	0.52	-849	3	SLV	0.50
-848	3	SLV	0.53	-848	3	SLV	0.48	-847	3	SLV	0.55	-847	3	SLV	0.47
-846	3	SLV	0.56	-846	3	SLV	0.46	-845	3	SLV	0.58	-845	3	SLV	0.45
-844	3	SLV	0.61	-844	3	SLV	0.45	-843	3	SLV	0.65	-843	3	SLV	0.45
-842	3	SLV	0.69	-842	3	SLV	0.46	-841	3	SLV	0.75	-841	3	SLV	0.47
-840	3	SLV	0.76	-840	3	SLV	0.47	-839	3	SLV	0.62	-839	3	SLV	0.34
-838	3	SLV	0.62	-838	3	SLV	0.34	-837	3	SLV	0.59	-837	3	SLV	0.35
-836	3	SLV	0.56	-836	3	SLV	0.37	-835	3	SLV	0.54	-835	3	SLV	0.39
-834	3	SLV	0.53	-834	3	SLV	0.43	-833	3	SLV	0.53	-833	3	SLV	0.46
-832	3	SLV	0.53	-832	3	SLV	0.50	-831	3	SLV	0.52	-831	3	SLV	0.51
-830	3	SLV	0.50	-830	3	SLV	0.51	-829	3	SLV	0.49	-829	3	SLV	0.48
-828	3	SLV	0.48	-828	3	SLV	0.46	-827	3	SLV	0.48	-827	3	SLV	0.44
-826	3	SLV	0.48	-826	3	SLV	0.42	-825	3	SLV	0.49	-825	3	SLV	0.41
-824	3	SLV	0.51	-824	3	SLV	0.41	-823	3	SLV	0.55	-823	3	SLV	0.41
-822	3	SLV	0.60	-822	3	SLV	0.42	-821	3	SLV	0.66	-821	3	SLV	0.44
-820	3	SLV	0.74	-820	3	SLV	0.47	-819	3	SLV	0.75	-819	3	SLV	0.47
-818	3	SLV	0.63	-818	3	SLV	0.32	-817	3	SLV	0.62	-817	3	SLV	0.32
-816	3	SLV	0.59	-816	3	SLV	0.33	-815	3	SLV	0.56	-815	3	SLV	0.35
-814	3	SLV	0.54	-814	3	SLV	0.38	-813	3	SLV	0.53	-813	3	SLV	0.41
-812	3	SLV	0.53	-812	3	SLV	0.45	-811	3	SLV	0.53	-811	3	SLV	0.49
-810	3	SLV	0.52	-810	3	SLV	0.50	-809	3	SLV	0.49	-809	3	SLV	0.49
-808	3	SLV	0.46	-808	3	SLV	0.46	-807	3	SLV	0.44	-807	3	SLV	0.42
-806	3	SLV	0.42	-806	3	SLV	0.40	-805	3	SLV	0.42	-805	3	SLV	0.38
-804	3	SLV	0.42	-804	3	SLV	0.37	-803	3	SLV	0.44	-803	3	SLV	0.36
-802	3	SLV	0.48	-802	3	SLV	0.37	-801	3	SLV	0.54	-801	3	SLV	0.39
-800	3	SLV	0.63	-800	3	SLV	0.43	-799	3	SLV	0.73	-799	3	SLV	0.47
-798	3	SLV	0.75	-798	3	SLV	0.48	-797	3	SLV	0.64	-797	3	SLV	0.30
-796	3	SLV	0.63	-796	3	SLV	0.31	-795	3	SLV	0.60	-795	3	SLV	0.33
-794	3	SLV	0.57	-794	3	SLV	0.35	-793	3	SLV	0.55	-793	3	SLV	0.37
-792	3	SLV	0.54	-792	3	SLV	0.41	-791	3	SLV	0.53	-791	3	SLV	0.45
-790	3	SLV	0.53	-790	3	SLV	0.48	-789	3	SLV	0.52	-789	3	SLV	0.49
-788	3	SLV	0.48	-788	3	SLV	0.48	-787	3	SLV	0.44	-787	3	SLV	0.44
-786	3	SLV	0.42	-786	3	SLV	0.41	-785	3	SLV	0.40	-785	3	SLV	0.38
-784	3	SLV	0.39	-784	3	SLV	0.37	-783	3	SLV	0.39	-783	3	SLV	0.35
-782	3	SLV	0.40	-782	3	SLV	0.34	-781	3	SLV	0.44	-781	3	SLV	0.35
-780	3	SLV	0.51	-780	3	SLV	0.37	-779	3	SLV	0.61	-779	3	SLV	0.42
-778	3	SLV	0.72	-778	3	SLV	0.47	-777	3	SLV	0.74	-777	3	SLV	0.48
-776	3	SLV	0.64	-776	3	SLV	0.30	-775	3	SLV	0.63	-775	3	SLV	0.31
-774	3	SLV	0.60	-774	3	SLV	0.33	-773	3	SLV	0.58	-773	3	SLV	0.35

-772	3	SLV	0.56	-772	3	SLV	0.38	-771	3	SLV	0.54	-771	3	SLV	0.41
-770	3	SLV	0.54	-770	3	SLV	0.45	-769	3	SLV	0.53	-769	3	SLV	0.48
-768	3	SLV	0.51	-768	3	SLV	0.49	-767	3	SLV	0.48	-767	3	SLV	0.47
-766	3	SLV	0.44	-766	3	SLV	0.43	-765	3	SLV	0.41	-765	3	SLV	0.40
-764	3	SLV	0.40	-764	3	SLV	0.38	-763	3	SLV	0.39	-763	3	SLV	0.37
-762	3	SLV	0.39	-762	3	SLV	0.35	-761	3	SLV	0.39	-761	3	SLV	0.34
-760	3	SLV	0.43	-760	3	SLV	0.34	-759	3	SLV	0.50	-759	3	SLV	0.37
-758	3	SLV	0.60	-758	3	SLV	0.42	-757	3	SLV	0.71	-757	3	SLV	0.47
-756	3	SLV	0.74	-756	3	SLV	0.48	-755	3	SLV	0.63	-755	3	SLV	0.30
-754	3	SLV	0.62	-754	3	SLV	0.30	-753	3	SLV	0.60	-753	3	SLV	0.33
-752	3	SLV	0.58	-752	3	SLV	0.35	-751	3	SLV	0.56	-751	3	SLV	0.38
-750	3	SLV	0.55	-750	3	SLV	0.42	-749	3	SLV	0.54	-749	3	SLV	0.45
-748	3	SLV	0.52	-748	3	SLV	0.48	-747	3	SLV	0.51	-747	3	SLV	0.48
-746	3	SLV	0.47	-746	3	SLV	0.46	-745	3	SLV	0.42	-745	3	SLV	0.42
-744	3	SLV	0.40	-744	3	SLV	0.40	-743	3	SLV	0.40	-743	3	SLV	0.39
-742	3	SLV	0.40	-742	3	SLV	0.38	-741	3	SLV	0.39	-741	3	SLV	0.36
-740	3	SLV	0.39	-740	3	SLV	0.34	-739	3	SLV	0.42	-739	3	SLV	0.34
-738	3	SLV	0.49	-738	3	SLV	0.37	-737	3	SLV	0.59	-737	3	SLV	0.41
-736	3	SLV	0.71	-736	3	SLV	0.47	-735	3	SLV	0.74	-735	3	SLV	0.48
-734	3	SLV	0.62	-734	3	SLV	0.30	-733	3	SLV	0.61	-733	3	SLV	0.30
-732	3	SLV	0.60	-732	3	SLV	0.33	-731	3	SLV	0.58	-731	3	SLV	0.35
-730	3	SLV	0.56	-730	3	SLV	0.38	-729	3	SLV	0.54	-729	3	SLV	0.41
-728	3	SLV	0.53	-728	3	SLV	0.44	-727	3	SLV	0.51	-727	3	SLV	0.47
-726	3	SLV	0.50	-726	3	SLV	0.47	-725	3	SLV	0.45	-725	3	SLV	0.45
-724	3	SLV	0.41	-724	3	SLV	0.41	-723	3	SLV	0.39	-723	3	SLV	0.39
-722	3	SLV	0.39	-722	3	SLV	0.38	-721	3	SLV	0.38	-721	3	SLV	0.35
-720	3	SLV	0.38	-720	3	SLV	0.33	-719	3	SLV	0.41	-719	3	SLV	0.34
-718	3	SLV	0.48	-718	3	SLV	0.36	-717	3	SLV	0.59	-717	3	SLV	0.41
-716	3	SLV	0.73	-716	3	SLV	0.48	-715	3	SLV	0.58	-715	3	SLV	0.30
-714	3	SLV	0.58	-714	3	SLV	0.30	-713	3	SLV	0.56	-713	3	SLV	0.32
-712	3	SLV	0.54	-712	3	SLV	0.34	-711	3	SLV	0.52	-711	3	SLV	0.36
-710	3	SLV	0.50	-710	3	SLV	0.39	-709	3	SLV	0.49	-709	3	SLV	0.41
-708	3	SLV	0.47	-708	3	SLV	0.43	-707	3	SLV	0.45	-707	3	SLV	0.43
-706	3	SLV	0.42	-706	3	SLV	0.41	-705	3	SLV	0.39	-705	3	SLV	0.39
-704	3	SLV	0.37	-704	3	SLV	0.37	-703	3	SLV	0.37	-703	3	SLV	0.37
-702	3	SLV	0.37	-702	3	SLV	0.36	-701	3	SLV	0.36	-701	3	SLV	0.34
-700	3	SLV	0.37	-700	3	SLV	0.33	-699	3	SLV	0.40	-699	3	SLV	0.33
-698	3	SLV	0.47	-698	3	SLV	0.36	-697	3	SLV	0.58	-697	3	SLV	0.41
-696	3	SLV	0.70	-696	3	SLV	0.47	-695	3	SLV	0.73	-695	3	SLV	0.48
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-672	3	SLV	0.50	-672	3	SLV	0.32	-671	3	SLV	0.47	-671	3	SLV	0.32

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-407	3	SLV	0.48
-405	3	SLV	0.38
-403	3	SLV	0.34
-401	3	SLV	0.36
-399	3	SLV	0.34
-397	3	SLV	0.33
-395	3	SLV	0.35
-393	3	SLV	0.34
-391	3	SLV	0.37
-389	3	SLV	0.47
-387	3	SLV	0.48
-385	3	SLV	0.38
-383	3	SLV	0.34
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-377	3	SLV	0.36
-375	3	SLV	0.34
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-371	3	SLV	0.48
-369	3	SLV	0.46
-367	3	SLV	0.37
-365	3	SLV	0.34

-364	3	SLV	0.35	-364	3	SLV	0.35	-363	3	SLV	0.36	-363	3	SLV	0.36
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-360	3	SLV	0.33	-360	3	SLV	0.33	-359	3	SLV	0.34	-359	3	SLV	0.33
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-352	3	SLV	0.51	-352	3	SLV	0.42	-351	3	SLV	0.60	-351	3	SLV	0.47
-350	3	SLV	0.62	-350	3	SLV	0.48	-349	3	SLV	0.54	-349	3	SLV	0.46
-348	3	SLV	0.52	-348	3	SLV	0.45	-347	3	SLV	0.46	-347	3	SLV	0.40
-346	3	SLV	0.40	-346	3	SLV	0.36	-345	3	SLV	0.35	-345	3	SLV	0.33
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-328	3	SLV	0.54	-328	3	SLV	0.45	-327	3	SLV	0.52	-327	3	SLV	0.44
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-324	3	SLV	0.35	-324	3	SLV	0.33	-323	3	SLV	0.32	-323	3	SLV	0.32
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-288	3	SLV	0.58	-288	3	SLV	0.47	-287	3	SLV	0.61	-287	3	SLV	0.48
-286	3	SLV	0.53	-286	3	SLV	0.43	-285	3	SLV	0.52	-285	3	SLV	0.42
-284	3	SLV	0.45	-284	3	SLV	0.38	-283	3	SLV	0.39	-283	3	SLV	0.35
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-274	3	SLV	0.36	-274	3	SLV	0.35	-273	3	SLV	0.37	-273	3	SLV	0.36
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-264	3	SLV	0.45	-264	3	SLV	0.38	-263	3	SLV	0.39	-263	3	SLV	0.34

-262	3	SLV	0.35	-262	3	SLV	0.33	-261	3	SLV	0.34	-261	3	SLV	0.33
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-250	3	SLV	0.49	-250	3	SLV	0.42	-249	3	SLV	0.59	-249	3	SLV	0.48
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-240	3	SLV	0.36	-240	3	SLV	0.35	-239	3	SLV	0.34	-239	3	SLV	0.34
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-226	3	SLV	0.50	-226	3	SLV	0.39	-225	3	SLV	0.44	-225	3	SLV	0.36
-224	3	SLV	0.38	-224	3	SLV	0.33	-223	3	SLV	0.34	-223	3	SLV	0.31
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-210	3	SLV	0.41	-210	3	SLV	0.38	-209	3	SLV	0.48	-209	3	SLV	0.42
-208	3	SLV	0.56	-208	3	SLV	0.47	-207	3	SLV	0.58	-207	3	SLV	0.48
-206	3	SLV	0.52	-206	3	SLV	0.39	-205	3	SLV	0.50	-205	3	SLV	0.38
-204	3	SLV	0.43	-204	3	SLV	0.35	-203	3	SLV	0.38	-203	3	SLV	0.32
-202	3	SLV	0.33	-202	3	SLV	0.30	-201	3	SLV	0.31	-201	3	SLV	0.30
-200	3	SLV	0.31	-200	3	SLV	0.30	-199	3	SLV	0.31	-199	3	SLV	0.30
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-194	3	SLV	0.35	-194	3	SLV	0.30	-193	3	SLV	0.36	-193	3	SLV	0.31
-192	3	SLV	0.35	-192	3	SLV	0.32	-191	3	SLV	0.35	-191	3	SLV	0.34
-190	3	SLV	0.36	-190	3	SLV	0.36	-189	3	SLV	0.41	-189	3	SLV	0.39
-188	3	SLV	0.48	-188	3	SLV	0.42	-187	3	SLV	0.56	-187	3	SLV	0.47
-186	3	SLV	0.58	-186	3	SLV	0.48	-185	3	SLV	0.51	-185	3	SLV	0.38
-184	3	SLV	0.49	-184	3	SLV	0.37	-183	3	SLV	0.43	-183	3	SLV	0.34
-182	3	SLV	0.37	-182	3	SLV	0.31	-181	3	SLV	0.33	-181	3	SLV	0.30
-180	3	SLV	0.31	-180	3	SLV	0.29	-179	3	SLV	0.31	-179	3	SLV	0.29
-178	3	SLV	0.31	-178	3	SLV	0.30	-177	3	SLV	0.32	-177	3	SLV	0.30
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-174	3	SLV	0.36	-174	3	SLV	0.29	-173	3	SLV	0.37	-173	3	SLV	0.30
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-168	3	SLV	0.42	-168	3	SLV	0.40	-167	3	SLV	0.48	-167	3	SLV	0.43
-166	3	SLV	0.55	-166	3	SLV	0.47	-165	3	SLV	0.57	-165	3	SLV	0.47
-164	3	SLV	0.50	-164	3	SLV	0.38	-163	3	SLV	0.49	-163	3	SLV	0.37
-162	3	SLV	0.43	-162	3	SLV	0.34	-161	3	SLV	0.37	-161	3	SLV	0.31

-160	3	SLV	0.33	-160	3	SLV	0.30	-159	3	SLV	0.32	-159	3	SLV	0.30
-158	3	SLV	0.32	-158	3	SLV	0.31	-157	3	SLV	0.33	-157	3	SLV	0.31
-156	3	SLV	0.34	-156	3	SLV	0.31	-155	3	SLV	0.35	-155	3	SLV	0.31
-154	3	SLV	0.36	-154	3	SLV	0.30	-153	3	SLV	0.39	-153	3	SLV	0.31
-152	3	SLV	0.41	-152	3	SLV	0.32	-151	3	SLV	0.43	-151	3	SLV	0.34
-150	3	SLV	0.43	-150	3	SLV	0.36	-149	3	SLV	0.42	-149	3	SLV	0.38
-148	3	SLV	0.41	-148	3	SLV	0.41	-147	3	SLV	0.44	-147	3	SLV	0.43
-146	3	SLV	0.49	-146	3	SLV	0.45	-145	3	SLV	0.55	-145	3	SLV	0.47
-144	3	SLV	0.56	-144	3	SLV	0.47	-143	3	SLV	0.50	-143	3	SLV	0.37
-142	3	SLV	0.48	-142	3	SLV	0.36	-141	3	SLV	0.42	-141	3	SLV	0.33
-140	3	SLV	0.37	-140	3	SLV	0.31	-139	3	SLV	0.34	-139	3	SLV	0.30
-138	3	SLV	0.33	-138	3	SLV	0.31	-137	3	SLV	0.35	-137	3	SLV	0.33
-136	3	SLV	0.36	-136	3	SLV	0.34	-135	3	SLV	0.37	-135	3	SLV	0.34
-134	3	SLV	0.37	-134	3	SLV	0.33	-133	3	SLV	0.38	-133	3	SLV	0.32
-132	3	SLV	0.42	-132	3	SLV	0.33	-131	3	SLV	0.47	-131	3	SLV	0.35
-130	3	SLV	0.50	-130	3	SLV	0.38	-129	3	SLV	0.49	-129	3	SLV	0.41
-128	3	SLV	0.47	-128	3	SLV	0.43	-127	3	SLV	0.45	-127	3	SLV	0.45
-126	3	SLV	0.47	-126	3	SLV	0.46	-125	3	SLV	0.50	-125	3	SLV	0.47
-124	3	SLV	0.55	-124	3	SLV	0.47	-123	3	SLV	0.55	-123	3	SLV	0.47
-122	3	SLV	0.49	-122	3	SLV	0.36	-121	3	SLV	0.42	-121	3	SLV	0.33
-120	3	SLV	0.37	-120	3	SLV	0.31	-119	3	SLV	0.34	-119	3	SLV	0.30
-118	3	SLV	0.34	-118	3	SLV	0.31	-117	3	SLV	0.36	-117	3	SLV	0.34
-116	3	SLV	0.38	-116	3	SLV	0.36	-115	3	SLV	0.38	-115	3	SLV	0.34
-114	3	SLV	0.39	-114	3	SLV	0.33	-113	3	SLV	0.43	-113	3	SLV	0.34
-112	3	SLV	0.50	-112	3	SLV	0.38	-111	3	SLV	0.54	-111	3	SLV	0.45
-110	3	SLV	0.52	-110	3	SLV	0.48	-109	3	SLV	0.50	-109	3	SLV	0.50
-108	3	SLV	0.50	-108	3	SLV	0.50	-107	3	SLV	0.52	-107	3	SLV	0.49
-106	3	SLV	0.55	-106	3	SLV	0.47	-105	3	SLV	0.49	-105	3	SLV	0.36
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-102	3	SLV	0.37	-102	3	SLV	0.31	-101	3	SLV	0.34	-101	3	SLV	0.30
-100	3	SLV	0.34	-100	3	SLV	0.31	-99	3	SLV	0.36	-99	3	SLV	0.34
-98	3	SLV	0.38	-98	3	SLV	0.37	-97	3	SLV	0.38	-97	3	SLV	0.36
-96	3	SLV	0.37	-96	3	SLV	0.34	-95	3	SLV	0.39	-95	3	SLV	0.33
-94	3	SLV	0.43	-94	3	SLV	0.34	-93	3	SLV	0.50	-93	3	SLV	0.38
-92	3	SLV	0.56	-92	3	SLV	0.43	-91	3	SLV	0.56	-91	3	SLV	0.46
-90	3	SLV	0.53	-90	3	SLV	0.49	-89	3	SLV	0.51	-89	3	SLV	0.51
-88	3	SLV	0.51	-88	3	SLV	0.51	-87	3	SLV	0.52	-87	3	SLV	0.49
-86	3	SLV	0.54	-86	3	SLV	0.47	-85	3	SLV	0.55	-85	3	SLV	0.47
-84	3	SLV	0.48	-84	3	SLV	0.35	-83	3	SLV	0.47	-83	3	SLV	0.35
-82	3	SLV	0.41	-82	3	SLV	0.32	-81	3	SLV	0.37	-81	3	SLV	0.31
-80	3	SLV	0.34	-80	3	SLV	0.30	-79	3	SLV	0.33	-79	3	SLV	0.31
-78	3	SLV	0.34	-78	3	SLV	0.33	-77	3	SLV	0.35	-77	3	SLV	0.35
-76	3	SLV	0.35	-76	3	SLV	0.35	-75	3	SLV	0.35	-75	3	SLV	0.34
-74	3	SLV	0.36	-74	3	SLV	0.34	-73	3	SLV	0.40	-73	3	SLV	0.36
-72	3	SLV	0.45	-72	3	SLV	0.39	-71	3	SLV	0.51	-71	3	SLV	0.43
-70	3	SLV	0.47	-70	3	SLV	0.34	-69	3	SLV	0.46	-69	3	SLV	0.34
-68	3	SLV	0.41	-68	3	SLV	0.32	-67	3	SLV	0.37	-67	3	SLV	0.31
-66	3	SLV	0.33	-66	3	SLV	0.31	-65	3	SLV	0.32	-65	3	SLV	0.31
-64	3	SLV	0.32	-64	3	SLV	0.32	-63	3	SLV	0.33	-63	3	SLV	0.32
-62	3	SLV	0.33	-62	3	SLV	0.32	-61	3	SLV	0.33	-61	3	SLV	0.33
-60	3	SLV	0.34	-60	3	SLV	0.34	-59	3	SLV	0.35	-59	3	SLV	0.36

-58	3	SLV	0.38	-58	3	SLV	0.39	-57	3	SLV	0.41	-57	3	SLV	0.42
-56	3	SLV	0.46	-56	3	SLV	0.33	-55	3	SLV	0.45	-55	3	SLV	0.33
-54	3	SLV	0.41	-54	3	SLV	0.32	-53	3	SLV	0.37	-53	3	SLV	0.32
-52	3	SLV	0.33	-52	3	SLV	0.32	-51	3	SLV	0.32	-51	3	SLV	0.32
-50	3	SLV	0.32	-50	3	SLV	0.31	-49	3	SLV	0.33	-49	3	SLV	0.31
-48	3	SLV	0.34	-48	3	SLV	0.31	-47	3	SLV	0.35	-47	3	SLV	0.30
-46	3	SLV	0.36	-46	3	SLV	0.30	-45	3	SLV	0.38	-45	3	SLV	0.31
-44	3	SLV	0.40	-44	3	SLV	0.32	-43	3	SLV	0.42	-43	3	SLV	0.34
-42	3	SLV	0.45	-42	3	SLV	0.32	-41	3	SLV	0.45	-41	3	SLV	0.32
-40	3	SLV	0.41	-40	3	SLV	0.33	-39	3	SLV	0.38	-39	3	SLV	0.33
-38	3	SLV	0.35	-38	3	SLV	0.34	-37	3	SLV	0.34	-37	3	SLV	0.34
-36	3	SLV	0.35	-36	3	SLV	0.33	-35	3	SLV	0.36	-35	3	SLV	0.31
-34	3	SLV	0.37	-34	3	SLV	0.30	-33	3	SLV	0.39	-33	3	SLV	0.29
-32	3	SLV	0.41	-32	3	SLV	0.28	-31	3	SLV	0.42	-31	3	SLV	0.27
-30	3	SLV	0.45	-30	3	SLV	0.26	-29	3	SLV	0.47	-29	3	SLV	0.26
-28	3	SLV	0.45	-28	3	SLV	0.31	-27	3	SLV	0.44	-27	3	SLV	0.31
-26	3	SLV	0.42	-26	3	SLV	0.33	-25	3	SLV	0.39	-25	3	SLV	0.35
-24	3	SLV	0.37	-24	3	SLV	0.37	-23	3	SLV	0.37	-23	3	SLV	0.37
-22	3	SLV	0.39	-22	3	SLV	0.35	-21	3	SLV	0.41	-21	3	SLV	0.32
-20	3	SLV	0.42	-20	3	SLV	0.31	-19	3	SLV	0.44	-19	3	SLV	0.29
-18	3	SLV	0.46	-18	3	SLV	0.26	-17	3	SLV	0.48	-17	3	SLV	0.24
-16	3	SLV	0.51	-16	3	SLV	0.22	-15	3	SLV	0.53	-15	3	SLV	0.19
-14	3	SLV	0.45	-14	3	SLV	0.31	-13	3	SLV	0.44	-13	3	SLV	0.31
-12	3	SLV	0.42	-12	3	SLV	0.33	-11	3	SLV	0.39	-11	3	SLV	0.36
-10	3	SLV	0.38	-10	3	SLV	0.37	-9	3	SLV	0.38	-9	3	SLV	0.37
-8	3	SLV	0.39	-8	3	SLV	0.35	-7	3	SLV	0.42	-7	3	SLV	0.33
-6	3	SLV	0.43	-6	3	SLV	0.31	-5	3	SLV	0.45	-5	3	SLV	0.29
-4	3	SLV	0.47	-4	3	SLV	0.26	-3	3	SLV	0.50	-3	3	SLV	0.23
-2	3	SLV	0.52	-2	3	SLV	0.21	-1	3	SLV	0.54	-1	3	SLV	0.18
1	3	SLV	0.54	1	3	SLV	0.47	2	3	SLV	0.55	2	3	SLV	0.42
3	3	SLV	0.39	3	3	SLV	0.37	4	3	SLV	0.48	4	3	SLV	0.36
5	3	SLV	0.58	5	3	SLV	0.47	6	3	SLV	0.39	6	3	SLV	0.38
7	3	SLV	0.38	7	3	SLV	0.38	8	3	SLV	0.51	8	3	SLV	0.41
9	3	SLV	0.61	9	3	SLV	0.47	10	3	SLV	0.38	10	3	SLV	0.38
11	3	SLV	0.38	11	3	SLV	0.38	12	3	SLV	0.53	12	3	SLV	0.47
13	3	SLV	0.65	13	3	SLV	0.47	14	3	SLV	0.38	14	3	SLV	0.37
15	3	SLV	0.38	15	3	SLV	0.37	16	3	SLV	0.55	16	3	SLV	0.52
17	3	SLV	0.67	17	3	SLV	0.47	18	3	SLV	0.37	18	3	SLV	0.37
19	3	SLV	0.38	19	3	SLV	0.38	20	3	SLV	0.52	20	3	SLV	0.44
21	3	SLV	0.71	21	3	SLV	0.47	22	3	SLV	0.40	22	3	SLV	0.38
23	3	SLV	0.76	23	3	SLV	0.47	24	3	SLV	0.61	24	3	SLV	0.52
-900	5	SLV	0.63	-900	5	SLV	0.36	-899	5	SLV	0.63	-899	5	SLV	0.37
-898	5	SLV	0.63	-898	5	SLV	0.38	-897	5	SLV	0.62	-897	5	SLV	0.39
-896	5	SLV	0.62	-896	5	SLV	0.41	-895	5	SLV	0.62	-895	5	SLV	0.43
-894	5	SLV	0.61	-894	5	SLV	0.44	-893	5	SLV	0.61	-893	5	SLV	0.46
-892	5	SLV	0.61	-892	5	SLV	0.47	-891	5	SLV	0.61	-891	5	SLV	0.48
-890	5	SLV	0.63	-890	5	SLV	0.48	-889	5	SLV	0.64	-889	5	SLV	0.49
-888	5	SLV	0.66	-888	5	SLV	0.49	-887	5	SLV	0.67	-887	5	SLV	0.49
-886	5	SLV	0.69	-886	5	SLV	0.50	-885	5	SLV	0.70	-885	5	SLV	0.50
-884	5	SLV	0.71	-884	5	SLV	0.49	-883	5	SLV	0.72	-883	5	SLV	0.49
-882	5	SLV	0.73	-882	5	SLV	0.49	-881	5	SLV	0.74	-881	5	SLV	0.49

-880	5	SLV	0.74	-880	5	SLV	0.49	-879	5	SLV	0.63	-879	5	SLV	0.36
-878	5	SLV	0.62	-878	5	SLV	0.37	-877	5	SLV	0.62	-877	5	SLV	0.38
-876	5	SLV	0.62	-876	5	SLV	0.39	-875	5	SLV	0.61	-875	5	SLV	0.41
-874	5	SLV	0.61	-874	5	SLV	0.42	-873	5	SLV	0.61	-873	5	SLV	0.44
-872	5	SLV	0.60	-872	5	SLV	0.46	-871	5	SLV	0.60	-871	5	SLV	0.47
-870	5	SLV	0.60	-870	5	SLV	0.48	-869	5	SLV	0.62	-869	5	SLV	0.48
-868	5	SLV	0.63	-868	5	SLV	0.48	-867	5	SLV	0.64	-867	5	SLV	0.48
-866	5	SLV	0.66	-866	5	SLV	0.48	-865	5	SLV	0.68	-865	5	SLV	0.48
-864	5	SLV	0.69	-864	5	SLV	0.48	-863	5	SLV	0.70	-863	5	SLV	0.49
-862	5	SLV	0.72	-862	5	SLV	0.49	-861	5	SLV	0.74	-861	5	SLV	0.49
-860	5	SLV	0.61	-860	5	SLV	0.37	-859	5	SLV	0.60	-859	5	SLV	0.37
-858	5	SLV	0.59	-858	5	SLV	0.38	-857	5	SLV	0.58	-857	5	SLV	0.39
-856	5	SLV	0.57	-856	5	SLV	0.40	-855	5	SLV	0.57	-855	5	SLV	0.42
-854	5	SLV	0.57	-854	5	SLV	0.44	-853	5	SLV	0.58	-853	5	SLV	0.46
-852	5	SLV	0.58	-852	5	SLV	0.47	-851	5	SLV	0.57	-851	5	SLV	0.47
-850	5	SLV	0.57	-850	5	SLV	0.46	-849	5	SLV	0.57	-849	5	SLV	0.45
-848	5	SLV	0.57	-848	5	SLV	0.44	-847	5	SLV	0.58	-847	5	SLV	0.44
-846	5	SLV	0.58	-846	5	SLV	0.44	-845	5	SLV	0.60	-845	5	SLV	0.44
-844	5	SLV	0.62	-844	5	SLV	0.44	-843	5	SLV	0.64	-843	5	SLV	0.45
-842	5	SLV	0.68	-842	5	SLV	0.47	-841	5	SLV	0.72	-841	5	SLV	0.49
-840	5	SLV	0.73	-840	5	SLV	0.49	-839	5	SLV	0.59	-839	5	SLV	0.37
-838	5	SLV	0.58	-838	5	SLV	0.37	-837	5	SLV	0.56	-837	5	SLV	0.38
-836	5	SLV	0.54	-836	5	SLV	0.39	-835	5	SLV	0.53	-835	5	SLV	0.40
-834	5	SLV	0.53	-834	5	SLV	0.42	-833	5	SLV	0.54	-833	5	SLV	0.45
-832	5	SLV	0.56	-832	5	SLV	0.47	-831	5	SLV	0.56	-831	5	SLV	0.48
-830	5	SLV	0.54	-830	5	SLV	0.47	-829	5	SLV	0.52	-829	5	SLV	0.45
-828	5	SLV	0.51	-828	5	SLV	0.43	-827	5	SLV	0.50	-827	5	SLV	0.41
-826	5	SLV	0.50	-826	5	SLV	0.40	-825	5	SLV	0.51	-825	5	SLV	0.40
-824	5	SLV	0.52	-824	5	SLV	0.40	-823	5	SLV	0.55	-823	5	SLV	0.41
-822	5	SLV	0.59	-822	5	SLV	0.43	-821	5	SLV	0.65	-821	5	SLV	0.46
-820	5	SLV	0.71	-820	5	SLV	0.49	-819	5	SLV	0.73	-819	5	SLV	0.50
-818	5	SLV	0.55	-818	5	SLV	0.39	-817	5	SLV	0.55	-817	5	SLV	0.39
-816	5	SLV	0.53	-816	5	SLV	0.39	-815	5	SLV	0.51	-815	5	SLV	0.40
-814	5	SLV	0.50	-814	5	SLV	0.41	-813	5	SLV	0.50	-813	5	SLV	0.43
-812	5	SLV	0.52	-812	5	SLV	0.46	-811	5	SLV	0.53	-811	5	SLV	0.48
-810	5	SLV	0.53	-810	5	SLV	0.49	-809	5	SLV	0.51	-809	5	SLV	0.47
-808	5	SLV	0.48	-808	5	SLV	0.44	-807	5	SLV	0.45	-807	5	SLV	0.41
-806	5	SLV	0.44	-806	5	SLV	0.38	-805	5	SLV	0.43	-805	5	SLV	0.37
-804	5	SLV	0.43	-804	5	SLV	0.36	-803	5	SLV	0.44	-803	5	SLV	0.36
-802	5	SLV	0.48	-802	5	SLV	0.37	-801	5	SLV	0.53	-801	5	SLV	0.40
-800	5	SLV	0.61	-800	5	SLV	0.44	-799	5	SLV	0.70	-799	5	SLV	0.49
-798	5	SLV	0.72	-798	5	SLV	0.50	-797	5	SLV	0.54	-797	5	SLV	0.40
-796	5	SLV	0.54	-796	5	SLV	0.40	-795	5	SLV	0.52	-795	5	SLV	0.40
-794	5	SLV	0.51	-794	5	SLV	0.41	-793	5	SLV	0.50	-793	5	SLV	0.42
-792	5	SLV	0.50	-792	5	SLV	0.44	-791	5	SLV	0.51	-791	5	SLV	0.47
-790	5	SLV	0.52	-790	5	SLV	0.49	-789	5	SLV	0.51	-789	5	SLV	0.50
-788	5	SLV	0.48	-788	5	SLV	0.48	-787	5	SLV	0.45	-787	5	SLV	0.44
-786	5	SLV	0.42	-786	5	SLV	0.40	-785	5	SLV	0.40	-785	5	SLV	0.38
-784	5	SLV	0.39	-784	5	SLV	0.36	-783	5	SLV	0.39	-783	5	SLV	0.35
-782	5	SLV	0.40	-782	5	SLV	0.34	-781	5	SLV	0.44	-781	5	SLV	0.35
-780	5	SLV	0.50	-780	5	SLV	0.39	-779	5	SLV	0.59	-779	5	SLV	0.44

-778	5	SLV	0.69	-778	5	SLV	0.50	-777	5	SLV	0.71	-777	5	SLV	0.51
-776	5	SLV	0.54	-776	5	SLV	0.39	-775	5	SLV	0.54	-775	5	SLV	0.39
-774	5	SLV	0.53	-774	5	SLV	0.40	-773	5	SLV	0.52	-773	5	SLV	0.41
-772	5	SLV	0.52	-772	5	SLV	0.42	-771	5	SLV	0.52	-771	5	SLV	0.44
-770	5	SLV	0.52	-770	5	SLV	0.46	-769	5	SLV	0.52	-769	5	SLV	0.48
-768	5	SLV	0.51	-768	5	SLV	0.49	-767	5	SLV	0.48	-767	5	SLV	0.47
-766	5	SLV	0.44	-766	5	SLV	0.43	-765	5	SLV	0.41	-765	5	SLV	0.40
-764	5	SLV	0.40	-764	5	SLV	0.39	-763	5	SLV	0.39	-763	5	SLV	0.37
-762	5	SLV	0.38	-762	5	SLV	0.35	-761	5	SLV	0.39	-761	5	SLV	0.34
-760	5	SLV	0.42	-760	5	SLV	0.35	-759	5	SLV	0.49	-759	5	SLV	0.38
-758	5	SLV	0.58	-758	5	SLV	0.44	-757	5	SLV	0.69	-757	5	SLV	0.50
-756	5	SLV	0.71	-756	5	SLV	0.51	-755	5	SLV	0.54	-755	5	SLV	0.38
-754	5	SLV	0.54	-754	5	SLV	0.39	-753	5	SLV	0.54	-753	5	SLV	0.39
-752	5	SLV	0.53	-752	5	SLV	0.40	-751	5	SLV	0.53	-751	5	SLV	0.42
-750	5	SLV	0.53	-750	5	SLV	0.43	-749	5	SLV	0.53	-749	5	SLV	0.45
-748	5	SLV	0.53	-748	5	SLV	0.47	-747	5	SLV	0.52	-747	5	SLV	0.47
-746	5	SLV	0.48	-746	5	SLV	0.45	-745	5	SLV	0.43	-745	5	SLV	0.42
-744	5	SLV	0.40	-744	5	SLV	0.39	-743	5	SLV	0.39	-743	5	SLV	0.39
-742	5	SLV	0.39	-742	5	SLV	0.38	-741	5	SLV	0.38	-741	5	SLV	0.36
-740	5	SLV	0.38	-740	5	SLV	0.34	-739	5	SLV	0.41	-739	5	SLV	0.35
-738	5	SLV	0.48	-738	5	SLV	0.38	-737	5	SLV	0.57	-737	5	SLV	0.44
-736	5	SLV	0.68	-736	5	SLV	0.50	-735	5	SLV	0.70	-735	5	SLV	0.51
-734	5	SLV	0.54	-734	5	SLV	0.38	-733	5	SLV	0.54	-733	5	SLV	0.38
-732	5	SLV	0.54	-732	5	SLV	0.39	-731	5	SLV	0.53	-731	5	SLV	0.40
-730	5	SLV	0.53	-730	5	SLV	0.41	-729	5	SLV	0.53	-729	5	SLV	0.42
-728	5	SLV	0.53	-728	5	SLV	0.44	-727	5	SLV	0.52	-727	5	SLV	0.45
-726	5	SLV	0.51	-726	5	SLV	0.46	-725	5	SLV	0.47	-725	5	SLV	0.43
-724	5	SLV	0.43	-724	5	SLV	0.40	-723	5	SLV	0.40	-723	5	SLV	0.38
-722	5	SLV	0.39	-722	5	SLV	0.38	-721	5	SLV	0.38	-721	5	SLV	0.36
-720	5	SLV	0.37	-720	5	SLV	0.34	-719	5	SLV	0.40	-719	5	SLV	0.35
-718	5	SLV	0.47	-718	5	SLV	0.38	-717	5	SLV	0.57	-717	5	SLV	0.44
-716	5	SLV	0.70	-716	5	SLV	0.52	-715	5	SLV	0.52	-715	5	SLV	0.36
-714	5	SLV	0.52	-714	5	SLV	0.36	-713	5	SLV	0.51	-713	5	SLV	0.37
-712	5	SLV	0.50	-712	5	SLV	0.37	-711	5	SLV	0.50	-711	5	SLV	0.38
-710	5	SLV	0.50	-710	5	SLV	0.39	-709	5	SLV	0.50	-709	5	SLV	0.40
-708	5	SLV	0.49	-708	5	SLV	0.41	-707	5	SLV	0.47	-707	5	SLV	0.41
-706	5	SLV	0.44	-706	5	SLV	0.39	-705	5	SLV	0.40	-705	5	SLV	0.37
-704	5	SLV	0.38	-704	5	SLV	0.36	-703	5	SLV	0.37	-703	5	SLV	0.36
-702	5	SLV	0.37	-702	5	SLV	0.36	-701	5	SLV	0.36	-701	5	SLV	0.35
-700	5	SLV	0.36	-700	5	SLV	0.33	-699	5	SLV	0.39	-699	5	SLV	0.34
-698	5	SLV	0.46	-698	5	SLV	0.38	-697	5	SLV	0.56	-697	5	SLV	0.44
-696	5	SLV	0.67	-696	5	SLV	0.50	-695	5	SLV	0.69	-695	5	SLV	0.52
-694	5	SLV	0.48	-694	5	SLV	0.36	-693	5	SLV	0.48	-693	5	SLV	0.36
-692	5	SLV	0.47	-692	5	SLV	0.35	-691	5	SLV	0.46	-691	5	SLV	0.35
-690	5	SLV	0.45	-690	5	SLV	0.35	-689	5	SLV	0.45	-689	5	SLV	0.36
-688	5	SLV	0.44	-688	5	SLV	0.37	-687	5	SLV	0.43	-687	5	SLV	0.37
-686	5	SLV	0.42	-686	5	SLV	0.37	-685	5	SLV	0.40	-685	5	SLV	0.36
-684	5	SLV	0.38	-684	5	SLV	0.34	-683	5	SLV	0.36	-683	5	SLV	0.34
-682	5	SLV	0.35	-682	5	SLV	0.33	-681	5	SLV	0.34	-681	5	SLV	0.33
-680	5	SLV	0.33	-680	5	SLV	0.33	-679	5	SLV	0.35	-679	5	SLV	0.32
-678	5	SLV	0.38	-678	5	SLV	0.34	-677	5	SLV	0.45	-677	5	SLV	0.37

-676	5	SLV	0.55	-676	5	SLV	0.43	-675	5	SLV	0.66	-675	5	SLV	0.51
-674	5	SLV	0.68	-674	5	SLV	0.52	-673	5	SLV	0.46	-673	5	SLV	0.37
-672	5	SLV	0.46	-672	5	SLV	0.37	-671	5	SLV	0.43	-671	5	SLV	0.35
-670	5	SLV	0.42	-670	5	SLV	0.34	-669	5	SLV	0.41	-669	5	SLV	0.33
-668	5	SLV	0.40	-668	5	SLV	0.34	-667	5	SLV	0.40	-667	5	SLV	0.34
-666	5	SLV	0.39	-666	5	SLV	0.34	-665	5	SLV	0.39	-665	5	SLV	0.34
-664	5	SLV	0.37	-664	5	SLV	0.33	-663	5	SLV	0.35	-663	5	SLV	0.33
-662	5	SLV	0.34	-662	5	SLV	0.32	-661	5	SLV	0.33	-661	5	SLV	0.32
-660	5	SLV	0.33	-660	5	SLV	0.32	-659	5	SLV	0.32	-659	5	SLV	0.32
-658	5	SLV	0.34	-658	5	SLV	0.32	-657	5	SLV	0.38	-657	5	SLV	0.34
-656	5	SLV	0.44	-656	5	SLV	0.37	-655	5	SLV	0.54	-655	5	SLV	0.44
-654	5	SLV	0.65	-654	5	SLV	0.51	-653	5	SLV	0.67	-653	5	SLV	0.52
-652	5	SLV	0.46	-652	5	SLV	0.40	-651	5	SLV	0.45	-651	5	SLV	0.40
-650	5	SLV	0.42	-650	5	SLV	0.37	-649	5	SLV	0.39	-649	5	SLV	0.34
-648	5	SLV	0.38	-648	5	SLV	0.33	-647	5	SLV	0.37	-647	5	SLV	0.33
-646	5	SLV	0.38	-646	5	SLV	0.33	-645	5	SLV	0.37	-645	5	SLV	0.34
-644	5	SLV	0.37	-644	5	SLV	0.34	-643	5	SLV	0.36	-643	5	SLV	0.33
-642	5	SLV	0.34	-642	5	SLV	0.32	-641	5	SLV	0.34	-641	5	SLV	0.32
-640	5	SLV	0.33	-640	5	SLV	0.32	-639	5	SLV	0.33	-639	5	SLV	0.32
-638	5	SLV	0.33	-638	5	SLV	0.32	-637	5	SLV	0.34	-637	5	SLV	0.32
-636	5	SLV	0.38	-636	5	SLV	0.34	-635	5	SLV	0.44	-635	5	SLV	0.38
-634	5	SLV	0.54	-634	5	SLV	0.44	-633	5	SLV	0.64	-633	5	SLV	0.51
-632	5	SLV	0.67	-632	5	SLV	0.53	-631	5	SLV	0.50	-631	5	SLV	0.44
-630	5	SLV	0.48	-630	5	SLV	0.43	-629	5	SLV	0.42	-629	5	SLV	0.39
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-624	5	SLV	0.38	-624	5	SLV	0.35	-623	5	SLV	0.37	-623	5	SLV	0.35
-622	5	SLV	0.35	-622	5	SLV	0.33	-621	5	SLV	0.34	-621	5	SLV	0.32
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-618	5	SLV	0.35	-618	5	SLV	0.35	-617	5	SLV	0.35	-617	5	SLV	0.34
-616	5	SLV	0.35	-616	5	SLV	0.33	-615	5	SLV	0.38	-615	5	SLV	0.34
-614	5	SLV	0.44	-614	5	SLV	0.38	-613	5	SLV	0.53	-613	5	SLV	0.44
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-604	5	SLV	0.37	-604	5	SLV	0.36	-603	5	SLV	0.35	-603	5	SLV	0.34
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-596	5	SLV	0.44	-596	5	SLV	0.38	-595	5	SLV	0.53	-595	5	SLV	0.45
-594	5	SLV	0.65	-594	5	SLV	0.53	-593	5	SLV	0.53	-593	5	SLV	0.44
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-580	5	SLV	0.36	-580	5	SLV	0.35	-579	5	SLV	0.35	-579	5	SLV	0.35
-578	5	SLV	0.35	-578	5	SLV	0.34	-577	5	SLV	0.38	-577	5	SLV	0.35
-576	5	SLV	0.44	-576	5	SLV	0.39	-575	5	SLV	0.52	-575	5	SLV	0.45

-574	5	SLV	0.62	-574	5	SLV	0.52	-573	5	SLV	0.64	-573	5	SLV	0.53
-572	5	SLV	0.54	-572	5	SLV	0.41	-571	5	SLV	0.52	-571	5	SLV	0.40
-570	5	SLV	0.46	-570	5	SLV	0.36	-569	5	SLV	0.40	-569	5	SLV	0.33
-568	5	SLV	0.36	-568	5	SLV	0.32	-567	5	SLV	0.34	-567	5	SLV	0.32
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-558	5	SLV	0.34	-558	5	SLV	0.34	-557	5	SLV	0.35	-557	5	SLV	0.34
-556	5	SLV	0.38	-556	5	SLV	0.35	-555	5	SLV	0.44	-555	5	SLV	0.39
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-552	5	SLV	0.64	-552	5	SLV	0.53	-551	5	SLV	0.58	-551	5	SLV	0.40
-550	5	SLV	0.56	-550	5	SLV	0.39	-549	5	SLV	0.48	-549	5	SLV	0.36
-548	5	SLV	0.42	-548	5	SLV	0.33	-547	5	SLV	0.37	-547	5	SLV	0.31
-546	5	SLV	0.35	-546	5	SLV	0.32	-545	5	SLV	0.34	-545	5	SLV	0.33
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-538	5	SLV	0.34	-538	5	SLV	0.34	-537	5	SLV	0.34	-537	5	SLV	0.34
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-534	5	SLV	0.43	-534	5	SLV	0.39	-533	5	SLV	0.51	-533	5	SLV	0.45
-532	5	SLV	0.61	-532	5	SLV	0.52	-531	5	SLV	0.63	-531	5	SLV	0.54
-530	5	SLV	0.64	-530	5	SLV	0.41	-529	5	SLV	0.61	-529	5	SLV	0.40
-528	5	SLV	0.52	-528	5	SLV	0.36	-527	5	SLV	0.44	-527	5	SLV	0.33
-526	5	SLV	0.38	-526	5	SLV	0.31	-525	5	SLV	0.36	-525	5	SLV	0.32
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-520	5	SLV	0.34	-520	5	SLV	0.33	-519	5	SLV	0.34	-519	5	SLV	0.34
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-516	5	SLV	0.36	-516	5	SLV	0.35	-515	5	SLV	0.36	-515	5	SLV	0.34
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-510	5	SLV	0.62	-510	5	SLV	0.54	-509	5	SLV	0.68	-509	5	SLV	0.43
-508	5	SLV	0.55	-508	5	SLV	0.37	-507	5	SLV	0.46	-507	5	SLV	0.34
-506	5	SLV	0.39	-506	5	SLV	0.32	-505	5	SLV	0.36	-505	5	SLV	0.32
-504	5	SLV	0.37	-504	5	SLV	0.35	-503	5	SLV	0.37	-503	5	SLV	0.36
-502	5	SLV	0.35	-502	5	SLV	0.34	-501	5	SLV	0.33	-501	5	SLV	0.33
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-498	5	SLV	0.36	-498	5	SLV	0.36	-497	5	SLV	0.35	-497	5	SLV	0.34
-496	5	SLV	0.37	-496	5	SLV	0.35	-495	5	SLV	0.43	-495	5	SLV	0.39
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-490	5	SLV	0.55	-490	5	SLV	0.38	-489	5	SLV	0.46	-489	5	SLV	0.34
-488	5	SLV	0.39	-488	5	SLV	0.32	-487	5	SLV	0.36	-487	5	SLV	0.32
-486	5	SLV	0.35	-486	5	SLV	0.33	-485	5	SLV	0.35	-485	5	SLV	0.34
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-478	5	SLV	0.34	-478	5	SLV	0.34	-477	5	SLV	0.34	-477	5	SLV	0.34
-476	5	SLV	0.37	-476	5	SLV	0.35	-475	5	SLV	0.42	-475	5	SLV	0.39
-474	5	SLV	0.50	-474	5	SLV	0.45	-473	5	SLV	0.59	-473	5	SLV	0.52

-472	5	SLV	0.61	-472	5	SLV	0.54	-471	5	SLV	0.65	-471	5	SLV	0.43
-470	5	SLV	0.63	-470	5	SLV	0.42	-469	5	SLV	0.54	-469	5	SLV	0.38
-468	5	SLV	0.46	-468	5	SLV	0.34	-467	5	SLV	0.39	-467	5	SLV	0.31
-466	5	SLV	0.35	-466	5	SLV	0.31	-465	5	SLV	0.33	-465	5	SLV	0.31
-464	5	SLV	0.32	-464	5	SLV	0.32	-463	5	SLV	0.32	-463	5	SLV	0.32
-462	5	SLV	0.31	-462	5	SLV	0.31	-461	5	SLV	0.31	-461	5	SLV	0.31
-460	5	SLV	0.31	-460	5	SLV	0.31	-459	5	SLV	0.32	-459	5	SLV	0.31
-458	5	SLV	0.32	-458	5	SLV	0.32	-457	5	SLV	0.32	-457	5	SLV	0.32
-456	5	SLV	0.33	-456	5	SLV	0.32	-455	5	SLV	0.36	-455	5	SLV	0.34
-454	5	SLV	0.41	-454	5	SLV	0.38	-453	5	SLV	0.49	-453	5	SLV	0.44
-452	5	SLV	0.59	-452	5	SLV	0.52	-451	5	SLV	0.61	-451	5	SLV	0.53
-450	5	SLV	0.64	-450	5	SLV	0.43	-449	5	SLV	0.62	-449	5	SLV	0.42
-448	5	SLV	0.53	-448	5	SLV	0.38	-447	5	SLV	0.45	-447	5	SLV	0.34
-446	5	SLV	0.38	-446	5	SLV	0.31	-445	5	SLV	0.34	-445	5	SLV	0.30
-444	5	SLV	0.32	-444	5	SLV	0.31	-443	5	SLV	0.31	-443	5	SLV	0.31
-442	5	SLV	0.31	-442	5	SLV	0.31	-441	5	SLV	0.31	-441	5	SLV	0.31
-440	5	SLV	0.31	-440	5	SLV	0.30	-439	5	SLV	0.31	-439	5	SLV	0.30
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-436	5	SLV	0.31	-436	5	SLV	0.31	-435	5	SLV	0.33	-435	5	SLV	0.32
-434	5	SLV	0.36	-434	5	SLV	0.34	-433	5	SLV	0.41	-433	5	SLV	0.38
-432	5	SLV	0.49	-432	5	SLV	0.44	-431	5	SLV	0.58	-431	5	SLV	0.51
-430	5	SLV	0.61	-430	5	SLV	0.53	-429	5	SLV	0.62	-429	5	SLV	0.43
-428	5	SLV	0.60	-428	5	SLV	0.42	-427	5	SLV	0.52	-427	5	SLV	0.38
-426	5	SLV	0.44	-426	5	SLV	0.34	-425	5	SLV	0.38	-425	5	SLV	0.32
-424	5	SLV	0.35	-424	5	SLV	0.31	-423	5	SLV	0.33	-423	5	SLV	0.32
-422	5	SLV	0.33	-422	5	SLV	0.32	-421	5	SLV	0.32	-421	5	SLV	0.32
-420	5	SLV	0.32	-420	5	SLV	0.32	-419	5	SLV	0.32	-419	5	SLV	0.31
-418	5	SLV	0.32	-418	5	SLV	0.31	-417	5	SLV	0.32	-417	5	SLV	0.32
-416	5	SLV	0.32	-416	5	SLV	0.32	-415	5	SLV	0.33	-415	5	SLV	0.32
-414	5	SLV	0.34	-414	5	SLV	0.33	-413	5	SLV	0.36	-413	5	SLV	0.34
-412	5	SLV	0.42	-412	5	SLV	0.38	-411	5	SLV	0.49	-411	5	SLV	0.44
-410	5	SLV	0.58	-410	5	SLV	0.51	-409	5	SLV	0.60	-409	5	SLV	0.52
-408	5	SLV	0.61	-408	5	SLV	0.44	-407	5	SLV	0.59	-407	5	SLV	0.43
-406	5	SLV	0.51	-406	5	SLV	0.38	-405	5	SLV	0.44	-405	5	SLV	0.35
-404	5	SLV	0.38	-404	5	SLV	0.33	-403	5	SLV	0.36	-403	5	SLV	0.33
-402	5	SLV	0.36	-402	5	SLV	0.34	-401	5	SLV	0.36	-401	5	SLV	0.35
-400	5	SLV	0.35	-400	5	SLV	0.35	-399	5	SLV	0.34	-399	5	SLV	0.34
-398	5	SLV	0.33	-398	5	SLV	0.33	-397	5	SLV	0.33	-397	5	SLV	0.33
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-394	5	SLV	0.35	-394	5	SLV	0.35	-393	5	SLV	0.35	-393	5	SLV	0.34
-392	5	SLV	0.37	-392	5	SLV	0.35	-391	5	SLV	0.42	-391	5	SLV	0.38
-390	5	SLV	0.50	-390	5	SLV	0.44	-389	5	SLV	0.58	-389	5	SLV	0.50
-388	5	SLV	0.60	-388	5	SLV	0.52	-387	5	SLV	0.59	-387	5	SLV	0.43
-386	5	SLV	0.50	-386	5	SLV	0.39	-385	5	SLV	0.43	-385	5	SLV	0.35
-384	5	SLV	0.38	-384	5	SLV	0.33	-383	5	SLV	0.36	-383	5	SLV	0.33
-382	5	SLV	0.37	-382	5	SLV	0.36	-381	5	SLV	0.37	-381	5	SLV	0.37
-380	5	SLV	0.35	-380	5	SLV	0.35	-379	5	SLV	0.34	-379	5	SLV	0.33
-378	5	SLV	0.34	-378	5	SLV	0.34	-377	5	SLV	0.36	-377	5	SLV	0.36
-376	5	SLV	0.37	-376	5	SLV	0.36	-375	5	SLV	0.36	-375	5	SLV	0.34
-374	5	SLV	0.37	-374	5	SLV	0.35	-373	5	SLV	0.42	-373	5	SLV	0.38
-372	5	SLV	0.50	-372	5	SLV	0.44	-371	5	SLV	0.60	-371	5	SLV	0.51

-370	5	SLV	0.58	-370	5	SLV	0.44	-369	5	SLV	0.56	-369	5	SLV	0.43
-368	5	SLV	0.49	-368	5	SLV	0.39	-367	5	SLV	0.42	-367	5	SLV	0.35
-366	5	SLV	0.37	-366	5	SLV	0.33	-365	5	SLV	0.35	-365	5	SLV	0.33
-364	5	SLV	0.35	-364	5	SLV	0.35	-363	5	SLV	0.36	-363	5	SLV	0.36
-362	5	SLV	0.36	-362	5	SLV	0.35	-361	5	SLV	0.34	-361	5	SLV	0.34
-360	5	SLV	0.33	-360	5	SLV	0.33	-359	5	SLV	0.34	-359	5	SLV	0.33
-358	5	SLV	0.35	-358	5	SLV	0.35	-357	5	SLV	0.36	-357	5	SLV	0.36
-356	5	SLV	0.36	-356	5	SLV	0.35	-355	5	SLV	0.35	-355	5	SLV	0.34
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-352	5	SLV	0.50	-352	5	SLV	0.43	-351	5	SLV	0.58	-351	5	SLV	0.49
-350	5	SLV	0.60	-350	5	SLV	0.50	-349	5	SLV	0.57	-349	5	SLV	0.44
-348	5	SLV	0.55	-348	5	SLV	0.43	-347	5	SLV	0.48	-347	5	SLV	0.38
-346	5	SLV	0.41	-346	5	SLV	0.35	-345	5	SLV	0.36	-345	5	SLV	0.32
-344	5	SLV	0.34	-344	5	SLV	0.32	-343	5	SLV	0.33	-343	5	SLV	0.32
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-340	5	SLV	0.33	-340	5	SLV	0.32	-339	5	SLV	0.32	-339	5	SLV	0.32
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-336	5	SLV	0.33	-336	5	SLV	0.33	-335	5	SLV	0.33	-335	5	SLV	0.33
-334	5	SLV	0.34	-334	5	SLV	0.33	-333	5	SLV	0.37	-333	5	SLV	0.34
-332	5	SLV	0.42	-332	5	SLV	0.37	-331	5	SLV	0.50	-331	5	SLV	0.42
-330	5	SLV	0.58	-330	5	SLV	0.48	-329	5	SLV	0.60	-329	5	SLV	0.50
-328	5	SLV	0.55	-328	5	SLV	0.44	-327	5	SLV	0.53	-327	5	SLV	0.43
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-324	5	SLV	0.35	-324	5	SLV	0.32	-323	5	SLV	0.33	-323	5	SLV	0.31
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-320	5	SLV	0.32	-320	5	SLV	0.32	-319	5	SLV	0.32	-319	5	SLV	0.32
-318	5	SLV	0.32	-318	5	SLV	0.31	-317	5	SLV	0.32	-317	5	SLV	0.31
-316	5	SLV	0.32	-316	5	SLV	0.32	-315	5	SLV	0.32	-315	5	SLV	0.32
-314	5	SLV	0.32	-314	5	SLV	0.32	-313	5	SLV	0.34	-313	5	SLV	0.32
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-310	5	SLV	0.49	-310	5	SLV	0.42	-309	5	SLV	0.58	-309	5	SLV	0.48
-308	5	SLV	0.60	-308	5	SLV	0.49	-307	5	SLV	0.54	-307	5	SLV	0.44
-306	5	SLV	0.52	-306	5	SLV	0.43	-305	5	SLV	0.46	-305	5	SLV	0.38
-304	5	SLV	0.40	-304	5	SLV	0.35	-303	5	SLV	0.35	-303	5	SLV	0.32
-302	5	SLV	0.33	-302	5	SLV	0.32	-301	5	SLV	0.33	-301	5	SLV	0.32
-300	5	SLV	0.33	-300	5	SLV	0.33	-299	5	SLV	0.33	-299	5	SLV	0.33
-298	5	SLV	0.33	-298	5	SLV	0.32	-297	5	SLV	0.32	-297	5	SLV	0.32
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-292	5	SLV	0.34	-292	5	SLV	0.33	-291	5	SLV	0.37	-291	5	SLV	0.34
-290	5	SLV	0.42	-290	5	SLV	0.37	-289	5	SLV	0.50	-289	5	SLV	0.41
-288	5	SLV	0.58	-288	5	SLV	0.47	-287	5	SLV	0.60	-287	5	SLV	0.48
-286	5	SLV	0.53	-286	5	SLV	0.44	-285	5	SLV	0.51	-285	5	SLV	0.43
-284	5	SLV	0.45	-284	5	SLV	0.39	-283	5	SLV	0.39	-283	5	SLV	0.35
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-272	5	SLV	0.36	-272	5	SLV	0.35	-271	5	SLV	0.35	-271	5	SLV	0.34
-270	5	SLV	0.37	-270	5	SLV	0.34	-269	5	SLV	0.43	-269	5	SLV	0.37

-268	5	SLV	0.50	-268	5	SLV	0.41	-267	5	SLV	0.59	-267	5	SLV	0.46
-266	5	SLV	0.61	-266	5	SLV	0.48	-265	5	SLV	0.51	-265	5	SLV	0.43
-264	5	SLV	0.44	-264	5	SLV	0.39	-263	5	SLV	0.39	-263	5	SLV	0.35
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-256	5	SLV	0.35	-256	5	SLV	0.34	-255	5	SLV	0.37	-255	5	SLV	0.36
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-230	5	SLV	0.50	-230	5	SLV	0.40	-229	5	SLV	0.59	-229	5	SLV	0.45
-228	5	SLV	0.61	-228	5	SLV	0.46	-227	5	SLV	0.49	-227	5	SLV	0.43
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-210	5	SLV	0.43	-210	5	SLV	0.36	-209	5	SLV	0.50	-209	5	SLV	0.40
-208	5	SLV	0.59	-208	5	SLV	0.44	-207	5	SLV	0.61	-207	5	SLV	0.45
-206	5	SLV	0.48	-206	5	SLV	0.43	-205	5	SLV	0.47	-205	5	SLV	0.42
-204	5	SLV	0.41	-204	5	SLV	0.37	-203	5	SLV	0.36	-203	5	SLV	0.34
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-198	5	SLV	0.31	-198	5	SLV	0.30	-197	5	SLV	0.31	-197	5	SLV	0.30
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-192	5	SLV	0.35	-192	5	SLV	0.32	-191	5	SLV	0.36	-191	5	SLV	0.33
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-188	5	SLV	0.51	-188	5	SLV	0.40	-187	5	SLV	0.59	-187	5	SLV	0.44
-186	5	SLV	0.61	-186	5	SLV	0.45	-185	5	SLV	0.48	-185	5	SLV	0.42
-184	5	SLV	0.46	-184	5	SLV	0.41	-183	5	SLV	0.41	-183	5	SLV	0.37
-182	5	SLV	0.36	-182	5	SLV	0.33	-181	5	SLV	0.32	-181	5	SLV	0.31
-180	5	SLV	0.31	-180	5	SLV	0.30	-179	5	SLV	0.31	-179	5	SLV	0.30
-178	5	SLV	0.31	-178	5	SLV	0.30	-177	5	SLV	0.31	-177	5	SLV	0.30
-176	5	SLV	0.32	-176	5	SLV	0.30	-175	5	SLV	0.33	-175	5	SLV	0.31
-174	5	SLV	0.34	-174	5	SLV	0.31	-173	5	SLV	0.36	-173	5	SLV	0.32
-172	5	SLV	0.37	-172	5	SLV	0.32	-171	5	SLV	0.38	-171	5	SLV	0.33
-170	5	SLV	0.39	-170	5	SLV	0.34	-169	5	SLV	0.41	-169	5	SLV	0.35
-168	5	SLV	0.45	-168	5	SLV	0.37	-167	5	SLV	0.52	-167	5	SLV	0.40

-166	5	SLV	0.59	-166	5	SLV	0.43	-165	5	SLV	0.61	-165	5	SLV	0.44
-164	5	SLV	0.47	-164	5	SLV	0.41	-163	5	SLV	0.46	-163	5	SLV	0.40
-162	5	SLV	0.41	-162	5	SLV	0.36	-161	5	SLV	0.36	-161	5	SLV	0.32
-160	5	SLV	0.33	-160	5	SLV	0.30	-159	5	SLV	0.31	-159	5	SLV	0.30
-158	5	SLV	0.32	-158	5	SLV	0.31	-157	5	SLV	0.33	-157	5	SLV	0.32
-156	5	SLV	0.33	-156	5	SLV	0.32	-155	5	SLV	0.34	-155	5	SLV	0.32
-154	5	SLV	0.35	-154	5	SLV	0.32	-153	5	SLV	0.37	-153	5	SLV	0.32
-152	5	SLV	0.40	-152	5	SLV	0.34	-151	5	SLV	0.42	-151	5	SLV	0.35
-150	5	SLV	0.43	-150	5	SLV	0.36	-149	5	SLV	0.44	-149	5	SLV	0.36
-148	5	SLV	0.45	-148	5	SLV	0.37	-147	5	SLV	0.48	-147	5	SLV	0.38
-146	5	SLV	0.53	-146	5	SLV	0.40	-145	5	SLV	0.59	-145	5	SLV	0.42
-144	5	SLV	0.60	-144	5	SLV	0.43	-143	5	SLV	0.47	-143	5	SLV	0.39
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-140	5	SLV	0.36	-140	5	SLV	0.32	-139	5	SLV	0.33	-139	5	SLV	0.31
-138	5	SLV	0.33	-138	5	SLV	0.31	-137	5	SLV	0.34	-137	5	SLV	0.33
-136	5	SLV	0.36	-136	5	SLV	0.35	-135	5	SLV	0.36	-135	5	SLV	0.35
-134	5	SLV	0.36	-134	5	SLV	0.34	-133	5	SLV	0.37	-133	5	SLV	0.33
-132	5	SLV	0.40	-132	5	SLV	0.34	-131	5	SLV	0.45	-131	5	SLV	0.37
-130	5	SLV	0.49	-130	5	SLV	0.39	-129	5	SLV	0.50	-129	5	SLV	0.40
-128	5	SLV	0.50	-128	5	SLV	0.40	-127	5	SLV	0.50	-127	5	SLV	0.40
-126	5	SLV	0.52	-126	5	SLV	0.41	-125	5	SLV	0.56	-125	5	SLV	0.41
-124	5	SLV	0.59	-124	5	SLV	0.42	-123	5	SLV	0.60	-123	5	SLV	0.42
-122	5	SLV	0.47	-122	5	SLV	0.38	-121	5	SLV	0.41	-121	5	SLV	0.34
-120	5	SLV	0.37	-120	5	SLV	0.31	-119	5	SLV	0.34	-119	5	SLV	0.30
-118	5	SLV	0.34	-118	5	SLV	0.31	-117	5	SLV	0.36	-117	5	SLV	0.34
-116	5	SLV	0.38	-116	5	SLV	0.36	-115	5	SLV	0.37	-115	5	SLV	0.34
-114	5	SLV	0.38	-114	5	SLV	0.34	-113	5	SLV	0.42	-113	5	SLV	0.35
-112	5	SLV	0.49	-112	5	SLV	0.39	-111	5	SLV	0.56	-111	5	SLV	0.44
-110	5	SLV	0.56	-110	5	SLV	0.44	-109	5	SLV	0.56	-109	5	SLV	0.44
-108	5	SLV	0.57	-108	5	SLV	0.43	-107	5	SLV	0.58	-107	5	SLV	0.42
-106	5	SLV	0.60	-106	5	SLV	0.41	-105	5	SLV	0.47	-105	5	SLV	0.38
-104	5	SLV	0.46	-104	5	SLV	0.37	-103	5	SLV	0.41	-103	5	SLV	0.34
-102	5	SLV	0.37	-102	5	SLV	0.31	-101	5	SLV	0.34	-101	5	SLV	0.30
-100	5	SLV	0.34	-100	5	SLV	0.31	-99	5	SLV	0.36	-99	5	SLV	0.34
-98	5	SLV	0.38	-98	5	SLV	0.36	-97	5	SLV	0.38	-97	5	SLV	0.36
-96	5	SLV	0.37	-96	5	SLV	0.34	-95	5	SLV	0.38	-95	5	SLV	0.34
-94	5	SLV	0.42	-94	5	SLV	0.35	-93	5	SLV	0.49	-93	5	SLV	0.39
-92	5	SLV	0.55	-92	5	SLV	0.43	-91	5	SLV	0.57	-91	5	SLV	0.45
-90	5	SLV	0.57	-90	5	SLV	0.45	-89	5	SLV	0.57	-89	5	SLV	0.45
-88	5	SLV	0.58	-88	5	SLV	0.44	-87	5	SLV	0.59	-87	5	SLV	0.43
-86	5	SLV	0.60	-86	5	SLV	0.41	-85	5	SLV	0.60	-85	5	SLV	0.41
-84	5	SLV	0.47	-84	5	SLV	0.36	-83	5	SLV	0.46	-83	5	SLV	0.35
-82	5	SLV	0.41	-82	5	SLV	0.33	-81	5	SLV	0.37	-81	5	SLV	0.30
-80	5	SLV	0.34	-80	5	SLV	0.29	-79	5	SLV	0.34	-79	5	SLV	0.30
-78	5	SLV	0.35	-78	5	SLV	0.32	-77	5	SLV	0.36	-77	5	SLV	0.33
-76	5	SLV	0.37	-76	5	SLV	0.33	-75	5	SLV	0.37	-75	5	SLV	0.33
-74	5	SLV	0.38	-74	5	SLV	0.33	-73	5	SLV	0.41	-73	5	SLV	0.34
-72	5	SLV	0.47	-72	5	SLV	0.37	-71	5	SLV	0.53	-71	5	SLV	0.41
-70	5	SLV	0.47	-70	5	SLV	0.34	-69	5	SLV	0.46	-69	5	SLV	0.34
-68	5	SLV	0.42	-68	5	SLV	0.31	-67	5	SLV	0.38	-67	5	SLV	0.30
-66	5	SLV	0.35	-66	5	SLV	0.29	-65	5	SLV	0.34	-65	5	SLV	0.29

-64	5	SLV	0.34	-64	5	SLV	0.29	-63	5	SLV	0.35	-63	5	SLV	0.30
-62	5	SLV	0.36	-62	5	SLV	0.30	-61	5	SLV	0.36	-61	5	SLV	0.30
-60	5	SLV	0.38	-60	5	SLV	0.30	-59	5	SLV	0.40	-59	5	SLV	0.32
-58	5	SLV	0.43	-58	5	SLV	0.34	-57	5	SLV	0.47	-57	5	SLV	0.36
-56	5	SLV	0.47	-56	5	SLV	0.33	-55	5	SLV	0.46	-55	5	SLV	0.32
-54	5	SLV	0.42	-54	5	SLV	0.30	-53	5	SLV	0.39	-53	5	SLV	0.29
-52	5	SLV	0.37	-52	5	SLV	0.28	-51	5	SLV	0.36	-51	5	SLV	0.28
-50	5	SLV	0.36	-50	5	SLV	0.27	-49	5	SLV	0.37	-49	5	SLV	0.27
-48	5	SLV	0.38	-48	5	SLV	0.27	-47	5	SLV	0.39	-47	5	SLV	0.27
-46	5	SLV	0.40	-46	5	SLV	0.27	-45	5	SLV	0.42	-45	5	SLV	0.27
-44	5	SLV	0.44	-44	5	SLV	0.28	-43	5	SLV	0.47	-43	5	SLV	0.29
-42	5	SLV	0.46	-42	5	SLV	0.31	-41	5	SLV	0.46	-41	5	SLV	0.31
-40	5	SLV	0.44	-40	5	SLV	0.30	-39	5	SLV	0.42	-39	5	SLV	0.29
-38	5	SLV	0.41	-38	5	SLV	0.28	-37	5	SLV	0.40	-37	5	SLV	0.28
-36	5	SLV	0.41	-36	5	SLV	0.27	-35	5	SLV	0.42	-35	5	SLV	0.26
-34	5	SLV	0.42	-34	5	SLV	0.25	-33	5	SLV	0.43	-33	5	SLV	0.25
-32	5	SLV	0.44	-32	5	SLV	0.24	-31	5	SLV	0.46	-31	5	SLV	0.23
-30	5	SLV	0.48	-30	5	SLV	0.23	-29	5	SLV	0.50	-29	5	SLV	0.23
-28	5	SLV	0.46	-28	5	SLV	0.29	-27	5	SLV	0.46	-27	5	SLV	0.29
-26	5	SLV	0.46	-26	5	SLV	0.29	-25	5	SLV	0.45	-25	5	SLV	0.29
-24	5	SLV	0.45	-24	5	SLV	0.29	-23	5	SLV	0.45	-23	5	SLV	0.28
-22	5	SLV	0.46	-22	5	SLV	0.27	-21	5	SLV	0.48	-21	5	SLV	0.26
-20	5	SLV	0.48	-20	5	SLV	0.25	-19	5	SLV	0.49	-19	5	SLV	0.23
-18	5	SLV	0.51	-18	5	SLV	0.22	-17	5	SLV	0.52	-17	5	SLV	0.20
-16	5	SLV	0.53	-16	5	SLV	0.19	-15	5	SLV	0.55	-15	5	SLV	0.18
-14	5	SLV	0.47	-14	5	SLV	0.29	-13	5	SLV	0.46	-13	5	SLV	0.29
-12	5	SLV	0.46	-12	5	SLV	0.29	-11	5	SLV	0.46	-11	5	SLV	0.29
-10	5	SLV	0.46	-10	5	SLV	0.29	-9	5	SLV	0.46	-9	5	SLV	0.28
-8	5	SLV	0.48	-8	5	SLV	0.27	-7	5	SLV	0.49	-7	5	SLV	0.26
-6	5	SLV	0.49	-6	5	SLV	0.25	-5	5	SLV	0.51	-5	5	SLV	0.23
-4	5	SLV	0.52	-4	5	SLV	0.21	-3	5	SLV	0.53	-3	5	SLV	0.20
-2	5	SLV	0.55	-2	5	SLV	0.18	-1	5	SLV	0.56	-1	5	SLV	0.17
1	5	SLV	0.60	1	5	SLV	0.41	2	5	SLV	0.55	2	5	SLV	0.43
3	5	SLV	0.39	3	5	SLV	0.37	4	5	SLV	0.46	4	5	SLV	0.37
5	5	SLV	0.59	5	5	SLV	0.46	6	5	SLV	0.39	6	5	SLV	0.39
7	5	SLV	0.39	7	5	SLV	0.38	8	5	SLV	0.50	8	5	SLV	0.43
9	5	SLV	0.59	9	5	SLV	0.50	10	5	SLV	0.38	10	5	SLV	0.38
11	5	SLV	0.39	11	5	SLV	0.38	12	5	SLV	0.58	12	5	SLV	0.43
13	5	SLV	0.60	13	5	SLV	0.52	14	5	SLV	0.38	14	5	SLV	0.37
15	5	SLV	0.38	15	5	SLV	0.37	16	5	SLV	0.66	16	5	SLV	0.42
17	5	SLV	0.63	17	5	SLV	0.52	18	5	SLV	0.37	18	5	SLV	0.37
19	5	SLV	0.38	19	5	SLV	0.37	20	5	SLV	0.51	20	5	SLV	0.45
21	5	SLV	0.68	21	5	SLV	0.50	22	5	SLV	0.39	22	5	SLV	0.39
23	5	SLV	0.74	23	5	SLV	0.49	24	5	SLV	0.65	24	5	SLV	0.48
-900	7	SLV	0.53	-900	7	SLV	0.46	-899	7	SLV	0.53	-899	7	SLV	0.46
-898	7	SLV	0.54	-898	7	SLV	0.46	-897	7	SLV	0.55	-897	7	SLV	0.46
-896	7	SLV	0.57	-896	7	SLV	0.47	-895	7	SLV	0.58	-895	7	SLV	0.47
-894	7	SLV	0.58	-894	7	SLV	0.47	-893	7	SLV	0.59	-893	7	SLV	0.47
-892	7	SLV	0.59	-892	7	SLV	0.48	-891	7	SLV	0.61	-891	7	SLV	0.48
-890	7	SLV	0.62	-890	7	SLV	0.50	-889	7	SLV	0.62	-889	7	SLV	0.51
-888	7	SLV	0.63	-888	7	SLV	0.52	-887	7	SLV	0.63	-887	7	SLV	0.53

-886	7	SLV	0.63	-886	7	SLV	0.55	-885	7	SLV	0.64	-885	7	SLV	0.56
-884	7	SLV	0.64	-884	7	SLV	0.57	-883	7	SLV	0.64	-883	7	SLV	0.57
-882	7	SLV	0.64	-882	7	SLV	0.58	-881	7	SLV	0.64	-881	7	SLV	0.59
-880	7	SLV	0.64	-880	7	SLV	0.59	-879	7	SLV	0.53	-879	7	SLV	0.46
-878	7	SLV	0.53	-878	7	SLV	0.46	-877	7	SLV	0.54	-877	7	SLV	0.46
-876	7	SLV	0.55	-876	7	SLV	0.46	-875	7	SLV	0.56	-875	7	SLV	0.46
-874	7	SLV	0.57	-874	7	SLV	0.47	-873	7	SLV	0.58	-873	7	SLV	0.47
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-870	7	SLV	0.60	-870	7	SLV	0.48	-869	7	SLV	0.60	-869	7	SLV	0.49
-868	7	SLV	0.61	-868	7	SLV	0.50	-867	7	SLV	0.61	-867	7	SLV	0.51
-866	7	SLV	0.62	-866	7	SLV	0.53	-865	7	SLV	0.62	-865	7	SLV	0.54
-864	7	SLV	0.62	-864	7	SLV	0.55	-863	7	SLV	0.63	-863	7	SLV	0.56
-862	7	SLV	0.63	-862	7	SLV	0.58	-861	7	SLV	0.64	-861	7	SLV	0.59
-860	7	SLV	0.51	-860	7	SLV	0.46	-859	7	SLV	0.51	-859	7	SLV	0.46
-858	7	SLV	0.51	-858	7	SLV	0.46	-857	7	SLV	0.51	-857	7	SLV	0.45
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-854	7	SLV	0.55	-854	7	SLV	0.47	-853	7	SLV	0.56	-853	7	SLV	0.48
-852	7	SLV	0.57	-852	7	SLV	0.48	-851	7	SLV	0.57	-851	7	SLV	0.48
-850	7	SLV	0.56	-850	7	SLV	0.47	-849	7	SLV	0.55	-849	7	SLV	0.47
-848	7	SLV	0.54	-848	7	SLV	0.47	-847	7	SLV	0.54	-847	7	SLV	0.47
-846	7	SLV	0.54	-846	7	SLV	0.48	-845	7	SLV	0.55	-845	7	SLV	0.49
-844	7	SLV	0.56	-844	7	SLV	0.50	-843	7	SLV	0.57	-843	7	SLV	0.52
-842	7	SLV	0.60	-842	7	SLV	0.55	-841	7	SLV	0.63	-841	7	SLV	0.59
-840	7	SLV	0.63	-840	7	SLV	0.59	-839	7	SLV	0.49	-839	7	SLV	0.47
-838	7	SLV	0.49	-838	7	SLV	0.47	-837	7	SLV	0.48	-837	7	SLV	0.46
-836	7	SLV	0.48	-836	7	SLV	0.45	-835	7	SLV	0.48	-835	7	SLV	0.45
-834	7	SLV	0.50	-834	7	SLV	0.46	-833	7	SLV	0.52	-833	7	SLV	0.47
-832	7	SLV	0.54	-832	7	SLV	0.48	-831	7	SLV	0.55	-831	7	SLV	0.49
-830	7	SLV	0.54	-830	7	SLV	0.47	-829	7	SLV	0.52	-829	7	SLV	0.45
-828	7	SLV	0.50	-828	7	SLV	0.44	-827	7	SLV	0.48	-827	7	SLV	0.43
-826	7	SLV	0.48	-826	7	SLV	0.43	-825	7	SLV	0.47	-825	7	SLV	0.43
-824	7	SLV	0.48	-824	7	SLV	0.44	-823	7	SLV	0.50	-823	7	SLV	0.46
-822	7	SLV	0.53	-822	7	SLV	0.49	-821	7	SLV	0.57	-821	7	SLV	0.53
-820	7	SLV	0.62	-820	7	SLV	0.58	-819	7	SLV	0.63	-819	7	SLV	0.59
-818	7	SLV	0.45	-818	7	SLV	0.49	-817	7	SLV	0.45	-817	7	SLV	0.49
-816	7	SLV	0.45	-816	7	SLV	0.47	-815	7	SLV	0.44	-815	7	SLV	0.47
-814	7	SLV	0.45	-814	7	SLV	0.46	-813	7	SLV	0.47	-813	7	SLV	0.47
-812	7	SLV	0.49	-812	7	SLV	0.49	-811	7	SLV	0.52	-811	7	SLV	0.50
-810	7	SLV	0.52	-810	7	SLV	0.50	-809	7	SLV	0.51	-809	7	SLV	0.47
-808	7	SLV	0.47	-808	7	SLV	0.44	-807	7	SLV	0.45	-807	7	SLV	0.42
-806	7	SLV	0.42	-806	7	SLV	0.40	-805	7	SLV	0.41	-805	7	SLV	0.39
-804	7	SLV	0.41	-804	7	SLV	0.38	-803	7	SLV	0.42	-803	7	SLV	0.39
-802	7	SLV	0.44	-802	7	SLV	0.41	-801	7	SLV	0.48	-801	7	SLV	0.45
-800	7	SLV	0.54	-800	7	SLV	0.51	-799	7	SLV	0.61	-799	7	SLV	0.58
-798	7	SLV	0.63	-798	7	SLV	0.60	-797	7	SLV	0.44	-797	7	SLV	0.50
-796	7	SLV	0.44	-796	7	SLV	0.50	-795	7	SLV	0.44	-795	7	SLV	0.49
-794	7	SLV	0.44	-794	7	SLV	0.48	-793	7	SLV	0.45	-793	7	SLV	0.48
-792	7	SLV	0.46	-792	7	SLV	0.48	-791	7	SLV	0.48	-791	7	SLV	0.50
-790	7	SLV	0.50	-790	7	SLV	0.51	-789	7	SLV	0.50	-789	7	SLV	0.51
-788	7	SLV	0.48	-788	7	SLV	0.48	-787	7	SLV	0.45	-787	7	SLV	0.44
-786	7	SLV	0.41	-786	7	SLV	0.41	-785	7	SLV	0.40	-785	7	SLV	0.39

-784	7	SLV	0.38	-784	7	SLV	0.37	-783	7	SLV	0.38	-783	7	SLV	0.37
-782	7	SLV	0.38	-782	7	SLV	0.37	-781	7	SLV	0.40	-781	7	SLV	0.39
-780	7	SLV	0.45	-780	7	SLV	0.43	-779	7	SLV	0.52	-779	7	SLV	0.50
-778	7	SLV	0.61	-778	7	SLV	0.58	-777	7	SLV	0.63	-777	7	SLV	0.60
-776	7	SLV	0.44	-776	7	SLV	0.50	-775	7	SLV	0.44	-775	7	SLV	0.49
-774	7	SLV	0.44	-774	7	SLV	0.49	-773	7	SLV	0.45	-773	7	SLV	0.48
-772	7	SLV	0.46	-772	7	SLV	0.48	-771	7	SLV	0.48	-771	7	SLV	0.48
-770	7	SLV	0.50	-770	7	SLV	0.49	-769	7	SLV	0.51	-769	7	SLV	0.50
-768	7	SLV	0.50	-768	7	SLV	0.50	-767	7	SLV	0.48	-767	7	SLV	0.47
-766	7	SLV	0.44	-766	7	SLV	0.43	-765	7	SLV	0.40	-765	7	SLV	0.41
-764	7	SLV	0.39	-764	7	SLV	0.39	-763	7	SLV	0.38	-763	7	SLV	0.38
-762	7	SLV	0.37	-762	7	SLV	0.37	-761	7	SLV	0.37	-761	7	SLV	0.36
-760	7	SLV	0.39	-760	7	SLV	0.38	-759	7	SLV	0.44	-759	7	SLV	0.43
-758	7	SLV	0.52	-758	7	SLV	0.50	-757	7	SLV	0.60	-757	7	SLV	0.58
-756	7	SLV	0.62	-756	7	SLV	0.60	-755	7	SLV	0.44	-755	7	SLV	0.49
-754	7	SLV	0.44	-754	7	SLV	0.49	-753	7	SLV	0.45	-753	7	SLV	0.48
-752	7	SLV	0.46	-752	7	SLV	0.48	-751	7	SLV	0.47	-751	7	SLV	0.48
-750	7	SLV	0.49	-750	7	SLV	0.48	-749	7	SLV	0.50	-749	7	SLV	0.48
-748	7	SLV	0.51	-748	7	SLV	0.49	-747	7	SLV	0.51	-747	7	SLV	0.48
-746	7	SLV	0.48	-746	7	SLV	0.45	-745	7	SLV	0.43	-745	7	SLV	0.42
-744	7	SLV	0.40	-744	7	SLV	0.40	-743	7	SLV	0.39	-743	7	SLV	0.39
-742	7	SLV	0.39	-742	7	SLV	0.39	-741	7	SLV	0.37	-741	7	SLV	0.37
-740	7	SLV	0.36	-740	7	SLV	0.36	-739	7	SLV	0.38	-739	7	SLV	0.37
-738	7	SLV	0.43	-738	7	SLV	0.42	-737	7	SLV	0.51	-737	7	SLV	0.50
-736	7	SLV	0.60	-736	7	SLV	0.58	-735	7	SLV	0.62	-735	7	SLV	0.60
-734	7	SLV	0.44	-734	7	SLV	0.48	-733	7	SLV	0.44	-733	7	SLV	0.48
-732	7	SLV	0.45	-732	7	SLV	0.47	-731	7	SLV	0.46	-731	7	SLV	0.47
-730	7	SLV	0.47	-730	7	SLV	0.47	-729	7	SLV	0.49	-729	7	SLV	0.47
-728	7	SLV	0.50	-728	7	SLV	0.47	-727	7	SLV	0.51	-727	7	SLV	0.47
-726	7	SLV	0.50	-726	7	SLV	0.47	-725	7	SLV	0.47	-725	7	SLV	0.43
-724	7	SLV	0.42	-724	7	SLV	0.40	-723	7	SLV	0.40	-723	7	SLV	0.38
-722	7	SLV	0.39	-722	7	SLV	0.38	-721	7	SLV	0.37	-721	7	SLV	0.37
-720	7	SLV	0.36	-720	7	SLV	0.35	-719	7	SLV	0.38	-719	7	SLV	0.37
-718	7	SLV	0.43	-718	7	SLV	0.42	-717	7	SLV	0.51	-717	7	SLV	0.49
-716	7	SLV	0.62	-716	7	SLV	0.60	-715	7	SLV	0.43	-715	7	SLV	0.45
-714	7	SLV	0.43	-714	7	SLV	0.45	-713	7	SLV	0.43	-713	7	SLV	0.45
-712	7	SLV	0.44	-712	7	SLV	0.44	-711	7	SLV	0.45	-711	7	SLV	0.44
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-708	7	SLV	0.47	-708	7	SLV	0.43	-707	7	SLV	0.46	-707	7	SLV	0.42
-706	7	SLV	0.43	-706	7	SLV	0.40	-705	7	SLV	0.40	-705	7	SLV	0.37
-704	7	SLV	0.38	-704	7	SLV	0.36	-703	7	SLV	0.37	-703	7	SLV	0.36
-702	7	SLV	0.37	-702	7	SLV	0.36	-701	7	SLV	0.35	-701	7	SLV	0.35
-700	7	SLV	0.35	-700	7	SLV	0.35	-699	7	SLV	0.37	-699	7	SLV	0.36
-698	7	SLV	0.42	-698	7	SLV	0.41	-697	7	SLV	0.50	-697	7	SLV	0.49
-696	7	SLV	0.59	-696	7	SLV	0.58	-695	7	SLV	0.61	-695	7	SLV	0.60
-694	7	SLV	0.41	-694	7	SLV	0.43	-693	7	SLV	0.41	-693	7	SLV	0.43
-692	7	SLV	0.41	-692	7	SLV	0.42	-691	7	SLV	0.41	-691	7	SLV	0.40
-690	7	SLV	0.41	-690	7	SLV	0.39	-689	7	SLV	0.42	-689	7	SLV	0.39
-688	7	SLV	0.42	-688	7	SLV	0.39	-687	7	SLV	0.42	-687	7	SLV	0.38
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-684	7	SLV	0.37	-684	7	SLV	0.35	-683	7	SLV	0.36	-683	7	SLV	0.34

-682	7	SLV	0.35	-682	7	SLV	0.33	-681	7	SLV	0.34	-681	7	SLV	0.33
-680	7	SLV	0.33	-680	7	SLV	0.33	-679	7	SLV	0.33	-679	7	SLV	0.34
-678	7	SLV	0.36	-678	7	SLV	0.36	-677	7	SLV	0.41	-677	7	SLV	0.41
-676	7	SLV	0.49	-676	7	SLV	0.49	-675	7	SLV	0.58	-675	7	SLV	0.58
-674	7	SLV	0.61	-674	7	SLV	0.60	-673	7	SLV	0.40	-673	7	SLV	0.43
-672	7	SLV	0.40	-672	7	SLV	0.42	-671	7	SLV	0.39	-671	7	SLV	0.40
-670	7	SLV	0.38	-670	7	SLV	0.38	-669	7	SLV	0.38	-669	7	SLV	0.36
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-666	7	SLV	0.38	-666	7	SLV	0.35	-665	7	SLV	0.38	-665	7	SLV	0.35
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-660	7	SLV	0.33	-660	7	SLV	0.32	-659	7	SLV	0.32	-659	7	SLV	0.32
-658	7	SLV	0.33	-658	7	SLV	0.33	-657	7	SLV	0.36	-657	7	SLV	0.36
-656	7	SLV	0.41	-656	7	SLV	0.41	-655	7	SLV	0.49	-655	7	SLV	0.49
-654	7	SLV	0.58	-654	7	SLV	0.58	-653	7	SLV	0.60	-653	7	SLV	0.60
-652	7	SLV	0.42	-652	7	SLV	0.44	-651	7	SLV	0.41	-651	7	SLV	0.44
-650	7	SLV	0.39	-650	7	SLV	0.40	-649	7	SLV	0.37	-649	7	SLV	0.37
-648	7	SLV	0.35	-648	7	SLV	0.35	-647	7	SLV	0.36	-647	7	SLV	0.34
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-642	7	SLV	0.34	-642	7	SLV	0.32	-641	7	SLV	0.33	-641	7	SLV	0.32
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-638	7	SLV	0.33	-638	7	SLV	0.33	-637	7	SLV	0.33	-637	7	SLV	0.33
-636	7	SLV	0.36	-636	7	SLV	0.36	-635	7	SLV	0.41	-635	7	SLV	0.41
-634	7	SLV	0.49	-634	7	SLV	0.49	-633	7	SLV	0.57	-633	7	SLV	0.58
-632	7	SLV	0.59	-632	7	SLV	0.60	-631	7	SLV	0.46	-631	7	SLV	0.47
-630	7	SLV	0.45	-630	7	SLV	0.46	-629	7	SLV	0.40	-629	7	SLV	0.41
-628	7	SLV	0.36	-628	7	SLV	0.37	-627	7	SLV	0.34	-627	7	SLV	0.34
-626	7	SLV	0.35	-626	7	SLV	0.34	-625	7	SLV	0.36	-625	7	SLV	0.35
-624	7	SLV	0.37	-624	7	SLV	0.36	-623	7	SLV	0.37	-623	7	SLV	0.35
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-620	7	SLV	0.34	-620	7	SLV	0.33	-619	7	SLV	0.35	-619	7	SLV	0.34
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-616	7	SLV	0.34	-616	7	SLV	0.34	-615	7	SLV	0.36	-615	7	SLV	0.36
-614	7	SLV	0.41	-614	7	SLV	0.41	-613	7	SLV	0.49	-613	7	SLV	0.49
-612	7	SLV	0.57	-612	7	SLV	0.58	-611	7	SLV	0.59	-611	7	SLV	0.60
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-608	7	SLV	0.37	-608	7	SLV	0.37	-607	7	SLV	0.34	-607	7	SLV	0.34
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-600	7	SLV	0.36	-600	7	SLV	0.35	-599	7	SLV	0.35	-599	7	SLV	0.36
-598	7	SLV	0.35	-598	7	SLV	0.35	-597	7	SLV	0.36	-597	7	SLV	0.37
-596	7	SLV	0.41	-596	7	SLV	0.42	-595	7	SLV	0.48	-595	7	SLV	0.49
-594	7	SLV	0.58	-594	7	SLV	0.60	-593	7	SLV	0.51	-593	7	SLV	0.46
-592	7	SLV	0.49	-592	7	SLV	0.45	-591	7	SLV	0.43	-591	7	SLV	0.40
-590	7	SLV	0.38	-590	7	SLV	0.36	-589	7	SLV	0.34	-589	7	SLV	0.33
-588	7	SLV	0.33	-588	7	SLV	0.33	-587	7	SLV	0.35	-587	7	SLV	0.35
-586	7	SLV	0.36	-586	7	SLV	0.35	-585	7	SLV	0.36	-585	7	SLV	0.35
-584	7	SLV	0.35	-584	7	SLV	0.34	-583	7	SLV	0.34	-583	7	SLV	0.33
-582	7	SLV	0.34	-582	7	SLV	0.33	-581	7	SLV	0.35	-581	7	SLV	0.35

-580	7	SLV	0.36	-580	7	SLV	0.35	-579	7	SLV	0.35	-579	7	SLV	0.35
-578	7	SLV	0.35	-578	7	SLV	0.35	-577	7	SLV	0.36	-577	7	SLV	0.37
-576	7	SLV	0.41	-576	7	SLV	0.42	-575	7	SLV	0.48	-575	7	SLV	0.49
-574	7	SLV	0.56	-574	7	SLV	0.58	-573	7	SLV	0.58	-573	7	SLV	0.60
-572	7	SLV	0.52	-572	7	SLV	0.43	-571	7	SLV	0.50	-571	7	SLV	0.42
-570	7	SLV	0.44	-570	7	SLV	0.38	-569	7	SLV	0.39	-569	7	SLV	0.34
-568	7	SLV	0.35	-568	7	SLV	0.32	-567	7	SLV	0.34	-567	7	SLV	0.32
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-556	7	SLV	0.36	-556	7	SLV	0.37	-555	7	SLV	0.41	-555	7	SLV	0.42
-554	7	SLV	0.48	-554	7	SLV	0.49	-553	7	SLV	0.55	-553	7	SLV	0.58
-552	7	SLV	0.57	-552	7	SLV	0.60	-551	7	SLV	0.55	-551	7	SLV	0.42
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-548	7	SLV	0.41	-548	7	SLV	0.34	-547	7	SLV	0.36	-547	7	SLV	0.32
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-542	7	SLV	0.34	-542	7	SLV	0.34	-541	7	SLV	0.34	-541	7	SLV	0.33
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-532	7	SLV	0.55	-532	7	SLV	0.58	-531	7	SLV	0.57	-531	7	SLV	0.60
-530	7	SLV	0.61	-530	7	SLV	0.44	-529	7	SLV	0.59	-529	7	SLV	0.43
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-526	7	SLV	0.38	-526	7	SLV	0.32	-525	7	SLV	0.35	-525	7	SLV	0.32
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-522	7	SLV	0.36	-522	7	SLV	0.36	-521	7	SLV	0.35	-521	7	SLV	0.34
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-514	7	SLV	0.36	-514	7	SLV	0.37	-513	7	SLV	0.40	-513	7	SLV	0.42
-512	7	SLV	0.47	-512	7	SLV	0.49	-511	7	SLV	0.55	-511	7	SLV	0.58
-510	7	SLV	0.56	-510	7	SLV	0.60	-509	7	SLV	0.65	-509	7	SLV	0.46
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-506	7	SLV	0.38	-506	7	SLV	0.32	-505	7	SLV	0.36	-505	7	SLV	0.33
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-498	7	SLV	0.36	-498	7	SLV	0.36	-497	7	SLV	0.35	-497	7	SLV	0.35
-496	7	SLV	0.36	-496	7	SLV	0.37	-495	7	SLV	0.40	-495	7	SLV	0.41
-494	7	SLV	0.47	-494	7	SLV	0.49	-493	7	SLV	0.56	-493	7	SLV	0.59
-492	7	SLV	0.64	-492	7	SLV	0.46	-491	7	SLV	0.62	-491	7	SLV	0.45
-490	7	SLV	0.53	-490	7	SLV	0.40	-489	7	SLV	0.45	-489	7	SLV	0.35
-488	7	SLV	0.38	-488	7	SLV	0.32	-487	7	SLV	0.35	-487	7	SLV	0.32
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-484	7	SLV	0.35	-484	7	SLV	0.34	-483	7	SLV	0.33	-483	7	SLV	0.33
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-478	7	SLV	0.34	-478	7	SLV	0.34	-477	7	SLV	0.34	-477	7	SLV	0.34
-476	7	SLV	0.35	-476	7	SLV	0.36	-475	7	SLV	0.40	-475	7	SLV	0.41
-474	7	SLV	0.46	-474	7	SLV	0.49	-473	7	SLV	0.54	-473	7	SLV	0.57
-472	7	SLV	0.56	-472	7	SLV	0.59	-471	7	SLV	0.62	-471	7	SLV	0.46
-470	7	SLV	0.60	-470	7	SLV	0.45	-469	7	SLV	0.52	-469	7	SLV	0.40
-468	7	SLV	0.44	-468	7	SLV	0.35	-467	7	SLV	0.38	-467	7	SLV	0.32
-466	7	SLV	0.34	-466	7	SLV	0.31	-465	7	SLV	0.33	-465	7	SLV	0.31
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-462	7	SLV	0.31	-462	7	SLV	0.31	-461	7	SLV	0.31	-461	7	SLV	0.31
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-458	7	SLV	0.32	-458	7	SLV	0.32	-457	7	SLV	0.32	-457	7	SLV	0.32
-456	7	SLV	0.33	-456	7	SLV	0.33	-455	7	SLV	0.35	-455	7	SLV	0.35
-454	7	SLV	0.39	-454	7	SLV	0.41	-453	7	SLV	0.46	-453	7	SLV	0.48
-452	7	SLV	0.54	-452	7	SLV	0.57	-451	7	SLV	0.55	-451	7	SLV	0.59
-450	7	SLV	0.61	-450	7	SLV	0.46	-449	7	SLV	0.59	-449	7	SLV	0.45
-448	7	SLV	0.51	-448	7	SLV	0.40	-447	7	SLV	0.43	-447	7	SLV	0.35
-446	7	SLV	0.37	-446	7	SLV	0.32	-445	7	SLV	0.34	-445	7	SLV	0.31
-444	7	SLV	0.32	-444	7	SLV	0.31	-443	7	SLV	0.31	-443	7	SLV	0.31
-442	7	SLV	0.31	-442	7	SLV	0.31	-441	7	SLV	0.31	-441	7	SLV	0.31
-440	7	SLV	0.31	-440	7	SLV	0.30	-439	7	SLV	0.31	-439	7	SLV	0.30
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-428	7	SLV	0.57	-428	7	SLV	0.45	-427	7	SLV	0.50	-427	7	SLV	0.40
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-422	7	SLV	0.33	-422	7	SLV	0.32	-421	7	SLV	0.32	-421	7	SLV	0.32
-420	7	SLV	0.32	-420	7	SLV	0.32	-419	7	SLV	0.31	-419	7	SLV	0.31
-418	7	SLV	0.32	-418	7	SLV	0.31	-417	7	SLV	0.32	-417	7	SLV	0.32
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-412	7	SLV	0.39	-412	7	SLV	0.40	-411	7	SLV	0.46	-411	7	SLV	0.47
-410	7	SLV	0.54	-410	7	SLV	0.55	-409	7	SLV	0.55	-409	7	SLV	0.57
-408	7	SLV	0.58	-408	7	SLV	0.47	-407	7	SLV	0.56	-407	7	SLV	0.45
-406	7	SLV	0.49	-406	7	SLV	0.41	-405	7	SLV	0.42	-405	7	SLV	0.36
-404	7	SLV	0.37	-404	7	SLV	0.33	-403	7	SLV	0.35	-403	7	SLV	0.33
-402	7	SLV	0.35	-402	7	SLV	0.34	-401	7	SLV	0.36	-401	7	SLV	0.36
-400	7	SLV	0.35	-400	7	SLV	0.35	-399	7	SLV	0.34	-399	7	SLV	0.34
-398	7	SLV	0.33	-398	7	SLV	0.33	-397	7	SLV	0.33	-397	7	SLV	0.33
-396	7	SLV	0.35	-396	7	SLV	0.35	-395	7	SLV	0.36	-395	7	SLV	0.36
-394	7	SLV	0.35	-394	7	SLV	0.35	-393	7	SLV	0.34	-393	7	SLV	0.34
-392	7	SLV	0.36	-392	7	SLV	0.36	-391	7	SLV	0.40	-391	7	SLV	0.40
-390	7	SLV	0.47	-390	7	SLV	0.47	-389	7	SLV	0.54	-389	7	SLV	0.55
-388	7	SLV	0.55	-388	7	SLV	0.57	-387	7	SLV	0.56	-387	7	SLV	0.47
-386	7	SLV	0.48	-386	7	SLV	0.41	-385	7	SLV	0.42	-385	7	SLV	0.37
-384	7	SLV	0.37	-384	7	SLV	0.34	-383	7	SLV	0.35	-383	7	SLV	0.34
-382	7	SLV	0.37	-382	7	SLV	0.36	-381	7	SLV	0.37	-381	7	SLV	0.37
-380	7	SLV	0.35	-380	7	SLV	0.35	-379	7	SLV	0.34	-379	7	SLV	0.34
-378	7	SLV	0.34	-378	7	SLV	0.34	-377	7	SLV	0.36	-377	7	SLV	0.36

-376	7	SLV	0.37	-376	7	SLV	0.36	-375	7	SLV	0.35	-375	7	SLV	0.35
-374	7	SLV	0.36	-374	7	SLV	0.36	-373	7	SLV	0.40	-373	7	SLV	0.40
-372	7	SLV	0.47	-372	7	SLV	0.47	-371	7	SLV	0.55	-371	7	SLV	0.56
-370	7	SLV	0.55	-370	7	SLV	0.47	-369	7	SLV	0.53	-369	7	SLV	0.46
-368	7	SLV	0.47	-368	7	SLV	0.41	-367	7	SLV	0.41	-367	7	SLV	0.37
-366	7	SLV	0.36	-366	7	SLV	0.34	-365	7	SLV	0.35	-365	7	SLV	0.33
-364	7	SLV	0.35	-364	7	SLV	0.35	-363	7	SLV	0.36	-363	7	SLV	0.36
-362	7	SLV	0.36	-362	7	SLV	0.36	-361	7	SLV	0.34	-361	7	SLV	0.34
-360	7	SLV	0.33	-360	7	SLV	0.33	-359	7	SLV	0.34	-359	7	SLV	0.34
-358	7	SLV	0.35	-358	7	SLV	0.35	-357	7	SLV	0.36	-357	7	SLV	0.36
-356	7	SLV	0.35	-356	7	SLV	0.35	-355	7	SLV	0.35	-355	7	SLV	0.34
-354	7	SLV	0.36	-354	7	SLV	0.36	-353	7	SLV	0.40	-353	7	SLV	0.40
-352	7	SLV	0.47	-352	7	SLV	0.46	-351	7	SLV	0.54	-351	7	SLV	0.53
-350	7	SLV	0.56	-350	7	SLV	0.55	-349	7	SLV	0.53	-349	7	SLV	0.47
-348	7	SLV	0.52	-348	7	SLV	0.46	-347	7	SLV	0.45	-347	7	SLV	0.41
-346	7	SLV	0.40	-346	7	SLV	0.36	-345	7	SLV	0.35	-345	7	SLV	0.33
-344	7	SLV	0.33	-344	7	SLV	0.32	-343	7	SLV	0.33	-343	7	SLV	0.32
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-340	7	SLV	0.32	-340	7	SLV	0.32	-339	7	SLV	0.32	-339	7	SLV	0.32
-338	7	SLV	0.32	-338	7	SLV	0.32	-337	7	SLV	0.33	-337	7	SLV	0.33
-336	7	SLV	0.33	-336	7	SLV	0.33	-335	7	SLV	0.33	-335	7	SLV	0.33
-334	7	SLV	0.34	-334	7	SLV	0.33	-333	7	SLV	0.36	-333	7	SLV	0.35
-332	7	SLV	0.40	-332	7	SLV	0.39	-331	7	SLV	0.47	-331	7	SLV	0.45
-330	7	SLV	0.54	-330	7	SLV	0.53	-329	7	SLV	0.56	-329	7	SLV	0.54
-328	7	SLV	0.52	-328	7	SLV	0.47	-327	7	SLV	0.50	-327	7	SLV	0.46
-326	7	SLV	0.44	-326	7	SLV	0.41	-325	7	SLV	0.39	-325	7	SLV	0.36
-324	7	SLV	0.35	-324	7	SLV	0.33	-323	7	SLV	0.33	-323	7	SLV	0.32
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-318	7	SLV	0.32	-318	7	SLV	0.32	-317	7	SLV	0.32	-317	7	SLV	0.32
-316	7	SLV	0.32	-316	7	SLV	0.32	-315	7	SLV	0.32	-315	7	SLV	0.32
-314	7	SLV	0.32	-314	7	SLV	0.32	-313	7	SLV	0.33	-313	7	SLV	0.33
-312	7	SLV	0.35	-312	7	SLV	0.35	-311	7	SLV	0.40	-311	7	SLV	0.39
-310	7	SLV	0.46	-310	7	SLV	0.45	-309	7	SLV	0.54	-309	7	SLV	0.52
-308	7	SLV	0.56	-308	7	SLV	0.53	-307	7	SLV	0.50	-307	7	SLV	0.47
-306	7	SLV	0.49	-306	7	SLV	0.46	-305	7	SLV	0.43	-305	7	SLV	0.41
-304	7	SLV	0.38	-304	7	SLV	0.36	-303	7	SLV	0.34	-303	7	SLV	0.33
-302	7	SLV	0.33	-302	7	SLV	0.32	-301	7	SLV	0.33	-301	7	SLV	0.32
-300	7	SLV	0.33	-300	7	SLV	0.33	-299	7	SLV	0.33	-299	7	SLV	0.33
-298	7	SLV	0.33	-298	7	SLV	0.33	-297	7	SLV	0.32	-297	7	SLV	0.32
-296	7	SLV	0.32	-296	7	SLV	0.32	-295	7	SLV	0.33	-295	7	SLV	0.33
-294	7	SLV	0.33	-294	7	SLV	0.33	-293	7	SLV	0.33	-293	7	SLV	0.33
-292	7	SLV	0.34	-292	7	SLV	0.33	-291	7	SLV	0.36	-291	7	SLV	0.35
-290	7	SLV	0.40	-290	7	SLV	0.38	-289	7	SLV	0.47	-289	7	SLV	0.44
-288	7	SLV	0.54	-288	7	SLV	0.51	-287	7	SLV	0.56	-287	7	SLV	0.53
-286	7	SLV	0.49	-286	7	SLV	0.47	-285	7	SLV	0.48	-285	7	SLV	0.46
-284	7	SLV	0.42	-284	7	SLV	0.41	-283	7	SLV	0.38	-283	7	SLV	0.37
-282	7	SLV	0.34	-282	7	SLV	0.34	-281	7	SLV	0.34	-281	7	SLV	0.33
-280	7	SLV	0.35	-280	7	SLV	0.35	-279	7	SLV	0.36	-279	7	SLV	0.36
-278	7	SLV	0.36	-278	7	SLV	0.36	-277	7	SLV	0.34	-277	7	SLV	0.34
-276	7	SLV	0.33	-276	7	SLV	0.33	-275	7	SLV	0.34	-275	7	SLV	0.34

-274	7	SLV	0.35	-274	7	SLV	0.35	-273	7	SLV	0.36	-273	7	SLV	0.36
-272	7	SLV	0.36	-272	7	SLV	0.35	-271	7	SLV	0.35	-271	7	SLV	0.34
-270	7	SLV	0.36	-270	7	SLV	0.35	-269	7	SLV	0.41	-269	7	SLV	0.38
-268	7	SLV	0.47	-268	7	SLV	0.44	-267	7	SLV	0.55	-267	7	SLV	0.50
-266	7	SLV	0.56	-266	7	SLV	0.52	-265	7	SLV	0.48	-265	7	SLV	0.47
-264	7	SLV	0.42	-264	7	SLV	0.41	-263	7	SLV	0.37	-263	7	SLV	0.37
-262	7	SLV	0.34	-262	7	SLV	0.34	-261	7	SLV	0.34	-261	7	SLV	0.34
-260	7	SLV	0.36	-260	7	SLV	0.36	-259	7	SLV	0.37	-259	7	SLV	0.37
-258	7	SLV	0.35	-258	7	SLV	0.35	-257	7	SLV	0.34	-257	7	SLV	0.34
-256	7	SLV	0.34	-256	7	SLV	0.34	-255	7	SLV	0.37	-255	7	SLV	0.37
-254	7	SLV	0.37	-254	7	SLV	0.37	-253	7	SLV	0.36	-253	7	SLV	0.35
-252	7	SLV	0.37	-252	7	SLV	0.35	-251	7	SLV	0.41	-251	7	SLV	0.38
-250	7	SLV	0.48	-250	7	SLV	0.44	-249	7	SLV	0.56	-249	7	SLV	0.51
-248	7	SLV	0.46	-248	7	SLV	0.47	-247	7	SLV	0.45	-247	7	SLV	0.46
-246	7	SLV	0.40	-246	7	SLV	0.41	-245	7	SLV	0.36	-245	7	SLV	0.36
-244	7	SLV	0.33	-244	7	SLV	0.33	-243	7	SLV	0.33	-243	7	SLV	0.33
-242	7	SLV	0.35	-242	7	SLV	0.34	-241	7	SLV	0.36	-241	7	SLV	0.36
-240	7	SLV	0.36	-240	7	SLV	0.35	-239	7	SLV	0.34	-239	7	SLV	0.34
-238	7	SLV	0.33	-238	7	SLV	0.33	-237	7	SLV	0.34	-237	7	SLV	0.34
-236	7	SLV	0.35	-236	7	SLV	0.36	-235	7	SLV	0.37	-235	7	SLV	0.37
-234	7	SLV	0.36	-234	7	SLV	0.36	-233	7	SLV	0.36	-233	7	SLV	0.34
-232	7	SLV	0.37	-232	7	SLV	0.35	-231	7	SLV	0.41	-231	7	SLV	0.38
-230	7	SLV	0.48	-230	7	SLV	0.43	-229	7	SLV	0.55	-229	7	SLV	0.49
-228	7	SLV	0.57	-228	7	SLV	0.50	-227	7	SLV	0.45	-227	7	SLV	0.47
-226	7	SLV	0.44	-226	7	SLV	0.46	-225	7	SLV	0.39	-225	7	SLV	0.40
-224	7	SLV	0.35	-224	7	SLV	0.36	-223	7	SLV	0.32	-223	7	SLV	0.33
-222	7	SLV	0.32	-222	7	SLV	0.32	-221	7	SLV	0.32	-221	7	SLV	0.32
-220	7	SLV	0.33	-220	7	SLV	0.32	-219	7	SLV	0.33	-219	7	SLV	0.33
-218	7	SLV	0.32	-218	7	SLV	0.32	-217	7	SLV	0.32	-217	7	SLV	0.32
-216	7	SLV	0.32	-216	7	SLV	0.33	-215	7	SLV	0.33	-215	7	SLV	0.34
-214	7	SLV	0.34	-214	7	SLV	0.34	-213	7	SLV	0.35	-213	7	SLV	0.34
-212	7	SLV	0.35	-212	7	SLV	0.33	-211	7	SLV	0.38	-211	7	SLV	0.34
-210	7	SLV	0.42	-210	7	SLV	0.37	-209	7	SLV	0.48	-209	7	SLV	0.42
-208	7	SLV	0.55	-208	7	SLV	0.48	-207	7	SLV	0.57	-207	7	SLV	0.50
-206	7	SLV	0.44	-206	7	SLV	0.47	-205	7	SLV	0.43	-205	7	SLV	0.45
-204	7	SLV	0.38	-204	7	SLV	0.40	-203	7	SLV	0.34	-203	7	SLV	0.35
-202	7	SLV	0.31	-202	7	SLV	0.32	-201	7	SLV	0.30	-201	7	SLV	0.30
-200	7	SLV	0.30	-200	7	SLV	0.30	-199	7	SLV	0.31	-199	7	SLV	0.31
-198	7	SLV	0.31	-198	7	SLV	0.31	-197	7	SLV	0.31	-197	7	SLV	0.31
-196	7	SLV	0.31	-196	7	SLV	0.32	-195	7	SLV	0.31	-195	7	SLV	0.32
-194	7	SLV	0.32	-194	7	SLV	0.33	-193	7	SLV	0.33	-193	7	SLV	0.33
-192	7	SLV	0.34	-192	7	SLV	0.33	-191	7	SLV	0.36	-191	7	SLV	0.33
-190	7	SLV	0.38	-190	7	SLV	0.34	-189	7	SLV	0.43	-189	7	SLV	0.37
-188	7	SLV	0.48	-188	7	SLV	0.42	-187	7	SLV	0.55	-187	7	SLV	0.47
-186	7	SLV	0.57	-186	7	SLV	0.49	-185	7	SLV	0.44	-185	7	SLV	0.46
-184	7	SLV	0.42	-184	7	SLV	0.44	-183	7	SLV	0.38	-183	7	SLV	0.39
-182	7	SLV	0.34	-182	7	SLV	0.35	-181	7	SLV	0.31	-181	7	SLV	0.32
-180	7	SLV	0.30	-180	7	SLV	0.30	-179	7	SLV	0.30	-179	7	SLV	0.30
-178	7	SLV	0.31	-178	7	SLV	0.31	-177	7	SLV	0.31	-177	7	SLV	0.31
-176	7	SLV	0.31	-176	7	SLV	0.31	-175	7	SLV	0.31	-175	7	SLV	0.32
-174	7	SLV	0.32	-174	7	SLV	0.33	-173	7	SLV	0.33	-173	7	SLV	0.34

-172	7	SLV	0.35	-172	7	SLV	0.35	-171	7	SLV	0.36	-171	7	SLV	0.35
-170	7	SLV	0.38	-170	7	SLV	0.35	-169	7	SLV	0.41	-169	7	SLV	0.35
-168	7	SLV	0.44	-168	7	SLV	0.38	-167	7	SLV	0.49	-167	7	SLV	0.42
-166	7	SLV	0.55	-166	7	SLV	0.47	-165	7	SLV	0.57	-165	7	SLV	0.48
-164	7	SLV	0.43	-164	7	SLV	0.45	-163	7	SLV	0.42	-163	7	SLV	0.43
-162	7	SLV	0.38	-162	7	SLV	0.39	-161	7	SLV	0.34	-161	7	SLV	0.34
-160	7	SLV	0.31	-160	7	SLV	0.32	-159	7	SLV	0.31	-159	7	SLV	0.31
-158	7	SLV	0.31	-158	7	SLV	0.32	-157	7	SLV	0.32	-157	7	SLV	0.33
-156	7	SLV	0.32	-156	7	SLV	0.33	-155	7	SLV	0.32	-155	7	SLV	0.33
-154	7	SLV	0.33	-154	7	SLV	0.34	-153	7	SLV	0.34	-153	7	SLV	0.35
-152	7	SLV	0.37	-152	7	SLV	0.37	-151	7	SLV	0.39	-151	7	SLV	0.38
-150	7	SLV	0.41	-150	7	SLV	0.38	-149	7	SLV	0.42	-149	7	SLV	0.38
-148	7	SLV	0.44	-148	7	SLV	0.38	-147	7	SLV	0.47	-147	7	SLV	0.39
-146	7	SLV	0.51	-146	7	SLV	0.42	-145	7	SLV	0.56	-145	7	SLV	0.46
-144	7	SLV	0.57	-144	7	SLV	0.47	-143	7	SLV	0.43	-143	7	SLV	0.44
-142	7	SLV	0.42	-142	7	SLV	0.42	-141	7	SLV	0.38	-141	7	SLV	0.38
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-138	7	SLV	0.32	-138	7	SLV	0.32	-137	7	SLV	0.34	-137	7	SLV	0.34
-136	7	SLV	0.35	-136	7	SLV	0.35	-135	7	SLV	0.35	-135	7	SLV	0.36
-134	7	SLV	0.35	-134	7	SLV	0.35	-133	7	SLV	0.35	-133	7	SLV	0.35
-132	7	SLV	0.37	-132	7	SLV	0.37	-131	7	SLV	0.41	-131	7	SLV	0.41
-130	7	SLV	0.45	-130	7	SLV	0.43	-129	7	SLV	0.47	-129	7	SLV	0.43
-128	7	SLV	0.48	-128	7	SLV	0.42	-127	7	SLV	0.50	-127	7	SLV	0.41
-126	7	SLV	0.51	-126	7	SLV	0.42	-125	7	SLV	0.53	-125	7	SLV	0.43
-124	7	SLV	0.56	-124	7	SLV	0.45	-123	7	SLV	0.56	-123	7	SLV	0.46
-122	7	SLV	0.43	-122	7	SLV	0.42	-121	7	SLV	0.38	-121	7	SLV	0.37
-120	7	SLV	0.35	-120	7	SLV	0.34	-119	7	SLV	0.32	-119	7	SLV	0.32
-118	7	SLV	0.33	-118	7	SLV	0.32	-117	7	SLV	0.35	-117	7	SLV	0.35
-116	7	SLV	0.37	-116	7	SLV	0.37	-115	7	SLV	0.36	-115	7	SLV	0.35
-114	7	SLV	0.36	-114	7	SLV	0.36	-113	7	SLV	0.39	-113	7	SLV	0.38
-112	7	SLV	0.44	-112	7	SLV	0.43	-111	7	SLV	0.52	-111	7	SLV	0.47
-110	7	SLV	0.54	-110	7	SLV	0.46	-109	7	SLV	0.55	-109	7	SLV	0.45
-108	7	SLV	0.56	-108	7	SLV	0.44	-107	7	SLV	0.56	-107	7	SLV	0.45
-106	7	SLV	0.56	-106	7	SLV	0.45	-105	7	SLV	0.43	-105	7	SLV	0.42
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-102	7	SLV	0.35	-102	7	SLV	0.33	-101	7	SLV	0.33	-101	7	SLV	0.32
-100	7	SLV	0.33	-100	7	SLV	0.32	-99	7	SLV	0.35	-99	7	SLV	0.35
-98	7	SLV	0.38	-98	7	SLV	0.37	-97	7	SLV	0.37	-97	7	SLV	0.37
-96	7	SLV	0.36	-96	7	SLV	0.35	-95	7	SLV	0.36	-95	7	SLV	0.36
-94	7	SLV	0.39	-94	7	SLV	0.38	-93	7	SLV	0.45	-93	7	SLV	0.43
-92	7	SLV	0.51	-92	7	SLV	0.48	-91	7	SLV	0.54	-91	7	SLV	0.48
-90	7	SLV	0.55	-90	7	SLV	0.47	-89	7	SLV	0.56	-89	7	SLV	0.46
-88	7	SLV	0.57	-88	7	SLV	0.45	-87	7	SLV	0.57	-87	7	SLV	0.45
-86	7	SLV	0.56	-86	7	SLV	0.45	-85	7	SLV	0.57	-85	7	SLV	0.45
-84	7	SLV	0.43	-84	7	SLV	0.41	-83	7	SLV	0.42	-83	7	SLV	0.40
-82	7	SLV	0.38	-82	7	SLV	0.36	-81	7	SLV	0.35	-81	7	SLV	0.33
-80	7	SLV	0.33	-80	7	SLV	0.31	-79	7	SLV	0.33	-79	7	SLV	0.31
-78	7	SLV	0.35	-78	7	SLV	0.33	-77	7	SLV	0.36	-77	7	SLV	0.34
-76	7	SLV	0.36	-76	7	SLV	0.34	-75	7	SLV	0.36	-75	7	SLV	0.33
-74	7	SLV	0.37	-74	7	SLV	0.34	-73	7	SLV	0.40	-73	7	SLV	0.36
-72	7	SLV	0.44	-72	7	SLV	0.40	-71	7	SLV	0.49	-71	7	SLV	0.44

-70	7	SLV	0.42	-70	7	SLV	0.39	-69	7	SLV	0.41	-69	7	SLV	0.38
-68	7	SLV	0.38	-68	7	SLV	0.35	-67	7	SLV	0.36	-67	7	SLV	0.32
-66	7	SLV	0.34	-66	7	SLV	0.30	-65	7	SLV	0.34	-65	7	SLV	0.29
-64	7	SLV	0.34	-64	7	SLV	0.30	-63	7	SLV	0.35	-63	7	SLV	0.30
-62	7	SLV	0.35	-62	7	SLV	0.31	-61	7	SLV	0.36	-61	7	SLV	0.31
-60	7	SLV	0.37	-60	7	SLV	0.31	-59	7	SLV	0.39	-59	7	SLV	0.32
-58	7	SLV	0.43	-58	7	SLV	0.34	-57	7	SLV	0.47	-57	7	SLV	0.37
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-54	7	SLV	0.39	-54	7	SLV	0.34	-53	7	SLV	0.37	-53	7	SLV	0.31
-52	7	SLV	0.36	-52	7	SLV	0.29	-51	7	SLV	0.35	-51	7	SLV	0.28
-50	7	SLV	0.35	-50	7	SLV	0.28	-49	7	SLV	0.36	-49	7	SLV	0.29
-48	7	SLV	0.36	-48	7	SLV	0.29	-47	7	SLV	0.36	-47	7	SLV	0.29
-46	7	SLV	0.37	-46	7	SLV	0.30	-45	7	SLV	0.39	-45	7	SLV	0.30
-44	7	SLV	0.41	-44	7	SLV	0.31	-43	7	SLV	0.43	-43	7	SLV	0.33
-42	7	SLV	0.41	-42	7	SLV	0.36	-41	7	SLV	0.41	-41	7	SLV	0.35
-40	7	SLV	0.40	-40	7	SLV	0.33	-39	7	SLV	0.40	-39	7	SLV	0.31
-38	7	SLV	0.39	-38	7	SLV	0.30	-37	7	SLV	0.39	-37	7	SLV	0.29
-36	7	SLV	0.39	-36	7	SLV	0.29	-35	7	SLV	0.39	-35	7	SLV	0.29
-34	7	SLV	0.39	-34	7	SLV	0.29	-33	7	SLV	0.39	-33	7	SLV	0.29
-32	7	SLV	0.39	-32	7	SLV	0.29	-31	7	SLV	0.40	-31	7	SLV	0.30
-30	7	SLV	0.41	-30	7	SLV	0.30	-29	7	SLV	0.42	-29	7	SLV	0.31
-28	7	SLV	0.41	-28	7	SLV	0.34	-27	7	SLV	0.41	-27	7	SLV	0.34
-26	7	SLV	0.42	-26	7	SLV	0.33	-25	7	SLV	0.43	-25	7	SLV	0.32
-24	7	SLV	0.44	-24	7	SLV	0.30	-23	7	SLV	0.44	-23	7	SLV	0.30
-22	7	SLV	0.44	-22	7	SLV	0.30	-21	7	SLV	0.43	-21	7	SLV	0.30
-20	7	SLV	0.43	-20	7	SLV	0.30	-19	7	SLV	0.43	-19	7	SLV	0.30
-18	7	SLV	0.43	-18	7	SLV	0.30	-17	7	SLV	0.43	-17	7	SLV	0.30
-16	7	SLV	0.43	-16	7	SLV	0.30	-15	7	SLV	0.42	-15	7	SLV	0.30
-14	7	SLV	0.41	-14	7	SLV	0.34	-13	7	SLV	0.41	-13	7	SLV	0.34
-12	7	SLV	0.42	-12	7	SLV	0.33	-11	7	SLV	0.43	-11	7	SLV	0.32
-10	7	SLV	0.44	-10	7	SLV	0.31	-9	7	SLV	0.45	-9	7	SLV	0.30
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-6	7	SLV	0.44	-6	7	SLV	0.30	-5	7	SLV	0.44	-5	7	SLV	0.30
-4	7	SLV	0.44	-4	7	SLV	0.30	-3	7	SLV	0.43	-3	7	SLV	0.30
-2	7	SLV	0.43	-2	7	SLV	0.30	-1	7	SLV	0.43	-1	7	SLV	0.30
1	7	SLV	0.56	1	7	SLV	0.45	2	7	SLV	0.50	2	7	SLV	0.48
3	7	SLV	0.38	3	7	SLV	0.38	4	7	SLV	0.42	4	7	SLV	0.41
5	7	SLV	0.55	5	7	SLV	0.50	6	7	SLV	0.39	6	7	SLV	0.39
7	7	SLV	0.38	7	7	SLV	0.38	8	7	SLV	0.46	8	7	SLV	0.46
9	7	SLV	0.54	9	7	SLV	0.54	10	7	SLV	0.38	10	7	SLV	0.38
11	7	SLV	0.38	11	7	SLV	0.38	12	7	SLV	0.55	12	7	SLV	0.46
13	7	SLV	0.54	13	7	SLV	0.58	14	7	SLV	0.38	14	7	SLV	0.37
15	7	SLV	0.38	15	7	SLV	0.37	16	7	SLV	0.63	16	7	SLV	0.45
17	7	SLV	0.57	17	7	SLV	0.58	18	7	SLV	0.37	18	7	SLV	0.37
19	7	SLV	0.38	19	7	SLV	0.37	20	7	SLV	0.49	20	7	SLV	0.47
21	7	SLV	0.60	21	7	SLV	0.58	22	7	SLV	0.39	22	7	SLV	0.39
23	7	SLV	0.64	23	7	SLV	0.59	24	7	SLV	0.61	24	7	SLV	0.52
-900	9	SLU	0.71	-899	9	SLU	0.71	-898	9	SLU	0.72	-897	9	SLU	0.73
-896	9	SLU	0.74	-895	9	SLU	0.76	-894	9	SLU	0.77	-893	9	SLU	0.78
-892	9	SLU	0.79	-891	9	SLU	0.80	-890	9	SLU	0.82	-889	9	SLU	0.84
-888	9	SLU	0.86	-887	9	SLU	0.87	-886	9	SLU	0.88	-885	9	SLU	0.90

-884	9	SLU	0.91	-883	9	SLU	0.92	-882	9	SLU	0.92	-881	9	SLU	0.93
-880	9	SLU	0.94	-879	9	SLU	0.70	-878	9	SLU	0.70	-877	9	SLU	0.71
-876	9	SLU	0.72	-875	9	SLU	0.73	-874	9	SLU	0.75	-873	9	SLU	0.76
-872	9	SLU	0.77	-871	9	SLU	0.78	-870	9	SLU	0.80	-869	9	SLU	0.81
-868	9	SLU	0.82	-867	9	SLU	0.83	-866	9	SLU	0.86	-865	9	SLU	0.87
-864	9	SLU	0.89	-863	9	SLU	0.90	-862	9	SLU	0.91	-861	9	SLU	0.94
-860	9	SLU	0.69	-859	9	SLU	0.69	-858	9	SLU	0.69	-857	9	SLU	0.69
-856	9	SLU	0.70	-855	9	SLU	0.72	-854	9	SLU	0.74	-853	9	SLU	0.76
-852	9	SLU	0.77	-851	9	SLU	0.77	-850	9	SLU	0.76	-849	9	SLU	0.75
-848	9	SLU	0.76	-847	9	SLU	0.76	-846	9	SLU	0.77	-845	9	SLU	0.78
-844	9	SLU	0.80	-843	9	SLU	0.83	-842	9	SLU	0.87	-841	9	SLU	0.92
-840	9	SLU	0.93	-839	9	SLU	0.68	-838	9	SLU	0.68	-837	9	SLU	0.67
-836	9	SLU	0.67	-835	9	SLU	0.67	-834	9	SLU	0.69	-833	9	SLU	0.72
-832	9	SLU	0.75	-831	9	SLU	0.76	-830	9	SLU	0.75	-829	9	SLU	0.72
-828	9	SLU	0.70	-827	9	SLU	0.68	-826	9	SLU	0.68	-825	9	SLU	0.68
-824	9	SLU	0.69	-823	9	SLU	0.72	-822	9	SLU	0.77	-821	9	SLU	0.84
-820	9	SLU	0.92	-819	9	SLU	0.93	-818	9	SLU	0.67	-817	9	SLU	0.67
-816	9	SLU	0.66	-815	9	SLU	0.65	-814	9	SLU	0.66	-813	9	SLU	0.68
-812	9	SLU	0.71	-811	9	SLU	0.74	-810	9	SLU	0.75	-809	9	SLU	0.72
-808	9	SLU	0.68	-807	9	SLU	0.64	-806	9	SLU	0.62	-805	9	SLU	0.60
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-140	9	SLU	0.52	-139	9	SLU	0.49	-138	9	SLU	0.49	-137	9	SLU	0.52
-136	9	SLU	0.55	-135	9	SLU	0.55	-134	9	SLU	0.54	-133	9	SLU	0.54
-132	9	SLU	0.57	-131	9	SLU	0.63	-130	9	SLU	0.67	-129	9	SLU	0.69
-128	9	SLU	0.69	-127	9	SLU	0.70	-126	9	SLU	0.72	-125	9	SLU	0.75
-124	9	SLU	0.78	-123	9	SLU	0.79	-122	9	SLU	0.65	-121	9	SLU	0.57
-120	9	SLU	0.52	-119	9	SLU	0.49	-118	9	SLU	0.50	-117	9	SLU	0.54
-116	9	SLU	0.57	-115	9	SLU	0.55	-114	9	SLU	0.55	-113	9	SLU	0.59
-112	9	SLU	0.67	-111	9	SLU	0.77	-110	9	SLU	0.77	-109	9	SLU	0.77
-108	9	SLU	0.77	-107	9	SLU	0.78	-106	9	SLU	0.78	-105	9	SLU	0.64
-104	9	SLU	0.63	-103	9	SLU	0.57	-102	9	SLU	0.52	-101	9	SLU	0.49
-100	9	SLU	0.50	-99	9	SLU	0.54	-98	9	SLU	0.58	-97	9	SLU	0.57
-96	9	SLU	0.55	-95	9	SLU	0.55	-94	9	SLU	0.59	-93	9	SLU	0.67
-92	9	SLU	0.75	-91	9	SLU	0.78	-90	9	SLU	0.79	-89	9	SLU	0.79
-88	9	SLU	0.79	-87	9	SLU	0.78	-86	9	SLU	0.78	-85	9	SLU	0.78
-84	9	SLU	0.63	-83	9	SLU	0.62	-82	9	SLU	0.56	-81	9	SLU	0.51
-80	9	SLU	0.49	-79	9	SLU	0.49	-78	9	SLU	0.52	-77	9	SLU	0.54
-76	9	SLU	0.54	-75	9	SLU	0.54	-74	9	SLU	0.54	-73	9	SLU	0.58
-72	9	SLU	0.64	-71	9	SLU	0.72	-70	9	SLU	0.62	-69	9	SLU	0.60

-68	9	SLU	0.55	-67	9	SLU	0.51	-66	9	SLU	0.49	-65	9	SLU	0.48
-64	9	SLU	0.49	-63	9	SLU	0.50	-62	9	SLU	0.50	-61	9	SLU	0.51
-60	9	SLU	0.52	-59	9	SLU	0.55	-58	9	SLU	0.59	-57	9	SLU	0.64
-56	9	SLU	0.60	-55	9	SLU	0.59	-54	9	SLU	0.55	-53	9	SLU	0.52
-52	9	SLU	0.50	-51	9	SLU	0.49	-50	9	SLU	0.49	-49	9	SLU	0.49
-48	9	SLU	0.50	-47	9	SLU	0.50	-46	9	SLU	0.51	-45	9	SLU	0.53
-44	9	SLU	0.55	-43	9	SLU	0.58	-42	9	SLU	0.58	-41	9	SLU	0.58
-40	9	SLU	0.56	-39	9	SLU	0.54	-38	9	SLU	0.52	-37	9	SLU	0.52
-36	9	SLU	0.52	-35	9	SLU	0.52	-34	9	SLU	0.52	-33	9	SLU	0.52
-32	9	SLU	0.53	-31	9	SLU	0.53	-30	9	SLU	0.54	-29	9	SLU	0.56
-28	9	SLU	0.57	-27	9	SLU	0.57	-26	9	SLU	0.57	-25	9	SLU	0.56
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-20	9	SLU	0.56	-19	9	SLU	0.56	-18	9	SLU	0.56	-17	9	SLU	0.56
-16	9	SLU	0.56	-15	9	SLU	0.56	-14	9	SLU	0.57	-13	9	SLU	0.57
-12	9	SLU	0.57	-11	9	SLU	0.57	-10	9	SLU	0.57	-9	9	SLU	0.57
-8	9	SLU	0.57	-7	9	SLU	0.57	-6	9	SLU	0.57	-5	9	SLU	0.57
-4	9	SLU	0.57	-3	9	SLU	0.56	-2	9	SLU	0.56	-1	9	SLU	0.56
1	9	SLU	0.78	2	9	SLU	0.75	3	9	SLU	0.59	4	9	SLU	0.63
5	9	SLU	0.81	6	9	SLU	0.61	7	9	SLU	0.60	8	9	SLU	0.70
9	9	SLU	0.83	10	9	SLU	0.60	11	9	SLU	0.60	12	9	SLU	0.77
13	9	SLU	0.86	14	9	SLU	0.59	15	9	SLU	0.59	16	9	SLU	0.82
17	9	SLU	0.88	18	9	SLU	0.58	19	9	SLU	0.59	20	9	SLU	0.73
21	9	SLU	0.90	22	9	SLU	0.61	23	9	SLU	0.93	24	9	SLU	0.85
-900	10	SLE R	0.52	-899	10	SLE R	0.53	-898	10	SLE R	0.53	-897	10	SLE R	0.54
-896	10	SLE R	0.55	-895	10	SLE R	0.56	-894	10	SLE R	0.56	-893	10	SLE R	0.57
-892	10	SLE R	0.58	-891	10	SLE R	0.59	-890	10	SLE R	0.60	-889	10	SLE R	0.61
-888	10	SLE R	0.62	-887	10	SLE R	0.63	-886	10	SLE R	0.64	-885	10	SLE R	0.65
-884	10	SLE R	0.65	-883	10	SLE R	0.66	-882	10	SLE R	0.66	-881	10	SLE R	0.67
-880	10	SLE R	0.67	-879	10	SLE R	0.52	-878	10	SLE R	0.52	-877	10	SLE R	0.53
-876	10	SLE R	0.53	-875	10	SLE R	0.54	-874	10	SLE R	0.55	-873	10	SLE R	0.56
-872	10	SLE R	0.57	-871	10	SLE R	0.57	-870	10	SLE R	0.58	-869	10	SLE R	0.59
-868	10	SLE R	0.60	-867	10	SLE R	0.61	-866	10	SLE R	0.62	-865	10	SLE R	0.63
-864	10	SLE R	0.64	-863	10	SLE R	0.65	-862	10	SLE R	0.66	-861	10	SLE R	0.67
-860	10	SLE R	0.52	-859	10	SLE R	0.51	-858	10	SLE R	0.51	-857	10	SLE R	0.51
-856	10	SLE R	0.52	-855	10	SLE R	0.53	-854	10	SLE R	0.54	-853	10	SLE R	0.56
-852	10	SLE R	0.56	-851	10	SLE R	0.56	-850	10	SLE R	0.55	-849	10	SLE R	0.55
-848	10	SLE R	0.55	-847	10	SLE R	0.55	-846	10	SLE R	0.55	-845	10	SLE R	0.56
-844	10	SLE R	0.58	-843	10	SLE R	0.60	-842	10	SLE R	0.63	-841	10	SLE R	0.66
-840	10	SLE R	0.67	-839	10	SLE R	0.51	-838	10	SLE R	0.51	-837	10	SLE R	0.50
-836	10	SLE R	0.49	-835	10	SLE R	0.50	-834	10	SLE R	0.51	-833	10	SLE R	0.53
-832	10	SLE R	0.55	-831	10	SLE R	0.56	-830	10	SLE R	0.55	-829	10	SLE R	0.52
-828	10	SLE R	0.51	-827	10	SLE R	0.50	-826	10	SLE R	0.49	-825	10	SLE R	0.49
-824	10	SLE R	0.50	-823	10	SLE R	0.52	-822	10	SLE R	0.55	-821	10	SLE R	0.60
-820	10	SLE R	0.66	-819	10	SLE R	0.67	-818	10	SLE R	0.50	-817	10	SLE R	0.50
-816	10	SLE R	0.49	-815	10	SLE R	0.48	-814	10	SLE R	0.49	-813	10	SLE R	0.50
-812	10	SLE R	0.52	-811	10	SLE R	0.54	-810	10	SLE R	0.55	-809	10	SLE R	0.53
-808	10	SLE R	0.50	-807	10	SLE R	0.47	-806	10	SLE R	0.45	-805	10	SLE R	0.44
-804	10	SLE R	0.43	-803	10	SLE R	0.44	-802	10	SLE R	0.46	-801	10	SLE R	0.51
-800	10	SLE R	0.58	-799	10	SLE R	0.65	-798	10	SLE R	0.67	-797	10	SLE R	0.50
-796	10	SLE R	0.50	-795	10	SLE R	0.49	-794	10	SLE R	0.49	-793	10	SLE R	0.49
-792	10	SLE R	0.51	-791	10	SLE R	0.53	-790	10	SLE R	0.54	-789	10	SLE R	0.54

-788	10	SLE R	0.52	-787	10	SLE R	0.48	-786	10	SLE R	0.45	-785	10	SLE R	0.43
-784	10	SLE R	0.42	-783	10	SLE R	0.41	-782	10	SLE R	0.41	-781	10	SLE R	0.43
-780	10	SLE R	0.48	-779	10	SLE R	0.56	-778	10	SLE R	0.65	-777	10	SLE R	0.67
-776	10	SLE R	0.50	-775	10	SLE R	0.50	-774	10	SLE R	0.49	-773	10	SLE R	0.49
-772	10	SLE R	0.50	-771	10	SLE R	0.51	-770	10	SLE R	0.53	-769	10	SLE R	0.54
-768	10	SLE R	0.54	-767	10	SLE R	0.51	-766	10	SLE R	0.47	-765	10	SLE R	0.44
-764	10	SLE R	0.43	-763	10	SLE R	0.42	-762	10	SLE R	0.41	-761	10	SLE R	0.40
-760	10	SLE R	0.42	-759	10	SLE R	0.48	-758	10	SLE R	0.56	-757	10	SLE R	0.65
-756	10	SLE R	0.67	-755	10	SLE R	0.49	-754	10	SLE R	0.49	-753	10	SLE R	0.49
-752	10	SLE R	0.50	-751	10	SLE R	0.51	-750	10	SLE R	0.52	-749	10	SLE R	0.53
-748	10	SLE R	0.54	-747	10	SLE R	0.53	-746	10	SLE R	0.50	-745	10	SLE R	0.46
-744	10	SLE R	0.44	-743	10	SLE R	0.43	-742	10	SLE R	0.43	-741	10	SLE R	0.41
-740	10	SLE R	0.40	-739	10	SLE R	0.42	-738	10	SLE R	0.47	-737	10	SLE R	0.55
-736	10	SLE R	0.65	-735	10	SLE R	0.67	-734	10	SLE R	0.49	-733	10	SLE R	0.49
-732	10	SLE R	0.49	-731	10	SLE R	0.50	-730	10	SLE R	0.50	-729	10	SLE R	0.51
-728	10	SLE R	0.52	-727	10	SLE R	0.52	-726	10	SLE R	0.52	-725	10	SLE R	0.49
-724	10	SLE R	0.45	-723	10	SLE R	0.43	-722	10	SLE R	0.43	-721	10	SLE R	0.41
-720	10	SLE R	0.40	-719	10	SLE R	0.41	-718	10	SLE R	0.46	-717	10	SLE R	0.55
-716	10	SLE R	0.67	-715	10	SLE R	0.47	-714	10	SLE R	0.47	-713	10	SLE R	0.47
-712	10	SLE R	0.47	-711	10	SLE R	0.47	-710	10	SLE R	0.48	-709	10	SLE R	0.48
-708	10	SLE R	0.48	-707	10	SLE R	0.48	-706	10	SLE R	0.45	-705	10	SLE R	0.42
-704	10	SLE R	0.41	-703	10	SLE R	0.41	-702	10	SLE R	0.41	-701	10	SLE R	0.39
-700	10	SLE R	0.38	-699	10	SLE R	0.40	-698	10	SLE R	0.46	-697	10	SLE R	0.54
-696	10	SLE R	0.64	-695	10	SLE R	0.66	-694	10	SLE R	0.45	-693	10	SLE R	0.45
-692	10	SLE R	0.44	-691	10	SLE R	0.43	-690	10	SLE R	0.43	-689	10	SLE R	0.44
-688	10	SLE R	0.44	-687	10	SLE R	0.44	-686	10	SLE R	0.43	-685	10	SLE R	0.41
-684	10	SLE R	0.40	-683	10	SLE R	0.38	-682	10	SLE R	0.38	-681	10	SLE R	0.37
-680	10	SLE R	0.37	-679	10	SLE R	0.37	-678	10	SLE R	0.40	-677	10	SLE R	0.45
-676	10	SLE R	0.54	-675	10	SLE R	0.64	-674	10	SLE R	0.66	-673	10	SLE R	0.45
-672	10	SLE R	0.44	-671	10	SLE R	0.42	-670	10	SLE R	0.41	-669	10	SLE R	0.40
-668	10	SLE R	0.40	-667	10	SLE R	0.40	-666	10	SLE R	0.40	-665	10	SLE R	0.40
-664	10	SLE R	0.39	-663	10	SLE R	0.38	-662	10	SLE R	0.37	-661	10	SLE R	0.36
-660	10	SLE R	0.36	-659	10	SLE R	0.36	-658	10	SLE R	0.37	-657	10	SLE R	0.39
-656	10	SLE R	0.45	-655	10	SLE R	0.54	-654	10	SLE R	0.63	-653	10	SLE R	0.66
-652	10	SLE R	0.47	-651	10	SLE R	0.46	-650	10	SLE R	0.43	-649	10	SLE R	0.40
-648	10	SLE R	0.38	-647	10	SLE R	0.38	-646	10	SLE R	0.39	-645	10	SLE R	0.39
-644	10	SLE R	0.39	-643	10	SLE R	0.38	-642	10	SLE R	0.37	-641	10	SLE R	0.37
-640	10	SLE R	0.37	-639	10	SLE R	0.37	-638	10	SLE R	0.37	-637	10	SLE R	0.37
-636	10	SLE R	0.40	-635	10	SLE R	0.45	-634	10	SLE R	0.53	-633	10	SLE R	0.63
-632	10	SLE R	0.65	-631	10	SLE R	0.51	-630	10	SLE R	0.50	-629	10	SLE R	0.45
-628	10	SLE R	0.40	-627	10	SLE R	0.38	-626	10	SLE R	0.38	-625	10	SLE R	0.40
-624	10	SLE R	0.41	-623	10	SLE R	0.40	-622	10	SLE R	0.39	-621	10	SLE R	0.37
-620	10	SLE R	0.37	-619	10	SLE R	0.39	-618	10	SLE R	0.39	-617	10	SLE R	0.39
-616	10	SLE R	0.38	-615	10	SLE R	0.40	-614	10	SLE R	0.45	-613	10	SLE R	0.54
-612	10	SLE R	0.63	-611	10	SLE R	0.65	-610	10	SLE R	0.54	-609	10	SLE R	0.46
-608	10	SLE R	0.41	-607	10	SLE R	0.38	-606	10	SLE R	0.38	-605	10	SLE R	0.40
-604	10	SLE R	0.41	-603	10	SLE R	0.39	-602	10	SLE R	0.38	-601	10	SLE R	0.38
-600	10	SLE R	0.40	-599	10	SLE R	0.40	-598	10	SLE R	0.39	-597	10	SLE R	0.40
-596	10	SLE R	0.46	-595	10	SLE R	0.54	-594	10	SLE R	0.65	-593	10	SLE R	0.53
-592	10	SLE R	0.52	-591	10	SLE R	0.46	-590	10	SLE R	0.41	-589	10	SLE R	0.37
-588	10	SLE R	0.37	-587	10	SLE R	0.39	-586	10	SLE R	0.40	-585	10	SLE R	0.40

-584	10	SLE R	0.39	-583	10	SLE R	0.38	-582	10	SLE R	0.38	-581	10	SLE R	0.40
-580	10	SLE R	0.40	-579	10	SLE R	0.40	-578	10	SLE R	0.39	-577	10	SLE R	0.41
-576	10	SLE R	0.46	-575	10	SLE R	0.53	-574	10	SLE R	0.63	-573	10	SLE R	0.65
-572	10	SLE R	0.52	-571	10	SLE R	0.51	-570	10	SLE R	0.45	-569	10	SLE R	0.41
-568	10	SLE R	0.37	-567	10	SLE R	0.37	-566	10	SLE R	0.38	-565	10	SLE R	0.39
-564	10	SLE R	0.39	-563	10	SLE R	0.38	-562	10	SLE R	0.38	-561	10	SLE R	0.38
-560	10	SLE R	0.38	-559	10	SLE R	0.39	-558	10	SLE R	0.38	-557	10	SLE R	0.39
-556	10	SLE R	0.41	-555	10	SLE R	0.45	-554	10	SLE R	0.53	-553	10	SLE R	0.62
-552	10	SLE R	0.64	-551	10	SLE R	0.54	-550	10	SLE R	0.52	-549	10	SLE R	0.46
-548	10	SLE R	0.41	-547	10	SLE R	0.38	-546	10	SLE R	0.37	-545	10	SLE R	0.38
-544	10	SLE R	0.39	-543	10	SLE R	0.39	-542	10	SLE R	0.38	-541	10	SLE R	0.38
-540	10	SLE R	0.38	-539	10	SLE R	0.39	-538	10	SLE R	0.39	-537	10	SLE R	0.39
-536	10	SLE R	0.39	-535	10	SLE R	0.41	-534	10	SLE R	0.45	-533	10	SLE R	0.53
-532	10	SLE R	0.62	-531	10	SLE R	0.64	-530	10	SLE R	0.58	-529	10	SLE R	0.56
-528	10	SLE R	0.49	-527	10	SLE R	0.43	-526	10	SLE R	0.39	-525	10	SLE R	0.38
-524	10	SLE R	0.40	-523	10	SLE R	0.41	-522	10	SLE R	0.41	-521	10	SLE R	0.39
-520	10	SLE R	0.38	-519	10	SLE R	0.38	-518	10	SLE R	0.40	-517	10	SLE R	0.41
-516	10	SLE R	0.40	-515	10	SLE R	0.39	-514	10	SLE R	0.41	-513	10	SLE R	0.45
-512	10	SLE R	0.53	-511	10	SLE R	0.62	-510	10	SLE R	0.64	-509	10	SLE R	0.61
-508	10	SLE R	0.51	-507	10	SLE R	0.44	-506	10	SLE R	0.39	-505	10	SLE R	0.38
-504	10	SLE R	0.40	-503	10	SLE R	0.41	-502	10	SLE R	0.39	-501	10	SLE R	0.38
-500	10	SLE R	0.38	-499	10	SLE R	0.40	-498	10	SLE R	0.41	-497	10	SLE R	0.39
-496	10	SLE R	0.40	-495	10	SLE R	0.45	-494	10	SLE R	0.53	-493	10	SLE R	0.63
-492	10	SLE R	0.61	-491	10	SLE R	0.59	-490	10	SLE R	0.51	-489	10	SLE R	0.44
-488	10	SLE R	0.39	-487	10	SLE R	0.38	-486	10	SLE R	0.39	-485	10	SLE R	0.39
-484	10	SLE R	0.39	-483	10	SLE R	0.38	-482	10	SLE R	0.36	-481	10	SLE R	0.37
-480	10	SLE R	0.38	-479	10	SLE R	0.39	-478	10	SLE R	0.39	-477	10	SLE R	0.38
-476	10	SLE R	0.40	-475	10	SLE R	0.45	-474	10	SLE R	0.52	-473	10	SLE R	0.61
-472	10	SLE R	0.63	-471	10	SLE R	0.60	-470	10	SLE R	0.58	-469	10	SLE R	0.50
-468	10	SLE R	0.44	-467	10	SLE R	0.39	-466	10	SLE R	0.36	-465	10	SLE R	0.36
-464	10	SLE R	0.36	-463	10	SLE R	0.36	-462	10	SLE R	0.35	-461	10	SLE R	0.35
-460	10	SLE R	0.35	-459	10	SLE R	0.36	-458	10	SLE R	0.36	-457	10	SLE R	0.36
-456	10	SLE R	0.37	-455	10	SLE R	0.39	-454	10	SLE R	0.44	-453	10	SLE R	0.52
-452	10	SLE R	0.61	-451	10	SLE R	0.63	-450	10	SLE R	0.59	-449	10	SLE R	0.57
-448	10	SLE R	0.50	-447	10	SLE R	0.43	-446	10	SLE R	0.38	-445	10	SLE R	0.36
-444	10	SLE R	0.35	-443	10	SLE R	0.35	-442	10	SLE R	0.35	-441	10	SLE R	0.35
-440	10	SLE R	0.34	-439	10	SLE R	0.34	-438	10	SLE R	0.35	-437	10	SLE R	0.35
-436	10	SLE R	0.35	-435	10	SLE R	0.36	-434	10	SLE R	0.39	-433	10	SLE R	0.44
-432	10	SLE R	0.51	-431	10	SLE R	0.60	-430	10	SLE R	0.62	-429	10	SLE R	0.58
-428	10	SLE R	0.56	-427	10	SLE R	0.49	-426	10	SLE R	0.43	-425	10	SLE R	0.39
-424	10	SLE R	0.37	-423	10	SLE R	0.36	-422	10	SLE R	0.37	-421	10	SLE R	0.36
-420	10	SLE R	0.36	-419	10	SLE R	0.35	-418	10	SLE R	0.36	-417	10	SLE R	0.36
-416	10	SLE R	0.36	-415	10	SLE R	0.36	-414	10	SLE R	0.37	-413	10	SLE R	0.39
-412	10	SLE R	0.44	-411	10	SLE R	0.51	-410	10	SLE R	0.60	-409	10	SLE R	0.62
-408	10	SLE R	0.57	-407	10	SLE R	0.56	-406	10	SLE R	0.49	-405	10	SLE R	0.43
-404	10	SLE R	0.39	-403	10	SLE R	0.38	-402	10	SLE R	0.39	-401	10	SLE R	0.40
-400	10	SLE R	0.40	-399	10	SLE R	0.38	-398	10	SLE R	0.37	-397	10	SLE R	0.38
-396	10	SLE R	0.39	-395	10	SLE R	0.40	-394	10	SLE R	0.39	-393	10	SLE R	0.38
-392	10	SLE R	0.40	-391	10	SLE R	0.44	-390	10	SLE R	0.52	-389	10	SLE R	0.60
-388	10	SLE R	0.62	-387	10	SLE R	0.56	-386	10	SLE R	0.49	-385	10	SLE R	0.43
-384	10	SLE R	0.39	-383	10	SLE R	0.39	-382	10	SLE R	0.41	-381	10	SLE R	0.42

-380	10	SLE R	0.39	-379	10	SLE R	0.38	-378	10	SLE R	0.39	-377	10	SLE R	0.41
-376	10	SLE R	0.41	-375	10	SLE R	0.39	-374	10	SLE R	0.40	-373	10	SLE R	0.45
-372	10	SLE R	0.52	-371	10	SLE R	0.61	-370	10	SLE R	0.56	-369	10	SLE R	0.54
-368	10	SLE R	0.48	-367	10	SLE R	0.43	-366	10	SLE R	0.39	-365	10	SLE R	0.38
-364	10	SLE R	0.39	-363	10	SLE R	0.41	-362	10	SLE R	0.40	-361	10	SLE R	0.39
-360	10	SLE R	0.37	-359	10	SLE R	0.38	-358	10	SLE R	0.40	-357	10	SLE R	0.41
-356	10	SLE R	0.40	-355	10	SLE R	0.39	-354	10	SLE R	0.40	-353	10	SLE R	0.44
-352	10	SLE R	0.51	-351	10	SLE R	0.59	-350	10	SLE R	0.61	-349	10	SLE R	0.55
-348	10	SLE R	0.53	-347	10	SLE R	0.47	-346	10	SLE R	0.42	-345	10	SLE R	0.38
-344	10	SLE R	0.37	-343	10	SLE R	0.37	-342	10	SLE R	0.37	-341	10	SLE R	0.37
-340	10	SLE R	0.37	-339	10	SLE R	0.36	-338	10	SLE R	0.36	-337	10	SLE R	0.37
-336	10	SLE R	0.37	-335	10	SLE R	0.37	-334	10	SLE R	0.37	-333	10	SLE R	0.39
-332	10	SLE R	0.44	-331	10	SLE R	0.51	-330	10	SLE R	0.59	-329	10	SLE R	0.61
-328	10	SLE R	0.54	-327	10	SLE R	0.53	-326	10	SLE R	0.47	-325	10	SLE R	0.41
-324	10	SLE R	0.37	-323	10	SLE R	0.36	-322	10	SLE R	0.36	-321	10	SLE R	0.36
-320	10	SLE R	0.36	-319	10	SLE R	0.36	-318	10	SLE R	0.36	-317	10	SLE R	0.36
-316	10	SLE R	0.36	-315	10	SLE R	0.36	-314	10	SLE R	0.36	-313	10	SLE R	0.37
-312	10	SLE R	0.39	-311	10	SLE R	0.43	-310	10	SLE R	0.50	-309	10	SLE R	0.58
-308	10	SLE R	0.60	-307	10	SLE R	0.54	-306	10	SLE R	0.52	-305	10	SLE R	0.46
-304	10	SLE R	0.41	-303	10	SLE R	0.38	-302	10	SLE R	0.36	-301	10	SLE R	0.37
-300	10	SLE R	0.37	-299	10	SLE R	0.37	-298	10	SLE R	0.37	-297	10	SLE R	0.36
-296	10	SLE R	0.37	-295	10	SLE R	0.37	-294	10	SLE R	0.37	-293	10	SLE R	0.37
-292	10	SLE R	0.37	-291	10	SLE R	0.39	-290	10	SLE R	0.43	-289	10	SLE R	0.50
-288	10	SLE R	0.58	-287	10	SLE R	0.60	-286	10	SLE R	0.53	-285	10	SLE R	0.51
-284	10	SLE R	0.46	-283	10	SLE R	0.41	-282	10	SLE R	0.38	-281	10	SLE R	0.37
-280	10	SLE R	0.39	-279	10	SLE R	0.41	-278	10	SLE R	0.40	-277	10	SLE R	0.39
-276	10	SLE R	0.38	-275	10	SLE R	0.38	-274	10	SLE R	0.40	-273	10	SLE R	0.41
-272	10	SLE R	0.40	-271	10	SLE R	0.39	-270	10	SLE R	0.40	-269	10	SLE R	0.44
-268	10	SLE R	0.50	-267	10	SLE R	0.58	-266	10	SLE R	0.60	-265	10	SLE R	0.52
-264	10	SLE R	0.46	-263	10	SLE R	0.41	-262	10	SLE R	0.38	-261	10	SLE R	0.38
-260	10	SLE R	0.40	-259	10	SLE R	0.42	-258	10	SLE R	0.40	-257	10	SLE R	0.38
-256	10	SLE R	0.39	-255	10	SLE R	0.42	-254	10	SLE R	0.42	-253	10	SLE R	0.39
-252	10	SLE R	0.40	-251	10	SLE R	0.44	-250	10	SLE R	0.50	-249	10	SLE R	0.59
-248	10	SLE R	0.51	-247	10	SLE R	0.50	-246	10	SLE R	0.45	-245	10	SLE R	0.40
-244	10	SLE R	0.37	-243	10	SLE R	0.37	-242	10	SLE R	0.39	-241	10	SLE R	0.40
-240	10	SLE R	0.40	-239	10	SLE R	0.38	-238	10	SLE R	0.37	-237	10	SLE R	0.38
-236	10	SLE R	0.40	-235	10	SLE R	0.41	-234	10	SLE R	0.40	-233	10	SLE R	0.39
-232	10	SLE R	0.40	-231	10	SLE R	0.44	-230	10	SLE R	0.50	-229	10	SLE R	0.57
-228	10	SLE R	0.59	-227	10	SLE R	0.51	-226	10	SLE R	0.49	-225	10	SLE R	0.44
-224	10	SLE R	0.39	-223	10	SLE R	0.36	-222	10	SLE R	0.35	-221	10	SLE R	0.36
-220	10	SLE R	0.37	-219	10	SLE R	0.37	-218	10	SLE R	0.36	-217	10	SLE R	0.36
-216	10	SLE R	0.36	-215	10	SLE R	0.38	-214	10	SLE R	0.38	-213	10	SLE R	0.38
-212	10	SLE R	0.38	-211	10	SLE R	0.40	-210	10	SLE R	0.44	-209	10	SLE R	0.50
-208	10	SLE R	0.57	-207	10	SLE R	0.59	-206	10	SLE R	0.50	-205	10	SLE R	0.48
-204	10	SLE R	0.43	-203	10	SLE R	0.38	-202	10	SLE R	0.35	-201	10	SLE R	0.34
-200	10	SLE R	0.34	-199	10	SLE R	0.34	-198	10	SLE R	0.34	-197	10	SLE R	0.35
-196	10	SLE R	0.35	-195	10	SLE R	0.35	-194	10	SLE R	0.36	-193	10	SLE R	0.37
-192	10	SLE R	0.37	-191	10	SLE R	0.38	-190	10	SLE R	0.40	-189	10	SLE R	0.44
-188	10	SLE R	0.50	-187	10	SLE R	0.57	-186	10	SLE R	0.58	-185	10	SLE R	0.49
-184	10	SLE R	0.48	-183	10	SLE R	0.42	-182	10	SLE R	0.38	-181	10	SLE R	0.35
-180	10	SLE R	0.33	-179	10	SLE R	0.34	-178	10	SLE R	0.34	-177	10	SLE R	0.34

-176	10	SLE R	0.35	-175	10	SLE R	0.35	-174	10	SLE R	0.36	-173	10	SLE R	0.37
-172	10	SLE R	0.38	-171	10	SLE R	0.39	-170	10	SLE R	0.40	-169	10	SLE R	0.42
-168	10	SLE R	0.45	-167	10	SLE R	0.50	-166	10	SLE R	0.56	-165	10	SLE R	0.58
-164	10	SLE R	0.48	-163	10	SLE R	0.47	-162	10	SLE R	0.42	-161	10	SLE R	0.38
-160	10	SLE R	0.35	-159	10	SLE R	0.34	-158	10	SLE R	0.35	-157	10	SLE R	0.36
-156	10	SLE R	0.36	-155	10	SLE R	0.36	-154	10	SLE R	0.37	-153	10	SLE R	0.38
-152	10	SLE R	0.41	-151	10	SLE R	0.42	-150	10	SLE R	0.43	-149	10	SLE R	0.44
-148	10	SLE R	0.45	-147	10	SLE R	0.48	-146	10	SLE R	0.52	-145	10	SLE R	0.56
-144	10	SLE R	0.57	-143	10	SLE R	0.48	-142	10	SLE R	0.46	-141	10	SLE R	0.42
-140	10	SLE R	0.38	-139	10	SLE R	0.35	-138	10	SLE R	0.35	-137	10	SLE R	0.38
-136	10	SLE R	0.39	-135	10	SLE R	0.39	-134	10	SLE R	0.38	-133	10	SLE R	0.39
-132	10	SLE R	0.41	-131	10	SLE R	0.45	-130	10	SLE R	0.48	-129	10	SLE R	0.49
-128	10	SLE R	0.49	-127	10	SLE R	0.50	-126	10	SLE R	0.51	-125	10	SLE R	0.53
-124	10	SLE R	0.56	-123	10	SLE R	0.56	-122	10	SLE R	0.47	-121	10	SLE R	0.41
-120	10	SLE R	0.37	-119	10	SLE R	0.35	-118	10	SLE R	0.36	-117	10	SLE R	0.39
-116	10	SLE R	0.41	-115	10	SLE R	0.40	-114	10	SLE R	0.40	-113	10	SLE R	0.43
-112	10	SLE R	0.48	-111	10	SLE R	0.55	-110	10	SLE R	0.55	-109	10	SLE R	0.55
-108	10	SLE R	0.55	-107	10	SLE R	0.56	-106	10	SLE R	0.56	-105	10	SLE R	0.47
-104	10	SLE R	0.46	-103	10	SLE R	0.41	-102	10	SLE R	0.37	-101	10	SLE R	0.35
-100	10	SLE R	0.36	-99	10	SLE R	0.39	-98	10	SLE R	0.41	-97	10	SLE R	0.41
-96	10	SLE R	0.40	-95	10	SLE R	0.40	-94	10	SLE R	0.43	-93	10	SLE R	0.48
-92	10	SLE R	0.54	-91	10	SLE R	0.56	-90	10	SLE R	0.56	-89	10	SLE R	0.56
-88	10	SLE R	0.56	-87	10	SLE R	0.56	-86	10	SLE R	0.56	-85	10	SLE R	0.56
-84	10	SLE R	0.46	-83	10	SLE R	0.45	-82	10	SLE R	0.41	-81	10	SLE R	0.37
-80	10	SLE R	0.35	-79	10	SLE R	0.35	-78	10	SLE R	0.37	-77	10	SLE R	0.39
-76	10	SLE R	0.39	-75	10	SLE R	0.38	-74	10	SLE R	0.39	-73	10	SLE R	0.42
-72	10	SLE R	0.46	-71	10	SLE R	0.51	-70	10	SLE R	0.45	-69	10	SLE R	0.44
-68	10	SLE R	0.40	-67	10	SLE R	0.37	-66	10	SLE R	0.35	-65	10	SLE R	0.35
-64	10	SLE R	0.35	-63	10	SLE R	0.36	-62	10	SLE R	0.36	-61	10	SLE R	0.37
-60	10	SLE R	0.38	-59	10	SLE R	0.39	-58	10	SLE R	0.42	-57	10	SLE R	0.46
-56	10	SLE R	0.44	-55	10	SLE R	0.43	-54	10	SLE R	0.40	-53	10	SLE R	0.38
-52	10	SLE R	0.36	-51	10	SLE R	0.35	-50	10	SLE R	0.35	-49	10	SLE R	0.36
-48	10	SLE R	0.36	-47	10	SLE R	0.36	-46	10	SLE R	0.37	-45	10	SLE R	0.38
-44	10	SLE R	0.40	-43	10	SLE R	0.42	-42	10	SLE R	0.42	-41	10	SLE R	0.42
-40	10	SLE R	0.40	-39	10	SLE R	0.39	-38	10	SLE R	0.38	-37	10	SLE R	0.38
-36	10	SLE R	0.37	-35	10	SLE R	0.37	-34	10	SLE R	0.37	-33	10	SLE R	0.38
-32	10	SLE R	0.38	-31	10	SLE R	0.39	-30	10	SLE R	0.39	-29	10	SLE R	0.40
-28	10	SLE R	0.42	-27	10	SLE R	0.41	-26	10	SLE R	0.41	-25	10	SLE R	0.41
-24	10	SLE R	0.41	-23	10	SLE R	0.41	-22	10	SLE R	0.41	-21	10	SLE R	0.41
-20	10	SLE R	0.41	-19	10	SLE R	0.40	-18	10	SLE R	0.40	-17	10	SLE R	0.40
-16	10	SLE R	0.40	-15	10	SLE R	0.40	-14	10	SLE R	0.41	-13	10	SLE R	0.41
-12	10	SLE R	0.41	-11	10	SLE R	0.41	-10	10	SLE R	0.41	-9	10	SLE R	0.41
-8	10	SLE R	0.41	-7	10	SLE R	0.41	-6	10	SLE R	0.41	-5	10	SLE R	0.41
-4	10	SLE R	0.41	-3	10	SLE R	0.41	-2	10	SLE R	0.41	-1	10	SLE R	0.41
1	10	SLE R	0.56	2	10	SLE R	0.54	3	10	SLE R	0.42	4	10	SLE R	0.46
5	10	SLE R	0.58	6	10	SLE R	0.44	7	10	SLE R	0.43	8	10	SLE R	0.51
9	10	SLE R	0.60	10	10	SLE R	0.43	11	10	SLE R	0.43	12	10	SLE R	0.55
13	10	SLE R	0.61	14	10	SLE R	0.42	15	10	SLE R	0.43	16	10	SLE R	0.59
17	10	SLE R	0.63	18	10	SLE R	0.42	19	10	SLE R	0.42	20	10	SLE R	0.53
21	10	SLE R	0.65	22	10	SLE R	0.44	23	10	SLE R	0.67	24	10	SLE R	0.62

Verifiche e armature travi

Simbologia

Δ_{sm} = Distanza media tra le fessure
Φ_{eq} = Diametro equivalente delle barre
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
σ_c = Tensione nel calcestruzzo
σ_f inf = Tensione nel ferro - inferiore
σ_f sup = Tensione nel ferro - superiore
σ_s = Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
AfE I = Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfE S = Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE St. = Area di ferro effettiva della staffatura (d'anima per travi a T o L)
AfEP I = Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, inferiore
AfEP S = Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, superiore
B = Base
CC = Combinazione delle condizioni di carico elementari
c = momento fittizio in campata
a = momento fittizio agli appoggi
T = momento traslato per taglio
e = eccentricità aggiuntiva in caso di compressione o pressoflessione
TG = taglio da gerarchia delle resistenze
TGND = taglio non dissipativo limitante la gerarchia
TG (Li) = taglio da gerarchia delle resistenze, limite inferiore
TG (Ls) = taglio da gerarchia delle resistenze, limite superiore
Caso = Caso di verifica
Cf inf = Copriferro inferiore
Cf sup = Copriferro superiore
Cls = Tipo di calcestruzzo
El = Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
H = Altezza
K_2 = Coefficiente per distribuzione deformazioni
Lung. = Lunghezza del tratto di progettazione
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
My = Momento flettente intorno all'asse Y
Sez. = Numero della sezione
Sic. = Sicurezza
Staff. = Staffatura adottata
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tipo = Tipologia
R = Rettangolare
Tp = Tipo di acciaio
VRcd = Taglio ultimo lato calcestruzzo
VRsd = Taglio ultimo lato armatura
Vrdu = Taglio ultimo resistente
Vsdu = Taglio agente nella direzione del momento ultimo
Wk = Ampiezza caratteristica delle fessure
X = Coordinata progressiva rispetto al nodo iniziale
X0 = Coordinata progressiva (dal nodo iniziale) dell'inizio del tratto
X1 = Coordinata progressiva (dal nodo iniziale) della fine del tratto
Xg = Coordinata progressiva (dal primo nodo) in cui viene effettuato il progetto/verifica
bw = Larghezza membratura resistente al taglio
c = Ricoprimento dell'armatura
ctgθ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s = Distanza massima tra le barre

Travata n. 101

Nodi: 102 103 104

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>
2	R	60.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	9	SLU	1	500.00	29.15	16.59	29.15	16.59	-23630.60	-23932.30	1.013
2.19	9	SLU	1	281.25	15.71	16.59	15.71	16.59	14222.20	14249.30	1.002
5.00	9	SLU	1	0.00	34.56	28.02	34.56	28.02	-27850.30	-28217.40	1.013
5.60	9	SLU	2	465.00	34.56	28.02	34.56	28.02	-20628.40	-28217.40	1.368
7.65	9	SLU	2	259.55	15.71	16.59	15.71	16.59	13663.60	14249.30	1.043
9.75	9	SLU	2	50.00	15.71	16.59	15.71	16.59	-8463.01	-13557.60	1.602

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.00	10	SLE R	1	500.00	29.15	16.59	-16378.40	2704.13	-1371.60	159.37

0.00	12	SLE Q	1	500.00	29.15	16.59	-13968.90	2306.30	-1169.81	135.92
2.19	10	SLE R	1	281.25	15.71	16.59	9890.80	-832.55	2799.82	116.04
2.19	12	SLE Q	1	281.25	15.71	16.59	8510.19	-716.34	2409.01	99.84
5.00	10	SLE R	1	0.00	34.56	28.02	-19417.50	2720.24	-1364.96	159.08
5.00	12	SLE Q	1	0.00	34.56	28.02	-16814.40	2355.56	-1181.97	137.76
5.60	10	SLE R	2	465.00	34.56	28.02	-14388.00	2015.65	-1011.41	117.88
5.60	12	SLE Q	2	465.00	34.56	28.02	-12405.20	1737.86	-872.02	101.63
7.65	10	SLE R	2	259.55	15.71	16.59	9506.08	-800.16	2690.92	111.53
7.65	12	SLE Q	2	259.55	15.71	16.59	8180.02	-688.54	2315.54	95.97
9.75	10	SLE R	2	50.00	15.71	16.59	-5840.48	1742.57	-481.97	69.21
9.75	12	SLE Q	2	50.00	15.71	16.59	-4989.69	1488.73	-411.76	59.13

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>
11	0.00	12	SLE Q	1	2	500.00	-13968.90	40.40	54.89	0.50	19.33	105.03	29.15	365.39	2306.30	1.01	0.18
12	0.00	11	SLE F	1	2	500.00	-14519.20	40.40	54.89	0.50	19.33	105.03	29.15	365.39	2397.16	1.00	0.18
23	2.19	12	SLE Q	1	2	281.25	8510.19	40.67	98.00	0.50	18.86	127.75	16.59	408.32	2409.01	0.99	0.22
24	2.19	11	SLE F	1	2	281.25	8826.38	40.67	98.00	0.50	18.86	127.75	16.59	408.32	2498.51	0.95	0.21
35	5.00	12	SLE Q	1	2	0.00	-16814.40	40.00	49.40	0.50	20.00	101.20	34.56	366.35	2355.56	1.05	0.18
36	5.00	11	SLE F	1	2	0.00	-17414.10	40.00	49.40	0.50	20.00	101.20	34.56	366.35	2439.58	1.04	0.18
47	5.60	12	SLE Q	2	2	465.00	-12405.20	40.00	49.40	0.50	20.00	101.20	34.56	366.35	1737.86	0.75	0.13
48	5.60	11	SLE F	2	2	465.00	-12857.20	40.00	49.40	0.50	20.00	101.20	34.56	366.35	1801.19	0.73	0.13
59	7.65	12	SLE Q	2	2	259.55	8180.02	40.67	98.00	0.50	18.86	127.75	16.59	408.32	2315.54	0.95	0.21
60	7.65	11	SLE F	2	2	259.55	8484.52	40.67	98.00	0.50	18.86	127.75	16.59	408.32	2401.74	0.90	0.20
72	9.75	12	SLE Q	2	2	50.00	-4989.69	40.00	123.50	0.50	20.00	132.63	15.71	413.34	1488.73	0.54	0.12
73	9.75	11	SLE F	2	2	50.00	-5186.01	40.00	123.50	0.50	20.00	132.63	15.71	413.34	1547.30	0.47	0.11

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.00	0.86	0.86	ø8/ 6 2 br.	16.76	0.60	30068.80	2.50	36879.60	40505.40	36879.60	1.227
9 SLU	0.86	4.25	3.39	ø10/15 2 br.	10.47	0.60	22475.80	2.50	23049.70	40505.40	23049.70	1.026
9 SLU	4.25	5.00	0.75	ø8/ 6 2 br.	16.76	0.60	31756.70	2.50	36879.60	40505.40	36879.60	1.161
9 SLU	5.60	6.11	0.51	ø8/ 6 2 br.	16.76	0.60	28589.00	2.50	36879.60	40505.40	36879.60	1.290
9 SLU	6.11	9.45	3.34	ø10/15 2 br.	10.47	0.60	22265.90	2.50	23049.70	40505.40	23049.70	1.035
9 SLU	9.45	9.75	0.30	ø8/ 6 2 br.	16.76	0.60	22726.20	2.50	36879.60	40505.40	36879.60	1.623

Travata n. 102

Nodi: 105 106 107 108

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	9	SLU	1	475.00	11.44	14.58	11.44	14.58	-7055.48	-9994.16	1.417
2.11	9	SLU	1	313.50	11.44	14.58	11.44	14.58	11673.80	12465.00	1.068
4.75	9	SLU	1	50.00	27.14	17.72	27.14	17.72	-18661.60	-22169.90	1.188
5.25	9	SLU	2	500.00	27.14	17.72	27.14	17.72	-21802.40	-22169.90	1.017
7.70	9	SLU	2	255.21	15.71	25.13	15.71	25.13	11409.20	20613.10	1.807
10.25	9	SLU	2	0.00	27.14	17.72	27.14	17.72	-21417.40	-22169.90	1.035
10.75	9	SLU	3	475.00	27.14	17.72	27.14	17.72	-18376.50	-22169.90	1.206
12.88	9	SLU	3	262.50	11.44	14.58	11.44	14.58	11609.10	12465.00	1.074
15.00	9	SLU	3	50.00	11.44	14.58	11.44	14.58	-7383.29	-9994.16	1.354

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	475.00	11.44	14.58	-4929.53	2010.38	-473.77	72.99
0.50	12	SLE Q	1	475.00	11.44	14.58	-3952.86	1612.08	-379.90	58.53
2.11	10	SLE R	1	313.50	11.44	14.58	8202.61	-861.65	2646.46	115.91
2.11	12	SLE Q	1	313.50	11.44	14.58	6867.78	-721.44	2215.80	97.05
4.75	10	SLE R	1	50.00	27.14	17.72	-13137.10	2339.53	-1223.59	140.96
4.75	12	SLE Q	1	50.00	27.14	17.72	-11148.40	1985.36	-1038.36	119.62
5.25	10	SLE R	2	500.00	27.14	17.72	-15294.40	2723.71	-1424.52	164.10
5.25	12	SLE Q	2	500.00	27.14	17.72	-12751.60	2270.86	-1187.68	136.82
7.70	10	SLE R	2	255.21	15.71	25.13	8013.97	-776.01	1536.68	90.28
7.70	12	SLE Q	2	255.21	15.71	25.13	6692.24	-648.03	1283.24	75.39
10.25	10	SLE R	2	0.00	27.14	17.72	-15064.70	2682.80	-1403.12	161.64
10.25	12	SLE Q	2	0.00	27.14	17.72	-12604.30	2244.64	-1173.96	135.24
10.75	10	SLE R	3	475.00	27.14	17.72	-12922.30	2301.27	-1203.58	138.65
10.75	12	SLE Q	3	475.00	27.14	17.72	-10909.60	1942.84	-1016.12	117.06
12.88	10	SLE R	3	262.50	11.44	14.58	8157.49	-856.91	2631.90	115.28
12.88	12	SLE Q	3	262.50	11.44	14.58	6824.78	-716.92	2201.92	96.44
15.00	10	SLE R	3	50.00	11.44	14.58	-5170.35	2108.60	-496.92	76.55
15.00	12	SLE Q	3	50.00	11.44	14.58	-4206.69	1715.59	-404.30	62.28

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>
11	0.50	12	SLE Q	1	4	475.00	-3952.86	40.50	131.33	0.50	19.16	140.15	11.44	353.09	1612.08	0.57	0.14
12	0.50	11	SLE F	1	4	475.00	-4198.10	40.50	131.33	0.50	19.16	140.15	11.44	353.09	1712.09	0.51	0.12
23	2.11	12	SLE Q	1	4	313.50	6867.78	40.40	97.50	0.50	19.33	125.20	14.58	334.79	2215.80	0.91	0.19
24	2.11	11	SLE F	1	4	313.50	7201.62	40.40	97.50	0.50	19.33	125.20	14.58	334.79	2323.50	0.88	0.19
35	4.75	12	SLE Q	1	4	50.00	-11148.40	40.22	49.25	0.50	19.64	102.31	27.14	302.20	1985.36	0.86	0.15
36	4.75	11	SLE F	1	4	50.00	-11643.60	40.22	49.25	0.50	19.64	102.31	27.14	302.20	2073.56	0.86	0.15
47	5.25	12	SLE Q	2	4	500.00	-12751.60	40.22	49.25	0.50	19.64	102.31	27.14	302.20	2270.86	1.00	0.17
48	5.25	11	SLE F	2	4	500.00	-13384.20	40.22	49.25	0.50	19.64	102.31	27.14	302.20	2383.53	1.01	0.18
59	7.70	12	SLE Q	2	4	255.21	6692.24	40.00	55.71	0.50	20.00	104.26	25.13	304.82	1283.24	0.52	0.09
60	7.70	11	SLE F	2	4	255.21	7022.05	40.00	55.71	0.50	20.00	104.26	25.13	304.82	1346.48	0.50	0.09
71	10.25	12	SLE Q	2	4	0.00	-12604.30	40.22	49.25	0.50	19.64	102.31	27.14	302.20	2244.64	0.99	0.17
72	10.25	11	SLE F	2	4	0.00	-13223.60	40.22	49.25	0.50	19.64	102.31	27.14	302.20	2354.92	0.99	0.17
83	10.75	12	SLE Q	3	4	475.00	-10909.60	40.22	49.25	0.50	19.64	102.31	27.14	302.20	1942.84	0.84	0.15
84	10.75	11	SLE F	3	4	475.00	-11411.20	40.22	49.25	0.50	19.64	102.31	27.14	302.20	2032.16	0.84	0.15
95	12.88	12	SLE Q	3	4	262.50	6824.78	40.40	97.50	0.50	19.33	125.20	14.58	334.79	2201.92	0.90	0.19
96	12.88	11	SLE F	3	4	262.50	7159.00	40.40	97.50	0.50	19.33	125.20	14.58	334.79	2309.75	0.87	0.19
107	15.00	12	SLE Q	3	4	50.00	-4206.69	40.50	131.33	0.50	19.16	140.15	11.44	353.09	1715.59	0.62	0.15
108	15.00	11	SLE F	3	4	50.00	-4447.07	40.50	131.33	0.50	19.16	140.15	11.44	353.09	1813.63	0.56	0.13

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	19016.70	2.37	35020.20	35020.20	35020.20	1.842
9 SLU	0.80	4.45	3.65	ø10/15 2 br.	10.47	0.50	21408.10	2.50	23049.70	33754.50	23049.70	1.077
9 SLU	4.45	4.75	0.30	ø8/ 6 2 br.	16.76	0.50	24478.40	2.37	35020.20	35020.20	35020.20	1.431
9 SLU	5.25	5.55	0.30	ø8/ 6 2 br.	16.76	0.50	25662.30	2.37	35020.20	35020.20	35020.20	1.365
9 SLU	5.55	9.95	4.40	ø10/15 2 br.	10.47	0.50	22592.00	2.50	23049.70	33754.50	23049.70	1.020
9 SLU	9.95	10.25	0.30	ø8/ 6 2 br.	16.76	0.50	25508.30	2.37	35020.20	35020.20	35020.20	1.373
9 SLU	10.75	11.05	0.30	ø8/ 6 2 br.	16.76	0.50	24334.20	2.37	35020.20	35020.20	35020.20	1.439
9 SLU	11.05	14.70	3.65	ø10/15 2 br.	10.47	0.50	21263.90	2.50	23049.70	33754.50	23049.70	1.084
9 SLU	14.70	15.00	0.30	ø8/ 6 2 br.	16.76	0.50	19160.90	2.37	35020.20	35020.20	35020.20	1.828

Travata n. 103

Nodi: 109 110 111 112

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	9	SLU	1	475.00	11.44	13.45	11.44	13.45	-6651.87	-9994.93	1.503
2.14	9	SLU	1	310.55	11.44	13.45	11.44	13.45	11494.80	11579.50	1.007
4.75	9	SLU	1	50.00	27.14	16.59	27.14	16.59	-18509.60	-22145.30	1.196
5.25	9	SLU	2	500.00	27.14	16.59	27.14	16.59	-21536.60	-22145.30	1.028
7.71	9	SLU	2	253.70	15.71	26.89	15.71	26.89	11166.60	21933.40	1.964
10.25	9	SLU	2	0.00	26.01	16.59	26.01	16.59	-20840.50	-21293.90	1.022
10.75	9	SLU	3	475.00	26.01	16.59	26.01	16.59	-18607.50	-21293.90	1.144
12.88	9	SLU	3	262.50	10.30	13.45	10.30	13.45	11432.70	11579.60	1.013
15.00	9	SLU	3	50.00	10.30	13.45	10.30	13.45	-6676.64	-9102.74	1.363

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	475.00	11.44	13.45	-4630.71	1887.25	-456.24	69.47
0.50	12	SLE Q	1	475.00	11.44	13.45	-3682.11	1500.65	-362.78	55.24
2.14	10	SLE R	1	310.55	11.44	13.45	8080.13	-844.87	2816.38	117.35
2.14	12	SLE Q	1	310.55	11.44	13.45	6771.13	-708.00	2360.12	98.34
4.75	10	SLE R	1	50.00	27.14	16.59	-13047.40	2324.12	-1240.80	142.13
4.75	12	SLE Q	1	50.00	27.14	16.59	-11098.70	1976.99	-1055.47	120.91
5.25	10	SLE R	2	500.00	27.14	16.59	-15107.00	2690.99	-1436.66	164.57
5.25	12	SLE Q	2	500.00	27.14	16.59	-12605.10	2245.33	-1198.74	137.32
7.71	10	SLE R	2	253.70	15.71	26.89	7844.12	-758.52	1410.03	86.71
7.71	12	SLE Q	2	253.70	15.71	26.89	6551.54	-633.53	1177.68	72.42
10.25	10	SLE R	2	0.00	26.01	16.59	-14663.30	2720.35	-1395.69	161.65
10.25	12	SLE Q	2	0.00	26.01	16.59	-12265.00	2275.42	-1167.41	135.21
10.75	10	SLE R	3	475.00	26.01	16.59	-13079.00	2426.43	-1244.89	144.18
10.75	12	SLE Q	3	475.00	26.01	16.59	-11073.40	2054.35	-1053.99	122.07
12.88	10	SLE R	3	262.50	10.30	13.45	8034.04	-861.83	2798.92	118.47
12.88	12	SLE Q	3	262.50	10.30	13.45	6727.54	-721.68	2343.76	99.20
15.00	10	SLE R	3	50.00	10.30	13.45	-4680.49	2108.23	-454.78	73.04
15.00	12	SLE Q	3	50.00	10.30	13.45	-3770.20	1698.21	-366.33	58.83

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.50	12	SLE Q	1	4	475.00	-3682.11	40.50	131.33	0.50	19.16	139.93	11.44	351.77	1500.65	0.52	0.12
12	0.50	11	SLE F	1	4	475.00	-3924.10	40.50	131.33	0.50	19.16	139.93	11.44	351.77	1599.27	0.47	0.11
23	2.14	12	SLE Q	1	4	310.55	6771.13	40.80	97.50	0.50	18.61	128.62	13.45	339.75	2360.12	0.97	0.21

24	2.14	11	SLE F	1	4	310.55	7097.46	40.80	97.50	0.50	18.61	128.62	13.45	339.75	2473.87	0.93	0.20
35	4.75	12	SLE Q	1	4	50.00	-11098.70	40.22	49.25	0.50	19.64	102.19	27.14	300.65	1976.99	0.86	0.15
36	4.75	11	SLE F	1	4	50.00	-11581.00	40.22	49.25	0.50	19.64	102.19	27.14	300.65	2062.92	0.85	0.15
47	5.25	12	SLE Q	2	4	500.00	-12605.10	40.22	49.25	0.50	19.64	102.19	27.14	300.65	2245.33	0.99	0.17
48	5.25	11	SLE F	2	4	500.00	-13227.60	40.22	49.25	0.50	19.64	102.19	27.14	300.65	2356.21	1.00	0.17
59	7.71	12	SLE Q	2	4	253.70	6551.54	40.80	43.33	0.50	18.61	102.36	26.89	300.07	1177.68	0.47	0.08
60	7.71	11	SLE F	2	4	253.70	6874.11	40.80	43.33	0.50	18.61	102.36	26.89	300.07	1235.66	0.45	0.08
71	10.25	12	SLE Q	2	4	0.00	-12265.00	40.44	49.25	0.50	19.26	103.37	26.01	303.64	2275.42	1.00	0.18
72	10.25	11	SLE F	2	4	0.00	-12868.70	40.44	49.25	0.50	19.26	103.37	26.01	303.64	2387.40	1.01	0.18
83	10.75	12	SLE Q	3	4	475.00	-11073.40	40.44	49.25	0.50	19.26	103.37	26.01	303.64	2054.35	0.89	0.16
84	10.75	11	SLE F	3	4	475.00	-11573.30	40.44	49.25	0.50	19.26	103.37	26.01	303.64	2147.08	0.89	0.16
95	12.88	12	SLE Q	3	4	262.50	6727.54	40.80	97.50	0.50	18.61	128.40	13.45	338.19	2343.76	0.96	0.21
96	12.88	11	SLE F	3	4	262.50	7055.26	40.80	97.50	0.50	18.61	128.40	13.45	338.19	2457.93	0.92	0.20
108	15.00	12	SLE Q	3	4	50.00	-3770.20	41.00	131.33	0.50	18.22	145.22	10.30	357.52	1698.21	0.59	0.15
109	15.00	11	SLE F	3	4	50.00	-3997.21	41.00	131.33	0.50	18.22	145.22	10.30	357.52	1800.47	0.52	0.13

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	18520.50	2.37	35020.20	35020.20	35020.20	1.891
9 SLU	0.80	4.45	3.65	ø10/15 2 br.	10.47	0.50	21092.00	2.50	23049.70	33754.50	23049.70	1.093
9 SLU	4.45	4.75	0.30	ø8/ 6 2 br.	16.76	0.50	24100.60	2.37	35020.20	35020.20	35020.20	1.453
9 SLU	5.25	5.55	0.30	ø8/ 6 2 br.	16.76	0.50	25210.50	2.37	35020.20	35020.20	35020.20	1.389
9 SLU	5.55	9.95	4.40	ø10/15 2 br.	10.47	0.50	22201.90	2.50	23049.70	33754.50	23049.70	1.038
9 SLU	9.95	10.25	0.30	ø8/ 6 2 br.	16.76	0.50	24932.00	2.37	35020.20	35020.20	35020.20	1.405
9 SLU	10.75	11.05	0.30	ø8/ 6 2 br.	16.76	0.50	24117.80	2.37	35020.20	35020.20	35020.20	1.452
9 SLU	11.05	14.70	3.65	ø10/15 2 br.	10.47	0.50	21109.20	2.50	23049.70	33754.50	23049.70	1.092
9 SLU	14.70	15.00	0.30	ø8/ 6 2 br.	16.76	0.50	18503.30	2.37	35020.20	35020.20	35020.20	1.893

Travata n. 104

Nodi: 113 114 115 116

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	9	SLU	1	485.00	10.30	13.70	10.30	13.70	-7378.24	-9102.59	1.234
2.22	9	SLU	1	302.77	10.30	13.70	10.30	13.70	11123.10	11776.40	1.059
4.85	9	SLU	1	40.00	24.88	13.70	24.88	13.70	-18079.70	-20380.90	1.127
5.25	9	SLU	2	500.00	24.88	13.70	24.88	13.70	-19789.20	-20380.90	1.030
7.66	9	SLU	2	258.72	14.58	25.13	14.58	25.13	9922.00	20590.20	2.075
10.25	9	SLU	2	0.00	24.00	13.70	24.00	13.70	-19042.40	-19720.40	1.036
10.65	9	SLU	3	485.00	24.00	13.70	24.00	13.70	-18584.90	-19720.40	1.061
13.16	9	SLU	3	233.81	9.42	13.70	9.42	13.70	11133.50	11776.50	1.058
15.10	9	SLU	3	40.00	9.42	13.70	9.42	13.70	-6967.52	-8406.99	1.207

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	485.00	10.30	13.70	-5128.16	2310.27	-495.46	79.79
0.40	12	SLE Q	1	485.00	10.30	13.70	-4079.72	1837.94	-394.17	63.48
2.22	10	SLE R	1	302.77	10.30	13.70	7826.46	-840.50	2678.76	114.69
2.22	12	SLE Q	1	302.77	10.30	13.70	6574.51	-706.05	2250.26	96.34
4.85	10	SLE R	1	40.00	24.88	13.70	-12762.60	2471.81	-1285.13	148.29
4.85	12	SLE Q	1	40.00	24.88	13.70	-10880.50	2107.29	-1095.61	126.42
5.25	10	SLE R	2	500.00	24.88	13.70	-13885.50	2689.28	-1398.20	161.34
5.25	12	SLE Q	2	500.00	24.88	13.70	-11603.90	2247.40	-1168.46	134.83
7.66	10	SLE R	2	258.72	14.58	25.13	6972.27	-689.97	1337.22	79.78
7.66	12	SLE Q	2	258.72	14.58	25.13	5824.45	-576.38	1117.08	66.65
10.25	10	SLE R	2	0.00	24.00	13.70	-13409.40	2687.72	-1351.19	157.40
10.25	12	SLE Q	2	0.00	24.00	13.70	-11233.70	2251.63	-1131.96	131.86
10.65	10	SLE R	3	485.00	24.00	13.70	-13068.10	2619.31	-1316.80	153.39
10.65	12	SLE Q	3	485.00	24.00	13.70	-11097.40	2224.31	-1118.22	130.26
13.16	10	SLE R	3	233.81	9.42	13.70	7827.54	-857.79	2678.17	116.12
13.16	12	SLE Q	3	233.81	9.42	13.70	6570.60	-720.04	2248.11	97.47
15.10	10	SLE R	3	40.00	9.42	13.70	-4888.76	2399.63	-465.30	78.77
15.10	12	SLE Q	3	40.00	9.42	13.70	-3919.70	1923.97	-373.07	63.16

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>
11	0.40	12	SLE Q	1	4	485.00	-4079.72	41.00	131.33	0.50	18.22	145.27	10.30	357.80	1837.94	0.66	0.16
12	0.40	11	SLE F	1	4	485.00	-4350.30	41.00	131.33	0.50	18.22	145.27	10.30	357.80	1959.84	0.60	0.15
23	2.22	12	SLE Q	1	4	302.77	6574.51	40.80	97.50	0.50	18.96	128.25	13.70	337.06	2250.26	0.92	0.20
24	2.22	11	SLE F	1	4	302.77	6885.51	40.80	97.50	0.50	18.96	128.25	13.70	337.06	2356.71	0.88	0.19
35	4.85	12	SLE Q	1	4	40.00	-10880.50	40.67	49.25	0.50	18.86	104.27	24.88	302.64	2107.29	0.92	0.16
36	4.85	11	SLE F	1	4	40.00	-11343.90	40.67	49.25	0.50	18.86	104.27	24.88	302.64	2197.03	0.91	0.16
47	5.25	12	SLE Q	2	4	500.00	-11603.90	40.67	49.25	0.50	18.86	104.27	24.88	302.64	2247.40	0.99	0.17
48	5.25	11	SLE F	2	4	500.00	-12171.40	40.67	49.25	0.50	18.86	104.27	24.88	302.64	2357.30	0.99	0.17

59	7.66	12	SLE Q	2	4	258.72	5824.45	40.00	55.71	0.50	20.00	104.13	25.13	303.21	1117.08	0.44	0.08
60	7.66	11	SLE F	2	4	258.72	6110.76	40.00	55.71	0.50	20.00	104.13	25.13	303.21	1171.99	0.41	0.07
71	10.25	12	SLE Q	2	4	0.00	-11233.70	40.25	56.29	0.50	19.59	105.41	24.00	305.15	2251.63	0.98	0.18
72	10.25	11	SLE F	2	4	0.00	-11781.70	40.25	56.29	0.50	19.59	105.41	24.00	305.15	2361.47	0.98	0.18
83	10.65	12	SLE Q	3	4	485.00	-11097.40	40.25	56.29	0.50	19.59	105.41	24.00	305.15	2224.31	0.97	0.17
84	10.65	11	SLE F	3	4	485.00	-11588.90	40.25	56.29	0.50	19.59	105.41	24.00	305.15	2322.83	0.97	0.17
95	13.16	12	SLE Q	3	4	233.81	6570.60	40.80	97.50	0.50	18.96	128.07	13.70	335.80	2248.11	0.92	0.20
96	13.16	11	SLE F	3	4	233.81	6886.30	40.80	97.50	0.50	18.96	128.07	13.70	335.80	2356.13	0.88	0.19
107	15.10	12	SLE Q	3	4	40.00	-3919.70	40.00	197.00	0.50	20.00	156.93	9.42	362.53	1923.97	0.68	0.18
108	15.10	11	SLE F	3	4	40.00	-4160.27	40.00	197.00	0.50	20.00	156.93	9.42	362.53	2042.06	0.61	0.16

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	17840.60	2.37	35020.20	35020.20	35020.20	1.963
9 SLU	0.70	4.21	3.51	ø10/20 2 br.	7.85	0.50	16859.00	2.50	17287.30	33754.50	17287.30	1.025
9 SLU	4.21	4.85	0.64	ø8/ 6 2 br.	16.76	0.50	22650.20	2.37	35020.20	35020.20	35020.20	1.546
9 SLU	5.25	5.92	0.67	ø8/ 6 2 br.	16.76	0.50	22897.00	2.37	35020.20	35020.20	35020.20	1.529
9 SLU	5.92	9.61	3.69	ø10/20 2 br.	7.85	0.50	16818.50	2.50	17287.30	33754.50	17287.30	1.028
9 SLU	9.61	10.25	0.64	ø8/ 6 2 br.	16.76	0.50	22598.30	2.37	35020.20	35020.20	35020.20	1.550
9 SLU	10.65	11.30	0.65	ø8/ 6 2 br.	16.76	0.50	22856.10	2.37	35020.20	35020.20	35020.20	1.532
9 SLU	11.30	14.80	3.50	ø10/20 2 br.	7.85	0.50	16956.50	2.50	17287.30	33754.50	17287.30	1.020
9 SLU	14.80	15.10	0.30	ø8/ 6 2 br.	16.76	0.50	17634.80	2.37	35020.20	35020.20	35020.20	1.986

Travata n. 105

Nodi: 117 118 119 120

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	9	SLU	1	485.00	11.44	12.57	11.44	12.57	-6753.49	-9995.59	1.480
2.27	9	SLU	1	298.03	11.44	12.57	11.44	12.57	10545.40	10888.10	1.032
4.85	9	SLU	1	40.00	24.00	12.57	24.00	12.57	-17332.70	-19694.80	1.136
5.25	9	SLU	2	500.00	24.00	12.57	24.00	12.57	-18944.80	-19694.80	1.040
7.69	9	SLU	2	256.14	12.57	18.85	12.57	18.85	9438.58	15784.80	1.672
10.25	9	SLU	2	0.00	24.00	12.57	24.00	12.57	-17686.30	-19694.80	1.114
10.65	9	SLU	3	485.00	24.00	12.57	24.00	12.57	-16098.40	-19694.80	1.223
12.88	9	SLU	3	262.50	11.44	12.57	11.44	12.57	9520.05	10888.10	1.144
15.10	9	SLU	3	40.00	11.44	12.57	11.44	12.57	-9454.39	-9995.59	1.057

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	485.00	11.44	12.57	-4682.18	1907.22	-470.47	70.99
0.40	12	SLE Q	1	485.00	11.44	12.57	-3693.74	1504.59	-371.15	56.01
2.27	10	SLE R	1	298.03	11.44	12.57	7424.17	-772.39	2760.94	110.38
2.27	12	SLE Q	1	298.03	11.44	12.57	6246.46	-649.86	2322.97	92.87
4.85	10	SLE R	1	40.00	24.00	12.57	-12249.80	2455.86	-1262.56	146.15
4.85	12	SLE Q	1	40.00	24.00	12.57	-10473.80	2099.80	-1079.51	124.96
5.25	10	SLE R	2	500.00	24.00	12.57	-13303.30	2667.07	-1371.14	158.71
5.25	12	SLE Q	2	500.00	24.00	12.57	-11146.30	2234.62	-1148.82	132.98
7.69	10	SLE R	2	256.14	12.57	18.85	6634.81	-685.00	1674.78	85.00
7.69	12	SLE Q	2	256.14	12.57	18.85	5546.63	-572.65	1400.10	71.06
10.25	10	SLE R	2	0.00	24.00	12.57	-12452.20	2496.44	-1283.42	148.56
10.25	12	SLE Q	2	0.00	24.00	12.57	-10418.40	2088.70	-1073.81	124.30
10.65	10	SLE R	3	485.00	24.00	12.57	-11308.90	2267.21	-1165.58	134.92
10.65	12	SLE Q	3	485.00	24.00	12.57	-9584.41	1921.49	-987.84	114.34
12.88	10	SLE R	3	262.50	11.44	12.57	6692.53	-696.27	2488.85	99.50
12.88	12	SLE Q	3	262.50	11.44	12.57	5617.27	-584.40	2088.98	83.52
15.10	10	SLE R	3	40.00	11.44	12.57	-6656.12	2711.28	-668.81	100.92
15.10	12	SLE Q	3	40.00	11.44	12.57	-5439.94	2215.88	-546.61	82.48

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>
11	0.40	12	SLE Q	1	4	485.00	-3693.74	40.50	131.33	0.50	19.16	139.75	11.44	350.71	1504.59	0.52	0.12
12	0.40	11	SLE F	1	4	485.00	-3949.68	40.50	131.33	0.50	19.16	139.75	11.44	350.71	1608.85	0.47	0.11
23	2.27	12	SLE Q	1	4	298.03	6246.46	40.00	130.00	0.50	20.00	134.72	12.57	343.80	2322.97	0.94	0.21
24	2.27	11	SLE F	1	4	298.03	6538.84	40.00	130.00	0.50	20.00	134.72	12.57	343.80	2431.70	0.89	0.20
35	4.85	12	SLE Q	1	4	40.00	-10473.80	40.25	56.29	0.50	19.59	105.27	24.00	303.49	2099.80	0.91	0.16
36	4.85	11	SLE F	1	4	40.00	-10910.10	40.25	56.29	0.50	19.59	105.27	24.00	303.49	2187.27	0.90	0.16
47	5.25	12	SLE Q	2	4	500.00	-11146.30	40.25	56.29	0.50	19.59	105.27	24.00	303.49	2234.62	0.98	0.17
48	5.25	11	SLE F	2	4	500.00	-11682.70	40.25	56.29	0.50	19.59	105.27	24.00	303.49	2342.15	0.98	0.17
59	7.69	12	SLE Q	2	4	256.14	5546.63	40.00	78.00	0.50	20.00	113.94	18.85	319.91	1400.10	0.55	0.11
60	7.69	11	SLE F	2	4	256.14	5818.01	40.00	78.00	0.50	20.00	113.94	18.85	319.91	1468.60	0.51	0.10
71	10.25	12	SLE Q	2	4	0.00	-10418.40	40.25	56.29	0.50	19.59	105.27	24.00	303.49	2088.70	0.91	0.16
72	10.25	11	SLE F	2	4	0.00	-10930.90	40.25	56.29	0.50	19.59	105.27	24.00	303.49	2191.44	0.90	0.16
83	10.65	12	SLE Q	3	4	485.00	-9584.41	40.25	56.29	0.50	19.59	105.27	24.00	303.49	1921.49	0.82	0.15

84	10.65	11	SLE F	3	4	485.00	-10014.70	40.25	56.29	0.50	19.59	105.27	24.00	303.49	2007.76	0.81	0.15
95	12.88	12	SLE Q	3	4	262.50	5617.27	40.00	130.00	0.50	20.00	134.72	12.57	343.80	2088.98	0.82	0.19
96	12.88	11	SLE F	3	4	262.50	5887.91	40.00	130.00	0.50	20.00	134.72	12.57	343.80	2189.63	0.78	0.18
107	15.10	12	SLE Q	3	4	40.00	-5439.94	40.50	131.33	0.50	19.16	139.75	11.44	350.71	2215.88	0.86	0.21
108	15.10	11	SLE F	3	4	40.00	-5741.48	40.50	131.33	0.50	19.16	139.75	11.44	350.71	2338.71	0.82	0.19

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	16770.00	2.37	35020.20	35020.20	35020.20	2.088
9 SLU	0.70	4.33	3.63	ø10/20 2 br.	7.85	0.50	17092.10	2.50	17287.30	33754.50	17287.30	1.011
9 SLU	4.33	4.85	0.52	ø8/ 6 2 br.	16.76	0.50	21524.80	2.37	35020.20	35020.20	35020.20	1.627
9 SLU	5.25	5.82	0.57	ø8/ 6 2 br.	16.76	0.50	21765.60	2.37	35020.20	35020.20	35020.20	1.609
9 SLU	5.82	9.75	3.94	ø10/20 2 br.	7.85	0.50	16993.50	2.50	17287.30	33754.50	17287.30	1.017
9 SLU	9.75	10.25	0.50	ø8/ 6 2 br.	16.76	0.50	21262.20	2.37	35020.20	35020.20	35020.20	1.647
9 SLU	10.65	11.09	0.44	ø8/ 6 2 br.	16.76	0.50	20640.50	2.37	35020.20	35020.20	35020.20	1.697
9 SLU	11.09	14.80	3.71	ø10/20 2 br.	7.85	0.50	16849.10	2.50	17287.30	33754.50	17287.30	1.026
9 SLU	14.80	15.10	0.30	ø8/ 6 2 br.	16.76	0.50	17654.40	2.37	35020.20	35020.20	35020.20	1.984

Travata n. 106

Nodi: 121 122 127

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	9	SLU	1	485.00	10.30	13.45	10.30	13.45	-7441.10	-9102.74	1.223
2.28	9	SLU	1	297.07	10.30	13.45	10.30	13.45	11071.70	11579.60	1.046
4.85	9	SLU	1	40.00	22.87	13.45	22.87	13.45	-17787.40	-18865.10	1.061
5.25	9	SLU	2	447.00	22.87	13.45	22.87	13.45	-18594.80	-18865.10	1.015
7.49	9	SLU	2	223.50	10.30	10.30	10.30	10.30	8691.82	9104.90	1.048
9.72	9	SLU	2	0.00	13.45	10.30	13.45	10.30	-11078.90	-11579.60	1.045

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	485.00	10.30	13.45	-5172.95	2330.05	-502.63	80.72
0.40	12	SLE Q	1	485.00	10.30	13.45	-4120.70	1856.09	-400.39	64.30
2.28	10	SLE R	1	297.07	10.30	13.45	7789.79	-835.63	2713.83	114.87
2.28	12	SLE Q	1	297.07	10.30	13.45	6544.46	-702.04	2279.98	96.50
4.85	10	SLE R	1	40.00	22.87	13.45	-12558.50	2635.81	-1272.74	149.99
4.85	12	SLE Q	1	40.00	22.87	13.45	-10704.70	2246.74	-1084.87	127.85
5.25	10	SLE R	2	447.00	22.87	13.45	-13134.10	2756.63	-1331.08	156.87
5.25	12	SLE Q	2	447.00	22.87	13.45	-11185.20	2347.58	-1133.56	133.59
7.49	10	SLE R	2	223.50	10.30	10.30	6111.48	-638.89	2746.74	99.02
7.49	12	SLE Q	2	223.50	10.30	10.30	5117.62	-534.99	2300.06	82.92
9.72	10	SLE R	2	0.00	13.45	10.30	-7728.88	2692.61	-829.10	113.97
9.72	12	SLE Q	2	0.00	13.45	10.30	-6285.72	2189.84	-674.29	92.69

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>
11	0.40	12	SLE Q	1	4	485.00	-4120.70	41.00	131.33	0.50	18.22	145.22	10.30	357.52	1856.09	0.67	0.16
12	0.40	11	SLE F	1	4	485.00	-4388.88	41.00	131.33	0.50	18.22	145.22	10.30	357.52	1976.89	0.61	0.15
23	2.28	12	SLE Q	1	4	297.07	6544.46	40.80	97.50	0.50	18.61	128.40	13.45	338.19	2279.98	0.93	0.20
24	2.28	11	SLE F	1	4	297.07	6855.23	40.80	97.50	0.50	18.61	128.40	13.45	338.19	2388.25	0.89	0.19
35	4.85	12	SLE Q	1	4	40.00	-10704.70	40.50	56.29	0.50	19.16	106.81	22.87	308.12	2246.74	0.98	0.18
36	4.85	11	SLE F	1	4	40.00	-11162.40	40.50	56.29	0.50	19.16	106.81	22.87	308.12	2342.80	0.97	0.18
47	5.25	12	SLE Q	2	4	447.00	-11185.20	40.50	56.29	0.50	19.16	106.81	22.87	308.12	2347.58	1.03	0.19
48	5.25	11	SLE F	2	4	447.00	-11668.90	40.50	56.29	0.50	19.16	106.81	22.87	308.12	2449.11	1.02	0.19
59	7.49	12	SLE Q	2	4	223.50	5117.62	41.00	130.00	0.50	18.22	144.56	10.30	353.76	2300.06	0.88	0.22
60	7.49	11	SLE F	2	4	223.50	5365.33	41.00	130.00	0.50	18.22	144.56	10.30	353.76	2411.39	0.82	0.20
71	9.72	12	SLE Q	2	4	0.00	-6285.72	40.80	98.50	0.50	18.61	128.40	13.45	338.19	2189.84	0.88	0.19
72	9.72	11	SLE F	2	4	0.00	-6650.43	40.80	98.50	0.50	18.61	128.40	13.45	338.19	2316.90	0.86	0.19

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	17792.30	2.37	35020.20	35020.20	35020.20	1.968
9 SLU	0.70	4.22	3.52	ø10/20 2 br.	7.85	0.50	16717.70	2.50	17287.30	33754.50	17287.30	1.034
9 SLU	4.22	4.85	0.63	ø8/ 6 2 br.	16.76	0.50	22442.40	2.37	35020.20	35020.20	35020.20	1.560
9 SLU	5.25	5.80	0.55	ø8/ 6 2 br.	16.76	0.50	21889.10	2.37	35020.20	35020.20	35020.20	1.600
9 SLU	5.80	9.42	3.62	ø10/20 2 br.	7.85	0.50	16891.10	2.50	17287.30	33754.50	17287.30	1.023
9 SLU	9.42	9.72	0.30	ø8/ 6 2 br.	16.76	0.50	18526.40	2.37	35020.20	35020.20	35020.20	1.890

Travata n. 109

Nodi: 102 106 110 114 118 122 124

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
3	R	30.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	565.00	6.03	6.03	6.03	6.03	588.01	5694.09	9.684
1.91	9	SLU	1	413.99	6.03	6.03	6.03	6.03	1061.90	5694.09	5.362
5.85	9	SLU	1	20.00	6.03	6.03	6.03	6.03	-2326.81	-5694.09	2.447
6.25	5	SLV	2	560.00	6.03	6.03	6.03	6.03	-1274.30	-5694.09	4.468
8.47	9	SLU	2	337.65	6.03	6.03	6.03	6.03	658.21	5694.09	8.651
11.65	5	SLV	2	20.00	6.03	6.03	6.03	6.03	-1652.36	-5694.09	3.446
12.05	5	SLV	3	560.00	6.03	6.03	6.03	6.03	-1266.61	-5694.09	4.496
14.40	9	SLU	3	325.17	6.03	6.03	6.03	6.03	721.06	5694.09	7.897
17.45	5	SLV	3	20.00	10.05	10.05	10.05	10.05	-1543.38	-8905.95	5.770
17.85	5	SLV	4	447.00	4.02	4.02	4.02	4.02	-619.70	-3741.10	6.037
18.77	5	SLV	4	355.50	4.02	4.02	4.02	4.02	337.53	3741.10	11.084
22.12	5	SLV	4	20.00	4.02	4.02	4.02	4.02	-942.92	-3741.10	3.968
22.52	5	SLV	5	500.00	4.02	4.02	4.02	4.02	-736.41	-3741.10	5.080
24.71	9	SLU	5	281.25	4.02	4.02	4.02	4.02	348.49	3741.10	10.735
27.52	5	SLV	5	-0.00	4.02	4.02	4.02	4.02	-912.63	-3741.10	4.099
27.92	9	SLU	6	480.00	4.02	4.02	4.02	4.02	-1455.63	-3741.10	2.570
31.69	9	SLU	6	102.86	4.02	4.02	4.02	4.02	886.15	3741.10	4.222
32.32	9	SLU	6	40.00	4.02	4.02	4.02	4.02	880.54	3741.10	4.249

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	565.00	6.03	6.03	296.58	-30.39	221.65	6.23
0.40	12	SLE Q	1	565.00	6.03	6.03	290.41	-29.76	217.04	6.10
1.91	10	SLE R	1	413.99	6.03	6.03	791.88	-81.14	591.83	16.63
1.91	12	SLE Q	1	413.99	6.03	6.03	784.62	-80.39	586.40	16.47
5.85	10	SLE R	1	20.00	6.03	6.03	-1734.92	1296.62	-177.76	36.42
5.85	12	SLE Q	1	20.00	6.03	6.03	-1743.95	1303.37	-178.69	36.61
6.25	10	SLE R	2	560.00	6.03	6.03	-711.44	531.71	-72.90	14.94
6.25	12	SLE Q	2	560.00	6.03	6.03	-718.28	536.82	-73.60	15.08
8.47	10	SLE R	2	337.65	6.03	6.03	506.43	-51.89	378.49	10.63
8.47	12	SLE Q	2	337.65	6.03	6.03	507.28	-51.98	379.12	10.65
11.65	10	SLE R	2	20.00	6.03	6.03	-1116.54	834.46	-114.40	23.44
11.65	12	SLE Q	2	20.00	6.03	6.03	-1106.95	827.30	-113.42	23.24
12.05	10	SLE R	3	560.00	6.03	6.03	-725.55	542.25	-74.34	15.23
12.05	12	SLE Q	3	560.00	6.03	6.03	-730.00	545.58	-74.80	15.33
14.40	10	SLE R	3	325.17	6.03	6.03	552.65	-56.63	413.03	11.60
14.40	12	SLE Q	3	325.17	6.03	6.03	549.78	-56.33	410.89	11.54
17.45	10	SLE R	3	20.00	10.05	10.05	-1010.83	465.10	-105.94	16.58
17.45	12	SLE Q	3	20.00	10.05	10.05	-1011.38	465.35	-106.00	16.59
17.85	10	SLE R	4	447.00	4.02	4.02	-197.51	222.61	-34.37	6.57
17.85	12	SLE Q	4	447.00	4.02	4.02	-205.81	231.96	-35.82	6.85
18.77	10	SLE R	4	355.50	4.02	4.02	133.88	-23.30	150.89	4.46
18.77	12	SLE Q	4	355.50	4.02	4.02	131.42	-22.87	148.12	4.37
22.12	10	SLE R	4	20.00	4.02	4.02	-534.60	602.52	-93.04	17.80
22.12	12	SLE Q	4	20.00	4.02	4.02	-521.26	587.49	-90.72	17.35
22.52	10	SLE R	5	500.00	4.02	4.02	-361.13	407.01	-62.85	12.02
22.52	12	SLE Q	5	500.00	4.02	4.02	-383.32	432.03	-66.71	12.76
24.71	10	SLE R	5	281.25	4.02	4.02	266.75	-46.42	300.63	8.88
24.71	12	SLE Q	5	281.25	4.02	4.02	264.54	-46.04	298.15	8.81
27.52	10	SLE R	5	-0.00	4.02	4.02	-567.72	639.85	-98.80	18.90
27.52	12	SLE Q	5	-0.00	4.02	4.02	-546.69	616.15	-95.14	18.20
27.92	10	SLE R	6	480.00	4.02	4.02	-1092.21	1230.98	-190.08	36.36
27.92	12	SLE Q	6	480.00	4.02	4.02	-1101.76	1241.74	-191.75	36.67
31.69	10	SLE R	6	102.86	4.02	4.02	649.81	-113.09	732.37	21.63
31.69	12	SLE Q	6	102.86	4.02	4.02	643.67	-112.02	725.45	21.43
32.32	10	SLE R	6	40.00	4.02	4.02	642.01	-111.73	723.58	21.37
32.32	12	SLE Q	6	40.00	4.02	4.02	636.15	-110.71	716.98	21.18

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>
14	0.40	12	SLE Q	1	4	565.00	290.41	42.00	199.00	0.50	16.00	183.86	6.03	376.48	217.04	0.06	0.02
15	0.40	11	SLE F	1	4	565.00	290.36	42.00	199.00	0.50	16.00	183.86	6.03	376.48	217.01	0.06	0.02
26	1.91	12	SLE Q	1	4	413.99	784.62	42.00	197.00	0.50	16.00	183.86	6.03	376.48	586.40	0.17	0.05
27	1.91	11	SLE F	1	4	413.99	785.73	42.00	197.00	0.50	16.00	183.86	6.03	376.48	587.23	0.17	0.05
38	5.85	12	SLE Q	1	4	20.00	-1743.95	42.00	199.00	0.50	16.00	183.86	6.03	376.48	1303.37	0.38	0.12
39	5.85	11	SLE F	1	4	20.00	-1740.38	42.00	199.00	0.50	16.00	183.86	6.03	376.48	1300.70	0.38	0.12
51	6.25	12	SLE Q	2	4	560.00	-718.28	42.00	199.00	0.50	16.00	183.86	6.03	376.48	536.82	0.16	0.05
52	6.25	11	SLE F	2	4	560.00	-717.08	42.00	199.00	0.50	16.00	183.86	6.03	376.48	535.92	0.16	0.05
63	8.47	12	SLE Q	2	4	337.65	507.28	42.00	197.00	0.50	16.00	183.86	6.03	376.48	379.12	0.11	0.03
64	8.47	11	SLE F	2	4	337.65	507.07	42.00	197.00	0.50	16.00	183.86	6.03	376.48	378.97	0.11	0.03
75	11.65	12	SLE Q	2	4	20.00	-1106.95	42.00	199.00	0.50	16.00	183.86	6.03	376.48	827.30	0.24	0.08
76	11.65	11	SLE F	2	4	20.00	-1108.74	42.00	199.00	0.50	16.00	183.86	6.03	376.48	828.64	0.24	0.08

88	12.05	12	SLE Q	3	4	560.00	-730.00	42.00	199.00	0.50	16.00	183.86	6.03	376.48	545.58	0.16	0.05
89	12.05	11	SLE F	3	4	560.00	-729.36	42.00	199.00	0.50	16.00	183.86	6.03	376.48	545.10	0.16	0.05
100	14.40	12	SLE Q	3	4	325.17	549.78	42.00	197.00	0.50	16.00	183.86	6.03	376.48	410.89	0.12	0.04
101	14.40	11	SLE F	3	4	325.17	550.40	42.00	197.00	0.50	16.00	183.86	6.03	376.48	411.35	0.12	0.04
112	17.45	12	SLE Q	3	4	20.00	-1011.38	42.00	99.50	0.50	16.00	140.47	10.05	354.82	465.35	0.14	0.03
113	17.45	11	SLE F	3	4	20.00	-1010.90	42.00	99.50	0.50	16.00	140.47	10.05	354.82	465.13	0.14	0.03
124	17.85	12	SLE Q	4	3	447.00	-205.81	42.00	198.00	0.50	16.00	172.83	4.02	223.25	231.96	0.07	0.02
125	17.85	11	SLE F	4	3	447.00	-204.20	42.00	198.00	0.50	16.00	172.83	4.02	223.25	230.14	0.07	0.02
137	18.77	12	SLE Q	4	3	355.50	131.42	42.00	198.00	0.50	16.00	172.83	4.02	223.25	148.12	0.04	0.01
138	18.77	11	SLE F	4	3	355.50	131.86	42.00	198.00	0.50	16.00	172.83	4.02	223.25	148.61	0.04	0.01
149	22.12	12	SLE Q	4	3	20.00	-521.26	42.00	198.00	0.50	16.00	172.83	4.02	223.25	587.49	0.17	0.05
150	22.12	11	SLE F	4	3	20.00	-523.98	42.00	198.00	0.50	16.00	172.83	4.02	223.25	590.56	0.17	0.05
162	22.52	12	SLE Q	5	3	500.00	-383.32	42.00	198.00	0.50	16.00	172.83	4.02	223.25	432.03	0.13	0.04
163	22.52	11	SLE F	5	3	500.00	-377.92	42.00	198.00	0.50	16.00	172.83	4.02	223.25	425.93	0.12	0.04
174	24.71	12	SLE Q	5	3	281.25	264.54	42.00	198.00	0.50	16.00	172.83	4.02	223.25	298.15	0.09	0.03
175	24.71	11	SLE F	5	3	281.25	265.05	42.00	198.00	0.50	16.00	172.83	4.02	223.25	298.72	0.09	0.03
186	27.52	12	SLE Q	5	3	-0.00	-546.69	42.00	198.00	0.50	16.00	172.83	4.02	223.25	616.15	0.18	0.05
187	27.52	11	SLE F	5	3	-0.00	-551.81	42.00	198.00	0.50	16.00	172.83	4.02	223.25	621.91	0.18	0.05
198	27.92	12	SLE Q	6	3	480.00	-1101.76	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1241.74	0.36	0.11
199	27.92	11	SLE F	6	3	480.00	-1096.72	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1236.06	0.36	0.11
210	31.69	12	SLE Q	6	3	102.86	643.67	42.00	198.00	0.50	16.00	172.83	4.02	223.25	725.45	0.21	0.06
211	31.69	11	SLE F	6	3	102.86	642.58	42.00	198.00	0.50	16.00	172.83	4.02	223.25	724.22	0.21	0.06
222	32.32	12	SLE Q	6	3	40.00	636.15	42.00	198.00	0.50	16.00	172.83	4.02	223.25	716.98	0.21	0.06
223	32.32	11	SLE F	6	3	40.00	634.64	42.00	198.00	0.50	16.00	172.83	4.02	223.25	715.27	0.21	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 TGND	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	907.38	2.37	35020.20	35020.20	35020.20	38.595
9 SLU	0.70	5.55	4.85	ø10/20 2 br.	7.85	0.50	1645.36	2.50	17287.30	33754.50	17287.30	10.507
9 SLU	5.55	5.85	0.30	ø8/ 6 2 br.	16.76	0.50	1791.61	2.37	35020.20	35020.20	35020.20	19.547
7 TGND	6.25	6.55	0.30	ø8/ 6 2 br.	16.76	0.50	1364.53	2.37	35020.20	35020.20	35020.20	25.665
5 TGND	6.55	11.35	4.80	ø10/20 2 br.	7.85	0.50	1395.98	2.50	17287.30	33754.50	17287.30	12.384
5 TGND	11.35	11.65	0.30	ø8/ 6 2 br.	16.76	0.50	1508.48	2.37	35020.20	35020.20	35020.20	23.215
7 TGND	12.05	12.35	0.30	ø8/ 6 2 br.	16.76	0.50	1371.75	2.37	35020.20	35020.20	35020.20	25.529
5 TGND	12.35	17.15	4.80	ø10/20 2 br.	7.85	0.50	1363.47	2.50	17287.30	33754.50	17287.30	12.679
5 TGND	17.15	17.45	0.30	ø8/ 6 2 br.	16.76	0.50	1475.97	2.37	35020.20	35020.20	35020.20	23.727
7 TGND	17.85	18.15	0.30	ø8/ 6 2 br.	16.76	0.30	813.28	1.73	25471.60	25471.60	25471.60	31.320
5 TGND	18.15	21.82	3.67	ø8/20 2 br.	5.03	0.30	893.53	2.50	11063.90	20252.70	11063.90	12.382
5 TGND	21.82	22.12	0.30	ø8/ 6 2 br.	16.76	0.30	961.03	1.73	25471.60	25471.60	25471.60	26.505
7 TGND	22.52	22.82	0.30	ø8/ 6 2 br.	16.76	0.30	828.80	1.73	25471.60	25471.60	25471.60	30.733
5 TGND	22.82	27.22	4.40	ø8/20 2 br.	5.03	0.30	826.65	2.50	11063.90	20252.70	11063.90	13.384
5 TGND	27.22	27.52	0.30	ø8/ 6 2 br.	16.76	0.30	894.15	1.73	25471.60	25471.60	25471.60	28.487
9 SLU	27.92	28.22	0.30	ø8/ 6 2 br.	16.76	0.30	1150.14	1.73	25471.60	25471.60	25471.60	22.147
9 SLU	28.22	32.02	3.80	ø8/20 2 br.	5.03	0.30	1062.39	2.50	11063.90	20252.70	11063.90	10.414
1 TGND	32.02	32.32	0.30	ø8/ 6 2 br.	16.76	0.30	283.76	1.73	25471.60	25471.60	25471.60	89.763

Travata n. 110

Nodi: 126 103 107 111 115 119 128

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
3	R	30.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLV	1	0.00	6.03	6.03	6.03	6.03	-813.24	-5694.09	7.002
1.17	1	SLV	1	116.98	6.03	6.03	6.03	6.03	853.41	5694.09	6.672
4.99	1	SLV	1	499.00	6.03	6.03	6.03	6.03	-1693.21	-5694.09	3.363
5.39	5	SLV	2	40.00	6.03	6.03	6.03	6.03	-1207.80	-5694.09	4.714
7.72	9	SLU	2	273.11	6.03	6.03	6.03	6.03	713.81	5694.09	7.977
10.84	5	SLV	2	585.00	6.28	6.28	6.28	6.28	-1573.82	-5897.36	3.747
11.24	5	SLV	3	20.00	6.28	6.28	6.28	6.28	-1209.91	-5897.36	4.874
13.46	9	SLU	3	242.35	6.28	6.28	6.28	6.28	678.98	5897.36	8.686
16.64	5	SLV	3	560.00	6.03	6.03	6.03	6.03	-1644.86	-5694.09	3.462
17.04	5	SLV	4	20.00	6.03	6.03	6.03	6.03	-1189.66	-5694.09	4.786
19.26	9	SLU	4	242.35	6.03	6.03	6.03	6.03	721.23	5694.09	7.895
22.44	5	SLV	4	560.00	10.05	10.05	10.05	10.05	-1547.66	-8905.95	5.754
22.84	5	SLV	5	20.00	4.02	4.02	4.02	4.02	-673.50	-3741.10	5.555
23.45	5	SLV	5	81.00	4.02	4.02	4.02	4.02	-478.47	-3741.10	7.819
27.11	5	SLV	5	447.00	4.02	4.02	4.02	4.02	-985.59	-3741.10	3.796
27.51	5	SLV	6	20.00	4.02	4.02	4.02	4.02	-1176.28	-3741.10	3.180
31.14	5	SLV	6	383.27	4.02	4.02	4.02	4.02	494.44	3741.10	7.566
32.51	5	SLV	6	520.00	4.02	4.02	4.02	4.02	-715.75	-3741.10	5.227

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.00	10	SLE R	1	0.00	6.03	6.03	-167.37	125.09	-17.15	3.51
0.00	12	SLE Q	1	0.00	6.03	6.03	-192.60	143.94	-19.73	4.04
1.17	10	SLE R	1	116.98	6.03	6.03	581.38	-59.57	434.50	12.21

1.17	12	SLE Q	1	116.98	6.03	6.03	563.66	-57.75	421.26	11.83
4.99	10	SLE R	1	499.00	6.03	6.03	-1085.42	811.21	-111.22	22.79
4.99	12	SLE Q	1	499.00	6.03	6.03	-1079.29	806.62	-110.59	22.66
5.39	10	SLE R	2	40.00	6.03	6.03	-756.79	565.60	-77.54	15.89
5.39	12	SLE Q	2	40.00	6.03	6.03	-717.96	536.58	-73.56	15.07
7.72	10	SLE R	2	273.11	6.03	6.03	546.47	-55.99	408.41	11.47
7.72	12	SLE Q	2	273.11	6.03	6.03	547.25	-56.07	408.99	11.49
10.84	10	SLE R	2	585.00	6.28	6.28	-1041.51	748.80	-107.62	21.45
10.84	12	SLE Q	2	585.00	6.28	6.28	-1083.66	779.11	-111.97	22.32
11.24	10	SLE R	3	20.00	6.28	6.28	-670.37	481.97	-69.27	13.81
11.24	12	SLE Q	3	20.00	6.28	6.28	-683.23	491.21	-70.60	14.07
13.46	10	SLE R	3	242.35	6.28	6.28	521.08	-53.84	374.64	10.73
13.46	12	SLE Q	3	242.35	6.28	6.28	520.61	-53.79	374.29	10.72
16.64	10	SLE R	3	560.00	6.03	6.03	-1135.77	848.83	-116.37	23.84
16.64	12	SLE Q	3	560.00	6.03	6.03	-1121.54	838.20	-114.92	23.55
17.04	10	SLE R	4	20.00	6.03	6.03	-683.70	510.97	-70.05	14.35
17.04	12	SLE Q	4	20.00	6.03	6.03	-692.37	517.45	-70.94	14.54
19.26	10	SLE R	4	242.35	6.03	6.03	552.19	-56.58	412.69	11.59
19.26	12	SLE Q	4	242.35	6.03	6.03	548.93	-56.24	410.25	11.52
22.44	10	SLE R	4	560.00	10.05	10.05	-1058.90	487.22	-110.98	17.37
22.44	12	SLE Q	4	560.00	10.05	10.05	-1055.26	485.54	-110.60	17.31
22.84	10	SLE R	5	20.00	4.02	4.02	-188.93	212.93	-32.88	6.29
22.84	12	SLE Q	5	20.00	4.02	4.02	-209.92	236.59	-36.53	6.99
23.45	10	SLE R	5	81.00	4.02	4.02	85.32	-14.85	96.16	2.84
23.45	12	SLE Q	5	81.00	4.02	4.02	-87.22	98.31	-15.18	2.90
27.11	10	SLE R	5	447.00	4.02	4.02	-535.25	603.26	-93.15	17.82
27.11	12	SLE Q	5	447.00	4.02	4.02	-509.59	574.34	-88.69	16.96
27.51	10	SLE R	6	20.00	4.02	4.02	-602.47	679.02	-104.85	20.05
27.51	12	SLE Q	6	20.00	4.02	4.02	-680.62	767.10	-118.45	22.66
31.14	10	SLE R	6	383.27	4.02	4.02	253.00	-44.03	285.15	8.42
31.14	12	SLE Q	6	383.27	4.02	4.02	279.13	-48.58	314.60	9.29
32.51	10	SLE R	6	520.00	4.02	4.02	-287.81	324.37	-50.09	9.58
32.51	12	SLE Q	6	520.00	4.02	4.02	-213.93	241.12	-37.23	7.12

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
15	0.00	12	SLE Q	1	4	0.00	-192.60	42.00	199.00	0.50	16.00	183.86	6.03	376.48	143.94	0.04	0.01
17	0.00	11	SLE F	1	4	0.00	-188.48	42.00	199.00	0.50	16.00	183.86	6.03	376.48	140.87	0.04	0.01
29	1.17	12	SLE Q	1	4	116.98	563.66	42.00	197.00	0.50	16.00	183.86	6.03	376.48	421.26	0.12	0.04
30	1.17	11	SLE F	1	4	116.98	566.90	42.00	197.00	0.50	16.00	183.86	6.03	376.48	423.68	0.12	0.04
41	4.99	12	SLE Q	1	4	499.00	-1079.29	42.00	199.00	0.50	16.00	183.86	6.03	376.48	806.62	0.23	0.07
42	4.99	11	SLE F	1	4	499.00	-1079.19	42.00	199.00	0.50	16.00	183.86	6.03	376.48	806.55	0.23	0.07
53	5.39	12	SLE Q	2	4	40.00	-717.96	42.00	199.00	0.50	16.00	183.86	6.03	376.48	536.58	0.16	0.05
54	5.39	11	SLE F	2	4	40.00	-727.43	42.00	199.00	0.50	16.00	183.86	6.03	376.48	543.66	0.16	0.05
65	7.72	12	SLE Q	2	4	273.11	547.25	42.00	197.00	0.50	16.00	183.86	6.03	376.48	408.99	0.12	0.04
66	7.72	11	SLE F	2	4	273.11	546.98	42.00	197.00	0.50	16.00	183.86	6.03	376.48	408.79	0.12	0.04
77	10.84	12	SLE Q	2	4	585.00	-1083.66	40.00	394.00	0.50	20.00	199.30	6.28	374.78	779.11	0.23	0.08
78	10.84	11	SLE F	2	4	585.00	-1073.43	40.00	394.00	0.50	20.00	199.30	6.28	374.78	771.75	0.22	0.08
90	11.24	12	SLE Q	3	4	20.00	-683.23	40.00	394.00	0.50	20.00	199.30	6.28	374.78	491.21	0.14	0.05
91	11.24	11	SLE F	3	4	20.00	-680.29	40.00	394.00	0.50	20.00	199.30	6.28	374.78	489.10	0.14	0.05
102	13.46	12	SLE Q	3	4	242.35	520.61	40.00	390.00	0.50	20.00	199.30	6.28	374.78	374.29	0.11	0.04
103	13.46	11	SLE F	3	4	242.35	520.72	40.00	390.00	0.50	20.00	199.30	6.28	374.78	374.38	0.11	0.04
114	16.64	12	SLE Q	3	4	560.00	-1121.54	42.00	199.00	0.50	16.00	183.86	6.03	376.48	838.20	0.24	0.08
115	16.64	11	SLE F	3	4	560.00	-1124.76	42.00	199.00	0.50	16.00	183.86	6.03	376.48	840.61	0.24	0.08
127	17.04	12	SLE Q	4	4	20.00	-692.37	42.00	199.00	0.50	16.00	183.86	6.03	376.48	517.45	0.15	0.05
128	17.04	11	SLE F	4	4	20.00	-690.45	42.00	199.00	0.50	16.00	183.86	6.03	376.48	516.02	0.15	0.05
139	19.26	12	SLE Q	4	4	242.35	548.93	42.00	197.00	0.50	16.00	183.86	6.03	376.48	410.25	0.12	0.04
140	19.26	11	SLE F	4	4	242.35	549.68	42.00	197.00	0.50	16.00	183.86	6.03	376.48	410.81	0.12	0.04
151	22.44	12	SLE Q	4	4	560.00	-1055.26	42.00	99.50	0.50	16.00	140.47	10.05	354.82	485.54	0.14	0.03
152	22.44	11	SLE F	4	4	560.00	-1056.03	42.00	99.50	0.50	16.00	140.47	10.05	354.82	485.89	0.14	0.03
163	22.84	12	SLE Q	5	3	20.00	-209.92	42.00	198.00	0.50	16.00	172.83	4.02	223.25	236.59	0.07	0.02
164	22.84	11	SLE F	5	3	20.00	-204.74	42.00	198.00	0.50	16.00	172.83	4.02	223.25	230.75	0.07	0.02
180	23.45	12	SLE Q	5	3	81.00	-87.22	42.00	198.00	0.50	16.00	172.83	4.02	223.25	98.31	0.03	0.01
182	23.45	11	SLE F	5	3	81.00	-82.92	42.00	198.00	0.50	16.00	172.83	4.02	223.25	93.46	0.03	0.01
194	27.11	12	SLE Q	5	3	447.00	-509.59	42.00	198.00	0.50	16.00	172.83	4.02	223.25	574.34	0.17	0.05
195	27.11	11	SLE F	5	3	447.00	-515.84	42.00	198.00	0.50	16.00	172.83	4.02	223.25	581.38	0.17	0.05
206	27.51	12	SLE Q	6	3	20.00	-680.62	42.00	198.00	0.50	16.00	172.83	4.02	223.25	767.10	0.22	0.07
207	27.51	11	SLE F	6	3	20.00	-660.00	42.00	198.00	0.50	16.00	172.83	4.02	223.25	743.86	0.22	0.06
221	31.14	12	SLE Q	6	3	383.27	279.13	42.00	198.00	0.50	16.00	172.83	4.02	223.25	314.60	0.09	0.03
222	31.14	11	SLE F	6	3	383.27	272.17	42.00	198.00	0.50	16.00	172.83	4.02	223.25	306.75	0.09	0.03
233	32.51	12	SLE Q	6	3	520.00	-213.93	42.00	198.00	0.50	16.00	172.83	4.02	223.25	241.12	0.07	0.02
234	32.51	11	SLE F	6	3	520.00	-233.52	42.00	198.00	0.50	16.00	172.83	4.02	223.25	263.19	0.08	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 TGND	0.00	0.30	0.30	ø8/ 6 2 br.	16.76	0.50	1261.08	2.37	35020.20	35020.20	35020.20	27.770
7 TGND	0.30	4.69	4.39	ø10/20 2 br.	7.85	0.50	1503.97	2.50	17287.30	33754.50	17287.30	11.495
7 TGND	4.69	4.99	0.30	ø8/ 6 2 br.	16.76	0.50	1616.47	2.37	35020.20	35020.20	35020.20	21.665
5 TGND	5.39	5.69	0.30	ø8/ 6 2 br.	16.76	0.50	1327.73	2.37	35020.20	35020.20	35020.20	26.376
7 TGND	5.69	10.54	4.85	ø10/20 2 br.	7.85	0.50	1349.43	2.50	17287.30	33754.50	17287.30	12.811
7 TGND	10.54	10.84	0.30	ø8/ 6 2 br.	16.76	0.50	1461.93	2.37	35020.20	35020.20	35020.20	23.955
5 TGND	11.24	11.54	0.30	ø8/ 6 2 br.	16.76	0.50	1335.35	2.37	35020.20	35020.20	35020.20	26.225

7 TGND	11.54	16.34	4.80	ø10/20 2 br.	7.85	0.50	1385.19	2.50	17287.30	33754.50	17287.30	12.480
7 TGND	16.34	16.64	0.30	ø8/ 6 2 br.	16.76	0.50	1497.69	2.37	35020.20	35020.20	35020.20	23.383
5 TGND	17.04	17.34	0.30	ø8/ 6 2 br.	16.76	0.50	1326.18	2.37	35020.20	35020.20	35020.20	26.407
7 TGND	17.34	22.14	4.80	ø10/20 2 br.	7.85	0.50	1348.08	2.50	17287.30	33754.50	17287.30	12.824
7 TGND	22.14	22.44	0.30	ø8/ 6 2 br.	16.76	0.50	1460.58	2.37	35020.20	35020.20	35020.20	23.977
5 TGND	22.84	23.14	0.30	ø8/ 6 2 br.	16.76	0.30	867.32	1.73	25471.60	25471.60	25471.60	29.368
7 TGND	23.14	26.81	3.67	ø8/20 2 br.	5.03	0.30	940.18	2.50	11063.90	20252.70	11063.90	11.768
7 TGND	26.81	27.11	0.30	ø8/ 6 2 br.	16.76	0.30	1007.68	1.73	25471.60	25471.60	25471.60	25.277
5 TGND	27.51	27.81	0.30	ø8/ 6 2 br.	16.76	0.30	1070.70	1.73	25471.60	25471.60	25471.60	23.790
5 TGND	27.81	32.21	4.40	ø8/20 2 br.	5.03	0.30	1003.20	2.50	11063.90	20252.70	11063.90	11.029
7 TGND	32.21	32.51	0.30	ø8/ 6 2 br.	16.76	0.30	884.02	1.73	25471.60	25471.60	25471.60	28.813

Travata n. 111

Nodi: 116 120 129

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
3	R	30.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.20	5	SLV	1	447.00	4.02	4.02	4.02	4.02	1038.94	3741.10	3.601
4.47	5	SLV	1	20.00	4.02	4.02	4.02	4.02	-2006.98	-3741.10	1.864
4.87	5	SLV	2	500.00	4.02	4.02	4.02	4.02	-1090.90	-3741.10	3.429
6.06	5	SLV	2	381.16	4.02	4.02	4.02	4.02	670.88	3741.10	5.576
9.87	5	SLV	2	0.00	4.02	4.02	4.02	4.02	-1641.56	-3741.10	2.279

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.20	10	SLE R	1	447.00	4.02	4.02	195.36	-34.00	220.19	6.50
0.20	12	SLE Q	1	447.00	4.02	4.02	159.26	-27.72	179.50	5.30
4.47	10	SLE R	1	20.00	4.02	4.02	-1076.63	1213.42	-187.37	35.84
4.47	12	SLE Q	1	20.00	4.02	4.02	-1041.37	1173.68	-181.24	34.66
4.87	10	SLE R	2	500.00	4.02	4.02	-297.94	335.80	-51.85	9.92
4.87	12	SLE Q	2	500.00	4.02	4.02	-406.62	458.29	-70.77	13.54
6.06	10	SLE R	2	381.16	4.02	4.02	406.22	-70.70	457.83	13.52
6.06	12	SLE Q	2	381.16	4.02	4.02	355.90	-61.94	401.12	11.85
9.87	10	SLE R	2	0.00	4.02	4.02	-1072.85	1209.16	-186.72	35.71
9.87	12	SLE Q	2	0.00	4.02	4.02	-967.41	1090.32	-168.36	32.20

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	0.20	12	SLE Q	1	3	447.00	159.26	42.00	198.00	0.50	16.00	172.83	4.02	223.25	179.50	0.05	0.02
13	0.20	11	SLE F	1	3	447.00	168.57	42.00	198.00	0.50	16.00	172.83	4.02	223.25	189.99	0.06	0.02
25	4.47	12	SLE Q	1	3	20.00	-1041.37	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1173.68	0.34	0.10
26	4.47	11	SLE F	1	3	20.00	-1050.55	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1184.03	0.34	0.10
39	4.87	12	SLE Q	2	3	500.00	-406.62	42.00	198.00	0.50	16.00	172.83	4.02	223.25	458.29	0.13	0.04
40	4.87	11	SLE F	2	3	500.00	-378.63	42.00	198.00	0.50	16.00	172.83	4.02	223.25	426.74	0.12	0.04
55	6.06	12	SLE Q	2	3	381.16	355.90	42.00	198.00	0.50	16.00	172.83	4.02	223.25	401.12	0.12	0.03
56	6.06	11	SLE F	2	3	381.16	368.85	42.00	198.00	0.50	16.00	172.83	4.02	223.25	415.71	0.12	0.04
67	9.87	12	SLE Q	2	3	0.00	-967.41	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1090.32	0.32	0.09
68	9.87	11	SLE F	2	3	0.00	-994.62	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1120.98	0.33	0.10

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
7 TGND	0.20	0.50	0.30	ø8/ 6 2 br.	16.76	0.30	1399.60	1.73	25471.60	25471.60	25471.60	18.199
5 TGND	0.50	4.17	3.67	ø8/20 2 br.	5.03	0.30	1793.82	2.50	11063.90	20252.70	11063.90	6.168
5 TGND	4.17	4.47	0.30	ø8/ 6 2 br.	16.76	0.30	1897.32	1.73	25471.60	25471.60	25471.60	13.425
7 TGND	4.87	5.17	0.30	ø8/ 6 2 br.	16.76	0.30	1314.91	1.73	25471.60	25471.60	25471.60	19.371
5 TGND	5.17	9.57	4.40	ø8/20 2 br.	5.03	0.30	1435.72	2.50	11063.90	20252.70	11063.90	7.706
5 TGND	9.57	9.87	0.30	ø8/ 6 2 br.	16.76	0.30	1539.22	1.73	25471.60	25471.60	25471.60	16.548

Travata n. 199

Nodi: 125 102

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>
3	R	30.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.00	1	SLV	1	0.00	4.02	4.02	4.02	4.02	-1416.16	-3741.10	2.642
4.28	1	SLV	1	428.04	4.02	4.02	4.02	4.02	-1172.04	-3741.10	3.192
4.99	1	SLV	1	499.00	4.02	4.02	4.02	4.02	-1580.44	-3741.10	2.367

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.00	10	SLE R	1	0.00	4.02	4.02	-393.63	443.65	-68.51	13.10
0.00	12	SLE Q	1	0.00	4.02	4.02	-399.06	449.77	-69.45	13.28
4.28	10	SLE R	1	428.04	4.02	4.02	-160.53	180.93	-27.94	5.34
4.28	12	SLE Q	1	428.04	4.02	4.02	-159.14	179.36	-27.70	5.30
4.99	10	SLE R	1	499.00	4.02	4.02	-379.10	427.26	-65.98	12.62
4.99	12	SLE Q	1	499.00	4.02	4.02	-377.06	424.97	-65.62	12.55

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>
11	0.00	12	SLE Q	1	3	0.00	-399.06	42.00	198.00	0.50	16.00	172.83	4.02	223.25	449.77	0.13	0.04
12	0.00	11	SLE F	1	3	0.00	-399.48	42.00	198.00	0.50	16.00	172.83	4.02	223.25	450.24	0.13	0.04
26	4.28	12	SLE Q	1	3	428.04	-159.14	42.00	198.00	0.50	16.00	172.83	4.02	223.25	179.36	0.05	0.02
28	4.28	11	SLE F	1	3	428.04	-157.82	42.00	198.00	0.50	16.00	172.83	4.02	223.25	177.87	0.05	0.02
40	4.99	12	SLE Q	1	3	499.00	-377.06	42.00	198.00	0.50	16.00	172.83	4.02	223.25	424.97	0.12	0.04
41	4.99	11	SLE F	1	3	499.00	-375.58	42.00	198.00	0.50	16.00	172.83	4.02	223.25	423.31	0.12	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 TGND	0.00	0.30	0.30	ø8/ 6 2 br.	16.76	0.30	1478.30	1.73	25471.60	25471.60	25471.60	17.230
1 TGND	0.30	4.69	4.39	ø8/20 2 br.	5.03	0.30	1410.80	2.50	11063.90	20252.70	11063.90	7.842
7 TGND	4.69	4.99	0.30	ø8/ 6 2 br.	16.76	0.30	1469.48	1.73	25471.60	25471.60	25471.60	17.334

Travata n. 208

Nodi: 205 -1444 -1447 -1450 -1453 -1456 209 -1461 -1464 -1467 -1470 -1473 213 -1478 -1481 -1484 -1487 217 -1492 -1495 -1498 -1501 -1504 221

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>
5	R	30.00	25.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.20	9	SLU	1	20.00	4.02	4.02	4.02	4.02	-2486.52	-2954.33	1.188
2.41	9	SLU	3	47.24	4.02	4.02	4.02	4.02	1229.24	2954.33	2.403
5.60	9	SLU	6	76.67	4.02	4.02	4.02	4.02	-2410.14	-2954.33	1.226
6.00	9	SLU	7	20.00	4.02	4.02	4.02	4.02	-2305.42	-2954.33	1.281
8.16	9	SLU	9	42.78	4.02	4.02	4.02	4.02	1187.12	2954.33	2.489
11.40	9	SLU	12	76.67	4.02	4.02	4.02	4.02	-2426.90	-2954.33	1.217
11.80	1	SLV	13	20.00	4.02	4.02	4.02	4.02	-1655.01	-2954.33	1.785
13.78	9	SLU	15	31.13	4.02	4.02	4.02	4.02	784.87	2954.33	3.764
16.07	1	SLV	17	73.40	4.02	4.02	4.02	4.02	-1796.40	-2954.33	1.645
16.47	1	SLV	18	20.00	4.02	4.02	4.02	4.02	-2138.72	-2954.33	1.381
18.97	9	SLU	21	10.00	4.02	4.02	4.02	4.02	1115.65	2954.33	2.648
21.47	9	SLU	23	86.67	4.02	4.02	4.02	4.02	-1839.70	-2954.33	1.606

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.20	10	SLE R	1	20.00	4.02	4.02	-1784.09	2554.19	-344.26	87.36
0.20	12	SLE Q	1	20.00	4.02	4.02	-1621.28	2321.10	-312.84	79.39
2.41	10	SLE R	3	47.24	4.02	4.02	883.05	-170.39	1264.22	43.24
2.41	12	SLE Q	3	47.24	4.02	4.02	806.16	-155.56	1154.14	39.47
5.60	10	SLE R	6	76.67	4.02	4.02	-1730.81	2477.89	-333.98	84.75
5.60	12	SLE Q	6	76.67	4.02	4.02	-1593.82	2281.78	-307.54	78.04
6.00	10	SLE R	7	20.00	4.02	4.02	-1653.97	2367.90	-319.15	80.99
6.00	12	SLE Q	7	20.00	4.02	4.02	-1498.76	2145.68	-289.20	73.39
8.16	10	SLE R	9	42.78	4.02	4.02	854.52	-164.89	1223.37	41.84
8.16	12	SLE Q	9	42.78	4.02	4.02	773.97	-149.34	1108.05	37.90
11.40	10	SLE R	12	76.67	4.02	4.02	-1746.55	2500.44	-337.01	85.52
11.40	12	SLE Q	12	76.67	4.02	4.02	-1596.55	2285.69	-308.07	78.18
11.80	10	SLE R	13	20.00	4.02	4.02	-913.78	1308.21	-176.32	44.74
11.80	12	SLE Q	13	20.00	4.02	4.02	-825.32	1181.56	-159.25	40.41
13.78	10	SLE R	15	31.13	4.02	4.02	564.59	-108.94	808.29	27.65
13.78	12	SLE Q	15	31.13	4.02	4.02	511.76	-98.75	732.66	25.06
16.07	10	SLE R	17	73.40	4.02	4.02	-1059.33	1516.59	-204.41	51.87
16.07	12	SLE Q	17	73.40	4.02	4.02	-970.87	1389.94	-187.34	47.54
16.47	10	SLE R	18	20.00	4.02	4.02	-1528.25	2187.91	-294.89	74.83
16.47	12	SLE Q	18	20.00	4.02	4.02	-1386.35	1984.75	-267.51	67.88
18.97	10	SLE R	21	10.00	4.02	4.02	802.27	-154.81	1148.57	39.28
18.97	12	SLE Q	21	10.00	4.02	4.02	726.55	-140.19	1040.16	35.58
21.47	10	SLE R	23	86.67	4.02	4.02	-1325.42	1897.53	-255.75	64.90
21.47	12	SLE Q	23	86.67	4.02	4.02	-1208.88	1730.68	-233.26	59.19

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.20	12	SLE Q	1	5	20.00	-1621.28	42.00	198.00	0.50	16.00	156.49	4.02	182.18	2321.10	0.83	0.22
12	0.20	11	SLE F	1	5	20.00	-1622.27	42.00	198.00	0.50	16.00	156.49	4.02	182.18	2322.52	0.69	0.18
23	2.41	12	SLE Q	3	5	47.24	806.16	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1154.14	0.34	0.09
24	2.41	11	SLE F	3	5	47.24	806.09	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1154.03	0.34	0.09
35	5.60	12	SLE Q	6	5	76.67	-1593.82	42.00	198.00	0.50	16.00	156.49	4.02	182.18	2281.78	0.81	0.22
36	5.60	11	SLE F	6	5	76.67	-1592.69	42.00	198.00	0.50	16.00	156.49	4.02	182.18	2280.16	0.67	0.18
47	6.00	12	SLE Q	7	5	20.00	-1498.76	42.00	198.00	0.50	16.00	156.49	4.02	182.18	2145.68	0.75	0.20
48	6.00	11	SLE F	7	5	20.00	-1500.03	42.00	198.00	0.50	16.00	156.49	4.02	182.18	2147.50	0.63	0.17
59	8.16	12	SLE Q	9	5	42.78	773.97	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1108.05	0.32	0.09
60	8.16	11	SLE F	9	5	42.78	773.84	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1107.86	0.32	0.09
71	11.40	12	SLE Q	12	5	76.67	-1596.55	42.00	198.00	0.50	16.00	156.49	4.02	182.18	2285.69	0.82	0.22
72	11.40	11	SLE F	12	5	76.67	-1595.36	42.00	198.00	0.50	16.00	156.49	4.02	182.18	2283.99	0.67	0.18
83	11.80	12	SLE Q	13	5	20.00	-825.32	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1181.56	0.34	0.09
84	11.80	11	SLE F	13	5	20.00	-826.44	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1183.17	0.34	0.09
95	13.78	12	SLE Q	15	5	31.13	511.76	42.00	198.00	0.50	16.00	156.49	4.02	182.18	732.66	0.21	0.06
96	13.78	11	SLE F	15	5	31.13	511.73	42.00	198.00	0.50	16.00	156.49	4.02	182.18	732.61	0.21	0.06
107	16.07	12	SLE Q	17	5	73.40	-970.87	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1389.94	0.40	0.11
108	16.07	11	SLE F	17	5	73.40	-969.93	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1388.59	0.40	0.11
119	16.47	12	SLE Q	18	5	20.00	-1386.35	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1984.75	0.67	0.18
120	16.47	11	SLE F	18	5	20.00	-1387.11	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1985.85	0.58	0.15
131	18.97	12	SLE Q	21	5	10.00	726.55	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1040.16	0.30	0.08
132	18.97	11	SLE F	21	5	10.00	726.59	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1040.22	0.30	0.08
143	21.47	12	SLE Q	23	5	86.67	-1208.88	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1730.68	0.55	0.15
144	21.47	11	SLE F	23	5	86.67	-1208.23	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1729.75	0.50	0.13

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.20	0.45	0.25	ø8/ 5 2 br.	20.11	0.30	3063.78	1.52	21560.50	21560.50	21560.50	7.037
9 SLU	0.45	5.35	4.90	ø8/15 2 br.	6.70	0.30	2890.34	2.50	11801.50	16202.20	11801.50	4.083
9 SLU	5.35	5.60	0.25	ø8/ 5 2 br.	20.11	0.30	2597.02	1.52	21560.50	21560.50	21560.50	8.302
9 SLU	6.00	6.25	0.25	ø8/ 5 2 br.	20.11	0.30	2523.02	1.52	21560.50	21560.50	21560.50	8.545
9 SLU	6.25	11.15	4.90	ø8/15 2 br.	6.70	0.30	2531.47	2.50	11801.50	16202.20	11801.50	4.662
9 SLU	11.15	11.40	0.25	ø8/ 5 2 br.	20.11	0.30	2704.90	1.52	21560.50	21560.50	21560.50	7.971
TG	11.80	12.05	0.25	ø8/ 5 2 br.	20.11	0.30	2562.95	1.52	21560.50	21560.50	21560.50	8.412
TG	12.05	15.82	3.77	ø8/15 2 br.	6.70	0.30	2441.08	2.50	11801.50	16202.20	11801.50	4.835
TG	15.82	16.07	0.25	ø8/ 5 2 br.	20.11	0.30	2562.95	1.52	21560.50	21560.50	21560.50	8.412
9 SLU	16.47	16.72	0.25	ø8/ 5 2 br.	20.11	0.30	2798.63	1.52	21560.50	21560.50	21560.50	7.704
9 SLU	16.72	21.22	4.50	ø8/15 2 br.	6.70	0.30	2625.20	2.50	11801.50	16202.20	11801.50	4.495
9 SLU	21.22	21.47	0.25	ø8/ 5 2 br.	20.11	0.30	1569.23	1.52	21560.50	21560.50	21560.50	13.739

Travata n. 211

Nodi: 204 208 212 216 220 222

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>
5	R	30.00	25.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	9	SLU	1	565.00	4.02	4.02	4.02	4.02	-1594.40	-2954.33	1.853
2.93	9	SLU	1	312.14	4.02	4.02	4.02	4.02	1000.92	2954.33	2.952
5.85	9	SLU	1	20.00	4.02	4.02	4.02	4.02	-1738.27	-2954.33	1.700
6.25	9	SLU	2	560.00	4.02	4.02	4.02	4.02	-1648.35	-2954.33	1.792
8.79	9	SLU	2	305.88	4.02	4.02	4.02	4.02	960.81	2954.33	3.075
11.65	9	SLU	2	20.00	4.02	4.02	4.02	4.02	-1662.17	-2954.33	1.777
12.05	9	SLU	3	560.00	4.02	4.02	4.02	4.02	-1697.43	-2954.33	1.740
14.59	9	SLU	3	305.88	4.02	4.02	4.02	4.02	964.33	2954.33	3.064
17.45	9	SLU	3	20.00	4.02	4.02	4.02	4.02	-1607.09	-2954.33	1.838
17.85	5	SLV	4	447.00	4.02	4.02	4.02	4.02	-1268.64	-2954.33	2.329
19.01	5	SLV	4	331.13	4.02	4.02	4.02	4.02	677.14	2954.33	4.363
22.12	5	SLV	4	20.00	4.02	4.02	4.02	4.02	-1743.96	-2954.33	1.694
22.52	5	SLV	5	500.00	4.02	4.02	4.02	4.02	-1343.14	-2954.33	2.200
24.61	9	SLU	5	291.06	4.02	4.02	4.02	4.02	847.34	2954.33	3.487
27.52	9	SLU	5	0.00	4.02	4.02	4.02	4.02	-1763.60	-2954.33	1.675

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	565.00	4.02	4.02	-1118.59	1601.41	-215.84	54.77
0.40	12	SLE Q	1	565.00	4.02	4.02	-1110.00	1589.12	-214.19	54.35
2.93	10	SLE R	1	312.14	4.02	4.02	703.40	-135.73	1007.02	34.44
2.93	12	SLE Q	1	312.14	4.02	4.02	703.48	-135.74	1007.14	34.45
5.85	10	SLE R	1	20.00	4.02	4.02	-1223.25	1751.26	-236.04	59.90
5.85	12	SLE Q	1	20.00	4.02	4.02	-1231.96	1763.73	-237.72	60.32
6.25	10	SLE R	2	560.00	4.02	4.02	-1156.28	1655.37	-223.11	56.62
6.25	12	SLE Q	2	560.00	4.02	4.02	-1149.86	1646.18	-221.88	56.30
8.79	10	SLE R	2	305.88	4.02	4.02	675.13	-130.27	966.54	33.06

8.79	12	SLE Q	2	305.88	4.02	4.02	675.07	-130.26	966.46	33.06
11.65	10	SLE R	2	20.00	4.02	4.02	-1170.11	1675.18	-225.78	57.30
11.65	12	SLE Q	2	20.00	4.02	4.02	-1176.66	1684.56	-227.05	57.62
12.05	10	SLE R	3	560.00	4.02	4.02	-1190.37	1704.18	-229.69	58.29
12.05	12	SLE Q	3	560.00	4.02	4.02	-1182.27	1692.59	-228.13	57.89
14.59	10	SLE R	3	305.88	4.02	4.02	677.60	-130.75	970.08	33.18
14.59	12	SLE Q	3	305.88	4.02	4.02	677.26	-130.68	969.59	33.16
17.45	10	SLE R	3	20.00	4.02	4.02	-1131.74	1620.25	-218.38	55.42
17.45	12	SLE Q	3	20.00	4.02	4.02	-1140.34	1632.56	-220.04	55.84
17.85	10	SLE R	4	447.00	4.02	4.02	-480.49	687.89	-92.72	23.53
17.85	12	SLE Q	4	447.00	4.02	4.02	-490.16	701.73	-94.58	24.00
19.01	10	SLE R	4	331.13	4.02	4.02	364.87	-70.40	522.36	17.87
19.01	12	SLE Q	4	331.13	4.02	4.02	360.98	-69.65	516.79	17.68
22.12	10	SLE R	4	20.00	4.02	4.02	-978.23	1400.48	-188.76	47.90
22.12	12	SLE Q	4	20.00	4.02	4.02	-968.98	1387.23	-186.97	47.45
22.52	10	SLE R	5	500.00	4.02	4.02	-777.76	1113.47	-150.08	38.08
22.52	12	SLE Q	5	500.00	4.02	4.02	-836.26	1197.22	-161.36	40.95
24.61	10	SLE R	5	291.06	4.02	4.02	592.45	-114.32	848.18	29.01
24.61	12	SLE Q	5	291.06	4.02	4.02	587.62	-113.39	841.27	28.77
27.52	10	SLE R	5	0.00	4.02	4.02	-1207.01	1728.00	-232.90	59.10
27.52	12	SLE Q	5	0.00	4.02	4.02	-1148.61	1644.39	-221.63	56.24

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.40	12	SLE Q	1	5	565.00	-1110.00	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1589.12	0.48	0.13
12	0.40	11	SLE F	1	5	565.00	-1111.81	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1591.71	0.46	0.12
23	2.93	12	SLE Q	1	5	312.14	703.48	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1007.14	0.29	0.08
24	2.93	11	SLE F	1	5	312.14	703.47	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1007.11	0.29	0.08
35	5.85	12	SLE Q	1	5	20.00	-1231.96	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1763.73	0.56	0.15
36	5.85	11	SLE F	1	5	20.00	-1230.13	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1761.10	0.51	0.14
47	6.25	12	SLE Q	2	5	560.00	-1149.86	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1646.18	0.50	0.13
48	6.25	11	SLE F	2	5	560.00	-1151.21	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1648.12	0.48	0.13
59	8.79	12	SLE Q	2	5	305.88	675.07	42.00	198.00	0.50	16.00	156.49	4.02	182.18	966.46	0.28	0.07
60	8.79	11	SLE F	2	5	305.88	675.09	42.00	198.00	0.50	16.00	156.49	4.02	182.18	966.48	0.28	0.07
71	11.65	12	SLE Q	2	5	20.00	-1176.66	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1684.56	0.52	0.14
72	11.65	11	SLE F	2	5	20.00	-1175.28	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1682.58	0.49	0.13
83	12.05	12	SLE Q	3	5	560.00	-1182.27	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1692.59	0.53	0.14
84	12.05	11	SLE F	3	5	560.00	-1184.00	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1695.06	0.49	0.13
95	14.59	12	SLE Q	3	5	305.88	677.26	42.00	198.00	0.50	16.00	156.49	4.02	182.18	969.59	0.28	0.08
96	14.59	11	SLE F	3	5	305.88	677.34	42.00	198.00	0.50	16.00	156.49	4.02	182.18	969.71	0.28	0.08
107	17.45	12	SLE Q	3	5	20.00	-1140.34	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1632.56	0.50	0.13
108	17.45	11	SLE F	3	5	20.00	-1138.49	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1629.91	0.47	0.13
119	17.85	12	SLE Q	4	5	447.00	-490.16	42.00	198.00	0.50	16.00	156.49	4.02	182.18	701.73	0.20	0.05
120	17.85	11	SLE F	4	5	447.00	-487.23	42.00	198.00	0.50	16.00	156.49	4.02	182.18	697.54	0.20	0.05
134	19.01	12	SLE Q	4	5	331.13	360.98	42.00	198.00	0.50	16.00	156.49	4.02	182.18	516.79	0.15	0.04
135	19.01	11	SLE F	4	5	331.13	362.15	42.00	198.00	0.50	16.00	156.49	4.02	182.18	518.47	0.15	0.04
146	22.12	12	SLE Q	4	5	20.00	-968.98	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1387.23	0.40	0.11
147	22.12	11	SLE F	4	5	20.00	-971.80	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1391.27	0.41	0.11
158	22.52	12	SLE Q	5	5	500.00	-836.26	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1197.22	0.35	0.09
159	22.52	11	SLE F	5	5	500.00	-821.13	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1175.56	0.34	0.09
170	24.61	12	SLE Q	5	5	291.06	587.62	42.00	198.00	0.50	16.00	156.49	4.02	182.18	841.27	0.25	0.07
171	24.61	11	SLE F	5	5	291.06	588.89	42.00	198.00	0.50	16.00	156.49	4.02	182.18	843.08	0.25	0.07
182	27.52	12	SLE Q	5	5	0.00	-1148.61	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1644.39	0.50	0.13
183	27.52	11	SLE F	5	5	0.00	-1163.68	42.00	198.00	0.50	16.00	156.49	4.02	182.18	1665.97	0.49	0.13

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.65	0.25	ø8/ 5 2 br.	20.11	0.30	1864.07	1.52	21560.50	21560.50	21560.50	11.566
9 SLU	0.65	5.60	4.95	ø8/15 2 br.	6.70	0.30	1743.43	2.50	11801.50	16202.20	11801.50	6.769
9 SLU	5.60	5.85	0.25	ø8/ 5 2 br.	20.11	0.30	1916.87	1.52	21560.50	21560.50	21560.50	11.248
9 SLU	6.25	6.50	0.25	ø8/ 5 2 br.	20.11	0.30	1870.57	1.52	21560.50	21560.50	21560.50	11.526
9 SLU	6.50	11.40	4.90	ø8/15 2 br.	6.70	0.30	1702.25	2.50	11801.50	16202.20	11801.50	6.933
9 SLU	11.40	11.65	0.25	ø8/ 5 2 br.	20.11	0.30	1875.68	1.52	21560.50	21560.50	21560.50	11.495
9 SLU	12.05	12.30	0.25	ø8/ 5 2 br.	20.11	0.30	1889.85	1.52	21560.50	21560.50	21560.50	11.409
9 SLU	12.30	17.20	4.90	ø8/15 2 br.	6.70	0.30	1716.42	2.50	11801.50	16202.20	11801.50	6.876
9 SLU	17.20	17.45	0.25	ø8/ 5 2 br.	20.11	0.30	1856.39	1.52	21560.50	21560.50	21560.50	11.614
7 TGND	17.85	18.10	0.25	ø8/ 5 2 br.	20.11	0.30	1685.05	1.52	21560.50	21560.50	21560.50	12.795
5 TGND	18.10	21.87	3.77	ø8/15 2 br.	6.70	0.30	1787.45	2.50	11801.50	16202.20	11801.50	6.602
5 TGND	21.87	22.12	0.25	ø8/ 5 2 br.	20.11	0.30	1909.33	1.52	21560.50	21560.50	21560.50	11.292
9 SLU	22.52	22.77	0.25	ø8/ 5 2 br.	20.11	0.30	1593.70	1.53	21657.50	21657.50	21657.50	13.589
9 SLU	22.77	27.27	4.50	ø8/15 2 br.	6.70	0.30	1701.61	2.50	11801.50	16304.30	11801.50	6.935
9 SLU	27.27	27.52	0.25	ø8/ 5 2 br.	20.11	0.30	1875.05	1.53	21657.50	21657.50	21657.50	11.550

Travata n. 301

Nodi: 301 302 303 304

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	1	SLV	1	475.00	10.30	8.04	10.30	8.04	-8672.26	-9106.50	1.050
2.22	9	SLU	1	302.91	10.30	8.04	10.30	8.04	6110.79	7310.79	1.196
4.65	1	SLV	1	60.00	15.46	8.04	15.46	8.04	-9780.43	-13143.60	1.344
5.25	1	SLV	2	500.00	15.46	8.04	15.46	8.04	-12408.40	-13143.60	1.059
7.50	9	SLU	2	275.44	10.30	16.09	10.30	16.09	6357.98	13637.90	2.145
10.25	1	SLV	2	0.00	15.46	8.04	15.46	8.04	-12803.60	-13143.60	1.027
10.85	1	SLV	3	465.00	15.46	8.04	15.46	8.04	-10738.40	-13143.60	1.224
12.93	9	SLU	3	257.50	10.30	8.04	10.30	8.04	5656.84	7310.79	1.292
15.00	1	SLV	3	50.00	10.30	8.04	10.30	8.04	-8707.36	-9106.50	1.046

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	475.00	10.30	8.04	-4216.40	1891.88	-465.95	70.36
0.50	12	SLE Q	1	475.00	10.30	8.04	-3711.54	1665.35	-410.16	61.94
2.22	10	SLE R	1	302.91	10.30	8.04	4297.68	-429.05	2449.61	76.58
2.22	12	SLE Q	1	302.91	10.30	8.04	3788.01	-378.17	2159.11	67.50
4.65	10	SLE R	1	60.00	15.46	8.04	-5522.15	1683.11	-627.88	80.38
4.65	12	SLE Q	1	60.00	15.46	8.04	-4867.05	1483.44	-553.39	70.84
5.25	10	SLE R	2	500.00	15.46	8.04	-8439.96	2572.44	-959.64	122.84
5.25	12	SLE Q	2	500.00	15.46	8.04	-7363.48	2244.33	-837.24	107.18
7.50	10	SLE R	2	275.44	10.30	16.09	4469.87	-483.21	1312.29	62.14
7.50	12	SLE Q	2	275.44	10.30	16.09	3938.18	-425.73	1156.19	54.75
10.25	10	SLE R	2	0.00	15.46	8.04	-8878.65	2706.15	-1009.52	129.23
10.25	12	SLE Q	2	0.00	15.46	8.04	-7898.13	2407.29	-898.03	114.96
10.85	10	SLE R	3	465.00	15.46	8.04	-6390.17	1947.68	-726.57	93.01
10.85	12	SLE Q	3	465.00	15.46	8.04	-5653.51	1723.15	-642.81	82.29
12.93	10	SLE R	3	257.50	10.30	8.04	3978.98	-397.24	2267.95	70.90
12.93	12	SLE Q	3	257.50	10.30	8.04	3507.18	-350.14	1999.04	62.50
15.00	10	SLE R	3	50.00	10.30	8.04	-3985.96	1788.48	-440.49	66.52
15.00	12	SLE Q	3	50.00	10.30	8.04	-3489.85	1565.88	-385.66	58.24

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.50	12	SLE Q	1	4	475.00	-3711.54	41.00	131.33	0.50	18.22	144.03	10.30	350.79	1665.35	0.58	0.14
12	0.50	11	SLE F	1	4	475.00	-3804.23	41.00	131.33	0.50	18.22	144.03	10.30	350.79	1706.94	0.50	0.12
23	2.22	12	SLE Q	1	4	302.91	3788.01	42.00	131.33	0.50	16.00	157.01	8.04	366.99	2159.11	0.75	0.20
24	2.22	11	SLE F	1	4	302.91	3883.88	42.00	131.33	0.50	16.00	157.01	8.04	366.98	2213.75	0.64	0.17
36	4.65	12	SLE Q	1	4	60.00	-4867.05	41.00	78.80	0.50	18.22	120.44	15.46	326.10	1483.44	0.56	0.12
37	4.65	11	SLE F	1	4	60.00	-4991.43	41.00	78.80	0.50	18.22	120.44	15.46	326.10	1521.35	0.50	0.10
48	5.25	12	SLE Q	2	4	500.00	-7363.48	41.00	78.80	0.50	18.22	120.44	15.46	326.10	2244.33	0.93	0.19
49	5.25	11	SLE F	2	4	500.00	-7562.91	41.00	78.80	0.50	18.22	120.44	15.46	326.10	2305.12	0.88	0.18
60	7.50	12	SLE Q	2	4	275.44	3938.18	42.00	56.29	0.50	16.00	116.52	16.09	326.96	1156.19	0.41	0.08
61	7.50	11	SLE F	2	4	275.44	4038.13	42.00	56.29	0.50	16.00	116.52	16.09	326.96	1185.53	0.35	0.07
72	10.25	12	SLE Q	2	4	0.00	-7898.13	41.00	78.80	0.50	18.22	120.44	15.46	326.10	2407.29	1.01	0.21
73	10.25	11	SLE F	2	4	0.00	-8083.92	41.00	78.80	0.50	18.22	120.44	15.46	326.10	2463.92	0.96	0.20
86	10.85	12	SLE Q	3	4	465.00	-5653.51	41.00	78.80	0.50	18.22	120.44	15.46	326.10	1723.15	0.68	0.14
87	10.85	11	SLE F	3	4	465.00	-5788.13	41.00	78.80	0.50	18.22	120.44	15.46	326.10	1764.18	0.62	0.13
98	12.93	12	SLE Q	3	4	257.50	3507.18	42.00	131.33	0.50	16.00	157.01	8.04	366.98	1999.04	0.67	0.18
99	12.93	11	SLE F	3	4	257.50	3593.89	42.00	131.33	0.50	16.00	157.01	8.04	366.99	2048.46	0.60	0.16
111	15.00	12	SLE Q	3	4	50.00	-3489.85	41.00	131.33	0.50	18.22	144.03	10.30	350.79	1565.88	0.53	0.13
112	15.00	11	SLE F	3	4	50.00	-3588.90	41.00	131.33	0.50	18.22	144.03	10.30	350.79	1610.32	0.47	0.11

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	11795.30	2.37	35020.20	35020.20	35020.20	2.969
1 TGND	0.80	4.35	3.55	ø10/20 2 br.	7.85	0.50	11585.70	2.50	17287.30	33754.50	17287.30	1.492
1 TGND	4.35	4.65	0.30	ø8/ 6 2 br.	16.76	0.50	12661.80	2.37	35020.20	35020.20	35020.20	2.766
9 SLU	5.25	5.55	0.30	ø8/ 6 2 br.	16.76	0.50	14367.90	2.37	35020.20	35020.20	35020.20	2.437
9 SLU	5.55	9.95	4.40	ø10/20 2 br.	7.85	0.50	12842.70	2.50	17287.30	33754.50	17287.30	1.346
9 SLU	9.95	10.25	0.30	ø8/ 6 2 br.	16.76	0.50	14579.60	2.37	35020.20	35020.20	35020.20	2.402
TG	10.85	11.15	0.30	ø8/ 6 2 br.	16.76	0.50	12864.70	2.37	35020.20	35020.20	35020.20	2.722
TG	11.15	14.70	3.55	ø10/20 2 br.	7.85	0.50	11788.60	2.50	17287.30	33754.50	17287.30	1.466
TG	14.70	15.00	0.30	ø8/ 6 2 br.	16.76	0.50	11795.30	2.37	35020.20	35020.20	35020.20	2.969

Travata n. 302

Nodi: 305 306 307 308

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	9	SLU	1	475.00	12.57	11.44	12.57	11.44	-9757.62	-10888.10	1.116
2.32	9	SLU	1	292.86	12.57	11.44	12.57	11.44	9601.22	9995.59	1.041
4.75	9	SLU	1	50.00	25.13	15.46	25.13	15.46	-14732.50	-20608.10	1.399

5.25	9	SLU	2	500.00	25.13	15.46	25.13	15.46	-20066.90	-20608.10	1.027
7.68	9	SLU	2	256.53	12.57	22.87	12.57	22.87	10113.90	18846.30	1.863
10.25	9	SLU	2	0.00	25.13	15.46	25.13	15.46	-19399.30	-20608.10	1.062
10.75	9	SLU	3	475.00	25.13	15.46	25.13	15.46	-14966.40	-20608.10	1.377
12.88	9	SLU	3	262.50	12.57	11.44	12.57	11.44	9667.59	9995.59	1.034
15.00	1	SLV	3	50.00	12.57	11.44	12.57	11.44	-9490.99	-10888.10	1.147

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	475.00	12.57	11.44	-6877.34	2557.58	-715.50	102.25
0.50	12	SLE Q	1	475.00	12.57	11.44	-5767.76	2144.94	-600.06	85.75
2.32	10	SLE R	1	292.86	12.57	11.44	6781.86	-681.45	2762.50	102.83
2.32	12	SLE Q	1	292.86	12.57	11.44	5806.08	-583.40	2365.03	88.03
4.75	10	SLE R	1	50.00	25.13	15.46	-10416.70	1997.50	-1013.52	117.75
4.75	12	SLE Q	1	50.00	25.13	15.46	-9018.22	1729.32	-877.45	101.94
5.25	10	SLE R	2	500.00	25.13	15.46	-14158.60	2715.03	-1377.60	160.05
5.25	12	SLE Q	2	500.00	25.13	15.46	-12106.80	2321.58	-1177.96	136.86
7.68	10	SLE R	2	256.53	12.57	22.87	7140.73	-736.62	1498.92	86.37
7.68	12	SLE Q	2	256.53	12.57	22.87	6091.54	-628.38	1278.68	73.68
10.25	10	SLE R	2	0.00	25.13	15.46	-13715.70	2630.10	-1334.51	155.04
10.25	12	SLE Q	2	0.00	25.13	15.46	-11749.90	2253.14	-1143.23	132.82
10.75	10	SLE R	3	475.00	25.13	15.46	-10576.90	2028.20	-1029.10	119.56
10.75	12	SLE Q	3	475.00	25.13	15.46	-9126.72	1750.13	-888.01	103.17
12.88	10	SLE R	3	262.50	12.57	11.44	6826.74	-685.96	2780.78	103.51
12.88	12	SLE Q	3	262.50	12.57	11.44	5841.90	-587.00	2379.62	88.58
15.00	10	SLE R	3	50.00	12.57	11.44	-6659.49	2476.57	-692.83	99.01
15.00	12	SLE Q	3	50.00	12.57	11.44	-5611.86	2086.97	-583.84	83.44

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
13	0.50	12	SLE Q	1	4	475.00	-5767.76	40.00	131.33	0.50	20.00	134.72	12.57	343.80	2144.94	0.85	0.19
14	0.50	11	SLE F	1	4	475.00	-5979.84	40.00	131.33	0.50	20.00	134.72	12.57	343.80	2223.81	0.79	0.18
25	2.32	12	SLE Q	1	4	292.86	5806.08	40.50	130.00	0.50	19.16	139.75	11.44	350.71	2365.03	0.94	0.22
26	2.32	11	SLE F	1	4	292.86	5987.45	40.50	130.00	0.50	19.16	139.75	11.44	350.71	2438.91	0.87	0.21
37	4.75	12	SLE Q	1	4	50.00	-9018.22	40.00	56.29	0.50	20.00	104.23	25.13	304.46	1729.32	0.73	0.13
38	4.75	11	SLE F	1	4	50.00	-9278.84	40.00	56.29	0.50	20.00	104.23	25.13	304.46	1779.30	0.71	0.13
49	5.25	12	SLE Q	2	4	500.00	-12106.80	40.00	56.29	0.50	20.00	104.23	25.13	304.46	2321.58	1.02	0.18
50	5.25	11	SLE F	2	4	500.00	-12488.50	40.00	56.29	0.50	20.00	104.23	25.13	304.46	2394.78	1.01	0.18
61	7.68	12	SLE Q	2	4	256.53	6091.54	40.50	55.71	0.50	19.16	106.70	22.87	306.83	1278.68	0.51	0.09
62	7.68	11	SLE F	2	4	256.53	6289.83	40.50	55.71	0.50	19.16	106.70	22.87	306.83	1320.30	0.47	0.09
73	10.25	12	SLE Q	2	4	0.00	-11749.90	40.00	56.29	0.50	20.00	104.23	25.13	304.46	2253.14	0.99	0.18
74	10.25	11	SLE F	2	4	0.00	-12118.60	40.00	56.29	0.50	20.00	104.23	25.13	304.46	2323.84	0.97	0.17
85	10.75	12	SLE Q	3	4	475.00	-9126.72	40.00	56.29	0.50	20.00	104.23	25.13	304.46	1750.13	0.74	0.13
86	10.75	11	SLE F	3	4	475.00	-9395.15	40.00	56.29	0.50	20.00	104.23	25.13	304.46	1801.60	0.72	0.13
97	12.88	12	SLE Q	3	4	262.50	5841.90	40.50	130.00	0.50	19.16	139.75	11.44	350.71	2379.62	0.94	0.22
98	12.88	11	SLE F	3	4	262.50	6023.90	40.50	130.00	0.50	19.16	139.75	11.44	350.71	2453.75	0.87	0.21
111	15.00	12	SLE Q	3	4	50.00	-5611.86	40.00	131.33	0.50	20.00	134.72	12.57	343.80	2086.97	0.82	0.19
112	15.00	11	SLE F	3	4	50.00	-5815.78	40.00	131.33	0.50	20.00	134.72	12.57	343.80	2162.80	0.76	0.17

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	18499.50	2.37	35020.20	35020.20	35020.20	1.893
9 SLU	0.80	4.29	3.49	ø10/20 2 br.	7.85	0.50	16599.80	2.50	17287.30	33754.50	17287.30	1.041
9 SLU	4.29	4.75	0.46	ø8/ 6 2 br.	16.76	0.50	20840.60	2.37	35020.20	35020.20	35020.20	1.680
9 SLU	5.25	5.97	0.72	ø8/ 6 2 br.	16.76	0.50	23274.80	2.37	35020.20	35020.20	35020.20	1.505
9 SLU	5.97	9.46	3.49	ø10/20 2 br.	7.85	0.50	16644.10	2.50	17287.30	33754.50	17287.30	1.039
9 SLU	9.46	10.25	0.79	ø8/ 6 2 br.	16.76	0.50	23007.70	2.37	35020.20	35020.20	35020.20	1.522
9 SLU	10.75	11.18	0.43	ø8/ 6 2 br.	16.76	0.50	20970.90	2.37	35020.20	35020.20	35020.20	1.670
9 SLU	11.18	14.70	3.52	ø10/20 2 br.	7.85	0.50	17014.70	2.50	17287.30	33754.50	17287.30	1.016
9 SLU	14.70	15.00	0.30	ø8/ 6 2 br.	16.76	0.50	18369.20	2.37	35020.20	35020.20	35020.20	1.906

Travata n. 303

Nodi: 309 310 311 312

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	9	SLU	1	475.00	12.57	11.44	12.57	11.44	-9367.63	-10888.10	1.162
2.24	9	SLU	1	300.55	12.57	11.44	12.57	11.44	9404.79	9995.59	1.063
4.75	9	SLU	1	50.00	25.13	14.58	25.13	14.58	-14667.70	-20590.20	1.404
5.25	9	SLU	2	500.00	25.13	14.58	25.13	14.58	-19718.50	-20590.20	1.044
7.71	9	SLU	2	253.88	12.57	22.87	12.57	22.87	9860.30	18846.30	1.911
10.25	9	SLU	2	0.00	25.13	14.58	25.13	14.58	-19052.50	-20590.20	1.081
10.75	9	SLU	3	475.00	25.13	14.58	25.13	14.58	-15012.20	-20590.20	1.372
12.88	9	SLU	3	262.50	12.57	11.44	12.57	11.44	9519.46	9995.59	1.050

15.00	9	SLU	3	50.00	12.57	11.44	12.57	11.44	-8873.19	-10888.10	1.227

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	475.00	12.57	11.44	-6599.54	2454.27	-686.60	98.12
0.50	12	SLE Q	1	475.00	12.57	11.44	-5518.21	2052.14	-574.10	82.04
2.24	10	SLE R	1	300.55	12.57	11.44	6641.99	-667.39	2705.52	100.71
2.24	12	SLE Q	1	300.55	12.57	11.44	5688.19	-571.55	2317.00	86.25
4.75	10	SLE R	1	50.00	25.13	14.58	-10379.20	1990.64	-1027.11	118.77
4.75	12	SLE Q	1	50.00	25.13	14.58	-9003.48	1726.79	-890.97	103.03
5.25	10	SLE R	2	500.00	25.13	14.58	-13913.70	2668.52	-1376.87	159.22
5.25	12	SLE Q	2	500.00	25.13	14.58	-11903.90	2283.07	-1177.99	136.22
7.71	10	SLE R	2	253.88	12.57	22.87	6962.28	-718.21	1461.46	84.21
7.71	12	SLE Q	2	253.88	12.57	22.87	5938.11	-612.56	1246.47	71.82
10.25	10	SLE R	2	0.00	25.13	14.58	-13472.60	2583.94	-1333.23	154.17
10.25	12	SLE Q	2	0.00	25.13	14.58	-11544.20	2214.09	-1142.40	132.10
10.75	10	SLE R	3	475.00	25.13	14.58	-10604.00	2033.75	-1049.35	121.34
10.75	12	SLE Q	3	475.00	25.13	14.58	-9164.01	1757.58	-906.86	104.86
12.88	10	SLE R	3	262.50	12.57	11.44	6722.50	-675.48	2738.32	101.93
12.88	12	SLE Q	3	262.50	12.57	11.44	5755.18	-578.29	2344.29	87.26
15.00	10	SLE R	3	50.00	12.57	11.44	-6267.43	2330.76	-652.04	93.18
15.00	12	SLE Q	3	50.00	12.57	11.44	-5266.62	1958.58	-547.92	78.30

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.50	12	SLE Q	1	4	475.00	-5518.21	40.00	131.33	0.50	20.00	134.72	12.57	343.80	2052.14	0.80	0.18
12	0.50	11	SLE F	1	4	475.00	-5721.38	40.00	131.33	0.50	20.00	134.72	12.57	343.80	2127.70	0.74	0.17
23	2.24	12	SLE Q	1	4	300.55	5688.19	40.50	130.00	0.50	19.16	139.75	11.44	350.71	2317.00	0.91	0.22
24	2.24	11	SLE F	1	4	300.55	5867.20	40.50	130.00	0.50	19.16	139.75	11.44	350.71	2389.92	0.84	0.20
35	4.75	12	SLE Q	1	4	50.00	-9003.48	40.00	56.29	0.50	20.00	104.13	25.13	303.21	1726.79	0.73	0.13
36	4.75	11	SLE F	1	4	50.00	-9260.48	40.00	56.29	0.50	20.00	104.13	25.13	303.21	1776.08	0.71	0.12
47	5.25	12	SLE Q	2	4	500.00	-11903.90	40.00	56.29	0.50	20.00	104.13	25.13	303.21	2283.07	1.00	0.18
48	5.25	11	SLE F	2	4	500.00	-12278.70	40.00	56.29	0.50	20.00	104.13	25.13	303.21	2354.95	0.99	0.17
59	7.71	12	SLE Q	2	4	253.88	5938.11	40.50	55.71	0.50	19.16	106.70	22.87	306.83	1246.47	0.49	0.09
60	7.71	11	SLE F	2	4	253.88	6131.60	40.50	55.71	0.50	19.16	106.70	22.87	306.83	1287.09	0.46	0.08
71	10.25	12	SLE Q	2	4	0.00	-11544.20	40.00	56.29	0.50	20.00	104.13	25.13	303.21	2214.09	0.97	0.17
72	10.25	11	SLE F	2	4	0.00	-11905.20	40.00	56.29	0.50	20.00	104.13	25.13	303.21	2283.32	0.95	0.17
83	10.75	12	SLE Q	3	4	475.00	-9164.01	40.00	56.29	0.50	20.00	104.13	25.13	303.21	1757.58	0.75	0.13
84	10.75	11	SLE F	3	4	475.00	-9432.66	40.00	56.29	0.50	20.00	104.13	25.13	303.21	1809.11	0.72	0.13
95	12.88	12	SLE Q	3	4	262.50	5755.18	40.50	130.00	0.50	19.16	139.75	11.44	350.71	2344.29	0.93	0.22
96	12.88	11	SLE F	3	4	262.50	5933.98	40.50	130.00	0.50	19.16	139.75	11.44	350.71	2417.13	0.86	0.20
108	15.00	12	SLE Q	3	4	50.00	-5266.62	40.00	131.33	0.50	20.00	134.72	12.57	343.80	1958.58	0.76	0.17
109	15.00	11	SLE F	3	4	50.00	-5459.69	40.00	131.33	0.50	20.00	134.72	12.57	343.80	2030.38	0.70	0.16

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	18029.90	2.37	35020.20	35020.20	35020.20	1.942
9 SLU	0.80	4.35	3.55	ø10/20 2 br.	7.85	0.50	16895.10	2.50	17287.30	33754.50	17287.30	1.023
9 SLU	4.35	4.75	0.40	ø8/ 6 2 br.	16.76	0.50	20524.00	2.37	35020.20	35020.20	35020.20	1.706
9 SLU	5.25	5.94	0.69	ø8/ 6 2 br.	16.76	0.50	22812.00	2.37	35020.20	35020.20	35020.20	1.535
9 SLU	5.94	9.61	3.67	ø10/20 2 br.	7.85	0.50	16745.20	2.50	17287.30	33754.50	17287.30	1.032
9 SLU	9.61	10.25	0.64	ø8/ 6 2 br.	16.76	0.50	22545.50	2.37	35020.20	35020.20	35020.20	1.553
9 SLU	10.75	11.20	0.45	ø8/ 6 2 br.	16.76	0.50	20721.40	2.37	35020.20	35020.20	35020.20	1.690
9 SLU	11.20	14.70	3.50	ø10/20 2 br.	7.85	0.50	16633.10	2.50	17287.30	33754.50	17287.30	1.039
9 SLU	14.70	15.00	0.30	ø8/ 6 2 br.	16.76	0.50	17832.50	2.37	35020.20	35020.20	35020.20	1.964

Travata n. 304

Nodi: 313 314 315 316

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	9	SLU	1	485.00	10.30	11.44	10.30	11.44	-8584.04	-9104.03	1.061
2.19	9	SLU	1	305.52	10.30	11.44	10.30	11.44	9653.11	9997.59	1.036
4.85	9	SLU	1	40.00	22.87	11.44	22.87	11.44	-14877.60	-18820.50	1.265
5.25	9	SLU	2	500.00	22.87	11.44	22.87	11.44	-18157.10	-18820.50	1.037
7.53	9	SLU	2	271.54	12.57	22.87	12.57	22.87	8554.37	18846.30	2.203
10.25	9	SLU	2	0.00	21.74	11.44	21.74	11.44	-17760.90	-17973.40	1.012
10.65	9	SLU	3	485.00	21.74	11.44	21.74	11.44	-15482.40	-17973.40	1.161
12.88	9	SLU	3	262.50	9.17	11.44	9.17	11.44	9959.47	9998.76	1.004
15.10	9	SLU	3	40.00	9.17	11.44	9.17	11.44	-7563.87	-8208.32	1.085

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ_f sup	σ_f inf	σ_c

<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.40	10	SLE R	1	485.00	10.30	11.44	-6049.23	2720.96	-615.63	96.65
0.40	12	SLE Q	1	485.00	10.30	11.44	-5060.10	2276.04	-514.96	80.85
2.19	10	SLE R	1	305.52	10.30	11.44	6820.02	-721.93	2774.21	106.40
2.19	12	SLE Q	1	305.52	10.30	11.44	5848.40	-619.08	2378.98	91.24
4.85	10	SLE R	1	40.00	22.87	11.44	-10535.00	2211.87	-1112.26	129.55
4.85	12	SLE Q	1	40.00	22.87	11.44	-9138.05	1918.57	-964.77	112.37
5.25	10	SLE R	2	500.00	22.87	11.44	-12818.50	2691.31	-1353.34	157.63
5.25	12	SLE Q	2	500.00	22.87	11.44	-10985.10	2306.37	-1159.77	135.09
7.53	10	SLE R	2	271.54	12.57	22.87	6042.26	-623.30	1268.34	73.08
7.53	12	SLE Q	2	271.54	12.57	22.87	5150.04	-531.26	1081.05	62.29
10.25	10	SLE R	2	0.00	21.74	11.44	-12567.20	2768.98	-1327.87	156.81
10.25	12	SLE Q	2	0.00	21.74	11.44	-10787.70	2376.90	-1139.85	134.60
10.65	10	SLE R	3	485.00	21.74	11.44	-10941.10	2410.69	-1156.05	136.52
10.65	12	SLE Q	3	485.00	21.74	11.44	-9462.53	2084.91	-999.82	118.07
12.88	10	SLE R	3	262.50	9.17	11.44	7036.84	-765.21	2860.40	111.44
12.88	12	SLE Q	3	262.50	9.17	11.44	6032.25	-655.97	2452.05	95.53
15.10	10	SLE R	3	40.00	9.17	11.44	-5345.98	2688.39	-533.81	89.29
15.10	12	SLE Q	3	40.00	9.17	11.44	-4484.02	2254.92	-447.74	74.89

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.40	12	SLE Q	1	4	485.00	-5060.10	41.00	131.33	0.50	18.22	144.81	10.30	355.16	2276.04	0.87	0.21
12	0.40	11	SLE F	1	4	485.00	-5243.88	41.00	131.33	0.50	18.22	144.81	10.30	355.16	2358.71	0.80	0.20
23	2.19	12	SLE Q	1	4	305.52	5848.40	40.50	130.00	0.50	19.16	139.27	11.44	347.83	2378.98	0.95	0.22
24	2.19	11	SLE F	1	4	305.52	6031.75	40.50	130.00	0.50	19.16	139.27	11.44	347.83	2453.56	0.88	0.21
35	4.85	12	SLE Q	1	4	40.00	-9138.05	40.50	56.29	0.50	19.16	106.56	22.87	305.13	1918.57	0.82	0.15
36	4.85	11	SLE F	1	4	40.00	-9399.52	40.50	56.29	0.50	19.16	106.56	22.87	305.13	1973.47	0.79	0.14
47	5.25	12	SLE Q	2	4	500.00	-10985.10	40.50	56.29	0.50	19.16	106.56	22.87	305.13	2306.37	1.01	0.18
48	5.25	11	SLE F	2	4	500.00	-11327.70	40.50	56.29	0.50	19.16	106.56	22.87	305.13	2378.29	0.99	0.18
59	7.53	12	SLE Q	2	4	271.54	5150.04	40.50	55.71	0.50	19.16	106.70	22.87	306.83	1081.05	0.41	0.07
60	7.53	11	SLE F	2	4	271.54	5318.97	40.50	55.71	0.50	19.16	106.70	22.87	306.83	1116.51	0.37	0.07
71	10.25	12	SLE Q	2	4	0.00	-10787.70	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2376.90	1.04	0.19
72	10.25	11	SLE F	2	4	0.00	-11119.70	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2450.03	1.01	0.19
83	10.65	12	SLE Q	3	4	485.00	-9462.53	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2084.91	0.90	0.16
84	10.65	11	SLE F	3	4	485.00	-9740.07	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2146.06	0.87	0.16
95	12.88	12	SLE Q	3	4	262.50	6032.25	40.50	130.00	0.50	19.16	139.02	11.44	346.31	2452.05	0.98	0.23
96	12.88	11	SLE F	3	4	262.50	6217.34	40.50	130.00	0.50	19.16	139.02	11.44	346.31	2527.28	0.91	0.22
107	15.10	12	SLE Q	3	4	40.00	-4484.02	41.50	132.00	0.50	17.18	150.68	9.17	361.44	2254.92	0.83	0.21
108	15.10	11	SLE F	3	4	40.00	-4650.73	41.50	132.00	0.50	17.18	150.68	9.17	361.44	2338.76	0.74	0.19

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	16909.30	2.37	35020.20	35020.20	35020.20	2.071
9 SLU	0.70	4.55	3.85	ø10/20 2 br.	7.85	0.50	17267.20	2.50	17287.30	33754.50	17287.30	1.001
9 SLU	4.55	4.85	0.30	ø8/ 6 2 br.	16.76	0.50	19737.80	2.37	35020.20	35020.20	35020.20	1.774
9 SLU	5.25	5.69	0.44	ø8/ 6 2 br.	16.76	0.50	20667.50	2.37	35020.20	35020.20	35020.20	1.694
9 SLU	5.69	9.80	4.12	ø10/20 2 br.	7.85	0.50	17068.30	2.50	17287.30	33754.50	17287.30	1.013
9 SLU	9.80	10.25	0.45	ø8/ 6 2 br.	16.76	0.50	20509.00	2.37	35020.20	35020.20	35020.20	1.708
9 SLU	10.65	11.09	0.44	ø8/ 6 2 br.	16.76	0.50	20103.00	2.37	35020.20	35020.20	35020.20	1.742
9 SLU	11.09	14.80	3.71	ø10/20 2 br.	7.85	0.50	16509.60	2.50	17287.30	33754.50	17287.30	1.047
9 SLU	14.80	15.10	0.30	ø8/ 6 2 br.	16.76	0.50	16544.10	2.37	35020.20	35020.20	35020.20	2.117

Travata n. 305

Nodi: 317 318 319 320

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	9	SLU	1	485.00	10.30	11.44	10.30	11.44	-7498.70	-9104.03	1.214
2.27	9	SLU	1	298.13	10.30	11.44	10.30	11.44	9316.05	9997.59	1.073
4.85	9	SLU	1	40.00	21.74	11.44	21.74	11.44	-14447.80	-17973.40	1.244
5.25	9	SLU	2	500.00	21.74	11.44	21.74	11.44	-17381.70	-17973.40	1.034
7.59	9	SLU	2	265.90	11.44	22.87	11.44	22.87	8060.67	18820.50	2.335
10.25	9	SLU	2	0.00	20.61	11.44	20.61	11.44	-16660.80	-17118.30	1.027
10.65	9	SLU	3	485.00	20.61	11.44	20.61	11.44	-14177.10	-17118.30	1.207
12.88	9	SLU	3	262.50	9.17	11.44	9.17	11.44	9343.34	9998.76	1.070
15.10	9	SLU	3	40.00	9.17	11.44	9.17	11.44	-7680.39	-8208.32	1.069

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	485.00	10.30	11.44	-5278.06	2374.08	-537.15	84.33
0.40	12	SLE Q	1	485.00	10.30	11.44	-4391.80	1975.44	-446.95	70.17
2.27	10	SLE R	1	298.13	10.30	11.44	6584.15	-696.97	2678.26	102.72
2.27	12	SLE Q	1	298.13	10.30	11.44	5651.17	-598.21	2298.75	88.16

4.85	10	SLE R	1	40.00	21.74	11.44	-10241.70	2256.60	-1082.16	127.79
4.85	12	SLE Q	1	40.00	21.74	11.44	-8907.69	1962.66	-941.20	111.14
5.25	10	SLE R	2	500.00	21.74	11.44	-12280.60	2705.83	-1297.58	153.23
5.25	12	SLE Q	2	500.00	21.74	11.44	-10548.30	2324.14	-1114.55	131.62
7.59	10	SLE R	2	265.90	11.44	22.87	5695.40	-601.30	1195.77	70.04
7.59	12	SLE Q	2	265.90	11.44	22.87	4858.73	-512.97	1020.11	59.75
10.25	10	SLE R	2	0.00	20.61	11.44	-11787.10	2732.62	-1246.10	149.39
10.25	12	SLE Q	2	0.00	20.61	11.44	-10105.60	2342.78	-1068.33	128.07
10.65	10	SLE R	3	485.00	20.61	11.44	-10013.00	2321.32	-1058.55	126.90
10.65	12	SLE Q	3	485.00	20.61	11.44	-8639.08	2002.81	-913.30	109.49
12.88	10	SLE R	3	262.50	9.17	11.44	6604.00	-718.14	2684.46	104.59
12.88	12	SLE Q	3	262.50	9.17	11.44	5665.87	-616.12	2303.12	89.73
15.10	10	SLE R	3	40.00	9.17	11.44	-5436.83	2734.07	-542.88	90.81
15.10	12	SLE Q	3	40.00	9.17	11.44	-4590.82	2308.63	-458.40	76.68

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.40	12	SLE Q	1	4	485.00	-4391.80	41.00	131.33	0.50	18.22	144.81	10.30	355.16	1975.44	0.73	0.18
12	0.40	11	SLE F	1	4	485.00	-4557.64	41.00	131.33	0.50	18.22	144.81	10.30	355.16	2050.04	0.65	0.16
23	2.27	12	SLE Q	1	4	298.13	5651.17	40.50	130.00	0.50	19.16	139.27	11.44	347.83	2298.75	0.91	0.21
24	2.27	11	SLE F	1	4	298.13	5826.97	40.50	130.00	0.50	19.16	139.27	11.44	347.83	2370.26	0.84	0.20
35	4.85	12	SLE Q	1	4	40.00	-8907.69	40.75	56.29	0.50	18.70	108.05	21.74	308.63	1962.66	0.84	0.15
36	4.85	11	SLE F	1	4	40.00	-9156.35	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2017.45	0.80	0.15
47	5.25	12	SLE Q	2	4	500.00	-10548.30	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2324.14	1.01	0.19
48	5.25	11	SLE F	2	4	500.00	-10871.60	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2395.37	0.99	0.18
59	7.59	12	SLE Q	2	4	265.90	4858.73	40.50	55.71	0.50	19.16	106.56	22.87	305.13	1020.11	0.38	0.07
60	7.59	11	SLE F	2	4	265.90	5017.18	40.50	55.71	0.50	19.16	106.56	22.87	305.13	1053.38	0.34	0.06
71	10.25	12	SLE Q	2	4	0.00	-10105.60	41.00	56.29	0.50	18.22	109.61	20.61	312.27	2342.78	1.02	0.19
72	10.25	11	SLE F	2	4	0.00	-10419.50	41.00	56.29	0.50	18.22	109.61	20.61	312.27	2415.57	0.99	0.18
83	10.65	12	SLE Q	3	4	485.00	-8639.08	41.00	56.29	0.50	18.22	109.61	20.61	312.27	2002.81	0.85	0.16
84	10.65	11	SLE F	3	4	485.00	-8896.24	41.00	56.29	0.50	18.22	109.61	20.61	312.27	2062.42	0.82	0.15
95	12.88	12	SLE Q	3	4	262.50	5665.87	40.50	130.00	0.50	19.16	139.02	11.44	346.31	2303.12	0.91	0.21
96	12.88	11	SLE F	3	4	262.50	5838.26	40.50	130.00	0.50	19.16	139.02	11.44	346.31	2373.19	0.84	0.20
107	15.10	12	SLE Q	3	4	40.00	-4590.82	41.50	132.00	0.50	17.18	150.68	9.17	361.44	2308.63	0.86	0.22
108	15.10	11	SLE F	3	4	40.00	-4755.67	41.50	132.00	0.50	17.18	150.68	9.17	361.44	2391.53	0.77	0.20

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	15774.00	2.37	35020.20	35020.20	35020.20	2.220
9 SLU	0.70	4.55	3.85	ø10/20 2 br.	7.85	0.50	16559.80	2.50	17287.30	33754.50	17287.30	1.044
9 SLU	4.55	4.85	0.30	ø8/ 6 2 br.	16.76	0.50	18897.20	2.37	35020.20	35020.20	35020.20	1.853
9 SLU	5.25	5.55	0.30	ø8/ 6 2 br.	16.76	0.50	19622.40	2.37	35020.20	35020.20	35020.20	1.785
9 SLU	5.55	9.95	4.40	ø10/20 2 br.	7.85	0.50	17285.00	2.50	17287.30	33754.50	17287.30	1.000
9 SLU	9.95	10.25	0.30	ø8/ 6 2 br.	16.76	0.50	19334.10	2.37	35020.20	35020.20	35020.20	1.811
9 SLU	10.65	10.95	0.30	ø8/ 6 2 br.	16.76	0.50	18795.60	2.37	35020.20	35020.20	35020.20	1.863
9 SLU	10.95	14.80	3.85	ø10/20 2 br.	7.85	0.50	16458.20	2.50	17287.30	33754.50	17287.30	1.050
9 SLU	14.80	15.10	0.30	ø8/ 6 2 br.	16.76	0.50	15875.70	2.37	35020.20	35020.20	35020.20	2.206

Travata n. 306

Nodi: 321 322 325

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	9	SLU	1	485.00	11.44	11.44	11.44	11.44	-7940.93	-9996.54	1.259
2.31	9	SLU	1	294.29	11.44	11.44	11.44	11.44	9850.90	9996.54	1.015
4.85	9	SLU	1	40.00	21.74	11.44	21.74	11.44	-14966.30	-17973.40	1.201
5.25	9	SLU	2	447.00	21.74	11.44	21.74	11.44	-17366.40	-17973.40	1.035
7.49	9	SLU	2	223.50	11.44	11.44	11.44	11.44	7694.90	9996.54	1.299
9.72	9	SLU	2	0.00	11.44	11.44	11.44	11.44	-9865.41	-9996.54	1.013

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	485.00	11.44	11.44	-5586.11	2273.86	-575.95	85.89
0.40	12	SLE Q	1	485.00	11.44	11.44	-4659.37	1896.63	-480.40	71.64
2.31	10	SLE R	1	294.29	11.44	11.44	6957.03	-717.30	2831.90	106.97
2.31	12	SLE Q	1	294.29	11.44	11.44	5953.99	-613.88	2423.61	91.55
4.85	10	SLE R	1	40.00	21.74	11.44	-10615.10	2338.85	-1121.60	132.45
4.85	12	SLE Q	1	40.00	21.74	11.44	-9239.72	2035.82	-976.28	115.29
5.25	10	SLE R	2	447.00	21.74	11.44	-12326.40	2715.91	-1302.42	153.80
5.25	12	SLE Q	2	447.00	21.74	11.44	-10725.50	2363.19	-1133.27	133.83
7.49	10	SLE R	2	223.50	11.44	11.44	5440.78	-560.97	2214.70	83.66
7.49	12	SLE Q	2	223.50	11.44	11.44	4665.13	-480.99	1898.97	71.73
9.72	10	SLE R	2	0.00	11.44	11.44	-6921.52	2817.45	-713.64	106.43
9.72	12	SLE Q	2	0.00	11.44	11.44	-5771.85	2349.47	-595.10	88.75

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>
11	0.40	12	SLE Q	1	4	485.00	-4659.37	40.50	131.33	0.50	19.16	139.52	11.44	349.30	1896.63	0.71	0.17
12	0.40	11	SLE F	1	4	485.00	-4835.81	40.50	131.33	0.50	19.16	139.52	11.44	349.30	1968.45	0.64	0.15
23	2.31	12	SLE Q	1	4	294.29	5953.99	40.50	130.00	0.50	19.16	139.52	11.44	349.30	2423.61	0.97	0.23
24	2.31	11	SLE F	1	4	294.29	6141.85	40.50	130.00	0.50	19.16	139.52	11.44	349.30	2500.08	0.90	0.21
35	4.85	12	SLE Q	1	4	40.00	-9239.72	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2035.82	0.87	0.16
36	4.85	11	SLE F	1	4	40.00	-9494.64	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2091.99	0.84	0.15
47	5.25	12	SLE Q	2	4	447.00	-10725.50	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2363.19	1.03	0.19
48	5.25	11	SLE F	2	4	447.00	-11016.20	40.75	56.29	0.50	18.70	108.05	21.74	308.63	2427.24	1.00	0.18
59	7.49	12	SLE Q	2	4	223.50	4665.13	40.50	130.00	0.50	19.16	139.52	11.44	349.30	1898.97	0.71	0.17
60	7.49	11	SLE F	2	4	223.50	4810.65	40.50	130.00	0.50	19.16	139.52	11.44	349.30	1958.21	0.64	0.15
71	9.72	12	SLE Q	2	4	0.00	-5771.85	40.50	131.33	0.50	19.16	139.52	11.44	349.30	2349.47	0.93	0.22
72	9.72	11	SLE F	2	4	0.00	-5994.87	40.50	131.33	0.50	19.16	139.52	11.44	349.30	2440.25	0.87	0.21

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	16629.50	2.37	35020.20	35020.20	35020.20	2.106
9 SLU	0.70	4.47	3.77	ø10/20 2 br.	7.85	0.50	16646.10	2.50	17287.30	33754.50	17287.30	1.039
9 SLU	4.47	4.85	0.38	ø8/ 6 2 br.	16.76	0.50	19787.00	2.37	35020.20	35020.20	35020.20	1.770
9 SLU	5.25	5.64	0.39	ø8/ 6 2 br.	16.76	0.50	19968.20	2.37	35020.20	35020.20	35020.20	1.754
9 SLU	5.64	9.42	3.78	ø10/20 2 br.	7.85	0.50	16774.70	2.50	17287.30	33754.50	17287.30	1.031
9 SLU	9.42	9.72	0.30	ø8/ 6 2 br.	16.76	0.50	16612.10	2.37	35020.20	35020.20	35020.20	2.108

Travata n. 307

Nodi: 323 324 328

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	9	SLU	1	40.00	8.29	8.04	8.29	8.04	-4735.87	-7508.96	1.586
2.31	9	SLU	1	230.71	8.29	8.04	8.29	8.04	6657.30	7309.11	1.098
4.85	9	SLU	1	485.00	12.31	6.03	12.31	6.03	-8875.32	-10694.50	1.205
5.25	9	SLU	2	0.00	12.31	6.03	12.31	6.03	-10427.40	-10694.50	1.026
7.49	9	SLU	2	223.50	8.29	6.03	8.29	6.03	4680.14	5705.13	1.219
9.72	9	SLU	2	447.00	8.29	6.03	8.29	6.03	-6957.84	-7507.17	1.079

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	40.00	8.29	8.04	-3328.20	1837.98	-354.67	60.19
0.40	12	SLE Q	1	40.00	8.29	8.04	-2943.59	1625.58	-313.68	53.23
2.31	10	SLE R	1	230.71	8.29	8.04	4681.37	-492.21	2663.22	85.40
2.31	12	SLE Q	1	230.71	8.29	8.04	4143.42	-435.65	2357.18	75.59
4.85	10	SLE R	1	485.00	12.31	6.03	-6244.37	2360.80	-738.19	100.86
4.85	12	SLE Q	1	485.00	12.31	6.03	-5534.81	2092.53	-654.31	89.40
5.25	10	SLE R	2	0.00	12.31	6.03	-7336.69	2773.77	-867.32	118.51
5.25	12	SLE Q	2	0.00	12.31	6.03	-6493.89	2455.13	-767.69	104.89
7.49	10	SLE R	2	223.50	8.29	6.03	3291.69	-315.95	2466.78	67.44
7.49	12	SLE Q	2	223.50	8.29	6.03	2914.46	-279.74	2184.09	59.71
9.72	10	SLE R	2	447.00	8.29	6.03	-4888.74	2694.44	-549.88	90.73
9.72	12	SLE Q	2	447.00	8.29	6.03	-4329.71	2386.33	-487.00	80.36

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>
11	0.40	12	SLE Q	1	4	40.00	-2943.59	40.67	197.00	0.50	18.86	163.81	8.29	362.75	1625.58	0.50	0.14
12	0.40	11	SLE F	1	4	40.00	-3016.25	40.67	197.00	0.50	18.86	163.81	8.29	362.75	1665.71	0.49	0.14
23	2.31	12	SLE Q	1	4	230.71	4143.42	42.00	131.33	0.50	16.00	156.55	8.04	364.67	2357.18	0.85	0.23
24	2.31	11	SLE F	1	4	230.71	4244.27	42.00	131.33	0.50	16.00	156.55	8.04	364.67	2414.55	0.73	0.19
35	4.85	12	SLE Q	1	4	485.00	-5534.81	41.20	98.50	0.50	17.82	131.20	12.31	337.27	2092.53	0.82	0.18
36	4.85	11	SLE F	1	4	485.00	-5667.23	41.20	98.50	0.50	17.82	131.20	12.31	337.27	2142.60	0.75	0.17
47	5.25	12	SLE Q	2	4	0.00	-6493.89	41.20	98.50	0.50	17.82	131.20	12.31	337.27	2455.13	1.00	0.22
48	5.25	11	SLE F	2	4	0.00	-6651.48	41.20	98.50	0.50	17.82	131.20	12.31	337.27	2514.71	0.93	0.21
59	7.49	12	SLE Q	2	4	223.50	2914.46	42.00	197.00	0.50	16.00	184.49	6.03	378.82	2184.09	0.67	0.21
60	7.49	11	SLE F	2	4	223.50	2985.16	42.00	197.00	0.50	16.00	184.49	6.03	378.82	2237.06	0.65	0.20
71	9.72	12	SLE Q	2	4	447.00	-4329.71	40.67	197.00	0.50	18.86	163.22	8.29	360.17	2386.33	0.87	0.24
72	9.72	11	SLE F	2	4	447.00	-4434.97	40.67	197.00	0.50	18.86	163.22	8.29	360.17	2444.34	0.76	0.21

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	10551.90	2.37	35020.20	35020.20	35020.20	3.319

9	SLU	0.70	4.55	3.85	ø10/20 2 br.	7.85	0.50	10864.20	2.50	17287.30	33754.50	17287.30	1.591
9	SLU	4.55	4.85	0.30	ø8/ 6 2 br.	16.76	0.50	12412.30	2.37	35020.20	35020.20	35020.20	2.821
9	SLU	5.25	5.55	0.30	ø8/ 6 2 br.	16.76	0.50	12309.90	2.37	35020.20	35020.20	35020.20	2.845
9	SLU	5.55	9.42	3.87	ø10/20 2 br.	7.85	0.50	10761.80	2.50	17287.30	33754.50	17287.30	1.606
9	SLU	9.42	9.72	0.30	ø8/ 6 2 br.	16.76	0.50	10757.50	2.37	35020.20	35020.20	35020.20	3.255

Travata n. 308

Nodi: 301 305 309 313 317 321 323

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>
3	R	30.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	40.00	4.02	4.02	4.02	4.02	-2306.90	-3741.10	1.622
2.68	9	SLU	1	267.71	4.02	4.02	4.02	4.02	1763.46	3741.10	2.121
5.85	9	SLU	1	585.00	4.02	4.02	4.02	4.02	-3067.38	-3741.10	1.220
6.25	9	SLU	2	20.00	4.02	4.02	4.02	4.02	-2648.33	-3741.10	1.413
8.70	9	SLU	2	265.27	4.02	4.02	4.02	4.02	1527.71	3741.10	2.449
11.65	9	SLU	2	560.00	4.02	4.02	4.02	4.02	-2720.74	-3741.10	1.375
12.05	9	SLU	3	20.00	4.02	4.02	4.02	4.02	-2627.99	-3741.10	1.424
14.50	9	SLU	3	265.26	4.02	4.02	4.02	4.02	1545.84	3741.10	2.420
17.45	9	SLU	3	560.00	4.02	4.02	4.02	4.02	-2708.15	-3741.10	1.381
17.85	1	SLV	4	20.00	4.02	4.02	4.02	4.02	-1882.21	-3741.10	1.988
19.68	9	SLU	4	203.00	4.02	4.02	4.02	4.02	965.70	3741.10	3.874
22.12	1	SLV	4	447.00	4.02	4.02	4.02	4.02	-1994.99	-3741.10	1.875
22.52	9	SLU	5	20.00	4.02	4.02	4.02	4.02	-2145.79	-3741.10	1.743
24.71	9	SLU	5	238.75	4.02	4.02	4.02	4.02	1283.26	3741.10	2.915
27.52	9	SLU	5	520.00	4.02	4.02	4.02	4.02	-2510.14	-3741.10	1.490
27.92	1	SLV	6	40.00	4.02	4.02	4.02	4.02	-2070.93	-3741.10	1.806
30.12	9	SLU	6	260.00	4.02	4.02	4.02	4.02	1224.58	3741.10	3.055
32.32	1	SLV	6	480.00	4.02	4.02	4.02	4.02	-1886.52	-3741.10	1.983

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	40.00	4.02	4.02	-1421.64	1602.26	-247.42	47.32
0.40	12	SLE Q	1	40.00	4.02	4.02	-1415.75	1595.62	-246.39	47.13
2.68	10	SLE R	1	267.71	4.02	4.02	1223.87	-213.00	1379.36	40.74
2.68	12	SLE Q	1	267.71	4.02	4.02	1224.34	-213.08	1379.89	40.75
5.85	10	SLE R	1	585.00	4.02	4.02	-2129.80	2400.40	-370.66	70.90
5.85	12	SLE Q	1	585.00	4.02	4.02	-2135.56	2406.89	-371.66	71.09
6.25	10	SLE R	2	20.00	4.02	4.02	-1834.16	2067.19	-319.21	61.05
6.25	12	SLE Q	2	20.00	4.02	4.02	-1831.63	2064.35	-318.77	60.97
8.70	10	SLE R	2	265.27	4.02	4.02	1059.26	-184.35	1193.84	35.26
8.70	12	SLE Q	2	265.27	4.02	4.02	1059.22	-184.34	1193.80	35.26
11.65	10	SLE R	2	560.00	4.02	4.02	-1889.81	2129.92	-328.89	62.91
11.65	12	SLE Q	2	560.00	4.02	4.02	-1892.42	2132.86	-329.35	62.99
12.05	10	SLE R	3	20.00	4.02	4.02	-1817.86	2048.83	-316.37	60.51
12.05	12	SLE Q	3	20.00	4.02	4.02	-1815.89	2046.60	-316.03	60.45
14.50	10	SLE R	3	265.26	4.02	4.02	1072.13	-186.59	1208.35	35.69
14.50	12	SLE Q	3	265.26	4.02	4.02	1072.37	-186.63	1208.62	35.70
17.45	10	SLE R	3	560.00	4.02	4.02	-1882.74	2121.95	-327.67	62.67
17.45	12	SLE Q	3	560.00	4.02	4.02	-1884.30	2123.71	-327.94	62.72
17.85	10	SLE R	4	20.00	4.02	4.02	-1103.33	1243.51	-192.02	36.73
17.85	12	SLE Q	4	20.00	4.02	4.02	-1103.76	1244.00	-192.09	36.74
19.68	10	SLE R	4	203.00	4.02	4.02	670.46	-116.69	755.65	22.32
19.68	12	SLE Q	4	203.00	4.02	4.02	669.07	-116.44	754.07	22.27
22.12	10	SLE R	4	447.00	4.02	4.02	-1211.09	1364.97	-210.77	40.31
22.12	12	SLE Q	4	447.00	4.02	4.02	-1213.23	1367.37	-211.15	40.38
22.52	10	SLE R	5	20.00	4.02	4.02	-1483.00	1671.42	-258.10	49.37
22.52	12	SLE Q	5	20.00	4.02	4.02	-1483.08	1671.51	-258.11	49.37
24.71	10	SLE R	5	238.75	4.02	4.02	889.74	-154.85	1002.78	29.62
24.71	12	SLE Q	5	238.75	4.02	4.02	890.59	-154.99	1003.74	29.65
27.52	10	SLE R	5	520.00	4.02	4.02	-1746.63	1968.54	-303.98	58.14
27.52	12	SLE Q	5	520.00	4.02	4.02	-1744.96	1966.66	-303.69	58.08
27.92	10	SLE R	6	40.00	4.02	4.02	-1251.82	1410.86	-217.86	41.67
27.92	12	SLE Q	6	40.00	4.02	4.02	-1259.47	1419.50	-219.19	41.92
30.12	10	SLE R	6	260.00	4.02	4.02	848.65	-147.70	956.48	28.25
30.12	12	SLE Q	6	260.00	4.02	4.02	848.37	-147.65	956.16	28.24
32.32	10	SLE R	6	480.00	4.02	4.02	-961.78	1083.98	-167.38	32.02
32.32	12	SLE Q	6	480.00	4.02	4.02	-955.20	1076.57	-166.24	31.80

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>
11	0.40	12	SLE Q	1	3	40.00	-1415.75	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1595.62	0.46	0.14
12	0.40	11	SLE F	1	3	40.00	-1417.47	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1597.56	0.47	0.14
23	2.68	12	SLE Q	1	3	267.71	1224.34	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1379.89	0.40	0.12
24	2.68	11	SLE F	1	3	267.71	1224.14	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1379.67	0.40	0.12

35	5.85	12	SLE Q	1	3	585.00	-2135.56	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2406.89	0.82	0.24
36	5.85	11	SLE F	1	3	585.00	-2133.99	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2405.12	0.70	0.21
47	6.25	12	SLE Q	2	3	20.00	-1831.63	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2064.35	0.65	0.19
48	6.25	11	SLE F	2	3	20.00	-1832.50	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2065.33	0.60	0.18
59	8.70	12	SLE Q	2	3	265.27	1059.22	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1193.80	0.35	0.10
60	8.70	11	SLE F	2	3	265.27	1059.38	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1193.98	0.35	0.10
71	11.65	12	SLE Q	2	3	560.00	-1892.42	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2132.86	0.68	0.20
72	11.65	11	SLE F	2	3	560.00	-1891.26	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2131.55	0.62	0.18
83	12.05	12	SLE Q	3	3	20.00	-1815.89	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2046.60	0.64	0.19
84	12.05	11	SLE F	3	3	20.00	-1817.49	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2048.40	0.60	0.18
95	14.50	12	SLE Q	3	3	265.26	1072.37	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1208.62	0.35	0.10
96	14.50	11	SLE F	3	3	265.26	1072.32	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1208.56	0.35	0.10
107	17.45	12	SLE Q	3	3	560.00	-1884.30	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2123.71	0.68	0.20
108	17.45	11	SLE F	3	3	560.00	-1882.77	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2121.99	0.62	0.18
119	17.85	12	SLE Q	4	3	20.00	-1103.76	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1244.00	0.36	0.11
120	17.85	11	SLE F	4	3	20.00	-1104.89	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1245.27	0.36	0.11
131	19.68	12	SLE Q	4	3	203.00	669.07	42.00	198.00	0.50	16.00	172.83	4.02	223.25	754.07	0.22	0.06
132	19.68	11	SLE F	4	3	203.00	668.91	42.00	198.00	0.50	16.00	172.83	4.02	223.25	753.90	0.22	0.06
143	22.12	12	SLE Q	4	3	447.00	-1213.23	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1367.37	0.40	0.12
144	22.12	11	SLE F	4	3	447.00	-1212.35	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1366.38	0.40	0.12
155	22.52	12	SLE Q	5	3	20.00	-1483.08	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1671.51	0.49	0.14
156	22.52	11	SLE F	5	3	20.00	-1483.72	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1672.24	0.49	0.14
167	24.71	12	SLE Q	5	3	238.75	890.59	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1003.74	0.29	0.09
168	24.71	11	SLE F	5	3	238.75	890.57	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1003.72	0.29	0.09
179	27.52	12	SLE Q	5	3	520.00	-1744.96	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1966.66	0.60	0.18
180	27.52	11	SLE F	5	3	520.00	-1744.31	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1965.93	0.57	0.17
191	27.92	12	SLE Q	6	3	40.00	-1259.47	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1419.50	0.41	0.12
192	27.92	11	SLE F	6	3	40.00	-1259.22	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1419.21	0.41	0.12
203	30.12	12	SLE Q	6	3	260.00	848.37	42.00	198.00	0.50	16.00	172.83	4.02	223.25	956.16	0.28	0.08
204	30.12	11	SLE F	6	3	260.00	848.54	42.00	198.00	0.50	16.00	172.83	4.02	223.25	956.35	0.28	0.08
218	32.32	12	SLE Q	6	3	480.00	-955.20	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1076.57	0.31	0.09
219	32.32	11	SLE F	6	3	480.00	-955.13	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1076.49	0.31	0.09

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.30	2859.49	1.73	25471.60	25471.60	25471.60	8.908
9 SLU	0.70	5.55	4.85	ø8/20 2 br.	5.03	0.30	2895.63	2.50	11063.90	20252.70	11063.90	3.821
9 SLU	5.55	5.85	0.30	ø8/ 6 2 br.	16.76	0.30	3230.89	1.73	25471.60	25471.60	25471.60	7.884
9 SLU	6.25	6.55	0.30	ø8/ 6 2 br.	16.76	0.30	3003.84	1.73	25471.60	25471.60	25471.60	8.480
9 SLU	6.55	11.35	4.80	ø8/20 2 br.	5.03	0.30	2695.41	2.50	11063.90	20252.70	11063.90	4.105
9 SLU	11.35	11.65	0.30	ø8/ 6 2 br.	16.76	0.30	3030.66	1.73	25471.60	25471.60	25471.60	8.405
9 SLU	12.05	12.35	0.30	ø8/ 6 2 br.	16.76	0.30	3002.40	1.73	25471.60	25471.60	25471.60	8.484
9 SLU	12.35	17.15	4.80	ø8/20 2 br.	5.03	0.30	2696.84	2.50	11063.90	20252.70	11063.90	4.103
9 SLU	17.15	17.45	0.30	ø8/ 6 2 br.	16.76	0.30	3032.09	1.73	25471.60	25471.60	25471.60	8.401
1 TGND	17.85	18.15	0.30	ø8/ 6 2 br.	16.76	0.30	2382.10	1.73	25471.60	25471.60	25471.60	10.693
7 TGND	18.15	21.82	3.67	ø8/20 2 br.	5.03	0.30	2200.87	2.50	11063.90	20252.70	11063.90	5.027
7 TGND	21.82	22.12	0.30	ø8/ 6 2 br.	16.76	0.30	2433.37	1.73	25471.60	25471.60	25471.60	10.468
9 SLU	22.52	22.82	0.30	ø8/ 6 2 br.	16.76	0.30	2720.88	1.73	25471.60	25471.60	25471.60	9.362
9 SLU	22.82	27.22	4.40	ø8/20 2 br.	5.03	0.30	2531.37	2.50	11063.90	20252.70	11063.90	4.371
9 SLU	27.22	27.52	0.30	ø8/ 6 2 br.	16.76	0.30	2866.62	1.73	25471.60	25471.60	25471.60	8.886
1 TGND	27.92	28.22	0.30	ø8/ 6 2 br.	16.76	0.30	2596.23	1.73	25471.60	25471.60	25471.60	9.811
1 TGND	28.22	32.02	3.80	ø8/20 2 br.	5.03	0.30	2363.73	2.50	11063.90	20252.70	11063.90	4.681
7 TGND	32.02	32.32	0.30	ø8/ 6 2 br.	16.76	0.30	2457.93	1.73	25471.60	25471.60	25471.60	10.363

Travata n. 309

Nodi: 302 306 310 314 318 322 324

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
3	R	30.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	5	SLV	1	565.00	6.03	6.03	6.03	6.03	-1005.39	-5694.09	5.664
1.61	5	SLV	1	443.89	6.03	6.03	6.03	6.03	1013.34	5694.09	5.619
5.85	5	SLV	1	20.00	6.03	6.03	6.03	6.03	-2148.07	-5694.09	2.651
6.25	5	SLV	2	560.00	6.03	6.03	6.03	6.03	-1599.27	-5694.09	3.560
7.81	5	SLV	2	403.85	6.03	6.03	6.03	6.03	654.42	5694.09	8.701
11.65	5	SLV	2	20.00	6.03	6.03	6.03	6.03	-1815.30	-5694.09	3.137
12.05	5	SLV	3	560.00	6.03	6.03	6.03	6.03	-1579.58	-5694.09	3.605
14.44	9	SLU	3	321.04	6.03	6.03	6.03	6.03	719.63	5694.09	7.913
17.45	5	SLV	3	20.00	10.05	10.05	10.05	10.05	-1650.74	-8905.95	5.395
17.85	5	SLV	4	447.00	4.02	4.02	4.02	4.02	-847.87	-3741.10	4.412
18.46	5	SLV	4	386.00	4.02	4.02	4.02	4.02	-626.37	-3741.10	5.973
22.12	5	SLV	4	20.00	4.02	4.02	4.02	4.02	-1060.53	-3741.10	3.528
22.52	5	SLV	5	500.00	4.02	4.02	4.02	4.02	-919.77	-3741.10	4.067
23.77	5	SLV	5	375.00	4.02	4.02	4.02	4.02	378.03	3741.10	9.896
27.52	5	SLV	5	-0.00	4.02	4.02	4.02	4.02	-1144.20	-3741.10	3.270
27.92	5	SLV	6	480.00	4.02	4.02	4.02	4.02	-1135.40	-3741.10	3.295
31.68	5	SLV	6	104.34	4.02	4.02	4.02	4.02	590.80	3741.10	6.332
32.32	5	SLV	6	40.00	4.02	4.02	4.02	4.02	582.19	3741.10	6.426

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	565.00	6.03	6.03	-264.09	197.37	-27.06	5.54
0.40	12	SLE Q	1	565.00	6.03	6.03	-227.14	169.76	-23.27	4.77
1.61	10	SLE R	1	443.89	6.03	6.03	568.97	-58.30	425.23	11.95
1.61	12	SLE Q	1	443.89	6.03	6.03	588.74	-60.32	440.01	12.36
5.85	10	SLE R	1	20.00	6.03	6.03	-1454.93	1087.37	-149.07	30.55
5.85	12	SLE Q	1	20.00	6.03	6.03	-1487.26	1111.53	-152.39	31.22
6.25	10	SLE R	2	560.00	6.03	6.03	-800.52	598.28	-82.02	16.81
6.25	12	SLE Q	2	560.00	6.03	6.03	-810.95	606.08	-83.09	17.03
7.81	10	SLE R	2	403.85	6.03	6.03	381.18	-39.06	284.88	8.00
7.81	12	SLE Q	2	403.85	6.03	6.03	375.75	-38.50	280.82	7.89
11.65	10	SLE R	2	20.00	6.03	6.03	-1040.96	777.98	-106.66	21.85
11.65	12	SLE Q	2	20.00	6.03	6.03	-1035.28	773.73	-106.08	21.74
12.05	10	SLE R	3	560.00	6.03	6.03	-822.81	614.94	-84.31	17.27
12.05	12	SLE Q	3	560.00	6.03	6.03	-818.93	612.04	-83.91	17.19
14.44	10	SLE R	3	321.04	6.03	6.03	553.78	-56.74	413.88	11.63
14.44	12	SLE Q	3	321.04	6.03	6.03	554.79	-56.85	414.63	11.65
17.45	10	SLE R	3	20.00	10.05	10.05	-904.68	416.26	-94.82	14.84
17.45	12	SLE Q	3	20.00	10.05	10.05	-906.82	417.24	-95.04	14.87
17.85	10	SLE R	4	447.00	4.02	4.02	-262.39	295.73	-45.67	8.73
17.85	12	SLE Q	4	447.00	4.02	4.02	-269.36	303.58	-46.88	8.97
18.46	10	SLE R	4	386.00	4.02	4.02	-132.28	149.09	-23.02	4.40
18.46	12	SLE Q	4	386.00	4.02	4.02	-138.45	156.04	-24.10	4.61
22.12	10	SLE R	4	20.00	4.02	4.02	-465.69	524.86	-81.05	15.50
22.12	12	SLE Q	4	20.00	4.02	4.02	-462.36	521.10	-80.47	15.39
22.52	10	SLE R	5	500.00	4.02	4.02	-387.36	436.58	-67.42	12.89
22.52	12	SLE Q	5	500.00	4.02	4.02	-392.63	442.52	-68.33	13.07
23.77	10	SLE R	5	375.00	4.02	4.02	162.77	-28.33	183.45	5.42
23.77	12	SLE Q	5	375.00	4.02	4.02	160.21	-27.88	180.57	5.33
27.52	10	SLE R	5	-0.00	4.02	4.02	-590.50	665.53	-102.77	19.66
27.52	12	SLE Q	5	-0.00	4.02	4.02	-586.16	660.63	-102.01	19.51
27.92	10	SLE R	6	480.00	4.02	4.02	-711.11	801.46	-123.76	23.67
27.92	12	SLE Q	6	480.00	4.02	4.02	-735.77	829.26	-128.05	24.49
31.68	10	SLE R	6	104.34	4.02	4.02	223.90	-38.97	252.34	7.45
31.68	12	SLE Q	6	104.34	4.02	4.02	244.95	-42.63	276.07	8.15
32.32	10	SLE R	6	40.00	4.02	4.02	82.22	-14.31	92.66	2.74
32.32	12	SLE Q	6	40.00	4.02	4.02	112.19	-19.53	126.45	3.73

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>
12	0.40	12	SLE Q	1	4	565.00	-227.14	42.00	199.00	0.50	16.00	183.86	6.03	376.48	169.76	0.05	0.02
13	0.40	11	SLE F	1	4	565.00	-236.83	42.00	199.00	0.50	16.00	183.86	6.03	376.48	177.00	0.05	0.02
27	1.61	12	SLE Q	1	4	443.89	588.74	42.00	197.00	0.50	16.00	183.86	6.03	376.48	440.01	0.13	0.04
28	1.61	11	SLE F	1	4	443.89	583.60	42.00	197.00	0.50	16.00	183.86	6.03	376.48	436.16	0.13	0.04
39	5.85	12	SLE Q	1	4	20.00	-1487.26	42.00	199.00	0.50	16.00	183.86	6.03	376.48	1111.53	0.32	0.10
40	5.85	11	SLE F	1	4	20.00	-1478.65	42.00	199.00	0.50	16.00	183.86	6.03	376.48	1105.09	0.32	0.10
53	6.25	12	SLE Q	2	4	560.00	-810.95	42.00	199.00	0.50	16.00	183.86	6.03	376.48	606.08	0.18	0.06
54	6.25	11	SLE F	2	4	560.00	-809.21	42.00	199.00	0.50	16.00	183.86	6.03	376.48	604.78	0.18	0.06
69	7.81	12	SLE Q	2	4	403.85	375.75	42.00	197.00	0.50	16.00	183.86	6.03	376.48	280.82	0.08	0.03
70	7.81	11	SLE F	2	4	403.85	376.80	42.00	197.00	0.50	16.00	183.86	6.03	376.48	281.61	0.08	0.03
81	11.65	12	SLE Q	2	4	20.00	-1035.28	42.00	199.00	0.50	16.00	183.86	6.03	376.48	773.73	0.23	0.07
82	11.65	11	SLE F	2	4	20.00	-1035.84	42.00	199.00	0.50	16.00	183.86	6.03	376.48	774.15	0.23	0.07
95	12.05	12	SLE Q	3	4	560.00	-818.93	42.00	199.00	0.50	16.00	183.86	6.03	376.48	612.04	0.18	0.06
96	12.05	11	SLE F	3	4	560.00	-820.44	42.00	199.00	0.50	16.00	183.86	6.03	376.48	613.17	0.18	0.06
107	14.44	12	SLE Q	3	4	321.04	554.79	42.00	197.00	0.50	16.00	183.86	6.03	376.48	414.63	0.12	0.04
108	14.44	11	SLE F	3	4	321.04	554.55	42.00	197.00	0.50	16.00	183.86	6.03	376.48	414.45	0.12	0.04
120	17.45	12	SLE Q	3	4	20.00	-906.82	42.00	99.50	0.50	16.00	140.47	10.05	354.82	417.24	0.12	0.03
121	17.45	11	SLE F	3	4	20.00	-905.71	42.00	99.50	0.50	16.00	140.47	10.05	354.82	416.73	0.12	0.03
133	17.85	12	SLE Q	4	3	447.00	-269.36	42.00	198.00	0.50	16.00	172.83	4.02	223.25	303.58	0.09	0.03
134	17.85	11	SLE F	4	3	447.00	-268.38	42.00	198.00	0.50	16.00	172.83	4.02	223.25	302.48	0.09	0.03
147	18.46	12	SLE Q	4	3	386.00	-138.45	42.00	198.00	0.50	16.00	172.83	4.02	223.25	156.04	0.05	0.01
149	18.46	11	SLE F	4	3	386.00	-137.56	42.00	198.00	0.50	16.00	172.83	4.02	223.25	155.04	0.05	0.01
162	22.12	12	SLE Q	4	3	20.00	-462.36	42.00	198.00	0.50	16.00	172.83	4.02	223.25	521.10	0.15	0.04
163	22.12	11	SLE F	4	3	20.00	-462.50	42.00	198.00	0.50	16.00	172.83	4.02	223.25	521.27	0.15	0.04
175	22.52	12	SLE Q	5	3	500.00	-392.63	42.00	198.00	0.50	16.00	172.83	4.02	223.25	442.52	0.13	0.04
176	22.52	11	SLE F	5	3	500.00	-391.38	42.00	198.00	0.50	16.00	172.83	4.02	223.25	441.10	0.13	0.04
189	23.77	12	SLE Q	5	3	375.00	160.21	42.00	198.00	0.50	16.00	172.83	4.02	223.25	180.57	0.05	0.02
190	23.77	11	SLE F	5	3	375.00	160.88	42.00	198.00	0.50	16.00	172.83	4.02	223.25	181.32	0.05	0.02
202	27.52	12	SLE Q	5	3	-0.00	-586.16	42.00	198.00	0.50	16.00	172.83	4.02	223.25	660.63	0.19	0.06
203	27.52	11	SLE F	5	3	-0.00	-587.02	42.00	198.00	0.50	16.00	172.83	4.02	223.25	661.61	0.19	0.06
214	27.92	12	SLE Q	6	3	480.00	-735.77	42.00	198.00	0.50	16.00	172.83	4.02	223.25	829.26	0.24	0.07
215	27.92	11	SLE F	6	3	480.00	-728.91	42.00	198.00	0.50	16.00	172.83	4.02	223.25	821.52	0.24	0.07
228	31.68	12	SLE Q	6	3	104.34	244.95	42.00	198.00	0.50	16.00	172.83	4.02	223.25	276.07	0.08	0.02
229	31.68	11	SLE F	6	3	104.34	239.56	42.00	198.00	0.50	16.00	172.83	4.02	223.25	270.00	0.08	0.02
242	32.32	12	SLE Q	6	3	40.00	112.19	42.00	198.00	0.50	16.00	172.83	4.02	223.25	126.45	0.04	0.01
243	32.32	11	SLE F	6	3	40.00	104.41	42.00	198.00	0.50	16.00	172.83	4.02	223.25	117.68	0.03	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.

	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
7 TGND	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	1337.69	2.37	35020.20	35020.20	35020.20	26.180
5 TGND	0.70	5.55	4.85	ø10/20 2 br.	7.85	0.50	1687.62	2.50	17287.30	33754.50	17287.30	10.244
5 TGND	5.55	5.85	0.30	ø8/ 6 2 br.	16.76	0.50	1800.12	2.37	35020.20	35020.20	35020.20	19.454
7 TGND	6.25	6.55	0.30	ø8/ 6 2 br.	16.76	0.50	1574.90	2.37	35020.20	35020.20	35020.20	22.236
5 TGND	6.55	11.35	4.80	ø10/20 2 br.	7.85	0.50	1545.49	2.50	17287.30	33754.50	17287.30	11.186
5 TGND	11.35	11.65	0.30	ø8/ 6 2 br.	16.76	0.50	1657.99	2.37	35020.20	35020.20	35020.20	21.122
7 TGND	12.05	12.35	0.30	ø8/ 6 2 br.	16.76	0.50	1575.59	2.37	35020.20	35020.20	35020.20	22.227
5 TGND	12.35	17.15	4.80	ø10/20 2 br.	7.85	0.50	1495.64	2.50	17287.30	33754.50	17287.30	11.559
5 TGND	17.15	17.45	0.30	ø8/ 6 2 br.	16.76	0.50	1608.14	2.37	35020.20	35020.20	35020.20	21.777
7 TGND	17.85	18.15	0.30	ø8/ 6 2 br.	16.76	0.30	1008.17	1.73	25471.60	25471.60	25471.60	25.265
5 TGND	18.15	21.82	3.67	ø8/20 2 br.	5.03	0.30	1031.07	2.50	11063.90	20252.70	11063.90	10.730
5 TGND	21.82	22.12	0.30	ø8/ 6 2 br.	16.76	0.30	1098.57	1.73	25471.60	25471.60	25471.60	23.186
7 TGND	22.52	22.82	0.30	ø8/ 6 2 br.	16.76	0.30	975.08	1.73	25471.60	25471.60	25471.60	26.123
5 TGND	22.82	27.22	4.40	ø8/20 2 br.	5.03	0.30	984.98	2.50	11063.90	20252.70	11063.90	11.233
5 TGND	27.22	27.52	0.30	ø8/ 6 2 br.	16.76	0.30	1052.48	1.73	25471.60	25471.60	25471.60	24.201
7 TGND	27.92	28.22	0.30	ø8/ 6 2 br.	16.76	0.30	1082.97	1.73	25471.60	25471.60	25471.60	23.520
7 TGND	28.22	32.02	3.80	ø8/20 2 br.	5.03	0.30	1015.46	2.50	11063.90	20252.70	11063.90	10.895
5 TGND	32.02	32.32	0.30	ø8/ 6 2 br.	16.76	0.30	739.44	1.73	25471.60	25471.60	25471.60	34.447

Travata n. 310

Nodi: 303 307 311 315 319 326

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
3	R	30.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	5	SLV	1	40.00	6.03	6.03	6.03	6.03	-1366.31	-5694.09	4.168
1.91	5	SLV	1	191.39	6.03	6.03	6.03	6.03	845.89	5694.09	6.731
5.85	5	SLV	1	585.00	6.03	6.03	6.03	6.03	-1775.89	-5694.09	3.206
6.25	5	SLV	2	20.00	6.03	6.03	6.03	6.03	-1411.93	-5694.09	4.033
8.55	9	SLU	2	250.00	6.03	6.03	6.03	6.03	674.40	5694.09	8.443
11.65	5	SLV	2	560.00	6.03	6.03	6.03	6.03	-1688.59	-5694.09	3.372
12.05	5	SLV	3	20.00	6.03	6.03	6.03	6.03	-1447.49	-5694.09	3.934
14.46	9	SLU	3	260.57	6.03	6.03	6.03	6.03	721.88	5694.09	7.888
17.45	5	SLV	3	560.00	10.05	10.05	10.05	10.05	-1501.23	-8905.95	5.932
17.85	5	SLV	4	20.00	4.02	4.02	4.02	4.02	-801.36	-3741.10	4.668
18.46	5	SLV	4	81.00	4.02	4.02	4.02	4.02	-590.49	-3741.10	6.336
22.12	5	SLV	4	447.00	4.02	4.02	4.02	4.02	-984.50	-3741.10	3.800
22.52	5	SLV	5	20.00	4.02	4.02	4.02	4.02	-1198.31	-3741.10	3.122
26.27	5	SLV	5	395.00	4.02	4.02	4.02	4.02	551.65	3741.10	6.782
27.52	5	SLV	5	520.00	4.02	4.02	4.02	4.02	-969.26	-3741.10	3.860

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	40.00	6.03	6.03	-642.01	479.82	-65.78	13.48
0.40	12	SLE Q	1	40.00	6.03	6.03	-591.09	441.76	-60.56	12.41
1.91	10	SLE R	1	191.39	6.03	6.03	506.84	-51.93	378.79	10.64
1.91	12	SLE Q	1	191.39	6.03	6.03	525.90	-53.89	393.04	11.04
5.85	10	SLE R	1	585.00	6.03	6.03	-1028.84	768.92	-105.42	21.60
5.85	12	SLE Q	1	585.00	6.03	6.03	-1079.89	807.07	-110.65	22.67
6.25	10	SLE R	2	20.00	6.03	6.03	-756.91	565.69	-77.56	15.89
6.25	12	SLE Q	2	20.00	6.03	6.03	-768.95	574.69	-78.79	16.14
8.55	10	SLE R	2	250.00	6.03	6.03	517.93	-53.07	387.08	10.87
8.55	12	SLE Q	2	250.00	6.03	6.03	514.00	-52.67	384.15	10.79
11.65	10	SLE R	2	560.00	6.03	6.03	-1042.62	779.22	-106.83	21.89
11.65	12	SLE Q	2	560.00	6.03	6.03	-1036.82	774.88	-106.23	21.77
12.05	10	SLE R	3	20.00	6.03	6.03	-829.76	620.13	-85.02	17.42
12.05	12	SLE Q	3	20.00	6.03	6.03	-824.95	616.54	-84.53	17.32
14.46	10	SLE R	3	260.57	6.03	6.03	555.29	-56.90	415.01	11.66
14.46	12	SLE Q	3	260.57	6.03	6.03	556.07	-56.98	415.58	11.67
17.45	10	SLE R	3	560.00	10.05	10.05	-894.76	411.69	-93.78	14.68
17.45	12	SLE Q	3	560.00	10.05	10.05	-898.26	413.30	-94.15	14.73
17.85	10	SLE R	4	20.00	4.02	4.02	-275.57	310.59	-47.96	9.17
17.85	12	SLE Q	4	20.00	4.02	4.02	-284.92	321.12	-49.59	9.48
18.46	10	SLE R	4	81.00	4.02	4.02	-144.75	163.15	-25.19	4.82
18.46	12	SLE Q	4	81.00	4.02	4.02	-153.41	172.90	-26.70	5.11
22.12	10	SLE R	4	447.00	4.02	4.02	-469.67	529.35	-81.74	15.63
22.12	12	SLE Q	4	447.00	4.02	4.02	-470.01	529.73	-81.80	15.65
22.52	10	SLE R	5	20.00	4.02	4.02	-532.71	600.39	-92.71	17.73
22.52	12	SLE Q	5	20.00	4.02	4.02	-598.69	674.76	-104.19	19.93
26.27	10	SLE R	5	395.00	4.02	4.02	191.56	-33.34	215.90	6.38
26.27	12	SLE Q	5	395.00	4.02	4.02	223.96	-38.98	252.41	7.45
27.52	10	SLE R	5	520.00	4.02	4.02	-375.15	422.81	-65.29	12.49
27.52	12	SLE Q	5	520.00	4.02	4.02	-303.57	342.14	-52.83	10.10

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>
11	0.40	12	SLE Q	1	4	40.00	-591.09	42.00	199.00	0.50	16.00	183.86	6.03	376.48	441.76	0.13	0.04
12	0.40	11	SLE F	1	4	40.00	-603.01	42.00	199.00	0.50	16.00	183.86	6.03	376.48	450.67	0.13	0.04
25	1.91	12	SLE Q	1	4	191.39	525.90	42.00	197.00	0.50	16.00	183.86	6.03	376.48	393.04	0.11	0.04
26	1.91	11	SLE F	1	4	191.39	521.43	42.00	197.00	0.50	16.00	183.86	6.03	376.48	389.70	0.11	0.04
37	5.85	12	SLE Q	1	4	585.00	-1079.89	42.00	199.00	0.50	16.00	183.86	6.03	376.48	807.07	0.24	0.07
38	5.85	11	SLE F	1	4	585.00	-1067.95	42.00	199.00	0.50	16.00	183.86	6.03	376.48	798.15	0.23	0.07
51	6.25	12	SLE Q	2	4	20.00	-768.95	42.00	199.00	0.50	16.00	183.86	6.03	376.48	574.69	0.17	0.05
52	6.25	11	SLE F	2	4	20.00	-766.36	42.00	199.00	0.50	16.00	183.86	6.03	376.48	572.75	0.17	0.05
63	8.55	12	SLE Q	2	4	250.00	514.00	42.00	197.00	0.50	16.00	183.86	6.03	376.48	384.15	0.11	0.03
64	8.55	11	SLE F	2	4	250.00	514.90	42.00	197.00	0.50	16.00	183.86	6.03	376.48	384.82	0.11	0.04
75	11.65	12	SLE Q	2	4	560.00	-1036.82	42.00	199.00	0.50	16.00	183.86	6.03	376.48	774.88	0.23	0.07
76	11.65	11	SLE F	2	4	560.00	-1037.96	42.00	199.00	0.50	16.00	183.86	6.03	376.48	775.74	0.23	0.07
87	12.05	12	SLE Q	3	4	20.00	-824.95	42.00	199.00	0.50	16.00	183.86	6.03	376.48	616.54	0.18	0.06
88	12.05	11	SLE F	3	4	20.00	-826.10	42.00	199.00	0.50	16.00	183.86	6.03	376.48	617.40	0.18	0.06
99	14.46	12	SLE Q	3	4	260.57	556.07	42.00	197.00	0.50	16.00	183.86	6.03	376.48	415.58	0.12	0.04
100	14.46	11	SLE F	3	4	260.57	555.90	42.00	197.00	0.50	16.00	183.86	6.03	376.48	415.46	0.12	0.04
111	17.45	12	SLE Q	3	4	560.00	-898.26	42.00	99.50	0.50	16.00	140.47	10.05	354.82	413.30	0.12	0.03
112	17.45	11	SLE F	3	4	560.00	-897.38	42.00	99.50	0.50	16.00	140.47	10.05	354.82	412.90	0.12	0.03
124	17.85	12	SLE Q	4	3	20.00	-284.92	42.00	198.00	0.50	16.00	172.83	4.02	223.25	321.12	0.09	0.03
125	17.85	11	SLE F	4	3	20.00	-282.81	42.00	198.00	0.50	16.00	172.83	4.02	223.25	318.74	0.09	0.03
140	18.46	12	SLE Q	4	3	81.00	-153.41	42.00	198.00	0.50	16.00	172.83	4.02	223.25	172.90	0.05	0.01
142	18.46	11	SLE F	4	3	81.00	-151.43	42.00	198.00	0.50	16.00	172.83	4.02	223.25	170.67	0.05	0.01
153	22.12	12	SLE Q	4	3	447.00	-470.01	42.00	198.00	0.50	16.00	172.83	4.02	223.25	529.73	0.15	0.05
154	22.12	11	SLE F	4	3	447.00	-469.70	42.00	198.00	0.50	16.00	172.83	4.02	223.25	529.38	0.15	0.05
166	22.52	12	SLE Q	5	3	20.00	-598.69	42.00	198.00	0.50	16.00	172.83	4.02	223.25	674.76	0.20	0.06
167	22.52	11	SLE F	5	3	20.00	-581.78	42.00	198.00	0.50	16.00	172.83	4.02	223.25	655.70	0.19	0.06
179	26.27	12	SLE Q	5	3	395.00	223.96	42.00	198.00	0.50	16.00	172.83	4.02	223.25	252.41	0.07	0.02
180	26.27	11	SLE F	5	3	395.00	215.59	42.00	198.00	0.50	16.00	172.83	4.02	223.25	242.98	0.07	0.02
191	27.52	12	SLE Q	5	3	520.00	-303.57	42.00	198.00	0.50	16.00	172.83	4.02	223.25	342.14	0.10	0.03
192	27.52	11	SLE F	5	3	520.00	-322.00	42.00	198.00	0.50	16.00	172.83	4.02	223.25	362.91	0.11	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5 TGND	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.50	1493.05	2.37	35020.20	35020.20	35020.20	23.456
7 TGND	0.70	5.55	4.85	ø10/20 2 br.	7.85	0.50	1559.92	2.50	17287.30	33754.50	17287.30	11.082
7 TGND	5.55	5.85	0.30	ø8/ 6 2 br.	16.76	0.50	1672.42	2.37	35020.20	35020.20	35020.20	20.940
5 TGND	6.25	6.55	0.30	ø8/ 6 2 br.	16.76	0.50	1461.15	2.37	35020.20	35020.20	35020.20	23.968
7 TGND	6.55	11.35	4.80	ø10/20 2 br.	7.85	0.50	1447.86	2.50	17287.30	33754.50	17287.30	11.940
7 TGND	11.35	11.65	0.30	ø8/ 6 2 br.	16.76	0.50	1560.36	2.37	35020.20	35020.20	35020.20	22.444
5 TGND	12.05	12.35	0.30	ø8/ 6 2 br.	16.76	0.50	1470.35	2.37	35020.20	35020.20	35020.20	23.818
7 TGND	12.35	17.15	4.80	ø10/20 2 br.	7.85	0.50	1385.00	2.50	17287.30	33754.50	17287.30	12.482
7 TGND	17.15	17.45	0.30	ø8/ 6 2 br.	16.76	0.50	1497.50	2.37	35020.20	35020.20	35020.20	23.386
5 TGND	17.85	18.15	0.30	ø8/ 6 2 br.	16.76	0.30	938.88	1.73	25471.60	25471.60	25471.60	27.130
7 TGND	18.15	21.82	3.67	ø8/20 2 br.	5.03	0.30	958.07	2.50	11063.90	20252.70	11063.90	11.548
7 TGND	21.82	22.12	0.30	ø8/ 6 2 br.	16.76	0.30	1025.57	1.73	25471.60	25471.60	25471.60	24.836
5 TGND	22.52	22.82	0.30	ø8/ 6 2 br.	16.76	0.30	1147.43	1.73	25471.60	25471.60	25471.60	22.199
5 TGND	22.82	27.22	4.40	ø8/20 2 br.	5.03	0.30	1079.93	2.50	11063.90	20252.70	11063.90	10.245
7 TGND	27.22	27.52	0.30	ø8/ 6 2 br.	16.76	0.30	1029.38	1.73	25471.60	25471.60	25471.60	24.745

Travata n. 311

Nodi: 304 308 312 316 320 327

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>
3	R	30.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	9	SLU	1	565.00	4.02	4.02	4.02	4.02	-2400.69	-3741.10	1.558
2.76	9	SLU	1	328.80	4.02	4.02	4.02	4.02	1643.80	3741.10	2.276
5.85	9	SLU	1	20.00	4.02	4.02	4.02	4.02	-2916.75	-3741.10	1.283
6.25	9	SLU	2	560.00	4.02	4.02	4.02	4.02	-2609.28	-3741.10	1.434
8.67	9	SLU	2	317.64	4.02	4.02	4.02	4.02	1557.70	3741.10	2.402
11.65	9	SLU	2	20.00	4.02	4.02	4.02	4.02	-2705.40	-3741.10	1.383
12.05	9	SLU	3	560.00	4.02	4.02	4.02	4.02	-2752.45	-3741.10	1.359
14.59	9	SLU	3	305.88	4.02	4.02	4.02	4.02	1566.11	3741.10	2.389
17.45	9	SLU	3	20.00	4.02	4.02	4.02	4.02	-2547.93	-3741.10	1.468
17.85	5	SLV	4	447.00	4.02	4.02	4.02	4.02	-1885.47	-3741.10	1.984
18.82	5	SLV	4	349.79	4.02	4.02	4.02	4.02	1001.16	3741.10	3.737
22.12	5	SLV	4	20.00	4.02	4.02	4.02	4.02	-2645.48	-3741.10	1.414
22.52	5	SLV	5	500.00	4.02	4.02	4.02	4.02	-2107.01	-3741.10	1.776
24.60	9	SLU	5	292.15	4.02	4.02	4.02	4.02	1379.30	3741.10	2.712
27.52	9	SLU	5	0.00	4.02	4.02	4.02	4.02	-2796.73	-3741.10	1.338

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	565.00	4.02	4.02	-1661.89	1873.04	-289.23	55.32

0.40	12	SLE Q	1	565.00	4.02	4.02	-1648.20	1857.62	-286.85	54.86
2.76	10	SLE R	1	328.80	4.02	4.02	1140.19	-198.44	1285.06	37.95
2.76	12	SLE Q	1	328.80	4.02	4.02	1140.56	-198.50	1285.47	37.97
5.85	10	SLE R	1	20.00	4.02	4.02	-2025.64	2283.00	-352.53	67.43
5.85	12	SLE Q	1	20.00	4.02	4.02	-2039.56	2298.70	-354.96	67.89
6.25	10	SLE R	2	560.00	4.02	4.02	-1806.08	2035.55	-314.32	60.12
6.25	12	SLE Q	2	560.00	4.02	4.02	-1796.23	2024.45	-312.61	59.79
8.67	10	SLE R	2	317.64	4.02	4.02	1080.37	-188.02	1217.64	35.96
8.67	12	SLE Q	2	317.64	4.02	4.02	1080.13	-187.98	1217.36	35.95
11.65	10	SLE R	2	20.00	4.02	4.02	-1879.59	2118.40	-327.12	62.57
11.65	12	SLE Q	2	20.00	4.02	4.02	-1890.04	2130.18	-328.94	62.91
12.05	10	SLE R	3	560.00	4.02	4.02	-1905.49	2147.59	-331.62	63.43
12.05	12	SLE Q	3	560.00	4.02	4.02	-1891.50	2131.82	-329.19	62.96
14.59	10	SLE R	3	305.88	4.02	4.02	1086.12	-189.03	1224.12	36.15
14.59	12	SLE Q	3	305.88	4.02	4.02	1085.30	-188.88	1223.19	36.13
17.45	10	SLE R	3	20.00	4.02	4.02	-1770.29	1995.22	-308.10	58.93
17.45	12	SLE Q	3	20.00	4.02	4.02	-1785.47	2012.32	-310.74	59.43
17.85	10	SLE R	4	447.00	4.02	4.02	-772.02	870.11	-134.36	25.70
17.85	12	SLE Q	4	447.00	4.02	4.02	-785.99	885.85	-136.79	26.16
18.82	10	SLE R	4	349.79	4.02	4.02	510.27	-88.81	575.10	16.99
18.82	12	SLE Q	4	349.79	4.02	4.02	503.03	-87.55	566.94	16.74
22.12	10	SLE R	4	20.00	4.02	4.02	-1552.94	1750.25	-270.27	51.69
22.12	12	SLE Q	4	20.00	4.02	4.02	-1541.75	1737.64	-268.32	51.32
22.52	10	SLE R	5	500.00	4.02	4.02	-1242.65	1400.54	-216.27	41.36
22.52	12	SLE Q	5	500.00	4.02	4.02	-1339.29	1509.45	-233.08	44.58
24.60	10	SLE R	5	292.15	4.02	4.02	952.32	-165.74	1073.31	31.70
24.60	12	SLE Q	5	292.15	4.02	4.02	946.13	-164.66	1066.34	31.49
27.52	10	SLE R	5	0.00	4.02	4.02	-1891.33	2131.63	-329.16	62.96
27.52	12	SLE Q	5	0.00	4.02	4.02	-1794.52	2022.52	-312.31	59.73

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>
11	0.40	12	SLE Q	1	3	565.00	-1648.20	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1857.62	0.55	0.16
12	0.40	11	SLE F	1	3	565.00	-1651.13	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1860.91	0.54	0.16
23	2.76	12	SLE Q	1	3	328.80	1140.56	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1285.47	0.37	0.11
24	2.76	11	SLE F	1	3	328.80	1140.48	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1285.39	0.37	0.11
35	5.85	12	SLE Q	1	3	20.00	-2039.56	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2298.70	0.76	0.22
36	5.85	11	SLE F	1	3	20.00	-2036.58	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2295.34	0.67	0.20
47	6.25	12	SLE Q	2	3	560.00	-1796.23	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2024.45	0.63	0.19
48	6.25	11	SLE F	2	3	560.00	-1798.38	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2026.87	0.59	0.17
59	8.67	12	SLE Q	2	3	317.64	1080.13	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1217.36	0.35	0.10
60	8.67	11	SLE F	2	3	317.64	1080.19	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1217.43	0.35	0.10
71	11.65	12	SLE Q	2	3	20.00	-1890.04	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2130.18	0.68	0.20
72	11.65	11	SLE F	2	3	20.00	-1887.74	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2127.59	0.62	0.18
83	12.05	12	SLE Q	3	3	560.00	-1891.50	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2131.82	0.68	0.20
84	12.05	11	SLE F	3	3	560.00	-1894.61	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2135.33	0.62	0.18
95	14.59	12	SLE Q	3	3	305.88	1085.30	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1223.19	0.36	0.10
96	14.59	11	SLE F	3	3	305.88	1085.51	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1223.42	0.36	0.10
107	17.45	12	SLE Q	3	3	20.00	-1785.47	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2012.32	0.62	0.18
108	17.45	11	SLE F	3	3	20.00	-1782.05	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2008.47	0.58	0.17
120	17.85	12	SLE Q	4	3	447.00	-785.99	42.00	198.00	0.50	16.00	172.83	4.02	223.25	885.85	0.26	0.08
121	17.85	11	SLE F	4	3	447.00	-781.81	42.00	198.00	0.50	16.00	172.83	4.02	223.25	881.14	0.26	0.08
136	18.82	12	SLE Q	4	3	349.79	503.03	42.00	198.00	0.50	16.00	172.83	4.02	223.25	566.94	0.17	0.05
137	18.82	11	SLE F	4	3	349.79	505.15	42.00	198.00	0.50	16.00	172.83	4.02	223.25	569.33	0.17	0.05
148	22.12	12	SLE Q	4	3	20.00	-1541.75	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1737.64	0.51	0.15
149	22.12	11	SLE F	4	3	20.00	-1545.23	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1741.56	0.51	0.15
160	22.52	12	SLE Q	5	3	500.00	-1339.29	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1509.45	0.44	0.13
161	22.52	11	SLE F	5	3	500.00	-1314.36	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1481.36	0.43	0.13
172	24.60	12	SLE Q	5	3	292.15	946.13	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1066.34	0.31	0.09
173	24.60	11	SLE F	5	3	292.15	947.64	42.00	198.00	0.50	16.00	172.83	4.02	223.25	1068.04	0.31	0.09
184	27.52	12	SLE Q	5	3	0.00	-1794.52	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2022.52	0.63	0.18
185	27.52	11	SLE F	5	3	0.00	-1819.50	42.00	198.00	0.50	16.00	172.83	4.02	223.25	2050.67	0.60	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.30	2950.50	1.73	25471.60	25471.60	25471.60	8.633
9 SLU	0.70	5.55	4.85	ø8/20 2 br.	5.03	0.30	2804.62	2.50	11063.90	20252.70	11063.90	3.945
9 SLU	5.55	5.85	0.30	ø8/ 6 2 br.	16.76	0.30	3139.88	1.73	25471.60	25471.60	25471.60	8.112
9 SLU	6.25	6.55	0.30	ø8/ 6 2 br.	16.76	0.30	2999.45	1.73	25471.60	25471.60	25471.60	8.492
9 SLU	6.55	11.35	4.80	ø8/20 2 br.	5.03	0.30	2699.80	2.50	11063.90	20252.70	11063.90	4.098
9 SLU	11.35	11.65	0.30	ø8/ 6 2 br.	16.76	0.30	3035.05	1.73	25471.60	25471.60	25471.60	8.392
9 SLU	12.05	12.35	0.30	ø8/ 6 2 br.	16.76	0.30	3055.12	1.73	25471.60	25471.60	25471.60	8.337
9 SLU	12.35	17.15	4.80	ø8/20 2 br.	5.03	0.30	2719.87	2.50	11063.90	20252.70	11063.90	4.068
9 SLU	17.15	17.45	0.30	ø8/ 6 2 br.	16.76	0.30	2979.37	1.73	25471.60	25471.60	25471.60	8.549
7 TGND	17.85	18.15	0.30	ø8/ 6 2 br.	16.76	0.30	2549.97	1.73	25471.60	25471.60	25471.60	9.989
5 TGND	18.15	21.82	3.67	ø8/20 2 br.	5.03	0.30	2671.45	2.50	11063.90	20252.70	11063.90	4.142
5 TGND	21.82	22.12	0.30	ø8/ 6 2 br.	16.76	0.30	2903.95	1.73	25471.60	25471.60	25471.60	8.771
9 SLU	22.52	22.82	0.30	ø8/ 6 2 br.	16.76	0.30	2578.65	1.73	25471.60	25471.60	25471.60	9.878
9 SLU	22.82	27.22	4.40	ø8/20 2 br.	5.03	0.30	2673.60	2.50	11063.90	20252.70	11063.90	4.138
9 SLU	27.22	27.52	0.30	ø8/ 6 2 br.	16.76	0.30	3008.85	1.73	25471.60	25471.60	25471.60	8.466

Verifiche e armature pilastri

Simbologia

Δ_{sm} = Distanza media tra le fessure
$E_{sy,d}$ = Deformazione di snervamento dell'acciaio
Φ_{eq} = Diametro equivalente delle barre
α_e = Coefficiente di efficacia del confinamento
α_y = Fattore di amplificazione momenti My per gerarchia delle resistenze
α_z = Fattore di amplificazione momenti Mz per gerarchia delle resistenze
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
$\mu\Phi_c$ = Capacità della duttilità di curvatura
$\mu\Phi_d$ = Domanda della duttilità di curvatura
νd_S = Sforzo normale normalizzato del pilastro superiore (%)
νd_i = Sforzo normale normalizzato del pilastro inferiore (%)
σ_c = Tensione nel calcestruzzo
σ_f = Tensione nel ferro
σ_s = Tensione nell'acciaio nella sezione fessurata
ω_{wd} = Rapporto meccanico dell'armatura trasversale di confinamento all'interno della zona dissipativa
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
AfC = Area di ferro compressa
AfT = Area di ferro tesa
Afni = Azione di fessurazione sul nodo integro [7.4.10]
As1 = Area di ferro superiore delle travi incidenti sulla faccia
As2 = Area di ferro inferiore delle travi incidenti sulla faccia
Ash = Area totale della sezione della staffa
B = Base
Bj = Larghezza effettiva utile del nodo
Br_y = Numero bracci in dir. Y locale
Br_z = Numero bracci in dir. Z locale
Br. = Numero bracci
CC = Combinazione delle condizioni di carico elementari
e = eccentricità aggiuntiva in caso di compressione o pressoflessione
α = amplificazione per gerarchia delle resistenze
TG = taglio da gerarchia delle resistenze
Cf = Copriferro
Cls = Tipo di calcestruzzo
Conf. = Nodo confinato
S = Sì
N = No
El = Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
F = Identificativo faccia del nodo
Y+ = Faccia sul lato positivo Y locale pilastro
Z+ = Faccia sul lato positivo Z locale pilastro
Y- = Faccia sul lato negativo Y locale pilastro
Z- = Faccia sul lato negativo Z locale pilastro
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
H = Altezza
Hjc = Distanza tra armature pilastro
Hjw = Distanza tra armature trave
K_2 = Coefficiente per distribuzione deformazioni
M'ydy,r = Momento resistente massimo in campo sostanzialmente elastico (ridotto del 30%) intorno all'asse Y
M'ydz,r = Momento resistente massimo in campo sostanzialmente elastico (ridotto del 30%) intorno all'asse Z
MRdy,r = Momento resistente allo stato limite ultimo (ridotto del 30%) intorno all'asse Y
MRdz,r = Momento resistente allo stato limite ultimo (ridotto del 30%) intorno all'asse Z
Mod. = Modalità di verifica faccia
I = Interna
E = Esterna
My = Momento flettente intorno all'asse Y
My ver. = Momento flettente di verifica intorno all'asse Y
Mz = Momento flettente intorno all'asse Z
Mz ver. = Momento flettente di verifica intorno all'asse Z
N = Sforzo normale
Nodo = Numero del nodo
Nu = Sforzo normale ultimo
Rfni = Resistenza a fessurazione nodo integro [7.4.10]
Sez. = Numero della sezione
Sic. = Sicurezza
Staff. = Staffatura adottata
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tipo = Tipologia
R = Rettangolare
Tp = Tipo di acciaio
$VRcd,_y$ = Taglio ultimo lato calcestruzzo in dir. Y
$VRcd,_z$ = Taglio ultimo lato calcestruzzo in dir. Z
$VRsd,_y$ = Taglio ultimo lato armatura in dir. Y
$VRsd,_z$ = Taglio ultimo lato armatura in dir. Z
Vc = Taglio nel pilastro al di sopra del nodo
VjbR = Resistenza a compressione del nucleo di calcestruzzo [7.4.8]
Vjbd = Taglio agente nel nucleo di calcestruzzo [7.4.6/7]
VjwR = Resistenza a trazione diagonale [7.4.11/12]
Vjwd = Azione agente di trazione diagonale [7.4.11/12]
$Vrd,_y$ = Taglio resistente in dir. Y
$Vrd,_z$ = Taglio resistente in dir. Z
$Vsdu,_y$ = Taglio agente in dir. Y
$Vsdu,_z$ = Taglio agente in dir. Z
Wk = Ampiezza caratteristica delle fessure
X = Coordinata progressiva rispetto al nodo iniziale

X0 = Coordinata progressiva (dal nodo iniziale) dell'inizio del tratto
X1 = Coordinata progressiva (dal nodo iniziale) della fine del tratto
Xg = Coordinata progressiva (dal primo nodo) in cui viene effettuato il progetto/verifica
b_c/b_0 = Rapporto tra la larghezza minima della sezione trasversale lorda e la larghezza del nucleo confinato
bw_y = Larghezza membratura resistente al taglio in dir. Y
bw_z = Larghezza membratura resistente al taglio in dir. Z
c = Ricoprimento dell'armatura
$ctg\theta_y$ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Y
$ctg\theta_z$ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Z
d_y = Altezza utile per resistenza al taglio in dir. Y
d_z = Altezza utile per resistenza al taglio in dir. Z
s = Distanza massima tra le barre
v_d = Forza assiale adimensionalizzata di progetto

Pilastrata n. 1

Nodi: 1 -919 -1038 -1157 101 301

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	40.00	50.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	1965.70	0.00	0.00	877.91	877.91	1965.70	0.00	9852.95	11.223
0.00	1	SLV	1	1	0.00	1965.70	0.00	0.00	877.91	877.91	1965.70	0.00	9852.95	11.223
0.93	1	SLV	1	1	93.33	2432.37	-344.87	-344.87	0.00	0.00	2432.37	-12664.40	0.00	36.723
0.93	9	SLU	2	1	0.00	-2756.01	-439.60	-439.60	0.00	0.00	-2756.01	-13381.20	0.00	30.440
1.62	1	SLV	2	1	68.33	-192.43	-673.02	-673.02	0.00	0.00	-192.43	-13031.30	0.00	19.363
1.62	1	SLV	3	1	0.00	-2939.57	-768.15	-768.15	0.00	0.00	-2939.57	-13406.20	0.00	17.453
2.30	1	SLV	3	1	68.33	-2597.91	1567.00	1567.00	0.00	0.00	-2597.91	13359.30	0.00	8.525
2.30	1	SLV	4	1	0.00	-5852.14	2040.79	2040.79	0.00	0.00	-5852.14	13803.00	0.00	6.764
2.80	1	SLV	4	1	50.00	-5602.14	11962.00	11962.00	0.00	0.00	-5602.14	13769.10	0.00	1.151
2.80	1	SLV	5	1	0.00	-9647.46	13135.40	13135.40	0.00	0.00	-9647.46	14316.10	0.00	1.090
2.80	1	SLV	5	1	0.00	-9647.46	13135.40	13135.40	0.00	0.00	-9647.46	14316.10	0.00	1.090
7.10	1	SLV	5	1	430.00	-7497.46	-11923.30	-11923.30	0.00	0.00	-7497.46	-14026.00	0.00	1.176

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	1703.25	594.31	0.00	14.58	8.29	5.86	286.82
0.00	12	SLE Q	1	1	0.00	1513.39	535.11	0.00	14.58	8.29	5.28	257.25
0.00	10	SLE R	1	1	0.00	1703.25	594.31	0.00	14.58	8.29	5.86	286.82
0.00	12	SLE Q	1	1	0.00	1513.39	535.11	0.00	14.58	8.29	5.28	257.25
0.93	10	SLE R	1	1	93.33	2169.92	0.00	-192.22	22.87	0.00	0.00	146.64
0.93	12	SLE Q	1	1	93.33	1980.06	0.00	-168.35	22.87	0.00	0.00	131.91
0.93	10	SLE R	2	1	0.00	-1940.54	0.00	-311.66	9.42	13.45	2.49	31.60
0.93	12	SLE Q	2	1	0.00	-1808.05	0.00	-280.50	9.42	13.45	2.25	28.69
1.62	10	SLE R	2	1	68.33	-1598.87	0.00	-209.48	9.42	13.45	1.73	22.51
1.62	12	SLE Q	2	1	68.33	-1466.38	0.00	-180.19	9.42	13.45	1.51	19.81
1.62	10	SLE R	3	1	0.00	-6016.52	0.00	-268.89	0.00	22.87	3.84	53.61
1.62	12	SLE Q	3	1	0.00	-5529.56	0.00	-235.33	0.00	22.87	3.48	48.61
2.30	10	SLE R	3	1	68.33	-5674.86	0.00	497.63	0.00	22.87	4.79	64.27
2.30	12	SLE Q	3	1	68.33	-5187.90	0.00	441.85	0.00	22.87	4.31	58.02
2.30	10	SLE R	4	1	0.00	-8991.18	0.00	622.88	0.00	22.87	6.80	92.53
2.30	12	SLE Q	4	1	0.00	-8260.52	0.00	550.66	0.00	22.87	6.14	83.79
2.80	10	SLE R	4	1	50.00	-8741.18	0.00	3741.92	13.45	9.42	29.15	557.23
2.80	12	SLE Q	4	1	50.00	-8010.52	0.00	3291.30	13.45	9.42	25.67	477.78
2.80	10	SLE R	5	1	0.00	-12763.70	0.00	4095.58	13.45	9.42	32.10	491.65
2.80	12	SLE Q	5	1	0.00	-11745.10	0.00	3601.48	13.45	9.42	28.25	414.09
2.80	10	SLE R	5	1	0.00	-12763.70	0.00	4095.58	13.45	9.42	32.10	491.65
2.80	12	SLE Q	5	1	0.00	-11745.10	0.00	3601.48	13.45	9.42	28.25	414.09
7.10	10	SLE R	5	1	430.00	-10613.70	0.00	-7664.55	13.45	9.42	58.85	1433.40
7.10	12	SLE Q	5	1	430.00	-9595.09	0.00	-6743.20	13.45	9.42	51.82	1250.44

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	1513.39	0.00	535.11	43.00	197.01	1.00	18.86	326.86	8.29	529.69	257.25	0.07	0.04
0.00	11	SLE F	1	1	0.00	1554.53	0.00	548.67	43.00	197.01	1.00	18.86	326.90	8.29	529.77	263.91	0.08	0.04
0.00	12	SLE Q	1	1	0.00	1513.39	0.00	535.11	43.00	197.01	1.00	18.86	326.86	8.29	529.69	257.25	0.07	0.04
0.00	11	SLE F	1	1	0.00	1554.53	0.00	548.67	43.00	197.01	1.00	18.86	326.90	8.29	529.77	263.91	0.08	0.04
0.93	12	SLE Q	1	1	93.33	1980.06	0.00	59.09	43.00	247.00	1.00	19.16	366.35	22.87	1673.44	110.98	0.03	0.02
0.93	11	SLE F	1	1	93.33	2021.20	0.00	60.12	43.00	247.00	1.00	19.16	366.35	22.87	1673.44	113.20	0.03	0.02
2.80	12	SLE Q	4	1	50.00	-8010.52	3291.30	0.00	43.00	147.00	0.50	20.00	171.03	9.42	400.69	477.78	0.14	0.04
2.80	11	SLE F	4	1	50.00	-8152.62	3371.66	0.00	43.00	147.00	0.50	20.00	171.16	9.42	401.33	491.48	0.14	0.04
2.80	12	SLE Q	5	1	0.00	-11745.10	3601.48	0.00	43.00	147.00	0.50	20.00	163.51	9.42	365.25	414.09	0.12	0.03
2.80	11	SLE F	5	1	0.00	-11935.40	3689.59	0.00	43.00	147.00	0.50	20.00	163.76	9.42	366.44	427.59	0.12	0.03
2.80	12	SLE Q	5	1	0.00	-11745.10	3601.48	0.00	43.00	147.00	0.50	20.00	163.51	9.42	365.25	414.09	0.12	0.03
2.80	11	SLE F	5	1	0.00	-11935.40	3689.59	0.00	43.00	147.00	0.50	20.00	163.76	9.42	366.44	427.59	0.12	0.03
7.10	12	SLE Q	5	1	430.00	-9595.09	-6743.20	0.00	43.00	147.00	0.50	20.00	178.99	9.42	438.21	1250.44	0.36	0.11
7.10	11	SLE F	5	1	430.00	-9785.44	-6913.79	0.00	43.00	147.00	0.50	20.00	179.05	9.42	438.47	1284.24	0.37	0.11

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	bw_y <m>	d_y <m>	$Vsdu_y$ <daN>	$ctg\theta_y$	$VRsd_y$ <daN>	$VRcd_y$ <daN>	Vrd_y <daN>	bw_z <m>	d_z <m>	$Vsdu_z$ <daN>	$ctg\theta_z$	$VRsd_z$ <daN>	$VRcd_z$ <daN>	Vrd_z <daN>	Sic.

0.00	0.50	ø8/10	2	2	9	SLU	0.50	0.35	811.16	2.50	30713.30	46851.30	30713.30	0.40	0.45	769.20	2.50	39564.40	48282.50	39564.40	37.864
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	48254.40	30713.30	0.40	0.45	15306.60	2.50	39564.40	49728.50	39564.40	2.585
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	11820.40	2.50	30713.30	48254.40	30713.30	0.40	0.45	0.00	2.50	39564.40	49728.40	39564.40	2.598
0.50	2.30	ø8/15	2	2	9	SLU	0.50	0.35	811.16	2.50	20475.50	47938.40	20475.50	0.40	0.45	1591.87	2.50	26376.30	49402.80	26376.30	16.569
0.50	2.30	ø8/15	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	20475.50	48254.40	20475.50	0.40	0.45	15306.60	2.50	26376.30	49728.50	26376.30	1.723
0.50	2.30	ø8/15	2	2	1(TG)	SLV	0.50	0.35	11820.40	2.50	20475.50	48254.40	20475.50	0.40	0.45	0.00	2.50	26376.30	49728.40	26376.30	1.732
2.30	2.80	ø8/10	2	2	9	SLU	0.50	0.35	1581.03	2.50	30713.30	48561.50	30713.30	0.40	0.45	8876.39	2.50	39564.40	50045.00	39564.40	4.457
2.30	2.80	ø8/10	2	2	1	SLV	0.50	0.35	4605.34	2.50	30713.30	48287.40	30713.30	0.40	0.45	19842.60	2.50	39564.40	49762.50	39564.40	1.994
2.30	2.80	ø8/10	2	2	1(TG)	SLV	0.50	0.35	11820.40	2.50	30713.30	48254.40	30713.30	0.40	0.45	0.00	2.50	39564.40	49728.40	39564.40	2.598
2.80	3.52	ø8/10	2	2	9	SLU	0.50	0.35	884.02	2.50	30713.30	49264.50	30713.30	0.40	0.45	3889.48	2.50	39564.40	50769.50	39564.40	10.172
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	48425.70	30713.30	0.40	0.45	10770.10	2.50	39564.40	49905.00	39564.40	3.674
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.50	0.35	8294.91	2.50	30713.30	48425.70	30713.30	0.40	0.45	0.00	2.50	39564.40	49905.00	39564.40	3.703
3.52	6.38	ø8/15	2	2	9	SLU	0.50	0.35	884.02	2.50	20475.50	49201.80	20475.50	0.40	0.45	3889.48	2.50	26376.30	50704.80	26376.30	6.781
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	20475.50	48425.70	20475.50	0.40	0.45	10770.10	2.50	26376.30	49905.00	26376.30	2.449
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.50	0.35	8294.91	2.50	20475.50	48425.70	20475.50	0.40	0.45	0.00	2.50	26376.30	49905.00	26376.30	2.468
6.38	7.10	ø8/10	2	2	9	SLU	0.50	0.35	884.02	2.50	30713.30	48951.00	30713.30	0.40	0.45	3889.48	2.50	39564.40	50446.40	39564.40	10.172
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	48425.70	30713.30	0.40	0.45	10770.10	2.50	39564.40	49905.00	39564.40	3.674
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.50	0.35	8294.91	2.50	30713.30	48425.70	30713.30	0.40	0.45	0.00	2.50	39564.40	49905.00	39564.40	3.703

Dettagli costruttivi per la duttilità

- α_e=0.30319 ω_{wd}=0.12377 $\mu\Phi_d$=14.1813 ν_d=0 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483
  0.03753 >= -0.035 [7.4.29]
- α_e=0.30319 ω_{wd}=0.12377 $\mu\Phi_d$=22.5728 ν_d=0 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224
  0.03753 >= -0.035 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
301	N	ø10/ 6	Y+	E	2	4.02	4.02	0.50	0.29	0.20	7.85
			Z-	E	2	10.30	8.04	0.50	0.39	0.20	7.85

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
301	Y+	1	SLV	0.00	17308.80	0.00	2.15	106242.00	0.00	307330.00	---	---
	Z-	1	SLV	0.00	44353.80	0.00	2.15	142877.00	239538.00	307330.00	---	---

Pilastrata n. 2

Nodi: 2 -925 -1044 -1163 102 302

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
7	R	40.00	60.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
7	R	40.00	60.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	7	0.00	-26206.90	-16488.30		-16488.30	0.00		0.00	-26206.90	-26880.20	0.00	1.630
0.00	1	SLV	1	7	0.00	-26206.90	-16488.30		-16488.30	0.00		0.00	-26206.90	-26880.20	0.00	1.630
0.93	1(e)	SLV	1	7	93.33	-58542.50	605.11		1170.85	0.00		0.00	-271477.00	30049.50	0.00	4.637
0.93	9	SLU	2	7	0.00	-58898.60	0.00		0.00	3639.73		3639.73	-58898.60	0.00	19712.40	5.416
1.62	1	SLV	2	7	68.33	-48244.70	1746.93		1746.93	0.00		0.00	-271477.00	29102.60	0.00	5.627
1.62	1	SLV	3	7	0.00	-44138.10	1529.62		1529.62	0.00		0.00	-271477.00	28719.50	0.00	6.151
2.30	1	SLV	3	7	68.33	-27820.20	-7612.50		-7612.50	0.00		0.00	-27820.20	-27092.70	0.00	3.559
2.30	1	SLV	4	7	0.00	-35099.30	-7786.03		-7786.03	0.00		0.00	-35099.30	-27868.20	0.00	3.579
2.50	7(α)	SLV	4	7	20.00	-38155.90	-8547.64	2.46	-21004.60	0.00	6.32	0.00	-38155.90	-28157.00	0.00	1.341
2.80	1(α)	SLV	5	7	0.00	-19768.20	19175.50	1.30	24928.10	0.00	9.95	0.00	-19768.20	26009.10	0.00	1.043
2.80	1(α)	SLV	5	7	0.00	-19768.20	19175.50	1.30	24928.10	0.00	9.95	0.00	-19768.20	26009.10	0.00	1.043
7.10	1	SLV	5	7	430.00	-17188.20	12014.20		12014.20	0.00		0.00	-17188.20	25647.50	0.00	2.135

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	7	0.00	-47029.60	0.00	-10926.60	16.59	16.59	58.78	756.43
0.00	12	SLE Q	1	7	0.00	-42654.70	0.00	-10047.40	16.59	16.59	54.01	694.07
0.00	10	SLE R	1	7	0.00	-47029.60	0.00	-10926.60	16.59	16.59	58.78	756.43
0.00	12	SLE Q	1	7	0.00	-42654.70	0.00	-10047.40	16.59	16.59	54.01	694.07
0.93	10	SLE R	1	7	93.33	-46469.60	2712.19	0.00	0.00	33.18	29.45	388.48
0.93	12	SLE Q	1	7	93.33	-42094.70	2488.10	0.00	0.00	33.18	26.84	353.61
0.93	10	SLE R	2	7	0.00	-41772.90	2591.84	0.00	0.00	33.18	27.24	357.61
0.93	12	SLE Q	2	7	0.00	-37500.80	2374.59	0.00	0.00	33.18	24.69	323.64
1.62	10	SLE R	2	7	68.33	-41362.90	1446.54	0.00	0.00	33.18	21.43	293.02
1.62	12	SLE Q	2	7	68.33	-37090.80	1323.54	0.00	0.00	33.18	19.35	264.19
1.62	10	SLE R	3	7	0.00	-40733.30	1197.23	0.00	0.00	33.18	19.98	276.16
1.62	12	SLE Q	3	7	0.00	-36184.10	1095.51	0.00	0.00	33.18	17.91	247.06
2.30	10	SLE R	3	7	68.33	-40323.30	0.00	-4109.16	0.00	33.18	27.28	375.10
2.30	12	SLE Q	3	7	68.33	-35774.10	0.00	-3510.44	0.00	33.18	23.76	327.31
2.30	10	SLE R	4	7	0.00	-43343.80	0.00	-4171.89	0.00	33.18	28.52	393.27
2.30	12	SLE Q	4	7	0.00	-38276.40	0.00	-3566.10	0.00	33.18	24.81	342.52
2.50	10	SLE R	4	7	20.00	-43223.80	0.00	-8379.19	10.30	22.87	45.66	599.25
2.50	12	SLE Q	4	7	20.00	-38156.40	0.00	-7163.89	10.30	22.87	39.18	515.84
2.80	10	SLE R	5	7	0.00	-22789.60	-1123.76	0.00	0.00	33.18	13.42	179.26
2.80	12	SLE Q	5	7	0.00	-20449.10	-1023.91	0.00	0.00	33.18	12.12	161.70
2.80	10	SLE R	5	7	0.00	-22789.60	-1123.76	0.00	0.00	33.18	13.42	179.26

2.80	12	SLE Q	5	7	0.00	-20449.10	-1023.91	0.00	0.00	33.18	12.12	161.70
7.10	10	SLE R	5	7	430.00	-20209.60	0.00	2540.14	4.02	29.15	15.32	208.44
7.10	12	SLE Q	5	7	430.00	-17869.10	0.00	2305.72	10.30	22.87	13.77	187.04

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	7	0.00	-42654.70	-10047.40	0.00	43.00	98.69	0.50	18.22	143.57	10.30	325.57	439.87	0.13	0.03
0.00	11	SLE F	1	7	0.00	-43606.50	-10241.40	0.00	43.00	98.69	0.50	18.22	143.41	10.30	324.63	445.90	0.13	0.03
0.00	12	SLE Q	1	7	0.00	-42654.70	-10047.40	0.00	43.00	98.69	0.50	18.22	143.57	10.30	325.57	439.87	0.13	0.03
0.00	11	SLE F	1	7	0.00	-43606.50	-10241.40	0.00	43.00	98.69	0.50	18.22	143.41	10.30	324.63	445.90	0.13	0.03
2.50	12	SLE Q	4	7	20.00	-38156.40	-7163.89	0.00	43.00	98.69	0.50	18.22	129.13	10.30	243.88	185.87	0.05	0.01
2.50	11	SLE F	4	7	20.00	-39240.90	-7445.66	0.00	43.00	98.69	0.50	18.22	129.87	10.30	248.09	199.06	0.06	0.01

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.60	ø8/ 5	2	2	9	SLU	0.60	0.35	292.84	2.50	61426.60	65112.40	61426.60	0.40	0.55	16674.00	2.03	78650.10	78650.10	78650.10	4.717
0.00	0.60	ø8/ 5	2	2	1(TG)	SLV	0.60	0.35	11534.20	2.50	61426.60	61785.80	61426.60	0.40	0.55	18920.20	1.97	76112.80	76112.80	76112.80	4.023
0.00	0.60	ø8/ 5	2	2	1(TG)	SLV	0.60	0.35	23934.40	2.50	61426.60	61785.80	61426.60	0.40	0.55	0.00	1.97	76112.80	76112.80	76112.80	2.566
0.60	1.90	ø8/10	2	2	9	SLU	0.60	0.35	2458.09	2.50	30713.30	65049.40	30713.30	0.40	0.55	16674.00	2.50	48415.50	68361.20	48415.50	2.904
0.60	1.90	ø8/10	2	2	1(TG)	SLV	0.60	0.35	11534.20	2.50	30713.30	61785.80	30713.30	0.40	0.55	18920.20	2.50	48415.50	64931.50	48415.50	2.559
0.60	1.90	ø8/10	2	2	1(TG)	SLV	0.60	0.35	23934.40	2.50	30713.30	61785.80	30713.30	0.40	0.55	0.00	2.50	48415.50	64931.50	48415.50	1.283
1.90	2.50	ø8/10	2	2	9	SLU	0.60	0.35	3563.79	2.50	30713.30	64472.00	30713.30	0.40	0.55	30343.60	2.50	48415.50	67754.40	48415.50	1.596
1.90	2.50	ø8/10	2	2	1	SLV	0.60	0.35	3113.85	2.50	30713.30	62140.20	30713.30	0.40	0.55	40385.80	2.50	48415.50	65303.90	48415.50	1.199
1.90	2.50	ø8/10	2	2	1(TG)	SLV	0.60	0.35	23934.40	2.50	30713.30	61785.80	30713.30	0.40	0.55	0.00	2.50	48415.50	64931.50	48415.50	1.283
2.80	3.52	ø8/10	2	2	9	SLU	0.60	0.35	576.16	2.50	30713.30	60528.30	30713.30	0.40	0.55	360.43	2.50	48415.50	63610.00	48415.50	53.307
2.80	3.52	ø8/10	2	2	3(TG)	SLV	0.60	0.35	6004.20	2.50	30713.30	58695.00	30713.30	0.40	0.55	9433.56	2.50	48415.50	61683.30	48415.50	5.115
3.52	6.38	ø8/15	2	2	9	SLU	0.60	0.35	576.16	2.50	20475.50	60453.10	20475.50	0.40	0.55	360.43	2.50	32277.00	63530.90	32277.00	35.538
3.52	6.38	ø8/15	2	2	3(TG)	SLV	0.60	0.35	6004.20	2.50	20475.50	58695.00	20475.50	0.40	0.55	9433.56	2.50	32277.00	61683.30	32277.00	3.410
6.38	7.10	ø8/10	2	2	9	SLU	0.60	0.35	576.16	2.50	30713.30	60152.10	30713.30	0.40	0.55	360.43	2.50	48415.50	63214.60	48415.50	53.307
6.38	7.10	ø8/10	2	2	3(TG)	SLV	0.60	0.35	6004.20	2.50	30713.30	58695.00	30713.30	0.40	0.55	9433.56	2.50	48415.50	61683.30	48415.50	5.115

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.59042 ω_{wd}=0.34052 $\mu\Phi_d$=14.1813 ν_d=0.14151 $E_{sy,d}$=0.0018995 b_c/b_0=1.14943 $\mu\Phi_c$=25.4664
  0.20105 >= 0.09645 [7.4.29]
- CC=1 α_e=0.59042 ω_{wd}=0.34052 $\mu\Phi_d$=22.5728 ν_d=0.14151 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=23.5637
  0.20105 >= 0.19112 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
102	N	ø14/ 5	Y+	I	2	6.03	4.02	0.60	0.28	0.20	18.47
			Y-	I	2	4.02	6.03	0.50	0.28	0.20	18.47
			Z-	E	2	29.15	16.59	0.60	0.48	0.20	18.47
302	N	ø16/ 4	Y+	E	2	6.03	6.03	0.60	0.28	0.20	28.15
			Z+	I	2	15.46	8.04	0.50	0.48	0.20	28.15
			Z-	I	2	15.46	8.04	0.50	0.48	0.20	28.15

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
102	Y+	1	SLV	934.32	42337.70	4.73	8.38	147834.00	147745.00	602366.00	---	---
		1	SLV	934.32	42337.70	5.06	9.90	147330.00	140567.00	602366.00	---	---
	Y-	1	SLV	934.32	42337.70	4.73	8.38	123195.00	273162.00	722839.00	---	---
		1	SLV	934.32	42337.70	5.06	9.90	122775.00	262825.00	722839.00	---	---
	Z-	1	SLV	6715.68	118773.00	4.73	8.38	199632.00	630581.00	602366.00	66615.00	72284.00
		1	SLV	6715.68	118773.00	5.06	9.90	198759.00	611243.00	602366.00	65746.00	72284.00
302	Y+	1	SLV	0.00	25963.20	0.00	4.12	122215.00	39180.00	917892.00	---	---
	Z+	1	SLV	0.00	101148.00	0.00	4.12	218895.00	1167300.00	1101470.00	101148.00	110147.00
	Z-	1	SLV	0.00	101148.00	0.00	4.12	218895.00	1167300.00	1101470.00	101148.00	110147.00

Pilastrata n. 3

Nodi: 3 103 303

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
7	R	40.00	60.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	7	0.00	-62797.00	1918.76		1918.76	0.00		0.00	-271477.00	48891.10	0.00	4.323
0.00	5	SLV	1	7	0.00	-62797.00	1918.76		1918.76	0.00		0.00	-271477.00	48891.10	0.00	4.323
2.50	5(α)	SLV	1	7	250.00	-59207.60	-6212.81	4.19	-26024.30	0.00	8.57	0.00	-59207.60	-48632.90	0.00	1.869
2.80	3(α)	SLV	2	7	0.00	-20632.50	-10500.50	4.31	-45235.00	0.00	31.07	0.00	-20632.50	-45719.20	0.00	1.011
2.80	3(α)	SLV	2	7	0.00	-20632.50	-10500.50	4.31	-45235.00	0.00	31.07	0.00	-20632.50	-45719.20	0.00	1.011
7.10	1	SLV	2	7	430.00	-17828.20	-12390.20		-12390.20	0.00		0.00	-17828.20	-45499.90	0.00	3.672

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	7	0.00	-70066.70	851.75	0.00	0.00	72.38	23.52	338.75
0.00	12	SLE Q	1	7	0.00	-61752.30	819.13	0.00	0.00	72.38	21.01	301.54

0.00	10	SLE R	1	7	0.00	-70066.70	851.75	0.00	0.00	72.38	23.52	338.75
0.00	12	SLE Q	1	7	0.00	-61752.30	819.13	0.00	0.00	72.38	21.01	301.54
2.50	10	SLE R	1	7	250.00	-68566.70	0.00	-2977.75	0.00	72.38	27.71	393.56
2.50	12	SLE Q	1	7	250.00	-60252.30	0.00	-2485.32	0.00	72.38	24.00	341.49
2.80	10	SLE R	2	7	0.00	-23377.30	0.00	4091.32	18.10	54.29	18.46	243.13
2.80	12	SLE Q	2	7	0.00	-21047.40	0.00	3546.47	18.10	54.29	16.15	213.37
2.80	10	SLE R	2	7	0.00	-23377.30	0.00	4091.32	18.10	54.29	18.46	243.13
2.80	12	SLE Q	2	7	0.00	-21047.40	0.00	3546.47	18.10	54.29	16.15	213.37
7.10	10	SLE R	2	7	430.00	-20797.30	0.00	-2833.53	18.10	54.29	13.76	184.68
7.10	12	SLE Q	2	7	430.00	-18467.40	0.00	-2458.83	18.10	54.29	12.04	161.85

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
7.10	12	SLE Q	2	7	430.00	-18467.40	-2458.83	0.00	43.00	96.67	0.50	24.00	147.04	18.10	460.20	4.77	0.00	0.00
7.10	11	SLE F	2	7	430.00	-18903.70	-2521.89	0.00	43.00	96.67	0.50	24.00	147.57	18.10	464.23	5.11	0.00	0.00

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.60	ø8/ 5	2	2	9	SLU	0.60	0.35	604.65	2.50	61426.60	69592.30	61426.60	0.40	0.55	1697.69	2.12	81943.10	81943.10	81943.10	48.267
0.00	0.60	ø8/ 5	2	2	5(TG)	SLV	0.60	0.35	21053.50	2.50	61426.60	64473.20	61426.60	0.40	0.55	30731.50	2.02	78169.00	78169.00	78169.00	2.544
0.00	0.60	ø8/ 5	2	2	5(TG)	SLV	0.60	0.35	42156.10	2.50	61426.60	64473.20	61426.60	0.40	0.55	0.00	2.02	78169.00	78169.00	78169.00	1.457
0.60	1.90	ø8/15	2	2	9	SLU	0.60	0.35	604.65	2.50	20475.50	69529.30	20475.50	0.40	0.55	1697.69	2.50	32277.00	73069.30	32277.00	19.012
0.60	1.90	ø8/15	2	2	5(TG)	SND	0.60	0.35	1250.68	2.50	20475.50	64825.80	20475.50								16.372
0.60	1.90	ø8/15	2	2	5(TG)	SLV								0.40	0.55	30731.50	2.50	32277.00	67755.70	32277.00	1.050
0.60	1.90	ø8/15	2	2	1(TG)	SND	0.60	0.35	1441.73	2.50	20475.50	64788.70	20475.50								14.202
0.60	1.90	ø8/15	2	2	1(TG)	SLV								0.40	0.55	30643.40	2.50	32277.00	67478.30	32277.00	1.053
1.90	2.50	ø8/10	2	2	9	SLU	0.60	0.35	604.65	2.50	30713.30	69392.80	30713.30	0.40	0.55	1697.69	2.50	48415.50	72925.80	48415.50	28.518
1.90	2.50	ø8/10	2	2	5(TG)	SLV	0.60	0.35	21053.50	2.50	30713.30	64473.20	30713.30	0.40	0.55	30731.50	2.50	48415.50	67755.70	48415.50	1.459
2.80	3.52	ø8/10	2	2	9	SLU	0.60	0.35	450.11	2.50	30713.30	60632.20	30713.30	0.40	0.55	2292.10	2.50	48415.50	63719.10	48415.50	21.123
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.60	0.35	11296.40	2.50	30713.30	58793.80	30713.30	0.40	0.55	16664.40	2.50	48415.50	61787.10	48415.50	2.719
2.80	3.52	ø8/10	2	2	3(TG)	SLV	0.60	0.35	22513.70	2.50	30713.30	58763.40	30713.30	0.40	0.55	0.00	2.50	48415.50	61755.20	48415.50	1.364
3.52	6.38	ø8/15	2	2	9	SLU	0.60	0.35	450.11	2.50	20475.50	60556.90	20475.50	0.40	0.55	2292.10	2.50	32277.00	63640.00	32277.00	14.082
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.60	0.35	11296.40	2.50	20475.50	58793.80	20475.50	0.40	0.55	16664.40	2.50	32277.00	61787.10	32277.00	1.813
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.60	0.35	11296.40	2.50	20475.50	58793.80	20475.50	0.40	0.55	16664.40	2.50	32277.00	61787.10	32277.00	1.813
6.38	7.10	ø8/10	2	2	9	SLU	0.60	0.35	450.11	2.50	30713.30	60255.90	30713.30	0.40	0.55	2292.10	2.50	48415.50	63323.70	48415.50	21.123
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.60	0.35	11296.40	2.50	30713.30	58793.80	30713.30	0.40	0.55	16664.40	2.50	48415.50	61787.10	48415.50	2.719
6.38	7.10	ø8/10	2	2	3(TG)	SLV	0.60	0.35	22513.70	2.50	30713.30	58763.40	30713.30	0.40	0.55	0.00	2.50	48415.50	61755.20	48415.50	1.364

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.66557 ω_{wd}=0.38383 $\mu\Phi_d$=14.1813 ν_d=0.15036 $E_{sy,d}$=0.0018995 b_c/b_0=1.14943 $\mu\Phi_c$=29.4932
  0.25546 >= 0.10466 [7.4.29]
- CC=5 α_e=0.66557 ω_{wd}=0.38383 $\mu\Phi_d$=22.5728 ν_d=0.15036 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=27.2897
  0.25546 >= 0.20526 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
103	S	ø10/10	Y+	I	2	6.03	6.03	0.60	0.29	0.20	4.71
			Z+	I	2	34.56	28.02	0.60	0.49	0.20	4.71
			Y-	I	2	6.03	6.03	0.60	0.29	0.20	4.71
			Z-	I	2	34.56	28.02	0.60	0.49	0.20	4.71
303	N	ø16/ 4	Y+	E	2	6.03	6.03	0.60	0.27	0.20	28.15
			Z+	I	2	15.46	8.04	0.50	0.47	0.20	28.15
			Z-	I	2	15.46	8.04	0.50	0.47	0.20	28.15

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
303	Y+	1	SLV	0.00	25963.20	0.00	4.27	120456.00	44369.80	917891.00	---	---
	Z+	1	SLV	0.00	101148.00	0.00	4.27	217063.00	1189410.00	1101470.00	101148.00	110147.00
	Z-	1	SLV	0.00	101148.00	0.00	4.27	217063.00	1189410.00	1101470.00	101148.00	110147.00

Pilastrata n. 4

Nodi: 4 -926 -1045 -1164 104 204 304

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	40.00	50.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
1	R	40.00	50.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	1	0.00	-8380.37	4275.79		4275.79	0.00		0.00	-8380.37	21846.80	0.00	5.109
0.00	9	SLU	1	1	0.00	-8380.37	4275.79		4275.79	0.00		0.00	-8380.37	21846.80	0.00	5.109
0.93	9	SLU	1	1	93.33	-7773.70	5748.63		5748.63	0.00		0.00	-7773.70	21772.30	0.00	3.787
0.93	9	SLU	2	1	0.00	-12704.20	5963.07		5963.07	0.00		0.00	-12704.20	22374.80	0.00	3.752
1.62	9	SLU	2	1	68.33	-12260.10	6419.89		6419.89	0.00		0.00	-12260.10	22320.70	0.00	3.477
1.62	1	SLV	3	1	0.00	-10513.90	6258.20		6258.20	0.00		0.00	-10513.90	22107.30	0.00	3.533
2.30	1	SLV	3	1	68.33	-10172.20	8621.01		8621.01	0.00		0.00	-10172.20	22065.70	0.00	2.560
2.30	1	SLV	4	1	0.00	-18681.40	8215.33		8215.33	0.00		0.00	-18681.40	23041.00	0.00	2.805
2.50	1(α)	SLV	4	1	20.00	-18581.40	10610.80	1.30	13794.00	0.00	1.00	0.00	-18581.40	23033.40	0.00	1.670
2.80	1(α)	SLV	5	1	0.00	-10546.50	-15699.70	1.30	-20409.60	0.00	1.00	0.00	-10546.50	-22111.20	0.00	1.083

2.80	1(α)	SLV	5	1	0.00	-10546.50	-15699.70	1.30	-20409.60	0.00	1.00	0.00	-10546.50	-22111.20	0.00	1.083
6.10	1(α)	SLV	5	1	330.00	-8896.48	5902.75	1.00	5902.75	0.00	3.70	0.00	-8896.48	21910.10	0.00	3.712
6.35	1(α)	SLV	6	1	0.00	-7437.76	7463.82	1.00	7463.82	0.00	2.19	0.00	-7437.76	21730.60	0.00	2.911
6.35	1(α)	SLV	6	1	0.00	-7437.76	7463.82	1.00	7463.82	0.00	2.19	0.00	-7437.76	21730.60	0.00	2.911
7.10	1	SLV	6	1	75.00	-7062.76	11904.70		11904.70	0.00		0.00	-7062.76	21683.90	0.00	1.821

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-5999.56	0.00	3147.46	18.85	18.85	21.01	372.17
0.00	12	SLE Q	1	1	0.00	-5403.51	0.00	2896.05	18.85	18.85	19.31	345.41
0.00	10	SLE R	1	1	0.00	-5999.56	0.00	3147.46	18.85	18.85	21.01	372.17
0.00	12	SLE Q	1	1	0.00	-5403.51	0.00	2896.05	18.85	18.85	19.31	345.41
0.93	10	SLE R	1	1	93.33	-5532.90	0.00	4147.37	18.85	18.85	27.26	551.66
0.93	12	SLE Q	1	1	93.33	-4936.85	0.00	3728.62	18.85	18.85	24.50	496.94
0.93	10	SLE R	2	1	0.00	-8992.94	0.00	4284.15	18.85	18.85	28.73	485.73
0.93	12	SLE Q	2	1	0.00	-8031.80	0.00	3832.85	18.85	18.85	25.70	434.91
1.62	10	SLE R	2	1	68.33	-8651.27	0.00	4530.46	18.85	18.85	30.24	535.30
1.62	12	SLE Q	2	1	68.33	-7690.13	0.00	3965.92	18.85	18.85	26.49	465.64
1.62	10	SLE R	3	1	0.00	-13423.50	0.00	4558.47	18.85	18.85	31.13	423.38
1.62	12	SLE Q	3	1	0.00	-11942.90	0.00	3975.61	18.85	18.85	27.18	363.75
2.30	10	SLE R	3	1	68.33	-13081.90	0.00	5377.00	18.85	18.85	36.33	565.22
2.30	12	SLE Q	3	1	68.33	-11601.20	0.00	4599.84	18.85	18.85	31.14	473.54
2.30	10	SLE R	4	1	0.00	-23760.10	0.00	5074.01	18.85	18.85	35.72	438.54
2.30	12	SLE Q	4	1	0.00	-21085.30	0.00	4335.03	18.85	18.85	30.62	377.70
2.50	10	SLE R	4	1	20.00	-23660.10	0.00	6233.94	18.85	18.85	43.22	516.88
2.50	12	SLE Q	4	1	20.00	-20985.30	0.00	5290.50	18.85	18.85	36.79	442.34
2.80	10	SLE R	5	1	0.00	-13810.50	0.00	-7140.26	18.85	18.85	47.69	839.22
2.80	12	SLE Q	5	1	0.00	-12807.50	0.00	-6232.17	18.85	18.85	41.75	713.48
2.80	10	SLE R	5	1	0.00	-13810.50	0.00	-7140.26	18.85	18.85	47.69	839.22
2.80	12	SLE Q	5	1	0.00	-12807.50	0.00	-6232.17	18.85	18.85	41.75	713.48
6.10	10	SLE R	5	1	330.00	-12160.50	0.00	3894.03	18.85	18.85	26.68	345.60
6.10	12	SLE Q	5	1	330.00	-11157.50	0.00	3420.87	18.85	18.85	23.50	292.78
6.35	10	SLE R	6	1	0.00	-10787.20	0.00	4710.53	18.85	18.85	31.73	511.70
6.35	12	SLE Q	6	1	0.00	-9787.43	0.00	4136.25	18.85	18.85	27.91	441.55
6.35	10	SLE R	6	1	0.00	-10787.20	0.00	4710.53	18.85	18.85	31.73	511.70
6.35	12	SLE Q	6	1	0.00	-9787.43	0.00	4136.25	18.85	18.85	27.91	441.55
7.10	10	SLE R	6	1	75.00	-10412.20	0.00	7199.23	18.85	18.85	47.47	936.46
7.10	12	SLE Q	6	1	75.00	-9412.43	0.00	6314.65	18.85	18.85	41.69	814.11

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-5403.51	2896.05	0.00	43.00	98.00	0.50	20.00	148.84	12.57	394.82	345.41	0.10	0.03
0.00	11	SLE F	1	1	0.00	-5533.49	2947.53	0.00	43.00	98.00	0.50	20.00	148.77	12.57	394.42	350.68	0.10	0.03
0.00	12	SLE Q	1	1	0.00	-5403.51	2896.05	0.00	43.00	98.00	0.50	20.00	148.84	12.57	394.82	345.41	0.10	0.03
0.00	11	SLE F	1	1	0.00	-5533.49	2947.53	0.00	43.00	98.00	0.50	20.00	148.77	12.57	394.42	350.68	0.10	0.03
0.93	12	SLE Q	1	1	93.33	-4936.85	3728.62	0.00	43.00	98.00	0.50	20.00	151.78	12.57	413.30	496.94	0.14	0.04
0.93	11	SLE F	1	1	93.33	-5066.83	3820.31	0.00	43.00	98.00	0.50	20.00	151.77	12.57	413.23	508.93	0.15	0.04
0.93	12	SLE Q	2	1	0.00	-8031.80	3832.85	0.00	43.00	98.00	0.50	20.00	147.53	12.57	386.60	434.91	0.13	0.03
0.93	11	SLE F	2	1	0.00	-8242.14	3932.68	0.00	43.00	98.00	0.50	20.00	147.53	12.57	386.59	446.21	0.13	0.03
1.62	12	SLE Q	2	1	68.33	-7690.13	3965.92	0.00	43.00	98.00	0.50	20.00	148.43	12.57	392.23	465.64	0.14	0.03
1.62	11	SLE F	2	1	68.33	-7900.47	4095.29	0.00	43.00	98.00	0.50	20.00	148.48	12.57	392.58	481.85	0.14	0.04
1.62	12	SLE Q	3	1	0.00	-11942.90	3975.61	0.00	43.00	98.00	0.50	20.00	141.97	12.57	351.70	363.75	0.11	0.03
1.62	11	SLE F	3	1	0.00	-12267.30	4109.82	0.00	43.00	98.00	0.50	20.00	142.10	12.57	352.48	377.86	0.11	0.03
2.30	12	SLE Q	3	1	68.33	-11601.20	4599.84	0.00	43.00	98.00	0.50	20.00	145.00	12.57	370.70	473.54	0.14	0.03
2.30	11	SLE F	3	1	68.33	-11925.70	4782.55	0.00	43.00	98.00	0.50	20.00	145.17	12.57	371.79	495.66	0.14	0.04
2.30	12	SLE Q	4	1	0.00	-21085.30	4335.03	0.00	43.00	98.00	0.50	20.00	128.77	12.57	268.74	228.60	0.07	0.01
2.30	11	SLE F	4	1	0.00	-21671.70	4508.97	0.00	43.00	98.00	0.50	20.00	129.21	12.57	271.50	242.52	0.07	0.02
2.50	12	SLE Q	4	1	20.00	-20985.30	5290.50	0.00	43.00	98.00	0.50	20.00	135.42	12.57	310.52	371.66	0.11	0.02
2.50	11	SLE F	4	1	20.00	-21571.70	5513.87	0.00	43.00	98.00	0.50	20.00	135.81	12.57	312.96	393.61	0.11	0.03
2.80	12	SLE Q	5	1	0.00	-12807.50	-6232.17	0.00	43.00	98.00	0.50	20.00	147.76	12.57	388.07	713.48	0.21	0.05
2.80	11	SLE F	5	1	0.00	-12998.00	-6431.45	0.00	43.00	98.00	0.50	20.00	147.96	12.57	389.30	741.80	0.22	0.05
2.80	12	SLE Q	5	1	0.00	-12807.50	-6232.17	0.00	43.00	98.00	0.50	20.00	147.76	12.57	388.07	713.48	0.21	0.05
2.80	11	SLE F	5	1	0.00	-12998.00	-6431.45	0.00	43.00	98.00	0.50	20.00	147.96	12.57	389.30	741.80	0.22	0.05
6.10	12	SLE Q	5	1	330.00	-11157.50	3420.87	0.00	43.00	98.00	0.50	20.00	140.29	12.57	341.10	292.78	0.09	0.02
6.10	11	SLE F	5	1	330.00	-11348.00	3506.44	0.00	43.00	98.00	0.50	20.00	140.46	12.57	342.15	302.11	0.09	0.02
6.35	12	SLE Q	6	1	0.00	-9787.43	4136.25	0.00	43.00	98.00	0.50	20.00	145.94	12.57	376.61	441.55	0.13	0.03
6.35	11	SLE F	6	1	0.00	-9977.32	4242.77	0.00	43.00	98.00	0.50	20.00	146.03	12.57	377.16	454.45	0.13	0.03
6.35	12	SLE Q	6	1	0.00	-9787.43	4136.25	0.00	43.00	98.00	0.50	20.00	145.94	12.57	376.61	441.55	0.13	0.03
6.35	11	SLE F	6	1	0.00	-9977.32	4242.77	0.00	43.00	98.00	0.50	20.00	146.03	12.57	377.16	454.45	0.13	0.03
7.10	12	SLE Q	6	1	75.00	-9412.43	6314.65	0.00	43.00	98.00	0.50	20.00	150.90	12.57	407.76	814.11	0.24	0.06
7.10	11	SLE F	6	1	75.00	-9602.32	6485.27	0.00	43.00	98.00	0.50	20.00	150.95	12.57	408.09	837.79	0.24	0.06

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	Vsdu,y <daN>	$ctg\theta_{,y}$	VRsd,y <daN>	VRcd,y <daN>	Vrd,y <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	Vsdu,z <daN>	$ctg\theta_{,z}$	VRsd,z <daN>	VRcd,z <daN>	Vrd,z <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.50	0.35	98.22	2.50	30713.30	47979.40	30713.30	0.40	0.45	1578.05	2.50	39564.40	49445.00	39564.40	25.072
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50000.20	30713.30	0.40	0.45	28281.10	2.50	39564.40	51527.50	39564.40	1.399
0.00	0.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	21532.50	2.50	30713.30	49979.40	30713.30	0.40	0.45	0.00	2.50	39564.40	51506.10	39564.40	1.426
0.50	2.00	ø8/15	2	2	9	SLU	0.50	0.35	129.98	2.50	20475.50	49385.90	20475.50	0.40	0.45	1871.33	2.50	26376.30	50894.50	26376.30	14.095
0.50	2.00	ø8/15	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	20475.50	49353.10	20475.50								---
0.50	2.00	ø8/15	2	2	1(TG)	SND								0.40	0.45	19743.30	2.50	26376.30	51887.20	26376.30	1.336
0.50	2.00	ø8/15	2	2	3(TG)	SLV	0.50	0.35	11185.00	2.50	20475.50	49979.40	20475.50	0.40	0.45	13552.40	2.50	26376.30	51506.10	26376.30	1.831
2.00	2.50	ø8/10	2	2	9	SLU	0.50	0.35	2194.25	2.50	30713.30	51394.50	30713.30	0.40	0.45	8603.38	2.50	39564.40	52964.50	39564.40	4.599
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50000.20	30713.30	0.40	0.45	28281.10	2.50	39564.40	51527.50	39564.40	1.399
2.00	2.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	21532.50	2.50	30713.30	49979.40	30713.30	0.40	0.45	0.00	2.50	39564.40	51506.10	39564.40	1.426
2.80	3.35	ø8/10	2	2	9	SLU	0.50	0.35	784.97	2.50	30713.30	49469.70	30713.30	0.40	0.45	4773.12	2.50	39564.40	50980.90	39564.40	8.289
2.80	3.35	ø8/10	2	2	1	SLV	0.50	0.35	1334.59	2.50	30713.30	48879.70	30713.30	0.40	0.45	6529.28	2.50	39564.40	50372.80	39564.40	6.060
2.80	3.35	ø8/10	2	2	5	SLV	0.50	0.35	1362.31	2.50	30713.30	48705.80	30713.30	0.40	0.45	4376.77	2.50	39564.40	50193.70	39564.40	9.040

3.35	5.55	ø8/15	2	2	9	SLU	0.50	0.35	784.97	2.50	20475.50	49421.60	20475.50	0.40	0.45	4773.12	2.50	26376.30	50931.30	26376.30	5.526
3.35	5.55	ø8/15	2	2	1	SLV	0.50	0.35	1334.59	2.50	20475.50	48842.70	20475.50	0.40	0.45	6529.28	2.50	26376.30	50334.70	26376.30	4.040
3.35	5.55	ø8/15	2	2	5	SLV	0.50	0.35	1362.31	2.50	20475.50	48668.80	20475.50	0.40	0.45	4376.77	2.50	26376.30	50155.50	26376.30	6.026
5.55	6.10	ø8/10	2	2	9	SLU	0.50	0.35	784.97	2.50	30713.30	49229.10	30713.30	0.40	0.45	4773.12	2.50	39564.40	50732.90	39564.40	8.289
5.55	6.10	ø8/10	2	2	1	SLV	0.50	0.35	1334.59	2.50	30713.30	48694.60	30713.30	0.40	0.45	6529.28	2.50	39564.40	50182.10	39564.40	6.060
5.55	6.10	ø8/10	2	2	5	SLV	0.50	0.35	1362.31	2.50	30713.30	48520.70	30713.30	0.40	0.45	4376.77	2.50	39564.40	50002.90	39564.40	9.040
6.35	7.10	ø8/15	2	2	9	SLU	0.50	0.35	4052.62	2.50	20475.50	48918.20	20475.50	0.40	0.45	4737.27	2.50	26376.30	50412.50	26376.30	5.052
6.35	7.10	ø8/15	2	2	1(TG)	SND	0.50	0.35	3389.00	2.50	20475.50	48826.20	20475.50	0.40	0.45	9249.58	2.50	26376.30	50317.80	26376.30	2.852

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=14.1813 ν_d=0.01833 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=106.87
  0.09727 >= -0.01745 [7.4.29]
- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=22.5728 ν_d=0.01833 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=101.932
  0.09727 >= -0.00571 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
104	N	ø12/ 5	Z+	E	2	15.71	16.59	0.60	0.39	0.20	13.57
204	N	ø8/ 8	Y+	E	2	4.02	4.02	0.50	0.29	0.15	3.02
304	N	ø10/ 6	Y+	E	2	4.02	4.02	0.50	0.29	0.20	7.85
			Z+	E	2	10.30	8.04	0.50	0.39	0.20	7.85

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
104	Z+	1	SLV	6529.28	61083.30	3.03	5.34	163473.00	228771.00	442555.00	---	---
		1	SLV	6529.28	61083.30	4.33	6.72	160733.00	189846.00	442555.00	---	---
204	Y+	1	SLV	3114.52	14194.30	2.14	2.56	104938.00	0.00	157353.00	---	---
		1	SLV	3114.52	14194.30	3.49	3.86	103150.00	0.00	157353.00	---	---
304	Y+	1	SLV	0.00	17308.80	0.00	2.03	106242.00	0.00	307330.00	---	---
	Z+	1	SLV	0.00	44353.80	0.00	2.03	142877.00	239538.00	307330.00	---	---

Pilastrata n. 5

Nodi: 5 -939 -1058 -1177 105 205 305

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	40.00	50.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
1	R	40.00	50.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	1	0.00	-11746.60	-8737.08		-8737.08	0.00		0.00	-11746.60	-22257.80	0.00	2.548
0.00	9	SLU	1	1	0.00	-11746.60	-8737.08		-8737.08	0.00		0.00	-11746.60	-22257.80	0.00	2.548
0.93	9	SLU	1	1	93.33	-11139.90	-8459.29		-8459.29	0.00		0.00	-11139.90	-22183.80	0.00	2.622
0.93	9	SLU	2	1	0.00	-16377.60	-8109.66		-8109.66	0.00		0.00	-16377.60	-22812.50	0.00	2.813
1.62	9	SLU	2	1	68.33	-15933.40	-6513.77		-6513.77	0.00		0.00	-15933.40	-22762.10	0.00	3.494
1.62	9	SLU	3	1	0.00	-23101.20	-6026.29		-6026.29	0.00		0.00	-23101.20	-23372.10	0.00	3.878
2.30	1	SLV	3	1	68.33	-13018.10	-5961.57		-5961.57	0.00		0.00	-13018.10	-22413.10	0.00	3.760
2.30	1	SLV	4	1	0.00	-22574.30	-5385.29		-5385.29	0.00		0.00	-22574.30	-23332.60	0.00	4.333
2.50	1(α)	SLV	4	1	20.00	-22474.30	-6560.68	1.30	-8528.88	0.00	1.00	0.00	-22474.30	-23325.00	0.00	2.735
2.80	1(α)	SLV	5	1	0.00	-19457.80	15748.00	1.30	20472.40	0.00	1.00	0.00	-19457.80	23099.30	0.00	1.128
2.80	1(α)	SLV	5	1	0.00	-19457.80	15748.00	1.30	20472.40	0.00	1.00	0.00	-19457.80	23099.30	0.00	1.128
6.10	9	SLU	5	1	330.00	-30632.80	-8760.82		-8760.82	0.00		0.00	-30632.80	-23934.30	0.00	2.732
6.35	9	SLU	6	1	0.00	-26275.80	-11973.40		-11973.40	0.00		0.00	-26275.80	-23609.60	0.00	1.972
6.35	9	SLU	6	1	0.00	-26275.80	-11973.40		-11973.40	0.00		0.00	-26275.80	-23609.60	0.00	1.972
7.10	9	SLU	6	1	75.00	-25788.30	-17265.60		-17265.60	0.00		0.00	-25788.30	-23573.10	0.00	1.365

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-8348.39	0.00	-6240.04	18.85	18.85	41.01	829.38
0.00	12	SLE Q	1	1	0.00	-7512.80	0.00	-5814.95	18.85	18.85	38.17	779.89
0.00	10	SLE R	1	1	0.00	-8348.39	0.00	-6240.04	18.85	18.85	41.01	829.38
0.00	12	SLE Q	1	1	0.00	-7512.80	0.00	-5814.95	18.85	18.85	38.17	779.89
0.93	10	SLE R	1	1	93.33	-7881.72	0.00	-6026.80	18.85	18.85	39.58	805.80
0.93	12	SLE Q	1	1	93.33	-7046.14	0.00	-5525.89	18.85	18.85	36.25	743.57
0.93	10	SLE R	2	1	0.00	-11594.20	0.00	-5771.53	18.85	18.85	38.62	667.45
0.93	12	SLE Q	2	1	0.00	-10276.20	0.00	-5253.87	18.85	18.85	35.11	614.61
1.62	10	SLE R	2	1	68.33	-11252.50	0.00	-4615.75	18.85	18.85	31.19	484.64
1.62	12	SLE Q	2	1	68.33	-9934.49	0.00	-4080.55	18.85	18.85	27.57	428.77
1.62	10	SLE R	3	1	0.00	-16331.10	0.00	-4263.02	18.85	18.85	29.58	354.08
1.62	12	SLE Q	3	1	0.00	-14351.30	0.00	-3724.61	18.85	18.85	25.85	309.70
2.30	10	SLE R	3	1	68.33	-15989.40	0.00	-3300.87	18.85	18.85	23.30	287.34
2.30	12	SLE Q	3	1	68.33	-14009.60	0.00	-2693.74	18.85	18.85	19.15	238.18
2.30	10	SLE R	4	1	0.00	-27571.10	0.00	-2865.37	0.00	37.70	23.39	310.50
2.30	12	SLE Q	4	1	0.00	-24087.70	0.00	-2313.03	0.00	37.70	19.53	260.72
2.50	10	SLE R	4	1	20.00	-27471.10	0.00	-2931.32	0.00	37.70	23.69	313.73
2.50	12	SLE Q	4	1	20.00	-23987.70	0.00	-2239.40	0.00	37.70	19.16	256.20
2.80	10	SLE R	5	1	0.00	-23289.80	0.00	9768.19	18.85	18.85	65.93	1038.45
2.80	12	SLE Q	5	1	0.00	-20961.90	0.00	8347.77	18.85	18.85	56.50	861.60
2.80	10	SLE R	5	1	0.00	-23289.80	0.00	9768.19	18.85	18.85	65.93	1038.45

2.80	12	SLE Q	5	1	0.00	-20961.90	0.00	8347.77	18.85	18.85	56.50	861.60
6.10	10	SLE R	5	1	330.00	-21639.80	0.00	-6155.17	18.85	18.85	42.47	503.20
6.10	12	SLE Q	5	1	330.00	-19311.90	0.00	-5186.45	18.85	18.85	35.92	428.50
6.35	10	SLE R	6	1	0.00	-18503.00	0.00	-8458.93	18.85	18.85	56.84	940.41
6.35	12	SLE Q	6	1	0.00	-16462.90	0.00	-7129.91	18.85	18.85	48.04	771.17
6.35	10	SLE R	6	1	0.00	-18503.00	0.00	-8458.93	18.85	18.85	56.84	940.41
6.35	12	SLE Q	6	1	0.00	-16462.90	0.00	-7129.91	18.85	18.85	48.04	771.17
7.10	10	SLE R	6	1	75.00	-18128.00	0.00	-12181.40	18.85	18.85	80.41	1571.22
7.10	12	SLE Q	6	1	75.00	-16087.90	0.00	-10290.90	18.85	18.85	68.07	1307.31

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-7512.80	-5814.95	0.00	43.00	98.00	0.50	20.00	151.95	12.57	414.36	779.89	0.23	0.06
0.00	11	SLE F	1	1	0.00	-7684.14	-5888.72	0.00	43.00	98.00	0.50	20.00	151.88	12.57	413.94	787.78	0.23	0.06
0.00	12	SLE Q	1	1	0.00	-7512.80	-5814.95	0.00	43.00	98.00	0.50	20.00	151.95	12.57	414.36	779.89	0.23	0.06
0.00	11	SLE F	1	1	0.00	-7684.14	-5888.72	0.00	43.00	98.00	0.50	20.00	151.88	12.57	413.94	787.78	0.23	0.06
0.93	12	SLE Q	1	1	93.33	-7046.14	-5525.89	0.00	43.00	98.00	0.50	20.00	152.04	12.57	414.92	743.57	0.22	0.06
0.93	11	SLE F	1	1	93.33	-7217.48	-5628.32	0.00	43.00	98.00	0.50	20.00	152.00	12.57	414.68	756.28	0.22	0.06
0.93	12	SLE Q	2	1	0.00	-10276.20	-5253.87	0.00	43.00	98.00	0.50	20.00	148.33	12.57	391.63	614.61	0.18	0.05
0.93	11	SLE F	2	1	0.00	-10552.40	-5365.03	0.00	43.00	98.00	0.50	20.00	148.27	12.57	391.24	626.12	0.18	0.05
1.62	12	SLE Q	2	1	68.33	-9934.49	-4080.55	0.00	43.00	98.00	0.50	20.00	145.53	12.57	374.03	428.77	0.12	0.03
1.62	11	SLE F	2	1	68.33	-10210.70	-4211.24	0.00	43.00	98.00	0.50	20.00	145.59	12.57	374.41	443.53	0.13	0.03
1.62	12	SLE Q	3	1	0.00	-14351.30	-3724.61	0.00	43.00	98.00	0.50	20.00	136.23	12.57	315.60	270.52	0.08	0.02
1.62	11	SLE F	3	1	0.00	-14769.50	-3860.54	0.00	43.00	98.00	0.50	20.00	136.42	12.57	316.81	282.63	0.08	0.02
2.30	12	SLE Q	3	1	68.33	-14009.60	-2693.74	0.00	43.00	98.00	0.50	20.00	126.18	12.57	252.44	126.03	0.04	0.01
2.30	11	SLE F	3	1	68.33	-14427.80	-2864.73	0.00	43.00	98.00	0.50	20.00	127.45	12.57	260.43	142.22	0.04	0.01
2.80	12	SLE Q	5	1	0.00	-20961.90	8347.77	0.00	43.00	98.00	0.50	20.00	145.07	12.57	371.12	861.60	0.25	0.06
2.80	11	SLE F	5	1	0.00	-21346.20	8655.75	0.00	43.00	98.00	0.50	20.00	145.34	12.57	372.84	902.86	0.26	0.06
2.80	12	SLE Q	5	1	0.00	-20961.90	8347.77	0.00	43.00	98.00	0.50	20.00	145.07	12.57	371.12	861.60	0.25	0.06
2.80	11	SLE F	5	1	0.00	-21346.20	8655.75	0.00	43.00	98.00	0.50	20.00	145.34	12.57	372.84	902.86	0.26	0.06
6.10	12	SLE Q	5	1	330.00	-19311.90	-5186.45	0.00	43.00	98.00	0.50	20.00	137.14	12.57	321.32	391.01	0.11	0.03
6.10	11	SLE F	5	1	330.00	-19696.20	-5382.75	0.00	43.00	98.00	0.50	20.00	137.59	12.57	324.13	413.28	0.12	0.03
6.35	12	SLE Q	6	1	0.00	-16462.90	-7129.91	0.00	43.00	98.00	0.50	20.00	146.28	12.57	378.75	771.17	0.22	0.06
6.35	11	SLE F	6	1	0.00	-16846.80	-7364.23	0.00	43.00	98.00	0.50	20.00	146.41	12.57	379.55	800.40	0.23	0.06
6.35	12	SLE Q	6	1	0.00	-16462.90	-7129.91	0.00	43.00	98.00	0.50	20.00	146.28	12.57	378.75	771.17	0.22	0.06
6.35	11	SLE F	6	1	0.00	-16846.80	-7364.23	0.00	43.00	98.00	0.50	20.00	146.41	12.57	379.55	800.40	0.23	0.06
7.10	12	SLE Q	6	1	75.00	-16087.90	-10290.90	0.00	43.00	98.00	0.50	20.00	150.51	12.57	405.30	1307.31	0.41	0.11
7.10	11	SLE F	6	1	75.00	-16471.80	-10644.90	0.00	43.00	98.00	0.50	20.00	150.59	12.57	405.84	1356.68	0.40	0.10

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.50	0.35	273.85	2.50	30713.30	48432.50	30713.30	0.40	0.45	297.63	2.50	39564.40	49912.00	39564.40	>100
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50162.00	30713.30	0.40	0.45	28480.80	2.50	39564.40	51694.30	39564.40	1.389
0.00	0.50	ø8/10	2	2	7(TG)	SLV	0.50	0.35	21652.10	2.50	30713.30	50043.50	30713.30	0.40	0.45	0.00	2.50	39564.40	51572.30	39564.40	1.418
0.50	2.00	ø8/15	2	2	9	SLU	0.50	0.35	273.85	2.50	20475.50	49927.40	20475.50	0.40	0.45	1925.42	2.50	26376.30	51452.60	26376.30	13.699
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.50	0.35	10471.60	2.50	20475.50	50162.00	20475.50	0.40	0.45	14761.40	2.50	26376.30	51694.30	26376.30	1.787
0.50	2.00	ø8/15	2	2	7(TG)	SLV	0.50	0.35	11229.70	2.50	20475.50	50117.70	20475.50	0.40	0.45	13644.40	2.50	26376.30	51648.70	26376.30	1.823
2.00	2.50	ø8/10	2	2	9	SLU	0.50	0.35	917.83	2.50	30713.30	52087.50	30713.30	0.40	0.45	1925.42	2.50	39564.40	53678.70	39564.40	20.548
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50162.00	30713.30	0.40	0.45	28480.80	2.50	39564.40	51694.30	39564.40	1.389
2.00	2.50	ø8/10	2	2	7(TG)	SLV	0.50	0.35	21652.10	2.50	30713.30	50043.50	30713.30	0.40	0.45	0.00	2.50	39564.40	51572.30	39564.40	1.418
2.80	3.35	ø8/10	2	2	9	SLU	0.50	0.35	523.74	2.50	30713.30	51263.60	30713.30	0.40	0.45	6855.92	2.50	39564.40	52829.50	39564.40	5.771
2.80	3.35	ø8/10	2	2	1	SLV	0.50	0.35	2004.72	2.50	30713.30	49875.50	30713.30	0.40	0.45	6913.74	2.50	39564.40	51399.10	39564.40	5.723
3.35	5.55	ø8/15	2	2	9	SLU	0.50	0.35	523.74	2.50	20475.50	51215.40	20475.50	0.40	0.45	6855.92	2.50	26376.30	52780.00	26376.30	3.847
3.35	5.55	ø8/15	2	2	1	SLV	0.50	0.35	2004.72	2.50	20475.50	49838.50	20475.50	0.40	0.45	6913.74	2.50	26376.30	51360.90	26376.30	3.815
5.55	6.10	ø8/10	2	2	9	SLU	0.50	0.35	523.74	2.50	30713.30	51022.90	30713.30	0.40	0.45	6855.92	2.50	39564.40	52581.60	39564.40	5.771
5.55	6.10	ø8/10	2	2	1	SLV	0.50	0.35	2004.72	2.50	30713.30	49690.40	30713.30	0.40	0.45	6913.74	2.50	39564.40	51208.30	39564.40	5.723
6.35	7.10	ø8/15	2	2	9	SLU	0.50	0.35	1887.55	2.50	20475.50	50388.30	20475.50	0.40	0.45	7056.23	2.50	26376.30	51927.60	26376.30	3.738
6.35	7.10	ø8/15	2	2	1(TG)	SND	0.50	0.35	2411.88	2.50	20475.50	49571.20	20475.50	0.40	0.45	8675.79	2.50	26376.30	51085.50	26376.30	3.040
6.35	7.10	ø8/15	2	2	5(TG)	SND	0.50	0.35	2586.87	2.50	20475.50	49287.70	20475.50	0.40	0.45	6152.18	2.50	26376.30	50793.40	26376.30	4.287

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=14.1813 ν_d=0.024073 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=81.3744 0.09727 >= -0.01195 [7.4.29]
- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=22.5728 ν_d=0.024073 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=77.6142 0.09727 >= 0.00347 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
105	N	ø8/10	Z-	E	2	11.44	14.58	0.50	0.39	0.20	3.02
205	N	ø8/ 8	Y+	E	2	4.02	4.02	0.50	0.29	0.15	3.02
305	N	ø12/ 5	Y+	I	2	4.02	4.02	0.50	0.29	0.20	13.57
			Y-	I	2	4.02	4.02	0.50	0.29	0.20	13.57
			Z-	E	2	12.57	11.44	0.50	0.39	0.20	13.57

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
105	Z-	1	SLV	-6913.74	42308.20	5.59	6.46	134418.00	59324.80	118015.00	---	---
		1	SLV	-6913.74	42308.20	6.45	7.33	132818.00	47477.70	118015.00	---	---
205	Y+	1	SLV	2222.25	15086.60	4.21	5.12	102177.00	0.00	157353.00	---	---
		1	SLV	2222.25	15086.60	5.25	5.98	100772.00	0.00	157353.00	---	---
305	Y+	1	SLV	0.00	34617.60	0.00	4.10	130970.00	289559.00	531066.00	---	---
	Y-	1	SLV	0.00	34617.60	0.00	4.10	130970.00	289559.00	531066.00	---	---
	Z-	1	SLV	0.00	54090.00	0.00	4.10	141412.00	434808.00	531066.00	---	---

Pilastrata n. 6

Nodi: 6 106 306

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	40.00	50.00	5.70	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
1	R	40.00	50.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1(e)	SLV	1	1	0.00	-66050.00	718.69		1321.00	0.00		0.00	-226230.00	29322.30	0.00	3.425
0.00	1(e)	SLV	1	1	0.00	-66050.00	718.69		1321.00	0.00		0.00	-226230.00	29322.30	0.00	3.425
2.50	7(α)	SLV	1	1	250.00	-63886.30	3273.35	6.80	22266.00	0.00	9.70	0.00	-63886.30	29179.20	0.00	1.310
2.80	7(α)	SLV	2	1	0.00	-31673.00	-3815.68	6.80	-25955.10	0.00	20.35	0.00	-31673.00	-26902.80	0.00	1.037
2.80	7(α)	SLV	2	1	0.00	-31673.00	-3815.68	6.80	-25955.10	0.00	20.35	0.00	-31673.00	-26902.80	0.00	1.037
7.10	1	SLV	2	1	430.00	-28913.30	9336.28		9336.28	0.00		0.00	-28913.30	26699.60	0.00	2.860

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	3	SND	2	1	0.00	-30615.90	-12702.70	-12702.70	0.00	0.00	-30615.90	-22032.90	0.00	1.734
2.80	3	SND	2	1	0.00	-30615.90	-12702.70	-12702.70	0.00	0.00	-30615.90	-22032.90	0.00	1.734

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-75775.50	0.00	-1181.22	0.00	43.23	33.53	487.27
0.00	12	SLE Q	1	1	0.00	-65376.70	0.00	-1185.42	0.00	43.23	29.62	428.58
0.00	10	SLE R	1	1	0.00	-75775.50	0.00	-1181.22	0.00	43.23	33.53	487.27
0.00	12	SLE Q	1	1	0.00	-65376.70	0.00	-1185.42	0.00	43.23	29.62	428.58
2.50	10	SLE R	1	1	250.00	-74525.50	0.00	3156.26	0.00	43.23	41.27	577.32
2.50	12	SLE Q	1	1	250.00	-64126.70	0.00	2738.68	0.00	43.23	35.61	497.89
2.80	10	SLE R	2	1	0.00	-36227.10	0.00	-2904.26	0.00	43.23	25.76	348.02
2.80	12	SLE Q	2	1	0.00	-31678.30	0.00	-2522.43	0.00	43.23	22.46	303.48
2.80	10	SLE R	2	1	0.00	-36227.10	0.00	-2904.26	0.00	43.23	25.76	348.02
2.80	12	SLE Q	2	1	0.00	-31678.30	0.00	-2522.43	0.00	43.23	22.46	303.48
7.10	10	SLE R	2	1	430.00	-34077.10	0.00	3458.52	0.00	43.23	27.32	363.68
7.10	12	SLE Q	2	1	430.00	-29528.30	0.00	3080.64	0.00	43.23	24.05	319.55

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø10/ 5	2	2	9	SLU	0.50	0.35	605.18	1.85	71037.70	71037.70	71037.70	0.40	0.45	2419.00	1.59	78803.90	78803.90	78803.90	32.577
0.00	0.50	ø10/ 5	2	2	1(TG)	SLV	0.50	0.35	0.00	1.79	68655.10	68655.10	68655.10	0.40	0.45	36810.70	1.54	75948.60	75948.60	75948.60	2.063
0.00	0.50	ø10/ 5	2	2	1(TG)	SLV	0.50	0.35	28266.80	1.79	68655.00	68655.00	68655.00	0.40	0.45	0.00	1.54	75948.50	75948.50	75948.50	2.429
0.50	2.00	ø8/15	2	2	9	SLU	0.50	0.35	605.18	2.50	20475.50	58564.10	20475.50	0.40	0.45	2419.00	2.50	26376.30	60353.10	26376.30	10.904
0.50	2.00	ø8/15	2	2	1(TG)	SLV	0.50	0.35	14113.10	2.50	20475.50	55574.50	20475.50	0.40	0.45	18431.20	2.50	26376.30	57272.20	26376.30	1.431
2.00	2.50	ø8/10	2	2	9	SLU	0.50	0.35	605.18	2.50	30713.30	58564.10	30713.30	0.40	0.45	2419.00	2.50	39564.40	60353.10	39564.40	16.356
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	55574.60	30713.30	0.40	0.45	36810.70	2.50	39564.40	57272.30	39564.40	1.075
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	28266.80	2.50	30713.30	55574.50	30713.30	0.40	0.45	0.00	2.50	39564.40	57272.20	39564.40	1.087
2.80	3.52	ø8/10	2	2	9	SLU	0.50	0.35	339.65	2.50	30713.30	53689.00	30713.30	0.40	0.45	2085.26	2.50	39564.40	55329.10	39564.40	18.973
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50909.40	30713.30	0.40	0.45	19656.60	2.50	39564.40	52464.50	39564.40	2.013
2.80	3.52	ø8/10	2	2	3(TG)	SLV	0.50	0.35	14926.30	2.50	30713.30	50895.40	30713.30	0.40	0.45	0.00	2.50	39564.40	52450.10	39564.40	2.058
3.52	6.38	ø8/15	2	2	9	SLU	0.50	0.35	339.65	2.50	20475.50	53626.30	20475.50	0.40	0.45	2085.26	2.50	26376.30	55264.40	26376.30	12.649
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	20475.50	50909.40	20475.50	0.40	0.45	19656.60	2.50	26376.30	52464.50	26376.30	1.342
3.52	6.38	ø8/15	2	2	3(TG)	SLV	0.50	0.35	14926.30	2.50	20475.50	50895.40	20475.50	0.40	0.45	0.00	2.50	26376.30	52450.10	26376.30	1.372
6.38	7.10	ø8/10	2	2	9	SLU	0.50	0.35	339.65	2.50	30713.30	53375.50	30713.30	0.40	0.45	2085.26	2.50	39564.40	55006.00	39564.40	18.973
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50909.40	30713.30	0.40	0.45	19656.60	2.50	39564.40	52464.50	39564.40	2.013
6.38	7.10	ø8/10	2	2	3(TG)	SLV	0.50	0.35	14926.30	2.50	30713.30	50895.40	30713.30	0.40	0.45	0.00	2.50	39564.40	52450.10	39564.40	2.058

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.61887 ω_{wd}=0.58342 $\mu\Phi_d$=14.1813 ν_d=0.18977 $E_{sy,d}$=0.0018995 b_c/b_0=1.19048 $\mu\Phi_c$=30.7634
  0.36106 >= 0.14757 [7.4.29]
- CC=1 α_e=0.61887 ω_{wd}=0.58342 $\mu\Phi_d$=22.5728 ν_d=0.18977 $E_{sy,d}$=0.0018995 b_c/b_0=1.25 $\mu\Phi_c$=29.2984
  0.36106 >= 0.27014 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
106	S	ø10/10	Y+	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z+	I	2	27.14	17.72	0.50	0.39	0.20	4.71
			Y-	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z-	I	2	27.14	17.72	0.50	0.39	0.20	4.71
306	S	ø10/10	Y+	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z+	I	2	25.13	15.46	0.50	0.39	0.20	4.71
			Y-	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z-	I	2	25.13	15.46	0.50	0.39	0.20	4.71

Pilastrata n. 7

Nodi: 7 107 307

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd

		<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
1	R	40.00	50.00	5.70	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
1	R	40.00	50.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-65123.00	3056.36		3056.36	0.00		0.00	-226230.00	29261.50	0.00	3.474
0.00	1	SLV	1	1	0.00	-65123.00	3056.36		3056.36	0.00		0.00	-226230.00	29261.50	0.00	3.474
2.50	5(α)	SLV	1	1	250.00	-63190.80	-3871.50	4.68	-18125.70	0.00	9.81	0.00	-63190.80	-29132.60	0.00	1.607
2.80	7(α)	SLV	2	1	0.00	-31410.10	1842.95	10.79	19879.50	0.00	35.65	0.00	-31410.10	26883.50	0.00	1.352
2.80	7(α)	SLV	2	1	0.00	-31410.10	1842.95	10.79	19879.50	0.00	35.65	0.00	-31410.10	26883.50	0.00	1.352
7.10	1	SLV	2	1	430.00	-28745.10	-9779.84		-9779.84	0.00		0.00	-28745.10	-26687.10	0.00	2.729

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	3	SND	2	1	0.00	-30450.40	12092.00	12092.00	0.00	0.00	-30450.40	22016.40	0.00	1.821
2.80	3	SND	2	1	0.00	-30450.40	12092.00	12092.00	0.00	0.00	-30450.40	22016.40	0.00	1.821

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-75038.20	0.00	1049.67	0.00	43.23	32.70	476.62
0.00	12	SLE Q	1	1	0.00	-64693.80	0.00	910.88	0.00	43.23	28.22	411.21
0.00	10	SLE R	1	1	0.00	-75038.20	0.00	1049.67	0.00	43.23	32.70	476.62
0.00	12	SLE Q	1	1	0.00	-64693.80	0.00	910.88	0.00	43.23	28.22	411.21
2.50	10	SLE R	1	1	250.00	-73788.20	0.00	-2586.39	0.00	43.23	38.62	545.12
2.50	12	SLE Q	1	1	250.00	-63443.80	0.00	-2179.35	0.00	43.23	33.02	466.51
2.80	10	SLE R	2	1	0.00	-35982.90	0.00	3696.10	0.00	43.23	29.04	386.34
2.80	12	SLE Q	2	1	0.00	-31448.10	0.00	3184.57	0.00	43.23	25.18	335.25
2.80	10	SLE R	2	1	0.00	-35982.90	0.00	3696.10	0.00	43.23	29.04	386.34
2.80	12	SLE Q	2	1	0.00	-31448.10	0.00	3184.57	0.00	43.23	25.18	335.25
7.10	10	SLE R	2	1	430.00	-33832.90	0.00	-3926.93	15.33	27.90	29.43	387.81
7.10	12	SLE Q	2	1	430.00	-29298.10	0.00	-3428.05	15.33	27.90	25.62	337.37

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
7.10	12	SLE Q	2	1	430.00	-29298.10	-3428.05	0.00	43.00	97.35	0.50	22.18	149.40	15.33	438.21	11.26	0.00	0.00
7.10	11	SLE F	2	1	430.00	-30145.50	-3516.72	0.00	43.00	97.35	0.50	22.18	148.65	15.33	433.02	10.84	0.00	0.00

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø10/ 5	2	2	9	SLU	0.50	0.35	294.86	1.85	71037.70	71037.70	71037.70	0.40	0.45	2099.76	1.59	78803.90	78803.90	78803.90	37.530
0.00	0.50	ø10/ 5	2	2	3(TG)	SLV	0.50	0.35	0.00	1.79	68545.00	68544.90	68544.90	0.40	0.45	36726.70	1.53	75816.50	75816.50	75816.50	2.064
0.00	0.50	ø10/ 5	2	2	1(TG)	SLV	0.50	0.35	28206.60	1.79	68553.60	68553.60	68553.60	0.40	0.45	0.00	1.53	75826.80	75826.80	75826.80	2.430
0.50	2.00	ø8/15	2	2	9	SLU	0.50	0.35	294.86	2.50	20475.50	58564.10	20475.50	0.40	0.45	2099.76	2.50	26376.30	60353.10	26376.30	12.562
0.50	2.00	ø8/15	2	2	1(TG)	SLV	0.50	0.35	14083.00	2.50	20475.50	55449.50	20475.50	0.40	0.45	18393.00	2.50	26376.30	57143.30	26376.30	1.434
0.50	2.00	ø8/15	2	2	3(TG)	SLV	0.50	0.35	14120.90	2.50	20475.50	55438.90	20475.50	0.40	0.45	18337.30	2.50	26376.30	57132.40	26376.30	1.438
2.00	2.50	ø8/10	2	2	9	SLU	0.50	0.35	294.86	2.50	30713.30	58564.10	30713.30	0.40	0.45	2099.76	2.50	39564.40	60353.10	39564.40	18.842
2.00	2.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	55438.90	30713.30	0.40	0.45	36726.70	2.50	39564.40	57132.40	39564.40	1.077
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	28206.60	2.50	30713.30	55449.50	30713.30	0.40	0.45	0.00	2.50	39564.40	57143.30	39564.40	1.089
2.80	3.52	ø8/10	2	2	9	SLU	0.50	0.35	127.01	2.50	30713.30	53641.50	30713.30	0.40	0.45	2514.50	2.50	39564.40	55280.10	39564.40	15.735
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50869.80	30713.30	0.40	0.45	19638.80	2.50	39564.40	52423.80	39564.40	2.015
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.50	0.35	14916.70	2.50	30713.30	50869.90	30713.30	0.40	0.45	0.00	2.50	39564.40	52423.90	39564.40	2.059
3.52	6.38	ø8/15	2	2	9	SLU	0.50	0.35	127.01	2.50	20475.50	53578.80	20475.50	0.40	0.45	2514.50	2.50	26376.30	55215.50	26376.30	10.490
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	20475.50	50869.80	20475.50	0.40	0.45	19638.80	2.50	26376.30	52423.80	26376.30	1.343
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.50	0.35	14916.70	2.50	20475.50	50869.90	20475.50	0.40	0.45	0.00	2.50	26376.30	52423.90	26376.30	1.373
6.38	7.10	ø8/10	2	2	9	SLU	0.50	0.35	127.01	2.50	30713.30	53328.00	30713.30	0.40	0.45	2514.50	2.50	39564.40	54957.00	39564.40	15.735
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50869.80	30713.30	0.40	0.45	19638.80	2.50	39564.40	52423.80	39564.40	2.015
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.50	0.35	14916.70	2.50	30713.30	50869.90	30713.30	0.40	0.45	0.00	2.50	39564.40	52423.90	39564.40	2.059

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.61887 ω_{wd}=0.58342 $\mu\Phi_d$=14.1813 v_d=0.18711 $E_{sy,d}$=0.0018995 b_c/b_θ=1.19048 $\mu\Phi_c$=31.2013
  0.36106 >= 0.14501 [7.4.29]
- CC=1 α_e=0.61887 ω_{wd}=0.58342 $\mu\Phi_d$=22.5728 v_d=0.18711 $E_{sy,d}$=0.0018995 b_c/b_θ=1.25 $\mu\Phi_c$=29.7155
  0.36106 >= 0.26586 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
107	S	ø10/10	Y+	I	2	6.28	6.28	0.50	0.29	0.20	4.71
			Z+	I	2	27.14	17.72	0.50	0.39	0.20	4.71
			Y-	I	2	6.28	6.28	0.50	0.29	0.20	4.71
			Z-	I	2	27.14	17.72	0.50	0.39	0.20	4.71
307	S	ø10/10	Y+	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z+	I	2	25.13	15.46	0.50	0.39	0.20	4.71
			Y-	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z-	I	2	25.13	15.46	0.50	0.39	0.20	4.71

Pilastrata n. 8

Nodi: 8 -940 -1059 -1178 108 208 308

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	40.00	50.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
1	R	40.00	50.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	1	0.00	-10195.20	6982.51		6982.51	0.00		0.00	-10195.20	19687.40	0.00	2.820
0.00	9	SLU	1	1	0.00	-10195.20	6982.51		6982.51	0.00		0.00	-10195.20	19687.40	0.00	2.820
0.93	9	SLU	1	1	93.33	-9588.49	7099.97		7099.97	0.00		0.00	-9588.49	19613.90	0.00	2.763
0.93	9	SLU	2	1	0.00	-14968.40	6950.67		6950.67	0.00		0.00	-14968.40	20254.70	0.00	2.914
1.62	9	SLU	2	1	68.33	-14524.20	5996.97		5996.97	0.00		0.00	-14524.20	20203.40	0.00	3.369
1.62	1	SLV	3	1	0.00	-12598.20	5452.59		5452.59	0.00		0.00	-12598.20	19978.20	0.00	3.664
2.30	1	SLV	3	1	68.33	-12256.50	6173.31		6173.31	0.00		0.00	-12256.50	19937.00	0.00	3.230
2.30	1	SLV	4	1	0.00	-21833.30	5615.81		5615.81	0.00		0.00	-21833.30	20879.70	0.00	3.718
2.50	1(α)	SLV	4	1	20.00	-21733.30	7042.54	1.30	9155.30	0.00	1.00	0.00	-21733.30	20872.00	0.00	2.280
2.80	1(α)	SLV	5	1	0.00	-18944.90	-15092.40	1.30	-19620.20	0.00	1.00	0.00	-18944.90	-20663.60	0.00	1.053
2.80	1(α)	SLV	5	1	0.00	-18944.90	-15092.40	1.30	-19620.20	0.00	1.00	0.00	-18944.90	-20663.60	0.00	1.053
6.10	3(α)	SLV	5	1	330.00	-17414.20	0.00	1.00	0.00	757.23	10.80	8174.53	-17414.20	0.00	15861.00	1.940
6.35	9	SLU	6	1	0.00	-26050.10	11620.90		11620.90	0.00		0.00	-26050.10	21195.60	0.00	1.824
6.35	9	SLU	6	1	0.00	-26050.10	11620.90		11620.90	0.00		0.00	-26050.10	21195.60	0.00	1.824
7.10	9	SLU	6	1	75.00	-25562.60	16818.10		16818.10	0.00		0.00	-25562.60	21159.50	0.00	1.258

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-7281.02	0.00	5020.79	16.59	16.59	36.04	762.96
0.00	12	SLE Q	1	1	0.00	-6552.27	0.00	4661.23	16.59	16.59	33.43	714.66
0.00	10	SLE R	1	1	0.00	-7281.02	0.00	5020.79	16.59	16.59	36.04	762.96
0.00	12	SLE Q	1	1	0.00	-6552.27	0.00	4661.23	16.59	16.59	33.43	714.66
0.93	10	SLE R	1	1	93.33	-6814.35	0.00	5083.15	22.87	10.30	36.41	789.49
0.93	12	SLE Q	1	1	93.33	-6085.60	0.00	4630.70	22.87	10.30	33.15	722.97
0.93	10	SLE R	2	1	0.00	-10620.20	0.00	4967.48	16.59	16.59	36.11	652.62
0.93	12	SLE Q	2	1	0.00	-9425.71	0.00	4489.83	16.59	16.59	32.62	594.95
1.62	10	SLE R	2	1	68.33	-10278.60	0.00	4258.21	16.59	16.59	31.09	525.39
1.62	12	SLE Q	2	1	68.33	-9084.04	0.00	3737.77	16.59	16.59	27.29	459.41
1.62	10	SLE R	3	1	0.00	-15499.70	0.00	4034.32	16.59	16.59	29.93	359.02
1.62	12	SLE Q	3	1	0.00	-13667.50	0.00	3503.46	16.59	16.59	26.01	312.55
2.30	10	SLE R	3	1	68.33	-15158.10	0.00	3564.46	16.59	16.59	26.55	322.57
2.30	12	SLE Q	3	1	68.33	-13325.80	0.00	2936.56	16.59	16.59	21.93	268.73
2.30	10	SLE R	4	1	0.00	-26789.90	0.00	3149.25	10.30	22.87	25.62	337.82
2.30	12	SLE Q	4	1	0.00	-23532.30	0.00	2575.69	10.30	22.87	21.44	284.45
2.50	10	SLE R	4	1	20.00	-26689.90	0.00	3509.96	10.30	22.87	27.74	361.81
2.50	12	SLE Q	4	1	20.00	-23432.30	0.00	2779.22	10.30	22.87	22.55	297.11
2.80	10	SLE R	5	1	0.00	-22722.90	0.00	-9072.17	16.59	16.59	66.32	1095.79
2.80	12	SLE Q	5	1	0.00	-20710.40	0.00	-7732.00	16.59	16.59	56.65	895.92
2.80	10	SLE R	5	1	0.00	-22722.90	0.00	-9072.17	16.59	16.59	66.32	1095.79
2.80	12	SLE Q	5	1	0.00	-20710.40	0.00	-7732.00	16.59	16.59	56.65	895.92
6.10	10	SLE R	5	1	330.00	-21072.90	0.00	6962.71	16.59	16.59	51.23	739.83
6.10	12	SLE Q	5	1	330.00	-19060.40	0.00	5890.97	16.59	16.59	43.45	592.84
6.35	10	SLE R	6	1	0.00	-18347.60	0.00	8199.86	16.59	16.59	59.71	1053.46
6.35	12	SLE Q	6	1	0.00	-16334.30	0.00	6941.74	16.59	16.59	50.63	868.62
6.35	10	SLE R	6	1	0.00	-18347.60	0.00	8199.86	16.59	16.59	59.71	1053.46
6.35	12	SLE Q	6	1	0.00	-16334.30	0.00	6941.74	16.59	16.59	50.63	868.62
7.10	10	SLE R	6	1	75.00	-17972.60	0.00	11869.70	16.59	16.59	85.33	1780.56
7.10	12	SLE Q	6	1	75.00	-15959.30	0.00	10058.90	16.59	16.59	72.41	1486.81

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-6552.27	4661.23	0.00	43.00	98.69	0.50	18.22	160.24	10.30	419.80	714.66	0.21	0.06
0.00	11	SLE F	1	1	0.00	-6712.39	4731.25	0.00	43.00	98.69	0.50	18.22	160.16	10.30	419.38	723.50	0.21	0.06
0.00	12	SLE Q	1	1	0.00	-6552.27	4661.23	0.00	43.00	98.69	0.50	18.22	160.24	10.30	419.80	714.66	0.21	0.06
0.00	11	SLE F	1	1	0.00	-6712.39	4731.25	0.00	43.00	98.69	0.50	18.22	160.16	10.30	419.38	723.50	0.21	0.06
0.93	12	SLE Q	1	1	93.33	-6085.60	4630.70	0.00	43.00	98.69	0.50	18.22	160.75	10.30	422.72	722.97	0.21	0.06
0.93	11	SLE F	1	1	93.33	-6245.73	4731.60	0.00	43.00	98.69	0.50	18.22	160.72	10.30	422.53	737.88	0.21	0.06
0.93	12	SLE Q	2	1	0.00	-9425.71	4489.83	0.00	43.00	98.69	0.50	18.22	156.12	10.30	396.49	594.95	0.17	0.05
0.93	11	SLE F	2	1	0.00	-9692.22	4600.47	0.00	43.00	98.69	0.50	18.22	156.07	10.30	396.23	608.60	0.18	0.05
1.62	12	SLE Q	2	1	68.33	-9084.04	3737.77	0.00	43.00	98.69	0.50	18.22	154.00	10.30	384.56	459.41	0.13	0.04
1.62	11	SLE F	2	1	68.33	-9350.55	3870.32	0.00	43.00	98.69	0.50	18.22	154.10	10.30	385.08	477.30	0.14	0.04
1.62	12	SLE Q	3	1	0.00	-13667.50	3503.46	0.00	43.00	98.69	0.50	18.22	143.42	10.30	324.71	292.87	0.09	0.02
1.62	11	SLE F	3	1	0.00	-14078.30	3641.90	0.00	43.00	98.69	0.50	18.22	143.70	10.30	326.28	307.62	0.09	0.02
2.30	12	SLE Q	3	1	68.33	-13325.80	2936.56	0.00	43.00	98.69	0.50	18.22	138.25	10.30	295.47	201.61	0.06	0.01
2.30	11	SLE F	3	1	68.33	-13736.60	3112.92	0.00	43.00	98.69	0.50	18.22	139.29	10.30	301.35	222.51	0.06	0.02
2.80	12	SLE Q	5	1	0.00	-20710.40	-7732.00	0.00	43.00	98.69	0.50	18.22	152.36	10.30	375.24	895.92	0.26	0.07
2.80	11	SLE F	5	1	0.00	-21090.30	-8023.63	0.00	43.00	98.69	0.50	18.22	152.69	10.30	377.14	940.99	0.27	0.07
2.80	12	SLE Q	5	1	0.00	-20710.40	-7732.00	0.00	43.00	98.69	0.50	18.22	152.36	10.30	375.24	895.92	0.26	0.07
2.80	11	SLE F	5	1	0.00	-21090.30	-8023.63	0.00	43.00	98.69	0.50	18.22	152.69	10.30	377.14	940.99	0.27	0.07
6.10	12	SLE Q	5	1	330.00	-19060.40	5890.97	0.00	43.00	98.69	0.50	18.22	148.46	10.30	353.18	592.84	0.17	0.04
6.10	11	SLE F	5	1	330.00	-19440.30	6086.95	0.00	43.00	98.69	0.50	18.22	148.76	10.30	354.89	619.34	0.18	0.05
6.35	12	SLE Q	6	1	0.00	-16334.30	6941.74	0.00	43.00	98.69	0.50	18.22	154.51	10.30	387.39	868.62	0.25	0.07
6.35	11	SLE F	6	1	0.00	-16714.40	7175.28	0.00	43.00	98.69	0.50	18.22	154.66	10.30	388.25	902.73	0.26	0.07
6.35	12	SLE Q	6	1	0.00	-16334.30	6941.74	0.00	43.00	98.69	0.50	18.22	154.51	10.30	387.39	868.62	0.25	0.07
6.35	11	SLE F	6	1	0.00	-16714.40	7175.28	0.00	43.00	98.69	0.50	18.22	154.66	10.30	388.25	902.73	0.26	0.07
7.10	12	SLE Q	6	1	75.00	-15959.30	10058.90	0.00	43.00	98.69	0.50	18.22	159.20	10.30	413.94	1486.81	0.46	0.12
7.10	11	SLE F	6	1	75.00	-16339.40	10404.00	0.00	43.00	98.69	0.50	18.22	159.29	10.30	414.46	1542.91	0.45	0.12

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.50	0.35	114.56	2.50	30713.30	48223.70	30713.30	0.40	0.45	125.85	2.50	39564.40	49696.80	39564.40	>100
0.00	0.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	10419.90	2.50	30713.30	50220.20	30713.30	0.40	0.45	12145.40	2.50	39564.40	51754.30	39564.40	2.948
0.00	0.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	19768.60	2.50	30713.30	50220.20	30713.30	0.40	0.45	0.00	2.50	39564.40	51754.30	39564.40	1.554
0.50	2.00	ø8/15	2	2	9	SLU	0.50	0.35	114.56	2.50	20475.50	49767.60	20475.50	0.40	0.45	888.40	2.50	26376.30	51287.90	26376.30	29.690
0.50	2.00	ø8/15	2	2	3(TG)	SLV	0.50	0.35	10419.90	2.50	20475.50	50220.20	20475.50	0.40	0.45	12145.40	2.50	26376.30	51754.30	26376.30	1.965
0.50	2.00	ø8/15	2	2	3(TG)	SLV	0.50	0.35	19768.60	2.50	20475.50	50220.20	20475.50	0.40	0.45	0.00	2.50	26376.30	51754.30	26376.30	1.036
2.00	2.50	ø8/10	2	2	9	SLU	0.50	0.35	926.03	2.50	30713.30	51941.70	30713.30	0.40	0.45	2739.97	2.50	39564.40	53528.40	39564.40	14.440
2.00	2.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	10419.90	2.50	30713.30	50220.20	30713.30	0.40	0.45	12145.40	2.50	39564.40	51754.30	39564.40	2.948
2.00	2.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	19768.60	2.50	30713.30	50220.20	30713.30	0.40	0.45	0.00	2.50	39564.40	51754.30	39564.40	1.554
2.80	3.35	ø8/10	2	2	9	SLU	0.50	0.35	298.48	2.50	30713.30	51168.40	30713.30	0.40	0.45	6881.43	2.50	39564.40	52731.40	39564.40	5.749
2.80	3.35	ø8/10	2	2	1	SLV	0.50	0.35	1069.79	2.50	30713.30	49876.80	30713.30	0.40	0.45	6923.09	2.50	39564.40	51400.40	39564.40	5.715
2.80	3.35	ø8/10	2	2	5	SLV	0.50	0.35	1106.10	2.50	30713.30	49734.80	30713.30	0.40	0.45	5257.02	2.50	39564.40	51254.10	39564.40	7.526
3.35	5.55	ø8/15	2	2	9	SLU	0.50	0.35	298.48	2.50	20475.50	51120.20	20475.50	0.40	0.45	6881.43	2.50	26376.30	52681.80	26376.30	3.833
3.35	5.55	ø8/15	2	2	1	SLV	0.50	0.35	1069.79	2.50	20475.50	49839.80	20475.50	0.40	0.45	6923.09	2.50	26376.30	51362.30	26376.30	3.810
3.35	5.55	ø8/15	2	2	5	SLV	0.50	0.35	1106.10	2.50	20475.50	49697.80	20475.50	0.40	0.45	5257.02	2.50	26376.30	51215.90	26376.30	5.017
5.55	6.10	ø8/10	2	2	9	SLU	0.50	0.35	298.48	2.50	30713.30	50927.80	30713.30	0.40	0.45	6881.43	2.50	39564.40	52483.50	39564.40	5.749
5.55	6.10	ø8/10	2	2	1	SLV	0.50	0.35	1069.79	2.50	30713.30	49691.70	30713.30	0.40	0.45	6923.09	2.50	39564.40	51209.70	39564.40	5.715
5.55	6.10	ø8/10	2	2	5	SLV	0.50	0.35	1106.10	2.50	30713.30	49549.70	30713.30	0.40	0.45	5257.02	2.50	39564.40	51063.30	39564.40	7.526
6.35	7.10	ø8/10	2	2	9	SLU	0.50	0.35	1054.08	2.50	30713.30	50357.90	30713.30	0.40	0.45	6929.48	2.50	39564.40	51896.30	39564.40	5.710
6.35	7.10	ø8/10	2	2	1	SLV	0.50	0.35	1534.22	2.50	30713.30	49287.30	30713.30	0.40	0.45	6265.85	2.50	39564.40	50792.90	39564.40	6.314
6.35	7.10	ø8/10	2	2	1(TG)	SND	0.50	0.35	2310.71	2.50	30713.30	49542.80	30713.30								13.292
6.35	7.10	ø8/10	2	2	1(TG)	SLV								0.40	0.45	0.00	2.50	39564.40	50252.40	39564.40	---

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=14.1813 ν_d=0.020977 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=93.3866 0.09727 >= -0.01491 [7.4.29]
- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=22.5728 ν_d=0.020977 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=89.0713 0.09727 >= -0.00148 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
108	N	ø8/10	Z+	E	2	11.44	14.58	0.50	0.39	0.20	3.02
208	N	ø8/ 8	Y+	I	2	4.02	4.02	0.50	0.29	0.15	3.02
			Y-	I	2	4.02	4.02	0.50	0.29	0.15	3.02
308	N	ø12/ 5	Y+	I	2	4.02	4.02	0.50	0.29	0.20	13.57
			Z+	E	2	12.57	11.44	0.50	0.39	0.20	13.57
			Y-	I	2	4.02	4.02	0.50	0.29	0.20	13.57

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_S	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
108	Z+	1	SLV	6923.09	42298.80	5.44	6.24	134689.00	61410.20	118015.00	---	---
		1	SLV	6923.09	42298.80	6.46	7.22	132812.00	47359.30	118015.00	---	---
208	Y+	1	SLV	-1534.22	33083.40	4.19	4.97	129168.00	103724.00	157353.00	---	---
		1	SLV	-1534.22	33083.40	5.20	5.98	127811.00	85081.00	157353.00	---	---
	Y-	1	SLV	-1534.22	33083.40	4.19	4.97	129168.00	103724.00	157353.00	---	---
		1	SLV	-1534.22	33083.40	5.20	5.98	127811.00	85081.00	157353.00	---	---
308	Y+	1	SLV	0.00	34617.60	0.00	4.08	130970.00	289558.00	531066.00	---	---
	Z+	1	SLV	0.00	54090.00	0.00	4.08	141412.00	434808.00	531066.00	---	---
	Y-	1	SLV	0.00	34617.60	0.00	4.08	130970.00	289558.00	531066.00	---	---

Pilastrata n. 9

Nodi: 9 -951 -1070 -1189 109 209 309

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	40.00	50.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
1	R	40.00	50.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	1	0.00	-12128.40	-9339.95		-9339.95	0.00		0.00	-12128.40	-18921.10	0.00	2.026
0.00	9	SLU	1	1	0.00	-12128.40	-9339.95		-9339.95	0.00		0.00	-12128.40	-18921.10	0.00	2.026
0.93	9	SLU	1	1	93.33	-11521.70	-9023.37		-9023.37	0.00		0.00	-11521.70	-18848.10	0.00	2.089
0.93	9	SLU	2	1	0.00	-16992.10	-8646.20		-8646.20	0.00		0.00	-16992.10	-19488.30	0.00	2.254
1.62	9	SLU	2	1	68.33	-16547.90	-6985.61		-6985.61	0.00		0.00	-16547.90	-19440.60	0.00	2.783
1.62	9	SLU	3	1	0.00	-24173.60	-6451.24		-6451.24	0.00		0.00	-24173.60	-20062.20	0.00	3.110
2.30	1	SLV	3	1	68.33	-13818.80	-5459.74		-5459.74	0.00		0.00	-13818.80	-19123.10	0.00	3.503
2.30	1	SLV	4	1	0.00	-24313.40	-4871.95		-4871.95	0.00		0.00	-24313.40	-20072.80	0.00	4.120
2.50	1(α)	SLV	4	1	20.00	-24213.40	-5824.00	1.30	-7571.20	0.00	1.00	0.00	-24213.40	-20065.30	0.00	2.650
2.80	1(α)	SLV	5	1	0.00	-23129.20	13643.60	1.30	17736.60	0.00	1.00	0.00	-23129.20	19984.00	0.00	1.127
2.80	1(α)	SLV	5	1	0.00	-23129.20	13643.60	1.30	17736.60	0.00	1.00	0.00	-23129.20	19984.00	0.00	1.127
6.10	3(α)	SLV	5	1	330.00	-21576.10	0.00	1.00	0.00	-1378.95	4.76	-6570.20	-21576.10	0.00	-15599.80	2.374
6.35	9	SLU	6	1	0.00	-25586.00	-13319.20		-13319.20	0.00		0.00	-25586.00	-20167.60	0.00	1.514
6.35	9	SLU	6	1	0.00	-25586.00	-13319.20		-13319.20	0.00		0.00	-25586.00	-20167.60	0.00	1.514
7.10	9	SLU	6	1	75.00	-25098.50	-17303.80		-17303.80	0.00		0.00	-25098.50	-20131.30	0.00	1.163

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-8646.85	0.00	-6697.85	21.99	9.42	50.00	1119.60

0.00	12	SLE Q	1	1	0.00	-7774.76	0.00	-6257.70	21.99	9.42	46.68	1056.03
0.00	10	SLE R	1	1	0.00	-8646.85	0.00	-6697.85	21.99	9.42	50.00	1119.60
0.00	12	SLE Q	1	1	0.00	-7774.76	0.00	-6257.70	21.99	9.42	46.68	1056.03
0.93	10	SLE R	1	1	93.33	-8180.19	0.00	-6455.48	21.99	9.42	48.17	1084.15
0.93	12	SLE Q	1	1	93.33	-7308.09	0.00	-5937.44	21.99	9.42	44.28	1004.26
0.93	10	SLE R	2	1	0.00	-12069.00	0.00	-6178.91	15.71	15.71	46.61	900.55
0.93	12	SLE Q	2	1	0.00	-10681.00	0.00	-5641.75	15.71	15.71	42.52	833.03
1.62	10	SLE R	2	1	68.33	-11727.30	0.00	-4971.47	15.71	15.71	37.68	661.50
1.62	12	SLE Q	2	1	68.33	-10339.40	0.00	-4412.13	15.71	15.71	33.44	589.18
1.62	10	SLE R	3	1	0.00	-17142.40	0.00	-4583.30	15.71	15.71	35.11	426.45
1.62	12	SLE Q	3	1	0.00	-15052.30	0.00	-4019.16	15.71	15.71	30.79	373.43
2.30	10	SLE R	3	1	68.33	-16800.70	0.00	-3557.91	15.71	15.71	27.41	333.51
2.30	12	SLE Q	3	1	68.33	-14710.60	0.00	-2920.73	15.71	15.71	22.55	276.90
2.30	10	SLE R	4	1	0.00	-29267.30	0.00	-3064.52	0.00	31.42	26.38	349.06
2.30	12	SLE Q	4	1	0.00	-25580.60	0.00	-2487.79	0.00	31.42	22.05	293.42
2.50	10	SLE R	4	1	20.00	-29167.30	0.00	-3147.19	9.42	21.99	26.80	353.76
2.50	12	SLE Q	4	1	20.00	-25480.60	0.00	-2419.57	0.00	31.42	21.66	288.80
2.80	10	SLE R	5	1	0.00	-27154.00	0.00	9074.60	15.71	15.71	69.18	1034.79
2.80	12	SLE Q	5	1	0.00	-24410.00	0.00	7756.86	15.71	15.71	59.20	849.79
2.80	10	SLE R	5	1	0.00	-27154.00	0.00	9074.60	15.71	15.71	69.18	1034.79
2.80	12	SLE Q	5	1	0.00	-24410.00	0.00	7756.86	15.71	15.71	59.20	849.79
6.10	10	SLE R	5	1	330.00	-25504.00	0.00	-4883.66	15.71	15.71	37.77	466.08
6.10	12	SLE Q	5	1	330.00	-22760.00	0.00	-4087.41	15.71	15.71	31.72	394.91
6.35	10	SLE R	6	1	0.00	-18016.50	0.00	-9418.35	15.71	15.71	71.01	1384.75
6.35	12	SLE Q	6	1	0.00	-16021.30	0.00	-7913.74	15.71	15.71	59.75	1135.57
6.35	10	SLE R	6	1	0.00	-18016.50	0.00	-9418.35	15.71	15.71	71.01	1384.75
6.35	12	SLE Q	6	1	0.00	-16021.30	0.00	-7913.74	15.71	15.71	59.75	1135.57
7.10	10	SLE R	6	1	75.00	-17641.50	0.00	-12209.70	21.99	9.42	91.40	1979.35
7.10	12	SLE Q	6	1	75.00	-15646.30	0.00	-10290.00	15.71	15.71	77.13	1642.78

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-7774.76	-6257.70	0.00	43.00	147.00	0.50	20.00	177.05	9.42	429.06	1056.03	0.31	0.09
0.00	11	SLE F	1	1	0.00	-7945.69	-6334.46	0.00	43.00	147.00	0.50	20.00	176.97	9.42	428.69	1066.50	0.31	0.09
0.00	12	SLE Q	1	1	0.00	-7774.76	-6257.70	0.00	43.00	147.00	0.50	20.00	177.05	9.42	429.06	1056.03	0.31	0.09
0.00	11	SLE F	1	1	0.00	-7945.69	-6334.46	0.00	43.00	147.00	0.50	20.00	176.97	9.42	428.69	1066.50	0.31	0.09
0.93	12	SLE Q	1	1	93.33	-7308.09	-5937.44	0.00	43.00	147.00	0.50	20.00	177.12	9.42	429.41	1004.26	0.29	0.09
0.93	11	SLE F	1	1	93.33	-7479.02	-6039.85	0.00	43.00	147.00	0.50	20.00	177.07	9.42	429.18	1020.10	0.30	0.09
0.93	12	SLE Q	2	1	0.00	-10681.00	-5641.75	0.00	43.00	147.00	0.50	20.00	172.62	9.42	408.20	833.03	0.24	0.07
0.93	11	SLE F	2	1	0.00	-10952.70	-5752.29	0.00	43.00	147.00	0.50	20.00	172.54	9.42	407.84	847.36	0.25	0.07
1.62	12	SLE Q	2	1	68.33	-10339.40	-4412.13	0.00	43.00	147.00	0.50	20.00	169.31	9.42	392.60	589.18	0.17	0.05
1.62	11	SLE F	2	1	68.33	-10611.10	-4539.51	0.00	43.00	147.00	0.50	20.00	169.35	9.42	392.81	607.02	0.18	0.05
1.62	12	SLE Q	3	1	0.00	-15052.30	-4019.16	0.00	43.00	147.00	0.50	20.00	157.54	9.42	337.12	373.43	0.11	0.03
1.62	11	SLE F	3	1	0.00	-15459.80	-4151.23	0.00	43.00	147.00	0.50	20.00	157.73	9.42	338.03	388.04	0.11	0.03
2.30	12	SLE Q	3	1	68.33	-14710.60	-2920.73	0.00	43.00	147.00	0.50	20.00	144.81	9.42	277.12	179.28	0.05	0.01
2.30	11	SLE F	3	1	68.33	-15118.20	-3083.45	0.00	43.00	147.00	0.50	20.00	146.19	9.42	283.65	198.38	0.06	0.01
2.80	12	SLE Q	5	1	0.00	-24410.00	7756.86	0.00	43.00	147.00	0.50	20.00	162.84	9.42	362.11	849.79	0.25	0.07
2.80	11	SLE F	5	1	0.00	-24784.80	8070.42	0.00	43.00	147.00	0.50	20.00	163.48	9.42	365.13	901.80	0.26	0.07
2.80	12	SLE Q	5	1	0.00	-24410.00	7756.86	0.00	43.00	147.00	0.50	20.00	162.84	9.42	362.11	849.79	0.25	0.07
2.80	11	SLE F	5	1	0.00	-24784.80	8070.42	0.00	43.00	147.00	0.50	20.00	163.48	9.42	365.13	901.80	0.26	0.07
6.10	12	SLE Q	5	1	330.00	-22760.00	-4087.41	0.00	43.00	147.00	0.50	20.00	139.19	9.42	250.67	205.85	0.06	0.01
6.10	11	SLE F	5	1	330.00	-23134.80	-4298.84	0.00	43.00	147.00	0.50	20.00	141.18	9.42	260.03	232.55	0.07	0.02
6.35	12	SLE Q	6	1	0.00	-16021.30	-7913.74	0.00	43.00	147.00	0.50	20.00	171.68	9.42	403.76	1135.57	0.33	0.10
6.35	11	SLE F	6	1	0.00	-16396.00	-8165.34	0.00	43.00	147.00	0.50	20.00	171.80	9.42	404.32	1175.92	0.34	0.10
6.35	12	SLE Q	6	1	0.00	-16021.30	-7913.74	0.00	43.00	147.00	0.50	20.00	171.68	9.42	403.76	1135.57	0.33	0.10
6.35	11	SLE F	6	1	0.00	-16396.00	-8165.34	0.00	43.00	147.00	0.50	20.00	171.80	9.42	404.32	1175.92	0.34	0.10
7.10	12	SLE Q	6	1	75.00	-15646.30	-10290.00	0.00	43.00	147.00	0.50	20.00	175.21	9.42	420.38	1642.78	0.51	0.15
7.10	11	SLE F	6	1	75.00	-16021.00	-10641.50	0.00	43.00	147.00	0.50	20.00	175.31	9.42	420.86	1704.10	0.50	0.15

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.50	0.35	248.27	2.50	30713.30	48483.90	30713.30	0.40	0.45	339.20	2.50	39564.40	49965.00	39564.40	>100
0.00	0.50	ø8/10	2	2	1	SLV	0.50	0.35	1001.47	2.50	30713.30	48014.70	30713.30	0.40	0.45	1084.52	2.50	39564.40	49481.40	39564.40	30.668
0.00	0.50	ø8/10	2	2	7(TG)	SLV	0.50	0.35	19013.40	2.50	30713.30	50312.40	30713.30	0.40	0.45	0.00	2.50	39564.40	51849.30	39564.40	1.615
0.50	2.00	ø8/15	2	2	9	SLU	0.50	0.35	248.27	2.50	20475.50	50071.80	20475.50	0.40	0.45	2045.69	2.50	26376.30	51601.40	26376.30	12.894
0.50	2.00	ø8/15	2	2	1	SLV	0.50	0.35	1001.47	2.50	20475.50	48971.80	20475.50	0.40	0.45	3199.85	2.50	26376.30	50467.70	26376.30	8.243
0.50	2.00	ø8/15	2	2	7(TG)	SLV	0.50	0.35	19013.40	2.50	20475.50	50312.40	20475.50	0.40	0.45	0.00	2.50	26376.30	51849.30	26376.30	1.077
2.00	2.50	ø8/10	2	2	9	SLU	0.50	0.35	555.24	2.50	30713.30	52395.40	30713.30	0.40	0.45	2045.69	2.50	39564.40	53995.90	39564.40	19.340
2.00	2.50	ø8/10	2	2	1	SLV	0.50	0.35	7787.60	2.50	30713.30	50451.90	30713.30	0.40	0.45	5447.48	2.50	39564.40	51993.00	39564.40	3.944
2.00	2.50	ø8/10	2	2	7(TG)	SLV	0.50	0.35	19013.40	2.50	30713.30	50312.40	30713.30	0.40	0.45	0.00	2.50	39564.40	51849.30	39564.40	1.615
2.80	3.35	ø8/10	2	2	9	SLU	0.50	0.35	118.89	2.50	30713.30	51982.20	30713.30	0.40	0.45	6050.89	2.50	39564.40	53570.20	39564.40	6.539
2.80	3.35	ø8/10	2	2	1	SLV	0.50	0.35	1924.24	2.50	30713.30	50309.60	30713.30	0.40	0.45	5939.26	2.50	39564.40	51846.40	39564.40	6.662
3.35	5.55	ø8/15	2	2	9	SLU	0.50	0.35	118.89	2.50	20475.50	51934.10	20475.50	0.40	0.45	6050.89	2.50	26376.30	53520.60	26376.30	4.359
3.35	5.55	ø8/15	2	2	1	SLV	0.50	0.35	1924.24	2.50	20475.50	50272.50	20475.50	0.40	0.45	5939.26	2.50	26376.30	51808.30	26376.30	4.441
5.55	6.10	ø8/10	2	2	9	SLU	0.50	0.35	118.89	2.50	30713.30	51741.60	30713.30	0.40	0.45	6050.89	2.50	39564.40	53322.20	39564.40	6.539
5.55	6.10	ø8/10	2	2	1	SLV	0.50	0.35	1924.24	2.50	30713.30	50124.50	30713.30	0.40	0.45	5939.26	2.50	39564.40	51655.70	39564.40	6.662
6.35	7.10	ø8/10	2	2	9	SLU	0.50	0.35	20.76	2.50	30713.30	50295.50	30713.30	0.40	0.45	5312.84	2.50	39564.40	51831.90	39564.40	7.447
6.35	7.10	ø8/10	2	2	3(TG)	SND	0.50	0.35	1230.48	2.50	30713.30	49336.80	30713.30	0.40	0.45	4936.13	2.50	39564.40	50844.00	39564.40	8.015

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.44497 ω_{wd}=0.15055 $\mu\Phi_d$=14.1813 ν_d=0.024832 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=60.8309
  0.06699 >= -0.01122 [7.4.29]
- CC=1 α_e=0.44497 ω_{wd}=0.15055 $\mu\Phi_d$=22.5728 ν_d=0.024832 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=58.02
  0.06699 >= 0.00468 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>

109	N	ø8/10	Z-	E	2	11.44	13.45	0.50	0.39	0.20	3.02
209	N	ø8/ 8	Y+	I	2	4.02	4.02	0.50	0.29	0.15	3.02
			Y-	I	2	4.02	4.02	0.50	0.29	0.15	3.02
309	N	ø12/ 5	Y+	I	2	4.02	4.02	0.50	0.29	0.20	13.57
			Y-	I	2	4.02	4.02	0.50	0.29	0.20	13.57
			Z-	E	2	12.57	11.44	0.50	0.39	0.20	13.57

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
109	Z-	1	SLV	-5939.26	43282.70	6.65	6.96	132462.00	53552.00	118015.00	---	---
		1	SLV	-5939.26	43282.70	7.38	7.69	131080.00	44354.50	118015.00	---	---
209	Y+	1	SLV	-1203.25	33414.40	4.24	6.17	129100.00	107532.00	157353.00	---	---
		1	SLV	-1203.25	33414.40	4.97	6.91	128122.00	93624.10	157353.00	---	---
	Y-	1	SLV	-1203.25	33414.40	4.24	6.17	129100.00	107532.00	157353.00	---	---
		1	SLV	-1203.25	33414.40	4.97	6.91	128122.00	93624.10	157353.00	---	---
309	Y+	1	SLV	0.00	34617.60	0.00	4.13	130971.00	289553.00	531066.00	---	---
	Y-	1	SLV	0.00	34617.60	0.00	4.13	130971.00	289553.00	531066.00	---	---
	Z-	1	SLV	0.00	54090.00	0.00	4.13	141412.00	434808.00	531066.00	---	---

Pilastrata n. 10

Nodi: 10 110 310

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	40.00	50.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
1	R	40.00	50.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1(e)	SLV	1	1	0.00	-64299.40	952.79		1285.99	0.00		0.00	-226230.00	22942.30	0.00	3.518
0.00	1(e)	SLV	1	1	0.00	-64299.40	952.79		1285.99	0.00		0.00	-226230.00	22942.30	0.00	3.518
2.50	7(α)	SLV	1	1	250.00	-62703.40	3074.63	6.88	21153.80	0.00	12.33	0.00	-62703.40	22834.90	0.00	1.079
2.80	7(α)	SLV	2	1	0.00	-31039.90	0.00	15.30	0.00	-907.16	15.76	-14299.20	-31039.90	0.00	-16496.80	1.154
2.80	7(α)	SLV	2	1	0.00	-31039.90	0.00	15.30	0.00	-907.16	15.76	-14299.20	-31039.90	0.00	-16496.80	1.154
7.10	1	SLV	2	1	430.00	-28545.30	8130.36		8130.36	0.00		0.00	-28545.30	20388.60	0.00	2.508

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	1	SND	2	1	0.00	-30332.30	-9685.92	-9685.92	0.00	0.00	-30332.30	-16216.10	0.00	1.674
2.80	1	SND	2	1	0.00	-30332.30	-9685.92	-9685.92	0.00	0.00	-30332.30	-16216.10	0.00	1.674

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-74228.90	0.00	-1021.47	0.00	31.42	34.81	507.03
0.00	12	SLE Q	1	1	0.00	-64015.10	0.00	-1060.39	0.00	31.42	30.86	447.18
0.00	10	SLE R	1	1	0.00	-74228.90	0.00	-1021.47	0.00	31.42	34.81	507.03
0.00	12	SLE Q	1	1	0.00	-64015.10	0.00	-1060.39	0.00	31.42	30.86	447.18
2.50	10	SLE R	1	1	250.00	-72978.90	0.00	3142.08	0.00	31.42	44.23	616.67
2.50	12	SLE Q	1	1	250.00	-62765.10	0.00	2732.81	0.00	31.42	38.18	532.05
2.80	10	SLE R	2	1	0.00	-35515.00	0.00	-3141.04	0.00	31.42	29.06	389.24
2.80	12	SLE Q	2	1	0.00	-31040.50	0.00	-2740.02	0.00	31.42	25.38	339.91
2.80	10	SLE R	2	1	0.00	-35515.00	0.00	-3141.04	0.00	31.42	29.06	389.24
2.80	12	SLE Q	2	1	0.00	-31040.50	0.00	-2740.02	0.00	31.42	25.38	339.91
7.10	10	SLE R	2	1	430.00	-33365.00	0.00	3627.45	9.42	21.99	30.81	406.43
7.10	12	SLE Q	2	1	430.00	-28890.50	0.00	3243.36	9.42	21.99	27.26	358.56

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø10/ 5	2	2	9	SLU	0.50	0.35	445.46	1.73	73655.30	73655.30	73655.30	0.40	0.45	2303.36	1.48	81228.70	81228.70	81228.70	35.265
0.00	0.50	ø10/ 5	2	2	1(TG)	SLV	0.50	0.35	0.00	1.66	70895.00	70895.00	70895.00	0.40	0.45	28788.90	1.42	77900.00	77900.00	77900.00	2.706
0.00	0.50	ø10/ 5	2	2	1(TG)	SLV	0.50	0.35	24206.30	1.66	70894.90	70894.90	70894.90	0.40	0.45	0.00	1.42	77899.90	77899.90	77899.90	2.929
0.50	2.00	ø8/15	2	2	9	SLU	0.50	0.35	445.46	2.50	20475.50	58564.10	20475.50	0.40	0.45	2303.36	2.50	26376.30	60353.10	26376.30	11.451
0.50	2.00	ø8/15	2	2	1(TG)	SLV	0.50	0.35	12076.70	2.50	20475.50	55338.60	20475.50	0.40	0.45	14420.90	2.50	26376.30	57029.10	26376.30	1.695
2.00	2.50	ø8/10	2	2	9	SLU	0.50	0.35	445.46	2.50	30713.30	58564.10	30713.30	0.40	0.45	2303.36	2.50	39564.40	60353.10	39564.40	17.177
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	55338.70	30713.30	0.40	0.45	28788.90	2.50	39564.40	57029.20	39564.40	1.374
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	24206.30	2.50	30713.30	55338.60	30713.30	0.40	0.45	0.00	2.50	39564.40	57029.10	39564.40	1.269
2.80	3.52	ø8/10	2	2	9	SLU	0.50	0.35	102.94	2.50	30713.30	53553.40	30713.30	0.40	0.45	2213.30	2.50	39564.40	55189.30	39564.40	17.876
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50787.10	30713.30	0.40	0.45	15007.80	2.50	39564.40	52338.60	39564.40	2.636
2.80	3.52	ø8/10	2	2	3(TG)	SLV	0.50	0.35	12003.70	2.50	30713.30	50779.10	30713.30	0.40	0.45	0.00	2.50	39564.40	52330.30	39564.40	2.559
3.52	6.38	ø8/15	2	2	9	SLU	0.50	0.35	102.94	2.50	20475.50	53490.70	20475.50	0.40	0.45	2213.30	2.50	26376.30	55124.70	26376.30	11.917
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	20475.50	50787.10	20475.50	0.40	0.45	15007.80	2.50	26376.30	52338.60	26376.30	1.758
3.52	6.38	ø8/15	2	2	3(TG)	SLV	0.50	0.35	12003.70	2.50	20475.50	50779.10	20475.50	0.40	0.45	0.00	2.50	26376.30	52330.30	26376.30	1.706
6.38	7.10	ø8/10	2	2	9	SLU	0.50	0.35	102.94	2.50	30713.30	53239.80	30713.30	0.40	0.45	2213.30	2.50	39564.40	54866.20	39564.40	17.876
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50787.10	30713.30	0.40	0.45	15007.80	2.50	39564.40	52338.60	39564.40	2.636
6.38	7.10	ø8/10	2	2	3(TG)	SLV	0.50	0.35	12003.70	2.50	30713.30	50779.10	30713.30	0.40	0.45	0.00	2.50	39564.40	52330.30	39564.40	2.559

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.5304 ω_{Wd}=0.5256 $\mu\Phi_d$=14.1813 ν_d=0.18474 $E_{sy,d}$=0.0018995 b_c/b_0=1.19048 $\mu\Phi_c$=25.0359
  0.27878 >= 0.14274 [7.4.29]

- CC=1 α_e=0.5304 ω_{wd}=0.5256 $\mu\Phi_d$=22.5728 v_d=0.18474 $E_{sy,d}$=0.0018995 b_c/b_0=1.25 $\mu\Phi_c$=23.8437
  0.27878 >= 0.26205 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
110	S	ø10/10	Y+	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z+	I	2	27.14	16.59	0.50	0.39	0.20	4.71
			Y-	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z-	I	2	27.14	16.59	0.50	0.39	0.20	4.71
310	S	ø10/10	Y+	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z+	I	2	25.13	14.58	0.50	0.39	0.20	4.71
			Y-	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z-	I	2	25.13	14.58	0.50	0.39	0.20	4.71

Pilastrata n. 11

Nodi: 11 111 311

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	40.00	50.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
1	R	40.00	50.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-64318.60	2395.83		2395.83	0.00		0.00	-226230.00	26334.20	0.00	3.517
0.00	5	SLV	1	1	0.00	-64318.60	2395.83		2395.83	0.00		0.00	-226230.00	26334.20	0.00	3.517
2.50	7(α)	SLV	1	1	250.00	-62239.40	-2916.86	6.40	-18667.80	0.00	11.08	0.00	-62239.40	-26194.20	0.00	1.403
2.80	3(α)	SLV	2	1	0.00	-30666.30	-2338.63	9.97	-23307.20	0.00	44.78	0.00	-30666.30	-23936.70	0.00	1.027
2.80	3(α)	SLV	2	1	0.00	-30666.30	-2338.63	9.97	-23307.20	0.00	44.78	0.00	-30666.30	-23936.70	0.00	1.027
7.10	1	SLV	2	1	430.00	-28393.90	-8852.71		-8852.71	0.00		0.00	-28393.90	-23767.50	0.00	2.685

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	1	SND	2	1	0.00	-30056.20	-15959.50	-15959.50	0.00	0.00	-30056.20	-19353.20	0.00	1.213
2.80	1	SND	2	1	0.00	-30056.20	-15959.50	-15959.50	0.00	0.00	-30056.20	-19353.20	0.00	1.213

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-74007.80	0.00	1630.90	0.00	37.70	35.99	517.10
0.00	12	SLE Q	1	1	0.00	-63810.40	0.00	1444.40	0.00	37.70	31.20	447.83
0.00	10	SLE R	1	1	0.00	-74007.80	0.00	1630.90	0.00	37.70	35.99	517.10
0.00	12	SLE Q	1	1	0.00	-63810.40	0.00	1444.40	0.00	37.70	31.20	447.83
2.50	10	SLE R	1	1	250.00	-72757.80	0.00	-2914.21	0.00	37.70	41.12	576.19
2.50	12	SLE Q	1	1	250.00	-62560.40	0.00	-2480.10	0.00	37.70	35.24	494.11
2.80	10	SLE R	2	1	0.00	-35481.10	0.00	3811.09	0.00	37.70	30.72	406.66
2.80	12	SLE Q	2	1	0.00	-31004.40	0.00	3290.48	0.00	37.70	26.64	353.06
2.80	10	SLE R	2	1	0.00	-35481.10	0.00	3811.09	0.00	37.70	30.72	406.66
2.80	12	SLE Q	2	1	0.00	-31004.40	0.00	3290.48	0.00	37.70	26.64	353.06
7.10	10	SLE R	2	1	430.00	-33331.10	0.00	-4282.23	12.57	25.13	32.58	424.56
7.10	12	SLE Q	2	1	430.00	-28854.40	0.00	-3750.66	12.57	25.13	28.45	370.29

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø10/ 5	2	2	9	SLU	0.50	0.35	558.67	1.85	71037.70	71037.70	71037.70	0.40	0.45	2626.42	1.59	78803.90	78803.90	78803.90	30.004
0.00	0.50	ø10/ 5	2	2	1(TG)	SLV	0.50	0.35	0.00	1.78	68458.00	68458.00	68458.00	0.40	0.45	33046.90	1.53	75712.10	75712.10	75712.10	2.291
0.00	0.50	ø10/ 5	2	2	5(TG)	SLV	0.50	0.35	25491.90	1.78	68465.90	68465.90	68465.90	0.40	0.45	0.00	1.53	75721.60	75721.60	75721.60	2.686
0.50	2.00	ø8/15	2	2	9	SLU	0.50	0.35	558.67	2.50	20475.50	58564.10	20475.50	0.40	0.45	2626.42	2.50	26376.30	60353.10	26376.30	10.043
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.50	0.35	12725.50	2.50	20475.50	55341.60	20475.50	0.40	0.45	16552.90	2.50	26376.30	57032.10	26376.30	1.593
0.50	2.00	ø8/15	2	2	1(TG)	SLV	0.50	0.35	12764.00	2.50	20475.50	55331.90	20475.50	0.40	0.45	16497.10	2.50	26376.30	57022.20	26376.30	1.599
2.00	2.50	ø8/10	2	2	9	SLU	0.50	0.35	558.67	2.50	30713.30	58564.10	30713.30	0.40	0.45	2626.42	2.50	39564.40	60353.10	39564.40	15.064
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	55331.90	30713.30	0.40	0.45	33046.90	2.50	39564.40	57022.20	39564.40	1.197
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.50	0.35	25491.90	2.50	30713.30	55341.60	30713.30	0.40	0.45	0.00	2.50	39564.40	57032.10	39564.40	1.205
2.80	3.52	ø8/10	2	2	9	SLU	0.50	0.35	83.98	2.50	30713.30	53546.30	30713.30	0.40	0.45	2672.90	2.50	39564.40	55182.00	39564.40	14.802
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50797.80	30713.30	0.40	0.45	17493.50	2.50	39564.40	52349.60	39564.40	2.262
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.50	0.35	13366.50	2.50	30713.30	50798.00	30713.30	0.40	0.45	0.00	2.50	39564.40	52349.80	39564.40	2.298
3.52	6.38	ø8/15	2	2	9	SLU	0.50	0.35	83.98	2.50	20475.50	53483.60	20475.50	0.40	0.45	2672.90	2.50	26376.30	55117.40	26376.30	9.868
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	20475.50	50797.80	20475.50	0.40	0.45	17493.50	2.50	26376.30	52349.60	26376.30	1.508
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.50	0.35	13366.50	2.50	20475.50	50798.00	20475.50	0.40	0.45	0.00	2.50	26376.30	52349.80	26376.30	1.532
6.38	7.10	ø8/10	2	2	9	SLU	0.50	0.35	83.98	2.50	30713.30	53232.80	30713.30	0.40	0.45	2672.90	2.50	39564.40	54858.90	39564.40	14.802
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.50	0.35	0.00	2.50	30713.30	50797.80	30713.30	0.40	0.45	17493.50	2.50	39564.40	52349.60	39564.40	2.262
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.50	0.35	13366.50	2.50	30713.30	50798.00	30713.30	0.40	0.45	0.00	2.50	39564.40	52349.80	39564.40	2.298

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.61305 ω_{wd}=0.58342 $\mu\Phi_d$=14.1813 v_d=0.1848 $E_{sy,d}$=0.0018995 b_c/b_0=1.19048 $\mu\Phi_c$=31.3209
  0.35767 >= 0.14279 [7.4.29]
- CC=5 α_e=0.61305 ω_{wd}=0.58342 $\mu\Phi_d$=22.5728 v_d=0.1848 $E_{sy,d}$=0.0018995 b_c/b_0=1.25 $\mu\Phi_c$=29.8294
  0.35767 >= 0.26214 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
111	S	ø10/10	Y+	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z+	I	2	26.01	16.59	0.50	0.39	0.20	4.71
			Y-	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z-	I	2	26.01	16.59	0.50	0.39	0.20	4.71
311	S	ø10/10	Y+	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z+	I	2	25.13	14.58	0.50	0.39	0.20	4.71
			Y-	I	2	6.03	6.03	0.50	0.29	0.20	4.71
			Z-	I	2	25.13	14.58	0.50	0.39	0.20	4.71

Pilastrata n. 12

Nodi: 12 -952 -1071 -1190 112 212 312

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	40.00	50.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
1	R	40.00	50.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	1	0.00	-10990.80	8636.03		8636.03	0.00		0.00	-10990.80	18784.00	0.00	2.175
0.00	9	SLU	1	1	0.00	-10990.80	8636.03		8636.03	0.00		0.00	-10990.80	18784.00	0.00	2.175
0.93	9	SLU	1	1	93.33	-10384.10	8392.87		8392.87	0.00		0.00	-10384.10	18711.20	0.00	2.229
0.93	9	SLU	2	1	0.00	-15222.10	8060.54		8060.54	0.00		0.00	-15222.10	19288.00	0.00	2.393
1.62	9	SLU	2	1	68.33	-14777.90	6550.56		6550.56	0.00		0.00	-14777.90	19236.10	0.00	2.937
1.62	9	SLU	3	1	0.00	-21616.50	6064.27		6064.27	0.00		0.00	-21616.50	19869.70	0.00	3.277
2.30	1	SLV	3	1	68.33	-12281.90	5177.83		5177.83	0.00		0.00	-12281.90	18939.50	0.00	3.658
2.30	1	SLV	4	1	0.00	-21509.00	4609.37		4609.37	0.00		0.00	-21509.00	19861.70	0.00	4.309
2.50	1(α)	SLV	4	1	20.00	-21409.00	5479.06	1.30	7122.78	0.00	1.00	0.00	-21409.00	19854.40	0.00	2.787
2.80	1(α)	SLV	5	1	0.00	-18938.60	-13420.60	1.30	-17446.80	0.00	1.00	0.00	-18938.60	-19669.80	0.00	1.127
2.80	1(α)	SLV	5	1	0.00	-18938.60	-13420.60	1.30	-17446.80	0.00	1.00	0.00	-18938.60	-19669.80	0.00	1.127
6.10	9	SLU	5	1	330.00	-29299.20	9508.94		9508.94	0.00		0.00	-29299.20	20444.70	0.00	2.150
6.35	9	SLU	6	1	0.00	-25445.70	11207.00		11207.00	0.00		0.00	-25445.70	20157.20	0.00	1.799
6.35	9	SLU	6	1	0.00	-25445.70	11207.00		11207.00	0.00		0.00	-25445.70	20157.20	0.00	1.799
7.10	9	SLU	6	1	75.00	-24958.20	16295.90		16295.90	0.00		0.00	-24958.20	20120.80	0.00	1.235

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-7837.25	0.00	6169.50	21.99	9.42	46.04	1035.48
0.00	12	SLE Q	1	1	0.00	-7054.62	0.00	5703.49	21.99	9.42	42.54	963.55
0.00	10	SLE R	1	1	0.00	-7837.25	0.00	6169.50	21.99	9.42	46.04	1035.48
0.00	12	SLE Q	1	1	0.00	-7054.62	0.00	5703.49	21.99	9.42	42.54	963.55
0.93	10	SLE R	1	1	93.33	-7370.58	0.00	5980.32	21.99	9.42	44.60	1011.19
0.93	12	SLE Q	1	1	93.33	-6587.96	0.00	5448.25	21.99	9.42	40.61	925.41
0.93	10	SLE R	2	1	0.00	-10797.40	0.00	5736.79	15.71	15.71	43.23	849.08
0.93	12	SLE Q	2	1	0.00	-9589.94	0.00	5191.24	15.71	15.71	39.10	774.10
1.62	10	SLE R	2	1	68.33	-10455.80	0.00	4641.42	15.71	15.71	35.14	632.84
1.62	12	SLE Q	2	1	68.33	-9248.27	0.00	4092.28	15.71	15.71	30.99	557.05
1.62	10	SLE R	3	1	0.00	-15292.10	0.00	4289.02	15.71	15.71	32.82	419.42
1.62	12	SLE Q	3	1	0.00	-13492.00	0.00	3740.71	15.71	15.71	28.63	361.56
2.30	10	SLE R	3	1	68.33	-14950.40	0.00	3375.32	15.71	15.71	25.96	312.99
2.30	12	SLE Q	3	1	68.33	-13150.40	0.00	2776.09	15.71	15.71	21.39	260.36
2.30	10	SLE R	4	1	0.00	-26013.70	0.00	2913.09	9.42	21.99	24.50	322.38
2.30	12	SLE Q	4	1	0.00	-22857.20	0.00	2372.77	0.00	31.42	20.49	271.32
2.50	10	SLE R	4	1	20.00	-25913.70	0.00	3021.23	9.42	21.99	25.10	329.04
2.50	12	SLE Q	4	1	20.00	-22757.20	0.00	2348.77	0.00	31.42	20.33	269.29
2.80	10	SLE R	5	1	0.00	-22285.80	0.00	-9197.60	15.71	15.71	69.77	1205.70
2.80	12	SLE Q	5	1	0.00	-20322.00	0.00	-7849.99	15.71	15.71	59.64	989.38
2.80	10	SLE R	5	1	0.00	-22285.80	0.00	-9197.60	15.71	15.71	69.77	1205.70
2.80	12	SLE Q	5	1	0.00	-20322.00	0.00	-7849.99	15.71	15.71	59.64	989.38
6.10	10	SLE R	5	1	330.00	-20635.80	0.00	6715.18	15.71	15.71	51.23	749.99
6.10	12	SLE Q	5	1	330.00	-18672.00	0.00	5663.97	15.71	15.71	43.27	596.31
6.35	10	SLE R	6	1	0.00	-17925.90	0.00	7914.71	15.71	15.71	59.93	1076.14
6.35	12	SLE Q	6	1	0.00	-15962.80	0.00	6682.43	15.71	15.71	50.67	883.01
6.35	10	SLE R	6	1	0.00	-17925.90	0.00	7914.71	15.71	15.71	59.93	1076.14
6.35	12	SLE Q	6	1	0.00	-15962.80	0.00	6682.43	15.71	15.71	50.67	883.01
7.10	10	SLE R	6	1	75.00	-17550.90	0.00	11509.70	15.71	15.71	86.28	1835.87
7.10	12	SLE Q	6	1	75.00	-15587.80	0.00	9735.48	15.71	15.71	73.07	1528.79

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-7054.62	5703.49	0.00	43.00	147.00	0.50	20.00	177.08	9.42	429.23	963.55	0.28	0.08
0.00	11	SLE F	1	1	0.00	-7227.76	5799.40	0.00	43.00	147.00	0.50	20.00	177.02	9.42	428.94	977.95	0.28	0.09
0.00	12	SLE Q	1	1	0.00	-7054.62	5703.49	0.00	43.00	147.00	0.50	20.00	177.08	9.42	429.23	963.55	0.28	0.08
0.00	11	SLE F	1	1	0.00	-7227.76	5799.40	0.00	43.00	147.00	0.50	20.00	177.02	9.42	428.94	977.95	0.28	0.09
0.93	12	SLE Q	1	1	93.33	-6587.96	5448.25	0.00	43.00	147.00	0.50	20.00	177.26	9.42	430.07	925.41	0.27	0.08
0.93	11	SLE F	1	1	93.33	-6761.10	5568.67	0.00	43.00	147.00	0.50	20.00	177.23	9.42	429.92	944.96	0.28	0.08
0.93	12	SLE Q	2	1	0.00	-9589.94	5191.24	0.00	43.00	147.00	0.50	20.00	172.95	9.42	409.74	774.10	0.23	0.07
0.93	11	SLE F	2	1	0.00	-9859.81	5318.76	0.00	43.00	147.00	0.50	20.00	172.90	9.42	409.52	792.02	0.23	0.07
1.62	12	SLE Q	2	1	68.33	-9248.27	4092.28	0.00	43.00	147.00	0.50	20.00	169.94	9.42	395.57	557.05	0.16	0.05
1.62	11	SLE F	2	1	68.33	-9518.14	4232.24	0.00	43.00	147.00	0.50	20.00	170.02	9.42	395.96	577.54	0.17	0.05

1.62	12	SLE Q	3	1	0.00	-13492.00	3740.71	0.00	43.00	147.00	0.50	20.00	158.80	9.42	343.07	361.56	0.11	0.03
1.62	11	SLE F	3	1	0.00	-13895.60	3884.00	0.00	43.00	147.00	0.50	20.00	159.06	9.42	344.31	378.51	0.11	0.03
2.30	12	SLE Q	3	1	68.33	-13150.40	2776.09	0.00	43.00	147.00	0.50	20.00	147.89	9.42	291.67	189.08	0.06	0.01
2.30	11	SLE F	3	1	68.33	-13554.00	2946.15	0.00	43.00	147.00	0.50	20.00	149.28	9.42	298.19	210.05	0.06	0.02
2.80	12	SLE Q	5	1	0.00	-20322.00	-7849.99	0.00	43.00	147.00	0.50	20.00	167.41	9.42	383.65	989.38	0.29	0.08
2.80	11	SLE F	5	1	0.00	-20691.90	-8141.49	0.00	43.00	147.00	0.50	20.00	167.78	9.42	385.40	1037.78	0.30	0.09
2.80	12	SLE Q	5	1	0.00	-20322.00	-7849.99	0.00	43.00	147.00	0.50	20.00	167.41	9.42	383.65	989.38	0.29	0.08
2.80	11	SLE F	5	1	0.00	-20691.90	-8141.49	0.00	43.00	147.00	0.50	20.00	167.78	9.42	385.40	1037.78	0.30	0.09
6.10	12	SLE Q	5	1	330.00	-18672.00	5663.97	0.00	43.00	147.00	0.50	20.00	161.55	9.42	356.04	596.31	0.17	0.05
6.10	11	SLE F	5	1	330.00	-19041.90	5854.23	0.00	43.00	147.00	0.50	20.00	161.93	9.42	357.83	623.64	0.18	0.05
6.35	12	SLE Q	6	1	0.00	-15962.80	6682.43	0.00	43.00	147.00	0.50	20.00	168.96	9.42	390.97	883.01	0.26	0.07
6.35	11	SLE F	6	1	0.00	-16332.50	6909.24	0.00	43.00	147.00	0.50	20.00	169.15	9.42	391.86	918.28	0.27	0.08
6.35	12	SLE Q	6	1	0.00	-15962.80	6682.43	0.00	43.00	147.00	0.50	20.00	168.96	9.42	390.97	883.01	0.26	0.07
6.35	11	SLE F	6	1	0.00	-16332.50	6909.24	0.00	43.00	147.00	0.50	20.00	169.15	9.42	391.86	918.28	0.27	0.08
7.10	12	SLE Q	6	1	75.00	-15587.80	9735.48	0.00	43.00	147.00	0.50	20.00	174.66	9.42	417.80	1528.79	0.45	0.13
7.10	11	SLE F	6	1	75.00	-15957.50	10071.20	0.00	43.00	147.00	0.50	20.00	174.77	9.42	418.34	1586.95	0.46	0.14

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.50	0.35	344.82	2.50	30713.30	48330.80	30713.30	0.40	0.45	260.53	2.50	39564.40	49807.20	39564.40	89.069
0.00	0.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	9952.13	2.50	30713.30	50082.20	30713.30	0.40	0.45	11534.80	2.50	39564.40	51612.10	39564.40	3.086
0.00	0.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	18886.20	2.50	30713.30	50082.20	30713.30	0.40	0.45	0.00	2.50	39564.40	51612.10	39564.40	1.626
0.50	2.00	ø8/15	2	2	9	SLU	0.50	0.35	344.82	2.50	20475.50	49727.60	20475.50	0.40	0.45	1824.24	2.50	26376.30	51246.60	26376.30	14.459
0.50	2.00	ø8/15	2	2	3(TG)	SLV	0.50	0.35	9952.13	2.50	20475.50	50082.20	20475.50	0.40	0.45	11534.80	2.50	26376.30	51612.10	26376.30	2.057
0.50	2.00	ø8/15	2	2	3(TG)	SLV	0.50	0.35	18886.20	2.50	20475.50	50082.20	20475.50	0.40	0.45	0.00	2.50	26376.30	51612.10	26376.30	1.084
2.00	2.50	ø8/10	2	2	9	SLU	0.50	0.35	383.69	2.50	30713.30	51792.40	30713.30	0.40	0.45	1824.24	2.50	39564.40	53374.50	39564.40	21.688
2.00	2.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	9952.13	2.50	30713.30	50082.20	30713.30	0.40	0.45	11534.80	2.50	39564.40	51612.10	39564.40	3.086
2.00	2.50	ø8/10	2	2	3(TG)	SLV	0.50	0.35	18886.20	2.50	30713.30	50082.20	30713.30	0.40	0.45	0.00	2.50	39564.40	51612.10	39564.40	1.626
2.80	3.35	ø8/10	2	2	9	SLU	0.50	0.35	69.00	2.50	30713.30	51084.10	30713.30	0.40	0.45	6825.88	2.50	39564.40	52644.60	39564.40	5.796
2.80	3.35	ø8/10	2	2	1	SLV	0.50	0.35	953.25	2.50	30713.30	49773.10	30713.30	0.40	0.45	6247.73	2.50	39564.40	51293.50	39564.40	6.333
2.80	3.35	ø8/10	2	2	5	SLV	0.50	0.35	1003.95	2.50	30713.30	49667.60	30713.30	0.40	0.45	4974.97	2.50	39564.40	51184.80	39564.40	7.953
3.35	5.55	ø8/15	2	2	9	SLU	0.50	0.35	69.00	2.50	20475.50	51035.90	20475.50	0.40	0.45	6825.88	2.50	26376.30	52595.00	26376.30	3.864
3.35	5.55	ø8/15	2	2	1	SLV	0.50	0.35	953.25	2.50	20475.50	49736.10	20475.50	0.40	0.45	6247.73	2.50	26376.30	51255.40	26376.30	4.222
3.35	5.55	ø8/15	2	2	5	SLV	0.50	0.35	1003.96	2.50	20475.50	49630.60	20475.50	0.40	0.45	4974.97	2.50	26376.30	51146.70	26376.30	5.302
5.55	6.10	ø8/10	2	2	9	SLU	0.50	0.35	69.00	2.50	30713.30	50843.40	30713.30	0.40	0.45	6825.88	2.50	39564.40	52396.60	39564.40	5.796
5.55	6.10	ø8/10	2	2	1	SLV	0.50	0.35	953.25	2.50	30713.30	49588.00	30713.30	0.40	0.45	6247.73	2.50	39564.40	51102.80	39564.40	6.333
5.55	6.10	ø8/10	2	2	5	SLV	0.50	0.35	1003.96	2.50	30713.30	49482.50	30713.30	0.40	0.45	4974.97	2.50	39564.40	50994.10	39564.40	7.953
6.35	7.10	ø8/10	2	2	9	SLU	0.50	0.35	40.28	2.50	30713.30	50276.60	30713.30	0.40	0.45	6785.20	2.50	39564.40	51812.40	39564.40	5.831
6.35	7.10	ø8/10	2	2	3(TG)	SND	0.50	0.35	1095.03	2.50	30713.30	49351.20	30713.30	0.40	0.45	7072.87	2.50	39564.40	50858.70	39564.40	5.594

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.44497 ω_{wd}=0.15055 $\mu\Phi_d$=14.1813 ν_d=0.022678 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=66.6096 0.06699 >= -0.01329 [7.4.29]
- CC=5 α_e=0.44497 ω_{wd}=0.15055 $\mu\Phi_d$=22.5728 ν_d=0.022678 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=63.5317 0.06699 >= 0.00124 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
112	N	ø8/10	Z+	E	2	10.30	13.45	0.50	0.39	0.20	3.02
212	N	ø8/ 8	Y+	I	2	4.02	4.02	0.50	0.29	0.15	3.02
			Y-	I	2	4.02	4.02	0.50	0.29	0.15	3.02
312	N	ø12/ 5	Y+	I	2	4.02	4.02	0.50	0.29	0.20	13.57
			Z+	E	2	12.57	11.44	0.50	0.39	0.20	13.57
			Y-	I	2	4.02	4.02	0.50	0.29	0.20	13.57

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
112	Z+	1	SLV	6247.73	38106.10	5.44	6.15	134693.00	23992.80	118015.00	---	---
		1	SLV	6247.73	38106.10	6.24	6.93	133224.00	14916.10	118015.00	---	---
212	Y+	1	SLV	-675.63	33942.00	4.19	4.97	129165.00	116340.00	157353.00	---	---
		1	SLV	-675.63	33942.00	4.98	5.76	128102.00	100698.00	157353.00	---	---
	Y-	1	SLV	-675.63	33942.00	4.19	4.97	129165.00	116340.00	157353.00	---	---
		1	SLV	-675.63	33942.00	4.98	5.76	128102.00	100698.00	157353.00	---	---
312	Y+	1	SLV	0.00	34617.60	0.00	4.08	130971.00	289553.00	531066.00	---	---
	Z+	1	SLV	0.00	54090.00	0.00	4.08	141412.00	434808.00	531066.00	---	---
	Y-	1	SLV	0.00	34617.60	0.00	4.08	130971.00	289553.00	531066.00	---	---

Pilastrata n. 13

Nodi: 13 -963 -1082 -1201 113 213 313

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	6	0.00	-9611.72	-5331.48		-5331.48	0.00		0.00	-9611.72	-13120.80	0.00	2.461
0.00	9	SLU	1	6	0.00	-9611.72	-5331.48		-5331.48	0.00		0.00	-9611.72	-13120.80	0.00	2.461
0.93	9	SLU	1	6	93.33	-9126.39	-5409.21		-5409.21	0.00		0.00	-9126.39	-13074.90	0.00	2.417
0.93	9	SLU	2	6	0.00	-13684.50	-5247.47		-5247.47	0.00		0.00	-13684.50	-13505.10	0.00	2.574
1.62	9	SLU	2	6	68.33	-13329.20	-4799.37		-4799.37	0.00		0.00	-13329.20	-13472.40	0.00	2.807
1.62	9	SLU	3	6	0.00	-19882.10	-4597.70		-4597.70	0.00		0.00	-19882.10	-14049.40	0.00	3.056
2.30	9	SLU	3	6	68.33	-19526.70	-4669.15		-4669.15	0.00		0.00	-19526.70	-14023.50	0.00	3.003

2.30	9	SLU	4	6	0.00	-35988.50	-3759.88		-3759.88	0.00		0.00	-35988.50	-15203.50	0.00	4.044
2.50	1(α)	SLV	4	6	20.00	-21662.50	-4096.23	1.30	-5325.10	0.00	1.00	0.00	-21662.50	-14178.90	0.00	2.663
2.80	1(α)	SLV	5	6	0.00	-22395.80	7412.90	1.30	9636.77	0.00	1.00	0.00	-22395.80	14232.00	0.00	1.477
2.80	1(α)	SLV	5	6	0.00	-22395.80	7412.90	1.30	9636.77	0.00	1.00	0.00	-22395.80	14232.00	0.00	1.477
6.10	3(α)	SLV	5	6	330.00	-21167.90	0.00	1.00	0.00	793.15	10.79	8558.41	-21167.90	0.00	14143.00	1.653
6.35	9	SLU	6	6	0.00	-23464.10	-10388.00		-10388.00	0.00		0.00	-23464.10	-14309.30	0.00	1.377
6.35	9	SLU	6	6	0.00	-23464.10	-10388.00		-10388.00	0.00		0.00	-23464.10	-14309.30	0.00	1.377
7.10	9	SLU	6	6	75.00	-23074.10	-14045.00		-14045.00	0.00		0.00	-23074.10	-14281.30	0.00	1.017

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-6860.51	0.00	-3845.19	18.35	10.30	41.91	822.32
0.00	12	SLE Q	1	6	0.00	-6170.30	0.00	-3643.27	18.35	10.30	39.64	790.55
0.00	10	SLE R	1	6	0.00	-6860.51	0.00	-3845.19	18.35	10.30	41.91	822.32
0.00	12	SLE Q	1	6	0.00	-6170.30	0.00	-3643.27	18.35	10.30	39.64	790.55
0.93	10	SLE R	1	6	93.33	-6487.18	0.00	-3887.67	18.35	10.30	42.28	846.95
0.93	12	SLE Q	1	6	93.33	-5796.96	0.00	-3613.22	18.35	10.30	39.25	795.23
0.93	10	SLE R	2	6	0.00	-9726.92	0.00	-3761.39	14.33	14.33	41.54	702.13
0.93	12	SLE Q	2	6	0.00	-8602.25	0.00	-3443.73	14.33	14.33	37.98	652.93
1.62	10	SLE R	2	6	68.33	-9453.58	0.00	-3421.90	14.33	14.33	37.89	618.75
1.62	12	SLE Q	2	6	68.33	-8328.92	0.00	-3037.55	14.33	14.33	33.62	551.33
1.62	10	SLE R	3	6	0.00	-14106.30	0.00	-3266.83	14.33	14.33	36.84	431.74
1.62	12	SLE Q	3	6	0.00	-12367.80	0.00	-2840.81	14.33	14.33	32.05	372.47
2.30	10	SLE R	3	6	68.33	-13833.00	0.00	-3290.17	14.33	14.33	37.06	445.90
2.30	12	SLE Q	3	6	68.33	-12094.50	0.00	-2717.04	14.33	14.33	30.68	348.48
2.30	10	SLE R	4	6	0.00	-25503.90	0.00	-2645.85	10.30	18.35	32.25	405.73
2.30	12	SLE Q	4	6	0.00	-22248.70	0.00	-2165.89	10.30	18.35	26.83	340.28
2.50	10	SLE R	4	6	20.00	-25423.90	0.00	-3755.04	10.30	18.35	43.42	518.41
2.50	12	SLE Q	4	6	20.00	-22168.70	0.00	-2968.20	10.30	18.35	34.65	420.27
2.80	10	SLE R	5	6	0.00	-25438.70	0.00	5813.90	14.33	14.33	65.60	758.55
2.80	12	SLE Q	5	6	0.00	-22777.10	0.00	4963.47	14.33	14.33	56.12	628.68
2.80	10	SLE R	5	6	0.00	-25438.70	0.00	5813.90	14.33	14.33	65.60	758.55
2.80	12	SLE Q	5	6	0.00	-22777.10	0.00	4963.47	14.33	14.33	56.12	628.68
6.10	10	SLE R	5	6	330.00	-24118.70	0.00	-2399.47	10.30	18.35	29.55	373.79
6.10	12	SLE Q	5	6	330.00	-21457.10	0.00	-2010.61	10.30	18.35	25.19	320.83
6.35	10	SLE R	6	6	0.00	-16525.60	0.00	-7377.47	14.33	14.33	81.04	1462.74
6.35	12	SLE Q	6	6	0.00	-14686.80	0.00	-6200.23	14.33	14.33	68.25	1202.41
6.35	10	SLE R	6	6	0.00	-16525.60	0.00	-7377.47	14.33	14.33	81.04	1462.74
6.35	12	SLE Q	6	6	0.00	-14686.80	0.00	-6200.23	14.33	14.33	68.25	1202.41
7.10	10	SLE R	6	6	75.00	-16225.60	0.00	-9921.41	18.35	10.30	107.83	2172.88
7.10	12	SLE Q	6	6	75.00	-14386.80	0.00	-8360.90	18.35	10.30	91.02	1806.37

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	6	0.00	-6170.30	-3643.27	0.00	43.00	98.69	0.50	18.22	144.99	10.30	333.58	790.55	0.23	0.06
0.00	11	SLE F	1	6	0.00	-6303.64	-3674.33	0.00	43.00	98.69	0.50	18.22	144.91	10.30	333.13	794.49	0.23	0.06
0.00	12	SLE Q	1	6	0.00	-6170.30	-3643.27	0.00	43.00	98.69	0.50	18.22	144.99	10.30	333.58	790.55	0.23	0.06
0.00	11	SLE F	1	6	0.00	-6303.64	-3674.33	0.00	43.00	98.69	0.50	18.22	144.91	10.30	333.13	794.49	0.23	0.06
0.93	12	SLE Q	1	6	93.33	-5796.96	-3613.22	0.00	43.00	98.69	0.50	18.22	145.31	10.30	335.39	795.23	0.23	0.06
0.93	11	SLE F	1	6	93.33	-5930.31	-3664.08	0.00	43.00	98.69	0.50	18.22	145.26	10.30	335.10	804.62	0.23	0.06
0.93	12	SLE Q	2	6	0.00	-8602.25	-3443.73	0.00	43.00	98.69	0.50	18.22	141.97	10.30	316.50	652.93	0.19	0.05
0.93	11	SLE F	2	6	0.00	-8817.83	-3507.35	0.00	43.00	98.69	0.50	18.22	141.90	10.30	316.14	663.10	0.19	0.05
1.62	12	SLE Q	2	6	68.33	-8328.92	-3037.55	0.00	43.00	98.69	0.50	18.22	141.00	10.30	311.02	551.33	0.16	0.04
1.62	11	SLE F	2	6	68.33	-8544.50	-3121.76	0.00	43.00	98.69	0.50	18.22	141.02	10.30	311.13	567.11	0.17	0.04
1.62	12	SLE Q	3	6	0.00	-12367.80	-2840.81	0.00	43.00	98.69	0.50	18.22	133.95	10.30	271.15	372.47	0.11	0.02
1.62	11	SLE F	3	6	0.00	-12698.50	-2937.49	0.00	43.00	98.69	0.50	18.22	134.09	10.30	271.97	387.80	0.11	0.03
2.30	12	SLE Q	3	6	68.33	-12094.50	-2717.04	0.00	43.00	98.69	0.50	18.22	133.48	10.30	268.52	348.48	0.10	0.02
2.30	11	SLE F	3	6	68.33	-12425.10	-2854.14	0.00	43.00	98.69	0.50	18.22	133.95	10.30	271.15	374.24	0.11	0.02
2.80	12	SLE Q	5	6	0.00	-22777.10	4963.47	0.00	43.00	98.69	0.50	18.22	132.82	10.30	264.78	616.85	0.18	0.04
2.80	11	SLE F	5	6	0.00	-23121.50	5187.39	0.00	43.00	98.69	0.50	18.22	133.46	10.30	268.36	664.43	0.19	0.04
2.80	12	SLE Q	5	6	0.00	-22777.10	4963.47	0.00	43.00	98.69	0.50	18.22	132.82	10.30	264.78	616.85	0.18	0.04
2.80	11	SLE F	5	6	0.00	-23121.50	5187.39	0.00	43.00	98.69	0.50	18.22	133.46	10.30	268.36	664.43	0.19	0.04
6.35	12	SLE Q	6	6	0.00	-14686.80	-6200.23	0.00	43.00	98.69	0.50	18.22	142.47	10.30	319.34	1202.41	0.37	0.09
6.35	11	SLE F	6	6	0.00	-15031.20	-6371.35	0.00	43.00	98.69	0.50	18.22	142.51	10.30	319.55	1237.64	0.36	0.09
6.35	12	SLE Q	6	6	0.00	-14686.80	-6200.23	0.00	43.00	98.69	0.50	18.22	142.47	10.30	319.34	1202.41	0.37	0.09
6.35	11	SLE F	6	6	0.00	-15031.20	-6371.35	0.00	43.00	98.69	0.50	18.22	142.51	10.30	319.55	1237.64	0.36	0.09
7.10	12	SLE Q	6	6	75.00	-14386.80	-8360.90	0.00	43.00	98.69	0.50	18.22	144.89	10.30	333.03	1806.37	0.66	0.16
7.10	11	SLE F	6	6	75.00	-14731.20	-8637.77	0.00	43.00	98.69	0.50	18.22	144.95	10.30	333.34	1870.76	0.58	0.14

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	Vsdu,y <daN>	$ctg\theta_{,y}$	VRsd,y <daN>	VRcd,y <daN>	Vrd,y <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	Vsdu,z <daN>	$ctg\theta_{,z}$	VRsd,z <daN>	VRcd,z <daN>	Vrd,z <daN>	Sic.
0.00	0.45	ø8/10	2	2	9	SLU	0.40	0.35	66.34	2.50	30713.30	38774.90	30713.30	0.40	0.35	83.28	2.50	30713.30	38774.90	30713.30	>100
0.00	0.45	ø8/10	2	2	1	SLV	0.40	0.35	610.29	2.50	30713.30	38408.70	30713.30	0.40	0.35	225.58	2.50	30713.30	38408.70	30713.30	50.326
0.00	0.45	ø8/10	2	2	7(TG)	SLV	0.40	0.35	16983.50	2.50	30713.30	40465.80	30713.30	0.40	0.35	0.00	2.50	30713.30	40465.80	30713.30	1.808
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	66.34	2.50	20475.50	40127.10	20475.50	0.40	0.35	104.55	2.50	20475.50	40127.10	20475.50	>100
0.45	2.05	ø8/15	2	2	1	SLV	0.40	0.35	610.29	2.50	20475.50	39186.60	20475.50	0.40	0.35	734.63	2.50	20475.50	39186.60	20475.50	27.872
0.45	2.05	ø8/15	2	2	7(TG)	SLV	0.40	0.35	16983.50	2.50	20475.50	40465.80	20475.50	0.40	0.35	0.00	2.50	20475.50	40465.80	20475.50	1.206
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	812.18	2.50	30713.30	42311.50	30713.30	0.40	0.35	8022.43	2.50	30713.30	42311.50	30713.30	3.828
2.05	2.50	ø8/10	2	2	1	SLV	0.40	0.35	6825.88	2.50	30713.30	40533.30	30713.30	0.40	0.35	6655.44	2.50	30713.30	40533.30	30713.30	4.500
2.05	2.50	ø8/10	2	2	7(TG)	SLV	0.40	0.35	16983.50	2.50	30713.30	40465.80	30713.30	0.40	0.35	0.00	2.50	30713.30	40465.80	30713.30	1.808
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.35	283.27	2.50	30713.30	42285.60	30713.30	0.40	0.35	3588.87	2.50	30713.30	42285.60	30713.30	8.558
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.35	1729.74	2.50	30713.30	40598.40	30713.30	0.40	0.35	3142.84	2.50	30713.30	40598.40	30713.30	9.772
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.35	283.27	2.50	20475.50	42247.10	20475.50	0.40	0.35	3588.87	2.50	20475.50	42247.10	20475.50	5.705
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.35	1729.74	2.50	20475.50	40568.80	20475.50	0.40	0.35	3142.84	2.50	20475.50	40568.80	20475.50	6.515
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.35	283.27	2.50	30713.30	42093.10	30713.30	0.40	0.35	3588.87	2.50	30713.30	42093.10	30713.30	8.558
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.35	1729.74	2.50	30713.30	40450.40	30713.30	0.40	0.35	3142.84	2.50	30713.30	40450.40	30713.30	9.772
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.35	2235.29	2.50	30713.30	40639.60	30713.30	0.40	0.35	4875.99	2.50	30713.30	40639.60	30713.30	6.299

6.35	7.10	ø8/10	2	2	1	SLV	0.40	0.35	3079.63	2.50	30713.30	39524.20	30713.30	0.40	0.35	3452.91	2.50	30713.30	39524.20	30713.30	8.895
6.35	7.10	ø8/10	2	2	5(TG)	SND	0.40	0.35	3597.37	2.50	30713.30	39519.20	30713.30								8.538
6.35	7.10	ø8/10	2	2	5(TG)	SLV								0.40	0.35	0.00	2.50	30713.30	39388.00	30713.30	---

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.51527 ω_{wd}=0.21061 $\mu\Phi_d$=14.1813 ν_d=0.024751 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=81.9121
  0.10852 >= -0.01015 [7.4.29]
- CC=1 α_e=0.51527 ω_{wd}=0.21061 $\mu\Phi_d$=22.5728 ν_d=0.024751 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=81.9121
  0.10852 >= 0.00455 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
113	N	ø8/ 5	Z-	E	2	10.30	13.70	0.50	0.29	0.20	6.03
213	N	ø8/ 8	Y+	I	2	4.02	4.02	0.40	0.29	0.15	3.02
			Y-	I	2	4.02	4.02	0.40	0.29	0.15	3.02
313	N	ø12/ 5	Y+	I	2	4.02	4.02	0.40	0.29	0.20	13.57
			Y-	I	2	4.02	4.02	0.40	0.29	0.20	13.57
			Z-	E	2	10.30	11.44	0.50	0.29	0.20	13.57

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
113	Z-	1	SLV	-3142.84	41211.00	8.04	7.78	96874.40	146169.00	236029.00	---	---
		1	SLV	-3142.84	41211.00	8.32	8.14	96484.10	141378.00	236029.00	---	---
213	Y+	1	SLV	-3079.63	31538.00	5.10	7.57	102358.00	180917.00	196691.00	---	---
		1	SLV	-3079.63	31538.00	5.45	7.84	101977.00	172498.00	196691.00	---	---
	Y-	1	SLV	-3079.63	31538.00	5.10	7.57	102358.00	180917.00	196691.00	---	---
		1	SLV	-3079.63	31538.00	5.45	7.84	101977.00	172498.00	196691.00	---	---
313	Y+	1	SLV	0.00	34617.60	0.00	4.99	104777.00	529653.00	663832.00	---	---
	Y-	1	SLV	0.00	34617.60	0.00	4.99	104777.00	529653.00	663832.00	---	---
	Z-	1	SLV	0.00	44353.80	0.00	4.99	104776.00	563425.00	531066.00	47256.80	53106.60

Pilastrata n. 14

Nodi: 14 114 314

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.70	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	5.10	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1(e)	SLV	1	6	0.00	-58274.40	493.78		1165.49	0.00		0.00	-180984.00	12430.70	0.00	3.106
0.00	1(e)	SLV	1	6	0.00	-58274.40	493.78		1165.49	0.00		0.00	-180984.00	12430.70	0.00	3.106
2.50	3(α)	SLV	1	6	250.00	-56640.40	1555.51	6.73	10470.70	0.00	14.52	0.00	-56640.40	12348.90	0.00	1.179
2.80	1(α)	SLV	2	6	0.00	-27996.90	222.17	15.30	3400.02	0.00	21.46	0.00	-27996.90	9990.35	0.00	2.938
2.80	1(α)	SLV	2	6	0.00	-27996.90	222.17	15.30	3400.02	0.00	21.46	0.00	-27996.90	9990.35	0.00	2.938
7.10	1	SLV	2	6	430.00	-26276.90	5058.69		5058.69	0.00		0.00	-26276.90	9826.55	0.00	1.943

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.50	7	SND	1	6	250.00	-56833.80	-2144.66	-2144.66	0.00	0.00	-278437.00	-10735.50	0.00	4.899
2.80	3	SND	2	6	0.00	-27909.80	7188.26	7188.26	0.00	0.00	-27909.80	8398.51	0.00	1.168
2.80	3	SND	2	6	0.00	-27909.80	7188.26	7188.26	0.00	0.00	-27909.80	8398.51	0.00	1.168

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-67303.70	0.00	-876.93	0.00	16.09	43.47	625.61
0.00	12	SLE Q	1	6	0.00	-57945.10	0.00	-882.59	0.00	16.09	38.43	549.86
0.00	10	SLE R	1	6	0.00	-67303.70	0.00	-876.93	0.00	16.09	43.47	625.61
0.00	12	SLE Q	1	6	0.00	-57945.10	0.00	-882.59	0.00	16.09	38.43	549.86
2.50	10	SLE R	1	6	250.00	-66303.70	0.00	2376.84	0.00	16.09	54.76	749.70
2.50	12	SLE Q	1	6	250.00	-56945.10	0.00	2093.39	0.00	16.09	47.44	648.47
2.80	10	SLE R	2	6	0.00	-32249.00	0.00	-2609.67	0.00	16.09	38.33	494.86
2.80	12	SLE Q	2	6	0.00	-28125.40	0.00	-2296.45	0.00	16.09	33.62	433.61
2.80	10	SLE R	2	6	0.00	-32249.00	0.00	-2609.67	0.00	16.09	38.33	494.86
2.80	12	SLE Q	2	6	0.00	-28125.40	0.00	-2296.45	0.00	16.09	33.62	433.61
7.10	10	SLE R	2	6	430.00	-30529.00	0.00	2982.43	6.03	10.05	41.37	522.62
7.10	12	SLE Q	2	6	430.00	-26405.40	0.00	2666.30	6.03	10.05	36.73	461.88

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø14/ 5	2	2	9	SLU	0.40	0.35	136.32	1.00	75247.60	67934.40	67934.40	0.40	0.35	1787.81	1.00	75247.60	67934.40	67934.40	37.999
0.00	0.45	ø14/ 5	2	2	5(TG)	SLV	0.40	0.35	0.00	1.00	75247.60	65517.50	65517.50	0.40	0.35	15594.60	1.00	75247.60	65517.50	65517.50	4.201
0.00	0.45	ø14/ 5	2	2	1(TG)	SLV	0.40	0.35	0.00	1.00	75247.60	65595.80	65595.80	0.40	0.35	15610.90	1.00	75247.60	65595.80	65595.80	4.202
0.00	0.45	ø14/ 5	2	2	1(TG)	SLV	0.40	0.35	15601.50	1.00	75247.60	65527.50	65527.50	0.40	0.35	0.00	1.00	75247.60	65527.50	65527.50	4.200
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	136.32	2.50	20475.50	46851.30	20475.50	0.40	0.35	1787.81	2.50	20475.50	46851.30	20475.50	11.453

0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	45238.50	20475.50	0.40	0.35	15610.90	2.50	20475.50	45238.50	20475.50	1.312
0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	15601.50	2.50	20475.50	45191.40	20475.50	0.40	0.35	0.00	2.50	20475.50	45191.40	20475.50	1.312
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	136.32	2.50	30713.30	46851.30	30713.30	0.40	0.35	1787.81	2.50	30713.30	46851.30	30713.30	17.179
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	45238.50	30713.30	0.40	0.35	15610.90	2.50	30713.30	45238.50	30713.30	1.967
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	15601.50	2.50	30713.30	45191.40	30713.30	0.40	0.35	0.00	2.50	30713.30	45191.40	30713.30	1.969
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.35	373.25	2.50	30713.30	43573.40	30713.30	0.40	0.35	1823.38	2.50	30713.30	43573.40	30713.30	16.844
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	41053.40	30713.30	0.40	0.35	7264.32	2.50	30713.30	41053.40	30713.30	4.228
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.40	0.35	7264.32	2.50	30713.30	41053.40	30713.30	0.40	0.35	0.00	2.50	30713.30	41053.40	30713.30	4.228
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.35	373.25	2.50	20475.50	43523.20	20475.50	0.40	0.35	1823.38	2.50	20475.50	43523.20	20475.50	11.229
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	41053.40	20475.50	0.40	0.35	7264.32	2.50	20475.50	41053.40	20475.50	2.819
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.40	0.35	7264.32	2.50	20475.50	41053.40	20475.50	0.40	0.35	0.00	2.50	20475.50	41053.40	20475.50	2.819
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.35	373.25	2.50	30713.30	43322.50	30713.30	0.40	0.35	1823.38	2.50	30713.30	43322.50	30713.30	16.844
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	41053.40	30713.30	0.40	0.35	7264.32	2.50	30713.30	41053.40	30713.30	4.228
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.35	7264.32	2.50	30713.30	41053.40	30713.30	0.40	0.35	0.00	2.50	30713.30	41053.40	30713.30	4.228

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.38493 ω_{wd}=0.87631 $\mu\Phi_d$=14.1813 ν_d=0.20929 $E_{sy,d}$=0.0018995 b_c/b_0=1.26582 $\mu\Phi_c$=24.6614
  0.33731 >= 0.1791 [7.4.29]
- CC=1 α_e=0.38493 ω_{wd}=0.87631 $\mu\Phi_d$=22.5728 ν_d=0.20929 $E_{sy,d}$=0.0018995 b_c/b_0=1.26582 $\mu\Phi_c$=24.6614
  0.33731 >= 0.30578 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
114	S	ø8/10	Y+	I	2	4.02	10.05	0.40	0.30	0.20	3.02
			Z+	I	2	24.88	13.70	0.50	0.30	0.20	3.02
			Y-	I	2	10.05	4.02	0.50	0.30	0.20	3.02
			Z-	I	2	24.88	13.70	0.50	0.30	0.20	3.02
314	S	ø8/10	Y+	I	2	4.02	10.05	0.40	0.30	0.20	3.02
			Z+	I	2	22.87	11.44	0.50	0.30	0.20	3.02
			Y-	I	2	10.05	4.02	0.50	0.30	0.20	3.02
			Z-	I	2	22.87	11.44	0.50	0.30	0.20	3.02

Pilastrata n. 15

Nodi: 15 115 315

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.90	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	6	0.00	-58614.50	2161.36		2161.36	0.00		0.00	-180984.00	14221.60	0.00	3.088
0.00	5	SLV	1	6	0.00	-58614.50	2161.36		2161.36	0.00		0.00	-180984.00	14221.60	0.00	3.088
2.50	5(α)	SLV	1	6	250.00	-56431.80	-1762.76	7.21	-12715.10	0.00	9.86	0.00	-56431.80	-14112.90	0.00	1.110
2.80	1(α)	SLV	2	6	0.00	-28040.70	0.00	13.83	0.00	1010.42	10.46	10569.60	-28040.70	0.00	11749.60	1.112
2.80	1(α)	SLV	2	6	0.00	-28040.70	0.00	13.83	0.00	1010.42	10.46	10569.60	-28040.70	0.00	11749.60	1.112
7.10	1	SLV	2	6	430.00	-26320.70	-5820.33		-5820.33	0.00		0.00	-26320.70	-11588.20	0.00	1.991

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.50	7	SND	1	6	250.00	-55961.60	2419.24	2419.24	0.00	0.00	-278437.00	12307.30	0.00	4.976
2.80	3	SND	2	6	0.00	-28127.10	-7739.01	-7739.01	0.00	0.00	-28127.10	-10071.80	0.00	1.301
2.80	3	SND	2	6	0.00	-28127.10	-7739.01	-7739.01	0.00	0.00	-28127.10	-10071.80	0.00	1.301

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-67398.00	0.00	1553.29	0.00	20.61	46.92	659.35
0.00	12	SLE Q	1	6	0.00	-58023.10	0.00	1370.21	0.00	20.61	40.64	570.39
0.00	10	SLE R	1	6	0.00	-67398.00	0.00	1553.29	0.00	20.61	46.92	659.35
0.00	12	SLE Q	1	6	0.00	-58023.10	0.00	1370.21	0.00	20.61	40.64	570.39
2.50	10	SLE R	1	6	250.00	-66398.00	0.00	-2598.11	0.00	20.61	54.21	738.80
2.50	12	SLE Q	1	6	250.00	-57023.10	0.00	-2237.08	0.00	20.61	46.60	634.97
2.80	10	SLE R	2	6	0.00	-32396.70	0.00	3092.78	8.29	12.31	40.97	520.61
2.80	12	SLE Q	2	6	0.00	-28247.90	0.00	2682.69	8.29	12.31	35.59	452.52
2.80	10	SLE R	2	6	0.00	-32396.70	0.00	3092.78	8.29	12.31	40.97	520.61
2.80	12	SLE Q	2	6	0.00	-28247.90	0.00	2682.69	8.29	12.31	35.59	452.52
7.10	10	SLE R	2	6	430.00	-30676.70	0.00	-3614.50	8.29	12.31	45.91	566.32
7.10	12	SLE Q	2	6	430.00	-26527.90	0.00	-3166.78	8.29	12.31	40.15	494.31

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	Vsdu,y <daN>	$ctg\theta_{,y}$	VRsd,y <daN>	VRcd,y <daN>	Vrd,y <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	Vsdu,z <daN>	$ctg\theta_{,z}$	VRsd,z <daN>	VRcd,z <daN>	Vrd,z <daN>	Sic.
0.00	0.45	ø14/ 5	2	2	9	SLU	0.40	0.35	293.30	1.00	75247.60	67934.40	67934.40	0.40	0.35	2395.62	1.00	75247.60	67934.40	67934.40	28.358
0.00	0.45	ø14/ 5	2	2	3(TG)	SLV	0.40	0.35	0.00	1.00	75247.60	65457.80	65457.80	0.40	0.35	17814.80	1.00	75247.60	65457.80	65457.80	3.674
0.00	0.45	ø14/ 5	2	2	5(TG)	SLV	0.40	0.35	0.00	1.00	75247.60	65712.80	65712.80	0.40	0.35	17869.00	1.00	75247.60	65712.80	65712.80	3.677
0.00	0.45	ø14/ 5	2	2	1(TG)	SLV	0.40	0.35	17839.60	1.00	75247.60	65538.70	65538.70	0.40	0.35	0.00	1.00	75247.60	65538.70	65538.70	3.674
0.00	0.45	ø14/ 5	2	2	5(TG)	SLV	0.40	0.35	17853.70	1.00	75247.60	65593.50	65593.50	0.40	0.35	0.00	1.00	75247.60	65593.50	65593.50	3.674
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	293.30	2.50	20475.50	46851.30	20475.50	0.40	0.35	2395.62	2.50	20475.50	46851.30	20475.50	8.547
0.45	2.05	ø8/15	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	45319.20	20475.50	0.40	0.35	17869.00	2.50	20475.50	45319.20	20475.50	1.146
0.45	2.05	ø8/15	2	2	5(TG)	SLV	0.40	0.35	17853.70	2.50	20475.50	45236.90	20475.50	0.40	0.35	0.00	2.50	20475.50	45236.90	20475.50	1.147

2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	293.30	2.50	30713.30	46851.30	30713.30	0.40	0.35	2395.62	2.50	30713.30	46851.30	30713.30	12.821
2.05	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	45319.20	30713.30	0.40	0.35	17869.00	2.50	30713.30	45319.20	30713.30	1.719
2.05	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.35	17853.70	2.50	30713.30	45236.90	30713.30	0.40	0.35	0.00	2.50	30713.30	45236.90	30713.30	1.720
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.35	352.77	2.50	30713.30	43600.90	30713.30	0.40	0.35	2216.25	2.50	30713.30	43600.90	30713.30	13.858
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	41089.60	30713.30	0.40	0.35	8571.90	2.50	30713.30	41089.60	30713.30	3.583
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.35	8572.02	2.50	30713.30	41089.80	30713.30	0.40	0.35	0.00	2.50	30713.30	41089.80	30713.30	3.583
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.35	352.77	2.50	20475.50	43550.80	20475.50	0.40	0.35	2216.25	2.50	20475.50	43550.80	20475.50	9.239
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	41089.60	20475.50	0.40	0.35	8571.90	2.50	20475.50	41089.60	20475.50	2.389
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.35	8572.02	2.50	20475.50	41089.80	20475.50	0.40	0.35	0.00	2.50	20475.50	41089.80	20475.50	2.389
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.35	352.77	2.50	30713.30	43350.10	30713.30	0.40	0.35	2216.25	2.50	30713.30	43350.10	30713.30	13.858
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	41089.60	30713.30	0.40	0.35	8571.90	2.50	30713.30	41089.60	30713.30	3.583
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.35	8572.02	2.50	30713.30	41089.80	30713.30	0.40	0.35	0.00	2.50	30713.30	41089.80	30713.30	3.583

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.39779 ω_{wd}=0.87631 $\mu\Phi_d$=14.1813 ν_d=0.21051 $E_{sy,d}$=0.0018995 b_c/b_θ=1.26582 $\mu\Phi_c$=25.2606 0.34859 >= 0.18035 [7.4.29]
- CC=5 α_e=0.39779 ω_{wd}=0.87631 $\mu\Phi_d$=22.5728 ν_d=0.21051 $E_{sy,d}$=0.0018995 b_c/b_θ=1.26582 $\mu\Phi_c$=25.2606 0.34859 >= 0.30777 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
115	S	ø8/10	Y+	I	2	4.02	10.05	0.40	0.29	0.20	3.02
			Z+	I	2	24.00	13.70	0.50	0.29	0.20	3.02
			Y-	I	2	10.05	4.02	0.50	0.29	0.20	3.02
			Z-	I	2	24.00	13.70	0.50	0.29	0.20	3.02
315	S	ø8/10	Y+	I	2	4.02	10.05	0.40	0.29	0.20	3.02
			Z+	I	2	21.74	11.44	0.50	0.29	0.20	3.02
			Y-	I	2	10.05	4.02	0.50	0.29	0.20	3.02
			Z-	I	2	21.74	11.44	0.50	0.29	0.20	3.02

Pilastrata n. 16

Nodi: 16 -964 -1083 -1202 116 216 316

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	6	0.00	-12460.80	6334.81		6334.81	0.00		0.00	-12460.80	11990.00	0.00	1.893
0.00	5	SLV	1	6	0.00	-12460.80	6334.81		6334.81	0.00		0.00	-12460.80	11990.00	0.00	1.893
0.93	9	SLU	1	6	93.33	-29730.80	6064.02		6064.02	0.00		0.00	-29730.80	13589.30	0.00	2.241
0.93	9	SLU	2	6	0.00	-27639.20	5728.37		5728.37	0.00		0.00	-27639.20	13402.10	0.00	2.340
1.62	9	SLU	2	6	68.33	-27283.90	4947.70		4947.70	0.00		0.00	-27283.90	13370.10	0.00	2.702
1.62	9	SLU	3	6	0.00	-29394.50	4730.25		4730.25	0.00		0.00	-29394.50	13559.70	0.00	2.867
2.30	9	SLU	3	6	68.33	-29039.10	4212.38		4212.38	0.00		0.00	-29039.10	13528.60	0.00	3.212
2.30	9	SLU	4	6	0.00	-39043.70	3766.70		3766.70	0.00		0.00	-39043.70	14389.30	0.00	3.820
2.50	1(α)	SLV	4	6	20.00	-22976.30	3355.27	1.30	4361.85	0.00	2.82	0.00	-22976.30	12979.30	0.00	2.976
2.80	1(α)	SLV	5	6	0.00	-17067.70	-8516.50	1.30	-11071.50	0.00	6.94	0.00	-17067.70	-12428.70	0.00	1.123
2.80	1(α)	SLV	5	6	0.00	-17067.70	-8516.50	1.30	-11071.50	0.00	6.94	0.00	-17067.70	-12428.70	0.00	1.123
6.10	5(α)	SLV	5	6	330.00	-15594.60	0.00	1.00	0.00	887.74	9.16	8134.53	-15594.60	0.00	12289.90	1.511
6.35	9	SLU	6	6	0.00	-22824.50	8622.53		8622.53	0.00		0.00	-22824.50	12965.40	0.00	1.504
6.35	9	SLU	6	6	0.00	-22824.50	8622.53		8622.53	0.00		0.00	-22824.50	12965.40	0.00	1.504
7.10	9	SLU	6	6	75.00	-22434.50	12651.80		12651.80	0.00		0.00	-22434.50	12929.30	0.00	1.022

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-21567.90	0.00	4705.91	15.71	9.42	56.05	646.78
0.00	12	SLE Q	1	6	0.00	-19538.90	0.00	4410.99	15.71	9.42	52.50	628.56
0.00	10	SLE R	1	6	0.00	-21567.90	0.00	4705.91	15.71	9.42	56.05	646.78
0.00	12	SLE Q	1	6	0.00	-19538.90	0.00	4410.99	15.71	9.42	52.50	628.56
0.93	10	SLE R	1	6	93.33	-21194.60	0.00	4313.90	9.42	15.71	51.46	570.48
0.93	12	SLE Q	1	6	93.33	-19165.60	0.00	3943.48	9.42	15.71	47.03	520.33
0.93	10	SLE R	2	6	0.00	-19651.70	0.00	4068.97	9.42	15.71	48.52	536.20
0.93	12	SLE Q	2	6	0.00	-17599.80	0.00	3680.06	9.42	15.71	43.87	483.97
1.62	10	SLE R	2	6	68.33	-19378.40	0.00	3497.49	9.42	15.71	41.85	474.36
1.62	12	SLE Q	2	6	68.33	-17326.40	0.00	3052.80	9.42	15.71	36.56	416.20
1.62	10	SLE R	3	6	0.00	-20834.60	0.00	3338.05	9.42	15.71	40.11	464.77
1.62	12	SLE Q	3	6	0.00	-18485.30	0.00	2877.57	9.42	15.71	34.62	403.30
2.30	10	SLE R	3	6	68.33	-20561.30	0.00	2949.58	9.42	15.71	35.64	421.49
2.30	12	SLE Q	3	6	68.33	-18211.90	0.00	2392.39	9.42	15.71	29.11	349.62
2.30	10	SLE R	4	6	0.00	-27605.20	0.00	2634.67	9.42	15.71	33.90	427.41
2.30	12	SLE Q	4	6	0.00	-24314.90	0.00	2119.48	0.00	25.13	28.05	357.42
2.50	10	SLE R	4	6	20.00	-27525.20	0.00	2914.00	9.42	15.71	36.57	454.68
2.50	12	SLE Q	4	6	20.00	-24234.90	0.00	2261.12	9.42	15.71	29.29	370.23
2.80	10	SLE R	5	6	0.00	-19690.20	0.00	-7314.49	15.71	9.42	85.97	1495.49
2.80	12	SLE Q	5	6	0.00	-17916.90	0.00	-6220.46	15.71	9.42	73.24	1227.75
2.80	10	SLE R	5	6	0.00	-19690.20	0.00	-7314.49	15.71	9.42	85.97	1495.49
2.80	12	SLE Q	5	6	0.00	-17916.90	0.00	-6220.46	15.71	9.42	73.24	1227.75
6.10	10	SLE R	5	6	330.00	-18370.20	0.00	5138.62	15.71	9.42	60.85	883.69
6.10	12	SLE Q	5	6	330.00	-16596.90	0.00	4336.98	15.71	9.42	51.44	707.21

6.35	10	SLE R	6	6	0.00	-16081.60	0.00	6094.99	15.71	9.42	71.60	1258.49
6.35	12	SLE Q	6	6	0.00	-14300.80	0.00	5146.70	15.71	9.42	60.54	1035.45
6.35	10	SLE R	6	6	0.00	-16081.60	0.00	6094.99	15.71	9.42	71.60	1258.49
6.35	12	SLE Q	6	6	0.00	-14300.80	0.00	5146.70	15.71	9.42	60.54	1035.45
7.10	10	SLE R	6	6	75.00	-15781.60	0.00	8941.86	15.71	9.42	103.92	2149.19
7.10	12	SLE Q	6	6	75.00	-14000.80	0.00	7559.04	15.71	9.42	87.96	1790.77

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	6	0.00	-19538.90	4410.99	0.00	43.00	147.00	0.50	20.00	144.58	9.42	276.04	628.56	0.18	0.04
0.00	11	SLE F	1	6	0.00	-19996.20	4467.12	0.00	43.00	147.00	0.50	20.00	144.31	9.42	274.77	629.65	0.18	0.04
0.00	12	SLE Q	1	6	0.00	-19538.90	4410.99	0.00	43.00	147.00	0.50	20.00	144.58	9.42	276.04	628.56	0.18	0.04
0.00	11	SLE F	1	6	0.00	-19996.20	4467.12	0.00	43.00	147.00	0.50	20.00	144.31	9.42	274.77	629.65	0.18	0.04
0.93	12	SLE Q	1	6	93.33	-19165.60	3943.48	0.00	43.00	147.00	0.50	20.00	142.04	9.42	264.08	506.80	0.15	0.04
0.93	11	SLE F	1	6	93.33	-19622.80	4027.20	0.00	43.00	147.00	0.50	20.00	141.96	9.42	263.73	515.96	0.15	0.04
0.93	12	SLE Q	2	6	0.00	-17599.80	3680.06	0.00	43.00	147.00	0.50	20.00	142.50	9.42	266.27	482.05	0.14	0.03
0.93	11	SLE F	2	6	0.00	-18060.60	3771.78	0.00	43.00	147.00	0.50	20.00	142.47	9.42	266.11	493.36	0.14	0.03
1.62	12	SLE Q	2	6	68.33	-17326.40	3052.80	0.00	43.00	147.00	0.50	20.00	136.95	9.42	240.12	316.91	0.09	0.02
1.62	11	SLE F	2	6	68.33	-17787.20	3167.48	0.00	43.00	147.00	0.50	20.00	137.34	9.42	241.94	334.31	0.10	0.02
1.62	12	SLE Q	3	6	0.00	-18485.30	2877.57	0.00	43.00	147.00	0.50	20.00	132.02	9.42	216.88	239.92	0.07	0.02
1.62	11	SLE F	3	6	0.00	-19011.80	2998.76	0.00	43.00	147.00	0.50	20.00	132.59	9.42	219.54	256.57	0.07	0.02
2.80	12	SLE Q	5	6	0.00	-17916.90	-6220.46	0.00	43.00	147.00	0.50	20.00	152.81	9.42	314.84	1227.75	0.37	0.10
2.80	11	SLE F	5	6	0.00	-18249.00	-6457.83	0.00	43.00	147.00	0.50	20.00	153.07	9.42	316.08	1287.77	0.38	0.10
2.80	12	SLE Q	5	6	0.00	-17916.90	-6220.46	0.00	43.00	147.00	0.50	20.00	152.81	9.42	314.84	1227.75	0.37	0.10
2.80	11	SLE F	5	6	0.00	-18249.00	-6457.83	0.00	43.00	147.00	0.50	20.00	153.07	9.42	316.08	1287.77	0.38	0.10
6.10	12	SLE Q	5	6	330.00	-16596.90	4336.98	0.00	43.00	147.00	0.50	20.00	147.95	9.42	291.93	707.21	0.21	0.05
6.10	11	SLE F	5	6	330.00	-16929.00	4482.22	0.00	43.00	147.00	0.50	20.00	148.22	9.42	293.20	738.74	0.22	0.05
6.35	12	SLE Q	6	6	0.00	-14300.80	5146.70	0.00	43.00	147.00	0.50	20.00	153.30	9.42	317.15	1035.45	0.30	0.08
6.35	11	SLE F	6	6	0.00	-14634.90	5321.42	0.00	43.00	147.00	0.50	20.00	153.44	9.42	317.80	1076.30	0.31	0.08
6.35	12	SLE Q	6	6	0.00	-14300.80	5146.70	0.00	43.00	147.00	0.50	20.00	153.30	9.42	317.15	1035.45	0.30	0.08
6.35	11	SLE F	6	6	0.00	-14634.90	5321.42	0.00	43.00	147.00	0.50	20.00	153.44	9.42	317.80	1076.30	0.31	0.08
7.10	12	SLE Q	6	6	75.00	-14000.80	7559.04	0.00	43.00	147.00	0.50	20.00	157.53	9.42	337.06	1790.77	0.63	0.17
7.10	11	SLE F	6	6	75.00	-14334.90	7821.47	0.00	43.00	147.00	0.50	20.00	157.61	9.42	337.46	1858.93	0.54	0.15

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø10/ 5	2	2	9	SLU	0.40	0.35	4677.61	1.46	56141.90	56141.90	56141.90	0.40	0.35	565.60	1.46	56141.90	56141.90	56141.90	12.002
0.00	0.45	ø10/ 5	2	2	7(TG)	SLV	0.40	0.35	8239.66	1.44	55357.00	55357.00	55357.00	0.40	0.35	8284.32	1.44	55357.00	55357.00	55357.00	6.682
0.00	0.45	ø10/ 5	2	2	5(TG)	SLV	0.40	0.35	16644.10	1.44	55448.00	55448.00	55448.00	0.40	0.35	0.00	1.44	55448.00	55448.00	55448.00	3.331
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	4677.61	2.50	20475.50	41517.00	20475.50	0.40	0.35	757.86	2.50	20475.50	41517.00	20475.50	4.377
0.45	2.05	ø8/15	2	2	7(TG)	SLV	0.40	0.35	8239.66	2.50	20475.50	40762.50	20475.50	0.40	0.35	8284.32	2.50	20475.50	40762.50	20475.50	2.472
0.45	2.05	ø8/15	2	2	5(TG)	SLV	0.40	0.35	16644.10	2.50	20475.50	40853.00	20475.50	0.40	0.35	0.00	2.50	20475.50	40853.00	20475.50	1.230
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	589.47	2.50	30713.30	42722.80	30713.30	0.40	0.35	2087.44	2.50	30713.30	42722.80	30713.30	14.713
2.05	2.50	ø8/10	2	2	7(TG)	SLV	0.40	0.35	8239.66	2.50	30713.30	40762.50	30713.30	0.40	0.35	8284.32	2.50	30713.30	40762.50	30713.30	3.707
2.05	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.35	16644.10	2.50	30713.30	40853.00	30713.30	0.40	0.35	0.00	2.50	30713.30	40853.00	30713.30	1.845
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.35	78.90	2.50	30713.30	41222.80	30713.30	0.40	0.35	5340.58	2.50	30713.30	41222.80	30713.30	5.751
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.35	853.26	2.50	30713.30	40007.20	30713.30	0.40	0.35	4212.49	2.50	30713.30	40007.20	30713.30	7.291
2.80	3.35	ø8/10	2	2	5	SLV	0.40	0.35	939.73	2.50	30713.30	40027.80	30713.30	0.40	0.35	3650.95	2.50	30713.30	40027.80	30713.30	8.412
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.35	78.90	2.50	20475.50	41184.30	20475.50	0.40	0.35	5340.58	2.50	20475.50	41184.30	20475.50	3.834
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.35	853.26	2.50	20475.50	39977.60	20475.50	0.40	0.35	4212.49	2.50	20475.50	39977.60	20475.50	4.861
3.35	5.55	ø8/15	2	2	5	SLV	0.40	0.35	939.73	2.50	20475.50	39998.20	20475.50	0.40	0.35	3650.95	2.50	20475.50	39998.20	20475.50	5.608
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.35	78.90	2.50	30713.30	41030.30	30713.30	0.40	0.35	5340.58	2.50	30713.30	41030.30	30713.30	5.751
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.35	853.26	2.50	30713.30	39859.10	30713.30	0.40	0.35	4212.49	2.50	30713.30	39859.10	30713.30	7.291
5.55	6.10	ø8/10	2	2	5	SLV	0.40	0.35	939.73	2.50	30713.30	39879.70	30713.30	0.40	0.35	3650.95	2.50	30713.30	39879.70	30713.30	8.412
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.35	2230.41	2.50	30713.30	40553.50	30713.30	0.40	0.35	5372.35	2.50	30713.30	40553.50	30713.30	5.717
6.35	7.10	ø8/10	2	2	1	SLV	0.40	0.35	2679.38	2.50	30713.30	39514.00	30713.30	0.40	0.35	3890.37	2.50	30713.30	39514.00	30713.30	7.895
6.35	7.10	ø8/10	2	2	5	SLV	0.40	0.35	2963.05	2.50	30713.30	39510.60	30713.30	0.40	0.35	3679.81	2.50	30713.30	39510.60	30713.30	8.346

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.38454 ω_{wd}=0.44151 $\mu\Phi_d$=14.1813 ν_d=0.095594 $E_{sy,d}$=0.0018995 b_c/b_0=1.25 $\mu\Phi_c$=30.0723 0.16978 >= 0.06157 [7.4.29]
- CC=5 α_e=0.38454 ω_{wd}=0.44151 $\mu\Phi_d$=22.5728 ν_d=0.095594 $E_{sy,d}$=0.0018995 b_c/b_0=1.25 $\mu\Phi_c$=30.0723 0.16978 >= 0.11871 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
116	N	ø10/ 6	Y+	E	2	4.02	4.02	0.40	0.29	0.20	7.85
			Z+	E	2	9.42	13.70	0.50	0.29	0.20	7.85
216	N	ø8/ 8	Y+	I	2	4.02	4.02	0.40	0.29	0.15	3.02
			Y-	I	2	4.02	4.02	0.40	0.29	0.15	3.02
316	N	ø12/ 5	Y+	I	2	4.02	4.02	0.40	0.29	0.20	13.57
			Z+	E	2	9.17	11.44	0.50	0.29	0.20	13.57
			Y-	I	2	4.02	4.02	0.40	0.29	0.20	13.57

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
116	Y+	1	SLV	-939.73	16369.10	6.13	8.25	78563.50	0.00	384163.00	---	---
		5	SLV	-939.73	16369.10	6.79	9.00	77834.00	0.00	384163.00	---	---
	Z+	5	SLV	4212.49	36355.00	6.07	8.41	98278.90	121393.00	307330.00	---	---
		5	SLV	4212.49	36355.00	6.79	9.00	97291.90	108709.00	307330.00	---	---
216	Y+	1	SLV	-2963.05	31654.60	4.85	5.66	102627.00	189570.00	196691.00	---	---
		1	SLV	-2963.05	31654.60	5.42	6.27	102007.00	175430.00	196691.00	---	---
	Y-	1	SLV	-2963.05	31654.60	4.85	5.66	102627.00	189570.00	196691.00	---	---
		1	SLV	-2963.05	31654.60	5.42	6.27	102007.00	175430.00	196691.00	---	---
316	Y+	1	SLV	0.00	34617.60	0.00	4.74	104777.00	529654.00	663833.00	---	---

	Z+	1	SLV	0.00	39485.70	0.00	4.74	104776.00	418051.00	531066.00	---	---
	Y-	1	SLV	0.00	34617.60	0.00	4.74	104777.00	529654.00	663833.00	---	---

Pilastrata n. 17

Nodi: 17 -969 -1088 -1207 117 217 317

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	6	0.00	-9652.74	-5686.22		-5686.22	0.00		0.00	-9652.74	-12462.60	0.00	2.192
0.00	9	SLU	1	6	0.00	-9652.74	-5686.22		-5686.22	0.00		0.00	-9652.74	-12462.60	0.00	2.192
0.93	9	SLU	1	6	93.33	-9167.41	-5655.74		-5655.74	0.00		0.00	-9167.41	-12415.60	0.00	2.195
0.93	9	SLU	2	6	0.00	-13418.80	-5401.15		-5401.15	0.00		0.00	-13418.80	-12827.50	0.00	2.375
1.62	9	SLU	2	6	68.33	-13063.50	-4749.22		-4749.22	0.00		0.00	-13063.50	-12793.00	0.00	2.694
1.62	9	SLU	3	6	0.00	-19310.40	-4444.38		-4444.38	0.00		0.00	-19310.40	-13388.30	0.00	3.012
2.30	9	SLU	3	6	68.33	-18955.00	-4249.31		-4249.31	0.00		0.00	-18955.00	-13354.40	0.00	3.143
2.30	9	SLU	4	6	0.00	-34774.30	-3423.43		-3423.43	0.00		0.00	-34774.30	-14786.40	0.00	4.319
2.50	5(α)	SLV	4	6	20.00	-21227.30	-2951.71	1.49	-4403.15	0.00	1.00	0.00	-21227.30	-13566.30	0.00	3.081
2.80	1(α)	SLV	5	6	0.00	-21439.30	6722.86	1.30	8739.72	0.00	1.00	0.00	-21439.30	13586.20	0.00	1.555
2.80	1(α)	SLV	5	6	0.00	-21439.30	6722.86	1.30	8739.72	0.00	1.00	0.00	-21439.30	13586.20	0.00	1.555
6.10	3(α)	SLV	5	6	330.00	-20173.20	0.00	1.00	0.00	-1109.58	7.49	-8311.74	-20173.20	0.00	-13317.30	1.602
6.35	9	SLU	6	6	0.00	-22047.30	-11264.20		-11264.20	0.00		0.00	-22047.30	-13642.30	0.00	1.211
6.35	9	SLU	6	6	0.00	-22047.30	-11264.20		-11264.20	0.00		0.00	-22047.30	-13642.30	0.00	1.211
7.10	9	SLU	6	6	75.00	-21657.30	-13254.30		-13254.30	0.00		0.00	-21657.30	-13606.00	0.00	1.027

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-6898.13	0.00	-4108.92	16.59	10.30	45.52	932.55
0.00	12	SLE Q	1	6	0.00	-6221.79	0.00	-3897.41	16.59	10.30	43.11	896.37
0.00	10	SLE R	1	6	0.00	-6898.13	0.00	-4108.92	16.59	10.30	45.52	932.55
0.00	12	SLE Q	1	6	0.00	-6221.79	0.00	-3897.41	16.59	10.30	43.11	896.37
0.93	10	SLE R	1	6	93.33	-6524.80	0.00	-4073.49	16.59	10.30	45.06	936.06
0.93	12	SLE Q	1	6	93.33	-5848.46	0.00	-3797.91	16.59	10.30	41.97	881.40
0.93	10	SLE R	2	6	0.00	-9547.33	0.00	-3880.39	16.59	10.30	43.54	771.19
0.93	12	SLE Q	2	6	0.00	-8461.28	0.00	-3570.03	16.59	10.30	40.00	720.96
1.62	10	SLE R	2	6	68.33	-9274.00	0.00	-3393.13	16.59	10.30	38.21	641.82
1.62	12	SLE Q	2	6	68.33	-8187.95	0.00	-3028.62	16.59	10.30	34.10	576.00
1.62	10	SLE R	3	6	0.00	-13710.80	0.00	-3163.82	16.59	10.30	36.25	431.07
1.62	12	SLE Q	3	6	0.00	-12035.30	0.00	-2766.73	16.59	10.30	31.70	375.57
2.30	10	SLE R	3	6	68.33	-13437.50	0.00	-2994.97	16.59	10.30	34.36	393.97
2.30	12	SLE Q	3	6	68.33	-11761.90	0.00	-2469.40	10.30	16.59	28.40	319.22
2.30	10	SLE R	4	6	0.00	-24658.30	0.00	-2408.79	10.30	16.59	30.15	382.26
2.30	12	SLE Q	4	6	0.00	-21524.10	0.00	-1965.44	10.30	16.59	25.10	320.72
2.50	10	SLE R	4	6	20.00	-24578.30	0.00	-3245.90	10.30	16.59	38.42	466.80
2.50	12	SLE Q	4	6	20.00	-21444.10	0.00	-2532.99	10.30	16.59	30.43	376.18
2.80	10	SLE R	5	6	0.00	-24546.40	0.00	5870.27	16.59	10.30	67.16	827.70
2.80	12	SLE Q	5	6	0.00	-21983.00	0.00	5018.52	16.59	10.30	57.52	676.52
2.80	10	SLE R	5	6	0.00	-24546.40	0.00	5870.27	16.59	10.30	67.16	827.70
2.80	12	SLE Q	5	6	0.00	-21983.00	0.00	5018.52	16.59	10.30	57.52	676.52
6.10	10	SLE R	5	6	330.00	-23226.40	0.00	-2703.40	10.30	16.59	32.56	403.33
6.10	12	SLE Q	5	6	330.00	-20663.00	0.00	-2267.28	10.30	16.59	27.61	344.82
6.35	10	SLE R	6	6	0.00	-15529.80	0.00	-7999.54	16.59	10.30	89.03	1738.83
6.35	12	SLE Q	6	6	0.00	-13811.10	0.00	-6729.23	16.59	10.30	75.03	1435.62
6.35	10	SLE R	6	6	0.00	-15529.80	0.00	-7999.54	16.59	10.30	89.03	1738.83
6.35	12	SLE Q	6	6	0.00	-13811.10	0.00	-6729.23	16.59	10.30	75.03	1435.62
7.10	10	SLE R	6	6	75.00	-15229.80	0.00	-9360.58	16.59	10.30	103.60	2142.29
7.10	12	SLE Q	6	6	75.00	-13511.10	0.00	-7873.86	16.59	10.30	87.29	1776.30

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	6	0.00	-6221.79	-3897.41	0.00	43.00	98.69	0.50	18.22	145.83	10.30	338.31	896.37	0.26	0.06
0.00	11	SLE F	1	6	0.00	-6351.53	-3930.20	0.00	43.00	98.69	0.50	18.22	145.75	10.30	337.91	901.06	0.26	0.07
0.00	12	SLE Q	1	6	0.00	-6221.79	-3897.41	0.00	43.00	98.69	0.50	18.22	145.83	10.30	338.31	896.37	0.26	0.06
0.00	11	SLE F	1	6	0.00	-6351.53	-3930.20	0.00	43.00	98.69	0.50	18.22	145.75	10.30	337.91	901.06	0.26	0.07
0.93	12	SLE Q	1	6	93.33	-5848.46	-3797.91	0.00	43.00	98.69	0.50	18.22	146.03	10.30	339.45	881.40	0.26	0.06
0.93	11	SLE F	1	6	93.33	-5978.20	-3848.53	0.00	43.00	98.69	0.50	18.22	145.98	10.30	339.18	891.24	0.26	0.06
0.93	12	SLE Q	2	6	0.00	-8461.28	-3570.03	0.00	43.00	98.69	0.50	18.22	142.93	10.30	321.96	720.96	0.21	0.05
0.93	11	SLE F	2	6	0.00	-8667.36	-3631.42	0.00	43.00	98.69	0.50	18.22	142.87	10.30	321.59	731.20	0.21	0.05
1.62	12	SLE Q	2	6	68.33	-8187.95	-3028.62	0.00	43.00	98.69	0.50	18.22	141.61	10.30	314.48	576.00	0.17	0.04
1.62	11	SLE F	2	6	68.33	-8394.02	-3107.87	0.00	43.00	98.69	0.50	18.22	141.62	10.30	314.54	591.36	0.17	0.04
1.62	12	SLE Q	3	6	0.00	-12035.30	-2766.73	0.00	43.00	98.69	0.50	18.22	134.34	10.30	273.34	375.57	0.11	0.02
1.62	11	SLE F	3	6	0.00	-12350.20	-2856.31	0.00	43.00	98.69	0.50	18.22	134.46	10.30	274.05	390.05	0.11	0.03
2.30	12	SLE Q	3	6	68.33	-11761.90	-2469.40	0.00	43.00	98.69	0.50	18.22	132.31	10.30	261.90	304.27	0.09	0.02
2.30	11	SLE F	3	6	68.33	-12076.80	-2595.24	0.00	43.00	98.69	0.50	18.22	132.86	10.30	264.98	328.27	0.10	0.02
2.80	12	SLE Q	5	6	0.00	-21983.00	5018.52	0.00	43.00	98.69	0.50	18.22	134.19	10.30	272.51	676.52	0.20	0.04
2.80	11	SLE F	5	6	0.00	-22305.30	5241.40	0.00	43.00	98.69	0.50	18.22	134.79	10.30	275.89	726.87	0.21	0.05
2.80	12	SLE Q	5	6	0.00	-21983.00	5018.52	0.00	43.00	98.69	0.50	18.22	134.19	10.30	272.51	676.52	0.20	0.04
2.80	11	SLE F	5	6	0.00	-22305.30	5241.40	0.00	43.00	98.69	0.50	18.22	134.79	10.30	275.89	726.87	0.21	0.05
6.35	12	SLE Q	6	6	0.00	-13811.10	-6729.23	0.00	43.00	98.69	0.50	18.22	144.15	10.30	328.84	1435.62	0.48	0.12
6.35	11	SLE F	6	6	0.00	-14133.50	-6911.81	0.00	43.00	98.69	0.50	18.22	144.18	10.30	329.00	1476.47	0.43	0.11

6.35	12	SLE Q	6	6	0.00	-13811.10	-6729.23	0.00	43.00	98.69	0.50	18.22	144.15	10.30	328.84	1435.62	0.48	0.12
6.35	11	SLE F	6	6	0.00	-14133.50	-6911.81	0.00	43.00	98.69	0.50	18.22	144.18	10.30	329.00	1476.47	0.43	0.11
7.10	12	SLE Q	6	6	75.00	-13511.10	-7873.86	0.00	43.00	98.69	0.50	18.22	145.40	10.30	335.88	1776.30	0.64	0.16
7.10	11	SLE F	6	6	75.00	-13833.50	-8136.33	0.00	43.00	98.69	0.50	18.22	145.45	10.30	336.20	1840.21	0.56	0.14

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø8/10	2	2	9	SLU	0.40	0.35	320.48	2.50	30713.30	38780.40	30713.30	0.40	0.35	32.66	2.50	30713.30	38780.40	30713.30	95.836
0.00	0.45	ø8/10	2	2	1	SLV	0.40	0.35	784.01	2.50	30713.30	38441.10	30713.30	0.40	0.35	290.91	2.50	30713.30	38441.10	30713.30	39.175
0.00	0.45	ø8/10	2	2	7(TG)	SLV	0.40	0.35	16009.20	2.50	30713.30	40381.70	30713.30	0.40	0.35	0.00	2.50	30713.30	40381.70	30713.30	1.918
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	320.48	2.50	20475.50	40050.10	20475.50	0.40	0.35	285.47	2.50	20475.50	40050.10	20475.50	63.891
0.45	2.05	ø8/15	2	2	1	SLV	0.40	0.35	784.01	2.50	20475.50	39151.10	20475.50	0.40	0.35	982.56	2.50	20475.50	39151.10	20475.50	20.839
0.45	2.05	ø8/15	2	2	7(TG)	SLV	0.40	0.35	16009.20	2.50	20475.50	40381.70	20475.50	0.40	0.35	0.00	2.50	20475.50	40381.70	20475.50	1.279
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	393.71	2.50	30713.30	42148.10	30713.30	0.40	0.35	6111.18	2.50	30713.30	42148.10	30713.30	5.026
2.05	2.50	ø8/10	2	2	1	SLV	0.40	0.35	6611.15	2.50	30713.30	40441.00	30713.30	0.40	0.35	4968.28	2.50	30713.30	40441.00	30713.30	4.646
2.05	2.50	ø8/10	2	2	7(TG)	SLV	0.40	0.35	16009.20	2.50	30713.30	40381.70	30713.30	0.40	0.35	0.00	2.50	30713.30	40381.70	30713.30	1.918
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.35	50.78	2.50	30713.30	42113.40	30713.30	0.40	0.35	3744.26	2.50	30713.30	42113.40	30713.30	8.203
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.35	1580.66	2.50	30713.30	40513.40	30713.30	0.40	0.35	2957.24	2.50	30713.30	40513.40	30713.30	10.386
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.35	50.78	2.50	20475.50	42074.90	20475.50	0.40	0.35	3744.26	2.50	20475.50	42074.90	20475.50	5.469
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.35	1580.66	2.50	20475.50	40483.80	20475.50	0.40	0.35	2957.25	2.50	20475.50	40483.80	20475.50	6.924
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.35	50.78	2.50	30713.30	41920.90	30713.30	0.40	0.35	3744.26	2.50	30713.30	41920.90	30713.30	8.203
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.35	1580.66	2.50	30713.30	40365.30	30713.30	0.40	0.35	2957.25	2.50	30713.30	40365.30	30713.30	10.386
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.35	1198.17	2.50	30713.30	40448.90	30713.30	0.40	0.35	2653.40	2.50	30713.30	40448.90	30713.30	11.575
6.35	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.35	26835.00	2.50	30713.30	39356.30	30713.30	0.40	0.35	26979.80	2.50	30713.30	39356.30	30713.30	1.138

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.41613 ω_{wd}=0.17551 $\mu\Phi_d$=14.1813 v_d=0.025616 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=59.5764
  0.07303 >= -0.00928 [7.4.29]
- CC=1 α_e=0.41613 ω_{wd}=0.17551 $\mu\Phi_d$=22.5728 v_d=0.025616 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=59.5764
  0.07303 >= 0.00593 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
117	N	ø8/ 5	Z-	E	2	11.44	12.57	0.50	0.29	0.20	6.03
217	N	ø10/ 8	Y+	I	2	4.02	4.02	0.40	0.29	0.15	4.71
			Y-	I	2	4.02	4.02	0.40	0.29	0.15	4.71
317	N	ø12/ 5	Y+	I	2	4.02	4.02	0.40	0.29	0.20	13.57
			Y-	I	2	4.02	4.02	0.40	0.29	0.20	13.57
			Z-	E	2	10.30	11.44	0.50	0.29	0.20	13.57

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_S	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
117	Z-	1	SLV	-2957.24	46264.70	7.70	7.51	97361.70	227826.00	236029.00	---	---
		1	SLV	-2957.24	46264.70	8.09	7.90	96807.50	218902.00	236029.00	---	---
217	Y+	1	SLV	2359.93	32257.70	4.81	7.23	101272.00	212633.00	307330.00	---	---
		1	SLV	2359.93	32257.70	5.11	7.62	100952.00	204518.00	307330.00	---	---
	Y-	1	SLV	2359.93	32257.70	4.81	7.23	101272.00	212633.00	307330.00	---	---
		1	SLV	2359.93	32257.70	5.11	7.62	100952.00	204518.00	307330.00	---	---
317	Y+	1	SLV	0.00	34617.60	0.00	4.70	104777.00	529653.00	663832.00	---	---
	Y-	1	SLV	0.00	34617.60	0.00	4.70	104777.00	529653.00	663832.00	---	---
	Z-	1	SLV	0.00	44353.80	0.00	4.70	104776.00	563425.00	531066.00	47370.50	53106.60

Pilastrata n. 18

Nodi: 18 118 318

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.70	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	5.10	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1(e)	SLV	1	6	0.00	-55264.50	710.96		1105.29	0.00		0.00	-180984.00	12258.00	0.00	3.275
0.00	1(e)	SLV	1	6	0.00	-55264.50	710.96		1105.29	0.00		0.00	-180984.00	12258.00	0.00	3.275
2.50	1(α)	SLV	1	6	250.00	-53151.30	1558.14	7.23	11261.70	0.00	8.28	0.00	-53151.30	12115.50	0.00	1.076
2.80	1(α)	SLV	2	6	0.00	-26386.00	-750.62	12.93	-9704.07	0.00	16.46	0.00	-26386.00	-9836.51	0.00	1.014
2.80	1(α)	SLV	2	6	0.00	-26386.00	-750.62	12.93	-9704.07	0.00	16.46	0.00	-26386.00	-9836.51	0.00	1.014
7.10	1	SLV	2	6	430.00	-24666.00	4363.92		4363.92	0.00		0.00	-24666.00	9672.78	0.00	2.217

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.50	7	SND	1	6	250.00	-53601.00	-2197.76	-2197.76	0.00	0.00	-53601.00	-10491.10	0.00	4.774
2.80	3	SND	2	6	0.00	-26284.00	5398.77	5398.77	0.00	0.00	-26284.00	8256.76	0.00	1.529
2.80	3	SND	2	6	0.00	-26284.00	5398.77	5398.77	0.00	0.00	-26284.00	8256.76	0.00	1.529

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-63553.80	724.18	0.00	0.00	16.09	40.23	581.59

0.00	12	SLE Q	1	6	0.00	-54707.90	0.00	-699.08	0.00	16.09	35.23	507.31
0.00	10	SLE R	1	6	0.00	-63553.80	724.18	0.00	0.00	16.09	40.23	581.59
0.00	12	SLE Q	1	6	0.00	-54707.90	0.00	-699.08	0.00	16.09	35.23	507.31
2.50	10	SLE R	1	6	250.00	-62553.80	0.00	2198.97	0.00	16.09	51.32	703.47
2.50	12	SLE Q	1	6	250.00	-53707.90	0.00	1940.96	0.00	16.09	44.48	608.65
2.80	10	SLE R	2	6	0.00	-30489.10	0.00	-2659.29	0.00	16.09	38.05	487.33
2.80	12	SLE Q	2	6	0.00	-26583.80	0.00	-2345.84	6.03	10.05	33.44	427.75
2.80	10	SLE R	2	6	0.00	-30489.10	0.00	-2659.29	0.00	16.09	38.05	487.33
2.80	12	SLE Q	2	6	0.00	-26583.80	0.00	-2345.84	6.03	10.05	33.44	427.75
7.10	10	SLE R	2	6	430.00	-28769.10	0.00	3075.01	6.03	10.05	41.95	523.07
7.10	12	SLE Q	2	6	430.00	-24863.80	0.00	2747.11	6.03	10.05	37.31	462.77

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø14/ 5	2	2	9	SLU	0.40	0.35	487.18	1.00	75247.60	67934.40	67934.40	0.40	0.35	1575.92	1.00	75247.60	67934.40	67934.40	43.108
0.00	0.45	ø14/ 5	2	2	1(TG)	SLV	0.40	0.35	0.00	1.00	75247.60	65056.50	65056.50	0.40	0.35	15393.20	1.00	75247.60	65056.50	65056.50	4.226
0.00	0.45	ø14/ 5	2	2	1(TG)	SLV	0.40	0.35	15367.80	1.00	75247.60	64939.40	64939.40	0.40	0.35	0.00	1.00	75247.60	64939.40	64939.40	4.226
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	487.18	2.50	20475.50	46851.30	20475.50	0.40	0.35	1575.92	2.50	20475.50	46851.30	20475.50	12.993
0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	44866.50	20475.50	0.40	0.35	15393.20	2.50	20475.50	44866.50	20475.50	1.330
0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	15367.80	2.50	20475.50	44785.80	20475.50	0.40	0.35	0.00	2.50	20475.50	44785.80	20475.50	1.332
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	487.18	2.50	30713.30	46851.30	30713.30	0.40	0.35	1575.91	2.50	30713.30	46851.30	30713.30	19.489
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	44866.50	30713.30	0.40	0.35	15393.20	2.50	30713.30	44866.50	30713.30	1.995
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	15367.80	2.50	30713.30	44785.80	30713.30	0.40	0.35	0.00	2.50	30713.30	44785.80	30713.30	1.999
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.35	16.94	2.50	30713.30	43242.30	30713.30	0.40	0.35	1868.56	2.50	30713.30	43242.30	30713.30	16.437
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	40854.60	30713.30	0.40	0.35	7164.39	2.50	30713.30	40854.60	30713.30	4.287
2.80	3.52	ø8/10	2	2	3(TG)	SLV	0.40	0.35	7153.67	2.50	30713.30	40848.10	30713.30	0.40	0.35	0.00	2.50	30713.30	40848.10	30713.30	4.293
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.35	16.94	2.50	20475.50	43192.20	20475.50	0.40	0.35	1868.56	2.50	20475.50	43192.20	20475.50	10.958
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	40854.60	20475.50	0.40	0.35	7164.39	2.50	20475.50	40854.60	20475.50	2.858
3.52	6.38	ø8/15	2	2	3(TG)	SLV	0.40	0.35	7153.67	2.50	20475.50	40848.10	20475.50	0.40	0.35	0.00	2.50	20475.50	40848.10	20475.50	2.862
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.35	16.94	2.50	30713.30	42991.50	30713.30	0.40	0.35	1868.56	2.50	30713.30	42991.50	30713.30	16.437
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	40854.60	30713.30	0.40	0.35	7164.39	2.50	30713.30	40854.60	30713.30	4.287
6.38	7.10	ø8/10	2	2	3(TG)	SLV	0.40	0.35	7153.67	2.50	30713.30	40848.10	30713.30	0.40	0.35	0.00	2.50	30713.30	40848.10	30713.30	4.293

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.38493 ω_{Wd}=0.87631 $\mu\Phi_d$=14.1813 ν_d=0.19848 $E_{sy,d}$=0.0018995 b_c/b_0=1.26582 $\mu\Phi_c$=26.0045 0.33731 >= 0.16804 [7.4.29]
- CC=1 α_e=0.38493 ω_{Wd}=0.87631 $\mu\Phi_d$=22.5728 ν_d=0.19848 $E_{sy,d}$=0.0018995 b_c/b_0=1.26582 $\mu\Phi_c$=26.0045 0.33731 >= 0.28818 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
118	S	ø10/ 5	Y+	I	2	4.02	4.02	0.40	0.29	0.20	9.42
			Z+	I	2	24.00	12.57	0.50	0.29	0.20	9.42
			Y-	I	2	4.02	4.02	0.40	0.29	0.20	9.42
			Z-	I	2	24.00	12.57	0.50	0.29	0.20	9.42
318	S	ø8/10	Y+	I	2	4.02	4.02	0.40	0.30	0.20	3.02
			Z+	I	2	21.74	11.44	0.50	0.30	0.20	3.02
			Y-	I	2	4.02	4.02	0.40	0.30	0.20	3.02
			Z-	I	2	21.74	11.44	0.50	0.30	0.20	3.02

Pilastrata n. 19

Nodi: 19 119 319

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.70	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	5.10	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	6	0.00	-53973.30	1748.76		1748.76	0.00		0.00	-180984.00	12171.40	0.00	3.353
0.00	5	SLV	1	6	0.00	-53973.30	1748.76		1748.76	0.00		0.00	-180984.00	12171.40	0.00	3.353
2.50	3(α)	SLV	1	6	250.00	-52751.40	-1193.00	7.75	-9248.52	0.00	37.26	0.00	-52751.40	-12087.60	0.00	1.307
2.80	7(α)	SLV	2	6	0.00	-26356.00	0.00	23.09	0.00	891.21	10.81	9636.14	-26356.00	0.00	9833.82	1.021
2.80	7(α)	SLV	2	6	0.00	-26356.00	0.00	23.09	0.00	891.21	10.81	9636.14	-26356.00	0.00	9833.82	1.021
7.10	1	SLV	2	6	430.00	-24602.70	-4714.31		-4714.31	0.00		0.00	-24602.70	-9666.69	0.00	2.050

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.50	7	SND	1	6	250.00	-52397.20	1804.16	1804.16	0.00	0.00	-278437.00	10398.60	0.00	5.314
2.80	1	SND	2	6	0.00	-26252.30	-6038.35	-6038.35	0.00	0.00	-26252.30	-8254.35	0.00	1.367
2.80	1	SND	2	6	0.00	-26252.30	-6038.35	-6038.35	0.00	0.00	-26252.30	-8254.35	0.00	1.367

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-62450.30	0.00	1198.22	0.00	16.09	43.37	614.39
0.00	12	SLE Q	1	6	0.00	-53760.50	0.00	1069.92	0.00	16.09	37.64	532.29
0.00	10	SLE R	1	6	0.00	-62450.30	0.00	1198.22	0.00	16.09	43.37	614.39
0.00	12	SLE Q	1	6	0.00	-53760.50	0.00	1069.92	0.00	16.09	37.64	532.29

2.50	10	SLE R	1	6	250.00	-61450.30	0.00	-1916.30	0.00	16.09	48.49	669.55
2.50	12	SLE Q	1	6	250.00	-52760.50	0.00	-1657.53	0.00	16.09	41.73	575.95
2.80	10	SLE R	2	6	0.00	-30274.50	0.00	2554.66	0.00	16.09	36.96	475.06
2.80	12	SLE Q	2	6	0.00	-26397.40	0.00	2213.51	0.00	16.09	32.09	412.80
2.80	10	SLE R	2	6	0.00	-30274.50	0.00	2554.66	0.00	16.09	36.96	475.06
2.80	12	SLE Q	2	6	0.00	-26397.40	0.00	2213.51	0.00	16.09	32.09	412.80
7.10	10	SLE R	2	6	430.00	-28554.50	0.00	-3226.64	6.03	10.05	43.72	540.16
7.10	12	SLE Q	2	6	430.00	-24677.40	0.00	-2820.27	6.03	10.05	38.17	470.70

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø14/ 5	2	2	9	SLU	0.40	0.35	223.90	1.00	75247.60	67934.40	67934.40	0.40	0.35	1805.53	1.00	75247.60	67934.40	67934.40	37.626
0.00	0.45	ø14/ 5	2	2	5(TG)	SLV	0.40	0.35	0.00	1.00	75247.60	64730.20	64730.20	0.40	0.35	15267.90	1.00	75247.60	64730.20	64730.20	4.240
0.00	0.45	ø14/ 5	2	2	5(TG)	SLV	0.40	0.35	15258.30	1.00	75247.60	64687.40	64687.40	0.40	0.35	0.00	1.00	75247.60	64687.40	64687.40	4.239
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	223.90	2.50	20475.50	46851.30	20475.50	0.40	0.35	1805.53	2.50	20475.50	46851.30	20475.50	11.341
0.45	2.05	ø8/15	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	44641.50	20475.50	0.40	0.35	15267.90	2.50	20475.50	44641.50	20475.50	1.341
0.45	2.05	ø8/15	2	2	5(TG)	SLV	0.40	0.35	15258.30	2.50	20475.50	44612.00	20475.50	0.40	0.35	0.00	2.50	20475.50	44612.00	20475.50	1.342
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	223.90	2.50	30713.30	46851.30	30713.30	0.40	0.35	1805.53	2.50	30713.30	46851.30	30713.30	17.011
2.05	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	44641.50	30713.30	0.40	0.35	15267.90	2.50	30713.30	44641.50	30713.30	2.012
2.05	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.35	15258.30	2.50	30713.30	44612.00	30713.30	0.40	0.35	0.00	2.50	30713.30	44612.00	30713.30	2.013
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.35	24.66	2.50	30713.30	43200.00	30713.30	0.40	0.35	1912.93	2.50	30713.30	43200.00	30713.30	16.056
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	40813.10	30713.30	0.40	0.35	7138.36	2.50	30713.30	40813.10	30713.30	4.303
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.40	0.35	7135.71	2.50	30713.30	40813.10	30713.30	0.40	0.35	0.00	2.50	30713.30	40813.10	30713.30	4.304
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.35	24.66	2.50	20475.50	43149.80	20475.50	0.40	0.35	1912.93	2.50	20475.50	43149.80	20475.50	10.704
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	40813.10	20475.50	0.40	0.35	7138.36	2.50	20475.50	40813.10	20475.50	2.868
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.40	0.35	7135.71	2.50	20475.50	40813.10	20475.50	0.40	0.35	0.00	2.50	20475.50	40813.10	20475.50	2.869
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.35	24.66	2.50	30713.30	42949.20	30713.30	0.40	0.35	1912.93	2.50	30713.30	42949.20	30713.30	16.056
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	40813.10	30713.30	0.40	0.35	7138.36	2.50	30713.30	40813.10	30713.30	4.303
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.35	7135.71	2.50	30713.30	40813.10	30713.30	0.40	0.35	0.00	2.50	30713.30	40813.10	30713.30	4.304

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.38493 ω_{wd}=0.87631 $\mu\Phi_d$=14.1813 ν_d=0.19384 $E_{sy,d}$=0.0018995 b_c/b_0=1.26582 $\mu\Phi_c$=26.6267 0.33731 >= 0.16329 [7.4.29]
- CC=5 α_e=0.38493 ω_{wd}=0.87631 $\mu\Phi_d$=22.5728 ν_d=0.19384 $E_{sy,d}$=0.0018995 b_c/b_0=1.26582 $\mu\Phi_c$=26.6267 0.33731 >= 0.28063 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
119	S	ø10/ 5	Y+	I	2	4.02	4.02	0.40	0.29	0.20	9.42
			Z+	I	2	24.00	12.57	0.50	0.29	0.20	9.42
			Y-	I	2	4.02	4.02	0.40	0.29	0.20	9.42
			Z-	I	2	24.00	12.57	0.50	0.29	0.20	9.42
319	S	ø8/10	Y+	I	2	4.02	4.02	0.40	0.30	0.20	3.02
			Z+	I	2	20.61	11.44	0.50	0.30	0.20	3.02
			Y-	I	2	4.02	4.02	0.40	0.30	0.20	3.02
			Z-	I	2	20.61	11.44	0.50	0.30	0.20	3.02

Pilastrata n. 20

Nodi: 20 120 220 320

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	6	0.00	-49287.00	4912.90		4912.90	0.00		0.00	-49287.00	15085.70	0.00	3.071
0.00	9	SLU	1	6	0.00	-49287.00	4912.90		4912.90	0.00		0.00	-49287.00	15085.70	0.00	3.071
2.50	3(α)	SLV	1	6	250.00	-28877.70	0.00	1.67	0.00	-1284.18	4.99	-6403.08	-28877.70	0.00	-13514.10	2.111
2.80	1(α)	SLV	2	6	0.00	-16733.40	-7878.91	1.30	-10242.60	0.00	6.64	0.00	-16733.40	-12397.20	0.00	1.210
2.80	1(α)	SLV	2	6	0.00	-16733.40	-7878.91	1.30	-10242.60	0.00	6.64	0.00	-16733.40	-12397.20	0.00	1.210
6.10	9	SLU	2	6	330.00	-25547.80	6879.30		6879.30	0.00		0.00	-25547.80	13213.90	0.00	1.921
6.35	9	SLU	3	6	0.00	-22228.40	8212.87		8212.87	0.00		0.00	-22228.40	12910.10	0.00	1.572
6.35	9	SLU	3	6	0.00	-22228.40	8212.87		8212.87	0.00		0.00	-22228.40	12910.10	0.00	1.572
7.10	9	SLU	3	6	75.00	-21838.40	12283.80		12283.80	0.00		0.00	-21838.40	12874.30	0.00	1.048

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-35028.60	0.00	3490.23	9.42	15.71	44.41	556.75
0.00	12	SLE Q	1	6	0.00	-31243.90	0.00	3324.95	9.42	15.71	41.69	517.87
0.00	10	SLE R	1	6	0.00	-35028.60	0.00	3490.23	9.42	15.71	44.41	556.75
0.00	12	SLE Q	1	6	0.00	-31243.90	0.00	3324.95	9.42	15.71	41.69	517.87
2.50	10	SLE R	1	6	250.00	-34028.60	0.00	3980.33	9.42	15.71	49.09	601.18
2.50	12	SLE Q	1	6	250.00	-30243.90	0.00	3174.87	9.42	15.71	39.92	496.86
2.80	10	SLE R	2	6	0.00	-19366.80	0.00	-7541.61	15.71	9.42	88.52	1577.40
2.80	12	SLE Q	2	6	0.00	-17717.10	0.00	-6383.67	15.71	9.42	75.09	1285.09
2.80	10	SLE R	2	6	0.00	-19366.80	0.00	-7541.61	15.71	9.42	88.52	1577.40
2.80	12	SLE Q	2	6	0.00	-17717.10	0.00	-6383.67	15.71	9.42	75.09	1285.09
6.10	10	SLE R	2	6	330.00	-18046.80	0.00	4870.47	15.71	9.42	57.72	815.01
6.10	12	SLE Q	2	6	330.00	-16397.10	0.00	4135.46	15.71	9.42	49.09	654.46

6.35	10	SLE R	3	6	0.00	-15697.50	0.00	5813.42	15.71	9.42	68.33	1186.77
6.35	12	SLE Q	3	6	0.00	-14028.90	0.00	4935.78	15.71	9.42	58.10	981.22
6.35	10	SLE R	3	6	0.00	-15697.50	0.00	5813.42	15.71	9.42	68.33	1186.77
6.35	12	SLE Q	3	6	0.00	-14028.90	0.00	4935.78	15.71	9.42	58.10	981.22
7.10	10	SLE R	3	6	75.00	-15397.50	0.00	8691.00	15.71	9.42	101.01	2086.57
7.10	12	SLE Q	3	6	75.00	-13728.90	0.00	7375.92	15.71	9.42	85.84	1744.74

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
2.80	12	SLE Q	2	6	0.00	-17717.10	-6383.67	0.00	43.00	147.00	0.50	20.00	153.32	9.42	317.23	1285.09	0.40	0.10
2.80	11	SLE F	2	6	0.00	-18024.70	-6640.93	0.00	43.00	147.00	0.50	20.00	153.61	9.42	318.61	1352.20	0.39	0.10
2.80	12	SLE Q	2	6	0.00	-17717.10	-6383.67	0.00	43.00	147.00	0.50	20.00	153.32	9.42	317.23	1285.09	0.40	0.10
2.80	11	SLE F	2	6	0.00	-18024.70	-6640.93	0.00	43.00	147.00	0.50	20.00	153.61	9.42	318.61	1352.20	0.39	0.10
6.10	12	SLE Q	2	6	330.00	-16397.10	4135.46	0.00	43.00	147.00	0.50	20.00	147.19	9.42	288.38	654.46	0.19	0.05
6.10	11	SLE F	2	6	330.00	-16704.70	4268.44	0.00	43.00	147.00	0.50	20.00	147.48	9.42	289.70	683.12	0.20	0.05
6.35	12	SLE Q	3	6	0.00	-14028.90	4935.78	0.00	43.00	147.00	0.50	20.00	152.99	9.42	315.71	981.22	0.29	0.07
6.35	11	SLE F	3	6	0.00	-14341.20	5097.49	0.00	43.00	147.00	0.50	20.00	153.13	9.42	316.37	1018.89	0.30	0.08
6.35	12	SLE Q	3	6	0.00	-14028.90	4935.78	0.00	43.00	147.00	0.50	20.00	152.99	9.42	315.71	981.22	0.29	0.07
6.35	11	SLE F	3	6	0.00	-14341.20	5097.49	0.00	43.00	147.00	0.50	20.00	153.13	9.42	316.37	1018.89	0.30	0.08
7.10	12	SLE Q	3	6	75.00	-13728.90	7375.92	0.00	43.00	147.00	0.50	20.00	157.49	9.42	336.88	1744.74	0.61	0.16
7.10	11	SLE F	3	6	75.00	-14041.20	7627.18	0.00	43.00	147.00	0.50	20.00	157.57	9.42	337.29	1810.29	0.53	0.14

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø10/ 5	2	2	9	SLU	0.40	0.35	1229.40	1.53	58632.20	58632.20	58632.20	0.40	0.35	307.30	1.53	58632.20	58632.20	58632.20	47.692
0.00	0.45	ø10/ 5	2	2	1(TG)	SLV	0.40	0.35	8659.72	1.47	56362.60	56362.60	56362.60	0.40	0.35	8714.85	1.47	56362.60	56362.60	56362.60	6.467
0.00	0.45	ø10/ 5	2	2	1(TG)	SLV	0.40	0.35	17374.70	1.47	56362.60	56362.60	56362.60	0.40	0.35	0.00	1.47	56362.60	56362.60	56362.60	3.244
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	1229.40	2.50	20475.50	44084.20	20475.50	0.40	0.35	307.30	2.50	20475.50	44084.20	20475.50	16.655
0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	8659.72	2.50	20475.50	41771.50	20475.50	0.40	0.35	8714.85	2.50	20475.50	41771.50	20475.50	2.349
0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	17374.70	2.50	20475.50	41771.50	20475.50	0.40	0.35	0.00	2.50	20475.50	41771.50	20475.50	1.178
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	1229.40	2.50	30713.30	43972.20	30713.30	0.40	0.35	307.30	2.50	30713.30	43972.20	30713.30	24.982
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	8659.72	2.50	30713.30	41771.50	30713.30	0.40	0.35	8714.85	2.50	30713.30	41771.50	30713.30	3.524
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	17374.70	2.50	30713.30	41771.50	30713.30	0.40	0.35	0.00	2.50	30713.30	41771.50	30713.30	1.768
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.35	74.42	2.50	30713.30	41151.10	30713.30	0.40	0.35	5321.81	2.50	30713.30	41151.10	30713.30	5.771
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.35	663.20	2.50	30713.30	39998.40	30713.30	0.40	0.35	3868.14	2.50	30713.30	39998.40	30713.30	7.940
2.80	3.35	ø8/10	2	2	5	SLV	0.40	0.35	738.90	2.50	30713.30	39942.60	30713.30	0.40	0.35	3466.73	2.50	30713.30	39942.60	30713.30	8.859
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.35	74.42	2.50	20475.50	41112.60	20475.50	0.40	0.35	5321.81	2.50	20475.50	41112.60	20475.50	3.847
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.35	663.20	2.50	20475.50	39968.80	20475.50	0.40	0.35	3868.14	2.50	20475.50	39968.80	20475.50	5.293
3.35	5.55	ø8/15	2	2	5	SLV	0.40	0.35	738.90	2.50	20475.50	39913.00	20475.50	0.40	0.35	3466.73	2.50	20475.50	39913.00	20475.50	5.906
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.35	74.42	2.50	30713.30	40958.60	30713.30	0.40	0.35	5321.81	2.50	30713.30	40958.60	30713.30	5.771
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.35	663.20	2.50	30713.30	39850.30	30713.30	0.40	0.35	3868.14	2.50	30713.30	39850.30	30713.30	7.940
5.55	6.10	ø8/10	2	2	5	SLV	0.40	0.35	738.90	2.50	30713.30	39794.50	30713.30	0.40	0.35	3466.73	2.50	30713.30	39794.50	30713.30	8.859
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.35	551.15	2.50	30713.30	40473.20	30713.30	0.40	0.35	5427.85	2.50	30713.30	40473.20	30713.30	5.658
6.35	7.10	ø8/10	2	2	3(TG)	SLV	0.40	0.35	25573.90	2.50	30713.30	39419.90	30713.30	0.40	0.35	25513.40	2.50	30713.30	39419.90	30713.30	1.201

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.38454 ω_{wd}=0.44151 $\mu\Phi_d$=14.1813 ν_d=0.11805 $E_{sy,d}$=0.0018995 b_c/b_0=1.25 $\mu\Phi_c$=24.3512
  0.16978 >= 0.08425 [7.4.29]
- CC=1 α_e=0.38454 ω_{wd}=0.44151 $\mu\Phi_d$=22.5728 ν_d=0.11805 $E_{sy,d}$=0.0018995 b_c/b_0=1.25 $\mu\Phi_c$=24.3512
  0.16978 >= 0.15482 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
120	N	ø10/ 6	Y+	I	2	4.02	4.02	0.40	0.29	0.20	7.85
			Z+	E	2	11.44	12.57	0.50	0.29	0.20	7.85
			Y-	I	2	4.02	4.02	0.40	0.29	0.20	7.85
220	N	ø10/ 8	Y+	I	2	4.02	4.02	0.40	0.29	0.15	4.71
			Y-	I	2	4.02	4.02	0.40	0.29	0.15	4.71
320	N	ø12/ 5	Y+	I	2	4.02	4.02	0.40	0.29	0.20	13.57
			Z+	E	2	9.17	11.44	0.50	0.29	0.20	13.57
			Y-	I	2	4.02	4.02	0.40	0.29	0.20	13.57

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
120	Y+	1	SLV	-738.90	33878.70	6.01	10.28	99992.60	215355.00	384163.00	---	---
		1	SLV	-738.90	33878.70	6.72	11.45	99231.90	198295.00	384163.00	---	---
	Z+	1	SLV	3868.14	45353.80	6.01	10.28	98367.60	267189.00	307330.00	---	---
		1	SLV	3868.14	45353.80	6.72	11.45	97400.00	247621.00	307330.00	---	---
	Y-	1	SLV	-738.90	33878.70	6.01	10.28	99992.60	215355.00	384163.00	---	---
		1	SLV	-738.90	33878.70	6.72	11.45	99231.90	198295.00	384163.00	---	---
220	Y+	1	SLV	-2366.91	32250.70	4.76	5.54	101322.00	213788.00	307330.00	---	---
		1	SLV	-2366.91	32250.70	5.31	6.24	100735.00	199101.00	307330.00	---	---
	Y-	1	SLV	-2366.91	32250.70	4.76	5.54	101322.00	213788.00	307330.00	---	---
		1	SLV	-2366.91	32250.70	5.31	6.24	100735.00	199101.00	307330.00	---	---
320	Y+	1	SLV	0.00	34617.60	0.00	4.65	104777.00	529654.00	663833.00	---	---
	Z+	1	SLV	0.00	39485.70	0.00	4.65	104776.00	418051.00	531066.00	---	---
	Y-	1	SLV	0.00	34617.60	0.00	4.65	104777.00	529654.00	663833.00	---	---

Pilastrata n. 21

Nodi: 21 -975 -1094 -1213 121 221 321

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd

		<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
6	R	40.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	6	0.00	-9943.34	-5744.82		-5744.82	0.00		0.00	-9943.34	-12490.80	0.00	2.174
0.00	9	SLU	1	6	0.00	-9943.34	-5744.82		-5744.82	0.00		0.00	-9943.34	-12490.80	0.00	2.174
0.93	9	SLU	1	6	93.33	-9458.01	-5751.17		-5751.17	0.00		0.00	-9458.01	-12443.90	0.00	2.164
0.93	9	SLU	2	6	0.00	-13535.60	-5495.94		-5495.94	0.00		0.00	-13535.60	-12838.40	0.00	2.336
1.62	9	SLU	2	6	68.33	-13180.30	-4701.38		-4701.38	0.00		0.00	-13180.30	-12804.00	0.00	2.723
1.62	9	SLU	3	6	0.00	-19124.70	-4400.37		-4400.37	0.00		0.00	-19124.70	-13370.50	0.00	3.038
2.30	9	SLU	3	6	68.33	-18769.40	-4156.05		-4156.05	0.00		0.00	-18769.40	-13336.60	0.00	3.209
2.30	9	SLU	4	6	0.00	-33866.00	-3486.10		-3486.10	0.00		0.00	-33866.00	-14708.50	0.00	4.219
2.50	9	SLU	4	6	20.00	-33762.00	-4542.71		-4542.71	0.00		0.00	-33762.00	-14699.50	0.00	3.236
2.80	9	SLU	5	6	0.00	-29228.60	9711.06		9711.06	0.00		0.00	-29228.60	14298.70	0.00	1.472
2.80	9	SLU	5	6	0.00	-29228.60	9711.06		9711.06	0.00		0.00	-29228.60	14298.70	0.00	1.472
6.10	9	SLU	5	6	330.00	-27512.60	-6118.12		-6118.12	0.00		0.00	-27512.60	-14143.30	0.00	2.312
6.35	9	SLU	6	6	0.00	-23219.90	-9366.48		-9366.48	0.00		0.00	-23219.90	-13751.30	0.00	1.468
6.35	9	SLU	6	6	0.00	-23219.90	-9366.48		-9366.48	0.00		0.00	-23219.90	-13751.30	0.00	1.468
7.10	9	SLU	6	6	75.00	-22829.90	-13220.10		-13220.10	0.00		0.00	-22829.90	-13714.90	0.00	1.037

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-7101.62	0.00	-4155.84	16.59	10.30	46.07	938.62
0.00	12	SLE Q	1	6	0.00	-6442.01	0.00	-3939.86	16.59	10.30	43.61	900.52
0.00	10	SLE R	1	6	0.00	-7101.62	0.00	-4155.84	16.59	10.30	46.07	938.62
0.00	12	SLE Q	1	6	0.00	-6442.01	0.00	-3939.86	16.59	10.30	43.61	900.52
0.93	10	SLE R	1	6	93.33	-6728.28	0.00	-4144.34	16.59	10.30	45.87	949.03
0.93	12	SLE Q	1	6	93.33	-6068.68	0.00	-3862.29	16.59	10.30	42.70	891.87
0.93	10	SLE R	2	6	0.00	-9607.40	0.00	-3950.69	16.59	10.30	44.31	789.17
0.93	12	SLE Q	2	6	0.00	-8562.05	0.00	-3641.39	16.59	10.30	40.79	737.80
1.62	10	SLE R	2	6	68.33	-9334.07	0.00	-3356.30	16.59	10.30	37.82	629.25
1.62	12	SLE Q	2	6	68.33	-8288.72	0.00	-2996.83	16.59	10.30	33.77	563.44
1.62	10	SLE R	3	6	0.00	-13531.60	0.00	-3129.79	16.59	10.30	35.85	427.42
1.62	12	SLE Q	3	6	0.00	-11912.80	0.00	-2745.93	16.59	10.30	31.46	373.73
2.30	10	SLE R	3	6	68.33	-13258.30	0.00	-2919.35	16.59	10.30	33.51	379.14
2.30	12	SLE Q	3	6	68.33	-11639.50	0.00	-2407.32	10.30	16.59	27.70	312.16
2.30	10	SLE R	4	6	0.00	-23924.80	0.00	-2444.32	10.30	16.59	30.24	381.29
2.30	12	SLE Q	4	6	0.00	-20887.60	0.00	-1996.75	10.30	16.59	25.14	319.63
2.50	10	SLE R	4	6	20.00	-23844.80	0.00	-3158.88	10.30	16.59	37.38	453.90
2.50	12	SLE Q	4	6	20.00	-20807.60	0.00	-2468.38	10.30	16.59	29.64	366.10
2.80	10	SLE R	5	6	0.00	-20761.80	0.00	6833.30	16.59	10.30	77.26	1220.44
2.80	12	SLE Q	5	6	0.00	-18656.80	0.00	5826.86	16.59	10.30	66.01	1008.22
2.80	10	SLE R	5	6	0.00	-20761.80	0.00	6833.30	16.59	10.30	77.26	1220.44
2.80	12	SLE Q	5	6	0.00	-18656.80	0.00	5826.86	16.59	10.30	66.01	1008.22
6.10	10	SLE R	5	6	330.00	-19441.80	0.00	-4265.60	16.59	10.30	48.96	551.87
6.10	12	SLE Q	5	6	330.00	-17336.80	0.00	-3577.23	10.30	16.59	41.16	464.09
6.35	10	SLE R	6	6	0.00	-16346.90	0.00	-6606.58	16.59	10.30	74.14	1309.74
6.35	12	SLE Q	6	6	0.00	-14532.80	0.00	-5546.78	16.59	10.30	62.37	1071.15
6.35	10	SLE R	6	6	0.00	-16346.90	0.00	-6606.58	16.59	10.30	74.14	1309.74
6.35	12	SLE Q	6	6	0.00	-14532.80	0.00	-5546.78	16.59	10.30	62.37	1071.15
7.10	10	SLE R	6	6	75.00	-16046.90	0.00	-9316.82	16.59	10.30	103.30	2099.63
7.10	12	SLE Q	6	6	75.00	-14232.80	0.00	-7850.18	16.59	10.30	87.18	1743.05

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	6	0.00	-6442.01	-3939.86	0.00	43.00	98.69	0.50	18.22	145.69	10.30	337.53	900.52	0.26	0.06
0.00	11	SLE F	1	6	0.00	-6575.02	-3971.71	0.00	43.00	98.69	0.50	18.22	145.62	10.30	337.11	904.82	0.26	0.07
0.00	12	SLE Q	1	6	0.00	-6442.01	-3939.86	0.00	43.00	98.69	0.50	18.22	145.69	10.30	337.53	900.52	0.26	0.06
0.00	11	SLE F	1	6	0.00	-6575.02	-3971.71	0.00	43.00	98.69	0.50	18.22	145.62	10.30	337.11	904.82	0.26	0.07
0.93	12	SLE Q	1	6	93.33	-6068.68	-3862.29	0.00	43.00	98.69	0.50	18.22	145.92	10.30	338.82	891.87	0.26	0.06
0.93	11	SLE F	1	6	93.33	-6201.69	-3914.70	0.00	43.00	98.69	0.50	18.22	145.87	10.30	338.56	902.11	0.26	0.07
0.93	12	SLE Q	2	6	0.00	-8562.05	-3641.39	0.00	43.00	98.69	0.50	18.22	143.01	10.30	322.38	737.80	0.21	0.05
0.93	11	SLE F	2	6	0.00	-8778.59	-3703.85	0.00	43.00	98.69	0.50	18.22	142.94	10.30	321.96	747.98	0.22	0.05
1.62	12	SLE Q	2	6	68.33	-8288.72	-2996.83	0.00	43.00	98.69	0.50	18.22	141.36	10.30	313.05	563.44	0.16	0.04
1.62	11	SLE F	2	6	68.33	-8505.25	-3079.79	0.00	43.00	98.69	0.50	18.22	141.38	10.30	313.15	579.49	0.17	0.04
1.62	12	SLE Q	3	6	0.00	-11912.80	-2745.93	0.00	43.00	98.69	0.50	18.22	134.39	10.30	273.65	373.73	0.11	0.02
1.62	11	SLE F	3	6	0.00	-12252.10	-2838.35	0.00	43.00	98.69	0.50	18.22	134.50	10.30	274.24	388.23	0.11	0.03
2.30	12	SLE Q	3	6	68.33	-11639.50	-2407.32	0.00	43.00	98.69	0.50	18.22	131.95	10.30	259.86	291.49	0.08	0.02
2.30	11	SLE F	3	6	68.33	-11978.70	-2541.21	0.00	43.00	98.69	0.50	18.22	132.56	10.30	263.29	316.85	0.09	0.02
2.80	12	SLE Q	5	6	0.00	-18656.80	5826.86	0.00	43.00	98.69	0.50	18.22	139.54	10.30	302.77	1008.22	0.29	0.07
2.80	11	SLE F	5	6	0.00	-18998.10	6058.40	0.00	43.00	98.69	0.50	18.22	139.82	10.30	304.36	1061.87	0.31	0.07
2.80	12	SLE Q	5	6	0.00	-18656.80	5826.86	0.00	43.00	98.69	0.50	18.22	139.54	10.30	302.77	1008.22	0.29	0.07
2.80	11	SLE F	5	6	0.00	-18998.10	6058.40	0.00	43.00	98.69	0.50	18.22	139.82	10.30	304.36	1061.87	0.31	0.07
6.10	12	SLE Q	5	6	330.00	-17336.80	-3577.23	0.00	43.00	98.69	0.50	18.22	131.90	10.30	259.54	431.95	0.13	0.03
6.10	11	SLE F	5	6	330.00	-17678.10	-3735.65	0.00	43.00	98.69	0.50	18.22	132.47	10.30	262.77	463.72	0.14	0.03
6.35	12	SLE Q	6	6	0.00	-14532.80	-5546.78	0.00	43.00	98.69	0.50	18.22	141.95	10.30	316.38	1071.15	0.31	0.08
6.35	11	SLE F	6	6	0.00	-14874.40	-5734.62	0.00	43.00	98.69	0.50	18.22	142.05	10.30	316.97	1112.71	0.32	0.08
6.35	12	SLE Q	6	6	0.00	-14532.80	-5546.78	0.00	43.00	98.69	0.50	18.22	141.95	10.30	316.38	1071.15	0.31	0.08
6.35	11	SLE F	6	6	0.00	-14874.40	-5734.62	0.00	43.00	98.69	0.50	18.22	142.05	10.30	316.97	1112.71	0.32	0.08
7.10	12	SLE Q	6	6	75.00	-14232.80	-7850.18	0.00	43.00	98.69	0.50	18.22	145.04	10.30	333.87	1743.05	0.63	0.15
7.10	11	SLE F	6	6	75.00	-14574.40	-8124.45	0.00	43.00	98.69	0.50	18.22	145.11	10.30	334.27	1809.64	0.55	0.13

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.

0.00	0.45	ø8/10	2	2	9	SLU	0.40	0.35	73.71	2.50	30713.30	38819.50	30713.30	0.40	0.35	6.80	2.50	30713.30	38819.50	30713.30	>100
0.00	0.45	ø8/10	2	2	1	SLV	0.40	0.35	817.03	2.50	30713.30	38512.10	30713.30	0.40	0.35	248.09	2.50	30713.30	38512.10	30713.30	37.591
0.00	0.45	ø8/10	2	2	7(TG)	SLV	0.40	0.35	15998.30	2.50	30713.30	40284.60	30713.30	0.40	0.35	0.00	2.50	30713.30	40284.60	30713.30	1.920
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	92.01	2.50	20475.50	40025.10	20475.50	0.40	0.35	357.54	2.50	20475.50	40025.10	20475.50	57.268
0.45	2.05	ø8/15	2	2	1	SLV	0.40	0.35	817.03	2.50	20475.50	39136.90	20475.50	0.40	0.35	1019.78	2.50	20475.50	39136.90	20475.50	20.078
0.45	2.05	ø8/15	2	2	7(TG)	SLV	0.40	0.35	15998.30	2.50	20475.50	40284.60	20475.50	0.40	0.35	0.00	2.50	20475.50	40284.60	20475.50	1.280
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	1680.13	2.50	30713.30	42025.80	30713.30	0.40	0.35	5283.04	2.50	30713.30	42025.80	30713.30	5.814
2.05	2.50	ø8/10	2	2	1	SLV	0.40	0.35	7115.34	2.50	30713.30	40321.10	30713.30	0.40	0.35	3822.71	2.50	30713.30	40321.10	30713.30	4.316
2.05	2.50	ø8/10	2	2	7(TG)	SLV	0.40	0.35	15998.30	2.50	30713.30	40284.60	30713.30	0.40	0.35	0.00	2.50	30713.30	40284.60	30713.30	1.920
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.35	614.46	2.50	30713.30	41415.60	30713.30	0.40	0.35	4796.72	2.50	30713.30	41415.60	30713.30	6.403
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.35	1773.83	2.50	30713.30	40022.60	30713.30	0.40	0.35	3201.66	2.50	30713.30	40022.60	30713.30	9.593
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.35	614.46	2.50	20475.50	41377.00	20475.50	0.40	0.35	4796.72	2.50	20475.50	41377.00	20475.50	4.269
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.35	1773.83	2.50	20475.50	39993.00	20475.50	0.40	0.35	3201.66	2.50	20475.50	39993.00	20475.50	6.395
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.35	614.46	2.50	30713.30	41223.10	30713.30	0.40	0.35	4796.72	2.50	30713.30	41223.10	30713.30	6.403
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.35	1773.83	2.50	30713.30	39874.60	30713.30	0.40	0.35	3201.66	2.50	30713.30	39874.60	30713.30	9.593
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.35	1373.34	2.50	30713.30	40606.70	30713.30	0.40	0.35	5138.19	2.50	30713.30	40606.70	30713.30	5.977
6.35	7.10	ø8/10	2	2	5	SLV	0.40	0.35	1872.15	2.50	30713.30	39467.30	30713.30	0.40	0.35	3595.75	2.50	30713.30	39467.30	30713.30	8.542
6.35	7.10	ø8/10	2	2	1(TG)	SND	0.40	0.35	2587.21	2.50	30713.30	39482.00	30713.30								11.871
6.35	7.10	ø8/10	2	2	1(TG)	SLV								0.40	0.35	0.00	2.50	30713.30	39375.10	30713.30	---

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.41613 ω_{wd}=0.17551 $\mu\Phi_d$=14.1813 ν_d=0.027508 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=55.4782 0.07303 >= -0.00738 [7.4.29]
- CC=1 α_e=0.41613 ω_{wd}=0.17551 $\mu\Phi_d$=22.5728 ν_d=0.027508 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=55.4782 0.07303 >= 0.00896 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
121	N	ø10/10	Z-	E	2	10.30	13.45	0.50	0.29	0.20	4.71
221	N	ø8/ 8	Y-	E	2	4.02	4.02	0.40	0.29	0.15	3.02
321	N	ø12/ 5	Y+	I	2	4.02	4.02	0.40	0.29	0.20	13.57
			Y-	I	2	4.02	4.02	0.40	0.29	0.20	13.57
			Z-	E	2	11.44	11.44	0.50	0.29	0.20	13.57

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
121	Z-	1	SLV	-3201.66	41152.20	6.62	7.37	97532.60	181710.00	184398.00	---	---
		1	SLV	-3201.66	41152.20	6.78	7.58	97311.00	178208.00	184398.00	---	---
221	Y-	1	SLV	-1872.15	15436.70	5.16	6.15	80712.80	0.00	196691.00	---	---
		5	SLV	-1872.15	15436.70	5.30	6.26	80561.20	0.00	196691.00	---	---
321	Y+	1	SLV	0.00	34617.60	0.00	5.05	104777.00	529653.00	663832.00	---	---
	Y-	1	SLV	0.00	34617.60	0.00	5.05	104777.00	529653.00	663832.00	---	---
	Z-	1	SLV	0.00	49221.90	0.00	5.05	104776.00	725681.00	531066.00	47232.20	53106.60
		5	SLV	0.00	49221.90	0.00	5.03	104776.00	725681.00	531066.00	47240.60	53106.60

Pilastrata n. 22

Nodi: 22 122 322

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.70	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	5.10	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	6	0.00	-57749.30	1470.22		1470.22	0.00		0.00	-180984.00	12409.80	0.00	3.134
0.00	1	SLV	1	6	0.00	-57749.30	1470.22		1470.22	0.00		0.00	-180984.00	12409.80	0.00	3.134
2.50	1(α)	SLV	1	6	250.00	-56749.30	1560.85	7.89	12312.30	0.00	7.67	0.00	-56749.30	12355.90	0.00	1.004
2.80	5(α)	SLV	2	6	0.00	-27466.80	0.00	17.13	0.00	966.67	8.44	8159.31	-27466.80	0.00	9939.83	1.218
2.80	5(α)	SLV	2	6	0.00	-27466.80	0.00	17.13	0.00	966.67	8.44	8159.31	-27466.80	0.00	9939.83	1.218
7.10	9	SLU	2	6	430.00	-42107.00	5031.22		5031.22	0.00		0.00	-42107.00	11260.80	0.00	2.238

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.50	7	SND	1	6	250.00	-55738.80	-2349.40	-2349.40	0.00	0.00	-55738.80	-10653.80	0.00	4.535
2.80	3	SND	2	6	0.00	-26958.20	3761.55	3761.55	0.00	0.00	-26958.20	8316.11	0.00	2.211
2.80	3	SND	2	6	0.00	-26958.20	3761.55	3761.55	0.00	0.00	-26958.20	8316.11	0.00	2.211

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-65850.00	-666.91	0.00	0.00	16.09	41.02	595.25
0.00	12	SLE Q	1	6	0.00	-56859.20	-707.62	0.00	0.00	16.09	36.46	525.59
0.00	10	SLE R	1	6	0.00	-65850.00	-666.91	0.00	0.00	16.09	41.02	595.25
0.00	12	SLE Q	1	6	0.00	-56859.20	-707.62	0.00	0.00	16.09	36.46	525.59
2.50	10	SLE R	1	6	250.00	-64850.00	0.00	2335.17	0.00	16.09	53.64	734.18
2.50	12	SLE Q	1	6	250.00	-55859.20	0.00	1938.46	0.00	16.09	45.63	625.96
2.80	10	SLE R	2	6	0.00	-31613.30	0.00	-3211.32	6.03	10.05	44.19	555.17
2.80	12	SLE Q	2	6	0.00	-27645.00	0.00	-2749.64	6.03	10.05	38.00	478.78
2.80	10	SLE R	2	6	0.00	-31613.30	0.00	-3211.32	6.03	10.05	44.19	555.17

2.80	12	SLE Q	2	6	0.00	-27645.00	0.00	-2749.64	6.03	10.05	38.00	478.78
7.10	10	SLE R	2	6	430.00	-29893.30	0.00	3548.22	6.03	10.05	47.87	586.46
7.10	12	SLE Q	2	6	430.00	-25925.00	0.00	3047.83	6.03	10.05	41.15	504.96

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø14/ 5	2	2	9	SLU	0.40	0.35	613.33	1.00	75247.60	67934.40	67934.40	0.40	0.35	1350.71	1.00	75247.60	67934.40	67934.40	50.295
0.00	0.45	ø14/ 5	2	2	3(TG)	SLV	0.40	0.35	0.00	1.00	75247.60	65564.40	65564.40	0.40	0.35	15590.80	1.00	75247.60	65564.40	65564.40	4.205
0.00	0.45	ø14/ 5	2	2	1(TG)	SLV	0.40	0.35	0.00	1.00	75247.60	65610.60	65610.60	0.40	0.35	15599.70	1.00	75247.60	65610.60	65610.60	4.206
0.00	0.45	ø14/ 5	2	2	1(TG)	SLV	0.40	0.35	15567.10	1.00	75247.60	65424.50	65424.50	0.40	0.35	0.00	1.00	75247.60	65424.50	65424.50	4.203
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	613.33	2.50	20475.50	46851.30	20475.50	0.40	0.35	1350.71	2.50	20475.50	46851.30	20475.50	15.159
0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	45248.70	20475.50	0.40	0.35	15599.70	2.50	20475.50	45248.70	20475.50	1.313
0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	15567.10	2.50	20475.50	45120.40	20475.50	0.40	0.35	0.00	2.50	20475.50	45120.40	20475.50	1.315
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	613.33	2.50	30713.30	46851.30	30713.30	0.40	0.35	1350.71	2.50	30713.30	46851.30	30713.30	22.739
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	45248.70	30713.30	0.40	0.35	15599.70	2.50	30713.30	45248.70	30713.30	1.969
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	15567.10	2.50	30713.30	45120.40	30713.30	0.40	0.35	0.00	2.50	30713.30	45120.40	30713.30	1.973
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.35	149.08	2.50	30713.30	43450.10	30713.30	0.40	0.35	2229.36	2.50	30713.30	43450.10	30713.30	13.777
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	41020.80	30713.30	0.40	0.35	7256.60	2.50	30713.30	41020.80	30713.30	4.232
2.80	3.52	ø8/10	2	2	3(TG)	SLV	0.40	0.35	3650.22	2.50	30713.30	41015.00	30713.30	0.40	0.35	3590.10	2.50	30713.30	41015.00	30713.30	8.414
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.35	149.08	2.50	20475.50	43400.00	20475.50	0.40	0.35	2229.36	2.50	20475.50	43400.00	20475.50	9.184
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	41020.80	20475.50	0.40	0.35	7256.60	2.50	20475.50	41020.80	20475.50	2.822
3.52	6.38	ø8/15	2	2	3(TG)	SLV	0.40	0.35	3650.22	2.50	20475.50	41015.00	20475.50	0.40	0.35	3590.10	2.50	20475.50	41015.00	20475.50	5.609
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.35	149.08	2.50	30713.30	43199.30	30713.30	0.40	0.35	2229.36	2.50	30713.30	43199.30	30713.30	13.777
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	41020.80	30713.30	0.40	0.35	7256.60	2.50	30713.30	41020.80	30713.30	4.232
6.38	7.10	ø8/10	2	2	3(TG)	SLV	0.40	0.35	3650.22	2.50	30713.30	41015.00	30713.30	0.40	0.35	3590.10	2.50	30713.30	41015.00	30713.30	8.414

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.38493 ω_{wd}=0.87631 $\mu\Phi_d$=14.1813 v_d=0.20741 $E_{sy,d}$=0.0018995 b_c/b_0=1.26582 $\mu\Phi_c$=24.8856 0.33731 >= 0.17717 [7.4.29]
- CC=1 α_e=0.38493 ω_{wd}=0.87631 $\mu\Phi_d$=22.5728 v_d=0.20741 $E_{sy,d}$=0.0018995 b_c/b_0=1.26582 $\mu\Phi_c$=24.8856 0.33731 >= 0.30271 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
122	S	ø10/ 5	Y+	I	2	4.02	4.02	0.40	0.29	0.20	9.42
			Z+	I	2	22.87	13.45	0.50	0.29	0.20	9.42
			Y-	I	2	4.02	4.02	0.40	0.29	0.20	9.42
			Z-	I	2	22.87	13.45	0.50	0.29	0.20	9.42
322	S	ø8/10	Y+	I	2	4.02	4.02	0.40	0.30	0.20	3.02
			Z+	I	2	21.74	11.44	0.50	0.30	0.20	3.02
			Y-	I	2	4.02	4.02	0.40	0.30	0.20	3.02
			Z-	I	2	21.74	11.44	0.50	0.30	0.20	3.02

Pilastrata n. 23

Nodi: 23 -1001 -1120 -1240 123 323

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.10	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	6	0.00	2986.58	0.00	0.00	-1116.84	-1116.84	2986.58	0.00	-6864.15	6.146
0.00	1	SLV	1	6	0.00	2986.58	0.00	0.00	-1116.84	-1116.84	2986.58	0.00	-6864.15	6.146
0.93	1	SLV	1	6	93.33	3359.92	-229.63	-229.63	0.00	0.00	3359.92	-6823.92	0.00	29.716
0.93	9	SLU	2	6	0.00	-1492.81	-176.72	-176.72	0.00	0.00	-1492.81	-7336.49	0.00	41.514
1.62	1	SLV	2	6	68.33	-384.25	-157.26	-157.26	0.00	0.00	-384.25	-7220.13	0.00	45.913
1.62	9	SLU	3	6	0.00	-6610.53	-201.36	-201.36	0.00	0.00	-6610.53	-7867.98	0.00	39.074
2.30	1	SLV	3	6	68.33	-4286.92	102.10	102.10	0.00	0.00	-180984.00	7628.21	0.00	42.218
2.30	1	SLV	4	6	0.00	-7184.21	239.76	239.76	0.00	0.00	-180984.00	7927.04	0.00	25.192
2.80	9	SLU	4	6	50.00	-10178.40	3374.62	3374.62	0.00	0.00	-10178.40	8234.92	0.00	2.440
2.80	9	SLU	5	6	0.00	-15679.90	3977.34	3977.34	0.00	0.00	-15679.90	8790.50	0.00	2.210
2.80	9	SLU	5	6	0.00	-15679.90	3977.34	3977.34	0.00	0.00	-15679.90	8790.50	0.00	2.210
7.10	9	SLU	5	6	430.00	-13443.90	-8284.37	-8284.37	0.00	0.00	-13443.90	-8566.10	0.00	1.034

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	2447.45	-639.40	0.00	10.05	6.03	7.75	468.89
0.00	12	SLE Q	1	6	0.00	2260.70	-587.55	0.00	10.05	6.03	7.12	431.69
0.00	10	SLE R	1	6	0.00	2447.45	-639.40	0.00	10.05	6.03	7.75	468.89
0.00	12	SLE Q	1	6	0.00	2260.70	-587.55	0.00	10.05	6.03	7.12	431.69
0.93	10	SLE R	1	6	93.33	2820.79	0.00	-82.03	16.09	0.00	0.00	221.00
0.93	12	SLE Q	1	6	93.33	2634.04	0.00	-73.34	16.09	0.00	0.00	204.56
0.93	10	SLE R	2	6	0.00	-1015.08	0.00	-127.06	6.03	10.05	1.71	20.74
0.93	12	SLE Q	2	6	0.00	-924.39	0.00	-116.92	6.03	10.05	1.57	19.04
1.62	10	SLE R	2	6	68.33	-741.75	0.00	-87.28	6.03	10.05	1.18	14.46
1.62	12	SLE Q	2	6	68.33	-651.06	0.00	-74.69	6.03	10.05	1.01	12.45
1.62	10	SLE R	3	6	0.00	-4651.76	0.00	-141.08	0.00	16.09	3.64	50.33
1.62	12	SLE Q	3	6	0.00	-4268.87	0.00	-123.26	0.00	16.09	3.29	45.64
2.30	10	SLE R	3	6	68.33	-4378.43	0.00	71.79	0.00	16.09	2.94	42.00
2.30	12	SLE Q	3	6	68.33	-3995.54	0.00	64.74	0.00	16.09	2.68	38.26
2.30	10	SLE R	4	6	0.00	-7379.05	0.00	210.96	0.00	16.09	5.67	78.71

2.30	12	SLE Q	4	6	0.00	-6782.91	0.00	187.60	0.00	16.09	5.16	71.80
2.80	10	SLE R	4	6	50.00	-7179.05	0.00	2370.68	10.05	6.03	33.03	661.47
2.80	12	SLE Q	4	6	50.00	-6582.91	0.00	2087.79	10.05	6.03	29.07	567.33
2.80	10	SLE R	5	6	0.00	-11154.60	0.00	2794.02	10.05	6.03	38.65	627.50
2.80	12	SLE Q	5	6	0.00	-10265.50	0.00	2460.64	10.05	6.03	33.98	528.94
2.80	10	SLE R	5	6	0.00	-11154.60	0.00	2794.02	10.05	6.03	38.65	627.50
2.80	12	SLE Q	5	6	0.00	-10265.50	0.00	2460.64	10.05	6.03	33.98	528.94
7.10	10	SLE R	5	6	430.00	-9434.61	0.00	-5822.49	10.05	6.03	81.23	2125.56
7.10	12	SLE Q	5	6	430.00	-8545.52	0.00	-5138.07	10.05	6.03	71.69	1861.80

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	6	0.00	2260.70	0.00	-587.55	43.00	149.00	1.00	16.00	319.98	6.03	441.05	431.69	0.13	0.07
0.00	11	SLE F	1	6	0.00	2296.92	0.00	-599.30	43.00	149.00	1.00	16.00	319.89	6.03	440.89	439.69	0.13	0.07
0.00	12	SLE Q	1	6	0.00	2260.70	0.00	-587.55	43.00	149.00	1.00	16.00	319.98	6.03	441.05	431.69	0.13	0.07
0.00	11	SLE F	1	6	0.00	2296.92	0.00	-599.30	43.00	149.00	1.00	16.00	319.89	6.03	440.89	439.69	0.13	0.07
0.93	12	SLE Q	1	6	93.33	2634.04	0.00	-62.44	43.00	210.72	1.00	16.00	362.47	16.09	1389.73	198.49	0.06	0.04
0.93	11	SLE F	1	6	93.33	2670.26	0.00	-63.20	43.00	210.72	1.00	16.00	362.47	16.09	1389.73	201.17	0.06	0.04
2.80	12	SLE Q	4	6	50.00	-6582.91	2087.79	0.00	43.00	149.01	0.50	16.00	173.83	6.03	331.11	567.33	0.17	0.05
2.80	11	SLE F	4	6	50.00	-6699.35	2141.54	0.00	43.00	149.01	0.50	16.00	173.98	6.03	331.70	585.02	0.17	0.05
2.80	12	SLE Q	5	6	0.00	-10265.50	2460.64	0.00	43.00	149.01	0.50	16.00	166.89	6.03	304.97	528.94	0.15	0.04
2.80	11	SLE F	5	6	0.00	-10431.90	2524.07	0.00	43.00	149.01	0.50	16.00	167.18	6.03	306.04	547.80	0.16	0.05
2.80	12	SLE Q	5	6	0.00	-10265.50	2460.64	0.00	43.00	149.01	0.50	16.00	166.89	6.03	304.97	528.94	0.15	0.04
2.80	11	SLE F	5	6	0.00	-10431.90	2524.07	0.00	43.00	149.01	0.50	16.00	167.18	6.03	306.04	547.80	0.16	0.05
7.10	12	SLE Q	5	6	430.00	-8545.52	-5138.07	0.00	43.00	149.01	0.50	16.00	182.28	6.03	362.96	1861.80	0.54	0.17
7.10	11	SLE F	5	6	430.00	-8711.92	-5267.23	0.00	43.00	149.01	0.50	16.00	182.32	6.03	363.14	1911.66	0.56	0.17

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.47	ø8/10	2	2	9	SLU	0.40	0.35	868.26	2.50	30713.30	37481.00	30713.30	0.40	0.35	679.17	2.50	30713.30	37481.00	30713.30	35.373
0.00	0.47	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	38421.50	30713.30	0.40	0.35	8376.04	2.50	30713.30	38421.50	30713.30	3.667
0.00	0.47	ø8/10	2	2	1(TG)	SLV	0.40	0.35	8375.58	2.50	30713.30	38421.20	30713.30	0.40	0.35	0.00	2.50	30713.30	38421.20	30713.30	3.667
0.47	2.33	ø8/15	2	2	9	SLU	0.40	0.35	1456.63	2.50	20475.50	38883.80	20475.50	0.40	0.35	6151.65	2.50	20475.50	38883.80	20475.50	3.328
0.47	2.33	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	38421.50	20475.50	0.40	0.35	8376.04	2.50	20475.50	38421.50	20475.50	2.445
0.47	2.33	ø8/15	2	2	1(TG)	SLV	0.40	0.35	8375.58	2.50	20475.50	38421.20	20475.50	0.40	0.35	0.00	2.50	20475.50	38421.20	20475.50	2.445
2.33	2.80	ø8/10	2	2	9	SLU	0.40	0.35	1456.63	2.50	30713.30	38883.80	30713.30	0.40	0.35	6151.65	2.50	30713.30	38883.80	30713.30	4.993
2.33	2.80	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	38421.50	30713.30	0.40	0.35	8376.04	2.50	30713.30	38421.50	30713.30	3.667
2.33	2.80	ø8/10	2	2	1(TG)	SLV	0.40	0.35	8375.58	2.50	30713.30	38421.20	30713.30	0.40	0.35	0.00	2.50	30713.30	38421.20	30713.30	3.667
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.35	667.26	2.50	30713.30	39591.70	30713.30	0.40	0.35	2851.56	2.50	30713.30	39591.70	30713.30	10.771
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	38666.20	30713.30	0.40	0.35	5980.18	2.50	30713.30	38666.20	30713.30	5.136
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.40	0.35	5980.17	2.50	30713.30	38666.30	30713.30	0.40	0.35	0.00	2.50	30713.30	38666.30	30713.30	5.136
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.35	667.26	2.50	20475.50	39541.60	20475.50	0.40	0.35	2851.56	2.50	20475.50	39541.60	20475.50	7.180
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	38666.20	20475.50	0.40	0.35	5980.18	2.50	20475.50	38666.20	20475.50	3.424
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.40	0.35	5980.17	2.50	20475.50	38666.30	20475.50	0.40	0.35	0.00	2.50	20475.50	38666.30	20475.50	3.424
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.35	667.26	2.50	30713.30	39340.90	30713.30	0.40	0.35	2851.56	2.50	30713.30	39340.90	30713.30	10.771
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	38666.20	30713.30	0.40	0.35	5980.18	2.50	30713.30	38666.20	30713.30	5.136
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.35	5980.17	2.50	30713.30	38666.30	30713.30	0.40	0.35	0.00	2.50	30713.30	38666.30	30713.30	5.136

Dettagli costruttivi per la duttilità

- α_e=0.30612 ω_{wd}=0.1404 $\mu\Phi_d$=14.1813 v_d=0 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224
  0.04298 >= -0.035 [7.4.29]
- α_e=0.30612 ω_{wd}=0.1404 $\mu\Phi_d$=22.5728 v_d=0 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224
  0.04298 >= -0.035 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
323	N	ø10/ 6	Y-	E	2	4.02	4.02	0.40	0.29	0.20	7.85
			Z-	E	2	8.29	8.04	0.50	0.29	0.20	7.85

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
323	Y-	1	SLV	0.00	17308.80	0.00	2.98	86166.20	20493.20	384162.00	---	---
	Z-	1	SLV	0.00	35699.40	0.00	2.98	107707.00	292284.00	307330.00	---	---

Pilastrata n. 24

Nodi: 24 -1007 -1126 -1246 124 324

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	40.00	40.00	5.10	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04
6	R	40.00	40.00	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	9	SLU	1	6	0.00	-9261.79	0.00		0.00	-5551.70		-5551.70	-9261.79	0.00	-8141.81	1.467
0.00	9	SLU	1	6	0.00	-9261.79	0.00		0.00	-5551.70		-5551.70	-9261.79	0.00	-8141.81	1.467
0.93	9	SLU	1	6	93.33	-8776.45	0.00		0.00	-4805.53		-4805.53	-8776.45	0.00	-8091.55	1.684
0.93	9	SLU	2	6	0.00	-11242.40	0.00		0.00	-4052.48		-4052.48	-11242.40	0.00	-8342.98	2.059
1.62	9	SLU	2	6	68.33	-10887.10	0.00		0.00	-2584.03		-2584.03	-10887.10	0.00	-8306.59	3.215
1.62	9	SLU	3	6	0.00	-13750.70	0.00		0.00	-1864.29		-1864.29	-13750.70	0.00	-8597.66	4.612
2.30	5	SLV	3	6	68.33	-8119.16	0.00		0.00	-609.58		-609.58	-8119.16	0.00	-8023.91	13.163
2.30	5(e)	SLV	4	6	0.00	-13846.00	26.23		276.92	0.00		0.00	-180984.00	8607.15	0.00	13.071

2.50	1(α)	SLV	4	6	20.00	-13245.40	0.00	1.00	0.00	1397.34	2.82	3943.71	-13245.40	0.00	8546.01	2.167
2.80	3(α)	SLV	5	6	0.00	-17627.40	0.00	1.00	0.00	1762.47	2.96	5214.31	-17627.40	0.00	8984.81	1.723
2.80	3(α)	SLV	5	6	0.00	-17627.40	0.00	1.00	0.00	1762.47	2.96	5214.31	-17627.40	0.00	8984.81	1.723
7.10	9	SLU	5	6	430.00	-25621.40	3239.57		3239.57	0.00		0.00	-25621.40	9763.88	0.00	3.014

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	6	0.00	-6661.28	-4019.72	0.00	10.05	6.03	56.09	1458.09
0.00	12	SLE Q	1	6	0.00	-6132.53	-3764.07	0.00	10.05	6.03	52.52	1371.99
0.00	10	SLE R	1	6	0.00	-6661.28	-4019.72	0.00	10.05	6.03	56.09	1458.09
0.00	12	SLE Q	1	6	0.00	-6132.53	-3764.07	0.00	10.05	6.03	52.52	1371.99
0.93	10	SLE R	1	6	93.33	-6287.95	-3479.15	0.00	10.05	6.03	48.57	1229.11
0.93	12	SLE Q	1	6	93.33	-5759.20	-3255.12	0.00	10.05	6.03	45.43	1157.74
0.93	10	SLE R	2	6	0.00	-8018.82	-2933.62	0.00	10.05	6.03	40.93	869.74
0.93	12	SLE Q	2	6	0.00	-7298.33	-2742.30	0.00	10.05	6.03	38.27	824.85
1.62	10	SLE R	2	6	68.33	-7745.49	-1870.50	0.00	10.05	6.03	25.84	405.16
1.62	12	SLE Q	2	6	68.33	-7024.99	-1744.30	0.00	10.05	6.03	24.12	388.44
1.62	10	SLE R	3	6	0.00	-9763.14	-1349.53	0.00	6.03	10.05	18.14	215.79
1.62	12	SLE Q	3	6	0.00	-8819.35	-1255.32	0.00	6.03	10.05	16.88	199.62
2.30	10	SLE R	3	6	68.33	-9489.81	-250.85	0.00	0.00	16.09	7.13	99.42
2.30	12	SLE Q	3	6	68.33	-8546.02	-222.77	0.00	0.00	16.09	6.40	89.26
2.30	10	SLE R	4	6	0.00	-15104.10	-74.97	0.00	0.00	16.09	8.79	129.66
2.30	12	SLE Q	4	6	0.00	-13568.80	-59.98	0.00	0.00	16.09	7.84	115.83
2.50	10	SLE R	4	6	20.00	-15024.10	673.51	0.00	0.00	16.09	13.47	181.77
2.50	12	SLE Q	4	6	20.00	-13488.80	647.35	0.00	0.00	16.09	12.43	166.96
2.80	10	SLE R	5	6	0.00	-19776.50	1296.74	0.00	0.00	16.09	20.97	275.44
2.80	12	SLE Q	5	6	0.00	-17738.70	1211.68	0.00	0.00	16.09	19.19	251.34
2.80	10	SLE R	5	6	0.00	-19776.50	1296.74	0.00	0.00	16.09	20.97	275.44
2.80	12	SLE Q	5	6	0.00	-17738.70	1211.68	0.00	0.00	16.09	19.19	251.34
7.10	10	SLE R	5	6	430.00	-18056.50	0.00	2278.36	6.03	10.05	30.65	371.23
7.10	12	SLE Q	5	6	430.00	-16018.70	0.00	2022.00	6.03	10.05	27.20	329.43

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	wk <mm>
0.00	12	SLE Q	1	6	0.00	-6132.53	0.00	-3764.07	43.00	149.00	0.50	16.00	182.45	6.03	363.61	1371.99	0.40	0.12
0.00	11	SLE F	1	6	0.00	-6238.31	0.00	-3812.12	43.00	149.00	0.50	16.00	182.41	6.03	363.47	1387.77	0.40	0.13
0.00	12	SLE Q	1	6	0.00	-6132.53	0.00	-3764.07	43.00	149.00	0.50	16.00	182.45	6.03	363.61	1371.99	0.40	0.12
0.00	11	SLE F	1	6	0.00	-6238.31	0.00	-3812.12	43.00	149.00	0.50	16.00	182.41	6.03	363.47	1387.77	0.40	0.13
0.93	12	SLE Q	1	6	93.33	-5759.20	0.00	-3255.12	43.00	149.00	0.50	16.00	181.73	6.03	360.91	1157.74	0.34	0.10
0.93	11	SLE F	1	6	93.33	-5864.98	0.00	-3297.51	43.00	149.00	0.50	16.00	181.68	6.03	360.73	1170.88	0.34	0.11
0.93	12	SLE Q	2	6	0.00	-7298.33	0.00	-2742.30	43.00	149.00	0.50	16.00	176.82	6.03	342.39	824.85	0.24	0.07
0.93	11	SLE F	2	6	0.00	-7444.24	0.00	-2778.74	43.00	149.00	0.50	16.00	176.71	6.03	342.00	832.88	0.24	0.07
1.62	12	SLE Q	2	6	68.33	-7024.99	0.00	-1744.30	43.00	149.00	0.50	16.00	167.94	6.03	308.91	388.44	0.11	0.03
1.62	11	SLE F	2	6	68.33	-7170.91	0.00	-1768.77	43.00	149.00	0.50	16.00	167.75	6.03	308.19	391.34	0.11	0.03
1.62	12	SLE Q	3	6	0.00	-8819.35	0.00	-1255.32	43.00	149.00	0.50	16.00	142.32	6.03	212.34	113.88	0.03	0.01
1.62	11	SLE F	3	6	0.00	-9009.09	0.00	-1273.91	43.00	149.00	0.50	16.00	141.88	6.03	210.67	113.63	0.03	0.01

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.45	ø8/10	2	2	9	SLU	0.40	0.35	799.47	2.50	30713.30	38727.80	30713.30	0.40	0.35	221.14	2.50	30713.30	38727.80	30713.30	38.417
0.00	0.45	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	39329.90	30713.30	0.40	0.35	10376.60	2.50	30713.30	39329.90	30713.30	2.960
0.00	0.45	ø8/10	2	2	1(TG)	SLV	0.40	0.35	10376.60	2.50	30713.30	39329.60	30713.30	0.40	0.35	0.00	2.50	30713.30	39329.60	30713.30	2.960
0.45	2.05	ø8/15	2	2	9	SLU	0.40	0.35	2221.41	2.50	20475.50	39301.70	20475.50	0.40	0.35	221.14	2.50	20475.50	39301.70	20475.50	9.217
0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	39329.90	20475.50	0.40	0.35	10376.60	2.50	20475.50	39329.90	20475.50	1.973
0.45	2.05	ø8/15	2	2	1(TG)	SLV	0.40	0.35	10376.60	2.50	20475.50	39329.60	20475.50	0.40	0.35	0.00	2.50	20475.50	39329.60	20475.50	1.973
2.05	2.50	ø8/10	2	2	9	SLU	0.40	0.35	5172.72	2.50	30713.30	40336.90	30713.30	0.40	0.35	3322.42	2.50	30713.30	40336.90	30713.30	5.938
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	39329.90	30713.30	0.40	0.35	10376.60	2.50	30713.30	39329.90	30713.30	2.960
2.05	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.35	10376.60	2.50	30713.30	39329.60	30713.30	0.40	0.35	0.00	2.50	30713.30	39329.60	30713.30	2.960
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.35	511.74	2.50	30713.30	41231.00	30713.30	0.40	0.35	1172.39	2.50	30713.30	41231.00	30713.30	26.197
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	39673.20	30713.30	0.40	0.35	6531.56	2.50	30713.30	39673.20	30713.30	4.702
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.35	6535.11	2.50	30713.30	39679.50	30713.30	0.40	0.35	0.00	2.50	30713.30	39679.50	30713.30	4.700
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.35	511.74	2.50	20475.50	41180.80	20475.50	0.40	0.35	1172.39	2.50	20475.50	41180.80	20475.50	17.465
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	20475.50	39673.20	20475.50	0.40	0.35	6531.56	2.50	20475.50	39673.20	20475.50	3.135
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.35	6535.11	2.50	20475.50	39679.50	20475.50	0.40	0.35	0.00	2.50	20475.50	39679.50	20475.50	3.133
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.35	511.74	2.50	30713.30	40980.10	30713.30	0.40	0.35	1172.39	2.50	30713.30	40980.10	30713.30	26.197
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.35	0.00	2.50	30713.30	39673.20	30713.30	0.40	0.35	6531.56	2.50	30713.30	39673.20	30713.30	4.702
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.35	6535.11	2.50	30713.30	39679.50	30713.30	0.40	0.35	0.00	2.50	30713.30	39679.50	30713.30	4.700

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.30612 ω_{wd}=0.1404 $\mu\Phi_d$=14.1813 v_d=0.025296 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=43.5475 0.04298 >= -0.00961 [7.4.29]
- CC=1 α_e=0.30612 ω_{wd}=0.1404 $\mu\Phi_d$=22.5728 v_d=0.025296 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=43.5475 0.04298 >= 0.00542 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
124	N	ø8/10	Y-	E	2	4.02	4.02	0.40	0.30	0.20	3.02
324	N	ø16/ 5	Z+	I	2	12.31	6.03	0.50	0.28	0.20	24.13
			Y-	E	2	4.02	4.02	0.40	0.28	0.20	24.13
			Z-	I	2	12.31	6.03	0.50	0.28	0.20	24.13

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
124	Y-	1	SLV	-754.59	16554.20	6.28	4.76	80566.40	0.00	147518.00	---	---
		5	SLV	-754.59	16554.20	6.48	4.94	80334.80	0.00	147518.00	---	---
324	Z+	1	SLV	0.00	78971.50	0.00	5.66	129139.00	2147540.00	944117.00	78971.50	94411.70
	Y-	1	SLV	0.00	17308.80	0.00	5.66	82649.30	34207.30	1180150.00	---	---
	Z-	1	SLV	0.00	78971.50	0.00	5.66	129139.00	2147540.00	944117.00	78971.50	94411.70

Verifiche e armature solette/platee

Simbologia

Δ_{sm} = Distanza media tra le fessure
Φ_{eq} = Diametro equivalente delle barre
β (u_0) = Coeff. amplificativo dello sforzo di punzonamento sul perimetro u_0
β (u_1) = Coeff. amplificativo dello sforzo di punzonamento sul perimetro u_1
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
ν = Coeff. di riduzione della resistenza per il calcestruzzo fessurato a taglio
ρ_l = Rapporto d'armatura longitudinale (*1000)
σ_c = Tensione nel calcestruzzo
σ_f = Tensione nel ferro
σ_s = Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
A_{sw} = Area di armatura a taglio a punzonamento
AfE I = Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfE S = Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE St. = Area di ferro effettiva della staffatura
CC = Numero della combinazione delle condizioni di carico elementari
Cf inf = Copriferro inferiore
Cf sup = Copriferro superiore
Cls = Tipo di calcestruzzo
DV = Direzione di verifica
XX = Verifica per momento Mxx
YY = Verifica per momento Myy
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
K_2 = Coefficiente per distribuzione deformazioni
M'ydy = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
Mom = Momento flettente
My = Momento flettente intorno all'asse Y
Mz = Momento intorno all'asse Z
Nodo = Numero del nodo
Pil = Numero del pilastro
Sic. = Sicurezza
Spess. = Spessore
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tp = Tipo di acciaio
$V_{Ed,red}$ (u_0) = Valore di progetto del taglio agente ridotto sul perimetro u_0
$V_{Ed,red}$ (u_1) = Valore di progetto del taglio agente ridotto sul perimetro u_1
$V_{Rd,c}$ = Resistenza di progetto a punzonamento
$V_{Rd,cs}$ = Resistenza a taglio punzonamento
$V_{Rd,max}$ = Valore di progetto del max taglio punzonamento resistente lungo la sez. di verifica
VRcd = Taglio ultimo lato calcestruzzo
VRsd = Taglio ultimo lato armatura
Vrdu = Taglio ultimo resistente
Vsdu = Taglio agente nella direzione del momento ultimo
Wk = Ampiezza caratteristica delle fessure
X = Coordinata X del nodo
Y = Coordinata Y del nodo
a = Distanza dal contorno del pilastro al perimetro di verifica considerato
c = Ricoprimento dell'armatura
ctgθ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
d = Media delle altezze utili nelle due direzioni ortogonali
s = Distanza massima tra le barre
u_0 = Perimetro del pilastro
u_1 = Perimetro di verifica di base
$u_{out,ef}$ = Perimetro u_{out} efficace oltre il quale non sono più richieste armature
v_{Ed} (u_0) = Tensione max di taglio sul perimetro u_0
v_{Ed} (u_1) = Tensione max di taglio sul perimetro u_1

Armatura platea a quota 0.00

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
40.00	4.00	4.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	MRdy <daNm>	Sic.
11	10.25	16.84	XX	9	SLU	7.70	7.70	8382.25	10833.20	1.292

-882	0.88	37.91	XX	9	SLU	7.70	7.70	-357.59	-10833.20	30.295
-719	2.62	32.51	XX	9	SLU	7.70	7.70	-9034.69	-10833.20	1.199
2	5.25	4.99	XX	9	SLU	10.52	10.52	8690.20	14441.70	1.662
-119	12.99	4.99	XX	9	SLU	10.52	10.52	-6135.54	-14441.70	2.354
-112	6.14	4.99	XX	9	SLU	10.52	10.52	2538.09	14441.70	5.690
7	10.25	11.04	XX	9	SLU	10.52	10.52	8972.68	14441.70	1.610
-259	9.72	11.04	XX	9	SLU	10.52	10.52	5873.11	14441.70	2.459
-252	2.62	11.04	XX	9	SLU	10.52	10.52	-7718.13	-14441.70	1.871
-181	12.99	7.58	XX	9	SLU	7.70	10.52	-5147.75	-10855.20	2.109
-170	3.50	7.58	XX	9	SLU	7.70	10.52	-2850.25	-10855.20	3.809
-172	5.25	7.58	XX	9	SLU	7.70	10.52	272.42	14429.90	52.969
-730	12.99	32.51	YY	9	SLU	7.70	7.70	6592.76	10833.20	1.643
-804	4.38	35.21	YY	9	SLU	7.70	7.70	-6670.34	-10833.20	1.624
-631	15.70	28.18	YY	9	SLU	7.70	7.70	2990.46	10833.20	3.623
-92	5.25	4.79	YY	9	SLU	10.52	10.52	12352.30	14441.70	1.169
-98	10.25	4.79	YY	9	SLU	10.52	10.52	9827.83	14441.70	1.469
-43	5.25	1.92	YY	9	SLU	10.52	10.52	-4741.69	-14441.70	3.046
-15	5.25	0.00	YY	9	SLU	10.52	7.70	-1138.68	-14429.90	12.672
7	10.25	11.04	YY	9	SLU	10.52	10.52	9577.75	14441.70	1.508
-241	10.25	10.18	YY	9	SLU	10.52	10.52	4149.42	14441.70	3.480
-118	12.07	4.99	YY	9	SLU	7.70	10.52	2765.61	14429.90	5.218
-37	12.07	0.96	YY	9	SLU	7.70	10.52	-2118.09	-10855.20	5.125
-51	12.07	1.92	YY	9	SLU	7.70	10.52	-3717.57	-10855.20	2.920
-315	5.25	13.94	YY	9	SLU	10.52	10.52	-4977.17	-14441.70	2.902
-193	5.25	8.45	YY	9	SLU	10.52	7.70	-6307.18	-14429.90	2.288
-199	10.25	8.45	YY	9	SLU	10.52	7.70	-5022.59	-14429.90	2.873
-437	5.25	19.74	YY	9	SLU	7.70	10.52	-5166.34	-10855.20	2.101
-437	5.25	19.74	YY	9	SLU	7.70	10.52	-5166.34	-10855.20	2.101

Stato limite elastico - Verifiche a flessione/pressoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
11	10.25	16.84	XX	1	SLV(E)	7.70	7.70	6188.74	10058.50	1.625
11	10.25	16.84	XX	1	SLV(E)	7.70	7.70	4868.96	10058.50	2.066
11	10.25	16.84	XX	3	SLV(E)	7.70	7.70	5980.08	10058.50	1.682
11	10.25	16.84	XX	3	SLV(E)	7.70	7.70	5077.62	10058.50	1.981
11	10.25	16.84	XX	5	SLV(E)	7.70	7.70	6043.28	10058.50	1.664
11	10.25	16.84	XX	5	SLV(E)	7.70	7.70	5014.41	10058.50	2.006
11	10.25	16.84	XX	7	SLV(E)	7.70	7.70	5709.95	10058.50	1.762
11	10.25	16.84	XX	7	SLV(E)	7.70	7.70	5347.75	10058.50	1.881
-882	0.88	37.91	XX	1	SLV(E)	7.70	7.70	-10.04	-10058.50	>100
-882	0.88	37.91	XX	1	SLV(E)	7.70	7.70	-499.89	-10058.50	20.122
-882	0.88	37.91	XX	3	SLV(E)	7.70	7.70	-42.48	-10058.50	>100
-882	0.88	37.91	XX	3	SLV(E)	7.70	7.70	-467.44	-10058.50	21.518
-882	0.88	37.91	XX	5	SLV(E)	7.70	7.70	-132.28	-10058.50	76.042
-882	0.88	37.91	XX	5	SLV(E)	7.70	7.70	-377.65	-10058.50	26.635
-882	0.88	37.91	XX	7	SLV(E)	7.70	7.70	-269.50	-10058.50	37.323
-882	0.88	37.91	XX	7	SLV(E)	7.70	7.70	-240.43	-10058.50	41.836
-719	2.62	32.51	XX	1	SLV(E)	7.70	7.70	-4794.95	-10058.50	2.098
-719	2.62	32.51	XX	1	SLV(E)	7.70	7.70	-8064.58	-10058.50	1.247
-719	2.62	32.51	XX	3	SLV(E)	7.70	7.70	-5072.83	-10058.50	1.983
-719	2.62	32.51	XX	3	SLV(E)	7.70	7.70	-7786.70	-10058.50	1.292
-719	2.62	32.51	XX	5	SLV(E)	7.70	7.70	-5517.87	-10058.50	1.823
-719	2.62	32.51	XX	5	SLV(E)	7.70	7.70	-7341.66	-10058.50	1.370
-719	2.62	32.51	XX	7	SLV(E)	7.70	7.70	-6415.39	-10058.50	1.568
-719	2.62	32.51	XX	7	SLV(E)	7.70	7.70	-6444.13	-10058.50	1.561
2	5.25	4.99	XX	1	SLV(E)	10.52	10.52	10659.60	13611.30	1.277
2	5.25	4.99	XX	1	SLV(E)	10.52	10.52	1937.68	13611.30	7.025
2	5.25	4.99	XX	3	SLV(E)	10.52	10.52	10308.80	13611.30	1.320
2	5.25	4.99	XX	3	SLV(E)	10.52	10.52	2288.52	13611.30	5.948
2	5.25	4.99	XX	5	SLV(E)	10.52	10.52	8139.04	13611.30	1.672
2	5.25	4.99	XX	5	SLV(E)	10.52	10.52	4458.24	13611.30	3.053
2	5.25	4.99	XX	7	SLV(E)	10.52	10.52	5627.71	13611.30	2.419
2	5.25	4.99	XX	7	SLV(E)	10.52	10.52	6969.56	13611.30	1.953
-119	12.99	4.99	XX	1	SLV(E)	10.52	10.52	-3347.55	-13611.30	4.066
-119	12.99	4.99	XX	1	SLV(E)	10.52	10.52	-5295.13	-13611.30	2.571
-119	12.99	4.99	XX	3	SLV(E)	10.52	10.52	-3512.91	-13611.30	3.875
-119	12.99	4.99	XX	3	SLV(E)	10.52	10.52	-5129.77	-13611.30	2.653
-119	12.99	4.99	XX	5	SLV(E)	10.52	10.52	-3778.42	-13611.30	3.602
-119	12.99	4.99	XX	5	SLV(E)	10.52	10.52	-4864.26	-13611.30	2.798
-119	12.99	4.99	XX	7	SLV(E)	10.52	10.52	-4313.09	-13611.30	3.156
-119	12.99	4.99	XX	7	SLV(E)	10.52	10.52	-4329.59	-13611.30	3.144
-112	6.14	4.99	XX	1	SLV(E)	10.52	10.52	5034.31	13611.30	2.704
-112	6.14	4.99	XX	1	SLV(E)	10.52	10.52	-1141.55	-13611.30	11.924
-112	6.14	4.99	XX	3	SLV(E)	10.52	10.52	4688.29	13611.30	2.903
-112	6.14	4.99	XX	3	SLV(E)	10.52	10.52	-795.52	-13611.30	17.110
-112	6.14	4.99	XX	5	SLV(E)	10.52	10.52	3397.56	13611.30	4.006
-112	6.14	4.99	XX	5	SLV(E)	10.52	10.52	495.20	13611.30	27.486
-112	6.14	4.99	XX	7	SLV(E)	10.52	10.52	1648.61	13611.30	8.256
-112	6.14	4.99	XX	7	SLV(E)	10.52	10.52	2244.15	13611.30	6.065
7	10.25	11.04	XX	1	SLV(E)	10.52	10.52	6595.50	13611.30	2.064
7	10.25	11.04	XX	1	SLV(E)	10.52	10.52	5253.41	13611.30	2.591
7	10.25	11.04	XX	3	SLV(E)	10.52	10.52	6498.04	13611.30	2.095
7	10.25	11.04	XX	3	SLV(E)	10.52	10.52	5350.88	13611.30	2.544
7	10.25	11.04	XX	5	SLV(E)	10.52	10.52	6273.59	13611.30	2.170

7	10.25	11.04	XX	5	SLV(E)	10.52	10.52	5575.32	13611.30	2.441
7	10.25	11.04	XX	7	SLV(E)	10.52	10.52	5900.20	13611.30	2.307
7	10.25	11.04	XX	7	SLV(E)	10.52	10.52	5948.71	13611.30	2.288
-259	9.72	11.04	XX	1	SLV(E)	10.52	10.52	4550.30	13611.30	2.991
-259	9.72	11.04	XX	1	SLV(E)	10.52	10.52	3162.11	13611.30	4.304
-259	9.72	11.04	XX	3	SLV(E)	10.52	10.52	4441.70	13611.30	3.064
-259	9.72	11.04	XX	3	SLV(E)	10.52	10.52	3270.71	13611.30	4.162
-259	9.72	11.04	XX	5	SLV(E)	10.52	10.52	4229.15	13611.30	3.218
-259	9.72	11.04	XX	5	SLV(E)	10.52	10.52	3483.26	13611.30	3.908
-259	9.72	11.04	XX	7	SLV(E)	10.52	10.52	3845.27	13611.30	3.540
-259	9.72	11.04	XX	7	SLV(E)	10.52	10.52	3867.13	13611.30	3.520
-252	2.62	11.04	XX	1	SLV(E)	10.52	10.52	-4424.80	-13611.30	3.076
-252	2.62	11.04	XX	1	SLV(E)	10.52	10.52	-6266.67	-13611.30	2.172
-252	2.62	11.04	XX	3	SLV(E)	10.52	10.52	-4722.17	-13611.30	2.882
-252	2.62	11.04	XX	3	SLV(E)	10.52	10.52	-5969.30	-13611.30	2.280
-252	2.62	11.04	XX	5	SLV(E)	10.52	10.52	-4618.43	-13611.30	2.947
-252	2.62	11.04	XX	5	SLV(E)	10.52	10.52	-6073.04	-13611.30	2.241
-252	2.62	11.04	XX	7	SLV(E)	10.52	10.52	-5081.78	-13611.30	2.678
-252	2.62	11.04	XX	7	SLV(E)	10.52	10.52	-5609.69	-13611.30	2.426
-181	12.99	7.58	XX	1	SLV(E)	7.70	10.52	-2757.28	-10053.80	3.646
-181	12.99	7.58	XX	1	SLV(E)	7.70	10.52	-4529.28	-10053.80	2.220
-181	12.99	7.58	XX	3	SLV(E)	7.70	10.52	-2828.90	-10053.80	3.554
-181	12.99	7.58	XX	3	SLV(E)	7.70	10.52	-4457.66	-10053.80	2.255
-181	12.99	7.58	XX	5	SLV(E)	7.70	10.52	-3268.86	-10053.80	3.076
-181	12.99	7.58	XX	5	SLV(E)	7.70	10.52	-4017.71	-10053.80	2.502
-181	12.99	7.58	XX	7	SLV(E)	7.70	10.52	-3778.97	-10053.80	2.660
-181	12.99	7.58	XX	7	SLV(E)	7.70	10.52	-3507.59	-10053.80	2.866
-170	3.50	7.58	XX	1	SLV(E)	7.70	10.52	-1167.88	-10053.80	8.609
-170	3.50	7.58	XX	1	SLV(E)	7.70	10.52	-2799.44	-10053.80	3.591
-170	3.50	7.58	XX	3	SLV(E)	7.70	10.52	-1383.72	-10053.80	7.266
-170	3.50	7.58	XX	3	SLV(E)	7.70	10.52	-2583.60	-10053.80	3.891
-170	3.50	7.58	XX	5	SLV(E)	7.70	10.52	-1411.57	-10053.80	7.122
-170	3.50	7.58	XX	5	SLV(E)	7.70	10.52	-2555.75	-10053.80	3.934
-170	3.50	7.58	XX	7	SLV(E)	7.70	10.52	-1836.29	-10053.80	5.475
-170	3.50	7.58	XX	7	SLV(E)	7.70	10.52	-2131.03	-10053.80	4.718
-172	5.25	7.58	XX	1	SLV(E)	7.70	10.52	1501.52	13610.50	9.065
-172	5.25	7.58	XX	1	SLV(E)	7.70	10.52	-1059.39	-10053.80	9.490
-172	5.25	7.58	XX	3	SLV(E)	7.70	10.52	1376.58	13610.50	9.887
-172	5.25	7.58	XX	3	SLV(E)	7.70	10.52	-934.46	-10053.80	10.759
-172	5.25	7.58	XX	5	SLV(E)	7.70	10.52	794.69	13610.50	17.127
-172	5.25	7.58	XX	5	SLV(E)	7.70	10.52	-352.57	-10053.80	28.516
-172	5.25	7.58	XX	7	SLV(E)	7.70	10.52	63.90	13610.50	>100
-172	5.25	7.58	XX	7	SLV(E)	7.70	10.52	378.22	13610.50	35.985
-730	12.99	32.51	YY	1	SLV(E)	7.70	7.70	8077.90	10058.50	1.245
-730	12.99	32.51	YY	1	SLV(E)	7.70	7.70	2453.66	10058.50	4.099
-730	12.99	32.51	YY	3	SLV(E)	7.70	7.70	7147.04	10058.50	1.407
-730	12.99	32.51	YY	3	SLV(E)	7.70	7.70	3384.52	10058.50	2.972
-730	12.99	32.51	YY	5	SLV(E)	7.70	7.70	7521.22	10058.50	1.337
-730	12.99	32.51	YY	5	SLV(E)	7.70	7.70	3010.34	10058.50	3.341
-730	12.99	32.51	YY	7	SLV(E)	7.70	7.70	6113.21	10058.50	1.645
-730	12.99	32.51	YY	7	SLV(E)	7.70	7.70	4418.35	10058.50	2.277
-804	4.38	35.21	YY	1	SLV(E)	7.70	7.70	-3841.06	-10058.50	2.619
-804	4.38	35.21	YY	1	SLV(E)	7.70	7.70	-5730.52	-10058.50	1.755
-804	4.38	35.21	YY	3	SLV(E)	7.70	7.70	-4216.35	-10058.50	2.386
-804	4.38	35.21	YY	3	SLV(E)	7.70	7.70	-5355.23	-10058.50	1.878
-804	4.38	35.21	YY	5	SLV(E)	7.70	7.70	-3933.18	-10058.50	2.557
-804	4.38	35.21	YY	5	SLV(E)	7.70	7.70	-5638.40	-10058.50	1.784
-804	4.38	35.21	YY	7	SLV(E)	7.70	7.70	-4387.43	-10058.50	2.293
-804	4.38	35.21	YY	7	SLV(E)	7.70	7.70	-5184.15	-10058.50	1.940
-631	15.70	28.18	YY	1	SLV(E)	7.70	7.70	3182.54	10058.50	3.161
-631	15.70	28.18	YY	1	SLV(E)	7.70	7.70	219.29	10058.50	45.868
-631	15.70	28.18	YY	3	SLV(E)	7.70	7.70	2966.76	10058.50	3.390
-631	15.70	28.18	YY	3	SLV(E)	7.70	7.70	435.08	10058.50	23.119
-631	15.70	28.18	YY	5	SLV(E)	7.70	7.70	2472.67	10058.50	4.068
-631	15.70	28.18	YY	5	SLV(E)	7.70	7.70	929.16	10058.50	10.825
-631	15.70	28.18	YY	7	SLV(E)	7.70	7.70	1648.44	10058.50	6.102
-631	15.70	28.18	YY	7	SLV(E)	7.70	7.70	1753.40	10058.50	5.737
-92	5.25	4.79	YY	1	SLV(E)	10.52	10.52	13546.10	13611.30	1.005
-92	5.25	4.79	YY	1	SLV(E)	10.52	10.52	4070.69	13611.30	3.344
-92	5.25	4.79	YY	3	SLV(E)	10.52	10.52	13161.60	13611.30	1.034
-92	5.25	4.79	YY	3	SLV(E)	10.52	10.52	4455.15	13611.30	3.055
-92	5.25	4.79	YY	5	SLV(E)	10.52	10.52	10812.80	13611.30	1.259
-92	5.25	4.79	YY	5	SLV(E)	10.52	10.52	6804.00	13611.30	2.000
-92	5.25	4.79	YY	7	SLV(E)	10.52	10.52	8085.51	13611.30	1.683
-92	5.25	4.79	YY	7	SLV(E)	10.52	10.52	9531.28	13611.30	1.428
-98	10.25	4.79	YY	1	SLV(E)	10.52	10.52	7614.95	13611.30	1.787
-98	10.25	4.79	YY	1	SLV(E)	10.52	10.52	5754.98	13611.30	2.365
-98	10.25	4.79	YY	3	SLV(E)	10.52	10.52	7306.93	13611.30	1.863
-98	10.25	4.79	YY	3	SLV(E)	10.52	10.52	6063.00	13611.30	2.245
-98	10.25	4.79	YY	5	SLV(E)	10.52	10.52	7431.11	13611.30	1.832
-98	10.25	4.79	YY	5	SLV(E)	10.52	10.52	5938.81	13611.30	2.292
-98	10.25	4.79	YY	7	SLV(E)	10.52	10.52	6965.53	13611.30	1.954
-98	10.25	4.79	YY	7	SLV(E)	10.52	10.52	6404.40	13611.30	2.125
-43	5.25	1.92	YY	1	SLV(E)	10.52	10.52	-1563.87	-13611.30	8.704
-43	5.25	1.92	YY	1	SLV(E)	10.52	10.52	-5020.84	-13611.30	2.711
-43	5.25	1.92	YY	3	SLV(E)	10.52	10.52	-2313.52	-13611.30	5.883

-43	5.25	1.92	YY	3	SLV(E)	10.52	10.52	-4271.19	-13611.30	3.187
-43	5.25	1.92	YY	5	SLV(E)	10.52	10.52	-1636.83	-13611.30	8.316
-43	5.25	1.92	YY	5	SLV(E)	10.52	10.52	-4947.88	-13611.30	2.751
-43	5.25	1.92	YY	7	SLV(E)	10.52	10.52	-2449.03	-13611.30	5.558
-43	5.25	1.92	YY	7	SLV(E)	10.52	10.52	-4135.68	-13611.30	3.291
-15	5.25	0.00	YY	1	SLV(E)	10.52	7.70	-180.68	-13610.50	75.330
-15	5.25	0.00	YY	1	SLV(E)	10.52	7.70	-1454.94	-13610.50	9.355
-15	5.25	0.00	YY	3	SLV(E)	10.52	7.70	-239.64	-13610.50	56.795
-15	5.25	0.00	YY	3	SLV(E)	10.52	7.70	-1395.98	-13610.50	9.750
-15	5.25	0.00	YY	5	SLV(E)	10.52	7.70	-537.24	-13610.50	25.334
-15	5.25	0.00	YY	5	SLV(E)	10.52	7.70	-1098.38	-13610.50	12.392
-15	5.25	0.00	YY	7	SLV(E)	10.52	7.70	-901.83	-13610.50	15.092
-15	5.25	0.00	YY	7	SLV(E)	10.52	7.70	-733.79	-13610.50	18.548
7	10.25	11.04	YY	1	SLV(E)	10.52	10.52	6657.70	13611.30	2.044
7	10.25	11.04	YY	1	SLV(E)	10.52	10.52	6172.29	13611.30	2.205
7	10.25	11.04	YY	3	SLV(E)	10.52	10.52	6587.56	13611.30	2.066
7	10.25	11.04	YY	3	SLV(E)	10.52	10.52	6242.43	13611.30	2.180
7	10.25	11.04	YY	5	SLV(E)	10.52	10.52	6594.19	13611.30	2.064
7	10.25	11.04	YY	5	SLV(E)	10.52	10.52	6235.81	13611.30	2.183
7	10.25	11.04	YY	7	SLV(E)	10.52	10.52	6469.60	13611.30	2.104
7	10.25	11.04	YY	7	SLV(E)	10.52	10.52	6360.39	13611.30	2.140
-241	10.25	10.18	YY	1	SLV(E)	10.52	10.52	2952.66	13611.30	4.610
-241	10.25	10.18	YY	1	SLV(E)	10.52	10.52	2530.81	13611.30	5.378
-241	10.25	10.18	YY	3	SLV(E)	10.52	10.52	2912.00	13611.30	4.674
-241	10.25	10.18	YY	3	SLV(E)	10.52	10.52	2571.47	13611.30	5.293
-241	10.25	10.18	YY	5	SLV(E)	10.52	10.52	2866.68	13611.30	4.748
-241	10.25	10.18	YY	5	SLV(E)	10.52	10.52	2616.79	13611.30	5.202
-241	10.25	10.18	YY	7	SLV(E)	10.52	10.52	2752.32	13611.30	4.945
-241	10.25	10.18	YY	7	SLV(E)	10.52	10.52	2731.15	13611.30	4.984
-118	12.07	4.99	YY	1	SLV(E)	7.70	10.52	2284.03	13610.50	5.959
-118	12.07	4.99	YY	1	SLV(E)	7.70	10.52	1486.58	13610.50	9.156
-118	12.07	4.99	YY	3	SLV(E)	7.70	10.52	2052.12	13610.50	6.632
-118	12.07	4.99	YY	3	SLV(E)	7.70	10.52	1718.49	13610.50	7.920
-118	12.07	4.99	YY	5	SLV(E)	7.70	10.52	2356.66	13610.50	5.775
-118	12.07	4.99	YY	5	SLV(E)	7.70	10.52	1413.95	13610.50	9.626
-118	12.07	4.99	YY	7	SLV(E)	7.70	10.52	2187.00	13610.50	6.223
-118	12.07	4.99	YY	7	SLV(E)	7.70	10.52	1583.62	13610.50	8.595
-37	12.07	0.96	YY	1	SLV(E)	7.70	10.52	-1215.36	-10053.80	8.272
-37	12.07	0.96	YY	1	SLV(E)	7.70	10.52	-1728.66	-10053.80	5.816
-37	12.07	0.96	YY	3	SLV(E)	7.70	10.52	-1435.98	-10053.80	7.001
-37	12.07	0.96	YY	3	SLV(E)	7.70	10.52	-1508.04	-10053.80	6.667
-37	12.07	0.96	YY	5	SLV(E)	7.70	10.52	-1060.42	-10053.80	9.481
-37	12.07	0.96	YY	5	SLV(E)	7.70	10.52	-1883.61	-10053.80	5.338
-37	12.07	0.96	YY	7	SLV(E)	7.70	10.52	-1148.22	-10053.80	8.756
-37	12.07	0.96	YY	7	SLV(E)	7.70	10.52	-1795.80	-10053.80	5.598
-51	12.07	1.92	YY	1	SLV(E)	7.70	10.52	-2106.41	-10053.80	4.773
-51	12.07	1.92	YY	1	SLV(E)	7.70	10.52	-3092.19	-10053.80	3.251
-51	12.07	1.92	YY	3	SLV(E)	7.70	10.52	-2543.20	-10053.80	3.953
-51	12.07	1.92	YY	3	SLV(E)	7.70	10.52	-2655.40	-10053.80	3.786
-51	12.07	1.92	YY	5	SLV(E)	7.70	10.52	-1788.97	-10053.80	5.620
-51	12.07	1.92	YY	5	SLV(E)	7.70	10.52	-3409.63	-10053.80	2.949
-51	12.07	1.92	YY	7	SLV(E)	7.70	10.52	-1953.66	-10053.80	5.146
-51	12.07	1.92	YY	7	SLV(E)	7.70	10.52	-3244.94	-10053.80	3.098
-315	5.25	13.94	YY	1	SLV(E)	10.52	10.52	-3315.44	-13611.30	4.105
-315	5.25	13.94	YY	1	SLV(E)	10.52	10.52	-3438.80	-13611.30	3.958
-315	5.25	13.94	YY	3	SLV(E)	10.52	10.52	-3342.45	-13611.30	4.072
-315	5.25	13.94	YY	3	SLV(E)	10.52	10.52	-3411.79	-13611.30	3.989
-315	5.25	13.94	YY	5	SLV(E)	10.52	10.52	-3317.66	-13611.30	4.103
-315	5.25	13.94	YY	5	SLV(E)	10.52	10.52	-3436.59	-13611.30	3.961
-315	5.25	13.94	YY	7	SLV(E)	10.52	10.52	-3346.56	-13611.30	4.067
-315	5.25	13.94	YY	7	SLV(E)	10.52	10.52	-3407.69	-13611.30	3.994
-193	5.25	8.45	YY	1	SLV(E)	10.52	7.70	-3815.63	-13610.50	3.567
-193	5.25	8.45	YY	1	SLV(E)	10.52	7.70	-4948.47	-13610.50	2.750
-193	5.25	8.45	YY	3	SLV(E)	10.52	7.70	-4044.53	-13610.50	3.365
-193	5.25	8.45	YY	3	SLV(E)	10.52	7.70	-4719.57	-13610.50	2.884
-193	5.25	8.45	YY	5	SLV(E)	10.52	7.70	-3864.97	-13610.50	3.522
-193	5.25	8.45	YY	5	SLV(E)	10.52	7.70	-4899.13	-13610.50	2.778
-193	5.25	8.45	YY	7	SLV(E)	10.52	7.70	-4136.15	-13610.50	3.291
-193	5.25	8.45	YY	7	SLV(E)	10.52	7.70	-4627.95	-13610.50	2.941
-199	10.25	8.45	YY	1	SLV(E)	10.52	7.70	-3328.65	-13610.50	4.089
-199	10.25	8.45	YY	1	SLV(E)	10.52	7.70	-3544.44	-13610.50	3.840
-199	10.25	8.45	YY	3	SLV(E)	10.52	7.70	-3381.57	-13610.50	4.025
-199	10.25	8.45	YY	3	SLV(E)	10.52	7.70	-3491.53	-13610.50	3.898
-199	10.25	8.45	YY	5	SLV(E)	10.52	7.70	-3323.93	-13610.50	4.095
-199	10.25	8.45	YY	5	SLV(E)	10.52	7.70	-3549.17	-13610.50	3.835
-199	10.25	8.45	YY	7	SLV(E)	10.52	7.70	-3372.79	-13610.50	4.035
-199	10.25	8.45	YY	7	SLV(E)	10.52	7.70	-3500.30	-13610.50	3.888
-437	5.25	19.74	YY	1	SLV(E)	7.70	10.52	-3405.52	-10053.80	2.952
-437	5.25	19.74	YY	1	SLV(E)	7.70	10.52	-3564.84	-10053.80	2.820
-437	5.25	19.74	YY	3	SLV(E)	7.70	10.52	-3412.80	-10053.80	2.946
-437	5.25	19.74	YY	3	SLV(E)	7.70	10.52	-3557.56	-10053.80	2.826
-437	5.25	19.74	YY	5	SLV(E)	7.70	10.52	-3450.24	-10053.80	2.914
-437	5.25	19.74	YY	5	SLV(E)	7.70	10.52	-3520.12	-10053.80	2.856
-437	5.25	19.74	YY	7	SLV(E)	7.70	10.52	-3495.85	-10053.80	2.876
-437	5.25	19.74	YY	7	SLV(E)	7.70	10.52	-3474.51	-10053.80	2.894
-437	5.25	19.74	YY	1	SLV(E)	7.70	10.52	-3405.52	-10053.80	2.952

-437	5.25	19.74	YY	1	SLV(E)	7.70	10.52	-3564.84	-10053.80	2.820
-437	5.25	19.74	YY	3	SLV(E)	7.70	10.52	-3412.80	-10053.80	2.946
-437	5.25	19.74	YY	3	SLV(E)	7.70	10.52	-3557.56	-10053.80	2.826
-437	5.25	19.74	YY	5	SLV(E)	7.70	10.52	-3450.24	-10053.80	2.914
-437	5.25	19.74	YY	5	SLV(E)	7.70	10.52	-3520.12	-10053.80	2.856
-437	5.25	19.74	YY	7	SLV(E)	7.70	10.52	-3495.85	-10053.80	2.876
-437	5.25	19.74	YY	7	SLV(E)	7.70	10.52	-3474.51	-10053.80	2.894

Stato limite ultimo - Verifiche a taglio

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	AfE St. <cmq/m>	Vsdu <daN>	ctgθ	VRcd <daN>	VRsd <daN>	Vrdu <daN>	Sic.
-882	0.88	37.91	XX	1	SLV(E)	7.70	7.70		20628.80				16100.40	0.780
-882	0.88	37.91	XX	1	SLV(E)	7.70	7.70		20628.80				16100.40	0.780
-882	0.88	37.91	XX	3	SLV(E)	7.70	7.70		19530.30				16100.40	0.824
-882	0.88	37.91	XX	3	SLV(E)	7.70	7.70		19530.30				16100.40	0.824
-882	0.88	37.91	XX	5	SLV(E)	7.70	7.70		18726.80				16100.40	0.860
-882	0.88	37.91	XX	5	SLV(E)	7.70	7.70		18726.80				16100.40	0.860
-882	0.88	37.91	XX	7	SLV(E)	7.70	7.70		15998.00				16100.40	1.006
-882	0.88	37.91	XX	7	SLV(E)	7.70	7.70		15998.00				16100.40	1.006
-882	0.88	37.91	XX	9	SLU	7.70	7.70		21250.90				16100.40	0.758
-112	6.14	4.99	XX	1	SLV(E)	10.52	10.52		23104.70				16100.40	0.697
-112	6.14	4.99	XX	1	SLV(E)	10.52	10.52		23104.70				16100.40	0.697
-112	6.14	4.99	XX	3	SLV(E)	10.52	10.52		22174.40				16100.40	0.726
-112	6.14	4.99	XX	3	SLV(E)	10.52	10.52		22174.40				16100.40	0.726
-112	6.14	4.99	XX	5	SLV(E)	10.52	10.52		19428.90				16100.40	0.829
-112	6.14	4.99	XX	5	SLV(E)	10.52	10.52		19428.90				16100.40	0.829
-112	6.14	4.99	XX	7	SLV(E)	10.52	10.52		16328.00				16100.40	0.986
-112	6.14	4.99	XX	7	SLV(E)	10.52	10.52		16328.00				16100.40	0.986
-112	6.14	4.99	XX	9	SLU	10.52	10.52		22146.10				16100.40	0.727
-259	9.72	11.04	XX	1	SLV(E)	10.52	10.52		12551.10				16100.40	1.283
-259	9.72	11.04	XX	1	SLV(E)	10.52	10.52		12551.10				16100.40	1.283
-259	9.72	11.04	XX	3	SLV(E)	10.52	10.52		12573.60				16100.40	1.280
-259	9.72	11.04	XX	3	SLV(E)	10.52	10.52		12573.60				16100.40	1.280
-259	9.72	11.04	XX	5	SLV(E)	10.52	10.52		12580.60				16100.40	1.280
-259	9.72	11.04	XX	5	SLV(E)	10.52	10.52		12580.60				16100.40	1.280
-259	9.72	11.04	XX	7	SLV(E)	10.52	10.52		12589.50				16100.40	1.279
-259	9.72	11.04	XX	7	SLV(E)	10.52	10.52		12589.50				16100.40	1.279
-259	9.72	11.04	XX	9	SLU	10.52	10.52		18675.90				16100.40	0.862
-170	3.50	7.58	XX	1	SLV(E)	7.70	10.52		1159.30				16100.40	13.888
-170	3.50	7.58	XX	1	SLV(E)	7.70	10.52		1159.30				16100.40	13.888
-170	3.50	7.58	XX	3	SLV(E)	7.70	10.52		1086.50				16100.40	14.819
-170	3.50	7.58	XX	3	SLV(E)	7.70	10.52		1086.50				16100.40	14.819
-170	3.50	7.58	XX	5	SLV(E)	7.70	10.52		1099.37				16100.40	14.645
-170	3.50	7.58	XX	5	SLV(E)	7.70	10.52		1099.37				16100.40	14.645
-170	3.50	7.58	XX	7	SLV(E)	7.70	10.52		975.21				16100.40	16.510
-170	3.50	7.58	XX	7	SLV(E)	7.70	10.52		975.21				16100.40	16.510
-170	3.50	7.58	XX	9	SLU	7.70	10.52		1287.88				16100.40	12.501
-631	15.70	28.18	YY	1	SLV(E)	7.70	7.70		22459.70				16100.40	0.717
-631	15.70	28.18	YY	1	SLV(E)	7.70	7.70		22459.70				16100.40	0.717
-631	15.70	28.18	YY	3	SLV(E)	7.70	7.70		21632.20				16100.40	0.744
-631	15.70	28.18	YY	3	SLV(E)	7.70	7.70		21632.20				16100.40	0.744
-631	15.70	28.18	YY	5	SLV(E)	7.70	7.70		22648.00				16100.40	0.711
-631	15.70	28.18	YY	5	SLV(E)	7.70	7.70		22648.00				16100.40	0.711
-631	15.70	28.18	YY	7	SLV(E)	7.70	7.70		21982.00				16100.40	0.732
-631	15.70	28.18	YY	7	SLV(E)	7.70	7.70		21982.00				16100.40	0.732
-631	15.70	28.18	YY	9	SLU	7.70	7.70		30315.60				16100.40	0.531
-98	10.25	4.79	YY	1	SLV(E)	10.52	10.52		18677.30				16100.40	0.862
-98	10.25	4.79	YY	1	SLV(E)	10.52	10.52		18677.30				16100.40	0.862
-98	10.25	4.79	YY	3	SLV(E)	10.52	10.52		18601.50				16100.40	0.866
-98	10.25	4.79	YY	3	SLV(E)	10.52	10.52		18601.50				16100.40	0.866
-98	10.25	4.79	YY	5	SLV(E)	10.52	10.52		18598.00				16100.40	0.866
-98	10.25	4.79	YY	5	SLV(E)	10.52	10.52		18598.00				16100.40	0.866
-98	10.25	4.79	YY	7	SLV(E)	10.52	10.52		18454.30				16100.40	0.872
-98	10.25	4.79	YY	7	SLV(E)	10.52	10.52		18454.30				16100.40	0.872
-98	10.25	4.79	YY	9	SLU	10.52	10.52		26946.50				16100.40	0.597
-241	10.25	10.18	YY	1	SLV(E)	10.52	10.52		11398.80				16100.40	1.412
-241	10.25	10.18	YY	1	SLV(E)	10.52	10.52		11398.80				16100.40	1.412
-241	10.25	10.18	YY	3	SLV(E)	10.52	10.52		11447.90				16100.40	1.406
-241	10.25	10.18	YY	3	SLV(E)	10.52	10.52		11447.90				16100.40	1.406
-241	10.25	10.18	YY	5	SLV(E)	10.52	10.52		11446.70				16100.40	1.407
-241	10.25	10.18	YY	5	SLV(E)	10.52	10.52		11446.70				16100.40	1.407
-241	10.25	10.18	YY	7	SLV(E)	10.52	10.52		11473.70				16100.40	1.403
-241	10.25	10.18	YY	7	SLV(E)	10.52	10.52		11473.70				16100.40	1.403
-241	10.25	10.18	YY	9	SLU	10.52	10.52		16890.30				16100.40	0.953
-37	12.07	0.96	YY	1	SLV(E)	7.70	10.52		3060.15				16100.40	5.261
-37	12.07	0.96	YY	1	SLV(E)	7.70	10.52		3060.15				16100.40	5.261
-37	12.07	0.96	YY	3	SLV(E)	7.70	10.52		2639.29				16100.40	6.100
-37	12.07	0.96	YY	3	SLV(E)	7.70	10.52		2639.29				16100.40	6.100
-37	12.07	0.96	YY	5	SLV(E)	7.70	10.52		3396.51				16100.40	4.740
-37	12.07	0.96	YY	5	SLV(E)	7.70	10.52		3396.51				16100.40	4.740
-37	12.07	0.96	YY	7	SLV(E)	7.70	10.52		3263.96				16100.40	4.933
-37	12.07	0.96	YY	7	SLV(E)	7.70	10.52		3263.96				16100.40	4.933
-37	12.07	0.96	YY	9	SLU	7.70	10.52		3715.96				16100.40	4.333
-199	10.25	8.45	YY	1	SLV(E)	10.52	7.70		1250.51				16100.40	12.875
-199	10.25	8.45	YY	1	SLV(E)	10.52	7.70		1250.51				16100.40	12.875

-199	10.25	8.45	YY	3	SLV(E)	10.52	7.70		1252.28				16100.40	12.857
-199	10.25	8.45	YY	3	SLV(E)	10.52	7.70		1252.28				16100.40	12.857
-199	10.25	8.45	YY	5	SLV(E)	10.52	7.70		1253.31				16100.40	12.846
-199	10.25	8.45	YY	5	SLV(E)	10.52	7.70		1253.31				16100.40	12.846
-199	10.25	8.45	YY	7	SLV(E)	10.52	7.70		1253.84				16100.40	12.841
-199	10.25	8.45	YY	7	SLV(E)	10.52	7.70		1253.84				16100.40	12.841
-199	10.25	8.45	YY	9	SLU	10.52	7.70		1863.40				16100.40	8.640
-437	5.25	19.74	YY	1	SLV(E)	7.70	10.52		225.38				16100.40	71.436
-437	5.25	19.74	YY	1	SLV(E)	7.70	10.52		225.38				16100.40	71.436
-437	5.25	19.74	YY	3	SLV(E)	7.70	10.52		223.20				16100.40	72.135
-437	5.25	19.74	YY	3	SLV(E)	7.70	10.52		223.20				16100.40	72.135
-437	5.25	19.74	YY	5	SLV(E)	7.70	10.52		225.52				16100.40	71.391
-437	5.25	19.74	YY	5	SLV(E)	7.70	10.52		225.52				16100.40	71.391
-437	5.25	19.74	YY	7	SLV(E)	7.70	10.52		223.46				16100.40	72.050
-437	5.25	19.74	YY	7	SLV(E)	7.70	10.52		223.46				16100.40	72.050
-437	5.25	19.74	YY	9	SLU	7.70	10.52		316.83				16100.40	50.817

Stato limite d'esercizio - Verifiche tensionali

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	Mom <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
11	10.25	16.84	XX	10	SLE R	7.70	7.70	5939.28	41.18	2317.98
-747	9.72	33.06	XX	12	SLE Q	7.70	7.70	5095.97	35.33	1988.86
-719	2.62	32.51	XX	10	SLE R	7.70	7.70	-6460.96	44.80	2521.59
-719	2.62	32.51	XX	12	SLE Q	7.70	7.70	-5845.24	40.53	2281.28
3	10.25	4.99	XX	10	SLE R	10.52	10.52	6479.92	38.57	1867.45
2	5.25	4.99	XX	12	SLE Q	10.52	10.52	5726.03	34.09	1650.19
7	10.25	11.04	XX	10	SLE R	10.52	10.52	6351.67	37.81	1830.49
7	10.25	11.04	XX	12	SLE Q	10.52	10.52	5385.87	32.06	1552.15
-252	2.62	11.04	XX	10	SLE R	10.52	10.52	-5473.83	32.59	1577.50
-252	2.62	11.04	XX	12	SLE Q	10.52	10.52	-4859.76	28.93	1400.53
-119	12.99	4.99	XX	10	SLE R	10.52	10.52	-4389.44	26.13	1264.99
-119	12.99	4.99	XX	12	SLE Q	10.52	10.52	-3928.49	23.39	1132.15
-181	12.99	7.58	XX	10	SLE R	7.70	10.52	-3691.71	24.98	1441.46
-181	12.99	7.58	XX	12	SLE Q	7.70	10.52	-3312.07	22.41	1293.23
-172	5.25	7.58	XX	10	SLE R	7.70	10.52	211.19	1.29	60.87
-172	5.25	7.58	XX	12	SLE Q	7.70	10.52	200.96	1.23	57.92
-610	15.70	27.31	YY	10	SLE R	7.70	7.70	5470.20	37.93	2134.91
-727	10.25	32.51	YY	12	SLE Q	7.70	7.70	4891.19	33.91	1908.93
-804	4.38	35.21	YY	10	SLE R	7.70	7.70	-4790.66	33.22	1869.70
-804	4.38	35.21	YY	12	SLE Q	7.70	7.70	-4350.72	30.17	1698.00
-92	5.25	4.79	YY	10	SLE R	10.52	10.52	8769.13	52.20	2527.17
-92	5.25	4.79	YY	12	SLE Q	10.52	10.52	8007.64	47.67	2307.72
-15	5.25	0.00	YY	10	SLE R	10.52	7.70	-811.15	4.96	233.79
-15	5.25	0.00	YY	12	SLE Q	10.52	7.70	-743.46	4.54	214.29
-43	5.25	1.92	YY	10	SLE R	10.52	10.52	-3392.78	20.20	977.76
-43	5.25	1.92	YY	12	SLE Q	10.52	10.52	-2993.05	17.82	862.57
7	10.25	11.04	YY	10	SLE R	10.52	10.52	6809.76	40.54	1962.50
7	10.25	11.04	YY	12	SLE Q	10.52	10.52	5831.81	34.72	1680.67
-118	12.07	4.99	YY	10	SLE R	7.70	10.52	1921.21	11.74	553.74
-118	12.07	4.99	YY	12	SLE Q	7.70	10.52	1713.92	10.47	494.00
-51	12.07	1.92	YY	10	SLE R	7.70	10.52	-2668.57	18.06	1041.97
-51	12.07	1.92	YY	12	SLE Q	7.70	10.52	-2363.00	15.99	922.65
-315	5.25	13.94	YY	10	SLE R	10.52	10.52	-3535.26	21.05	1018.83
-315	5.25	13.94	YY	12	SLE Q	10.52	10.52	-3070.11	18.28	884.77
-193	5.25	8.45	YY	10	SLE R	10.52	7.70	-4479.95	27.37	1291.24
-193	5.25	8.45	YY	12	SLE Q	10.52	7.70	-3983.68	24.34	1148.20
-437	5.25	19.74	YY	10	SLE R	7.70	10.52	-3668.52	24.82	1432.40
-437	5.25	19.74	YY	12	SLE Q	7.70	10.52	-3168.35	21.44	1237.11

Stato limite d'esercizio - Verifiche a fessurazione

Nodo	X <m>	Y <m>	DV	CC	TCC	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>
-747	9.72	33.06	XX	12	SLE Q	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	1988.86	0.58	0.24
11	10.25	16.84	XX	11	SLE F	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	2040.71	0.59	0.25
-719	2.62	32.51	XX	12	SLE Q	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	2281.28	0.66	0.27
-719	2.62	32.51	XX	11	SLE F	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	2331.01	0.68	0.28
2	5.25	4.99	XX	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1650.19	0.48	0.15
2	5.25	4.99	XX	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1681.85	0.49	0.15
7	10.25	11.04	XX	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1552.15	0.45	0.14
7	10.25	11.04	XX	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1614.03	0.47	0.14
-252	2.62	11.04	XX	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1400.53	0.41	0.12
-252	2.62	11.04	XX	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1438.34	0.42	0.13
-119	12.99	4.99	XX	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1132.15	0.33	0.10
-119	12.99	4.99	XX	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1161.58	0.34	0.10
-181	12.99	7.58	XX	12	SLE Q	33.00	200.00	0.50	14.00	244.30	9.24	1000.00	1293.23	0.38	0.16
-181	12.99	7.58	XX	11	SLE F	33.00	200.00	0.50	14.00	244.30	9.24	1000.00	1326.56	0.39	0.16
-172	5.25	7.58	XX	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	57.92	0.02	0.01
-172	5.25	7.58	XX	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	59.28	0.02	0.01
-727	10.25	32.51	YY	12	SLE Q	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	1908.93	0.56	0.23
-727	10.25	32.51	YY	11	SLE F	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	1916.16	0.56	0.23
-804	4.38	35.21	YY	12	SLE Q	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	1698.00	0.49	0.20
-804	4.38	35.21	YY	11	SLE F	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	1733.60	0.50	0.21
-92	5.25	4.79	YY	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	2307.72	0.67	0.20
-92	5.25	4.79	YY	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	2356.09	0.69	0.21

-15	5.25	0.00	YY	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	214.29	0.06	0.02
-15	5.25	0.00	YY	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	218.68	0.06	0.02
-43	5.25	1.92	YY	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	862.57	0.25	0.08
-43	5.25	1.92	YY	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	886.60	0.26	0.08
7	10.25	11.04	YY	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1680.67	0.49	0.15
7	10.25	11.04	YY	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1743.51	0.51	0.15
-118	12.07	4.99	YY	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	494.00	0.14	0.04
-118	12.07	4.99	YY	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	506.98	0.15	0.04
-51	12.07	1.92	YY	12	SLE Q	33.00	200.00	0.50	14.00	244.30	9.24	1000.00	922.65	0.27	0.11
-51	12.07	1.92	YY	11	SLE F	33.00	200.00	0.50	14.00	244.30	9.24	1000.00	948.16	0.28	0.11
-315	5.25	13.94	YY	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	884.77	0.26	0.08
-315	5.25	13.94	YY	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	914.40	0.27	0.08
-193	5.25	8.45	YY	12	SLE Q	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1148.20	0.33	0.10
-193	5.25	8.45	YY	11	SLE F	33.30	133.33	0.50	13.40	178.88	11.93	1000.00	1179.35	0.34	0.10
-437	5.25	19.74	YY	12	SLE Q	33.00	200.00	0.50	14.00	244.30	9.24	1000.00	1237.11	0.36	0.15
-437	5.25	19.74	YY	11	SLE F	33.00	200.00	0.50	14.00	244.30	9.24	1000.00	1280.32	0.37	0.15

Stato limite ultimo - Verifiche a punzonamento

Pil	CC	TCC	d <m>	My <daNm>	Mz <daNm>	u_0 <m>	$V_{Ed,red}$ (u_0) <daN>	β (u_0)	ν	v_{Ed} (u_0) <daN/mq>	$V_{Rd,max}$ <daN/mq>	a <m>	u_1 <m>	$V_{Ed,red}$ (u_1) <daN>	β (u_1)	ρ_l	v_{Ed} (u_1) <daN/mq>	$V_{Rd,c}$ <daN/mq>	A_{sw} <cmq>	$V_{Rd,cs}$ <daN/mq>	$u_{out,e}$ <m>
3	1	SLV	0.36	3943.22	1596.74	2.00	66189.20	1.06	0.53	97633.20	457939.00	0.72	6.51	55461.60	1.07	2.92	25413.60	44723.30	0.00	0.00	0.
3	1	SLV	0.36	3943.22	205.35	2.00	66189.20	1.06	0.53	97293.00	457939.00	0.72	6.51	55461.60	1.07	2.92	25309.10	44723.30	0.00	0.00	0.
3	1	SLV	0.36	3377.00	1596.74	2.00	66189.20	1.05	0.53	96917.60	457939.00	0.72	6.51	55461.60	1.06	2.92	25193.80	44723.30	0.00	0.00	0.
3	1	SLV	0.36	3377.00	205.35	2.00	66189.20	1.05	0.53	96524.60	457939.00	0.72	6.51	55461.60	1.06	2.92	25073.00	44723.30	0.00	0.00	0.
3	1	SLV	0.36	3943.22	1596.74	2.00	68200.40	1.06	0.53	100426.00	457939.00	0.72	6.51	57472.70	1.07	2.92	26271.60	44723.30	0.00	0.00	0.
3	1	SLV	0.36	3943.22	205.35	2.00	68200.40	1.06	0.53	100086.00	457939.00	0.72	6.51	57472.70	1.07	2.92	26167.10	44723.30	0.00	0.00	0.
3	1	SLV	0.36	3377.00	1596.74	2.00	68200.40	1.05	0.53	99710.80	457939.00	0.72	6.51	57472.70	1.06	2.92	26051.80	44723.30	0.00	0.00	0.
3	1	SLV	0.36	3377.00	205.35	2.00	68200.40	1.05	0.53	99317.90	457939.00	0.72	6.51	57472.70	1.06	2.92	25931.10	44723.30	0.00	0.00	0.
3	3	SLV	0.36	3088.91	1525.53	2.00	66748.00	1.05	0.53	97300.00	457939.00	0.72	6.51	56020.40	1.06	2.92	25311.20	44723.30	0.00	0.00	0.
3	3	SLV	0.36	3088.91	276.57	2.00	66748.00	1.05	0.53	96916.10	457939.00	0.72	6.51	56020.40	1.05	2.92	25193.30	44723.30	0.00	0.00	0.
3	3	SLV	0.36	2522.69	1525.53	2.00	66748.00	1.04	0.53	96609.80	457939.00	0.72	6.51	56020.40	1.05	2.92	25099.20	44723.30	0.00	0.00	0.
3	3	SLV	0.36	2522.69	276.57	2.00	66748.00	1.04	0.53	96149.80	457939.00	0.72	6.51	56020.40	1.04	2.92	24957.90	44723.30	0.00	0.00	0.
3	3	SLV	0.36	3088.91	1525.53	2.00	67641.60	1.05	0.53	98541.00	457939.00	0.72	6.51	56913.90	1.06	2.92	25692.40	44723.30	0.00	0.00	0.
3	3	SLV	0.36	3088.91	276.57	2.00	67641.60	1.04	0.53	98157.10	457939.00	0.72	6.51	56913.90	1.05	2.92	25574.50	44723.30	0.00	0.00	0.
3	3	SLV	0.36	2522.69	1525.53	2.00	67641.60	1.04	0.53	97850.80	457939.00	0.72	6.51	56913.90	1.05	2.92	25480.40	44723.30	0.00	0.00	0.
3	3	SLV	0.36	2522.69	276.57	2.00	67641.60	1.04	0.53	97390.90	457939.00	0.72	6.51	56913.90	1.04	2.92	25339.10	44723.30	0.00	0.00	0.
3	5	SLV	0.36	2676.85	1217.77	2.00	66045.60	1.04	0.53	95661.30	457939.00	0.72	6.51	55318.00	1.05	2.92	24807.80	44723.30	0.00	0.00	0.
3	5	SLV	0.36	2676.85	584.32	2.00	66045.60	1.04	0.53	95436.80	457939.00	0.72	6.51	55318.00	1.05	2.92	24738.90	44723.30	0.00	0.00	0.
3	5	SLV	0.36	2110.63	1217.77	2.00	66045.60	1.04	0.53	94962.80	457939.00	0.72	6.51	55318.00	1.04	2.92	24593.30	44723.30	0.00	0.00	0.
3	5	SLV	0.36	2110.63	584.32	2.00	66045.60	1.03	0.53	94685.70	457939.00	0.72	6.51	55318.00	1.04	2.92	24508.20	44723.30	0.00	0.00	0.
3	5	SLV	0.36	2676.85	1217.77	2.00	68344.00	1.04	0.53	98853.40	457939.00	0.72	6.51	57616.30	1.05	2.92	25788.40	44723.30	0.00	0.00	0.
3	5	SLV	0.36	2676.85	584.32	2.00	68344.00	1.04	0.53	98629.00	457939.00	0.72	6.51	57616.30	1.05	2.92	25719.40	44723.30	0.00	0.00	0.
3	5	SLV	0.36	2110.63	1217.77	2.00	68344.00	1.03	0.53	98154.90	457939.00	0.72	6.51	57616.30	1.04	2.92	25573.80	44723.30	0.00	0.00	0.
3	5	SLV	0.36	2110.63	584.32	2.00	68344.00	1.03	0.53	97877.90	457939.00	0.72	6.51	57616.30	1.04	2.92	25488.70	44723.30	0.00	0.00	0.
3	7	SLV	0.36	737.08	821.72	2.00	66481.30	1.02	0.53	93755.30	457939.00	0.72	6.51	55753.70	1.02	2.92	24222.40	44723.30	0.00	0.00	0.
3	7	SLV	0.36	737.08	980.38	2.00	66481.30	1.02	0.53	93899.20	457939.00	0.72	6.51	55753.70	1.02	2.92	24266.60	44723.30	0.00	0.00	0.
3	7	SLV	0.36	170.86	821.72	2.00	66481.30	1.01	0.53	93368.50	457939.00	0.72	6.51	55753.70	1.01	2.92	24103.60	44723.30	0.00	0.00	0.
3	7	SLV	0.36	170.86	980.38	2.00	66481.30	1.01	0.53	93558.80	457939.00	0.72	6.51	55753.70	1.02	2.92	24162.00	44723.30	0.00	0.00	0.
3	7	SLV	0.36	737.08	821.72	2.00	67908.30	1.02	0.53	95737.20	457939.00	0.72	6.51	57180.60	1.02	2.92	24831.20	44723.30	0.00	0.00	0.
3	7	SLV	0.36	737.08	980.38	2.00	67908.30	1.02	0.53	95881.10	457939.00	0.72	6.51	57180.60	1.02	2.92	24875.40	44723.30	0.00	0.00	0.
3	7	SLV	0.36	170.86	821.72	2.00	67908.30	1.01	0.53	95350.40	457939.00	0.72	6.51	57180.60	1.01	2.92	24712.40	44723.30	0.00	0.00	0.
3	7	SLV	0.36	170.86	980.38	2.00	67908.30	1.01	0.53	95540.70	457939.00	0.72	6.51	57180.60	1.02	2.92	24770.80	44723.30	0.00	0.00	0.
3	9	SLU	0.36	66.34	1170.97	2.00	98233.70	1.01	0.53	137873.00	457939.00	0.72	6.51	82208.00	1.01	2.92	35514.00	44723.30	0.00	0.00	0.
6	1	SLV	0.36	3398.48	1276.34	1.80	70539.80	1.05	0.53	114304.00	457939.00	0.72	6.31	59861.00	1.06	2.92	27901.20	44723.30	0.00	0.00	0.
6	1	SLV	0.36	3398.48	117.63	1.80	70539.80	1.05	0.53	113991.00	457939.00	0.72	6.31	59861.00	1.06	2.92	27811.90	44723.30	0.00	0.00	0.
6	1	SLV	0.36	790.56	1276.34	1.80	70539.80	1.02	0.53	111040.00	457939.00	0.72	6.31	59861.00	1.02	2.92	26970.30	44723.30	0.00	0.00	0.
6	1	SLV	0.36	790.56	117.63	1.80	70539.80	1.01	0.53	110063.00	457939.00	0.72	6.31	59861.00	1.01	2.92	26691.60	44723.30	0.00	0.00	0.
6	1	SLV	0.36	3398.48	1276.34	1.80	72021.20	1.05	0.53	116590.00	457939.00	0.72	6.31	61342.40	1.06	2.92	28553.20	44723.30	0.00	0.00	0.
6	1	SLV	0.36	3398.48	117.63	1.80	72021.20	1.05	0.53	116277.00	457939.00	0.72	6.31	61342.40	1.05	2.92	28463.90	44723.30	0.00	0.00	0.
6	1	SLV	0.36	790.56	1276.34	1.80	72021.20	1.02	0.53	113327.00	457939.00	0.72	6.31	61342.40	1.02	2.92	27622.40	44723.30	0.00	0.00	0.
6	1	SLV	0.36	790.56	117.63	1.80	72021.20	1.01	0.53	112349.00	457939.00	0.72	6.31	61342.40	1.01	2.92	27343.60	44723.30	0.00	0.00	0.
6	3	SLV	0.36	3056.57	1092.23	1.80	70807.70	1.04	0.53	114143.00	457939.00	0.72	6.31	60128.90	1.05	2.92	27855.30	44723.30	0.00	0.00	0.
6	3	SLV	0.36	3056.57	301.75	1.80	70807.70	1.04	0.53	113906.00	457939.00	0.72	6.31	60128.90	1.05	2.92	27787.60	44723.30	0.00	0.00	0.
6	3	SLV	0.36	448.65	1092.23	1.80	70807.70	1.02	0.53	110975.00	457939.00	0.72	6.31	60128.90	1.02	2.92	26951.80	44723.30	0.00	0.00	0.
6	3	SLV	0.36	448.65	301.75	1.80	70807.70	1.01	0.53	110075.00	457939.00	0.72	6.31	60128.90	1.01	2.92	26694.80	44723.30	0.00	0.00	0.
6	3	SLV	0.36	3056.57	1092.23	1.80	71753.30	1.04	0.53	115603.00	457939.00	0.72	6.31	61074.50	1.05	2.92	28271.60	44723.30	0.00	0.00	0.
6	3	SLV	0.36	3056.57	301.75	1.80	71753.30	1.04	0.53	115365.00	457939.00	0.72	6.31	61074.50	1.05	2.92	28203.80	44723.30	0.00	0.00	0.
6	3	SLV	0.36	448.65	1092.23	1.80	71753.30	1.02	0.53	112435.00	457939.00	0.72	6.31	61074.50	1.02	2.92	27368.00	44723.30	0.00	0.00	0.
6	3	SLV	0.36	448.65	301.75	1.80	71753.30	1.01	0.53	111534.00	457939.00	0.72	6.31	61074.50	1.01	2.92	27111.10	44723.30	0.00	0.00	0.
6	5	SLV	0.36	2450.88	1150.04	1.80	70652.00	1.04	0.53	113081.00	457939.00	0.72	6.31	59973.20	1.04	2.92	27552.30	44723.30	0.00	0.00	0.
6	5	SLV	0.36	2450.88	243.93	1.80	70652.00	1.03	0.53	112747.00	457939.00	0.72	6.31	59973.20	1.04	2.92	27457.20	44723.30	0.00	0.00	0.
6	5	SLV	0.36	157.04	1150.04	1.80	70652.00	1.02	0.53	110695.00	457939.00	0.72	6.31	59973.20	1.02	2.92	26871.70	44723.30	0.00	0.00	0.
6	5	SLV	0.36	157.04	243.93	1.80	70652.00	1.00	0.53	109453.00	457939.00	0.72	6.31	59973.20	1.00	2.92	26517.60	44723.30	0.00	0.00	0.
6	5	SLV	0.36	2450.88	1150.04	1.80	71909.00	1.04	0.53	115021.00	457939.00	0.72	6.31	61230.20	1.04	2.92	28105.50	44723.30	0.00	0.00	0.
6	5	SLV	0.36	2450.88	243.93	1.80	71909.00	1.03	0.53	114687.00	457939.00	0.72	6.31	61230.20	1.04	2.92	28010.40	44723.30	0.00	0.00	0.
6	5	SLV	0.36	157.04	1150.04	1.80	71909.00	1.01	0.53	112634.00	457939.00	0.72	6.31	61230.20	1.02	2.92	27424.90	44723.30	0.00	0.00	0.
6	5	SLV	0.36	157.04	243.93	1.80	71909.00	1.00	0.53	111393.00	457939.00	0.72	6.31	61230.20	1.00	2.92	27070.80	44723.30	0.00	0.00	0.
6	7	SLV	0.36	1296.73	857.66	1.80	71016.10	1.02	0.53	111904.00	457939.00	0.72	6.31	60337.30	1.02	2.92	27216.50	44723.30	0.00	0.00	0.
6	7	SLV	0.36	1296.73	536.31	1.80	71016.10	1.02	0.53	111696.00	457939.00	0.72	6.31	60337.30	1.02	2.92	27157.20	44723.30	0.00	0.00	0.
6	7	SLV	0.36	1311.18	857.66	1.80	71016.10	1.02	0.53	111922.00	457939.00	0.72	6.31	60337.30	1.03	2.92	27221.80	44723.30	0.00	0.00	0.
6	7	SLV	0.36	1311.18	536.31	1.80	71016.10	1.02	0.53	111716.00	457939.00	0.72	6.31	60337.30	1.02	2.92	27163.00	44723.30	0.00	0.00	0.
6	7	SLV	0.36	1296.73	857.66	1.80	71544.90	1.02	0.53	112720.00	457939.00	0.72	6.31	60866.10	1.02	2.92	27449.30	44723.30	0.00	0.00	0.
6	7	SLV	0.36	1296.73	536.31	1.80	71544.90	1.02	0.53	112512.00	457939.00	0.72	6.31	60866.10	1.02	2.92	27390.00	44723.30	0.00	0.00	0.
6	7	SLV	0.36	1311.18	857.66	1.80	71544.90	1.02	0.53	112738.00	457939.00	0.72	6.31	60866.10	1.02	2.92	27454.60	44723.30	0.00	0.00	0.
6	7	SLV	0.36	1311.18	536.31	1.80	71544.90	1.02	0.53	112532.00	457939.00	0.72	6.31	60866.10	1.02	2.92	27395.80	44723.30	0.00	0.00	0.
6	9	SLU	0.36	1589.25	859.57	1.80	105706.00	1.02	0.53	165822.00	457939.00	0.72	6.31	89514.90	1.02	2.92	40169.00	44723.30	0.00	0.00	0.
7	1	SLV	0.36	1358.06	771.31	1.80	70068.80	1.02	0.53	110460.00	457939.00	0.72	6.31	59582.20	1.03	2.92	26889.30	44723.30	0.00	0.00	0.
7	1	SLV	0.36	1358.06	33.04	1.80	70068.80	1.02	0.53	110182.00	457939.00	0.72	6.31	59582.20	1.02	2.92	26810.00	44723.30	0.00	0.00	0.
7	1	SLV	0.36	3362.00	771.31	1.80	70068.80	1.05	0.53	113325.00	457939.00	0.72	6.31	59582.20	1.06	2.92	27706.60	44723.30	0.00	0.00	0.
7	1	SLV	0.36	3362.00	33.04	1.80	70068.80	1.05	0.53	113207.00	457939.00	0.72	6.31	59582.20	1.06	2.92	27672.80	44723.30	0.00	0.00	0.
7	1	SLV	0.36	1358.06	771.31	1.80	71012.90	1.02	0.53	111917.00	457939.00	0.72	6.31	60526.30	1.02	2.92	27304.80	44723.30	0.00	0.00	0.
7	1	SLV	0.36	1358.06	33.04	1.80	71012.90	1.02	0.53	111639.00	457939.00	0.72	6.31	60526.30	1.02	2.92	27225.60	44723.30	0.00	0.00	0.
7	1	SLV	0.36	3362.00	771.31	1.80	71012.90	1.05	0.53	114782.00	457939.00	0.72	6.31	60526.30	1.06	2.92	28122.10	44723.30	0.00	0.00	0.
7	1	SLV	0.36	3362.00	33.04	1.80	71012.90	1.05	0.53	114664.00	457939.00	0.72	6.31	60526.30	1.05	2.92	28088.30	44723.30	0.00	0.00	0.
7	3	SLV	0.36	861.80	428.60	1.80	70158.90	1.01	0.53	109709.00	457939.00	0.72	6.31	59672.40	1.02	2.92	26675.10	44723.30	0.00	0.00	0.
7	3	SLV	0.36	861.80	309.67	1.80	70158.90	1.01	0.53	109645.00	457939.00	0.72	6.31	59672.40	1.01	2.92	26656.80	44723.30	0.00	0.00	0.

7	3	SLV	0.36	2865.74	428.60	1.80	70158.90	1.04	0.53	112640.00	457939.00	0.72	6.31	59672.40	1.05	2.92	27511.10	44723.30	0.00	0.00	0.
7	3	SLV	0.36	2865.74	309.67	1.80	70158.90	1.04	0.53	112619.00	457939.00	0.72	6.31	59672.40	1.05	2.92	27505.20	44723.30	0.00	0.00	0.
7	3	SLV	0.36	861.80	428.60	1.80	70922.70	1.01	0.53	110887.00	457939.00	0.72	6.31	60436.20	1.02	2.92	27011.20	44723.30	0.00	0.00	0.
7	3	SLV	0.36	861.80	309.67	1.80	70922.70	1.01	0.53	110823.00	457939.00	0.72	6.31	60436.20	1.01	2.92	26993.00	44723.30	0.00	0.00	0.
7	3	SLV	0.36	2865.74	428.60	1.80	70922.70	1.04	0.53	113818.00	457939.00	0.72	6.31	60436.20	1.05	2.92	27847.20	44723.30	0.00	0.00	0.
7	3	SLV	0.36	2865.74	309.67	1.80	70922.70	1.04	0.53	113798.00	457939.00	0.72	6.31	60436.20	1.05	2.92	27841.30	44723.30	0.00	0.00	0.
7	5	SLV	0.36	458.70	1009.56	1.80	70262.40	1.01	0.53	110033.00	457939.00	0.72	6.31	59775.90	1.02	2.92	26767.50	44723.30	0.00	0.00	0.
7	5	SLV	0.36	458.70	271.29	1.80	70262.40	1.01	0.53	109224.00	457939.00	0.72	6.31	59775.90	1.01	2.92	26536.80	44723.30	0.00	0.00	0.
7	5	SLV	0.36	2462.64	1009.56	1.80	70262.40	1.04	0.53	112419.00	457939.00	0.72	6.31	59775.90	1.04	2.92	27448.00	44723.30	0.00	0.00	0.
7	5	SLV	0.36	2462.64	271.29	1.80	70262.40	1.03	0.53	112168.00	457939.00	0.72	6.31	59775.90	1.04	2.92	27376.50	44723.30	0.00	0.00	0.
7	5	SLV	0.36	458.70	1009.56	1.80	70819.20	1.01	0.53	110892.00	457939.00	0.72	6.31	60332.70	1.02	2.92	27012.60	44723.30	0.00	0.00	0.
7	5	SLV	0.36	458.70	271.29	1.80	70819.20	1.01	0.53	110083.00	457939.00	0.72	6.31	60332.70	1.01	2.92	26781.90	44723.30	0.00	0.00	0.
7	5	SLV	0.36	2462.64	1009.56	1.80	70819.20	1.04	0.53	113278.00	457939.00	0.72	6.31	60332.70	1.04	2.92	27693.10	44723.30	0.00	0.00	0.
7	5	SLV	0.36	2462.64	271.29	1.80	70819.20	1.03	0.53	113027.00	457939.00	0.72	6.31	60332.70	1.04	2.92	27621.50	44723.30	0.00	0.00	0.
7	7	SLV	0.36	808.44	871.07	1.80	70518.60	1.02	0.53	110570.00	457939.00	0.72	6.31	60032.10	1.02	2.92	26920.80	44723.30	0.00	0.00	0.
7	7	SLV	0.36	808.44	132.80	1.80	70518.60	1.01	0.53	110060.00	457939.00	0.72	6.31	60032.10	1.01	2.92	26775.40	44723.30	0.00	0.00	0.
7	7	SLV	0.36	1195.50	871.07	1.80	70518.60	1.02	0.53	111019.00	457939.00	0.72	6.31	60032.10	1.02	2.92	27048.80	44723.30	0.00	0.00	0.
7	7	SLV	0.36	1195.50	132.80	1.80	70518.60	1.02	0.53	110640.00	457939.00	0.72	6.31	60032.10	1.02	2.92	26940.70	44723.30	0.00	0.00	0.
7	7	SLV	0.36	808.44	871.07	1.80	70563.00	1.02	0.53	110639.00	457939.00	0.72	6.31	60076.50	1.02	2.92	26940.40	44723.30	0.00	0.00	0.
7	7	SLV	0.36	808.44	132.80	1.80	70563.00	1.01	0.53	110129.00	457939.00	0.72	6.31	60076.50	1.01	2.92	26794.90	44723.30	0.00	0.00	0.
7	7	SLV	0.36	1195.50	871.07	1.80	70563.00	1.02	0.53	111087.00	457939.00	0.72	6.31	60076.50	1.02	2.92	27068.40	44723.30	0.00	0.00	0.
7	7	SLV	0.36	1195.50	132.80	1.80	70563.00	1.02	0.53	110708.00	457939.00	0.72	6.31	60076.50	1.02	2.92	26960.20	44723.30	0.00	0.00	0.
7	9	SLU	0.36	1552.39	461.49	1.80	104667.00	1.02	0.53	163957.00	457939.00	0.72	6.31	88720.00	1.02	2.92	39744.50	44723.30	0.00	0.00	0.
10	1	SLV	0.36	3380.93	1004.11	1.80	69482.50	1.05	0.53	112529.00	457939.00	0.72	6.31	59012.40	1.06	2.50	27486.70	44723.30	0.00	0.00	0.
10	1	SLV	0.36	3380.93	213.57	1.80	69482.50	1.05	0.53	112339.00	457939.00	0.72	6.31	59012.40	1.06	2.50	27432.70	44723.30	0.00	0.00	0.
10	1	SLV	0.36	1048.07	1004.11	1.80	69482.50	1.02	0.53	109364.00	457939.00	0.72	6.31	59012.40	1.02	2.50	26584.00	44723.30	0.00	0.00	0.
10	1	SLV	0.36	1048.07	213.57	1.80	69482.50	1.02	0.53	108837.00	457939.00	0.72	6.31	59012.40	1.02	2.50	26433.90	44723.30	0.00	0.00	0.
10	1	SLV	0.36	3380.93	1004.11	1.80	70107.90	1.05	0.53	113494.00	457939.00	0.72	6.31	59637.80	1.06	2.50	27761.90	44723.30	0.00	0.00	0.
10	1	SLV	0.36	3380.93	213.57	1.80	70107.90	1.05	0.53	113304.00	457939.00	0.72	6.31	59637.80	1.06	2.50	27707.90	44723.30	0.00	0.00	0.
10	1	SLV	0.36	1048.07	1004.11	1.80	70107.90	1.02	0.53	110329.00	457939.00	0.72	6.31	59637.80	1.02	2.50	26859.30	44723.30	0.00	0.00	0.
10	1	SLV	0.36	1048.07	213.57	1.80	70107.90	1.01	0.53	109802.00	457939.00	0.72	6.31	59637.80	1.02	2.50	26709.10	44723.30	0.00	0.00	0.
10	3	SLV	0.36	3010.52	736.51	1.80	69571.50	1.04	0.53	112029.00	457939.00	0.72	6.31	59101.50	1.05	2.50	27344.20	44723.30	0.00	0.00	0.
10	3	SLV	0.36	3010.52	481.17	1.80	69571.50	1.04	0.53	111960.00	457939.00	0.72	6.31	59101.50	1.05	2.50	27324.50	44723.30	0.00	0.00	0.
10	3	SLV	0.36	677.66	736.51	1.80	69571.50	1.01	0.53	108833.00	457939.00	0.72	6.31	59101.50	1.02	2.50	26432.50	44723.30	0.00	0.00	0.
10	3	SLV	0.36	677.66	481.17	1.80	69571.50	1.01	0.53	108597.00	457939.00	0.72	6.31	59101.50	1.01	2.50	26365.20	44723.30	0.00	0.00	0.
10	3	SLV	0.36	3010.52	736.51	1.80	70018.80	1.04	0.53	112719.00	457939.00	0.72	6.31	59548.70	1.05	2.50	27541.00	44723.30	0.00	0.00	0.
10	3	SLV	0.36	3010.52	481.17	1.80	70018.80	1.04	0.53	112650.00	457939.00	0.72	6.31	59548.70	1.05	2.50	27521.40	44723.30	0.00	0.00	0.
10	3	SLV	0.36	677.66	736.51	1.80	70018.80	1.01	0.53	109523.00	457939.00	0.72	6.31	59548.70	1.02	2.50	26629.40	44723.30	0.00	0.00	0.
10	3	SLV	0.36	677.66	481.17	1.80	70018.80	1.01	0.53	109287.00	457939.00	0.72	6.31	59548.70	1.01	2.50	26562.10	44723.30	0.00	0.00	0.
10	5	SLV	0.36	2392.56	1133.28	1.80	69566.40	1.04	0.53	111315.00	457939.00	0.72	6.31	59096.30	1.04	2.50	27140.60	44723.30	0.00	0.00	0.
10	5	SLV	0.36	2392.56	84.40	1.80	69566.40	1.03	0.53	110969.00	457939.00	0.72	6.31	59096.30	1.04	2.50	27042.00	44723.30	0.00	0.00	0.
10	5	SLV	0.36	59.71	1133.28	1.80	69566.40	1.02	0.53	108981.00	457939.00	0.72	6.31	59096.30	1.02	2.50	26474.70	44723.30	0.00	0.00	0.
10	5	SLV	0.36	59.71	84.40	1.80	69566.40	1.00	0.53	107506.00	457939.00	0.72	6.31	59096.30	1.00	2.50	26054.20	44723.30	0.00	0.00	0.
10	5	SLV	0.36	2392.56	1133.28	1.80	70024.00	1.04	0.53	112021.00	457939.00	0.72	6.31	59553.90	1.04	2.50	27342.00	44723.30	0.00	0.00	0.
10	5	SLV	0.36	2392.56	84.40	1.80	70024.00	1.03	0.53	111676.00	457939.00	0.72	6.31	59553.90	1.04	2.50	27243.40	44723.30	0.00	0.00	0.
10	5	SLV	0.36	59.71	1133.28	1.80	70024.00	1.02	0.53	109687.00	457939.00	0.72	6.31	59553.90	1.02	2.50	26676.10	44723.30	0.00	0.00	0.
10	5	SLV	0.36	59.71	84.40	1.80	70024.00	1.00	0.53	108212.00	457939.00	0.72	6.31	59553.90	1.00	2.50	26255.60	44723.30	0.00	0.00	0.
10	7	SLV	0.36	1174.99	976.39	1.80	69727.30	1.02	0.53	109862.00	457939.00	0.72	6.31	59257.20	1.02	2.50	26726.20	44723.30	0.00	0.00	0.
10	7	SLV	0.36	1174.99	241.28	1.80	69727.30	1.02	0.53	109411.00	457939.00	0.72	6.31	59257.20	1.02	2.50	26597.40	44723.30	0.00	0.00	0.
10	7	SLV	0.36	1157.87	976.39	1.80	69727.30	1.02	0.53	109842.00	457939.00	0.72	6.31	59257.20	1.02	2.50	26720.40	44723.30	0.00	0.00	0.
10	7	SLV	0.36	1157.87	241.28	1.80	69727.30	1.02	0.53	109385.00	457939.00	0.72	6.31	59257.20	1.02	2.50	26590.20	44723.30	0.00	0.00	0.
10	7	SLV	0.36	1174.99	976.39	1.80	69863.10	1.02	0.53	110072.00	457939.00	0.72	6.31	59393.00	1.02	2.50	26786.00	44723.30	0.00	0.00	0.
10	7	SLV	0.36	1174.99	241.28	1.80	69863.10	1.02	0.53	109620.00	457939.00	0.72	6.31	59393.00	1.02	2.50	26657.20	44723.30	0.00	0.00	0.
10	7	SLV	0.36	1157.87	976.39	1.80	69863.10	1.02	0.53	110052.00	457939.00	0.72	6.31	59393.00	1.02	2.50	26780.20	44723.30	0.00	0.00	0.
10	7	SLV	0.36	1157.87	241.28	1.80	69863.10	1.02	0.53	109595.00	457939.00	0.72	6.31	59393.00	1.02	2.50	26650.00	44723.30	0.00	0.00	0.
10	9	SLU	0.36	1335.73	839.34	1.80	103524.00	1.01	0.53	162107.00	457939.00	0.72	6.31	87606.30	1.02	2.50	39229.40	44723.30	0.00	0.00	0.
11	1	SLV	0.36	800.63	1154.77	1.80	69088.40	1.02	0.53	108666.00	457939.00	0.72	6.31	58593.80	1.02	2.50	26374.20	44723.30	0.00	0.00	0.
11	1	SLV	0.36	800.63	262.80	1.80	69088.40	1.01	0.53	107884.00	457939.00	0.72	6.31	58593.80	1.01	2.50	26151.10	44723.30	0.00	0.00	0.
11	1	SLV	0.36	3978.31	1154.77	1.80	69088.40	1.06	0.53	112847.00	457939.00	0.72	6.31	58593.80	1.07	2.50	27566.70	44723.30	0.00	0.00	0.
11	1	SLV	0.36	3978.31	262.80	1.80	69088.40	1.06	0.53	112635.00	457939.00	0.72	6.31	58593.80	1.07	2.50	27506.40	44723.30	0.00	0.00	0.
11	1	SLV	0.36	800.63	1154.77	1.80	70048.70	1.02	0.53	110148.00	457939.00	0.72	6.31	59554.10	1.02	2.50	26796.90	44723.30	0.00	0.00	0.
11	1	SLV	0.36	800.63	262.80	1.80	70048.70	1.01	0.53	109366.00	457939.00	0.72	6.31	59554.10	1.01	2.50	26573.80	44723.30	0.00	0.00	0.
11	1	SLV	0.36	3978.31	1154.77	1.80	70048.70	1.06	0.53	114329.00	457939.00	0.72	6.31	59554.10	1.07	2.50	27989.40	44723.30	0.00	0.00	0.
11	1	SLV	0.36	3978.31	262.80	1.80	70048.70	1.06	0.53	114117.00	457939.00	0.72	6.31	59554.10	1.07	2.50	27929.10	44723.30	0.00	0.00	0.
11	3	SLV	0.36	583.22	833.81	1.80	69362.00	1.01	0.53	108523.00	457939.00	0.72	6.31	58867.50	1.02	2.50	26333.60	44723.30	0.00	0.00	0.
11	3	SLV	0.36	583.22	583.76	1.80	69362.00	1.01	0.53	108254.00	457939.00	0.72	6.31	58867.50	1.01	2.50	26256.70	44723.30	0.00	0.00	0.
11	3	SLV	0.36	3760.90	833.81	1.80	69362.00	1.05	0.53	112842.00	457939.00	0.72	6.31	58867.50	1.06	2.50	27565.30	44723.30	0.00	0.00	0.
11	3	SLV	0.36	3760.90	583.76	1.80	69362.00	1.05	0.53	112779.00	457939.00	0.72	6.31	58867.50	1.06	2.50	27547.30	44723.30	0.00	0.00	0.
11	3	SLV	0.36	583.22	833.81	1.80	69775.00	1.01	0.53	109161.00	457939.00	0.72	6.31	59280.50	1.02	2.50	26515.40	44723.30	0.00	0.00	0.
11	3	SLV	0.36	583.22	583.76	1.80	69775.00	1.01	0.53	108891.00	457939.00	0.72	6.31	59280.50	1.01	2.50	26438.50	44723.30	0.00	0.00	0.
11	3	SLV	0.36	3760.90	833.81	1.80	69775.00	1.05	0.53	113479.00	457939.00	0.72	6.31	59280.50	1.06	2.50	27747.10	44723.30	0.00	0.00	0.
11	3	SLV	0.36	3760.90	583.76	1.80	69775.00	1.05	0.53	113416.00	457939.00	0.72	6.31	59280.50	1.06	2.50	27729.10	44723.30	0.00	0.00	0.
11	5	SLV	0.36	542.27	1329.37	1.80	69009.50	1.02	0.53	108568.00	457939.00	0.72	6.31	58514.90	1.02	2.50	26346.30	44723.30	0.00	0.00	0.
11	5	SLV	0.36	542.27	88.19	1.80	69009.50	1.01	0.53	107324.00	457939.00	0.72	6.31	58514.90	1.01	2.50	25991.60	44723.30	0.00	0.00	0.
11	5	SLV	0.36	2635.41	1329.37	1.80	69009.50	1.04	0.53	110906.00	457939.00	0.72	6.31	58514.90	1.05	2.50	27013.20	44723.30	0.00	0.00	0.
11	5	SLV	0.36	2635.41	88.19	1.80	69009.50	1.04	0.53	110476.00	457939.00	0.72	6.31	58514.90	1.04	2.50	26890.60	44723.30	0.00	0.00	0.
11	5	SLV	0.36	542.27	1329.37	1.80	70127.60	1.02	0.53	110293.00	457939.00	0.72	6.31	59633.10	1.02	2.50	26838.40	44723.30	0.00	0.00	0.
11	5	SLV	0.36	542.27	88.19	1.80	70127.60	1.01	0.53	109050.00	457939.00	0.72	6.31	59633.10	1.01	2.50	26483.70	44723.30	0.00	0.00	0.
11	5	SLV	0.36	2635.41	1329.37	1.80	70127.60	1.04	0.53	112632.00	457939.00	0.72	6.31	59633.10	1.05	2.50	27505.40	44723.30	0.00	0.00	0.
11	5	SLV	0.36	2635.41	88.19	1.80	70127.60	1.04	0.53	112202.00	457939.00	0.72	6.31	59633.10	1.04	2.50	27382.80	44723.30	0.00	0.00	0.
11	7	SLV	0.36	1910.72	1158.07	1.80	69215.50	1.03	0.53	110141.00	457939.00	0.72	6.31	58720.90	1.04	2.50	26794.90	44723.30	0.00	0.00	0.
11	7	SLV	0.36	1910.72	259.50	1.80	69215.50	1.03	0.53	109722.00	457939.00	0.72	6.31	58720.90	1.03	2.50	26675.50	44723.30	0.00	0.00	0.
11	7	SLV	0.36	1266.96	1158.07	1.80	69215.50	1.02	0.53	109345.00	457939.00	0.72	6.31	58720.90	1.03	2.50	26568.00	44723.30	0.00	0.00	0.
11	7	SLV	0.36	1266.96	259.50	1.80	69215.50	1.02	0.53	108762.00	457939.00	0.72	6.31	58720.90	1.02	2.50	26401.70	44723.30	0.00	0.00	0.
11	7	SLV	0.36	1910.72	1158.07	1.80	69921.60	1.03	0.53	111231.00	457939.00	0.72	6.31	59427.10	1.04	2.50	27105.70	44723.30	0.00	0.00	0.
11	7	SLV	0.36	1910.72	259.50	1.80	69921.60	1.03	0.53	110812.00	457939.00	0.72	6.31	59427.10	1.03	2.50	26986.30	44723.30	0.00	0.00	0.
11	7	SLV	0.36	1266.96	1158.07	1.80	69921.60	1.02	0.53	110435.00	457939.00	0.72	6.31	59427.10	1.03	2.50	26878.80	44723.30	0.00	0.00	0.
11	7	SLV	0.36	1266.96	259.50	1.80	69921.60	1.02	0.53	109852.00	457939.00	0.72	6.31	59427.10	1.02	2.50	26712.50	44723.30	0.00	0.00	0.
11	9	SLU	0.36	2396.29	998.58	1.80	103201.00	1.02	0.53	163150.00	457939.00	0.72	6.31	87239.00	1.03	2.50	39507.60	44723.30	0.00	0.00	0.
14	1	SLV	0.36	2484.85	353.09	1.60	62893.60	1.04	0.53	113453.00	457939.00	0.72	6.11	53138.20	1.05	2.14	25270.20	44723.30	0.00	0.00	0.
14	1	SLV	0.36	2484.85	281.98	1.60	62893.60	1.04	0.53	113437.00	457939.00	0.72	6.11	53138.20	1.05	2.14	25266.20	44723.30	0.00	0.00	0.
14	1	SLV	0.36	543.16	353.09	1.60	62893.60	1.01	0.53	110290.00	457939.00	0.72	6.11	53138.20	1.01	2.14	24442.30	44723.30	0.00	0.00	0.
14	1	SLV	0.36	543.16	281.98	1.60	62893.60	1.01	0.53	110229.00	457939.00	0.72	6.11	53138.20	1.01	2.14	24426.30	44723.30	0.00	0.00	0.
14	1	SLV	0.36	2484.85	353.09	1.60	63617.90	1.04	0.53	114710.00	457939.00	0.72	6.11	53862.50	1.05	2.14	25599.50	44723.30	0.00	0.00	0.
14	1	SLV	0.36	2484.85	281.98	1.60	63617.90	1.04	0.53	114695.00	457939.00	0.72	6.11	53862.50	1.05	2.14	25595.50	44723.30	0.00	0.00	0.
14	1	SLV	0.36	543.16	353.09	1.60	63617.90	1.01	0.53	111548.00	457939.00	0.72	6.11	53862.50	1.01	2.14	24771.50	44723.30	0.00	0.00	0.
14	1	SLV	0.36	543.16	281.98	1.60	63617.90	1.01	0.53	111487.00	457939.00	0.72	6.11	53862.50	1.01	2.14	24755.60	44723.30	0.00	0.00	0.
14	3	SLV	0.36	2267.13	135.65	1.60	62920.60	1.04	0.53	113094.00	457939.00	0.72	6.11	53165.20	1.04	2.14	25176.40	44723.30	0.00	0.00	0.
14	3	SLV	0.36	2267.13	64.54	1.60	62920.60	1.04	0.53	113089.00	457939.00	0.72	6.11	53165.20	1.04	2.14	25175.00	44723.30	0.00	0.00	0.
14	3	SLV	0.36	325.44	135.65	1.60	62920.60	1.01	0.53	109836.00	457939.00	0.72	6.11	53165.20	1.01	2.14	24323.20	44723.30	0.00	0.00	0.

14	3	SLV	0.36	325.44	64.54	1.60	62920.60	1.01	0.53	109800.00	457939.00	0.72	6.11	53165.20	1.01	2.14	24314.00	44723.30	0.00	0.00	0.
14	3	SLV	0.36	2267.13	135.65	1.60	63590.90	1.03	0.53	114258.00	457939.00	0.72	6.11	53835.50	1.04	2.14	25481.10	44723.30	0.00	0.00	0.
14	3	SLV	0.36	2267.13	64.54	1.60	63590.90	1.03	0.53	114253.00	457939.00	0.72	6.11	53835.50	1.04	2.14	25479.70	44723.30	0.00	0.00	0.
14	3	SLV	0.36	325.44	135.65	1.60	63590.90	1.01	0.53	111000.00	457939.00	0.72	6.11	53835.50	1.01	2.14	24628.00	44723.30	0.00	0.00	0.
14	3	SLV	0.36	325.44	64.54	1.60	63590.90	1.01	0.53	110964.00	457939.00	0.72	6.11	53835.50	1.01	2.14	24618.70	44723.30	0.00	0.00	0.
14	5	SLV	0.36	1755.25	460.60	1.60	63106.20	1.03	0.53	112641.00	457939.00	0.72	6.11	53350.80	1.03	2.14	25057.80	44723.30	0.00	0.00	0.
14	5	SLV	0.36	1755.25	389.49	1.60	63106.20	1.03	0.53	112613.00	457939.00	0.72	6.11	53350.80	1.03	2.14	25050.30	44723.30	0.00	0.00	0.
14	5	SLV	0.36	186.44	460.60	1.60	63106.20	1.01	0.53	110403.00	457939.00	0.72	6.11	53350.80	1.01	2.14	24471.80	44723.30	0.00	0.00	0.
14	5	SLV	0.36	186.44	389.49	1.60	63106.20	1.01	0.53	110293.00	457939.00	0.72	6.11	53350.80	1.01	2.14	24442.90	44723.30	0.00	0.00	0.
14	5	SLV	0.36	1755.25	460.60	1.60	63405.30	1.03	0.53	113160.00	457939.00	0.72	6.11	53649.90	1.03	2.14	25193.70	44723.30	0.00	0.00	0.
14	5	SLV	0.36	1755.25	389.49	1.60	63405.30	1.03	0.53	113132.00	457939.00	0.72	6.11	53649.90	1.03	2.14	25186.30	44723.30	0.00	0.00	0.
14	5	SLV	0.36	186.44	460.60	1.60	63405.30	1.01	0.53	110922.00	457939.00	0.72	6.11	53649.90	1.01	2.14	24607.80	44723.30	0.00	0.00	0.
14	5	SLV	0.36	186.44	389.49	1.60	63405.30	1.01	0.53	110812.00	457939.00	0.72	6.11	53649.90	1.01	2.14	24578.80	44723.30	0.00	0.00	0.
14	7	SLV	0.36	912.17	335.31	1.60	63315.40	1.02	0.53	111573.00	457939.00	0.72	6.11	53560.00	1.02	2.14	24778.10	44723.30	0.00	0.00	0.
14	7	SLV	0.36	912.17	264.20	1.60	63315.40	1.01	0.53	111535.00	457939.00	0.72	6.11	53560.00	1.02	2.14	24768.20	44723.30	0.00	0.00	0.
14	7	SLV	0.36	1029.52	335.31	1.60	63315.40	1.02	0.53	111761.00	457939.00	0.72	6.11	53560.00	1.02	2.14	24827.40	44723.30	0.00	0.00	0.
14	7	SLV	0.36	1029.52	264.20	1.60	63315.40	1.02	0.53	111728.00	457939.00	0.72	6.11	53560.00	1.02	2.14	24818.60	44723.30	0.00	0.00	0.
14	7	SLV	0.36	912.17	335.31	1.60	63196.10	1.02	0.53	111366.00	457939.00	0.72	6.11	53440.70	1.02	2.14	24723.80	44723.30	0.00	0.00	0.
14	7	SLV	0.36	912.17	264.20	1.60	63196.10	1.01	0.53	111328.00	457939.00	0.72	6.11	53440.70	1.02	2.14	24714.00	44723.30	0.00	0.00	0.
14	7	SLV	0.36	1029.52	335.31	1.60	63196.10	1.02	0.53	111554.00	457939.00	0.72	6.11	53440.70	1.02	2.14	24773.20	44723.30	0.00	0.00	0.
14	7	SLV	0.36	1029.52	264.20	1.60	63196.10	1.02	0.53	111520.00	457939.00	0.72	6.11	53440.70	1.02	2.14	24764.30	44723.30	0.00	0.00	0.
14	9	SLU	0.36	1147.69	60.30	1.60	94060.50	1.01	0.53	165251.00	457939.00	0.72	6.11	79163.50	1.01	2.14	36495.20	44723.30	0.00	0.00	0.
15	1	SLV	0.36	328.27	600.54	1.60	63000.50	1.01	0.53	110538.00	457939.00	0.72	6.11	53233.80	1.01	2.14	24502.00	44723.30	0.00	0.00	0.
15	1	SLV	0.36	328.27	163.47	1.60	63000.50	1.01	0.53	109999.00	457939.00	0.72	6.11	53233.80	1.01	2.14	24360.70	44723.30	0.00	0.00	0.
15	1	SLV	0.36	3342.74	600.54	1.60	63000.50	1.05	0.53	115144.00	457939.00	0.72	6.11	53233.80	1.06	2.14	25707.90	44723.30	0.00	0.00	0.
15	1	SLV	0.36	3342.74	163.47	1.60	63000.50	1.05	0.53	115060.00	457939.00	0.72	6.11	53233.80	1.06	2.14	25685.80	44723.30	0.00	0.00	0.
15	1	SLV	0.36	328.27	600.54	1.60	63681.40	1.01	0.53	111720.00	457939.00	0.72	6.11	53914.60	1.01	2.14	24811.50	44723.30	0.00	0.00	0.
15	1	SLV	0.36	328.27	163.47	1.60	63681.40	1.01	0.53	111181.00	457939.00	0.72	6.11	53914.60	1.01	2.14	24670.20	44723.30	0.00	0.00	0.
15	1	SLV	0.36	3342.74	600.54	1.60	63681.40	1.05	0.53	116326.00	457939.00	0.72	6.11	53914.60	1.06	2.14	26017.40	44723.30	0.00	0.00	0.
15	1	SLV	0.36	3342.74	163.47	1.60	63681.40	1.05	0.53	116242.00	457939.00	0.72	6.11	53914.60	1.06	2.14	25995.30	44723.30	0.00	0.00	0.
15	3	SLV	0.36	117.54	292.42	1.60	63362.10	1.00	0.53	110539.00	457939.00	0.72	6.11	53595.30	1.01	2.14	24502.10	44723.30	0.00	0.00	0.
15	3	SLV	0.36	117.54	144.65	1.60	63362.10	1.00	0.53	110320.00	457939.00	0.72	6.11	53595.30	1.00	2.14	24444.90	44723.30	0.00	0.00	0.
15	3	SLV	0.36	3132.01	292.42	1.60	63362.10	1.05	0.53	115346.00	457939.00	0.72	6.11	53595.30	1.06	2.14	25760.80	44723.30	0.00	0.00	0.
15	3	SLV	0.36	3132.01	144.65	1.60	63362.10	1.05	0.53	115328.00	457939.00	0.72	6.11	53595.30	1.06	2.14	25756.20	44723.30	0.00	0.00	0.
15	3	SLV	0.36	117.54	292.42	1.60	63319.80	1.00	0.53	110465.00	457939.00	0.72	6.11	53553.10	1.01	2.14	24482.90	44723.30	0.00	0.00	0.
15	3	SLV	0.36	117.54	144.65	1.60	63319.80	1.00	0.53	110247.00	457939.00	0.72	6.11	53553.10	1.00	2.14	24425.70	44723.30	0.00	0.00	0.
15	3	SLV	0.36	3132.01	292.42	1.60	63319.80	1.05	0.53	115273.00	457939.00	0.72	6.11	53553.10	1.06	2.14	25741.60	44723.30	0.00	0.00	0.
15	3	SLV	0.36	3132.01	144.65	1.60	63319.80	1.05	0.53	115255.00	457939.00	0.72	6.11	53553.10	1.06	2.14	25737.00	44723.30	0.00	0.00	0.
15	5	SLV	0.36	636.97	800.46	1.60	62690.50	1.02	0.53	110575.00	457939.00	0.72	6.11	52923.70	1.02	2.14	24511.60	44723.30	0.00	0.00	0.
15	5	SLV	0.36	636.97	363.39	1.60	62690.50	1.01	0.53	110083.00	457939.00	0.72	6.11	52923.70	1.01	2.14	24382.80	44723.30	0.00	0.00	0.
15	5	SLV	0.36	2377.50	800.46	1.60	62690.50	1.04	0.53	113098.00	457939.00	0.72	6.11	52923.70	1.05	2.14	25172.20	44723.30	0.00	0.00	0.
15	5	SLV	0.36	2377.50	363.39	1.60	62690.50	1.04	0.53	112922.00	457939.00	0.72	6.11	52923.70	1.04	2.14	25126.20	44723.30	0.00	0.00	0.
15	5	SLV	0.36	636.97	800.46	1.60	63991.40	1.02	0.53	112833.00	457939.00	0.72	6.11	54224.70	1.02	2.14	25103.00	44723.30	0.00	0.00	0.
15	5	SLV	0.36	636.97	363.39	1.60	63991.40	1.01	0.53	112342.00	457939.00	0.72	6.11	54224.70	1.01	2.14	24974.20	44723.30	0.00	0.00	0.
15	5	SLV	0.36	2377.50	800.46	1.60	63991.40	1.04	0.53	115357.00	457939.00	0.72	6.11	54224.70	1.05	2.14	25763.60	44723.30	0.00	0.00	0.
15	5	SLV	0.36	2377.50	363.39	1.60	63991.40	1.04	0.53	115181.00	457939.00	0.72	6.11	54224.70	1.04	2.14	25717.60	44723.30	0.00	0.00	0.
15	7	SLV	0.36	1675.06	663.69	1.60	62786.30	1.03	0.53	112064.00	457939.00	0.72	6.11	53019.50	1.03	2.14	24901.40	44723.30	0.00	0.00	0.
15	7	SLV	0.36	1675.06	226.62	1.60	62786.30	1.03	0.53	111875.00	457939.00	0.72	6.11	53019.50	1.03	2.14	24851.90	44723.30	0.00	0.00	0.
15	7	SLV	0.36	1339.41	663.69	1.60	62786.30	1.02	0.53	111543.00	457939.00	0.72	6.11	53019.50	1.03	2.14	24765.00	44723.30	0.00	0.00	0.
15	7	SLV	0.36	1339.41	226.62	1.60	62786.30	1.02	0.53	111311.00	457939.00	0.72	6.11	53019.50	1.03	2.14	24704.30	44723.30	0.00	0.00	0.
15	7	SLV	0.36	1675.06	663.69	1.60	63895.70	1.03	0.53	113990.00	457939.00	0.72	6.11	54128.90	1.03	2.14	25405.70	44723.30	0.00	0.00	0.
15	7	SLV	0.36	1675.06	226.62	1.60	63895.70	1.03	0.53	113801.00	457939.00	0.72	6.11	54128.90	1.03	2.14	25356.20	44723.30	0.00	0.00	0.
15	7	SLV	0.36	1339.41	663.69	1.60	63895.70	1.02	0.53	113469.00	457939.00	0.72	6.11	54128.90	1.03	2.14	25269.20	44723.30	0.00	0.00	0.
15	7	SLV	0.36	1339.41	226.62	1.60	63895.70	1.02	0.53	113237.00	457939.00	0.72	6.11	54128.90	1.02	2.14	25208.60	44723.30	0.00	0.00	0.
15	9	SLU	0.36	2269.79	216.54	1.60	94185.80	1.02	0.53	167389.00	457939.00	0.72	6.11	79247.70	1.03	2.14	37036.30	44723.30	0.00	0.00	0.
18	1	SLV	0.36	2320.03	1015.08	1.60	59092.20	1.04	0.53	106891.00	457939.00	0.72	6.11	49531.40	1.05	2.14	23640.80	44723.30	0.00	0.00	0.
18	1	SLV	0.36	2320.03	358.30	1.60	59092.20	1.04	0.53	106577.00	457939.00	0.72	6.11	49531.40	1.05	2.14	23558.60	44723.30	0.00	0.00	0.
18	1	SLV	0.36	782.06	1015.08	1.60	59092.20	1.02	0.53	104767.00	457939.00	0.72	6.11	49531.40	1.03	2.14	23084.50	44723.30	0.00	0.00	0.
18	1	SLV	0.36	782.06	358.30	1.60	59092.20	1.01	0.53	104051.00	457939.00	0.72	6.11	49531.40	1.02	2.14	22897.20	44723.30	0.00	0.00	0.
18	1	SLV	0.36	2320.03	1015.08	1.60	60316.70	1.04	0.53	109017.00	457939.00	0.72	6.11	50755.90	1.05	2.14	24197.40	44723.30	0.00	0.00	0.
18	1	SLV	0.36	2320.03	358.30	1.60	60316.70	1.04	0.53	108703.00	457939.00	0.72	6.11	50755.90	1.05	2.14	24115.20	44723.30	0.00	0.00	0.
18	1	SLV	0.36	782.06	1015.08	1.60	60316.70	1.02	0.53	106893.00	457939.00	0.72	6.11	50755.90	1.02	2.14	23641.10	44723.30	0.00	0.00	0.
18	1	SLV	0.36	782.06	358.30	1.60	60316.70	1.01	0.53	106177.00	457939.00	0.72	6.11	50755.90	1.02	2.14	23453.90	44723.30	0.00	0.00	0.
18	3	SLV	0.36	2082.62	779.41	1.60	59225.60	1.04	0.53	106599.00	457939.00	0.72	6.11	49664.80	1.04	2.14	23564.20	44723.30	0.00	0.00	0.
18	3	SLV	0.36	2082.62	593.97	1.60	59225.60	1.04	0.53	106500.00	457939.00	0.72	6.11	49664.80	1.04	2.14	23538.40	44723.30	0.00	0.00	0.
18	3	SLV	0.36	544.65	779.41	1.60	59225.60	1.02	0.53	104437.00	457939.00	0.72	6.11	49664.80	1.02	2.14	22998.20	44723.30	0.00	0.00	0.
18	3	SLV	0.36	544.65	593.97	1.60	59225.60	1.01	0.53	104191.00	457939.00	0.72	6.11	49664.80	1.02	2.14	22933.70	44723.30	0.00	0.00	0.
18	3	SLV	0.36	2082.62	779.41	1.60	60183.40	1.04	0.53	108261.00	457939.00	0.72	6.11	50622.60	1.04	2.14	23999.50	44723.30	0.00	0.00	0.
18	3	SLV	0.36	2082.62	593.97	1.60	60183.40	1.04	0.53	108163.00	457939.00	0.72	6.11	50622.60	1.04	2.14	23973.70	44723.30	0.00	0.00	0.
18	3	SLV	0.36	544.65	779.41	1.60	60183.40	1.02	0.53	106100.00	457939.00	0.72	6.11	50622.60	1.02	2.14	23433.50	44723.30	0.00	0.00	0.
18	3	SLV	0.36	544.65	593.97	1.60	60183.40	1.01	0.53	105854.00	457939.00	0.72	6.11	50622.60	1.02	2.14	23369.10	44723.30	0.00	0.00	0.
18	5	SLV	0.36	1594.36	1142.64	1.60	59318.60	1.03	0.53	106315.00	457939.00	0.72	6.11	49757.80	1.04	2.14	23489.80	44723.30	0.00	0.00	0.
18	5	SLV	0.36	1594.36	230.74	1.60	59318.60	1.03	0.53	105719.00	457939.00	0.72	6.11	49757.80	1.03	2.14	23334.00	44723.30	0.00	0.00	0.
18	5	SLV	0.36	56.39	1142.64	1.60	59318.60	1.02	0.53	104926.00	457939.00	0.72	6.11	49757.80	1.02	2.14	23126.30	44723.30	0.00	0.00	0.
18	5	SLV	0.36	56.39	230.74	1.60	59318.60	1.00	0.53	103387.00	457939.00	0.72	6.11	49757.80	1.00	2.14	22723.20	44723.30	0.00	0.00	0.
18	5	SLV	0.36	1594.36	1142.64	1.60	60090.40	1.03	0.53	107655.00	457939.00	0.72	6.11	50529.60	1.04	2.14	23840.70	44723.30	0.00	0.00	0.
18	5	SLV	0.36	1594.36	230.74	1.60	60090.40	1.03	0.53	107059.00	457939.00	0.72	6.11	50529.60	1.03	2.14	23684.80	44723.30	0.00	0.00	0.
18	5	SLV	0.36	56.39	1142.64	1.60	60090.40	1.02	0.53	106266.00	457939.00	0.72	6.11	50529.60	1.02	2.14	23477.20	44723.30	0.00	0.00	0.
18	5	SLV	0.36	56.39	230.74	1.60	60090.40	1.00	0.53	104727.00	457939.00	0.72	6.11	50529.60	1.00	2.14	23074.10	44723.30	0.00	0.00	0.
18	7	SLV	0.36	734.96	1016.30	1.60	59645.90	1.02	0.53	105682.00	457939.00	0.72	6.11	50085.10	1.02	2.14	23324.10	44723.30	0.00	0.00	0.
18	7	SLV	0.36	734.96	357.07	1.60	59645.90	1.01	0.53	104939.00	457939.00	0.72	6.11	50085.10	1.02	2.14	23129.80	44723.30	0.00	0.00	0.
18	7	SLV	0.36	803.01	1016.30	1.60	59645.90	1.02	0.53	105752.00	457939.00	0.72	6.11	50085.10	1.03	2.14	23342.40	44723.30	0.00	0.00	0.
18	7	SLV	0.36	803.01	357.07	1.60	59645.90	1.01	0.53	105044.00	457939.00	0.72	6.11	50085.10	1.02	2.14	23157.20	44723.30	0.00	0.00	0.
18	7	SLV	0.36	734.96	1016.30	1.60	59763.00	1.02	0.53	105885.00	457939.00	0.72	6.11	50202.20	1.02	2.14	23377.40	44723.30	0.00	0.00	0.
18	7	SLV	0.36	734.96	357.07	1.60	59763.00	1.01	0.53	105143.00	457939.00	0.72	6.11	50202.20	1.02	2.14	23183.00	44723.30	0.00	0.00	0.
18	7	SLV	0.36	803.01	1016.30	1.60	59763.00	1.02	0.53	105955.00	457939.00	0.72	6.11	50202.20	1.03	2.14	23395.60	44723.30	0.00	0.00	0.
18	7	SLV	0.36	803.01	357.07	1.60	59763.00	1.01	0.53	105248.00	457939.00	0.72	6.11	50202.20	1.02	2.14	23210.40	44723.30	0.00	0.00	0.
18	9	SLU	0.36	873.14	1030.69	1.60	88812.90	1.01	0.53	156483.00	457939.00	0.72	6.11	74193.10	1.02	2.14	34325.50	44723.30	0.00	0.00	0.
19	1	SLV	0.36	622.36	855.57	1.60	58513.30	1.02	0.53	103382.00	457939.00	0.72	6.11	48713.60	1.02	2.14	22613.50	44723.30	0.00	0.00	0.
19	1	SLV	0.36	622.36	575.42	1.60	58513.30	1.01	0.53	103025.00	457939.00	0.72	6.11	48713.60	1.02	2.14	22519.90	44723.30	0.00	0.00	0.
19	1	SLV	0.36	2976.19	855.57	1.60	58513.30	1.05	0.53	106845.00	457939.00	0.72	6.11	48713.60	1.06	2.14	23520.00	44723.30	0.00	0.00	0.
19	1	SLV	0.36	2976.19	575.42	1.60	58513.30	1.05	0.53	106734.00	457939.00	0.72	6.11	48713.60	1.06	2.14	23490.90	44723.30	0.00	0.00	0.
19	1	SLV	0.36	622.36	855.57	1.60	58787.70	1.02	0.53	103859.00	457939.00	0.72	6.11	48988.10	1.02	2.14	22738.20	44723.30	0.00	0.00	0.
19	1	SLV	0.36	622.36	575.42	1.60	58787.70	1.01	0.53	103501.00	457939.00	0.72	6.11	48988.10	1.02	2.14	22644.70	44723.30	0.00	0.00	0.
19	1	SLV	0.36	2976.19	855.57	1.60	58787.70	1.05	0.53	107321.00	457939.00	0.72	6.11	48988.10	1.06	2.14	23644.80	44723.30	0.00	0.00	0.
19	1	SLV	0.36	2976.19	575.42	1.60	58787.70	1.05	0.53	107210.00	457939.00	0.72	6.11	48988.10	1.06	2.14	23615.70	44723.30	0.00	0.00	0.
19	3	SLV	0.36	485.92	403.67	1.60	58640.40	1.01	0.53	102879.00	457939.00	0.72	6.11	48840.80	1.01	2.14	22481.70	44723.30	0.00	0.00	0.
19	3	SLV	0.36	485.92	123.53	1.60	58640.40	1.01	0.53	102658.00	457939.00	0.72	6.11	48840.80	1.01	2.14	22423.80	44723.30	0.00	0.00	0.
19	3	SLV	0.36	2839.74	403.67	1.60	58640.40	1.05	0.53	106678.00	457939.00	0.72	6.11	48840.80	1.06	2.14	23476.30	44723.30	0.00	0.00	0.
19	3	SLV	0.36	2839.74	123.53	1.60	58640.40	1.05	0.53	106634.00	457939.00	0.72	6.11	48840.80	1.06	2.14	23464.80	44723.30	0.00	0.00	0.

19	3	SLV	0.36	485.92	403.67	1.60	58660.50	1.01	0.53	102914.00	457939.00	0.72	6.11	48860.90	1.01	2.14	22490.90	44723.30	0.00	0.00	0.
19	3	SLV	0.36	485.92	123.53	1.60	58660.50	1.01	0.53	102693.00	457939.00	0.72	6.11	48860.90	1.01	2.14	22432.90	44723.30	0.00	0.00	0.
19	3	SLV	0.36	2839.74	403.67	1.60	58660.50	1.05	0.53	106712.00	457939.00	0.72	6.11	48860.90	1.06	2.14	23485.40	44723.30	0.00	0.00	0.
19	3	SLV	0.36	2839.74	123.53	1.60	58660.50	1.05	0.53	106669.00	457939.00	0.72	6.11	48860.90	1.06	2.14	23473.90	44723.30	0.00	0.00	0.
19	5	SLV	0.36	430.19	1040.09	1.60	58416.40	1.02	0.53	103329.00	457939.00	0.72	6.11	48616.80	1.02	2.14	22599.50	44723.30	0.00	0.00	0.
19	5	SLV	0.36	430.19	759.95	1.60	58416.40	1.01	0.53	102900.00	457939.00	0.72	6.11	48616.80	1.02	2.14	22487.30	44723.30	0.00	0.00	0.
19	5	SLV	0.36	1923.63	1040.09	1.60	58416.40	1.04	0.53	105131.00	457939.00	0.72	6.11	48616.80	1.04	2.14	23071.40	44723.30	0.00	0.00	0.
19	5	SLV	0.36	1923.63	759.95	1.60	58416.40	1.03	0.53	104930.00	457939.00	0.72	6.11	48616.80	1.04	2.14	23018.70	44723.30	0.00	0.00	0.
19	5	SLV	0.36	430.19	1040.09	1.60	58884.50	1.02	0.53	104142.00	457939.00	0.72	6.11	49084.90	1.02	2.14	22812.30	44723.30	0.00	0.00	0.
19	5	SLV	0.36	430.19	759.95	1.60	58884.50	1.01	0.53	103713.00	457939.00	0.72	6.11	49084.90	1.02	2.14	22700.10	44723.30	0.00	0.00	0.
19	5	SLV	0.36	1923.63	1040.09	1.60	58884.50	1.04	0.53	105944.00	457939.00	0.72	6.11	49084.90	1.04	2.14	23284.20	44723.30	0.00	0.00	0.
19	5	SLV	0.36	1923.63	759.95	1.60	58884.50	1.03	0.53	105743.00	457939.00	0.72	6.11	49084.90	1.04	2.14	23231.50	44723.30	0.00	0.00	0.
19	7	SLV	0.36	1468.82	746.36	1.60	58460.60	1.03	0.53	104292.00	457939.00	0.72	6.11	48661.00	1.03	2.14	22851.70	44723.30	0.00	0.00	0.
19	7	SLV	0.36	1468.82	466.22	1.60	58460.60	1.03	0.53	104111.00	457939.00	0.72	6.11	48661.00	1.03	2.14	22804.30	44723.30	0.00	0.00	0.
19	7	SLV	0.36	885.00	746.36	1.60	58460.60	1.02	0.53	103460.00	457939.00	0.72	6.11	48661.00	1.02	2.14	22633.90	44723.30	0.00	0.00	0.
19	7	SLV	0.36	885.00	466.22	1.60	58460.60	1.02	0.53	103193.00	457939.00	0.72	6.11	48661.00	1.02	2.14	22563.90	44723.30	0.00	0.00	0.
19	7	SLV	0.36	1468.82	746.36	1.60	58840.40	1.03	0.53	104951.00	457939.00	0.72	6.11	49040.70	1.03	2.14	23024.30	44723.30	0.00	0.00	0.
19	7	SLV	0.36	1468.82	466.22	1.60	58840.40	1.03	0.53	104771.00	457939.00	0.72	6.11	49040.70	1.03	2.14	22976.90	44723.30	0.00	0.00	0.
19	7	SLV	0.36	885.00	746.36	1.60	58840.40	1.02	0.53	104119.00	457939.00	0.72	6.11	49040.70	1.02	2.14	22806.50	44723.30	0.00	0.00	0.
19	7	SLV	0.36	885.00	466.22	1.60	58840.40	1.02	0.53	103852.00	457939.00	0.72	6.11	49040.70	1.02	2.14	22736.50	44723.30	0.00	0.00	0.
19	9	SLU	0.36	1760.05	528.41	1.60	87229.50	1.02	0.53	154561.00	457939.00	0.72	6.11	72400.80	1.02	2.14	33727.30	44723.30	0.00	0.00	0.
20	1	SLV	0.36	2860.19	3084.82	1.20	31912.00	1.13	0.53	83396.50	457939.00	0.65	3.23	24778.80	1.18	2.14	25149.70	49692.60	0.00	0.00	0.
20	1	SLV	0.36	2860.19	414.56	1.20	31912.00	1.09	0.53	80414.90	457939.00	0.68	3.34	24382.50	1.12	2.14	22706.80	47077.20	0.00	0.00	0.
20	1	SLV	0.36	4454.70	3084.82	1.20	31912.00	1.17	0.53	86140.50	457939.00	0.65	3.23	24778.80	1.23	2.14	26255.70	49692.60	0.00	0.00	0.
20	1	SLV	0.36	4454.70	414.56	1.20	31912.00	1.14	0.53	84001.50	457939.00	0.65	3.23	24778.80	1.19	2.14	25393.50	49692.60	0.00	0.00	0.
20	1	SLV	0.36	2860.19	3084.82	1.20	35490.40	1.12	0.53	91679.70	457939.00	0.72	3.46	27564.60	1.15	2.14	25466.60	44723.30	0.00	0.00	0.
20	1	SLV	0.36	2860.19	414.56	1.20	35490.40	1.08	0.53	88698.10	457939.00	0.72	3.46	27564.60	1.10	2.14	24431.20	44723.30	0.00	0.00	0.
20	1	SLV	0.36	4454.70	3084.82	1.20	35490.40	1.15	0.53	94423.80	457939.00	0.68	3.34	27960.90	1.20	2.14	27819.60	47077.20	0.00	0.00	0.
20	1	SLV	0.36	4454.70	414.56	1.20	35490.40	1.12	0.53	92284.80	457939.00	0.72	3.46	27564.60	1.16	2.14	25676.70	44723.30	0.00	0.00	0.
20	3	SLV	0.36	3145.47	2124.86	1.20	32198.30	1.12	0.53	83128.90	457939.00	0.68	3.34	24668.80	1.16	2.14	23711.10	47077.20	0.00	0.00	0.
20	3	SLV	0.36	3145.47	545.41	1.20	32198.30	1.10	0.53	81762.20	457939.00	0.68	3.34	24668.80	1.13	2.14	23200.50	47077.20	0.00	0.00	0.
20	3	SLV	0.36	4169.42	2124.86	1.20	32198.30	1.14	0.53	85130.00	457939.00	0.65	3.23	25065.10	1.20	2.14	25827.50	49692.60	0.00	0.00	0.
20	3	SLV	0.36	4169.42	545.41	1.20	32198.30	1.13	0.53	84055.10	457939.00	0.65	3.23	25065.10	1.18	2.14	25394.20	49692.60	0.00	0.00	0.
20	3	SLV	0.36	3145.47	2124.86	1.20	35204.10	1.11	0.53	90086.60	457939.00	0.72	3.46	27278.30	1.14	2.14	24913.40	44723.30	0.00	0.00	0.
20	3	SLV	0.36	3145.47	545.41	1.20	35204.10	1.09	0.53	88720.00	457939.00	0.72	3.46	27278.30	1.11	2.14	24438.80	44723.30	0.00	0.00	0.
20	3	SLV	0.36	4169.42	2124.86	1.20	35204.10	1.13	0.53	92087.80	457939.00	0.68	3.34	27674.60	1.17	2.14	26956.50	47077.20	0.00	0.00	0.
20	3	SLV	0.36	4169.42	545.41	1.20	35204.10	1.12	0.53	91012.90	457939.00	0.72	3.46	27278.30	1.15	2.14	25235.00	44723.30	0.00	0.00	0.
20	5	SLV	0.36	2985.59	3315.99	1.20	32730.20	1.13	0.53	85868.50	457939.00	0.68	3.34	25200.70	1.18	2.14	24716.70	47077.20	0.00	0.00	0.
20	5	SLV	0.36	2985.59	645.73	1.20	32730.20	1.09	0.53	82681.50	457939.00	0.68	3.34	25200.70	1.12	2.14	23526.00	47077.20	0.00	0.00	0.
20	5	SLV	0.36	4329.30	3315.99	1.20	32730.20	1.16	0.53	88113.30	457939.00	0.65	3.23	25597.00	1.23	2.14	26991.10	49692.60	0.00	0.00	0.
20	5	SLV	0.36	4329.30	645.73	1.20	32730.20	1.13	0.53	85676.40	457939.00	0.68	3.34	25200.70	1.18	2.14	24644.90	47077.20	0.00	0.00	0.
20	5	SLV	0.36	2985.59	3315.99	1.20	34672.10	1.13	0.53	90363.70	457939.00	0.68	3.34	27142.70	1.17	2.14	26330.40	47077.20	0.00	0.00	0.
20	5	SLV	0.36	2985.59	645.73	1.20	34672.10	1.09	0.53	87176.70	457939.00	0.72	3.46	26746.40	1.11	2.14	23902.80	44723.30	0.00	0.00	0.
20	5	SLV	0.36	4329.30	3315.99	1.20	34672.10	1.15	0.53	92608.50	457939.00	0.68	3.34	27142.70	1.20	2.14	27169.10	47077.20	0.00	0.00	0.
20	5	SLV	0.36	4329.30	645.73	1.20	34672.10	1.12	0.53	90171.60	457939.00	0.68	3.34	27142.70	1.16	2.14	26258.60	47077.20	0.00	0.00	0.
20	7	SLV	0.36	3378.36	2554.17	1.20	33717.80	1.12	0.53	87641.10	457939.00	0.68	3.34	26188.40	1.16	2.14	25345.50	47077.20	0.00	0.00	0.
20	7	SLV	0.36	3378.36	116.09	1.20	33717.80	1.10	0.53	85705.20	457939.00	0.72	3.46	25792.10	1.13	2.14	23391.80	44723.30	0.00	0.00	0.
20	7	SLV	0.36	3936.53	2554.17	1.20	33717.80	1.14	0.53	88676.70	457939.00	0.68	3.34	26188.40	1.18	2.14	25732.40	47077.20	0.00	0.00	0.
20	7	SLV	0.36	3936.53	116.09	1.20	33717.80	1.11	0.53	86968.60	457939.00	0.68	3.34	26188.40	1.15	2.14	25094.20	47077.20	0.00	0.00	0.
20	7	SLV	0.36	3378.36	2554.17	1.20	33684.50	1.12	0.53	87564.00	457939.00	0.68	3.34	26155.10	1.16	2.14	25317.80	47077.20	0.00	0.00	0.
20	7	SLV	0.36	3378.36	116.09	1.20	33684.50	1.10	0.53	85628.20	457939.00	0.72	3.46	25758.80	1.13	2.14	23365.10	44723.30	0.00	0.00	0.
20	7	SLV	0.36	3936.53	2554.17	1.20	33684.50	1.14	0.53	88599.60	457939.00	0.68	3.34	26155.10	1.18	2.14	25704.70	47077.20	0.00	0.00	0.
20	7	SLV	0.36	3936.53	116.09	1.20	33684.50	1.11	0.53	86891.50	457939.00	0.68	3.34	26155.10	1.15	2.14	25066.60	47077.20	0.00	0.00	0.
20	9	SLU	0.36	4912.90	2168.82	1.20	48321.40	1.11	0.53	124016.00	457939.00	0.68	3.34	37424.10	1.15	2.14	35642.70	47077.20	0.00	0.00	0.
22	1	SLV	0.36	1454.73	364.79	1.60	61053.90	1.02	0.53	108543.00	457939.00	0.72	6.11	50731.20	1.03	2.14	23727.00	44723.30	0.00	0.00	0.
22	1	SLV	0.36	1454.73	1191.97	1.60	61053.90	1.03	0.53	109190.00	457939.00	0.72	6.11	50731.20	1.04	2.14	23896.40	44723.30	0.00	0.00	0.
22	1	SLV	0.36	1617.25	364.79	1.60	61053.90	1.03	0.53	108812.00	457939.00	0.72	6.11	50731.20	1.03	2.14	23797.30	44723.30	0.00	0.00	0.
22	1	SLV	0.36	1617.25	1191.97	1.60	61053.90	1.03	0.53	109408.00	457939.00	0.72	6.11	50731.20	1.04	2.14	23953.50	44723.30	0.00	0.00	0.
22	1	SLV	0.36	1454.73	364.79	1.60	63012.20	1.02	0.53	111943.00	457939.00	0.72	6.11	52689.50	1.03	2.14	24617.20	44723.30	0.00	0.00	0.
22	1	SLV	0.36	1454.73	1191.97	1.60	63012.20	1.03	0.53	112590.00	457939.00	0.72	6.11	52689.50	1.03	2.14	24786.60	44723.30	0.00	0.00	0.
22	1	SLV	0.36	1617.25	364.79	1.60	63012.20	1.03	0.53	112212.00	457939.00	0.72	6.11	52689.50	1.03	2.14	24687.50	44723.30	0.00	0.00	0.
22	1	SLV	0.36	1617.25	1191.97	1.60	63012.20	1.03	0.53	112808.00	457939.00	0.72	6.11	52689.50	1.04	2.14	24843.60	44723.30	0.00	0.00	0.
22	3	SLV	0.36	1168.70	426.96	1.60	61185.60	1.02	0.53	108338.00	457939.00	0.72	6.11	50862.90	1.02	2.14	23673.30	44723.30	0.00	0.00	0.
22	3	SLV	0.36	1168.70	1129.80	1.60	61185.60	1.03	0.53	108986.00	457939.00	0.72	6.11	50862.90	1.03	2.14	23842.80	44723.30	0.00	0.00	0.
22	3	SLV	0.36	1331.21	426.96	1.60	61185.60	1.02	0.53	108599.00	457939.00	0.72	6.11	50862.90	1.03	2.14	23741.60	44723.30	0.00	0.00	0.
22	3	SLV	0.36	1331.21	1129.80	1.60	61185.60	1.03	0.53	109190.00	457939.00	0.72	6.11	50862.90	1.03	2.14	23896.40	44723.30	0.00	0.00	0.
22	3	SLV	0.36	1168.70	426.96	1.60	62880.50	1.02	0.53	111280.00	457939.00	0.72	6.11	52557.80	1.02	2.14	24443.70	44723.30	0.00	0.00	0.
22	3	SLV	0.36	1168.70	1129.80	1.60	62880.50	1.03	0.53	111928.00	457939.00	0.72	6.11	52557.80	1.03	2.14	24613.20	44723.30	0.00	0.00	0.
22	3	SLV	0.36	1331.21	426.96	1.60	62880.50	1.02	0.53	111542.00	457939.00	0.72	6.11	52557.80	1.03	2.14	24512.00	44723.30	0.00	0.00	0.
22	3	SLV	0.36	1331.21	1129.80	1.60	62880.50	1.03	0.53	112133.00	457939.00	0.72	6.11	52557.80	1.03	2.14	24666.80	44723.30	0.00	0.00	0.
22	5	SLV	0.36	813.37	560.02	1.60	61539.50	1.02	0.53	108516.00	457939.00	0.72	6.11	51216.80	1.02	2.14	23719.90	44723.30	0.00	0.00	0.
22	5	SLV	0.36	813.37	996.75	1.60	61539.50	1.02	0.53	109024.00	457939.00	0.72	6.11	51216.80	1.02	2.14	23852.90	44723.30	0.00	0.00	0.
22	5	SLV	0.36	975.88	560.02	1.60	61539.50	1.02	0.53	108750.00	457939.00	0.72	6.11	51216.80	1.02	2.14	23781.10	44723.30	0.00	0.00	0.
22	5	SLV	0.36	975.88	996.75	1.60	61539.50	1.02	0.53	109208.00	457939.00	0.72	6.11	51216.80	1.03	2.14	23901.10	44723.30	0.00	0.00	0.
22	5	SLV	0.36	813.37	560.02	1.60	62526.60	1.02	0.53	110230.00	457939.00	0.72	6.11	52203.90	1.02	2.14	24168.60	44723.30	0.00	0.00	0.
22	5	SLV	0.36	813.37	996.75	1.60	62526.60	1.02	0.53	110738.00	457939.00	0.72	6.11	52203.90	1.02	2.14	24301.60	44723.30	0.00	0.00	0.
22	5	SLV	0.36	975.88	560.02	1.60	62526.60	1.02	0.53	110464.00	457939.00	0.72	6.11	52203.90	1.02	2.14	24229.80	44723.30	0.00	0.00	0.
22	5	SLV	0.36	975.88	996.75	1.60	62526.60	1.02	0.53	110922.00	457939.00	0.72	6.11	52203.90	1.03	2.14	24349.80	44723.30	0.00	0.00	0.
22	7	SLV	0.36	22.42	789.52	1.60	62087.50	1.01	0.53	109132.00	457939.00	0.72	6.11	51764.80	1.01	2.14	23881.10	44723.30	0.00	0.00	0.
22	7	SLV	0.36	22.42	767.25	1.60	62087.50	1.01	0.53	109094.00	457939.00	0.72	6.11	51764.80	1.01	2.14	23871.20	44723.30	0.00	0.00	0.
22	7	SLV	0.36	140.09	789.52	1.60	62087.50	1.01	0.53	109152.00	457939.00	0.72	6.11	51764.80	1.02	2.14	23886.50	44723.30	0.00	0.00	0.
22	7	SLV	0.36	140.09	767.25	1.60	62087.50	1.01	0.53	109115.00	457939.00	0.72	6.11	51764.80	1.01	2.14	23876.70	44723.30	0.00	0.00	0.
22	7	SLV	0.36	22.42	789.52	1.60	61978.60	1.01	0.53	108943.00	457939.00	0.72	6.11	51655.90	1.01	2.14	23831.70	44723.30	0.00	0.00	0.
22	7	SLV	0.36	22.42	767.25	1.60	61978.60	1.01	0.53	108905.00	457939.00	0.72	6.11	51655.90	1.01	2.14	23821.80	44723.30	0.00	0.00	0.
22	7	SLV	0.36	140.09	789.52	1.60	61978.60	1.01	0.53	108963.00	457939.00	0.72	6.11	51655.90	1.02	2.14	23837.00	44723.30	0.00	0.00	0.
22	7	SLV	0.36	140.09	767.25	1.60	61978.60	1.01	0.53	108926.00	457939.00	0.72	6.11	51655.90	1.01	2.14	23827.30	44723.30	0.00	0.00	0.
22	9	SLU	0.36	47.48	876.50	1.60	91932.20	1.01	0.53	161095.00	457939.00	0.72	6.11	76570.60	1.01	2.14	35195.80	44723.30	0.00	0.00	0.

Armatura soletta a quota 6.35

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <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>
15.00	3.50	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	MRdy <daNm>	Sic.
217	0.00	27.31	XX	9	SLU	3.93	3.93	-1480.06	-2025.64	1.369
-1489	-1.02	27.31	XX	9	SLU	3.93	3.93	-765.56	-2025.64	2.646
-1458	-0.70	16.84	YY	9	SLU	2.51	2.51	-1011.60	-1358.08	1.343
-1506	-0.53	32.51	YY	9	SLU	2.51	2.51	-262.68	-1358.08	5.170
-1448	-1.23	13.94	YY	9	SLU	2.51	2.51	780.24	1358.08	1.741

Stato limite elastico - Verifiche a flessione/pressoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
217	0.00	27.31	XX	1	SND	3.93	3.93	-854.83	-1623.42	1.899
217	0.00	27.31	XX	1	SND	3.93	3.93	-971.08	-1623.42	1.672
217	0.00	27.31	XX	3	SND	3.93	3.93	-873.09	-1623.42	1.859
217	0.00	27.31	XX	3	SND	3.93	3.93	-952.81	-1623.42	1.704
217	0.00	27.31	XX	5	SND	3.93	3.93	-867.82	-1623.42	1.871
217	0.00	27.31	XX	5	SND	3.93	3.93	-958.09	-1623.42	1.694
217	0.00	27.31	XX	7	SND	3.93	3.93	-897.21	-1623.42	1.809
217	0.00	27.31	XX	7	SND	3.93	3.93	-928.69	-1623.42	1.748
-1489	-1.02	27.31	XX	1	SND	3.93	3.93	-412.36	-1623.42	3.937
-1489	-1.02	27.31	XX	1	SND	3.93	3.93	-530.09	-1623.42	3.063
-1489	-1.02	27.31	XX	3	SND	3.93	3.93	-430.11	-1623.42	3.774
-1489	-1.02	27.31	XX	3	SND	3.93	3.93	-512.35	-1623.42	3.169
-1489	-1.02	27.31	XX	5	SND	3.93	3.93	-426.66	-1623.42	3.805
-1489	-1.02	27.31	XX	5	SND	3.93	3.93	-515.80	-1623.42	3.147
-1489	-1.02	27.31	XX	7	SND	3.93	3.93	-456.65	-1623.42	3.555
-1489	-1.02	27.31	XX	7	SND	3.93	3.93	-485.80	-1623.42	3.342
-1488	-2.05	27.31	XX	1	SND	3.93	3.93	30.10	1623.42	53.937
-1488	-2.05	27.31	XX	1	SND	3.93	3.93	-89.10	-1623.42	18.220
-1488	-2.05	27.31	XX	3	SND	3.93	3.93	12.87	1623.42	>100
-1488	-2.05	27.31	XX	3	SND	3.93	3.93	-71.88	-1623.42	22.586
-1488	-2.05	27.31	XX	5	SND	3.93	3.93	14.50	1623.42	>100
-1488	-2.05	27.31	XX	5	SND	3.93	3.93	-73.50	-1623.42	22.086
-1488	-2.05	27.31	XX	7	SND	3.93	3.93	-16.09	-1623.42	>100
-1488	-2.05	27.31	XX	7	SND	3.93	3.93	-42.91	-1623.42	37.832
-1448	-1.23	13.94	YY	1	SND	2.51	2.51	632.11	1071.42	1.695
-1448	-1.23	13.94	YY	1	SND	2.51	2.51	377.67	1071.42	2.837
-1448	-1.23	13.94	YY	3	SND	2.51	2.51	593.29	1071.42	1.806
-1448	-1.23	13.94	YY	3	SND	2.51	2.51	416.49	1071.42	2.572
-1448	-1.23	13.94	YY	5	SND	2.51	2.51	601.93	1071.42	1.780
-1448	-1.23	13.94	YY	5	SND	2.51	2.51	407.85	1071.42	2.627
-1448	-1.23	13.94	YY	7	SND	2.51	2.51	537.25	1071.42	1.994
-1448	-1.23	13.94	YY	7	SND	2.51	2.51	472.54	1071.42	2.267
-1458	-0.70	16.84	YY	1	SND	2.51	2.51	-329.49	-1071.42	3.252
-1458	-0.70	16.84	YY	1	SND	2.51	2.51	-969.86	-1071.42	1.105
-1458	-0.70	16.84	YY	3	SND	2.51	2.51	-427.77	-1071.42	2.505
-1458	-0.70	16.84	YY	3	SND	2.51	2.51	-871.58	-1071.42	1.229
-1458	-0.70	16.84	YY	5	SND	2.51	2.51	-404.56	-1071.42	2.648
-1458	-0.70	16.84	YY	5	SND	2.51	2.51	-894.79	-1071.42	1.197
-1458	-0.70	16.84	YY	7	SND	2.51	2.51	-567.18	-1071.42	1.889
-1458	-0.70	16.84	YY	7	SND	2.51	2.51	-732.16	-1071.42	1.463
-1506	-0.53	32.51	YY	1	SND	2.51	2.51	191.74	1071.42	5.588
-1506	-0.53	32.51	YY	1	SND	2.51	2.51	-537.74	-1071.42	1.992
-1506	-0.53	32.51	YY	3	SND	2.51	2.51	77.45	1071.42	13.834
-1506	-0.53	32.51	YY	3	SND	2.51	2.51	-423.45	-1071.42	2.530
-1506	-0.53	32.51	YY	5	SND	2.51	2.51	109.77	1071.42	9.761
-1506	-0.53	32.51	YY	5	SND	2.51	2.51	-455.77	-1071.42	2.351
-1506	-0.53	32.51	YY	7	SND	2.51	2.51	-74.79	-1071.42	14.326
-1506	-0.53	32.51	YY	7	SND	2.51	2.51	-271.21	-1071.42	3.950

Stato limite ultimo - Verifiche a taglio

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	AfE St. <cmq/m>	Vsdu <daN>	ctgθ	VRcd <daN>	VRsd <daN>	Vrdu <daN>	Sic.
-1489	-1.02	27.31	XX	9	SLU	3.93	3.93		1695.04				6308.86	3.722
-1489	-1.02	27.31	XX	1	SND	3.93	3.93		1352.24				6308.86	4.665
-1489	-1.02	27.31	XX	1	SND	3.93	3.93		1352.24				6308.86	4.665
-1489	-1.02	27.31	XX	3	SND	3.93	3.93		1260.19				6308.86	5.006
-1489	-1.02	27.31	XX	3	SND	3.93	3.93		1260.19				6308.86	5.006
-1489	-1.02	27.31	XX	5	SND	3.93	3.93		1283.17				6308.86	4.917
-1489	-1.02	27.31	XX	5	SND	3.93	3.93		1283.17				6308.86	4.917
-1489	-1.02	27.31	XX	7	SND	3.93	3.93		1131.92				6308.86	5.574
-1489	-1.02	27.31	XX	7	SND	3.93	3.93		1131.92				6308.86	5.574
-1506	-0.53	32.51	YY	9	SLU	2.51	2.51		1973.23				6308.86	3.197
-1506	-0.53	32.51	YY	1	SND	2.51	2.51		2098.11				6308.86	3.007
-1506	-0.53	32.51	YY	1	SND	2.51	2.51		2098.11				6308.86	3.007
-1506	-0.53	32.51	YY	3	SND	2.51	2.51		1822.15				6308.86	3.462
-1506	-0.53	32.51	YY	3	SND	2.51	2.51		1822.15				6308.86	3.462
-1506	-0.53	32.51	YY	5	SND	2.51	2.51		1942.20				6308.86	3.248
-1506	-0.53	32.51	YY	5	SND	2.51	2.51		1942.20				6308.86	3.248
-1506	-0.53	32.51	YY	7	SND	2.51	2.51		1532.60				6308.86	4.116
-1506	-0.53	32.51	YY	7	SND	2.51	2.51		1532.60				6308.86	4.116

Stato limite d'esercizio - Verifiche tensionali

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	Mom <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
217	0.00	27.31	XX	10	SLE R	3.93	3.93	-1081.31	66.86	2615.17
217	0.00	27.31	XX	12	SLE Q	3.93	3.93	-912.95	56.45	2208.00
-1458	-0.70	16.84	YY	10	SLE R	2.51	2.51	-730.59	54.65	2681.38
-1458	-0.70	16.84	YY	12	SLE Q	2.51	2.51	-649.67	48.60	2384.42
-1448	-1.23	13.94	YY	10	SLE R	2.51	2.51	562.41	42.07	2064.15
-1448	-1.23	13.94	YY	12	SLE Q	2.51	2.51	504.89	37.77	1853.04

Stato limite d'esercizio - Verifiche a fessurazione

Nodo	X <m>	Y <m>	DV	CC	TCC	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>
217	0.00	27.31	XX	12	SLE Q	30.00	200.00	0.50	10.00	143.56	4.71	393.75	2208.00	0.64	0.16
217	0.00	27.31	XX	11	SLE F	30.00	200.00	0.50	10.00	143.56	4.71	393.75	2208.39	0.64	0.16
-1458	-0.70	16.84	YY	12	SLE Q	31.00	200.00	0.50	8.00	170.82	3.02	410.25	2384.42	0.69	0.20
-1458	-0.70	16.84	YY	11	SLE F	31.00	200.00	0.50	8.00	170.82	3.02	410.25	2384.67	0.69	0.20
-1448	-1.23	13.94	YY	12	SLE Q	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1853.04	0.54	0.16
-1448	-1.23	13.94	YY	11	SLE F	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1853.11	0.54	0.16

Armatura soletta a quota 11.00

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <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>
15.00	3.50	3.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	MRdy <daNm>	Sic.
-1695	9.72	35.21	XX	9	SLU	2.51	2.51	-714.90	-1358.08	1.900
-1695	9.72	35.21	XX	9	SLU	2.51	2.51	-714.90	-1358.08	1.900
-1699	12.99	35.21	XX	9	SLU	2.51	2.51	456.15	1358.08	2.977
-1667	12.99	32.51	YY	9	SLU	2.51	2.51	-788.50	-1358.08	1.722
-1667	12.99	32.51	YY	9	SLU	2.51	2.51	-788.50	-1358.08	1.722
-1699	12.99	35.21	YY	9	SLU	2.51	2.51	562.07	1358.08	2.416

Stato limite elastico - Verifiche a flessione/pressoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
-1695	9.72	35.21	XX	1	SND	2.51	2.51	-385.72	-1071.42	2.778
-1695	9.72	35.21	XX	1	SND	2.51	2.51	-505.57	-1071.42	2.119
-1695	9.72	35.21	XX	3	SND	2.51	2.51	-393.26	-1071.42	2.724
-1695	9.72	35.21	XX	3	SND	2.51	2.51	-498.02	-1071.42	2.151
-1695	9.72	35.21	XX	5	SND	2.51	2.51	-416.22	-1071.42	2.574
-1695	9.72	35.21	XX	5	SND	2.51	2.51	-475.06	-1071.42	2.255
-1695	9.72	35.21	XX	7	SND	2.51	2.51	-449.91	-1071.42	2.381
-1695	9.72	35.21	XX	7	SND	2.51	2.51	-441.37	-1071.42	2.427
-1726	15.50	37.71	XX	1	SND	2.51	2.51	20.61	1071.42	51.984
-1726	15.50	37.71	XX	1	SND	2.51	2.51	-174.56	-1071.42	6.138
-1726	15.50	37.71	XX	3	SND	2.51	2.51	-6.22	-1071.42	>100
-1726	15.50	37.71	XX	3	SND	2.51	2.51	-147.74	-1071.42	7.252
-1726	15.50	37.71	XX	5	SND	2.51	2.51	-7.01	-1071.42	>100
-1726	15.50	37.71	XX	5	SND	2.51	2.51	-146.94	-1071.42	7.291
-1726	15.50	37.71	XX	7	SND	2.51	2.51	-57.52	-1071.42	18.628
-1726	15.50	37.71	XX	7	SND	2.51	2.51	-96.44	-1071.42	11.110
-1699	12.99	35.21	XX	1	SND	2.51	2.51	352.71	1071.42	3.038
-1699	12.99	35.21	XX	1	SND	2.51	2.51	215.72	1071.42	4.967
-1699	12.99	35.21	XX	3	SND	2.51	2.51	341.39	1071.42	3.138
-1699	12.99	35.21	XX	3	SND	2.51	2.51	227.03	1071.42	4.719
-1699	12.99	35.21	XX	5	SND	2.51	2.51	321.92	1071.42	3.328
-1699	12.99	35.21	XX	5	SND	2.51	2.51	246.51	1071.42	4.346
-1699	12.99	35.21	XX	7	SND	2.51	2.51	284.21	1071.42	3.770
-1699	12.99	35.21	XX	7	SND	2.51	2.51	284.21	1071.42	3.770
-1667	12.99	32.51	YY	1	SND	2.51	2.51	-435.07	-1071.42	2.463
-1667	12.99	32.51	YY	1	SND	2.51	2.51	-548.58	-1071.42	1.953
-1667	12.99	32.51	YY	3	SND	2.51	2.51	-467.21	-1071.42	2.293
-1667	12.99	32.51	YY	3	SND	2.51	2.51	-516.44	-1071.42	2.075
-1667	12.99	32.51	YY	5	SND	2.51	2.51	-426.05	-1071.42	2.515
-1667	12.99	32.51	YY	5	SND	2.51	2.51	-557.60	-1071.42	1.921
-1667	12.99	32.51	YY	7	SND	2.51	2.51	-450.46	-1071.42	2.378
-1667	12.99	32.51	YY	7	SND	2.51	2.51	-533.18	-1071.42	2.009
-1724	13.90	37.71	YY	1	SND	2.51	2.51	-45.87	-1071.42	23.360
-1724	13.90	37.71	YY	1	SND	2.51	2.51	-479.79	-1071.42	2.233
-1724	13.90	37.71	YY	3	SND	2.51	2.51	-88.14	-1071.42	12.156
-1724	13.90	37.71	YY	3	SND	2.51	2.51	-437.52	-1071.42	2.449
-1724	13.90	37.71	YY	5	SND	2.51	2.51	-133.62	-1071.42	8.018
-1724	13.90	37.71	YY	5	SND	2.51	2.51	-392.03	-1071.42	2.733
-1724	13.90	37.71	YY	7	SND	2.51	2.51	-251.12	-1071.42	4.267
-1724	13.90	37.71	YY	7	SND	2.51	2.51	-274.54	-1071.42	3.903
-1699	12.99	35.21	YY	1	SND	2.51	2.51	374.42	1071.42	2.862

-1699	12.99	35.21	YY	1	SND	2.51	2.51	326.49	1071.42	3.282
-1699	12.99	35.21	YY	3	SND	2.51	2.51	366.52	1071.42	2.923
-1699	12.99	35.21	YY	3	SND	2.51	2.51	334.39	1071.42	3.204
-1699	12.99	35.21	YY	5	SND	2.51	2.51	369.63	1071.42	2.899
-1699	12.99	35.21	YY	5	SND	2.51	2.51	331.28	1071.42	3.234
-1699	12.99	35.21	YY	7	SND	2.51	2.51	357.62	1071.42	2.996
-1699	12.99	35.21	YY	7	SND	2.51	2.51	343.29	1071.42	3.121

Stato limite ultimo - Verifiche a taglio

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	AfE St. <cmq/m>	Vsdu <daN>	ctgθ	VRcd <daN>	VRsd <daN>	Vrdu <daN>	Sic.
-1695	9.72	35.21	XX	9	SLU	2.51	2.51		1640.56				6308.86	3.846
-1726	15.50	37.71	XX	1	SND	2.51	2.51		2605.76				6308.86	2.421
-1726	15.50	37.71	XX	1	SND	2.51	2.51		2605.76				6308.86	2.421
-1726	15.50	37.71	XX	3	SND	2.51	2.51		2046.34				6308.86	3.083
-1726	15.50	37.71	XX	3	SND	2.51	2.51		2046.34				6308.86	3.083
-1726	15.50	37.71	XX	5	SND	2.51	2.51		1751.66				6308.86	3.602
-1726	15.50	37.71	XX	5	SND	2.51	2.51		1751.66				6308.86	3.602
-1726	15.50	37.71	XX	7	SND	2.51	2.51		460.15				6308.86	13.710
-1726	15.50	37.71	XX	7	SND	2.51	2.51		460.15				6308.86	13.710
-1667	12.99	32.51	YY	9	SLU	2.51	2.51		1780.67				6308.86	3.543
-1724	13.90	37.71	YY	1	SND	2.51	2.51		1193.39				6308.86	5.287
-1724	13.90	37.71	YY	1	SND	2.51	2.51		1193.39				6308.86	5.287
-1724	13.90	37.71	YY	3	SND	2.51	2.51		1103.83				6308.86	5.715
-1724	13.90	37.71	YY	3	SND	2.51	2.51		1103.83				6308.86	5.715
-1724	13.90	37.71	YY	5	SND	2.51	2.51		1023.17				6308.86	6.166
-1724	13.90	37.71	YY	5	SND	2.51	2.51		1023.17				6308.86	6.166
-1724	13.90	37.71	YY	7	SND	2.51	2.51		787.71				6308.86	8.009
-1724	13.90	37.71	YY	7	SND	2.51	2.51		787.71				6308.86	8.009

Stato limite d'esercizio - Verifiche tensionali

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	Mom <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
-1695	9.72	35.21	XX	10	SLE R	2.51	2.51	-515.41	38.55	1891.63
-1695	9.72	35.21	XX	12	SLE Q	2.51	2.51	-445.64	33.33	1635.58
-1699	12.99	35.21	XX	10	SLE R	2.51	2.51	328.81	24.60	1206.81
-1699	12.99	35.21	XX	12	SLE Q	2.51	2.51	284.21	21.26	1043.10
-1667	12.99	32.51	YY	10	SLE R	2.51	2.51	-568.57	42.53	2086.76
-1667	12.99	32.51	YY	12	SLE Q	2.51	2.51	-491.82	36.79	1805.08
-1699	12.99	35.21	YY	10	SLE R	2.51	2.51	405.19	30.31	1487.11
-1699	12.99	35.21	YY	12	SLE Q	2.51	2.51	350.45	26.21	1286.22

Stato limite d'esercizio - Verifiche a fessurazione

Nodo	X <m>	Y <m>	DV	CC	TCC	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>
-1695	9.72	35.21	XX	12	SLE Q	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1635.58	0.48	0.14
-1695	9.72	35.21	XX	11	SLE F	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1635.49	0.48	0.14
-1699	12.99	35.21	XX	12	SLE Q	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1043.10	0.30	0.09
-1699	12.99	35.21	XX	11	SLE F	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1043.10	0.30	0.09
-1667	12.99	32.51	YY	12	SLE Q	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1805.08	0.53	0.15
-1667	12.99	32.51	YY	11	SLE F	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1804.84	0.53	0.15
-1699	12.99	35.21	YY	12	SLE Q	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1286.22	0.37	0.11
-1699	12.99	35.21	YY	11	SLE F	31.00	200.00	0.50	8.00	170.82	3.02	410.25	1286.24	0.37	0.11

Verifiche e armature pareti

Simbologia

Δ_{sm} = Distanza media tra le fessure
Φ_{eq} = Diametro equivalente delle barre
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
σ_c = Tensione nel calcestruzzo
σ_f = Tensione nel ferro
σ_s = Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
CC = Numero della combinazione delle condizioni di carico elementari
Cf = Copriferro
Cls = Tipo di calcestruzzo
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
K_2 = Coefficiente per distribuzione deformazioni
M'ydy = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
M'ydz = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Z
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
MRdz = Momento resistente allo stato limite ultimo intorno all'asse Z
My = Momento flettente intorno all'asse Y
Mz = Momento flettente intorno all'asse Z
N = Sforzo normale

Nu = Sforzo normale ultimo
Sez. = Sezione di verifica
Sic. = Sicurezza
Spess. = Spessore
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tp = Tipo di acciaio
Ty = Taglio in dir. Y
Tz = Taglio in dir. Z
VRcd = Taglio ultimo lato calcestruzzo
VRsd = Taglio ultimo lato armatura
Vrdu = Taglio ultimo resistente
Vsdu = Taglio agente nella direzione del momento ultimo
Wk = Ampiezza caratteristica delle fessure
Xf = Coordinata X finale
Xi = Coordinata X iniziale
Xv = Coordinata X di verifica
Zona = Zona di verifica
Zv = Coordinata Z di verifica
c = Ricoprimento dell'armatura
ctgθ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s = Distanza massima tra le barre

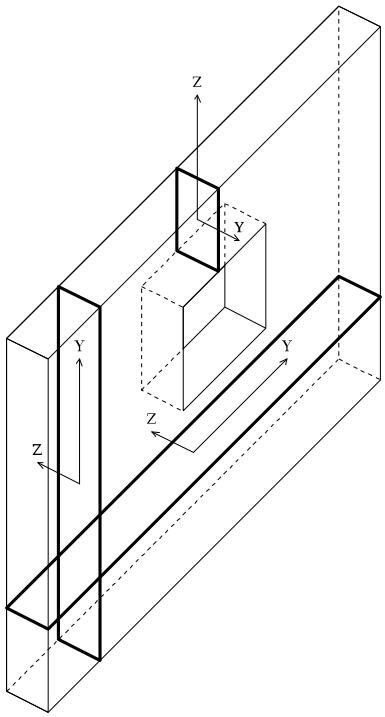

Figura numero 4: Riferimenti sezione

Parete n. 107

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLV	Diff. long.	0.00	0.00	5.78	-10210.00	-27176.10	0.00	-10210.00	-723255.00	0.00	26.614
5	SLV	Diff. tras.	0.00	0.00	5.78	-10210.00	0.00	7959.07	-10210.00	0.00	30203.00	3.795
5	SLV	Diff. long.	1.40	0.00	5.78	9354.49	-31174.70	0.00	9354.49	-672069.00	0.00	21.558
1	SLV	Diff. tras.	1.40	0.00	5.78	2481.38	0.00	1371.10	2481.38	0.00	28597.80	20.858
5	SLV	Diff. long.	2.80	0.00	5.78	39833.40	-81430.60	0.00	39833.40	-597717.00	0.00	7.340
5	SLV	Diff. tras.	2.80	0.00	5.78	39833.40	0.00	-1983.90	39833.40	0.00	-25060.90	12.632

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	5.78	-27997.30	0.00	4643.06	15.00	330.25
12	SLE Q	Diff. tras.	0.00	0.00	5.78	-26622.10	0.00	4417.57	14.27	314.41
10	SLE R	Diff. tras.	1.40	0.00	5.78	-25203.50	0.00	1054.64	3.24	39.75
12	SLE Q	Diff. tras.	1.40	0.00	5.78	-24138.50	0.00	996.06	3.09	37.87
10	SLE R	Diff. long.	2.80	0.00	5.78	-25807.30	-12685.20	0.00	2.52	37.56
12	SLE Q	Diff. long.	2.80	0.00	5.78	-25114.80	-12678.70	0.00	2.47	36.89

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff. tras.	0.00	0.00	5.78	-26622.10	0.00	4417.57	40.00	196.14	0.50	12.00	194.05	33.93	3224.78	314.41	0.09	0.03
11	SLE F	Diff. tras.	0.00	0.00	5.78	-26849.90	0.00	4456.76	40.00	196.14	0.50	12.00	194.06	33.93	3225.05	317.31	0.09	0.03

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5	Diff. long.	0.00	0.00	5.78	SLV	-42727.70	0.00	42727.70	2.47	391932.00	391932.00	391932.00	9.173
5	Diff. tras.	0.00	0.00	5.78	SLV	0.00	6871.22	6871.22				65458.40	9.526
5	Diff. long.	1.40	0.00	5.78	SLV	44447.20	0.00	44447.20	2.47	391009.00	391009.00	391009.00	8.797
5	Diff. tras.	1.40	0.00	5.78	SLV	0.00	-3252.66	3252.66				64208.70	19.740
1	Diff. long.	2.80	0.00	5.78	SLV	-37581.30	0.00	37581.30	2.47	391009.00	391009.00	391009.00	10.404
5	Diff. tras.	2.80	0.00	5.78	SLV	0.00	2407.08	2407.08				64208.70	26.675

Parete n. 112

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	20.00	4.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	MRdy <daNm>	Sic.
9	SLU	Diff.	0.00	0.00	9.72	-99028.70	19683.70	-99028.70	35356.90	1.796
9	SLU	Diff.	1.40	0.00	9.72	-90998.50	6119.01	-90998.50	34821.90	5.691
9	SLU	Diff.	2.80	0.00	9.72	-73273.50	-246.05	-3690340.00	-33639.00	50.364

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	M'ydy <daNm>	Sic.
5	SND	Diff.	0.00	0.00	9.72	-37218.20	20988.10	-37218.20	25329.20	1.207
1	SND	Diff.	1.40	0.00	9.72	-36915.40	5972.40	-36915.40	25306.00	4.237
5	SND	Diff.	2.80	0.00	9.72	-24977.10	-1319.07	-24977.10	-24383.90	18.486

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff.	0.00	0.00	9.72	-71142.10	14224.60	50.45	1542.14
12	SLE Q	Diff.	0.00	0.00	9.72	-65381.70	13281.30	47.18	1453.20
10	SLE R	Diff.	1.40	0.00	9.72	-64670.90	4423.10	11.84	108.28
12	SLE Q	Diff.	1.40	0.00	9.72	-58932.80	4122.01	11.12	100.00
10	SLE R	Diff.	2.80	0.00	9.72	-50930.10	-178.47	2.73	39.28
12	SLE Q	Diff.	2.80	0.00	9.72	-45656.30	-177.22	2.47	35.42

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff.	0.00	0.00	9.72	-65381.70	13281.30	38.00	196.61	0.50	10.00	198.59	39.27	4814.10	1453.20	0.42	0.14
11	SLE F	Diff.	0.00	0.00	9.72	-66573.30	13463.20	38.00	196.61	0.50	10.00	198.53	39.27	4811.72	1469.31	0.43	0.14

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5	Diff.	0.00	0.00	9.72	SND	0.00	15904.30	15904.30			88099.80	5.539
5	Diff.	1.40	0.00	9.72	SND	0.00	-8015.84	8015.84			87193.90	10.878
5	Diff.	2.80	0.00	9.72	SND	0.00	4112.79	4112.79			86658.40	21.070

Parete n. 113

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Verifiche su sezioni orizzontali

Stato limite ultimo - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLV	Diff. long.	0.00	0.00	5.78	-56606.90	-54716.30	0.00	-56606.90	-829903.00	0.00	15.167
1	SLV	Diff. tras.	0.00	0.00	5.78	-58268.40	0.00	10351.20	-58268.40	0.00	34393.00	3.323
1	SLV	Diff. long.	1.40	0.00	5.78	-54111.00	-76926.30	0.00	-54111.00	-824288.00	0.00	10.715
5	SLV	Diff. tras.	1.40	0.00	5.78	-131509.00	0.00	-145.61	-2514640.00	0.00	-40743.30	19.122
1	SLV	Diff. long.	2.80	0.00	5.78	-31364.50	-100566.00	0.00	-31364.50	-772632.00	0.00	7.683
5	SLV	Diff. tras.	2.80	0.00	5.78	9919.27	0.00	-5308.19	9919.27	0.00	-27898.80	5.256

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	5.78	-95511.50	0.00	6931.00	18.59	202.77
12	SLE Q	Diff. tras.	0.00	0.00	5.78	-89895.30	0.00	6934.93	18.71	199.31
10	SLE R	Diff. long.	1.40	0.00	5.78	-88350.20	-33358.40	0.00	7.95	118.65
12	SLE Q	Diff. long.	1.40	0.00	5.78	-82155.10	-29530.40	0.00	7.29	108.86
10	SLE R	Diff. long.	2.80	0.00	5.78	-79204.30	-13284.80	0.00	6.01	89.94
12	SLE Q	Diff. long.	2.80	0.00	5.78	-72280.90	-9752.88	0.00	5.33	79.73

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	5.78	SLV	-58436.30	0.00	58436.30	2.50	396249.00	396249.00	396249.00	6.781
1	Diff. tras.	0.00	0.00	5.78	SLV	0.00	10952.60	10952.60				71340.80	6.514
1	Diff. long.	1.40	0.00	5.78	SLV	64327.80	0.00	64327.80	2.50	395878.00	395878.00	395878.00	6.154
5	Diff. tras.	1.40	0.00	5.78	SLV	0.00	-1718.01	1718.01				68223.60	39.711
1	Diff. long.	2.80	0.00	5.78	SLV	-68235.20	0.00	68235.20	2.48	393838.00	393838.00	393838.00	5.772
1	Diff. tras.	2.80	0.00	5.78	SLV	0.00	-9325.29	9325.29				68047.70	7.297

Parete n. 114

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLV	Diff. long.	0.00	0.00	1.70	-3499.91	14449.90	0.00	-3499.91	70524.60	0.00	4.881
1	SLV	Diff. tras.	0.00	0.00	1.70	2043.00	0.00	-1959.98	2043.00	0.00	-9236.29	4.712
5	SLV	Diff. long.	0.00	3.70	5.20	-4809.58	-13825.90	0.00	-4809.58	-56949.70	0.00	4.119
1	SLV	Diff. tras.	0.00	3.70	5.20	-4009.05	0.00	-2498.50	-4009.05	0.00	-8879.42	3.554
1	SLV	Diff. long.	1.15	0.00	1.70	11519.70	7885.82	0.00	11519.70	59677.60	0.00	7.568
1	SLV	Diff. tras.	1.15	0.00	1.70	-35012.50	0.00	-252.03	-739600.00	0.00	-12539.70	21.124
1	SLV	Diff. long.	1.15	3.70	5.20	3618.11	-4487.80	0.00	3618.11	-51589.20	0.00	11.495
1	SLV	Diff. tras.	1.15	3.70	5.20	-27842.80	0.00	-193.48	-652588.00	0.00	-10933.40	23.438
1	SLV	Diff. long.	2.30	0.00	1.70	20101.70	-21415.80	0.00	20101.70	-53405.90	0.00	2.494
1	SLV	Diff. tras.	2.30	0.00	1.70	-44132.90	0.00	-315.60	-739600.00	0.00	-13319.00	16.759
5	SLV	Diff. long.	2.30	3.70	5.20	316.08	-10925.30	0.00	316.08	-53642.40	0.00	4.910
1	SLV	Diff. tras.	2.30	3.70	5.20	12300.70	0.00	459.51	12300.70	0.00	7318.39	15.927
1	SLV	Diff. long.	2.30	0.00	5.20	45985.00	-43160.50	0.00	45985.00	-499727.00	0.00	11.578
1	SLV	Diff. tras.	2.30	0.00	5.20	-94988.70	0.00	-180.07	-2262300.00	0.00	-36138.10	23.817
1	SLV	Diff. long.	2.80	0.00	5.20	47610.00	-38994.20	0.00	47610.00	-496135.00	0.00	12.723
1	SLV	Diff. tras.	2.80	0.00	5.20	47610.00	0.00	1136.08	47610.00	0.00	23097.80	20.331

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	1.70	-10445.60	6710.95	0.00	9.40	133.65
12	SLE Q	Diff. tras.	0.00	0.00	1.70	-9690.58	0.00	-912.82	8.55	83.33
10	SLE R	Diff. tras.	0.00	3.70	5.20	-12605.90	0.00	-1536.06	17.25	243.26
12	SLE Q	Diff. tras.	0.00	3.70	5.20	-12102.50	0.00	-1456.33	16.31	225.38
10	SLE R	Diff. tras.	1.15	0.00	1.70	-12237.80	0.00	-175.86	3.57	48.59
10	SLE R	Diff. long.	1.15	0.00	1.70	-12237.80	808.09	0.00	3.28	48.76
12	SLE Q	Diff. tras.	1.15	0.00	1.70	-11746.40	0.00	-169.20	3.43	46.66
10	SLE R	Diff. long.	1.15	3.70	5.20	-12759.10	-2037.34	0.00	5.14	75.27
12	SLE Q	Diff. long.	1.15	3.70	5.20	-12112.40	-1931.22	0.00	4.88	71.42
10	SLE R	Diff. long.	2.30	0.00	1.70	-12259.20	-1396.83	0.00	3.74	55.21
12	SLE Q	Diff. long.	2.30	0.00	1.70	-12015.60	-857.53	0.00	3.27	48.57
10	SLE R	Diff. long.	2.30	3.70	5.20	-12094.00	-2326.07	0.00	5.26	76.79
12	SLE Q	Diff. long.	2.30	3.70	5.20	-11360.10	-2004.01	0.00	4.76	69.64
10	SLE R	Diff. tras.	2.30	0.00	5.20	-25224.30	0.00	240.99	2.21	30.94
12	SLE Q	Diff. tras.	2.30	0.00	5.20	-24501.80	0.00	218.07	2.12	29.79
10	SLE R	Diff. tras.	2.80	0.00	5.20	-23599.30	0.00	300.29	2.20	30.14
12	SLE Q	Diff. tras.	2.80	0.00	5.20	-22876.80	0.00	280.51	2.11	29.05

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>

12	SLE Q	Diff. long.	0.00	0.00	1.70	-9690.58	5765.42	0.00	40.00	158.00	0.50	12.00	232.52	2.26	287.50	88.22	0.03	0.01
11	SLE F	Diff. long.	0.00	0.00	1.70	-9855.07	5990.02	0.00	40.00	158.00	0.50	12.00	232.52	2.26	287.50	96.80	0.03	0.01
12	SLE Q	Diff. tras.	0.00	3.70	5.20	-12102.50	0.00	-1456.33	40.00	176.00	0.50	12.00	164.78	10.18	719.13	225.38	0.07	0.02
11	SLE F	Diff. tras.	0.00	3.70	5.20	-12181.70	0.00	-1470.78	40.00	176.00	0.50	12.00	164.94	10.18	720.53	229.03	0.07	0.02

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5	Diff. long.	0.00	0.00	1.70	SLV	20355.10	0.00	20355.10	2.47	113099.00	113099.00	113099.00	5.556
1	Diff. tras.	0.00	0.00	1.70	SLV	0.00	-1934.41	1934.41				18884.90	9.763
5	Diff. long.	0.00	3.70	5.20	SLV	-8290.64	0.00	8290.64	2.48	99574.70	99574.70	99574.70	12.011
1	Diff. tras.	0.00	3.70	5.20	SLV	0.00	-3115.11	3115.11				17153.90	5.507
5	Diff. long.	1.15	0.00	1.70	SLV	-18712.00	0.00	18712.00	2.47	112788.00	112788.00	112788.00	6.028
1	Diff. tras.	1.15	0.00	1.70	SLV	0.00	1071.78	1071.78				18884.90	17.620
5	Diff. long.	1.15	3.70	5.20	SLV	9294.81	0.00	9294.81	2.47	99405.90	99405.90	99405.90	10.695
1	Diff. tras.	1.15	3.70	5.20	SLV	0.00	882.42	882.42				16663.20	18.884
5	Diff. long.	2.30	0.00	1.70	SLV	19482.00	0.00	19482.00	2.47	112788.00	112788.00	112788.00	5.789
1	Diff. tras.	2.30	0.00	1.70	SLV	0.00	-810.65	810.65				18884.90	23.296
5	Diff. long.	2.30	3.70	5.20	SLV	-10010.90	0.00	10010.90	2.47	99150.10	99150.10	99150.10	9.904
1	Diff. tras.	2.30	3.70	5.20	SLV	0.00	-259.47	259.47				16663.20	64.220
5	Diff. long.	2.30	0.00	5.20	SLV	-22066.00	0.00	22066.00	2.47	351458.00	351458.00	351458.00	15.928
1	Diff. tras.	2.30	0.00	5.20	SLV	0.00	-1706.10	1706.10				57765.60	33.858
5	Diff. long.	2.80	0.00	5.20	SLV	-22066.00	0.00	22066.00	2.47	351458.00	351458.00	351458.00	15.928
1	Diff. tras.	2.80	0.00	5.20	SLV	0.00	-1706.10	1706.10				57765.60	33.858

Parete n. 115

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	20.00	4.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	MRdy <daNm>	Sic.
9	SLU	Diff.	0.00	0.00	32.72	-358676.00	79091.30	-358676.00	119362.00	1.509
9	SLU	Diff.	1.40	0.00	32.72	-300240.00	40357.20	-300240.00	115460.00	2.861
9	SLU	Diff.	2.80	0.00	32.72	-138036.00	-3844.63	-138036.00	-103148.00	26.829

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	M'ydy <daNm>	Sic.
1	SND	Diff.	0.00	0.00	32.72	-149830.00	65936.10	-149830.00	85791.00	1.301
1	SND	Diff.	1.40	0.00	32.72	-135061.00	28447.60	-135061.00	84649.10	2.976
1	SND	Diff.	2.80	0.00	32.72	-73833.50	-2837.98	-73833.50	-79913.80	28.159

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff.	0.00	0.00	32.72	-255786.00	56861.40	60.98	1974.93
12	SLE Q	Diff.	0.00	0.00	32.72	-231529.00	53288.40	57.32	1882.97
10	SLE R	Diff.	1.40	0.00	32.72	-212939.00	28846.60	28.86	689.39
12	SLE Q	Diff.	1.40	0.00	32.72	-191479.00	26161.40	26.22	631.06
10	SLE R	Diff.	2.80	0.00	32.72	-96423.60	-2701.39	2.56	30.87
12	SLE Q	Diff.	2.80	0.00	32.72	-86727.60	-2237.95	2.22	27.06

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff.	0.00	0.00	32.72	-231529.00	53288.40	38.00	198.99	0.50	10.00	202.91	129.59	16445.80	1882.97	0.55	0.19
11	SLE F	Diff.	0.00	0.00	32.72	-236487.00	53904.80	38.00	198.99	0.50	10.00	202.79	129.59	16431.40	1895.79	0.55	0.19
12	SLE Q	Diff.	1.40	0.00	32.72	-191479.00	26161.40	38.00	198.99	0.50	10.00	193.59	129.59	15238.20	631.06	0.18	0.06
11	SLE F	Diff.	1.40	0.00	32.72	-195829.00	26733.90	38.00	198.99	0.50	10.00	193.56	129.59	15235.30	644.30	0.19	0.06

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff.	0.00	0.00	32.72	SND	0.00	36767.90	36767.90			299461.00	8.145
1	Diff.	1.40	0.00	32.72	SND	0.00	-25668.40	25668.40			297722.00	11.599
9	Diff.	2.80	0.00	32.72	SLU	0.00	50771.00	50771.00			298071.00	5.871

Parete n. 116

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	20.00	4.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv	Xi	Xf	N	My	Nu	MRdy	Sic.

			<m>	<m>	<m>	<daN>	<daNm>	<daN>	<daNm>	
9	SLU	Diff.	0.00	0.00	5.25	-56443.50	10546.40	-56443.50	19291.90	1.829
9	SLU	Diff.	1.40	0.00	5.25	-56228.10	2605.84	-56228.10	19277.60	7.398
9	SLU	Diff.	2.80	0.00	5.25	-43299.30	-148.54	-1993200.00	-18415.30	46.033

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	M'ydy <daNm>	Sic.
5	SND	Diff.	0.00	0.00	5.25	-26154.20	8181.19	-26154.20	14145.80	1.729
5	SND	Diff.	1.40	0.00	5.25	-28740.10	1782.20	-28740.10	14345.70	8.049
1	SND	Diff.	2.80	0.00	5.25	-24768.80	-507.08	-24768.80	-14039.10	27.686

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff.	0.00	0.00	5.25	-39938.90	7479.47	48.76	1442.00
12	SLE Q	Diff.	0.00	0.00	5.25	-35822.80	6792.39	44.35	1320.02
10	SLE R	Diff.	1.40	0.00	5.25	-39541.60	1850.41	8.87	97.41
12	SLE Q	Diff.	1.40	0.00	5.25	-35352.70	1684.83	8.05	87.96
10	SLE R	Diff.	2.80	0.00	5.25	-30010.40	-102.66	2.97	42.79
12	SLE Q	Diff.	2.80	0.00	5.25	-26651.70	-99.26	2.66	38.19

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff.	0.00	0.00	5.25	-35822.80	6792.39	38.00	198.62	0.50	10.00	197.64	21.21	2579.38	1320.02	0.38	0.13
11	SLE F	Diff.	0.00	0.00	5.25	-36716.10	6938.51	38.00	198.62	0.50	10.00	197.59	21.21	2578.31	1345.54	0.39	0.13

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9	Diff.	0.00	0.00	5.25	SLU	0.00	7673.68	7673.68			51864.20	6.759
9	Diff.	1.40	0.00	5.25	SLU	0.00	-3248.17	3248.17			51838.90	15.959
1	Diff.	2.80	0.00	5.25	SND	0.00	1664.95	1664.95			48134.50	28.910

Parete n. 117

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	20.00	4.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	MRdy <daNm>	Sic.
9	SLU	Diff.	0.00	0.00	22.64	-195992.00	43931.70	-195992.00	79035.10	1.799
9	SLU	Diff.	1.40	0.00	22.64	-167036.00	23429.40	-167036.00	76964.20	3.285
9	SLU	Diff.	2.80	0.00	22.64	-65630.70	-1769.24	-65630.70	-68910.90	38.950

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	M'ydy <daNm>	Sic.
1	SND	Diff.	0.00	0.00	22.64	-91288.90	35939.40	-91288.90	58334.40	1.623
1	SND	Diff.	1.40	0.00	22.64	-79582.10	21967.00	-79582.10	57428.80	2.614
1	SND	Diff.	2.80	0.00	22.64	-33877.10	-2816.90	-33877.10	-53892.90	19.132

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff.	0.00	0.00	22.64	-140533.00	31585.80	49.03	1596.39
12	SLE Q	Diff.	0.00	0.00	22.64	-126621.00	29126.40	45.30	1488.98
10	SLE R	Diff.	1.40	0.00	22.64	-118961.00	16685.10	24.31	598.75
12	SLE Q	Diff.	1.40	0.00	22.64	-106306.00	14945.80	21.79	537.66
10	SLE R	Diff.	2.80	0.00	22.64	-46113.40	-1235.41	1.74	21.04
12	SLE Q	Diff.	2.80	0.00	22.64	-40641.00	-1019.95	1.49	18.17

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff.	0.00	0.00	22.64	-126621.00	29126.40	38.00	199.59	0.50	10.00	203.11	89.54	11380.60	1488.98	0.43	0.15
11	SLE F	Diff.	0.00	0.00	22.64	-129719.00	29633.30	38.00	199.59	0.50	10.00	203.03	89.54	11373.50	1509.81	0.44	0.15
12	SLE Q	Diff.	1.40	0.00	22.64	-106306.00	14945.80	38.00	199.59	0.50	10.00	194.55	89.54	10614.10	537.66	0.16	0.05
11	SLE F	Diff.	1.40	0.00	22.64	-109125.00	15355.40	38.00	199.59	0.50	10.00	194.57	89.54	10616.10	552.89	0.16	0.05

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff.	0.00	0.00	22.64	SND	0.00	22246.70	22246.70			205747.00	9.248
1	Diff.	1.40	0.00	22.64	SND	0.00	-14972.30	14972.30			204369.00	13.650

1	Diff.	2.80	0.00	22.64	SND	0.00	41277.10	41277.10			198987.00	4.821

Parete n. 118

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	20.00	4.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	MRdy <daNm>	Sic.
9	SLU	Diff.	0.00	0.00	10.25	-68315.10	9251.27	-68315.10	34455.90	3.724
9	SLU	Diff.	1.40	0.00	10.25	-57783.30	4432.76	-57783.30	33620.50	7.585
9	SLU	Diff.	2.80	0.00	10.25	-45211.90	779.26	-45211.90	32621.80	41.863

Stato limite elastico - Verifiche a flessione/pressoflessione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	Nu <daN>	M'ydy <daNm>	Sic.
1	SND	Diff.	0.00	0.00	10.25	-13302.60	20753.70	-13302.60	24403.20	1.176
1	SND	Diff.	1.40	0.00	10.25	-16178.70	9552.73	-16178.70	24625.90	2.578
1	SND	Diff.	2.80	0.00	10.25	-23640.50	3898.97	-23640.50	25202.90	6.464

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff.	0.00	0.00	10.25	-49144.70	6765.77	21.64	522.67
12	SLE Q	Diff.	0.00	0.00	10.25	-43325.70	5880.19	18.75	447.32
10	SLE R	Diff.	1.40	0.00	10.25	-41176.10	3245.14	8.70	87.69
12	SLE Q	Diff.	1.40	0.00	10.25	-35315.30	2855.42	7.73	83.36
10	SLE R	Diff.	2.80	0.00	10.25	-31664.90	566.89	2.24	28.57
12	SLE Q	Diff.	2.80	0.00	10.25	-25649.70	597.42	2.01	24.77

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff.	0.00	0.00	10.25	-43325.70	5880.19	38.00	199.29	0.50	10.00	192.61	40.84	4762.37	447.32	0.13	0.04
11	SLE F	Diff.	0.00	0.00	10.25	-44546.80	6058.10	38.00	199.29	0.50	10.00	192.66	40.84	4764.64	461.87	0.13	0.04

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff.	0.00	0.00	10.25	SND	0.00	8585.65	8585.65			89849.30	10.465
1	Diff.	1.40	0.00	10.25	SND	0.00	-8105.20	8105.20			90187.90	11.127
1	Diff.	2.80	0.00	10.25	SND	0.00	7711.00	7711.00			91066.50	11.810

Parete n. 119

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLV	Diff. long.	0.00	0.00	5.20	-71946.60	101168.00	0.00	-71946.60	714400.00	0.00	7.061
1	SLV	Diff. tras.	0.00	0.00	5.20	-65389.70	0.00	9116.59	-65389.70	0.00	32080.50	3.519
5	SLV	Diff. long.	1.40	0.00	5.20	-57004.00	96785.20	0.00	-57004.00	684658.00	0.00	7.074
9	SLU	Diff. tras.	1.40	0.00	5.20	-99510.90	0.00	610.52	-2501280.00	0.00	35038.80	25.136
5	SLV	Diff. long.	2.80	0.00	5.20	-34970.00	193241.00	0.00	-34970.00	639572.00	0.00	3.310
1	SLV	Diff. tras.	2.80	0.00	5.20	-17012.30	0.00	3727.69	-17012.30	0.00	27857.90	7.473

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	5.20	-83092.90	0.00	6377.16	19.11	204.01
12	SLE Q	Diff. tras.	0.00	0.00	5.20	-77523.50	0.00	6119.41	18.41	194.23
10	SLE R	Diff. long.	1.40	0.00	5.20	-72822.00	38470.10	0.00	8.41	125.37
12	SLE Q	Diff. long.	1.40	0.00	5.20	-67558.60	35024.00	0.00	7.75	115.50
10	SLE R	Diff. tras.	2.80	0.00	5.20	-60446.10	0.00	1797.66	7.40	94.17
10	SLE R	Diff. long.	2.80	0.00	5.20	-60446.10	27651.80	0.00	6.63	98.85
12	SLE Q	Diff. tras.	2.80	0.00	5.20	-55425.60	0.00	1297.23	6.19	80.68

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5	Diff. long.	0.00	0.00	5.20	SLV	175061.00	0.00	175061.00	2.50	356395.00	359007.00	356395.00	2.036

1	Diff. tras.	0.00	0.00	5.20	SLV	0.00	9752.59	9752.59				65769.30	6.744
5	Diff. long.	1.40	0.00	5.20	SLV	-185336.00	0.00	185336.00	2.50	356395.00	356709.00	356395.00	1.923
1	Diff. tras.	1.40	0.00	5.20	SLV	0.00	-992.74	992.74				63430.00	63.894
5	Diff. long.	2.80	0.00	5.20	SLV	182772.00	0.00	182772.00	2.49	354607.00	354607.00	354607.00	1.940
1	Diff. tras.	2.80	0.00	5.20	SLV	0.00	-8401.14	8401.14				59847.90	7.124

Parete n. 207

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
1	SLV	Diff. long.	0.00	0.00	4.18	37524.80	103055.00	0.00	37524.80	302099.00	0.00	2.931
5	SLV	Diff. tras.	0.00	0.00	4.18	39572.10	0.00	-2220.10	39572.10	0.00	-17348.40	7.814
1	SLV	Diff. long.	1.15	0.00	4.18	24126.70	53955.00	0.00	24126.70	326172.00	0.00	6.045
5	SLV	Diff. tras.	1.15	0.00	4.18	-72933.80	0.00	-701.28	-1818540.00	0.00	-27777.30	24.934
5	SLV	Diff. long.	2.30	0.00	4.18	17382.60	-31076.20	0.00	17382.60	-338137.00	0.00	10.881
5	SLV	Diff. tras.	2.30	0.00	4.18	-58392.80	0.00	-410.21	-1818540.00	0.00	-26518.30	31.143
5	SLV	Diff. long.	3.45	0.00	4.18	6842.76	-23032.00	0.00	6842.76	-356674.00	0.00	15.486
5	SLV	Diff. tras.	3.45	0.00	4.18	-45422.50	0.00	-152.18	-1818540.00	0.00	-25389.90	40.036
1	SLV	Diff. long.	4.60	0.00	4.18	-2277.03	39274.90	0.00	-2277.03	374663.00	0.00	9.539
5	SLV	Diff. tras.	4.60	0.00	4.18	-2179.32	0.00	-680.14	-2179.32	0.00	-21623.20	31.792

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	4.18	-25992.90	0.00	-272.74	2.90	40.29
12	SLE Q	Diff. tras.	0.00	0.00	4.18	-25440.00	0.00	-277.29	2.86	39.64
10	SLE R	Diff. tras.	1.15	0.00	4.18	-22868.90	0.00	-133.06	2.32	33.31
12	SLE Q	Diff. tras.	1.15	0.00	4.18	-22226.30	0.00	-131.27	2.26	32.41
10	SLE R	Diff. tras.	2.30	0.00	4.18	-21216.70	0.00	-121.45	2.15	30.86
12	SLE Q	Diff. tras.	2.30	0.00	4.18	-20505.10	0.00	-117.37	2.08	29.82
10	SLE R	Diff. long.	3.45	0.00	4.18	-20115.20	-1560.05	0.00	2.00	29.87
12	SLE Q	Diff. long.	3.45	0.00	4.18	-19289.90	-1517.03	0.00	1.92	28.69
10	SLE R	Diff. tras.	4.60	0.00	4.18	-16392.70	0.00	-91.41	1.66	23.79
12	SLE Q	Diff. tras.	4.60	0.00	4.18	-15584.70	0.00	-86.59	1.58	22.62

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	4.18	SLV	-53430.00	0.00	53430.00	2.47	281903.00	281903.00	281903.00	5.276
5	Diff. tras.	0.00	0.00	4.18	SLV	0.00	-1855.88	1855.88				46434.70	25.020
1	Diff. long.	1.15	0.00	4.18	SLV	56450.40	0.00	56450.40	2.47	281903.00	281903.00	281903.00	4.994
5	Diff. tras.	1.15	0.00	4.18	SLV	0.00	598.84	598.84				46434.70	77.541
1	Diff. long.	2.30	0.00	4.18	SLV	55444.80	0.00	55444.80	2.47	281903.00	281903.00	281903.00	5.084
5	Diff. tras.	2.30	0.00	4.18	SLV	0.00	694.20	694.20				46434.70	66.890
1	Diff. long.	3.45	0.00	4.18	SLV	55690.40	0.00	55690.40	2.47	281915.00	281915.00	281915.00	5.062
5	Diff. tras.	3.45	0.00	4.18	SLV	0.00	621.49	621.49				46434.70	74.715
1	Diff. long.	4.60	0.00	4.18	SLV	-53101.00	0.00	53101.00	2.47	282108.00	282108.00	282108.00	5.313
5	Diff. tras.	4.60	0.00	4.18	SLV	0.00	879.54	879.54				46701.40	53.098

Parete n. 208

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
1	SLV	Diff. long.	0.00	0.00	5.78	-15166.50	-113732.00	0.00	-15166.50	-734884.00	0.00	6.462
5	SLV	Diff. tras.	0.00	0.00	5.78	26914.60	0.00	-7215.14	26914.60	0.00	-26291.60	3.644
5	SLV	Diff. long.	1.15	0.00	5.78	15469.90	60437.40	0.00	15469.90	657277.00	0.00	10.875
5	SLV	Diff. tras.	1.15	0.00	5.78	-112220.00	0.00	-431.19	-2514640.00	0.00	-39077.30	22.408
1	SLV	Diff. long.	2.30	0.00	5.78	-20954.40	-53579.10	0.00	-20954.40	-748415.00	0.00	13.968
5	SLV	Diff. tras.	2.30	0.00	5.78	-94804.50	0.00	-399.59	-2514640.00	0.00	-37571.50	26.524
1	SLV	Diff. long.	3.45	0.00	5.78	-21509.00	-38877.60	0.00	-21509.00	-749707.00	0.00	19.284
5	SLV	Diff. tras.	3.45	0.00	5.78	-80187.10	0.00	-81.42	-2514640.00	0.00	-36303.00	31.360
1	SLV	Diff. long.	4.60	0.00	5.78	-18572.80	-26398.00	0.00	-18572.80	-742850.00	0.00	28.140
1	SLV	Diff. tras.	4.60	0.00	5.78	-18572.80	0.00	3854.29	-18572.80	0.00	30927.00	8.024

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	5.78	-58036.00	0.00	-1323.99	5.78	75.50

12	SLE Q	Diff. tras.	0.00	0.00	5.78	-54263.50	0.00	-1311.67	5.52	71.67
10	SLE R	Diff. tras.	1.15	0.00	5.78	-52011.30	0.00	-28.20	3.41	50.85
12	SLE Q	Diff. tras.	1.15	0.00	5.78	-48374.90	0.00	-49.36	3.20	47.63
10	SLE R	Diff. long.	2.30	0.00	5.78	-48890.00	-3195.79	0.00	3.37	50.57
12	SLE Q	Diff. long.	2.30	0.00	5.78	-45163.40	-1921.30	0.00	3.05	45.70
10	SLE R	Diff. tras.	3.45	0.00	5.78	-46579.60	0.00	339.06	3.53	50.09
12	SLE Q	Diff. tras.	3.45	0.00	5.78	-42728.20	0.00	310.76	3.24	45.95
10	SLE R	Diff. tras.	4.60	0.00	5.78	-38977.70	0.00	1450.93	4.74	58.87
12	SLE Q	Diff. tras.	4.60	0.00	5.78	-35396.60	0.00	1313.24	4.30	53.39

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	5.78	SLV	-105958.00	0.00	105958.00	2.47	392379.00	392379.00	392379.00	3.703
5	Diff. tras.	0.00	0.00	5.78	SLV	0.00	-8085.29	8085.29				64208.70	7.941
1	Diff. long.	1.15	0.00	5.78	SLV	-106452.00	0.00	106452.00	2.48	392836.00	392836.00	392836.00	3.690
1	Diff. tras.	1.15	0.00	5.78	SLV	0.00	642.84	642.84				66684.70	>100
1	Diff. long.	2.30	0.00	5.78	SLV	-104958.00	0.00	104958.00	2.48	392901.00	392901.00	392901.00	3.743
5	Diff. tras.	2.30	0.00	5.78	SLV	0.00	1136.16	1136.16				64208.70	56.514
1	Diff. long.	3.45	0.00	5.78	SLV	-105287.00	0.00	105287.00	2.48	392951.00	392951.00	392951.00	3.732
5	Diff. tras.	3.45	0.00	5.78	SLV	0.00	1986.66	1986.66				64853.70	32.645
1	Diff. long.	4.60	0.00	5.78	SLV	-105028.00	0.00	105028.00	2.48	392687.00	392687.00	392687.00	3.739
1	Diff. tras.	4.60	0.00	5.78	SLV	0.00	-6686.52	6686.52				66482.00	9.943

Parete n. 209

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
1	SLV	Diff. long.	0.00	0.00	1.70	25520.40	-36866.50	0.00	25520.40	-98267.50	0.00	2.666
1	SLV	Diff. tras.	0.00	0.00	1.70	-50634.90	0.00	-410.44	-739600.00	0.00	-19597.30	14.607
1	SLV	Diff. long.	0.00	3.70	5.20	28487.00	24715.30	0.00	28487.00	73780.30	0.00	2.985
1	SLV	Diff. tras.	0.00	3.70	5.20	-51848.70	0.00	-734.21	-652588.00	0.00	-17956.50	12.586
5	SLV	Diff. long.	1.40	0.00	1.70	3464.85	-7046.49	0.00	3464.85	-111668.00	0.00	15.847
1	SLV	Diff. tras.	1.40	0.00	1.70	-28666.70	0.00	-103.11	-739600.00	0.00	-17801.00	25.800
1	SLV	Diff. long.	1.40	3.70	5.20	-50530.40	1785.98	0.00	-652588.00	112497.00	0.00	12.915
1	SLV	Diff. tras.	1.40	3.70	5.20	-50530.40	0.00	-291.14	-652588.00	0.00	-17849.40	12.915
1	SLV	Diff. long.	2.80	0.00	1.70	11694.20	-35462.20	0.00	11694.20	-106871.00	0.00	3.014
1	SLV	Diff. tras.	2.80	0.00	1.70	-30198.90	0.00	-188.41	-739600.00	0.00	-17927.10	24.491
1	SLV	Diff. long.	2.80	3.70	5.20	31112.00	-28279.00	0.00	31112.00	-72297.50	0.00	2.557
1	SLV	Diff. tras.	2.80	3.70	5.20	-49223.70	0.00	-151.18	-652588.00	0.00	-17743.80	13.258
1	SLV	Diff. long.	2.80	0.00	5.20	-2309.67	-79473.00	0.00	-2309.67	-1050700.00	0.00	13.221
1	SLV	Diff. tras.	2.80	0.00	5.20	-33850.40	0.00	-26.56	-2262300.00	0.00	-49231.30	66.832
1	SLV	Diff. long.	3.70	0.00	5.20	-4416.73	-38848.60	0.00	-4416.73	-1054430.00	0.00	27.142
5	SLV	Diff. tras.	3.70	0.00	5.20	-2839.29	0.00	-602.06	-2839.29	0.00	-46646.60	77.479
1	SLV	Diff. long.	4.60	0.00	5.20	1183.19	20007.00	0.00	1183.19	1045880.00	0.00	52.276
1	SLV	Diff. tras.	4.60	0.00	5.20	1183.19	0.00	685.34	1183.19	0.00	46310.10	67.573

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	1.70	-12542.40	0.00	244.21	3.76	49.86
10	SLE R	Diff. long.	0.00	0.00	1.70	-12542.40	-1100.50	0.00	3.38	50.04
12	SLE Q	Diff. tras.	0.00	0.00	1.70	-12557.30	0.00	226.29	3.67	49.09
10	SLE R	Diff. tras.	0.00	3.70	5.20	-12327.70	0.00	70.31	3.26	46.71
12	SLE Q	Diff. tras.	0.00	3.70	5.20	-11680.80	0.00	62.47	3.06	44.04
10	SLE R	Diff. tras.	1.40	0.00	1.70	-10422.40	0.00	87.37	2.57	36.15
10	SLE R	Diff. long.	1.40	0.00	1.70	-10422.40	-396.77	0.00	2.43	36.25
12	SLE Q	Diff. tras.	1.40	0.00	1.70	-10564.40	0.00	76.65	2.54	36.10
10	SLE R	Diff. tras.	1.40	3.70	5.20	-11009.40	0.00	47.76	2.83	40.94
10	SLE R	Diff. long.	1.40	3.70	5.20	-11009.40	-237.49	0.00	2.79	41.58
12	SLE Q	Diff. tras.	1.40	3.70	5.20	-10362.50	0.00	43.17	2.65	38.44
10	SLE R	Diff. long.	2.80	0.00	1.70	-9103.14	-1602.63	0.00	3.04	44.60
12	SLE Q	Diff. long.	2.80	0.00	1.70	-9252.37	-1163.88	0.00	2.75	40.54
10	SLE R	Diff. long.	2.80	3.70	5.20	-9702.75	-1014.41	0.00	3.21	47.21
12	SLE Q	Diff. long.	2.80	3.70	5.20	-9055.84	-674.58	0.00	2.74	40.49
10	SLE R	Diff. tras.	2.80	0.00	5.20	-18539.90	0.00	165.94	1.51	21.24
12	SLE Q	Diff. tras.	2.80	0.00	5.20	-18080.00	0.00	141.30	1.44	20.41
10	SLE R	Diff. long.	3.70	0.00	5.20	-15803.90	-493.91	0.00	1.10	16.55
12	SLE Q	Diff. long.	3.70	0.00	5.20	-15244.70	-844.82	0.00	1.09	16.39
10	SLE R	Diff. tras.	4.60	0.00	5.20	-12866.10	0.00	86.82	1.00	14.31
12	SLE Q	Diff. tras.	4.60	0.00	5.20	-12312.40	0.00	74.44	0.95	13.57

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	1.70	SLV	-36066.80	0.00	36066.80	2.47	112788.00	112788.00	112788.00	3.127

1	Diff. tras.	0.00	0.00	1.70	SLV	0.00	1081.57	1081.57				21716.20	20.078
1	Diff. long.	0.00	3.70	5.20	SLV	18809.10	0.00	18809.10	2.47	99150.10	99150.10	99150.10	5.271
1	Diff. tras.	0.00	3.70	5.20	SLV	0.00	352.94	352.94				19208.50	54.424
1	Diff. long.	1.40	0.00	1.70	SLV	-42098.70	0.00	42098.70	2.47	112788.00	112788.00	112788.00	2.679
1	Diff. tras.	1.40	0.00	1.70	SLV	0.00	-367.32	367.32				21716.20	59.121
1	Diff. long.	1.40	3.70	5.20	SLV	-18802.10	0.00	18802.10	2.47	99150.10	99150.10	99150.10	5.273
1	Diff. tras.	1.40	3.70	5.20	SLV	0.00	-352.94	352.94				19208.50	54.424
1	Diff. long.	2.80	0.00	1.70	SLV	40657.70	0.00	40657.70	2.47	112788.00	112788.00	112788.00	2.774
1	Diff. tras.	2.80	0.00	1.70	SLV	0.00	389.48	389.48				21716.20	55.758
1	Diff. long.	2.80	3.70	5.20	SLV	18809.10	0.00	18809.10	2.47	99150.10	99150.10	99150.10	5.271
1	Diff. tras.	2.80	3.70	5.20	SLV	0.00	352.94	352.94				19208.50	54.424
1	Diff. long.	2.80	0.00	5.20	SLV	-60132.60	0.00	60132.60	2.47	351667.00	351667.00	351667.00	5.848
1	Diff. tras.	2.80	0.00	5.20	SLV	0.00	552.93	552.93				66280.10	>100
1	Diff. long.	3.70	0.00	5.20	SLV	56085.10	0.00	56085.10	2.47	351857.00	351857.00	351857.00	6.274
1	Diff. tras.	3.70	0.00	5.20	SLV	0.00	-411.54	411.54				66538.00	>100
1	Diff. long.	4.60	0.00	5.20	SLV	-55383.60	0.00	55383.60	2.47	351458.00	351458.00	351458.00	6.346
1	Diff. tras.	4.60	0.00	5.20	SLV	0.00	733.95	733.95				65997.40	89.921

Parete n. 212

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLV	Diff. long.	0.00	0.00	5.20	-25994.60	184105.00	0.00	-25994.60	621018.00	0.00	3.373
1	SLV	Diff. tras.	0.00	0.00	5.20	-5577.07	0.00	-6231.72	-5577.07	0.00	-26867.10	4.311
5	SLV	Diff. long.	1.15	0.00	5.20	-25420.70	111828.00	0.00	-25420.70	619828.00	0.00	5.543
1	SLV	Diff. tras.	1.15	0.00	5.20	-73469.20	0.00	53.54	-2262300.00	0.00	32783.60	30.793
5	SLV	Diff. long.	2.30	0.00	5.20	-24129.50	79725.70	0.00	-24129.50	617153.00	0.00	7.741
1	SLV	Diff. tras.	2.30	0.00	5.20	-63890.30	0.00	-326.91	-2262300.00	0.00	-31949.90	35.409
5	SLV	Diff. long.	3.45	0.00	5.20	-22451.30	53625.10	0.00	-22451.30	613670.00	0.00	11.444
1	SLV	Diff. tras.	3.45	0.00	5.20	-54441.80	0.00	220.62	-2262300.00	0.00	31125.90	41.555
5	SLV	Diff. long.	4.60	0.00	5.20	-20727.60	35998.70	0.00	-20727.60	610086.00	0.00	16.948
1	SLV	Diff. tras.	4.60	0.00	5.20	-13540.00	0.00	6047.96	-13540.00	0.00	27557.50	4.556

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	5.20	-47819.20	0.00	-4196.84	12.89	129.44
12	SLE Q	Diff. tras.	0.00	0.00	5.20	-44952.70	0.00	-3581.53	10.79	113.39
10	SLE R	Diff. long.	1.15	0.00	5.20	-44071.60	6453.75	0.00	3.70	55.37
12	SLE Q	Diff. long.	1.15	0.00	5.20	-41059.00	4515.19	0.00	3.32	49.76
10	SLE R	Diff. long.	2.30	0.00	5.20	-40198.20	7265.65	0.00	3.49	52.18
12	SLE Q	Diff. long.	2.30	0.00	5.20	-37283.00	5382.66	0.00	3.12	46.75
10	SLE R	Diff. tras.	3.45	0.00	5.20	-35957.00	0.00	406.79	3.28	45.32
10	SLE R	Diff. long.	3.45	0.00	5.20	-35957.00	7813.25	0.00	3.23	48.28
12	SLE Q	Diff. tras.	3.45	0.00	5.20	-33247.60	0.00	349.61	2.98	41.48
10	SLE R	Diff. tras.	4.60	0.00	5.20	-32142.10	0.00	4491.47	15.61	285.79
12	SLE Q	Diff. tras.	4.60	0.00	5.20	-29284.40	0.00	3845.26	13.18	222.12

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff. tras.	4.60	0.00	5.20	-29284.40	0.00	3845.26	40.00	196.46	0.50	12.00	184.85	30.54	2668.16	222.12	0.06	0.02
11	SLE F	Diff. tras.	4.60	0.00	5.20	-29707.90	0.00	3963.96	40.00	196.46	0.50	12.00	185.62	30.54	2687.74	235.00	0.07	0.02

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5	Diff. long.	0.00	0.00	5.20	SLV	101848.00	0.00	101848.00	2.48	353801.00	353801.00	353801.00	3.474
1	Diff. tras.	0.00	0.00	5.20	SLV	0.00	-8714.33	8714.33				58448.30	6.707
5	Diff. long.	1.15	0.00	5.20	SLV	-104277.00	0.00	104277.00	2.48	353750.00	353750.00	353750.00	3.392
1	Diff. tras.	1.15	0.00	5.20	SLV	0.00	-1587.80	1587.80				58824.20	37.048
5	Diff. long.	2.30	0.00	5.20	SLV	-103912.00	0.00	103912.00	2.48	353634.00	353634.00	353634.00	3.403
1	Diff. tras.	2.30	0.00	5.20	SLV	0.00	878.28	878.28				59072.30	67.259
5	Diff. long.	3.45	0.00	5.20	SLV	-103987.00	0.00	103987.00	2.48	353483.00	353483.00	353483.00	3.399
5	Diff. tras.	3.45	0.00	5.20	SLV	0.00	390.19	390.19				60513.70	>100
5	Diff. long.	4.60	0.00	5.20	SLV	102644.00	0.00	102644.00	2.48	353328.00	353328.00	353328.00	3.442
1	Diff. tras.	4.60	0.00	5.20	SLV	0.00	-12783.20	12783.20				59422.90	4.649

Parete n. 407

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
1	SLV	Diff. long.	0.00	0.00	4.18	-878.89	37916.10	0.00	-878.89	372288.00	0.00	9.819
5	SLV	Diff. tras.	0.00	0.00	4.18	-4108.22	0.00	-603.69	-4108.22	0.00	-21790.50	36.096
1	SLV	Diff. long.	1.45	0.00	4.18	-1082.22	35742.00	0.00	-1082.22	372634.00	0.00	10.426
9	SLU	Diff. tras.	1.45	0.00	4.18	-14347.20	0.00	542.07	-14347.20	0.00	22676.00	41.832
1	SLV	Diff. long.	2.90	0.00	4.18	1618.60	31147.00	0.00	1618.60	365790.00	0.00	11.744
9	SLU	Diff. tras.	2.90	0.00	4.18	-9942.01	0.00	1885.64	-9942.01	0.00	22295.50	11.824
1	SLV	Diff. long.	2.90	0.00	5.78	-4596.49	-9851.76	0.00	-4596.49	-712520.00	0.00	72.324
9	SLU	Diff. tras.	2.90	0.00	5.78	-10659.70	0.00	1875.59	-10659.70	0.00	30241.90	16.124
1	SLV	Diff. long.	3.60	0.00	5.78	-2067.74	-6596.38	0.00	-2067.74	-706547.00	0.00	>100
9	SLU	Diff. tras.	3.60	0.00	5.78	-7372.30	0.00	4127.55	-7372.30	0.00	29957.10	7.258

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. long.	0.00	0.00	4.18	-15681.00	2725.85	0.00	1.75	26.12
12	SLE Q	Diff. long.	0.00	0.00	4.18	-14945.80	2371.98	0.00	1.64	24.47
10	SLE R	Diff. tras.	1.45	0.00	4.18	-10729.30	0.00	389.57	1.78	22.19
10	SLE R	Diff. long.	1.45	0.00	4.18	-10729.30	6222.97	0.00	1.75	26.04
12	SLE Q	Diff. tras.	1.45	0.00	4.18	-10092.70	0.00	335.44	1.61	20.25
10	SLE R	Diff. tras.	2.90	0.00	4.18	-7317.38	0.00	1358.30	6.14	147.65
12	SLE Q	Diff. tras.	2.90	0.00	4.18	-6642.75	0.00	1174.71	5.27	122.02
10	SLE R	Diff. tras.	2.90	0.00	5.78	-7834.85	0.00	1352.70	4.40	100.44
12	SLE Q	Diff. tras.	2.90	0.00	5.78	-7113.93	0.00	1167.00	3.77	82.07
10	SLE R	Diff. tras.	3.60	0.00	5.78	-5306.10	0.00	2975.87	10.40	390.70
12	SLE Q	Diff. tras.	3.60	0.00	5.78	-4585.18	0.00	2571.60	8.99	337.62

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff. tras.	2.90	0.00	4.18	-6642.75	0.00	1174.71	40.00	194.67	0.50	12.00	194.09	24.88	2365.58	122.02	0.04	0.01
11	SLE F	Diff. tras.	2.90	0.00	4.18	-6634.40	0.00	1174.68	40.00	194.67	0.50	12.00	194.12	24.88	2366.27	122.16	0.04	0.01
12	SLE Q	Diff. tras.	2.90	0.00	5.78	-7113.93	0.00	1167.00	40.00	245.50	0.50	12.00	193.60	33.93	3212.04	82.07	0.02	0.01
11	SLE F	Diff. tras.	2.90	0.00	5.78	-7119.23	0.00	1166.96	40.00	245.50	0.50	12.00	193.58	33.93	3211.34	81.99	0.02	0.01
12	SLE Q	Diff. tras.	3.60	0.00	5.78	-4585.18	0.00	2571.60	40.00	245.50	0.50	12.00	210.53	33.93	3690.59	337.62	0.10	0.04
11	SLE F	Diff. tras.	3.60	0.00	5.78	-4590.48	0.00	2571.74	40.00	245.50	0.50	12.00	210.52	33.93	3690.43	337.56	0.10	0.04

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	4.18	SLV	-13438.80	0.00	13438.80	2.47	281982.00	281982.00	281982.00	20.983
5	Diff. tras.	0.00	0.00	4.18	SLV	0.00	-750.80	750.80				46937.50	62.517
1	Diff. long.	1.45	0.00	4.18	SLV	-13854.70	0.00	13854.70	2.47	282000.00	282000.00	282000.00	20.354
1	Diff. tras.	1.45	0.00	4.18	SLV	0.00	606.28	606.28				46567.10	76.808
1	Diff. long.	2.90	0.00	4.18	SLV	12208.90	0.00	12208.90	2.47	281903.00	281903.00	281903.00	23.090
9	Diff. tras.	2.90	0.00	4.18	SLU	0.00	-1239.99	1239.99				47651.60	38.429
1	Diff. long.	2.90	0.00	5.78	SLV	12132.10	0.00	12132.10	2.47	391425.00	391425.00	391425.00	32.264
9	Diff. tras.	2.90	0.00	5.78	SLU	0.00	-3217.09	3217.09				65513.40	20.364
1	Diff. long.	3.60	0.00	5.78	SLV	12132.10	0.00	12132.10	2.47	391196.00	391196.00	391196.00	32.245
9	Diff. tras.	3.60	0.00	5.78	SLU	0.00	-3217.09	3217.09				65111.10	20.239

Parete n. 408

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
1	SLV	Diff. long.	0.00	0.00	5.78	-4020.33	-15519.50	0.00	-4020.33	-708691.00	0.00	45.665
1	SLV	Diff. tras.	0.00	0.00	5.78	-4020.33	0.00	-3043.47	-4020.33	0.00	-29665.80	9.747
1	SLV	Diff. long.	1.20	0.00	5.78	-3926.53	7200.35	0.00	-3926.53	708463.00	0.00	98.393
5	SLV	Diff. tras.	1.20	0.00	5.78	-22736.00	0.00	-125.33	-2514640.00	0.00	-31287.20	>100
5	SLV	Diff. long.	2.40	0.00	5.78	-13463.40	2525.92	0.00	-2514640.00	730888.00	0.00	>100
9	SLU	Diff. tras.	2.40	0.00	5.78	-12030.20	0.00	-1486.59	-12030.20	0.00	-30360.60	20.423
1	SLV	Diff. long.	3.60	0.00	5.78	-3368.68	-3168.27	0.00	-3368.68	-707154.00	0.00	>100
9	SLU	Diff. tras.	3.60	0.00	5.78	-7835.25	0.00	-4532.05	-7835.25	0.00	-29997.10	6.619

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	5.78	-18547.80	0.00	-591.06	2.10	26.57
12	SLE Q	Diff. tras.	0.00	0.00	5.78	-17747.90	0.00	-560.27	2.01	25.35
10	SLE R	Diff. long.	1.20	0.00	5.78	-12215.00	1579.82	0.00	0.90	13.41
12	SLE Q	Diff. long.	1.20	0.00	5.78	-11582.30	1261.11	0.00	0.83	12.48
10	SLE R	Diff. tras.	2.40	0.00	5.78	-8921.35	0.00	-1068.52	3.22	47.10
12	SLE Q	Diff. tras.	2.40	0.00	5.78	-8273.95	0.00	-930.86	2.76	36.05
10	SLE R	Diff. tras.	3.60	0.00	5.78	-5636.37	0.00	-3267.77	11.40	431.48
12	SLE Q	Diff. tras.	3.60	0.00	5.78	-4848.58	0.00	-2823.05	9.85	373.07

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff. tras.	2.40	0.00	5.78	-8273.95	0.00	-930.86	40.00	196.14	0.50	12.00	176.08	33.93	2716.62	36.05	0.01	0.00
11	SLE F	Diff. tras.	2.40	0.00	5.78	-8268.69	0.00	-931.10	40.00	196.14	0.50	12.00	176.14	33.93	2718.28	36.13	0.01	0.00
12	SLE Q	Diff. tras.	3.60	0.00	5.78	-4848.58	0.00	-2823.05	40.00	196.14	0.50	12.00	210.92	33.93	3701.56	373.07	0.11	0.04
11	SLE F	Diff. tras.	3.60	0.00	5.78	-4861.44	0.00	-2823.32	40.00	196.14	0.50	12.00	210.90	33.93	3701.19	372.91	0.11	0.04

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	Diff. long.	0.00	0.00	5.78	SLV	-12420.10	0.00	12420.10	2.47	391373.00	391373.00	391373.00	31.511
1	Diff. tras.	0.00	0.00	5.78	SLV	0.00	-4255.82	4255.82				64700.80	15.203
1	Diff. long.	1.20	0.00	5.78	SLV	-9285.30	0.00	9285.30	2.47	391364.00	391364.00	391364.00	42.149
1	Diff. tras.	1.20	0.00	5.78	SLV	0.00	-1945.03	1945.03				64689.30	33.259
1	Diff. long.	2.40	0.00	5.78	SLV	9168.86	0.00	9168.86	2.47	391346.00	391346.00	391346.00	42.682
9	Diff. tras.	2.40	0.00	5.78	SLU	0.00	-1549.05	1549.05				65681.20	42.401
1	Diff. long.	3.60	0.00	5.78	SLV	-8385.52	0.00	8385.52	2.47	391314.00	391314.00	391314.00	46.665
9	Diff. tras.	3.60	0.00	5.78	SLU	0.00	3365.33	3365.33				65167.70	19.364

Parete n. 409

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
5	SLV	Diff. long.	0.00	0.00	1.70	2637.52	-8993.14	0.00	2637.52	-66045.10	0.00	7.344
1	SLV	Diff. tras.	0.00	0.00	1.70	5643.90	0.00	459.75	5643.90	0.00	8904.43	19.368
1	SLV	Diff. long.	0.00	3.70	5.20	-2713.08	12879.10	0.00	-2713.08	55720.80	0.00	4.326
5	SLV	Diff. tras.	0.00	3.70	5.20	-3719.38	0.00	-464.96	-3719.38	0.00	-8854.43	19.044
1	SLV	Diff. long.	1.45	0.00	1.70	3078.19	5442.08	0.00	3078.19	65739.60	0.00	12.080
1	SLV	Diff. tras.	1.45	0.00	1.70	-12426.00	0.00	5.39	-739600.00	0.00	10596.10	59.520
1	SLV	Diff. long.	1.45	3.70	5.20	-1306.83	-943.54	0.00	-1306.83	-54896.20	0.00	58.181
1	SLV	Diff. tras.	1.45	3.70	5.20	-1306.83	0.00	-658.12	-1306.83	0.00	-8644.59	13.135
5	SLV	Diff. long.	2.90	0.00	1.70	997.59	8048.12	0.00	997.59	67191.70	0.00	8.349
9	SLU	Diff. tras.	2.90	0.00	1.70	-4992.59	0.00	-861.65	-4992.59	0.00	-9950.84	11.549
1	SLV	Diff. long.	2.90	3.70	5.20	5.67	-12643.90	0.00	5.67	-53830.70	0.00	4.257
1	SLV	Diff. tras.	2.90	3.70	5.20	5.67	0.00	-1325.48	5.67	0.00	-8453.93	6.378
5	SLV	Diff. long.	2.90	0.00	5.20	-5038.67	6316.11	0.00	-5038.67	616363.00	0.00	97.586
1	SLV	Diff. tras.	2.90	0.00	5.20	-3513.80	0.00	-1674.54	-3513.80	0.00	-28207.90	16.845
5	SLV	Diff. long.	3.60	0.00	5.20	-2763.67	4514.75	0.00	-2763.67	611592.00	0.00	>100
9	SLU	Diff. tras.	3.60	0.00	5.20	-6662.11	0.00	-3112.25	-6662.11	0.00	-28478.90	9.151

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	1.70	-6806.21	0.00	141.89	2.21	29.18
12	SLE Q	Diff. tras.	0.00	0.00	1.70	-6502.50	0.00	123.13	2.05	27.27
10	SLE R	Diff. long.	0.00	3.70	5.20	-6423.39	271.95	0.00	1.85	27.51
12	SLE Q	Diff. long.	0.00	3.70	5.20	-6086.15	206.78	0.00	1.70	25.36
10	SLE R	Diff. long.	1.45	0.00	1.70	-4948.02	1373.40	0.00	2.13	31.06
12	SLE Q	Diff. long.	1.45	0.00	1.70	-4673.92	1250.47	0.00	1.97	28.83
10	SLE R	Diff. tras.	1.45	3.70	5.20	-5017.14	0.00	-163.68	2.19	27.61
12	SLE Q	Diff. tras.	1.45	3.70	5.20	-4679.90	0.00	-141.20	1.98	25.12
10	SLE R	Diff. tras.	2.90	0.00	1.70	-3747.86	0.00	-619.97	6.53	134.90
12	SLE Q	Diff. tras.	2.90	0.00	1.70	-3422.87	0.00	-534.17	5.58	108.91
10	SLE R	Diff. long.	2.90	3.70	5.20	-3704.64	-1966.23	0.00	3.47	49.12
12	SLE Q	Diff. long.	2.90	3.70	5.20	-3367.40	-1705.95	0.00	2.98	42.31
10	SLE R	Diff. tras.	2.90	0.00	5.20	-7086.18	0.00	-737.02	2.34	25.22
12	SLE Q	Diff. tras.	2.90	0.00	5.20	-6462.67	0.00	-639.06	2.00	19.17
10	SLE R	Diff. tras.	3.60	0.00	5.20	-4811.18	0.00	-2248.16	8.44	294.42
12	SLE Q	Diff. tras.	3.60	0.00	5.20	-4187.67	0.00	-1944.10	7.30	254.18

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff. tras.	2.90	0.00	1.70	-3422.87	0.00	-534.17	40.00	178.67	0.50	12.00	177.03	11.31	914.53	108.91	0.03	0.01
11	SLE F	Diff. tras.	2.90	0.00	1.70	-3401.67	0.00	-536.05	40.00	178.67	0.50	12.00	177.33	11.31	917.33	110.54	0.03	0.01
12	SLE Q	Diff. long.	2.90	3.70	5.20	-3367.40	-1705.95	0.00	40.00	158.00	0.50	12.00	232.52	2.26	287.50	29.93	0.01	0.00
11	SLE F	Diff. long.	2.90	3.70	5.20	-3384.43	-1727.45	0.00	40.00	158.00	0.50	12.00	232.52	2.26	287.50	30.92	0.01	0.00
12	SLE Q	Diff. tras.	3.60	0.00	5.20	-4187.67	0.00	-1944.10	40.00	200.00	0.50	12.00	199.52	32.80	3266.70	254.18	0.07	0.03
11	SLE F	Diff. tras.	3.60	0.00	5.20	-4179.36	0.00	-1939.51	40.00	200.00	0.50	12.00	199.52	32.80	3266.64	253.55	0.07	0.03

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5	Diff. long.	0.00	0.00	1.70	SLV	-9037.36	0.00	9037.36	2.47	112788.00	112788.00	112788.00	12.480

1	Diff. tras.	0.00	0.00	1.70	SLV	0.00	579.03	579.03				18884.90	32.615
1	Diff. long.	0.00	3.70	5.20	SLV	8774.65	0.00	8774.65	2.47	99389.80	99389.80	99389.80	11.327
5	Diff. tras.	0.00	3.70	5.20	SLV	0.00	530.13	530.13				17118.40	32.291
5	Diff. long.	1.45	0.00	1.70	SLV	7667.28	0.00	7667.28	2.47	112823.00	112823.00	112823.00	14.715
1	Diff. tras.	1.45	0.00	1.70	SLV	0.00	-325.97	325.97				18884.90	57.935
1	Diff. long.	1.45	3.70	5.20	SLV	-8769.57	0.00	8769.57	2.47	99265.60	99265.60	99265.60	11.319
5	Diff. tras.	1.45	3.70	5.20	SLV	0.00	-530.13	530.13				16946.30	31.966
5	Diff. long.	2.90	0.00	1.70	SLV	-7489.38	0.00	7489.38	2.47	112788.00	112788.00	112788.00	15.060
9	Diff. tras.	2.90	0.00	1.70	SLU	0.00	806.45	806.45				19496.00	24.175
1	Diff. long.	2.90	3.70	5.20	SLV	8774.65	0.00	8774.65	2.47	99150.10	99150.10	99150.10	11.300
5	Diff. tras.	2.90	3.70	5.20	SLV	0.00	530.13	530.13				16785.60	31.663
5	Diff. long.	2.90	0.00	5.20	SLV	13434.10	0.00	13434.10	2.47	351913.00	351913.00	351913.00	26.195
9	Diff. tras.	2.90	0.00	5.20	SLU	0.00	2995.08	2995.08				58943.10	19.680
5	Diff. long.	3.60	0.00	5.20	SLV	13434.10	0.00	13434.10	2.47	351708.00	351708.00	351708.00	26.180
9	Diff. tras.	3.60	0.00	5.20	SLU	0.00	2995.08	2995.08				58581.10	19.559

Parete n. 412

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
Oriz.	25.00	4.60	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

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

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	Nu <daN>	MRdz <daNm>	MRdy <daNm>	Sic.
1	SLV	Diff. long.	0.00	0.00	5.20	-2466.10	35300.60	0.00	-2466.10	571850.00	0.00	16.199
1	SLV	Diff. tras.	0.00	0.00	5.20	-2466.10	0.00	-6731.06	-2466.10	0.00	-26597.30	3.951
5	SLV	Diff. long.	1.20	0.00	5.20	-8247.42	14945.30	0.00	-8247.42	584040.00	0.00	39.078
1	SLV	Diff. tras.	1.20	0.00	5.20	-5443.27	0.00	650.16	-5443.27	0.00	26855.70	41.306
5	SLV	Diff. long.	2.40	0.00	5.20	-6539.30	8874.89	0.00	-6539.30	580464.00	0.00	65.405
9	SLU	Diff. tras.	2.40	0.00	5.20	-11966.90	0.00	-1386.89	-11966.90	0.00	-27421.10	19.772
5	SLV	Diff. long.	3.60	0.00	5.20	-3161.53	2670.37	0.00	-3161.53	573343.00	0.00	>100
9	SLU	Diff. tras.	3.60	0.00	5.20	-5857.00	0.00	-3476.01	-5857.00	0.00	-26891.30	7.736

Stato limite d'esercizio - Verifiche tensionali

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
10	SLE R	Diff. tras.	0.00	0.00	5.20	-15413.90	0.00	-4897.18	18.67	603.61
12	SLE Q	Diff. tras.	0.00	0.00	5.20	-14884.90	0.00	-4188.87	15.87	488.93
10	SLE R	Diff. tras.	1.20	0.00	5.20	-12313.70	0.00	460.41	1.67	20.70
12	SLE Q	Diff. tras.	1.20	0.00	5.20	-11545.50	0.00	393.54	1.50	18.80
10	SLE R	Diff. tras.	2.40	0.00	5.20	-8850.99	0.00	-991.19	3.26	42.22
12	SLE Q	Diff. tras.	2.40	0.00	5.20	-8145.79	0.00	-854.23	2.76	31.18
10	SLE R	Diff. tras.	3.60	0.00	5.20	-4233.60	0.00	-2510.30	9.74	369.91
12	SLE Q	Diff. tras.	3.60	0.00	5.20	-3660.78	0.00	-2171.86	8.43	320.07

Stato limite d'esercizio - Verifiche a fessurazione

CC	TCC	Zona	Zv <m>	Xi <m>	Xf <m>	N <daN>	Mz <daNm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
12	SLE Q	Diff. tras.	0.00	0.00	5.20	-14884.90	0.00	-4188.87	40.00	196.46	0.50	12.00	204.79	30.54	3175.64	488.93	0.14	0.05
11	SLE F	Diff. tras.	0.00	0.00	5.20	-14869.20	0.00	-4331.30	40.00	196.46	0.50	12.00	205.24	30.54	3186.85	513.92	0.15	0.05
12	SLE Q	Diff. tras.	3.60	0.00	5.20	-3660.78	0.00	-2171.86	40.00	196.46	0.50	12.00	210.96	30.54	3332.39	320.07	0.09	0.03
11	SLE F	Diff. tras.	3.60	0.00	5.20	-3650.92	0.00	-2167.25	40.00	196.46	0.50	12.00	210.96	30.54	3332.47	319.43	0.09	0.03

Stato limite ultimo - Verifiche a taglio

CC	Zona	Zv <m>	Xi <m>	Xf <m>	TCC	Ty <daN>	Tz <daN>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5	Diff. long.	0.00	0.00	5.20	SLV	14693.80	0.00	14693.80	2.47	352198.00	352198.00	352198.00	23.969
9	Diff. tras.	0.00	0.00	5.20	SLU	0.00	-10957.10	10957.10				60248.80	5.499
5	Diff. long.	1.20	0.00	5.20	SLV	-14416.70	0.00	14416.70	2.47	352203.00	352203.00	352203.00	24.430
9	Diff. tras.	1.20	0.00	5.20	SLU	0.00	-3459.12	3459.12				59786.10	17.284
5	Diff. long.	2.40	0.00	5.20	SLV	-14359.40	0.00	14359.40	2.47	352049.00	352049.00	352049.00	24.517
1	Diff. tras.	2.40	0.00	5.20	SLV	0.00	-492.95	492.95				58391.50	>100
5	Diff. long.	3.60	0.00	5.20	SLV	14137.90	0.00	14137.90	2.47	351744.00	351744.00	351744.00	24.880
9	Diff. tras.	3.60	0.00	5.20	SLU	0.00	3366.64	3366.64				58482.50	17.371

CENTRALE_03

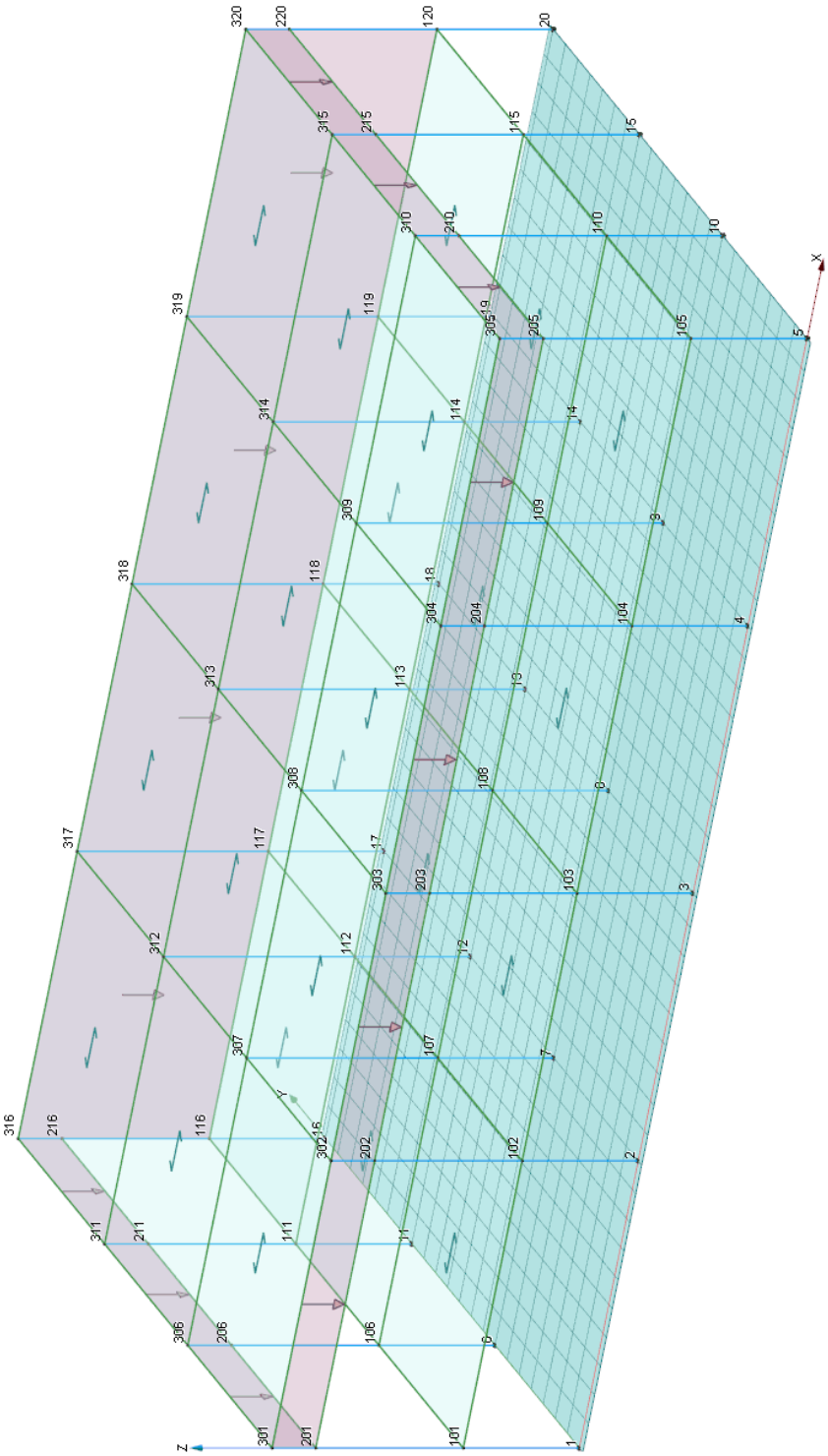

Figura 1: nodi

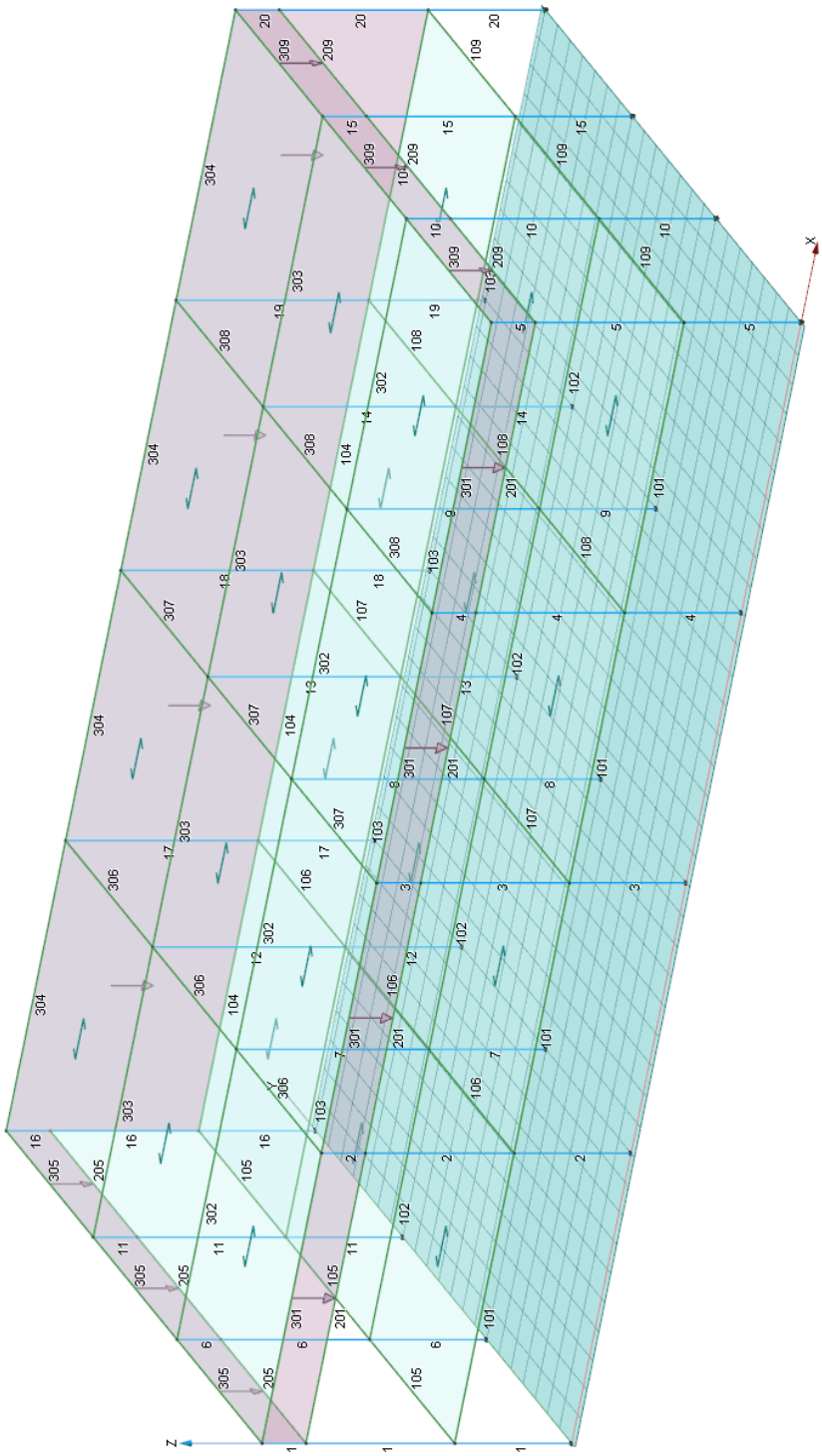

Figura 2: aste

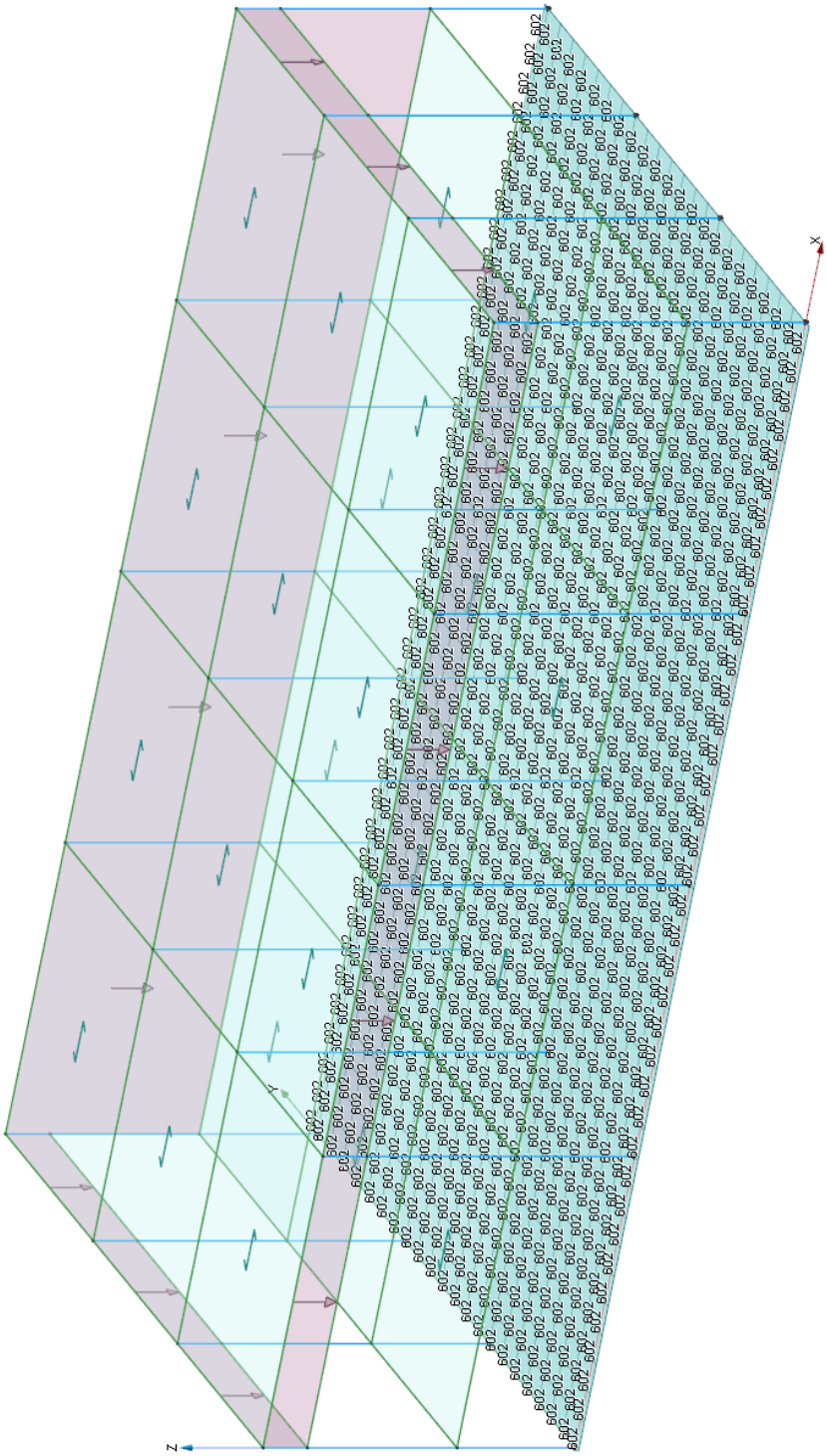

Figura 3: platea

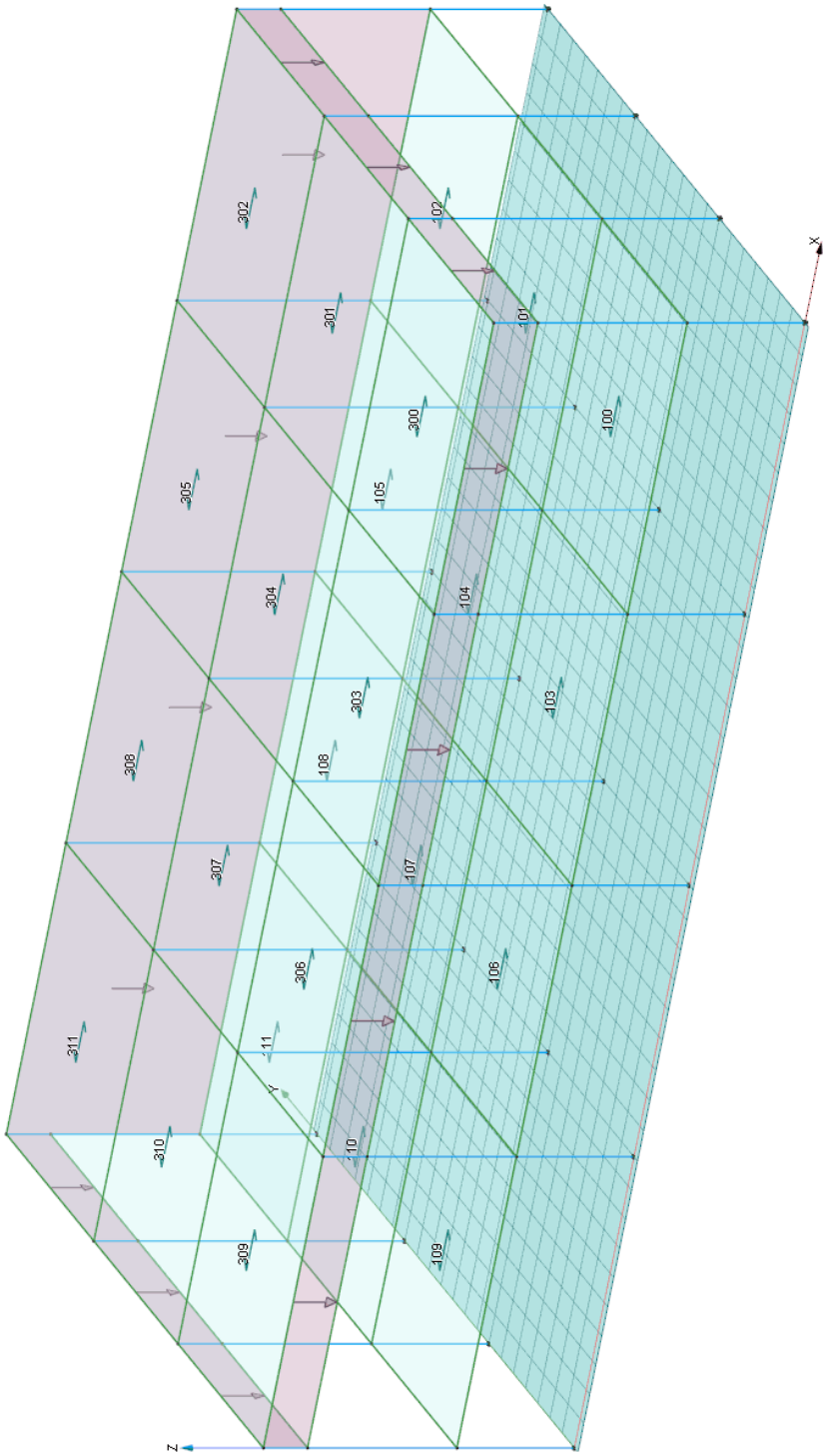

Figura 4: solai

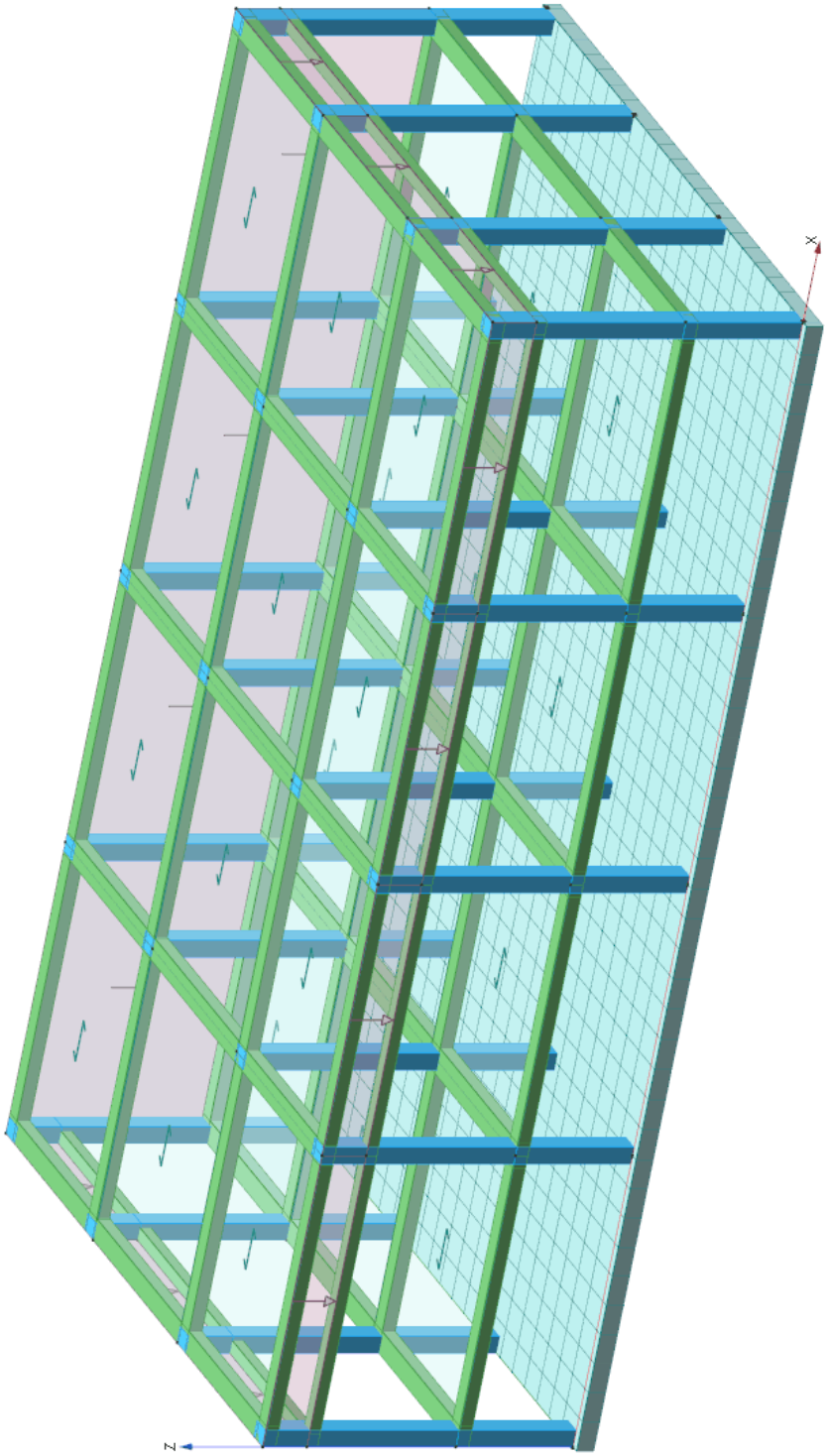

Figura 5: Modello 3D

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.

Unità di misura

Le unità di misura adottate sono le seguenti:
- lunghezze : m
- forze : daN
- masse : kg
- temperature : gradi centigradi
- angoli : gradi sessadecimali o radianti

Geometria

Elenco vincoli nodi

Simbologia

Comm. = Commento
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
Ly = Lunghezza (dir. Y locale)
Lz = Larghezza (dir. Z locale)
RL = Rotazione libera
Rx = Rotazione intorno all'asse X (L=libera, B=bloccata, E=elastica)
Ry = Rotazione intorno all'asse Y (L=libera, B=bloccata, E=elastica)
Rz = Rotazione intorno all'asse Z (L=libera, B=bloccata, E=elastica)
Sx = Spostamento in dir. X (L=libero, B=bloccato, E=elastico)
Sy = Spostamento in dir. Y (L=libero, B=bloccato, E=elastico)
Sz = Spostamento in dir. Z (L=libero, B=bloccato, E=elastico)
Vn = Numero del vincolo nodo

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

Elenco nodi

Simbologia

Imp. = Numero dell'impalcato
Nodo = Numero del nodo
Vn = Numero del vincolo nodo

X = Coordinata X del nodo
Y = Coordinata Y del nodo
Z = Coordinata Z del nodo

Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn
-916	27.38	15.47	0.00	0	3
-915	26.67	15.47	0.00	0	3
-914	25.96	15.47	0.00	0	3
-913	25.25	15.47	0.00	0	3
-912	24.54	15.47	0.00	0	3
-911	23.84	15.47	0.00	0	3
-910	23.13	15.47	0.00	0	3
-909	22.42	15.47	0.00	0	3
-908	21.71	15.47	0.00	0	3
-907	21.00	15.47	0.00	0	3
-906	20.29	15.47	0.00	0	3
-905	19.56	15.47	0.00	0	3
-904	18.82	15.47	0.00	0	3
-903	18.09	15.47	0.00	0	3
-902	17.36	15.47	0.00	0	3
-901	16.62	15.47	0.00	0	3
-900	15.89	15.47	0.00	0	3
-899	15.16	15.47	0.00	0	3
-898	14.42	15.47	0.00	0	3
-897	13.69	15.47	0.00	0	3
-896	12.96	15.47	0.00	0	3
-895	12.22	15.47	0.00	0	3
-894	11.49	15.47	0.00	0	3
-893	10.76	15.47	0.00	0	3
-892	10.02	15.47	0.00	0	3
-891	9.29	15.47	0.00	0	3
-890	8.56	15.47	0.00	0	3
-889	7.82	15.47	0.00	0	3
-888	7.09	15.47	0.00	0	3
-887	6.38	15.47	0.00	0	3
-886	5.67	15.47	0.00	0	3
-885	4.96	15.47	0.00	0	3
-884	4.25	15.47	0.00	0	3
-883	3.54	15.47	0.00	0	3
-882	2.84	15.47	0.00	0	3
-881	2.13	15.47	0.00	0	3
-880	1.42	15.47	0.00	0	3
-879	0.71	15.47	0.00	0	3
-878	0.00	15.47	0.00	0	3
-877	26.67	15.27	0.00	0	3
-876	25.96	15.27	0.00	0	3
-875	25.25	15.27	0.00	0	3
-874	24.54	15.27	0.00	0	3
-873	23.84	15.27	0.00	0	3
-872	23.13	15.27	0.00	0	3
-871	22.42	15.27	0.00	0	3
-870	21.71	15.27	0.00	0	3
-869	21.00	15.27	0.00	0	3
-868	19.56	15.27	0.00	0	3
-867	18.82	15.27	0.00	0	3
-866	18.09	15.27	0.00	0	3
-865	17.36	15.27	0.00	0	3
-864	16.62	15.27	0.00	0	3
-863	15.89	15.27	0.00	0	3
-862	15.16	15.27	0.00	0	3
-861	14.42	15.27	0.00	0	3
-860	12.96	15.27	0.00	0	3
-859	12.22	15.27	0.00	0	3
-858	11.49	15.27	0.00	0	3
-857	10.76	15.27	0.00	0	3
-856	10.02	15.27	0.00	0	3
-855	9.29	15.27	0.00	0	3
-854	8.56	15.27	0.00	0	3
-853	7.82	15.27	0.00	0	3
-852	6.38	15.27	0.00	0	3
-851	5.67	15.27	0.00	0	3
-850	4.96	15.27	0.00	0	3
-849	4.25	15.27	0.00	0	3
-848	3.54	15.27	0.00	0	3
-847	2.84	15.27	0.00	0	3
-846	2.13	15.27	0.00	0	3
-845	1.42	15.27	0.00	0	3
-844	0.71	15.27	0.00	0	3
-843	27.38	14.53	0.00	0	3
-842	26.67	14.53	0.00	0	3
-841	25.96	14.53	0.00	0	3
-840	25.25	14.53	0.00	0	3
-839	24.54	14.53	0.00	0	3
-838	23.84	14.53	0.00	0	3
-837	23.13	14.53	0.00	0	3
-836	22.42	14.53	0.00	0	3
-835	21.71	14.53	0.00	0	3
-834	21.00	14.53	0.00	0	3
-833	20.29	14.53	0.00	0	3
-832	19.56	14.53	0.00	0	3
-831	18.82	14.53	0.00	0	3
-830	18.09	14.53	0.00	0	3
-829	17.36	14.53	0.00	0	3
-828	16.62	14.53	0.00	0	3
-827	15.89	14.53	0.00	0	3
-826	15.16	14.53	0.00	0	3
-825	14.42	14.53	0.00	0	3
-824	13.69	14.53	0.00	0	3
-823	12.96	14.53	0.00	0	3
-822	12.22	14.53	0.00	0	3
-821	11.49	14.53	0.00	0	3
-820	10.76	14.53	0.00	0	3
-819	10.02	14.53	0.00	0	3
-818	9.29	14.53	0.00	0	3
-817	8.56	14.53	0.00	0	3
-816	7.82	14.53	0.00	0	3
-815	7.09	14.53	0.00	0	3
-814	6.38	14.53	0.00	0	3
-813	5.67	14.53	0.00	0	3
-812	4.96	14.53	0.00	0	3
-811	4.25	14.53	0.00	0	3
-810	3.54	14.53	0.00	0	3
-809	2.84	14.53	0.00	0	3
-808	2.13	14.53	0.00	0	3
-807	1.42	14.53	0.00	0	3
-806	0.71	14.53	0.00	0	3
-805	0.00	14.53	0.00	0	3
-804	27.38	13.78	0.00	0	3
-803	26.67	13.78	0.00	0	3
-802	25.96	13.78	0.00	0	3
-801	25.25	13.78	0.00	0	3
-800	24.54	13.78	0.00	0	3
-799	23.84	13.78	0.00	0	3
-798	23.13	13.78	0.00	0	3
-797	22.42	13.78	0.00	0	3
-796	21.71	13.78	0.00	0	3
-795	21.00	13.78	0.00	0	3
-794	20.29	13.78	0.00	0	3
-793	19.56	13.78	0.00	0	3
-792	18.82	13.78	0.00	0	3
-791	18.09	13.78	0.00	0	3
-790	17.36	13.78	0.00	0	3
-789	16.62	13.78	0.00	0	3
-788	15.89	13.78	0.00	0	3
-787	15.16	13.78	0.00	0	3
-786	14.42	13.78	0.00	0	3
-785	13.69	13.78	0.00	0	3
-784	12.96	13.78	0.00	0	3
-783	12.22	13.78	0.00	0	3
-782	11.49	13.78	0.00	0	3
-781	10.76	13.78	0.00	0	3
-780	10.02	13.78	0.00	0	3
-779	9.29	13.78	0.00	0	3
-778	8.56	13.78	0.00	0	3
-777	7.82	13.78	0.00	0	3
-776	7.09	13.78	0.00	0	3

-775	6.38	13.78	0.00	0	3
-772	4.25	13.78	0.00	0	3
-769	2.13	13.78	0.00	0	3
-766	0.00	13.78	0.00	0	3
-763	25.96	13.04	0.00	0	3
-760	23.84	13.04	0.00	0	3
-757	21.71	13.04	0.00	0	3
-754	19.56	13.04	0.00	0	3
-751	17.36	13.04	0.00	0	3
-748	15.16	13.04	0.00	0	3
-745	12.96	13.04	0.00	0	3
-742	10.76	13.04	0.00	0	3
-739	8.56	13.04	0.00	0	3
-736	6.38	13.04	0.00	0	3
-733	4.25	13.04	0.00	0	3
-730	2.13	13.04	0.00	0	3
-727	0.00	13.04	0.00	0	3
-724	25.96	12.30	0.00	0	3
-721	23.84	12.30	0.00	0	3
-718	21.71	12.30	0.00	0	3
-715	19.56	12.30	0.00	0	3
-712	17.36	12.30	0.00	0	3
-709	15.16	12.30	0.00	0	3
-706	12.96	12.30	0.00	0	3
-703	10.76	12.30	0.00	0	3
-700	8.56	12.30	0.00	0	3
-697	6.38	12.30	0.00	0	3
-694	4.25	12.30	0.00	0	3
-691	2.13	12.30	0.00	0	3
-688	0.00	12.30	0.00	0	3
-685	25.96	11.56	0.00	0	3
-682	23.84	11.56	0.00	0	3
-679	21.71	11.56	0.00	0	3
-676	19.56	11.56	0.00	0	3
-673	17.36	11.56	0.00	0	3
-670	15.16	11.56	0.00	0	3
-667	12.96	11.56	0.00	0	3
-664	10.76	11.56	0.00	0	3
-661	8.56	11.56	0.00	0	3
-658	6.38	11.56	0.00	0	3
-655	4.25	11.56	0.00	0	3
-652	2.13	11.56	0.00	0	3
-649	0.00	11.56	0.00	0	3
-646	25.96	10.81	0.00	0	3
-643	23.84	10.81	0.00	0	3
-640	21.71	10.81	0.00	0	3
-637	19.56	10.81	0.00	0	3
-634	17.36	10.81	0.00	0	3
-631	15.16	10.81	0.00	0	3
-628	12.96	10.81	0.00	0	3
-625	10.76	10.81	0.00	0	3

-774	5.67	13.78	0.00	0	3
-771	3.54	13.78	0.00	0	3
-768	1.42	13.78	0.00	0	3
-765	27.38	13.04	0.00	0	3
-762	25.25	13.04	0.00	0	3
-759	23.13	13.04	0.00	0	3
-756	21.00	13.04	0.00	0	3
-753	18.82	13.04	0.00	0	3
-750	16.62	13.04	0.00	0	3
-747	14.42	13.04	0.00	0	3
-744	12.22	13.04	0.00	0	3
-741	10.02	13.04	0.00	0	3
-738	7.82	13.04	0.00	0	3
-735	5.67	13.04	0.00	0	3
-732	3.54	13.04	0.00	0	3
-729	1.42	13.04	0.00	0	3
-726	27.38	12.30	0.00	0	3
-723	25.25	12.30	0.00	0	3
-720	23.13	12.30	0.00	0	3
-717	21.00	12.30	0.00	0	3
-714	18.82	12.30	0.00	0	3
-711	16.62	12.30	0.00	0	3
-708	14.42	12.30	0.00	0	3
-705	12.22	12.30	0.00	0	3
-702	10.02	12.30	0.00	0	3
-699	7.82	12.30	0.00	0	3
-696	5.67	12.30	0.00	0	3
-693	3.54	12.30	0.00	0	3
-690	1.42	12.30	0.00	0	3
-687	27.38	11.56	0.00	0	3
-684	25.25	11.56	0.00	0	3
-681	23.13	11.56	0.00	0	3
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-675	18.82	11.56	0.00	0	3
-672	16.62	11.56	0.00	0	3
-669	14.42	11.56	0.00	0	3
-666	12.22	11.56	0.00	0	3
-663	10.02	11.56	0.00	0	3
-660	7.82	11.56	0.00	0	3
-657	5.67	11.56	0.00	0	3
-654	3.54	11.56	0.00	0	3
-651	1.42	11.56	0.00	0	3
-648	27.38	10.81	0.00	0	3
-645	25.25	10.81	0.00	0	3
-642	23.13	10.81	0.00	0	3
-639	21.00	10.81	0.00	0	3
-636	18.82	10.81	0.00	0	3
-633	16.62	10.81	0.00	0	3
-630	14.42	10.81	0.00	0	3
-627	12.22	10.81	0.00	0	3
-624	10.02	10.81	0.00	0	3

-773	4.96	13.78	0.00	0	3
-770	2.84	13.78	0.00	0	3
-767	0.71	13.78	0.00	0	3
-764	26.67	13.04	0.00	0	3
-761	24.54	13.04	0.00	0	3
-758	22.42	13.04	0.00	0	3
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-752	18.09	13.04	0.00	0	3
-749	15.89	13.04	0.00	0	3
-746	13.69	13.04	0.00	0	3
-743	11.49	13.04	0.00	0	3
-740	9.29	13.04	0.00	0	3
-737	7.09	13.04	0.00	0	3
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-722	24.54	12.30	0.00	0	3
-719	22.42	12.30	0.00	0	3
-716	20.29	12.30	0.00	0	3
-713	18.09	12.30	0.00	0	3
-710	15.89	12.30	0.00	0	3
-707	13.69	12.30	0.00	0	3
-704	11.49	12.30	0.00	0	3
-701	9.29	12.30	0.00	0	3
-698	7.09	12.30	0.00	0	3
-695	4.96	12.30	0.00	0	3
-692	2.84	12.30	0.00	0	3
-689	0.71	12.30	0.00	0	3
-686	26.67	11.56	0.00	0	3
-683	24.54	11.56	0.00	0	3
-680	22.42	11.56	0.00	0	3
-677	20.29	11.56	0.00	0	3
-674	18.09	11.56	0.00	0	3
-671	15.89	11.56	0.00	0	3
-668	13.69	11.56	0.00	0	3
-665	11.49	11.56	0.00	0	3
-662	9.29	11.56	0.00	0	3
-659	7.09	11.56	0.00	0	3
-656	4.96	11.56	0.00	0	3
-653	2.84	11.56	0.00	0	3
-650	0.71	11.56	0.00	0	3
-647	26.67	10.81	0.00	0	3
-644	24.54	10.81	0.00	0	3
-641	22.42	10.81	0.00	0	3
-638	20.29	10.81	0.00	0	3
-635	18.09	10.81	0.00	0	3
-632	15.89	10.81	0.00	0	3
-629	13.69	10.81	0.00	0	3
-626	11.49	10.81	0.00	0	3
-623	9.29	10.81	0.00	0	3

-622	8.56	10.81	0.00	0	3
-619	6.38	10.81	0.00	0	3
-616	4.25	10.81	0.00	0	3
-613	2.13	10.81	0.00	0	3
-610	0.00	10.81	0.00	0	3
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-604	23.13	10.07	0.00	0	3
-601	21.00	10.07	0.00	0	3
-598	18.09	10.07	0.00	0	3
-595	15.89	10.07	0.00	0	3
-592	12.96	10.07	0.00	0	3
-589	10.76	10.07	0.00	0	3
-586	8.56	10.07	0.00	0	3
-583	5.67	10.07	0.00	0	3
-580	3.54	10.07	0.00	0	3
-577	1.42	10.07	0.00	0	3
-574	26.67	9.36	0.00	0	3
-571	24.54	9.36	0.00	0	3
-568	22.42	9.36	0.00	0	3
-565	20.29	9.36	0.00	0	3
-562	18.09	9.36	0.00	0	3
-559	15.89	9.36	0.00	0	3
-556	13.69	9.36	0.00	0	3
-553	11.49	9.36	0.00	0	3
-550	9.29	9.36	0.00	0	3
-547	7.09	9.36	0.00	0	3
-544	4.96	9.36	0.00	0	3
-541	2.84	9.36	0.00	0	3
-538	0.71	9.36	0.00	0	3
-535	26.67	8.64	0.00	0	3
-532	24.54	8.64	0.00	0	3
-529	22.42	8.64	0.00	0	3
-526	20.29	8.64	0.00	0	3
-523	18.09	8.64	0.00	0	3
-520	15.89	8.64	0.00	0	3
-517	13.69	8.64	0.00	0	3
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-511	9.29	8.64	0.00	0	3
-508	7.09	8.64	0.00	0	3
-505	4.96	8.64	0.00	0	3
-502	2.84	8.64	0.00	0	3
-499	0.71	8.64	0.00	0	3
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-493	24.54	7.93	0.00	0	3
-490	22.42	7.93	0.00	0	3
-487	20.29	7.93	0.00	0	3
-484	18.09	7.93	0.00	0	3
-481	15.89	7.93	0.00	0	3
-478	13.69	7.93	0.00	0	3
-475	11.49	7.93	0.00	0	3
-472	9.29	7.93	0.00	0	3

-621	7.82	10.81	0.00	0	3
-618	5.67	10.81	0.00	0	3
-615	3.54	10.81	0.00	0	3
-612	1.42	10.81	0.00	0	3
-609	26.67	10.07	0.00	0	3
-606	24.54	10.07	0.00	0	3
-603	22.42	10.07	0.00	0	3
-600	19.56	10.07	0.00	0	3
-597	17.36	10.07	0.00	0	3
-594	15.16	10.07	0.00	0	3
-591	12.22	10.07	0.00	0	3
-588	10.02	10.07	0.00	0	3
-585	7.82	10.07	0.00	0	3
-582	4.96	10.07	0.00	0	3
-579	2.84	10.07	0.00	0	3
-576	0.71	10.07	0.00	0	3
-573	25.96	9.36	0.00	0	3
-570	23.84	9.36	0.00	0	3
-567	21.71	9.36	0.00	0	3
-564	19.56	9.36	0.00	0	3
-561	17.36	9.36	0.00	0	3
-558	15.16	9.36	0.00	0	3
-555	12.96	9.36	0.00	0	3
-552	10.76	9.36	0.00	0	3
-549	8.56	9.36	0.00	0	3
-546	6.38	9.36	0.00	0	3
-543	4.25	9.36	0.00	0	3
-540	2.13	9.36	0.00	0	3
-537	0.00	9.36	0.00	0	3
-534	25.96	8.64	0.00	0	3
-531	23.84	8.64	0.00	0	3
-528	21.71	8.64	0.00	0	3
-525	19.56	8.64	0.00	0	3
-522	17.36	8.64	0.00	0	3
-519	15.16	8.64	0.00	0	3
-516	12.96	8.64	0.00	0	3
-513	10.76	8.64	0.00	0	3
-510	8.56	8.64	0.00	0	3
-507	6.38	8.64	0.00	0	3
-504	4.25	8.64	0.00	0	3
-501	2.13	8.64	0.00	0	3
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-495	25.96	7.93	0.00	0	3
-492	23.84	7.93	0.00	0	3
-489	21.71	7.93	0.00	0	3
-486	19.56	7.93	0.00	0	3
-483	17.36	7.93	0.00	0	3
-480	15.16	7.93	0.00	0	3
-477	12.96	7.93	0.00	0	3
-474	10.76	7.93	0.00	0	3
-471	8.56	7.93	0.00	0	3

-620	7.09	10.81	0.00	0	3
-617	4.96	10.81	0.00	0	3
-614	2.84	10.81	0.00	0	3
-611	0.71	10.81	0.00	0	3
-608	25.96	10.07	0.00	0	3
-605	23.84	10.07	0.00	0	3
-602	21.71	10.07	0.00	0	3
-599	18.82	10.07	0.00	0	3
-596	16.62	10.07	0.00	0	3
-593	14.42	10.07	0.00	0	3
-590	11.49	10.07	0.00	0	3
-587	9.29	10.07	0.00	0	3
-584	6.38	10.07	0.00	0	3
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-575	27.38	9.36	0.00	0	3
-572	25.25	9.36	0.00	0	3
-569	23.13	9.36	0.00	0	3
-566	21.00	9.36	0.00	0	3
-563	18.82	9.36	0.00	0	3
-560	16.62	9.36	0.00	0	3
-557	14.42	9.36	0.00	0	3
-554	12.22	9.36	0.00	0	3
-551	10.02	9.36	0.00	0	3
-548	7.82	9.36	0.00	0	3
-545	5.67	9.36	0.00	0	3
-542	3.54	9.36	0.00	0	3
-539	1.42	9.36	0.00	0	3
-536	27.38	8.64	0.00	0	3
-533	25.25	8.64	0.00	0	3
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-527	21.00	8.64	0.00	0	3
-524	18.82	8.64	0.00	0	3
-521	16.62	8.64	0.00	0	3
-518	14.42	8.64	0.00	0	3
-515	12.22	8.64	0.00	0	3
-512	10.02	8.64	0.00	0	3
-509	7.82	8.64	0.00	0	3
-506	5.67	8.64	0.00	0	3
-503	3.54	8.64	0.00	0	3
-500	1.42	8.64	0.00	0	3
-497	27.38	7.93	0.00	0	3
-494	25.25	7.93	0.00	0	3
-491	23.13	7.93	0.00	0	3
-488	21.00	7.93	0.00	0	3
-485	18.82	7.93	0.00	0	3
-482	16.62	7.93	0.00	0	3
-479	14.42	7.93	0.00	0	3
-476	12.22	7.93	0.00	0	3
-473	10.02	7.93	0.00	0	3
-470	7.82	7.93	0.00	0	3

-469	7.09	7.93	0.00	0	3	-468	6.38	7.93	0.00	0	3	-467	5.67	7.93	0.00	0	3
-466	4.96	7.93	0.00	0	3	-465	4.25	7.93	0.00	0	3	-464	3.54	7.93	0.00	0	3
-463	2.84	7.93	0.00	0	3	-462	2.13	7.93	0.00	0	3	-461	1.42	7.93	0.00	0	3
-460	0.71	7.93	0.00	0	3	-459	0.00	7.93	0.00	0	3	-458	27.38	7.21	0.00	0	3
-457	26.67	7.21	0.00	0	3	-456	25.96	7.21	0.00	0	3	-455	25.25	7.21	0.00	0	3
-454	24.54	7.21	0.00	0	3	-453	23.84	7.21	0.00	0	3	-452	23.13	7.21	0.00	0	3
-451	22.42	7.21	0.00	0	3	-450	21.71	7.21	0.00	0	3	-449	21.00	7.21	0.00	0	3
-448	20.29	7.21	0.00	0	3	-447	19.56	7.21	0.00	0	3	-446	18.82	7.21	0.00	0	3
-445	18.09	7.21	0.00	0	3	-444	17.36	7.21	0.00	0	3	-443	16.62	7.21	0.00	0	3
-442	15.89	7.21	0.00	0	3	-441	15.16	7.21	0.00	0	3	-440	14.42	7.21	0.00	0	3
-439	13.69	7.21	0.00	0	3	-438	12.96	7.21	0.00	0	3	-437	12.22	7.21	0.00	0	3
-436	11.49	7.21	0.00	0	3	-435	10.76	7.21	0.00	0	3	-434	10.02	7.21	0.00	0	3
-433	9.29	7.21	0.00	0	3	-432	8.56	7.21	0.00	0	3	-431	7.82	7.21	0.00	0	3
-430	7.09	7.21	0.00	0	3	-429	6.38	7.21	0.00	0	3	-428	5.67	7.21	0.00	0	3
-427	4.96	7.21	0.00	0	3	-426	4.25	7.21	0.00	0	3	-425	3.54	7.21	0.00	0	3
-424	2.84	7.21	0.00	0	3	-423	2.13	7.21	0.00	0	3	-422	1.42	7.21	0.00	0	3
-421	0.71	7.21	0.00	0	3	-420	0.00	7.21	0.00	0	3	-419	27.38	6.50	0.00	0	3
-418	26.67	6.50	0.00	0	3	-417	25.96	6.50	0.00	0	3	-416	25.25	6.50	0.00	0	3
-415	24.54	6.50	0.00	0	3	-414	23.84	6.50	0.00	0	3	-413	23.13	6.50	0.00	0	3
-412	22.42	6.50	0.00	0	3	-411	21.71	6.50	0.00	0	3	-410	21.00	6.50	0.00	0	3
-409	20.29	6.50	0.00	0	3	-408	19.56	6.50	0.00	0	3	-407	18.82	6.50	0.00	0	3
-406	18.09	6.50	0.00	0	3	-405	17.36	6.50	0.00	0	3	-404	16.62	6.50	0.00	0	3
-403	15.89	6.50	0.00	0	3	-402	15.16	6.50	0.00	0	3	-401	14.42	6.50	0.00	0	3
-400	13.69	6.50	0.00	0	3	-399	12.96	6.50	0.00	0	3	-398	12.22	6.50	0.00	0	3
-397	11.49	6.50	0.00	0	3	-396	10.76	6.50	0.00	0	3	-395	10.02	6.50	0.00	0	3
-394	9.29	6.50	0.00	0	3	-393	8.56	6.50	0.00	0	3	-392	7.82	6.50	0.00	0	3
-391	7.09	6.50	0.00	0	3	-390	6.38	6.50	0.00	0	3	-389	5.67	6.50	0.00	0	3
-388	4.96	6.50	0.00	0	3	-387	4.25	6.50	0.00	0	3	-386	3.54	6.50	0.00	0	3
-385	2.84	6.50	0.00	0	3	-384	2.13	6.50	0.00	0	3	-383	1.42	6.50	0.00	0	3
-382	0.71	6.50	0.00	0	3	-381	0.00	6.50	0.00	0	3	-380	27.38	5.78	0.00	0	3
-379	26.67	5.78	0.00	0	3	-378	25.96	5.78	0.00	0	3	-377	25.25	5.78	0.00	0	3
-376	24.54	5.78	0.00	0	3	-375	23.84	5.78	0.00	0	3	-374	23.13	5.78	0.00	0	3
-373	22.42	5.78	0.00	0	3	-372	21.71	5.78	0.00	0	3	-371	21.00	5.78	0.00	0	3
-370	20.29	5.78	0.00	0	3	-369	19.56	5.78	0.00	0	3	-368	18.82	5.78	0.00	0	3
-367	18.09	5.78	0.00	0	3	-366	17.36	5.78	0.00	0	3	-365	16.62	5.78	0.00	0	3
-364	15.89	5.78	0.00	0	3	-363	15.16	5.78	0.00	0	3	-362	14.42	5.78	0.00	0	3
-361	13.69	5.78	0.00	0	3	-360	12.96	5.78	0.00	0	3	-359	12.22	5.78	0.00	0	3
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-355	9.29	5.78	0.00	0	3	-354	8.56	5.78	0.00	0	3	-353	7.82	5.78	0.00	0	3
-352	7.09	5.78	0.00	0	3	-351	6.38	5.78	0.00	0	3	-350	5.67	5.78	0.00	0	3
-349	4.96	5.78	0.00	0	3	-348	4.25	5.78	0.00	0	3	-347	3.54	5.78	0.00	0	3
-346	2.84	5.78	0.00	0	3	-345	2.13	5.78	0.00	0	3	-344	1.42	5.78	0.00	0	3
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-340	25.96	5.07	0.00	0	3	-339	25.25	5.07	0.00	0	3	-338	24.54	5.07	0.00	0	3
-337	23.84	5.07	0.00	0	3	-336	23.13	5.07	0.00	0	3	-335	22.42	5.07	0.00	0	3
-334	21.71	5.07	0.00	0	3	-333	21.00	5.07	0.00	0	3	-332	19.56	5.07	0.00	0	3
-331	18.82	5.07	0.00	0	3	-330	18.09	5.07	0.00	0	3	-329	17.36	5.07	0.00	0	3
-328	16.62	5.07	0.00	0	3	-327	15.89	5.07	0.00	0	3	-326	15.16	5.07	0.00	0	3
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-316	6.38	5.07	0.00	0	3
-313	4.25	5.07	0.00	0	3
-310	2.13	5.07	0.00	0	3
-307	27.38	4.35	0.00	0	3
-304	25.25	4.35	0.00	0	3
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-298	21.00	4.35	0.00	0	3
-295	18.82	4.35	0.00	0	3
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-289	14.42	4.35	0.00	0	3
-286	12.22	4.35	0.00	0	3
-283	10.02	4.35	0.00	0	3
-280	7.82	4.35	0.00	0	3
-277	5.67	4.35	0.00	0	3
-274	3.54	4.35	0.00	0	3
-271	1.42	4.35	0.00	0	3
-268	27.38	3.62	0.00	0	3
-265	25.25	3.62	0.00	0	3
-262	23.13	3.62	0.00	0	3
-259	21.00	3.62	0.00	0	3
-256	18.82	3.62	0.00	0	3
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-238	5.67	3.62	0.00	0	3
-235	3.54	3.62	0.00	0	3
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-223	23.13	2.90	0.00	0	3
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-211	14.42	2.90	0.00	0	3
-208	12.22	2.90	0.00	0	3
-205	10.02	2.90	0.00	0	3
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-196	3.54	2.90	0.00	0	3
-193	1.42	2.90	0.00	0	3
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-243	9.29	3.62	0.00	0	3
-240	7.09	3.62	0.00	0	3
-237	4.96	3.62	0.00	0	3
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-204	9.29	2.90	0.00	0	3
-201	7.09	2.90	0.00	0	3
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-195	2.84	2.90	0.00	0	3
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-183	22.42	2.17	0.00	0	3
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-269	0.00	4.35	0.00	0	3
-266	25.96	3.62	0.00	0	3
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-251	15.16	3.62	0.00	0	3
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-242	8.56	3.62	0.00	0	3
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-230	0.00	3.62	0.00	0	3
-227	25.96	2.90	0.00	0	3
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-212	15.16	2.90	0.00	0	3
-209	12.96	2.90	0.00	0	3
-206	10.76	2.90	0.00	0	3
-203	8.56	2.90	0.00	0	3
-200	6.38	2.90	0.00	0	3
-197	4.25	2.90	0.00	0	3
-194	2.13	2.90	0.00	0	3
-191	0.00	2.90	0.00	0	3
-188	25.96	2.17	0.00	0	3
-185	23.84	2.17	0.00	0	3
-182	21.71	2.17	0.00	0	3
-179	19.56	2.17	0.00	0	3
-176	17.36	2.17	0.00	0	3
-173	15.16	2.17	0.00	0	3
-170	12.96	2.17	0.00	0	3
-167	10.76	2.17	0.00	0	3
-164	8.56	2.17	0.00	0	3

-163	7.82	2.17	0.00	0	3	-162	7.09	2.17	0.00	0	3	-161	6.38	2.17	0.00	0	3
-160	5.67	2.17	0.00	0	3	-159	4.96	2.17	0.00	0	3	-158	4.25	2.17	0.00	0	3
-157	3.54	2.17	0.00	0	3	-156	2.84	2.17	0.00	0	3	-155	2.13	2.17	0.00	0	3
-154	1.42	2.17	0.00	0	3	-153	0.71	2.17	0.00	0	3	-152	0.00	2.17	0.00	0	3
-151	27.38	1.45	0.00	0	3	-150	26.67	1.45	0.00	0	3	-149	25.96	1.45	0.00	0	3
-148	25.25	1.45	0.00	0	3	-147	24.54	1.45	0.00	0	3	-146	23.84	1.45	0.00	0	3
-145	23.13	1.45	0.00	0	3	-144	22.42	1.45	0.00	0	3	-143	21.71	1.45	0.00	0	3
-142	21.00	1.45	0.00	0	3	-141	20.29	1.45	0.00	0	3	-140	19.56	1.45	0.00	0	3
-139	18.82	1.45	0.00	0	3	-138	18.09	1.45	0.00	0	3	-137	17.36	1.45	0.00	0	3
-136	16.62	1.45	0.00	0	3	-135	15.89	1.45	0.00	0	3	-134	15.16	1.45	0.00	0	3
-133	14.42	1.45	0.00	0	3	-132	13.69	1.45	0.00	0	3	-131	12.96	1.45	0.00	0	3
-130	12.22	1.45	0.00	0	3	-129	11.49	1.45	0.00	0	3	-128	10.76	1.45	0.00	0	3
-127	10.02	1.45	0.00	0	3	-126	9.29	1.45	0.00	0	3	-125	8.56	1.45	0.00	0	3
-124	7.82	1.45	0.00	0	3	-123	7.09	1.45	0.00	0	3	-122	6.38	1.45	0.00	0	3
-121	5.67	1.45	0.00	0	3	-120	4.96	1.45	0.00	0	3	-119	4.25	1.45	0.00	0	3
-118	3.54	1.45	0.00	0	3	-117	2.84	1.45	0.00	0	3	-116	2.13	1.45	0.00	0	3
-115	1.42	1.45	0.00	0	3	-114	0.71	1.45	0.00	0	3	-113	0.00	1.45	0.00	0	3
-112	27.38	0.72	0.00	0	3	-111	26.67	0.72	0.00	0	3	-110	25.96	0.72	0.00	0	3
-109	25.25	0.72	0.00	0	3	-108	24.54	0.72	0.00	0	3	-107	23.84	0.72	0.00	0	3
-106	23.13	0.72	0.00	0	3	-105	22.42	0.72	0.00	0	3	-104	21.71	0.72	0.00	0	3
-103	21.00	0.72	0.00	0	3	-102	20.29	0.72	0.00	0	3	-101	19.56	0.72	0.00	0	3
-100	18.82	0.72	0.00	0	3	-99	18.09	0.72	0.00	0	3	-98	17.36	0.72	0.00	0	3
-97	16.62	0.72	0.00	0	3	-96	15.89	0.72	0.00	0	3	-95	15.16	0.72	0.00	0	3
-94	14.42	0.72	0.00	0	3	-93	13.69	0.72	0.00	0	3	-92	12.96	0.72	0.00	0	3
-91	12.22	0.72	0.00	0	3	-90	11.49	0.72	0.00	0	3	-89	10.76	0.72	0.00	0	3
-88	10.02	0.72	0.00	0	3	-87	9.29	0.72	0.00	0	3	-86	8.56	0.72	0.00	0	3
-85	7.82	0.72	0.00	0	3	-84	7.09	0.72	0.00	0	3	-83	6.38	0.72	0.00	0	3
-82	5.67	0.72	0.00	0	3	-81	4.96	0.72	0.00	0	3	-80	4.25	0.72	0.00	0	3
-79	3.54	0.72	0.00	0	3	-78	2.84	0.72	0.00	0	3	-77	2.13	0.72	0.00	0	3
-76	1.42	0.72	0.00	0	3	-75	0.71	0.72	0.00	0	3	-74	0.00	0.72	0.00	0	3
-73	26.67	0.00	0.00	0	3	-72	25.96	0.00	0.00	0	3	-71	25.25	0.00	0.00	0	3
-70	24.54	0.00	0.00	0	3	-69	23.84	0.00	0.00	0	3	-68	23.13	0.00	0.00	0	3
-67	22.42	0.00	0.00	0	3	-66	21.71	0.00	0.00	0	3	-65	21.00	0.00	0.00	0	3
-64	19.56	0.00	0.00	0	3	-63	18.82	0.00	0.00	0	3	-62	18.09	0.00	0.00	0	3
-61	17.36	0.00	0.00	0	3	-60	16.62	0.00	0.00	0	3	-59	15.89	0.00	0.00	0	3
-58	15.16	0.00	0.00	0	3	-57	14.42	0.00	0.00	0	3	-56	12.96	0.00	0.00	0	3
-55	12.22	0.00	0.00	0	3	-54	11.49	0.00	0.00	0	3	-53	10.76	0.00	0.00	0	3
-52	10.02	0.00	0.00	0	3	-51	9.29	0.00	0.00	0	3	-50	8.56	0.00	0.00	0	3
-49	7.82	0.00	0.00	0	3	-48	6.38	0.00	0.00	0	3	-47	5.67	0.00	0.00	0	3
-46	4.96	0.00	0.00	0	3	-45	4.25	0.00	0.00	0	3	-44	3.54	0.00	0.00	0	3
-43	2.84	0.00	0.00	0	3	-42	2.13	0.00	0.00	0	3	-41	1.42	0.00	0.00	0	3
-40	0.71	0.00	0.00	0	3	-39	27.38	-0.20	0.00	0	3	-38	26.67	-0.20	0.00	0	3
-37	25.96	-0.20	0.00	0	3	-36	25.25	-0.20	0.00	0	3	-35	24.54	-0.20	0.00	0	3
-34	23.84	-0.20	0.00	0	3	-33	23.13	-0.20	0.00	0	3	-32	22.42	-0.20	0.00	0	3
-31	21.71	-0.20	0.00	0	3	-30	21.00	-0.20	0.00	0	3	-29	20.29	-0.20	0.00	0	3
-28	19.56	-0.20	0.00	0	3	-27	18.82	-0.20	0.00	0	3	-26	18.09	-0.20	0.00	0	3
-25	17.36	-0.20	0.00	0	3	-24	16.62	-0.20	0.00	0	3	-23	15.89	-0.20	0.00	0	3
-22	15.16	-0.20	0.00	0	3	-21	14.42	-0.20	0.00	0	3	-20	13.69	-0.20	0.00	0	3
-19	12.96	-0.20	0.00	0	3	-18	12.22	-0.20	0.00	0	3	-17	11.49	-0.20	0.00	0	3
-16	10.76	-0.20	0.00	0	3	-15	10.02	-0.20	0.00	0	3	-14	9.29	-0.20	0.00	0	3
-13	8.56	-0.20	0.00	0	3	-12	7.82	-0.20	0.00	0	3	-11	7.09	-0.20	0.00	0	3

-10	6.38	-0.20	0.00	0	3	-9	5.67	-0.20	0.00	0	3	-8	4.96	-0.20	0.00	0	3
-7	4.25	-0.20	0.00	0	3	-6	3.54	-0.20	0.00	0	3	-5	2.84	-0.20	0.00	0	3
-4	2.13	-0.20	0.00	0	3	-3	1.42	-0.20	0.00	0	3	-2	0.71	-0.20	0.00	0	3
-1	0.00	-0.20	0.00	0	3	1	0.00	0.00	0.00	0	3	2	7.09	0.00	0.00	0	3
3	13.69	0.00	0.00	0	3	4	20.29	0.00	0.00	0	3	5	27.38	0.00	0.00	0	3
6	0.00	5.07	0.00	0	3	7	7.09	5.07	0.00	0	3	8	13.69	5.07	0.00	0	3
9	20.29	5.07	0.00	0	3	10	27.38	5.07	0.00	0	3	11	0.00	10.07	0.00	0	3
12	7.09	10.07	0.00	0	3	13	13.69	10.07	0.00	0	3	14	20.29	10.07	0.00	0	3
15	27.38	10.07	0.00	0	3	16	0.00	15.27	0.00	0	3	17	7.09	15.27	0.00	0	3
18	13.69	15.27	0.00	0	3	19	20.29	15.27	0.00	0	3	20	27.38	15.27	0.00	0	3
101	0.00	0.00	2.80	1	1	102	7.09	0.00	2.80	1	1	103	13.69	0.00	2.80	1	1
104	20.29	0.00	2.80	1	1	105	27.38	0.00	2.80	1	1	106	0.00	5.07	2.80	1	1
107	7.09	5.07	2.80	1	1	108	13.69	5.07	2.80	1	1	109	20.29	5.07	2.80	1	1
110	27.38	5.07	2.80	1	1	111	0.00	10.07	2.80	1	1	112	7.09	10.07	2.80	1	1
113	13.69	10.07	2.80	1	1	114	20.29	10.07	2.80	1	1	115	27.38	10.07	2.80	1	1
116	0.00	15.27	2.80	1	1	117	7.09	15.27	2.80	1	1	118	13.69	15.27	2.80	1	1
119	20.29	15.27	2.80	1	1	120	27.38	15.27	2.80	1	1	201	0.00	0.00	6.35	2	1
202	7.09	0.00	6.35	2	1	203	13.69	0.00	6.35	2	1	204	20.29	0.00	6.35	2	1
205	27.38	0.00	6.35	2	1	206	0.00	5.07	6.35	2	1	210	27.38	5.07	6.35	2	1
211	0.00	10.07	6.35	2	1	215	27.38	10.07	6.35	2	1	216	0.00	15.27	6.35	2	1
220	27.38	15.27	6.35	2	1	301	0.00	0.00	7.40	3	1	302	7.09	0.00	7.40	3	1
303	13.69	0.00	7.40	3	1	304	20.29	0.00	7.40	3	1	305	27.38	0.00	7.40	3	1
306	0.00	5.07	7.40	3	1	307	7.09	5.07	7.40	3	1	308	13.69	5.07	7.40	3	1
309	20.29	5.07	7.40	3	1	310	27.38	5.07	7.40	3	1	311	0.00	10.07	7.40	3	1
312	7.09	10.07	7.40	3	1	313	13.69	10.07	7.40	3	1	314	20.29	10.07	7.40	3	1
315	27.38	10.07	7.40	3	1	316	0.00	15.27	7.40	3	1	317	7.09	15.27	7.40	3	1
318	13.69	15.27	7.40	3	1	319	20.29	15.27	7.40	3	1	320	27.38	15.27	7.40	3	1

Elenco materiali

Simbologia

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

Mat.	Comm.	P <daN/mc>	E <daN/cmq>	G <daN/cmq>	ν	α
5	Calcestruzzo classe C25/30	2500	314472.00	142942.00	0.1	1.00E-05
7	Calcestruzzo classe C30/37	2500	330194.00	150088.00	0.1	1.00E-05

Elenco sezioni aste

Simbologia

B = Base
C = Numero del criterio di progetto
Comm. = Commento
Crit. C.F. = Criterio di progetto collegamento finale
Crit. C.I. = Criterio di progetto collegamento iniziale
H = Altezza
Ma = Numero del materiale
Mem. = Membratura
T = Trave
P = Pilastro
Sez. = Numero della sezione
Tipo = Tipologia
R = Rettangolare
Ver. = Verifica prevista
C = Cemento armato

Sez.	Comm.	Tipo	Mem.	Ver.	B <cm>	H <cm>	Ma	C	Crit. C.I.	Crit. C.F.
1	pil. 50x40	R	P	C	50.00	40.00	7	1		
2	tr. 60x30	R	T	C	60.00	30.00	7	4		

3	tr. 40x30	R	T	C	40.00	30.00	7	4		
4	tr. 50x30	R	T	C	50.00	30.00	7	4		
5	tr. 30x25	R	T	C	30.00	25.00	7	4		

Elenco vincoli aste

Simbologia

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

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

Elenco aste

Simbologia

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

Asta	N1	N2	Sez.	Va	Par.	Rot. <grad>	FF	Dy1 <cm>	Dy2 <cm>	Dz1 <cm>	Dz2 <cm>	Kt <daN/cmc>
1	1	101	1	1		0.00	11	0.00	0.00	0.00	0.00	
1	101	201	1	1		0.00	11	0.00	0.00	0.00	0.00	
1	201	301	1	1		0.00	11	0.00	0.00	0.00	0.00	
2	2	102	1	1		0.00	44	0.00	0.00	0.00	0.00	
2	102	202	1	1		0.00	44	0.00	0.00	0.00	0.00	
2	202	302	1	1		0.00	44	0.00	0.00	0.00	0.00	
3	3	103	1	1		0.00	44	0.00	0.00	0.00	0.00	
3	103	203	1	1		0.00	44	0.00	0.00	0.00	0.00	
3	203	303	1	1		0.00	44	0.00	0.00	0.00	0.00	
4	4	104	1	1		0.00	44	0.00	0.00	0.00	0.00	
4	104	204	1	1		0.00	44	0.00	0.00	0.00	0.00	
4	204	304	1	1		0.00	44	0.00	0.00	0.00	0.00	
5	5	105	1	1		0.00	77	0.00	0.00	0.00	0.00	
5	105	205	1	1		0.00	77	0.00	0.00	0.00	0.00	
5	205	305	1	1		0.00	77	0.00	0.00	0.00	0.00	
6	6	106	1	1		0.00	33	0.00	0.00	0.00	0.00	
6	106	206	1	1		0.00	33	0.00	0.00	0.00	0.00	
6	206	306	1	1		0.00	33	0.00	0.00	0.00	0.00	
7	7	107	1	1		0.00	66	0.00	0.00	0.00	0.00	
7	107	307	1	1		0.00	66	0.00	0.00	0.00	0.00	
8	8	108	1	1		0.00	66	0.00	0.00	0.00	0.00	
8	108	308	1	1		0.00	66	0.00	0.00	0.00	0.00	
9	9	109	1	1		0.00	66	0.00	0.00	0.00	0.00	
9	109	309	1	1		0.00	66	0.00	0.00	0.00	0.00	
10	10	110	1	1		0.00	99	0.00	0.00	0.00	0.00	
10	110	210	1	1		0.00	99	0.00	0.00	0.00	0.00	
10	210	310	1	1		0.00	99	0.00	0.00	0.00	0.00	
11	11	111	1	1		0.00	11	0.00	0.00	0.00	0.00	
11	111	211	1	1		0.00	11	0.00	0.00	0.00	0.00	
11	211	311	1	1		0.00	11	0.00	0.00	0.00	0.00	
12	12	112	1	1		0.00	44	0.00	0.00	0.00	0.00	
12	112	312	1	1		0.00	44	0.00	0.00	0.00	0.00	
13	13	113	1	1		0.00	44	0.00	0.00	0.00	0.00	
13	113	313	1	1		0.00	44	0.00	0.00	0.00	0.00	

14	14	114	1	1		0.00	44	0.00	0.00	0.00	0.00	
14	114	314	1	1		0.00	44	0.00	0.00	0.00	0.00	
15	15	115	1	1		0.00	77	0.00	0.00	0.00	0.00	
15	115	215	1	1		0.00	77	0.00	0.00	0.00	0.00	
15	215	315	1	1		0.00	77	0.00	0.00	0.00	0.00	
16	16	116	1	1		0.00	33	0.00	0.00	0.00	0.00	
16	116	216	1	1		0.00	33	0.00	0.00	0.00	0.00	
16	216	316	1	1		0.00	33	0.00	0.00	0.00	0.00	
17	17	117	1	1		0.00	66	0.00	0.00	0.00	0.00	
17	117	317	1	1		0.00	66	0.00	0.00	0.00	0.00	
18	18	118	1	1		0.00	66	0.00	0.00	0.00	0.00	
18	118	318	1	1		0.00	66	0.00	0.00	0.00	0.00	
19	19	119	1	1		0.00	66	0.00	0.00	0.00	0.00	
19	119	319	1	1		0.00	66	0.00	0.00	0.00	0.00	
20	20	120	1	1		0.00	99	0.00	0.00	0.00	0.00	
20	120	220	1	1		0.00	99	0.00	0.00	0.00	0.00	
20	220	320	1	1		0.00	99	0.00	0.00	0.00	0.00	
101	102	101	3	1		0.00	33	0.00	0.00	0.00	0.00	
101	103	102	3	1		0.00	33	0.00	0.00	0.00	0.00	
101	104	103	3	1		0.00	33	0.00	0.00	0.00	0.00	
101	105	104	3	1		0.00	33	0.00	0.00	0.00	0.00	
102	106	107	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
102	107	108	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
102	108	109	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
102	109	110	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
103	112	111	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
103	113	112	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
103	114	113	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
103	115	114	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
104	116	117	3	1		0.00	33	0.00	0.00	0.00	0.00	
104	117	118	3	1		0.00	33	0.00	0.00	0.00	0.00	
104	118	119	3	1		0.00	33	0.00	0.00	0.00	0.00	
104	119	120	3	1		0.00	33	0.00	0.00	0.00	0.00	
105	101	106	4	1		0.00	33	0.00	0.00	0.00	0.00	
105	106	111	4	1		0.00	33	0.00	0.00	0.00	0.00	
105	111	116	4	1		0.00	33	0.00	0.00	0.00	0.00	
106	102	107	2	1		0.00	22	0.00	0.00	0.00	0.00	
106	107	112	2	1		0.00	22	0.00	0.00	0.00	0.00	
106	112	117	2	1		0.00	22	0.00	0.00	0.00	0.00	
107	103	108	2	1		0.00	22	0.00	0.00	0.00	0.00	
107	108	113	2	1		0.00	22	0.00	0.00	0.00	0.00	
107	113	118	2	1		0.00	22	0.00	0.00	0.00	0.00	
108	104	109	2	1		0.00	22	0.00	0.00	0.00	0.00	
108	109	114	2	1		0.00	22	0.00	0.00	0.00	0.00	
108	114	119	2	1		0.00	22	0.00	0.00	0.00	0.00	
109	110	105	4	1		0.00	33	0.00	0.00	0.00	0.00	
109	115	110	4	1		0.00	33	0.00	0.00	0.00	0.00	
109	120	115	4	1		0.00	33	0.00	0.00	0.00	0.00	
201	202	201	5	1		0.00	33	0.00	0.00	0.00	0.00	
201	203	202	5	1		0.00	33	0.00	0.00	0.00	0.00	
201	204	203	5	1		0.00	33	0.00	0.00	0.00	0.00	
201	205	204	5	1		0.00	33	0.00	0.00	0.00	0.00	
205	201	206	5	1		0.00	33	0.00	0.00	0.00	0.00	
205	206	211	5	1		0.00	33	0.00	0.00	0.00	0.00	
205	211	216	5	1		0.00	33	0.00	0.00	0.00	0.00	
209	210	205	5	1		0.00	33	0.00	0.00	0.00	0.00	
209	215	210	5	1		0.00	33	0.00	0.00	0.00	0.00	
209	220	215	5	1		0.00	33	0.00	0.00	0.00	0.00	
301	302	301	3	1		0.00	33	0.00	0.00	0.00	0.00	
301	303	302	3	1		0.00	33	0.00	0.00	0.00	0.00	
301	304	303	3	1		0.00	33	0.00	0.00	0.00	0.00	
301	305	304	3	1		0.00	33	0.00	0.00	0.00	0.00	
302	306	307	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
302	307	308	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
302	308	309	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
302	309	310	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
303	312	311	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
303	313	312	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
303	314	313	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
303	315	314	3	1		0.00	33	-5.00	-5.00	0.00	0.00	
304	316	317	3	1		0.00	33	0.00	0.00	0.00	0.00	
304	317	318	3	1		0.00	33	0.00	0.00	0.00	0.00	
304	318	319	3	1		0.00	33	0.00	0.00	0.00	0.00	
304	319	320	3	1		0.00	33	0.00	0.00	0.00	0.00	
305	301	306	4	1		0.00	33	0.00	0.00	0.00	0.00	
305	306	311	4	1		0.00	33	0.00	0.00	0.00	0.00	
305	311	316	4	1		0.00	33	0.00	0.00	0.00	0.00	
306	302	307	4	1		0.00	22	0.00	0.00	0.00	0.00	
306	307	312	4	1		0.00	22	0.00	0.00	0.00	0.00	
306	312	317	4	1		0.00	22	0.00	0.00	0.00	0.00	
307	303	308	4	1		0.00	22	0.00	0.00	0.00	0.00	
307	308	313	4	1		0.00	22	0.00	0.00	0.00	0.00	
307	313	318	4	1		0.00	22	0.00	0.00	0.00	0.00	
308	304	309	4	1		0.00	22	0.00	0.00	0.00	0.00	
308	309	314	4	1		0.00	22	0.00	0.00	0.00	0.00	
308	314	319	4	1		0.00	22	0.00	0.00	0.00	0.00	

309	310	305	4	1		0.00	33	0.00	0.00	0.00	0.00	
309	315	310	4	1		0.00	33	0.00	0.00	0.00	0.00	
309	320	315	4	1		0.00	33	0.00	0.00	0.00	0.00	

Elenco tipi elementi bidimensionali

Simbologia

Ang. att. = Angolo di attrito
Ang. dil. = Angolo di dilatanza
Coes. = Coesione
Comm. = Commento
Crit. = Numero del criterio di progetto
DP = Drucker-Prager
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
Mat. = Numero del materiale
Spess. = Spessore
Tb = Numero del tipo muro/elemento bidimensionale
Tipo = Tipologia
F = Membranale e Flessionale
M = Membranale
W-RC = Winkler resistente solo a compressione
W-RTC = Winkler resistente a trazione e a compressione
Uso = Utilizzo
S = Soletta/Platea

Tb	Comm.	Tipo	Uso	Spess. <cm>	Kt <daN/cmc>	DP	Ang. att. <grad>	Coes. <daN/mq>	Ang. dil. <grad>	Crit.	Mat.
1	platea 40cm	W-RTC	S	40.00	1.20	N	0.00	0.00	0.00	1	5

Elenco elementi bidimensionali

Simbologia

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

Bid.	Tb	FF	Dy1 <cm>	Dy2 <cm>	Kt <daN/cmc>	NN
602	1	33	0.00	0.00	1.20	-887 -888 17 -852
602	1	33	0.00	0.00	1.20	-886 -887 -852 -851
602	1	33	0.00	0.00	1.20	-885 -886 -851 -850
602	1	33	0.00	0.00	1.20	-884 -885 -850 -849
602	1	33	0.00	0.00	1.20	-883 -884 -849 -848
602	1	33	0.00	0.00	1.20	-882 -883 -848 -847
602	1	33	0.00	0.00	1.20	-881 -882 -847 -846
602	1	33	0.00	0.00	1.20	-880 -881 -846 -845
602	1	33	0.00	0.00	1.20	-879 -880 -845 -844
602	1	33	0.00	0.00	1.20	-814 -852 17 -815
602	1	33	0.00	0.00	1.20	-813 -851 -852 -814
602	1	33	0.00	0.00	1.20	-812 -850 -851 -813
602	1	33	0.00	0.00	1.20	-811 -849 -850 -812
602	1	33	0.00	0.00	1.20	-810 -848 -849 -811
602	1	33	0.00	0.00	1.20	-809 -847 -848 -810
602	1	33	0.00	0.00	1.20	-808 -846 -847 -809
602	1	33	0.00	0.00	1.20	-807 -845 -846 -808
602	1	33	0.00	0.00	1.20	-806 -844 -845 -807
602	1	33	0.00	0.00	1.20	-805 16 -844 -806
602	1	33	0.00	0.00	1.20	-775 -814 -815 -776
602	1	33	0.00	0.00	1.20	-774 -813 -814 -775
602	1	33	0.00	0.00	1.20	-773 -812 -813 -774
602	1	33	0.00	0.00	1.20	-772 -811 -812 -773
602	1	33	0.00	0.00	1.20	-771 -810 -811 -772
602	1	33	0.00	0.00	1.20	-770 -809 -810 -771
602	1	33	0.00	0.00	1.20	-769 -808 -809 -770
602	1	33	0.00	0.00	1.20	-768 -807 -808 -769
602	1	33	0.00	0.00	1.20	-767 -806 -807 -768
602	1	33	0.00	0.00	1.20	-766 -805 -806 -767
602	1	33	0.00	0.00	1.20	-736 -775 -776 -737
602	1	33	0.00	0.00	1.20	-735 -774 -775 -736
602	1	33	0.00	0.00	1.20	-734 -773 -774 -735
602	1	33	0.00	0.00	1.20	-733 -772 -773 -734
602	1	33	0.00	0.00	1.20	-732 -771 -772 -733
602	1	33	0.00	0.00	1.20	-731 -770 -771 -732
602	1	33	0.00	0.00	1.20	-730 -769 -770 -731
602	1	33	0.00	0.00	1.20	-729 -768 -769 -730
602	1	33	0.00	0.00	1.20	-728 -767 -768 -729
602	1	33	0.00	0.00	1.20	-727 -766 -767 -728
602	1	33	0.00	0.00	1.20	-697 -736 -737 -698
602	1	33	0.00	0.00	1.20	-696 -735 -736 -697
602	1	33	0.00	0.00	1.20	-695 -734 -735 -696
602	1	33	0.00	0.00	1.20	-694 -733 -734 -695
602	1	33	0.00	0.00	1.20	-693 -732 -733 -694

602	1	33	0.00	0.00	1.20	-692 -731 -732 -693
602	1	33	0.00	0.00	1.20	-691 -730 -731 -692
602	1	33	0.00	0.00	1.20	-690 -729 -730 -691
602	1	33	0.00	0.00	1.20	-689 -728 -729 -690
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602	1	33	0.00	0.00	1.20	-658 -697 -698 -659
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602	1	33	0.00	0.00	1.20	-655 -694 -695 -656
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602	1	33	0.00	0.00	1.20	-584 -619 -620 12
602	1	33	0.00	0.00	1.20	-583 -618 -619 -584
602	1	33	0.00	0.00	1.20	-582 -617 -618 -583
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602	1	33	0.00	0.00	1.20	-576 -611 -612 -577
602	1	33	0.00	0.00	1.20	-351 -352 7 -316
602	1	33	0.00	0.00	1.20	-390 -391 -352 -351
602	1	33	0.00	0.00	1.20	-429 -430 -391 -390
602	1	33	0.00	0.00	1.20	-468 -469 -430 -429
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602	1	33	0.00	0.00	1.20	-466 -467 -428 -427
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602	1	33	0.00	0.00	1.20	-344 -345 -310 -309
602	1	33	0.00	0.00	1.20	-383 -384 -345 -344
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602	1	33	0.00	0.00	1.20	-537 -538 -499 -498
602	1	33	0.00	0.00	1.20	-278 -316 7 -279
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602	1	33	0.00	0.00	1.20	-276 -314 -315 -277
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602	1	33	0.00	0.00	1.20	-272 -310 -311 -273
602	1	33	0.00	0.00	1.20	-271 -309 -310 -272
602	1	33	0.00	0.00	1.20	-270 -308 -309 -271
602	1	33	0.00	0.00	1.20	-269 6 -308 -270
602	1	33	0.00	0.00	1.20	-239 -278 -279 -240
602	1	33	0.00	0.00	1.20	-238 -277 -278 -239
602	1	33	0.00	0.00	1.20	-237 -276 -277 -238
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602	1	33	0.00	0.00	1.20	-234 -273 -274 -235
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602	1	33	0.00	0.00	1.20	-230 -269 -270 -231
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602	1	33	0.00	0.00	1.20	-199 -238 -239 -200
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602	1	33	0.00	0.00	1.20	-160 -199 -200 -161
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602	1	33	0.00	0.00	1.20	-121 -160 -161 -122
602	1	33	0.00	0.00	1.20	-120 -159 -160 -121
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602	1	33	0.00	0.00	1.20	-76 -115 -116 -77
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602	1	33	0.00	0.00	1.20	-279 7 -317 -280
602	1	33	0.00	0.00	1.20	-248 -287 -288 -249
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602	1	33	0.00	0.00	1.20	-476 -515 -516 -477
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602	1	33	0.00	0.00	1.20	-469 -508 -509 -470
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602	1	33	0.00	0.00	1.20	-396 -435 -436 -397
602	1	33	0.00	0.00	1.20	-395 -434 -435 -396
602	1	33	0.00	0.00	1.20	-394 -433 -434 -395
602	1	33	0.00	0.00	1.20	-393 -432 -433 -394
602	1	33	0.00	0.00	1.20	-392 -431 -432 -393
602	1	33	0.00	0.00	1.20	-391 -430 -431 -392
602	1	33	0.00	0.00	1.20	-360 -399 -400 -361
602	1	33	0.00	0.00	1.20	-359 -398 -399 -360
602	1	33	0.00	0.00	1.20	-358 -397 -398 -359
602	1	33	0.00	0.00	1.20	-357 -396 -397 -358
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602	1	33	0.00	0.00	1.20	-354 -393 -394 -355
602	1	33	0.00	0.00	1.20	-353 -392 -393 -354
602	1	33	0.00	0.00	1.20	-352 -391 -392 -353
602	1	33	0.00	0.00	1.20	-324 -360 -361 8
602	1	33	0.00	0.00	1.20	-323 -359 -360 -324
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602	1	33	0.00	0.00	1.20	-321 -357 -358 -322
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602	1	33	0.00	0.00	1.20	-317 -353 -354 -318
602	1	33	0.00	0.00	1.20	-621 -585 12 -620
602	1	33	0.00	0.00	1.20	-622 -586 -585 -621
602	1	33	0.00	0.00	1.20	-623 -587 -586 -622
602	1	33	0.00	0.00	1.20	-624 -588 -587 -623
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602	1	33	0.00	0.00	1.20	-626 -590 -589 -625
602	1	33	0.00	0.00	1.20	-627 -591 -590 -626
602	1	33	0.00	0.00	1.20	-628 -592 -591 -627
602	1	33	0.00	0.00	1.20	-629 13 -592 -628
602	1	33	0.00	0.00	1.20	-660 -621 -620 -659
602	1	33	0.00	0.00	1.20	-661 -622 -621 -660
602	1	33	0.00	0.00	1.20	-662 -623 -622 -661
602	1	33	0.00	0.00	1.20	-663 -624 -623 -662
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602	1	33	0.00	0.00	1.20	-666 -627 -626 -665
602	1	33	0.00	0.00	1.20	-667 -628 -627 -666
602	1	33	0.00	0.00	1.20	-668 -629 -628 -667
602	1	33	0.00	0.00	1.20	-699 -660 -659 -698
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602	1	33	0.00	0.00	1.20	-706 -667 -666 -705
602	1	33	0.00	0.00	1.20	-707 -668 -667 -706
602	1	33	0.00	0.00	1.20	-738 -699 -698 -737
602	1	33	0.00	0.00	1.20	-739 -700 -699 -738
602	1	33	0.00	0.00	1.20	-740 -701 -700 -739
602	1	33	0.00	0.00	1.20	-741 -702 -701 -740

602	1	33	0.00	0.00	1.20	-742 -703 -702 -741
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602	1	33	0.00	0.00	1.20	-744 -705 -704 -743
602	1	33	0.00	0.00	1.20	-745 -706 -705 -744
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602	1	33	0.00	0.00	1.20	-780 -741 -740 -779
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602	1	33	0.00	0.00	1.20	-783 -744 -743 -782
602	1	33	0.00	0.00	1.20	-784 -745 -744 -783
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602	1	33	0.00	0.00	1.20	-816 -777 -776 -815
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602	1	33	0.00	0.00	1.20	-820 -781 -780 -819
602	1	33	0.00	0.00	1.20	-821 -782 -781 -820
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602	1	33	0.00	0.00	1.20	-823 -784 -783 -822
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602	1	33	0.00	0.00	1.20	-853 -816 -815 17
602	1	33	0.00	0.00	1.20	-854 -817 -816 -853
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602	1	33	0.00	0.00	1.20	-856 -819 -818 -855
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602	1	33	0.00	0.00	1.20	-859 -822 -821 -858
602	1	33	0.00	0.00	1.20	-860 -823 -822 -859
602	1	33	0.00	0.00	1.20	-860 -896 -897 18
602	1	33	0.00	0.00	1.20	-859 -895 -896 -860
602	1	33	0.00	0.00	1.20	-858 -894 -895 -859
602	1	33	0.00	0.00	1.20	-857 -893 -894 -858
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602	1	33	0.00	0.00	1.20	-855 -891 -892 -856
602	1	33	0.00	0.00	1.20	-854 -890 -891 -855
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602	1	33	0.00	0.00	1.20	-868 -905 -906 19
602	1	33	0.00	0.00	1.20	-867 -904 -905 -868
602	1	33	0.00	0.00	1.20	-866 -903 -904 -867
602	1	33	0.00	0.00	1.20	-865 -902 -903 -866
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602	1	33	0.00	0.00	1.20	-862 -899 -900 -863
602	1	33	0.00	0.00	1.20	-861 -898 -899 -862
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602	1	33	0.00	0.00	1.20	-631 -594 -593 -630
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602	1	33	0.00	0.00	1.20	-634 -597 -596 -633
602	1	33	0.00	0.00	1.20	-635 -598 -597 -634
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602	1	33	0.00	0.00	1.20	-637 -600 -599 -636
602	1	33	0.00	0.00	1.20	-638 14 -600 -637
602	1	33	0.00	0.00	1.20	-669 -630 -629 -668
602	1	33	0.00	0.00	1.20	-670 -631 -630 -669
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602	1	33	0.00	0.00	1.20	-708 -669 -668 -707
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602	1	33	0.00	0.00	1.20	-716 -677 -676 -715
602	1	33	0.00	0.00	1.20	-747 -708 -707 -746
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602	1	33	0.00	0.00	1.20	-752 -713 -712 -751
602	1	33	0.00	0.00	1.20	-753 -714 -713 -752
602	1	33	0.00	0.00	1.20	-754 -715 -714 -753
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602	1	33	0.00	0.00	1.20	-788 -749 -748 -787

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602	1	33	0.00	0.00	1.20	-790 -751 -750 -789
602	1	33	0.00	0.00	1.20	-791 -752 -751 -790
602	1	33	0.00	0.00	1.20	-792 -753 -752 -791
602	1	33	0.00	0.00	1.20	-793 -754 -753 -792
602	1	33	0.00	0.00	1.20	-794 -755 -754 -793
602	1	33	0.00	0.00	1.20	-825 -786 -785 -824
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602	1	33	0.00	0.00	1.20	-828 -789 -788 -827
602	1	33	0.00	0.00	1.20	-829 -790 -789 -828
602	1	33	0.00	0.00	1.20	-830 -791 -790 -829
602	1	33	0.00	0.00	1.20	-831 -792 -791 -830
602	1	33	0.00	0.00	1.20	-832 -793 -792 -831
602	1	33	0.00	0.00	1.20	-833 -794 -793 -832
602	1	33	0.00	0.00	1.20	-861 -825 -824 18
602	1	33	0.00	0.00	1.20	-862 -826 -825 -861
602	1	33	0.00	0.00	1.20	-863 -827 -826 -862
602	1	33	0.00	0.00	1.20	-864 -828 -827 -863
602	1	33	0.00	0.00	1.20	-865 -829 -828 -864
602	1	33	0.00	0.00	1.20	-866 -830 -829 -865
602	1	33	0.00	0.00	1.20	-867 -831 -830 -866
602	1	33	0.00	0.00	1.20	-868 -832 -831 -867
602	1	33	0.00	0.00	1.20	-564 -600 14 -565
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602	1	33	0.00	0.00	1.20	-478 -517 -518 -479
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602	1	33	0.00	0.00	1.20	-439 -478 -479 -440
602	1	33	0.00	0.00	1.20	-408 -447 -448 -409
602	1	33	0.00	0.00	1.20	-407 -446 -447 -408
602	1	33	0.00	0.00	1.20	-406 -445 -446 -407
602	1	33	0.00	0.00	1.20	-405 -444 -445 -406
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602	1	33	0.00	0.00	1.20	-401 -440 -441 -402
602	1	33	0.00	0.00	1.20	-400 -439 -440 -401
602	1	33	0.00	0.00	1.20	-369 -408 -409 -370
602	1	33	0.00	0.00	1.20	-368 -407 -408 -369
602	1	33	0.00	0.00	1.20	-367 -406 -407 -368
602	1	33	0.00	0.00	1.20	-366 -405 -406 -367
602	1	33	0.00	0.00	1.20	-365 -404 -405 -366
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602	1	33	0.00	0.00	1.20	-361 -400 -401 -362
602	1	33	0.00	0.00	1.20	-332 -369 -370 9
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602	1	33	0.00	0.00	1.20	-330 -367 -368 -331
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602	1	33	0.00	0.00	1.20	-328 -365 -366 -329
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602	1	33	0.00	0.00	1.20	-326 -363 -364 -327
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602	1	33	0.00	0.00	1.20	-296 -332 9 -297

602	1	33	0.00	0.00	1.20	-295 -331 -332 -296
602	1	33	0.00	0.00	1.20	-294 -330 -331 -295
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602	1	33	0.00	0.00	1.20	-292 -328 -329 -293
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602	1	33	0.00	0.00	1.20	-249 -288 -289 -250
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602	1	33	0.00	0.00	1.20	-217 -256 -257 -218
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602	1	33	0.00	0.00	1.20	-210 -249 -250 -211
602	1	33	0.00	0.00	1.20	-179 -218 -219 -180
602	1	33	0.00	0.00	1.20	-178 -217 -218 -179
602	1	33	0.00	0.00	1.20	-177 -216 -217 -178
602	1	33	0.00	0.00	1.20	-176 -215 -216 -177
602	1	33	0.00	0.00	1.20	-175 -214 -215 -176
602	1	33	0.00	0.00	1.20	-174 -213 -214 -175
602	1	33	0.00	0.00	1.20	-173 -212 -213 -174
602	1	33	0.00	0.00	1.20	-172 -211 -212 -173
602	1	33	0.00	0.00	1.20	-171 -210 -211 -172
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602	1	33	0.00	0.00	1.20	-136 -175 -176 -137
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602	1	33	0.00	0.00	1.20	-132 -171 -172 -133
602	1	33	0.00	0.00	1.20	-101 -140 -141 -102
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602	1	33	0.00	0.00	1.20	-62 -99 -100 -63
602	1	33	0.00	0.00	1.20	-61 -98 -99 -62
602	1	33	0.00	0.00	1.20	-60 -97 -98 -61
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602	1	33	0.00	0.00	1.20	-57 -94 -95 -58
602	1	33	0.00	0.00	1.20	-28 -64 4 -29
602	1	33	0.00	0.00	1.20	-27 -63 -64 -28
602	1	33	0.00	0.00	1.20	-26 -62 -63 -27
602	1	33	0.00	0.00	1.20	-25 -61 -62 -26
602	1	33	0.00	0.00	1.20	-24 -60 -61 -25
602	1	33	0.00	0.00	1.20	-23 -59 -60 -24
602	1	33	0.00	0.00	1.20	-22 -58 -59 -23
602	1	33	0.00	0.00	1.20	-21 -57 -58 -22
602	1	33	0.00	0.00	1.20	-65 -30 -29 4
602	1	33	0.00	0.00	1.20	-66 -31 -30 -65
602	1	33	0.00	0.00	1.20	-67 -32 -31 -66
602	1	33	0.00	0.00	1.20	-68 -33 -32 -67
602	1	33	0.00	0.00	1.20	-69 -34 -33 -68
602	1	33	0.00	0.00	1.20	-70 -35 -34 -69
602	1	33	0.00	0.00	1.20	-71 -36 -35 -70
602	1	33	0.00	0.00	1.20	-72 -37 -36 -71
602	1	33	0.00	0.00	1.20	-73 -38 -37 -72
602	1	33	0.00	0.00	1.20	-306 -341 10 -307
602	1	33	0.00	0.00	1.20	-305 -340 -341 -306
602	1	33	0.00	0.00	1.20	-304 -339 -340 -305
602	1	33	0.00	0.00	1.20	-303 -338 -339 -304
602	1	33	0.00	0.00	1.20	-302 -337 -338 -303
602	1	33	0.00	0.00	1.20	-301 -336 -337 -302
602	1	33	0.00	0.00	1.20	-300 -335 -336 -301
602	1	33	0.00	0.00	1.20	-299 -334 -335 -300

602	1	33	0.00	0.00	1.20	-298 -333 -334 -299
602	1	33	0.00	0.00	1.20	-297 9 -333 -298
602	1	33	0.00	0.00	1.20	-267 -306 -307 -268
602	1	33	0.00	0.00	1.20	-266 -305 -306 -267
602	1	33	0.00	0.00	1.20	-265 -304 -305 -266
602	1	33	0.00	0.00	1.20	-264 -303 -304 -265
602	1	33	0.00	0.00	1.20	-263 -302 -303 -264
602	1	33	0.00	0.00	1.20	-262 -301 -302 -263
602	1	33	0.00	0.00	1.20	-261 -300 -301 -262
602	1	33	0.00	0.00	1.20	-260 -299 -300 -261
602	1	33	0.00	0.00	1.20	-259 -298 -299 -260
602	1	33	0.00	0.00	1.20	-258 -297 -298 -259
602	1	33	0.00	0.00	1.20	-228 -267 -268 -229
602	1	33	0.00	0.00	1.20	-227 -266 -267 -228
602	1	33	0.00	0.00	1.20	-226 -265 -266 -227
602	1	33	0.00	0.00	1.20	-225 -264 -265 -226
602	1	33	0.00	0.00	1.20	-224 -263 -264 -225
602	1	33	0.00	0.00	1.20	-223 -262 -263 -224
602	1	33	0.00	0.00	1.20	-222 -261 -262 -223
602	1	33	0.00	0.00	1.20	-221 -260 -261 -222
602	1	33	0.00	0.00	1.20	-220 -259 -260 -221
602	1	33	0.00	0.00	1.20	-219 -258 -259 -220
602	1	33	0.00	0.00	1.20	-189 -228 -229 -190
602	1	33	0.00	0.00	1.20	-188 -227 -228 -189
602	1	33	0.00	0.00	1.20	-187 -226 -227 -188
602	1	33	0.00	0.00	1.20	-186 -225 -226 -187
602	1	33	0.00	0.00	1.20	-185 -224 -225 -186
602	1	33	0.00	0.00	1.20	-184 -223 -224 -185
602	1	33	0.00	0.00	1.20	-183 -222 -223 -184
602	1	33	0.00	0.00	1.20	-182 -221 -222 -183
602	1	33	0.00	0.00	1.20	-181 -220 -221 -182
602	1	33	0.00	0.00	1.20	-180 -219 -220 -181
602	1	33	0.00	0.00	1.20	-150 -189 -190 -151
602	1	33	0.00	0.00	1.20	-149 -188 -189 -150
602	1	33	0.00	0.00	1.20	-148 -187 -188 -149
602	1	33	0.00	0.00	1.20	-147 -186 -187 -148
602	1	33	0.00	0.00	1.20	-146 -185 -186 -147
602	1	33	0.00	0.00	1.20	-145 -184 -185 -146
602	1	33	0.00	0.00	1.20	-144 -183 -184 -145
602	1	33	0.00	0.00	1.20	-143 -182 -183 -144
602	1	33	0.00	0.00	1.20	-142 -181 -182 -143
602	1	33	0.00	0.00	1.20	-141 -180 -181 -142
602	1	33	0.00	0.00	1.20	-111 -150 -151 -112
602	1	33	0.00	0.00	1.20	-110 -149 -150 -111
602	1	33	0.00	0.00	1.20	-109 -148 -149 -110
602	1	33	0.00	0.00	1.20	-108 -147 -148 -109
602	1	33	0.00	0.00	1.20	-107 -146 -147 -108
602	1	33	0.00	0.00	1.20	-106 -145 -146 -107
602	1	33	0.00	0.00	1.20	-105 -144 -145 -106
602	1	33	0.00	0.00	1.20	-104 -143 -144 -105
602	1	33	0.00	0.00	1.20	-103 -142 -143 -104
602	1	33	0.00	0.00	1.20	-102 -141 -142 -103
602	1	33	0.00	0.00	1.20	-73 -111 -112 5
602	1	33	0.00	0.00	1.20	-72 -110 -111 -73
602	1	33	0.00	0.00	1.20	-71 -109 -110 -72
602	1	33	0.00	0.00	1.20	-70 -108 -109 -71
602	1	33	0.00	0.00	1.20	-69 -107 -108 -70
602	1	33	0.00	0.00	1.20	-68 -106 -107 -69
602	1	33	0.00	0.00	1.20	-67 -105 -106 -68
602	1	33	0.00	0.00	1.20	-66 -104 -105 -67
602	1	33	0.00	0.00	1.20	-65 -103 -104 -66
602	1	33	0.00	0.00	1.20	-379 -380 10 -341
602	1	33	0.00	0.00	1.20	-418 -419 -380 -379
602	1	33	0.00	0.00	1.20	-457 -458 -419 -418
602	1	33	0.00	0.00	1.20	-496 -497 -458 -457
602	1	33	0.00	0.00	1.20	-535 -536 -497 -496
602	1	33	0.00	0.00	1.20	-574 -575 -536 -535
602	1	33	0.00	0.00	1.20	-609 15 -575 -574
602	1	33	0.00	0.00	1.20	-378 -379 -341 -340
602	1	33	0.00	0.00	1.20	-417 -418 -379 -378
602	1	33	0.00	0.00	1.20	-456 -457 -418 -417
602	1	33	0.00	0.00	1.20	-495 -496 -457 -456
602	1	33	0.00	0.00	1.20	-534 -535 -496 -495
602	1	33	0.00	0.00	1.20	-573 -574 -535 -534
602	1	33	0.00	0.00	1.20	-608 -609 -574 -573
602	1	33	0.00	0.00	1.20	-377 -378 -340 -339
602	1	33	0.00	0.00	1.20	-416 -417 -378 -377
602	1	33	0.00	0.00	1.20	-455 -456 -417 -416
602	1	33	0.00	0.00	1.20	-494 -495 -456 -455
602	1	33	0.00	0.00	1.20	-533 -534 -495 -494
602	1	33	0.00	0.00	1.20	-572 -573 -534 -533
602	1	33	0.00	0.00	1.20	-607 -608 -573 -572
602	1	33	0.00	0.00	1.20	-376 -377 -339 -338
602	1	33	0.00	0.00	1.20	-415 -416 -377 -376
602	1	33	0.00	0.00	1.20	-454 -455 -416 -415
602	1	33	0.00	0.00	1.20	-493 -494 -455 -454

602	1	33	0.00	0.00	1.20	-532 -533 -494 -493
602	1	33	0.00	0.00	1.20	-571 -572 -533 -532
602	1	33	0.00	0.00	1.20	-606 -607 -572 -571
602	1	33	0.00	0.00	1.20	-375 -376 -338 -337
602	1	33	0.00	0.00	1.20	-414 -415 -376 -375
602	1	33	0.00	0.00	1.20	-453 -454 -415 -414
602	1	33	0.00	0.00	1.20	-492 -493 -454 -453
602	1	33	0.00	0.00	1.20	-531 -532 -493 -492
602	1	33	0.00	0.00	1.20	-570 -571 -532 -531
602	1	33	0.00	0.00	1.20	-605 -606 -571 -570
602	1	33	0.00	0.00	1.20	-374 -375 -337 -336
602	1	33	0.00	0.00	1.20	-413 -414 -375 -374
602	1	33	0.00	0.00	1.20	-452 -453 -414 -413
602	1	33	0.00	0.00	1.20	-491 -492 -453 -452
602	1	33	0.00	0.00	1.20	-530 -531 -492 -491
602	1	33	0.00	0.00	1.20	-569 -570 -531 -530
602	1	33	0.00	0.00	1.20	-604 -605 -570 -569
602	1	33	0.00	0.00	1.20	-373 -374 -336 -335
602	1	33	0.00	0.00	1.20	-412 -413 -374 -373
602	1	33	0.00	0.00	1.20	-451 -452 -413 -412
602	1	33	0.00	0.00	1.20	-490 -491 -452 -451
602	1	33	0.00	0.00	1.20	-529 -530 -491 -490
602	1	33	0.00	0.00	1.20	-568 -569 -530 -529
602	1	33	0.00	0.00	1.20	-603 -604 -569 -568
602	1	33	0.00	0.00	1.20	-372 -373 -335 -334
602	1	33	0.00	0.00	1.20	-411 -412 -373 -372
602	1	33	0.00	0.00	1.20	-450 -451 -412 -411
602	1	33	0.00	0.00	1.20	-489 -490 -451 -450
602	1	33	0.00	0.00	1.20	-528 -529 -490 -489
602	1	33	0.00	0.00	1.20	-567 -568 -529 -528
602	1	33	0.00	0.00	1.20	-602 -603 -568 -567
602	1	33	0.00	0.00	1.20	-371 -372 -334 -333
602	1	33	0.00	0.00	1.20	-410 -411 -372 -371
602	1	33	0.00	0.00	1.20	-449 -450 -411 -410
602	1	33	0.00	0.00	1.20	-488 -489 -450 -449
602	1	33	0.00	0.00	1.20	-527 -528 -489 -488
602	1	33	0.00	0.00	1.20	-566 -567 -528 -527
602	1	33	0.00	0.00	1.20	-601 -602 -567 -566
602	1	33	0.00	0.00	1.20	-370 -371 -333 9
602	1	33	0.00	0.00	1.20	-409 -410 -371 -370
602	1	33	0.00	0.00	1.20	-448 -449 -410 -409
602	1	33	0.00	0.00	1.20	-487 -488 -449 -448
602	1	33	0.00	0.00	1.20	-526 -527 -488 -487
602	1	33	0.00	0.00	1.20	-565 -566 -527 -526
602	1	33	0.00	0.00	1.20	-842 -877 20 -843
602	1	33	0.00	0.00	1.20	-841 -876 -877 -842
602	1	33	0.00	0.00	1.20	-840 -875 -876 -841
602	1	33	0.00	0.00	1.20	-839 -874 -875 -840
602	1	33	0.00	0.00	1.20	-838 -873 -874 -839
602	1	33	0.00	0.00	1.20	-837 -872 -873 -838
602	1	33	0.00	0.00	1.20	-836 -871 -872 -837
602	1	33	0.00	0.00	1.20	-835 -870 -871 -836
602	1	33	0.00	0.00	1.20	-834 -869 -870 -835
602	1	33	0.00	0.00	1.20	-833 19 -869 -834
602	1	33	0.00	0.00	1.20	-803 -842 -843 -804
602	1	33	0.00	0.00	1.20	-802 -841 -842 -803
602	1	33	0.00	0.00	1.20	-801 -840 -841 -802
602	1	33	0.00	0.00	1.20	-800 -839 -840 -801
602	1	33	0.00	0.00	1.20	-799 -838 -839 -800
602	1	33	0.00	0.00	1.20	-798 -837 -838 -799
602	1	33	0.00	0.00	1.20	-797 -836 -837 -798
602	1	33	0.00	0.00	1.20	-796 -835 -836 -797
602	1	33	0.00	0.00	1.20	-795 -834 -835 -796
602	1	33	0.00	0.00	1.20	-794 -833 -834 -795
602	1	33	0.00	0.00	1.20	-764 -803 -804 -765
602	1	33	0.00	0.00	1.20	-763 -802 -803 -764
602	1	33	0.00	0.00	1.20	-762 -801 -802 -763
602	1	33	0.00	0.00	1.20	-761 -800 -801 -762
602	1	33	0.00	0.00	1.20	-760 -799 -800 -761
602	1	33	0.00	0.00	1.20	-759 -798 -799 -760
602	1	33	0.00	0.00	1.20	-758 -797 -798 -759
602	1	33	0.00	0.00	1.20	-757 -796 -797 -758
602	1	33	0.00	0.00	1.20	-756 -795 -796 -757
602	1	33	0.00	0.00	1.20	-755 -794 -795 -756
602	1	33	0.00	0.00	1.20	-725 -764 -765 -726
602	1	33	0.00	0.00	1.20	-724 -763 -764 -725
602	1	33	0.00	0.00	1.20	-723 -762 -763 -724
602	1	33	0.00	0.00	1.20	-722 -761 -762 -723
602	1	33	0.00	0.00	1.20	-721 -760 -761 -722
602	1	33	0.00	0.00	1.20	-720 -759 -760 -721
602	1	33	0.00	0.00	1.20	-719 -758 -759 -720
602	1	33	0.00	0.00	1.20	-718 -757 -758 -719
602	1	33	0.00	0.00	1.20	-717 -756 -757 -718
602	1	33	0.00	0.00	1.20	-716 -755 -756 -717
602	1	33	0.00	0.00	1.20	-686 -725 -726 -687
602	1	33	0.00	0.00	1.20	-685 -724 -725 -686

602	1	33	0.00	0.00	1.20	-684 -723 -724 -685
602	1	33	0.00	0.00	1.20	-683 -722 -723 -684
602	1	33	0.00	0.00	1.20	-682 -721 -722 -683
602	1	33	0.00	0.00	1.20	-681 -720 -721 -682
602	1	33	0.00	0.00	1.20	-680 -719 -720 -681
602	1	33	0.00	0.00	1.20	-679 -718 -719 -680
602	1	33	0.00	0.00	1.20	-678 -717 -718 -679
602	1	33	0.00	0.00	1.20	-677 -716 -717 -678
602	1	33	0.00	0.00	1.20	-647 -686 -687 -648
602	1	33	0.00	0.00	1.20	-646 -685 -686 -647
602	1	33	0.00	0.00	1.20	-645 -684 -685 -646
602	1	33	0.00	0.00	1.20	-644 -683 -684 -645
602	1	33	0.00	0.00	1.20	-643 -682 -683 -644
602	1	33	0.00	0.00	1.20	-642 -681 -682 -643
602	1	33	0.00	0.00	1.20	-641 -680 -681 -642
602	1	33	0.00	0.00	1.20	-640 -679 -680 -641
602	1	33	0.00	0.00	1.20	-639 -678 -679 -640
602	1	33	0.00	0.00	1.20	-638 -677 -678 -639
602	1	33	0.00	0.00	1.20	-609 -647 -648 15
602	1	33	0.00	0.00	1.20	-608 -646 -647 -609
602	1	33	0.00	0.00	1.20	-607 -645 -646 -608
602	1	33	0.00	0.00	1.20	-606 -644 -645 -607
602	1	33	0.00	0.00	1.20	-605 -643 -644 -606
602	1	33	0.00	0.00	1.20	-604 -642 -643 -605
602	1	33	0.00	0.00	1.20	-603 -641 -642 -604
602	1	33	0.00	0.00	1.20	-602 -640 -641 -603
602	1	33	0.00	0.00	1.20	-601 -639 -640 -602
602	1	33	0.00	0.00	1.20	-915 -916 20 -877
602	1	33	0.00	0.00	1.20	-914 -915 -877 -876
602	1	33	0.00	0.00	1.20	-913 -914 -876 -875
602	1	33	0.00	0.00	1.20	-912 -913 -875 -874
602	1	33	0.00	0.00	1.20	-911 -912 -874 -873
602	1	33	0.00	0.00	1.20	-910 -911 -873 -872
602	1	33	0.00	0.00	1.20	-909 -910 -872 -871
602	1	33	0.00	0.00	1.20	-908 -909 -871 -870
602	1	33	0.00	0.00	1.20	-907 -908 -870 -869
602	1	33	0.00	0.00	1.20	-906 -907 -869 19
602	1	33	0.00	0.00	1.20	14 -638 -639 -601
602	1	33	0.00	0.00	1.20	14 -601 -566 -565
602	1	33	0.00	0.00	1.20	4 -102 -103 -65
602	1	33	0.00	0.00	1.20	5 -39 -38 -73
602	1	33	0.00	0.00	1.20	-20 3 -57 -21
602	1	33	0.00	0.00	1.20	3 -93 -94 -57
602	1	33	0.00	0.00	1.20	8 -361 -362 -325
602	1	33	0.00	0.00	1.20	19 -833 -832 -868
602	1	33	0.00	0.00	1.20	18 -897 -898 -861
602	1	33	0.00	0.00	1.20	17 -888 -889 -853
602	1	33	0.00	0.00	1.20	18 -824 -823 -860
602	1	33	0.00	0.00	1.20	7 -352 -353 -317
602	1	33	0.00	0.00	1.20	2 -84 -85 -49
602	1	33	0.00	0.00	1.20	-11 2 -49 -12
602	1	33	0.00	0.00	1.20	2 -11 -10 -48
602	1	33	0.00	0.00	1.20	1 -74 -75 -40
602	1	33	0.00	0.00	1.20	11 -576 -538 -537
602	1	33	0.00	0.00	1.20	11 -610 -611 -576
602	1	33	0.00	0.00	1.20	-878 -879 -844 16

Elenco tipi solai

Simbologia

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

Ts	Comm.	Rc	Qps <daN/mq>	Qpn <daN/mq>	QA <daN/mq>	QA2 <daN/mq>	QA3 <daN/mq>	Rip. ter.	Rip. int.	Lfl <m>	s	Hs <cm>	Sc <cm>	Crit.
1	Solaio PT (predalles 5+20+5)	UN	400.00	250.00	500.00	0.00	0.00	50.00	50.00	0.00	0.33	30.00	5.00	1
2	Solaio P1 (predalles 5+20+5)	UN	400.00	300.00	300.00	80.00	0.00	50.00	50.00	0.00	0.33	30.00	5.00	1

Elenco solai

Simbologia

Nodi = Nodi del solaio
Ord. = Orditura

Sol. = Numero del solaio
Ts = Numero del tipo solaio

Sol.	Ts	Ord. <grad>	Nodi
100	1	0.00	109 110 105 104
103	1	0.00	108 109 104 103
106	1	0.00	107 108 103 102
109	1	0.00	106 107 102 101
300	2	0.00	309 310 305 304
303	2	0.00	308 309 304 303
306	2	0.00	307 308 303 302
309	2	0.00	306 307 302 301

Sol.	Ts	Ord. <grad>	Nodi
101	1	0.00	109 110 115 114
104	1	0.00	108 109 114 113
107	1	0.00	107 108 113 112
110	1	0.00	106 107 112 111
301	2	0.00	309 310 315 314
304	2	0.00	308 309 314 313
307	2	0.00	307 308 313 312
310	2	0.00	306 307 312 311

Sol.	Ts	Ord. <grad>	Nodi
102	1	0.00	119 120 115 114
105	1	0.00	118 119 114 113
108	1	0.00	117 118 113 112
111	1	0.00	116 117 112 111
302	2	0.00	319 320 315 314
305	2	0.00	318 319 314 313
308	2	0.00	317 318 313 312
311	2	0.00	316 317 312 311

Elenco tipi tamponature

Simbologia

Comm. = Commento
Crit. = Criterio di progetto
P = Puntoni equivalenti
S = Genera i puntoni equivalenti
N = Non genera i puntoni equivalenti
Qpn = Carico permanente non strutturale
Rcg = Ripartizione carichi gravitazionali
AP = Sull'asta di piede
AL = Sulle aste laterali
APT = Sulle aste di piede e di testa
Rcv = Ripartizione carichi vento
AP = Sull'asta di piede
AL = Sulle aste laterali
Tipo = Tipologia
C = Area di carico
V = Area di carico e verifica
Tt = Numero del tipo tamponatura

Tt	Comm.	Qpn <daN/mq>	Rcg	Rcv	P	Tipo	Crit.
1	tamponamenti	350.00	AP	AL	N	C	--

Elenco tamponature

Simbologia

Nodi = Nodi della tamponatura
Tam. = Numero della tamponatura
Tt = Numero del tipo tamponatura

Tam.	Tt	Nodi
101	1	202 201 301 302
104	1	205 204 304 305
107	1	118 119 319 318
110	1	211 216 316 311
113	1	220 215 315 320

Tam.	Tt	Nodi
102	1	203 202 302 303
105	1	116 117 317 316 216
108	1	119 120 220 320 319
111	1	210 205 305 310
208	1	201 206 306 301

Tam.	Tt	Nodi
103	1	204 203 303 304
106	1	117 118 318 317
109	1	206 211 311 306
112	1	215 210 310 315

Carichi

Elenco tipi CCE

Simbologia

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

Tipo CCE = Tipo condizione di carico elementare

Tipo CCE	Comm.	Tipo	Durata	γ min.	γ max	ψ_0	ψ_1	ψ_2	$\psi_{0,s}$
1	D.M. 18 Permanenti strutturali	G	P	1.00	1.30				
2	D.M. 18 Permanenti non strutturali	G	L	0.80	1.50				
5	D.M. 18 Variabili Categoria C - Ambienti suscettibili di affollamento	Q	M	0.00	1.50	0.70	0.70	0.60	0.00
8	D.M. 18 Variabili Categoria F - Rimesse, parcheggi ed aree per il traffico di veicoli (per autoveicoli di peso <= 30 kN)	Q	M	0.00	1.50	0.70	0.70	0.60	0.00
12	D.M. 18 Variabili Neve (a quota <= 1000 m s.l.m.)	Q	M	0.00	1.50	0.50	0.20	0.00	0.00

Condizioni di carico elementari

Simbologia

CCE = Numero della condizione di carico elementare
Comm. = Commento
Dir. = Direzione del vento
Jpx = Moltiplicatore del momento d'inerzia intorno all'asse X
Jpy = Moltiplicatore del momento d'inerzia intorno all'asse Y
Jpz = Moltiplicatore del momento d'inerzia intorno all'asse Z
Mx = Moltiplicatore della massa in dir. X
My = Moltiplicatore della massa in dir. Y
Mz = Moltiplicatore della massa in dir. Z
Sic. = Contributo alla sicurezza
S = a sfavore
Tipo = Tipologia di pressione vento
M = Massimizzata
E = Esterna
I = Interna
Tipo CCE = Tipo di CCE per calcolo agli stati limite
Var. = Tipo di variabilità
B = di base
I = indipendente
s = Coeff. di riduzione (T.A. o S.L. D.M. 96)

CCE	Comm.	Tipo CCE	Sic.	Var.	s	Dir. <grad>	Tipo	Mx	My	Mz	Jpx	Jpy	Jpz
1	G1	1	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
2	G2	2	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
3	Q (categ. C)	5	S	B	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
4	Q (categ. F)	8	S	I	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00
5	Q (neve)	12	S	I	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00

Elenco carichi asteCondizione di carico n. 1: G1
Elenco peso proprio aste

Simbologia

A = Area
Comm. = Commento
Mat. = Materiale
P = Peso specifico
PL = Peso specifico a metro lineare
Sez. = Numero della sezione

Sez.	Comm.	A <cmq>	Mat.	P <daN/mc>	PL <daN/m>
1	pil. 50x40	2000.000000	Calcestruzzo classe C30/37	2500.00	500.00
2	tr. 60x30	1800.000000	Calcestruzzo classe C30/37	2500.00	450.00
3	tr. 40x30	1200.000000	Calcestruzzo classe C30/37	2500.00	300.00
4	tr. 50x30	1500.000000	Calcestruzzo classe C30/37	2500.00	375.00
5	tr. 30x25	750.000000	Calcestruzzo classe C30/37	2500.00	187.50

Condizione di carico n. 1: G1
Carichi distribuiti

Simbologia

Asta = Numero dell'asta
DC = Direzione del carico
XG,YG,ZG = secondo gli assi globali
XL,YL,ZL = secondo gli assi locali
E = Elemento provenienza del carico
S = Solaio
T = Tamponatura
N1 = Nodo iniziale
N2 = Nodo finale
NE = Numero elemento di provenienza del carico
Qf = Carico finale
Qi = Carico iniziale
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
Xf = Distanza finale

Xi = Distanza iniziale

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
105	101	106	S	109	QPS	ZG	0.00	1418.00	5.07	1418.00
105	111	116	S	111	QPS	ZG	0.00	1418.00	5.20	1418.00
106	102	107	S	109	QPS	ZG	0.00	1418.00	5.07	1418.00
106	107	112	S	110	QPS	ZG	0.00	1418.00	5.00	1418.00
106	112	117	S	111	QPS	ZG	0.00	1418.00	5.20	1418.00
107	103	108	S	106	QPS	ZG	0.00	1320.00	5.07	1320.00
107	108	113	S	107	QPS	ZG	0.00	1320.00	5.00	1320.00
107	113	118	S	108	QPS	ZG	0.00	1320.00	5.20	1320.00
108	104	109	S	103	QPS	ZG	0.00	1320.00	5.07	1320.00
108	109	114	S	104	QPS	ZG	0.00	1320.00	5.00	1320.00
108	114	119	S	105	QPS	ZG	0.00	1320.00	5.20	1320.00
109	115	110	S	101	QPS	ZG	0.00	1418.00	5.00	1418.00
305	301	306	S	309	QPS	ZG	0.00	1418.00	5.07	1418.00
305	311	316	S	311	QPS	ZG	0.00	1418.00	5.20	1418.00
306	302	307	S	309	QPS	ZG	0.00	1418.00	5.07	1418.00
306	307	312	S	310	QPS	ZG	0.00	1418.00	5.00	1418.00
306	312	317	S	311	QPS	ZG	0.00	1418.00	5.20	1418.00
307	303	308	S	306	QPS	ZG	0.00	1320.00	5.07	1320.00
307	308	313	S	307	QPS	ZG	0.00	1320.00	5.00	1320.00
307	313	318	S	308	QPS	ZG	0.00	1320.00	5.20	1320.00
308	304	309	S	303	QPS	ZG	0.00	1320.00	5.07	1320.00
308	309	314	S	304	QPS	ZG	0.00	1320.00	5.00	1320.00
308	314	319	S	305	QPS	ZG	0.00	1320.00	5.20	1320.00
309	315	310	S	301	QPS	ZG	0.00	1418.00	5.00	1418.00

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
105	106	111	S	110	QPS	ZG	0.00	1418.00	5.00	1418.00
106	102	107	S	106	QPS	ZG	0.00	1320.00	5.07	1320.00
106	107	112	S	107	QPS	ZG	0.00	1320.00	5.00	1320.00
106	112	117	S	108	QPS	ZG	0.00	1320.00	5.20	1320.00
107	103	108	S	103	QPS	ZG	0.00	1320.00	5.07	1320.00
107	108	113	S	104	QPS	ZG	0.00	1320.00	5.00	1320.00
107	113	118	S	105	QPS	ZG	0.00	1320.00	5.20	1320.00
108	104	109	S	100	QPS	ZG	0.00	1418.00	5.07	1418.00
108	109	114	S	101	QPS	ZG	0.00	1418.00	5.00	1418.00
108	114	119	S	102	QPS	ZG	0.00	1418.00	5.20	1418.00
109	110	105	S	100	QPS	ZG	0.00	1418.00	5.07	1418.00
109	120	115	S	102	QPS	ZG	0.00	1418.00	5.20	1418.00
305	306	311	S	310	QPS	ZG	0.00	1418.00	5.00	1418.00
306	302	307	S	306	QPS	ZG	0.00	1320.00	5.07	1320.00
306	307	312	S	307	QPS	ZG	0.00	1320.00	5.00	1320.00
306	312	317	S	308	QPS	ZG	0.00	1320.00	5.20	1320.00
307	303	308	S	303	QPS	ZG	0.00	1320.00	5.07	1320.00
307	308	313	S	304	QPS	ZG	0.00	1320.00	5.00	1320.00
307	313	318	S	305	QPS	ZG	0.00	1320.00	5.20	1320.00
308	304	309	S	300	QPS	ZG	0.00	1418.00	5.07	1418.00
308	309	314	S	301	QPS	ZG	0.00	1418.00	5.00	1418.00
308	314	319	S	302	QPS	ZG	0.00	1418.00	5.20	1418.00
309	310	305	S	300	QPS	ZG	0.00	1418.00	5.07	1418.00
309	320	315	S	302	QPS	ZG	0.00	1418.00	5.20	1418.00

Condizione di carico n. 2: G2
Carichi distribuiti

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
101	102	101	-	--	M	ZG	0.00	120.00	7.09	120.00
101	104	103	-	--	M	ZG	0.00	120.00	6.60	120.00
104	116	117	T	105	QPN	ZG	0.00	1610.00	7.09	1610.00
104	118	119	T	107	QPN	ZG	0.00	1610.00	6.60	1610.00
105	101	106	-	--	M	ZG	0.00	120.00	5.07	120.00
105	106	111	-	--	M	ZG	0.00	120.00	5.00	120.00
105	111	116	-	--	M	ZG	0.00	120.00	5.20	120.00
106	102	107	S	106	QPN	ZG	0.00	825.00	5.07	825.00
106	107	112	S	107	QPN	ZG	0.00	825.00	5.00	825.00
106	112	117	S	108	QPN	ZG	0.00	825.00	5.20	825.00
107	103	108	S	103	QPN	ZG	0.00	825.00	5.07	825.00
107	108	113	S	104	QPN	ZG	0.00	825.00	5.00	825.00
107	113	118	S	105	QPN	ZG	0.00	825.00	5.20	825.00
108	104	109	S	100	QPN	ZG	0.00	886.25	5.07	886.25
108	109	114	S	101	QPN	ZG	0.00	886.25	5.00	886.25
108	114	119	S	102	QPN	ZG	0.00	886.25	5.20	886.25
109	110	105	-	--	M	ZG	0.00	120.00	5.07	120.00
109	115	110	-	--	M	ZG	0.00	120.00	5.00	120.00
109	120	115	-	--	M	ZG	0.00	120.00	5.20	120.00
201	202	201	T	101	QPN	ZG	0.00	367.50	7.09	367.50
201	204	203	T	103	QPN	ZG	0.00	367.50	6.60	367.50

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
101	103	102	-	--	M	ZG	0.00	120.00	6.60	120.00
101	105	104	-	--	M	ZG	0.00	120.00	7.09	120.00
104	117	118	T	106	QPN	ZG	0.00	1610.00	6.60	1610.00
104	119	120	T	108	QPN	ZG	0.00	1610.00	7.09	1610.00
105	101	106	S	109	QPN	ZG	0.00	886.25	5.07	886.25
105	106	111	S	110	QPN	ZG	0.00	886.25	5.00	886.25
105	111	116	S	111	QPN	ZG	0.00	886.25	5.20	886.25
106	102	107	S	109	QPN	ZG	0.00	886.25	5.07	886.25
106	107	112	S	110	QPN	ZG	0.00	886.25	5.00	886.25
106	112	117	S	111	QPN	ZG	0.00	886.25	5.20	886.25
107	103	108	S	106	QPN	ZG	0.00	825.00	5.07	825.00
107	108	113	S	107	QPN	ZG	0.00	825.00	5.00	825.00
107	113	118	S	108	QPN	ZG	0.00	825.00	5.20	825.00
108	104	109	S	103	QPN	ZG	0.00	825.00	5.07	825.00
108	109	114	S	104	QPN	ZG	0.00	825.00	5.00	825.00
108	114	119	S	105	QPN	ZG	0.00	825.00	5.20	825.00
109	110	105	S	100	QPN	ZG	0.00	886.25	5.07	886.25
109	115	110	S	101	QPN	ZG	0.00	886.25	5.00	886.25
109	120	115	S	102	QPN	ZG	0.00	886.25	5.20	886.25
201	203	202	T	102	QPN	ZG	0.00	367.50	6.60	367.50
201	205	204	T	104	QPN	ZG	0.00	367.50	7.09	367.50

205	201	206	T	208	QPN	ZG	0.00	367.50	5.07	367.50
205	211	216	T	110	QPN	ZG	0.00	367.50	5.20	367.50
209	215	210	T	112	QPN	ZG	0.00	367.50	5.00	367.50
301	302	301	-	--	M	ZG	0.00	550.00	7.09	550.00
301	304	303	-	--	M	ZG	0.00	550.00	6.60	550.00
304	316	317	-	--	M	ZG	0.00	550.00	7.09	550.00
304	318	319	-	--	M	ZG	0.00	550.00	6.60	550.00
305	301	306	S	309	QPN	ZG	0.00	1063.50	5.07	1063.50
305	311	316	S	311	QPN	ZG	0.00	1063.50	5.20	1063.50
306	302	307	S	309	QPN	ZG	0.00	1063.50	5.07	1063.50
306	307	312	S	310	QPN	ZG	0.00	1063.50	5.00	1063.50
306	312	317	S	311	QPN	ZG	0.00	1063.50	5.20	1063.50
307	303	308	S	306	QPN	ZG	0.00	990.00	5.07	990.00
307	308	313	S	307	QPN	ZG	0.00	990.00	5.00	990.00
307	313	318	S	308	QPN	ZG	0.00	990.00	5.20	990.00
308	304	309	S	303	QPN	ZG	0.00	990.00	5.07	990.00
308	309	314	S	304	QPN	ZG	0.00	990.00	5.00	990.00
308	314	319	S	305	QPN	ZG	0.00	990.00	5.20	990.00
309	315	310	S	301	QPN	ZG	0.00	1063.50	5.00	1063.50

205	206	211	T	109	QPN	ZG	0.00	367.50	5.00	367.50
209	210	205	T	111	QPN	ZG	0.00	367.50	5.07	367.50
209	220	215	T	113	QPN	ZG	0.00	367.50	5.20	367.50
301	303	302	-	--	M	ZG	0.00	550.00	6.60	550.00
301	305	304	-	--	M	ZG	0.00	550.00	7.09	550.00
304	317	318	-	--	M	ZG	0.00	550.00	6.60	550.00
304	319	320	-	--	M	ZG	0.00	550.00	7.09	550.00
305	306	311	S	310	QPN	ZG	0.00	1063.50	5.00	1063.50
306	302	307	S	306	QPN	ZG	0.00	990.00	5.07	990.00
306	307	312	S	307	QPN	ZG	0.00	990.00	5.00	990.00
306	312	317	S	308	QPN	ZG	0.00	990.00	5.20	990.00
307	303	308	S	303	QPN	ZG	0.00	990.00	5.07	990.00
307	308	313	S	304	QPN	ZG	0.00	990.00	5.00	990.00
307	313	318	S	305	QPN	ZG	0.00	990.00	5.20	990.00
308	304	309	S	300	QPN	ZG	0.00	1063.50	5.07	1063.50
308	309	314	S	301	QPN	ZG	0.00	1063.50	5.00	1063.50
308	314	319	S	302	QPN	ZG	0.00	1063.50	5.20	1063.50
309	310	305	S	300	QPN	ZG	0.00	1063.50	5.07	1063.50
309	320	315	S	302	QPN	ZG	0.00	1063.50	5.20	1063.50

Condizione di carico n. 3: Q (categ. C)
Carichi distribuiti

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
105	101	106	S	109	QA	ZG	0.00	1772.50	5.07	1772.50
105	111	116	S	111	QA	ZG	0.00	1772.50	5.20	1772.50
106	102	107	S	109	QA	ZG	0.00	1772.50	5.07	1772.50
106	107	112	S	110	QA	ZG	0.00	1772.50	5.00	1772.50
106	112	117	S	111	QA	ZG	0.00	1772.50	5.20	1772.50
107	103	108	S	106	QA	ZG	0.00	1650.00	5.07	1650.00
107	108	113	S	107	QA	ZG	0.00	1650.00	5.00	1650.00
107	113	118	S	108	QA	ZG	0.00	1650.00	5.20	1650.00
108	104	109	S	103	QA	ZG	0.00	1650.00	5.07	1650.00
108	109	114	S	104	QA	ZG	0.00	1650.00	5.00	1650.00
108	114	119	S	105	QA	ZG	0.00	1650.00	5.20	1650.00
109	115	110	S	101	QA	ZG	0.00	1772.50	5.00	1772.50
305	301	306	S	309	QA	ZG	0.00	1063.50	5.07	1063.50
305	311	316	S	311	QA	ZG	0.00	1063.50	5.20	1063.50
306	302	307	S	309	QA	ZG	0.00	1063.50	5.07	1063.50
306	307	312	S	310	QA	ZG	0.00	1063.50	5.00	1063.50
306	312	317	S	311	QA	ZG	0.00	1063.50	5.20	1063.50
307	303	308	S	306	QA	ZG	0.00	990.00	5.07	990.00
307	308	313	S	307	QA	ZG	0.00	990.00	5.00	990.00
307	313	318	S	308	QA	ZG	0.00	990.00	5.20	990.00
308	304	309	S	303	QA	ZG	0.00	990.00	5.07	990.00
308	309	314	S	304	QA	ZG	0.00	990.00	5.00	990.00
308	314	319	S	305	QA	ZG	0.00	990.00	5.20	990.00
309	315	310	S	301	QA	ZG	0.00	1063.50	5.00	1063.50

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>
105	106	111	S	110	QA	ZG	0.00	1772.50	5.00	1772.50
106	102	107	S	106	QA	ZG	0.00	1650.00	5.07	1650.00
106	107	112	S	107	QA	ZG	0.00	1650.00	5.00	1650.00
106	112	117	S	108	QA	ZG	0.00	1650.00	5.20	1650.00
107	103	108	S	103	QA	ZG	0.00	1650.00	5.07	1650.00
107	108	113	S	104	QA	ZG	0.00	1650.00	5.00	1650.00
107	113	118	S	105	QA	ZG	0.00	1650.00	5.20	1650.00
108	104	109	S	100	QA	ZG	0.00	1772.50	5.07	1772.50
108	109	114	S	101	QA	ZG	0.00	1772.50	5.00	1772.50
108	114	119	S	102	QA	ZG	0.00	1772.50	5.20	1772.50
109	110	105	S	100	QA	ZG	0.00	1772.50	5.07	1772.50
109	120	115	S	102	QA	ZG	0.00	1772.50	5.20	1772.50
305	306	311	S	310	QA	ZG	0.00	1063.50	5.00	1063.50
306	302	307	S	306	QA	ZG	0.00	990.00	5.07	990.00
306	307	312	S	307	QA	ZG	0.00	990.00	5.00	990.00
306	312	317	S	308	QA	ZG	0.00	990.00	5.20	990.00
307	303	308	S	303	QA	ZG	0.00	990.00	5.07	990.00
307	308	313	S	304	QA	ZG	0.00	990.00	5.00	990.00
307	313	318	S	305	QA	ZG	0.00	990.00	5.20	990.00
308	304	309	S	300	QA	ZG	0.00	1063.50	5.07	1063.50
308	309	314	S	301	QA	ZG	0.00	1063.50	5.00	1063.50
308	314	319	S	302	QA	ZG	0.00	1063.50	5.20	1063.50
309	310	305	S	300	QA	ZG	0.00	1063.50	5.07	1063.50
309	320	315	S	302	QA	ZG	0.00	1063.50	5.20	1063.50

Condizione di carico n. 5: Q (neve)
Carichi distribuiti

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>

Asta	N1	N2	E	NE	T	DC	Xi <m>	Qi <daN/m>	Xf <m>	Qf <daN/m>

305	301	306	S	309	QA2	ZG	0.00	283.60	5.07	283.60
305	311	316	S	311	QA2	ZG	0.00	283.60	5.20	283.60
306	302	307	S	309	QA2	ZG	0.00	283.60	5.07	283.60
306	307	312	S	310	QA2	ZG	0.00	283.60	5.00	283.60
306	312	317	S	311	QA2	ZG	0.00	283.60	5.20	283.60
307	303	308	S	306	QA2	ZG	0.00	264.00	5.07	264.00
307	308	313	S	307	QA2	ZG	0.00	264.00	5.00	264.00
307	313	318	S	308	QA2	ZG	0.00	264.00	5.20	264.00
308	304	309	S	303	QA2	ZG	0.00	264.00	5.07	264.00
308	309	314	S	304	QA2	ZG	0.00	264.00	5.00	264.00
308	314	319	S	305	QA2	ZG	0.00	264.00	5.20	264.00
309	315	310	S	301	QA2	ZG	0.00	283.60	5.00	283.60

305	306	311	S	310	QA2	ZG	0.00	283.60	5.00	283.60
306	302	307	S	306	QA2	ZG	0.00	264.00	5.07	264.00
306	307	312	S	307	QA2	ZG	0.00	264.00	5.00	264.00
306	312	317	S	308	QA2	ZG	0.00	264.00	5.20	264.00
307	303	308	S	303	QA2	ZG	0.00	264.00	5.07	264.00
307	308	313	S	304	QA2	ZG	0.00	264.00	5.00	264.00
307	313	318	S	305	QA2	ZG	0.00	264.00	5.20	264.00
308	304	309	S	300	QA2	ZG	0.00	283.60	5.07	283.60
308	309	314	S	301	QA2	ZG	0.00	283.60	5.00	283.60
308	314	319	S	302	QA2	ZG	0.00	283.60	5.20	283.60
309	310	305	S	300	QA2	ZG	0.00	283.60	5.07	283.60
309	320	315	S	302	QA2	ZG	0.00	283.60	5.20	283.60

Elenco carichi elementi bidimensionaliElenco peso proprio elementi bidimensionali

Simbologia

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

Tb	Comm.	Spess. <cm>	Mat.	P <daN/mc>	PQ <daN/mq>
1	platea 40cm	40.00	Calcestruzzo classe C25/30	2500.00	1000.00

Condizione di carico n. 2: G2
Carichi uniformi

Simbologia

Bid. = Numero del muro/elemento bidimensionale
DC = Direzione del carico
G = secondo gli assi globali
L = secondo gli assi locali
N1 = Nodo1
N2 = Nodo2
N3 = Nodo3
N4 = Nodo4
Qx = Carico in dir. X
Qy = Carico in dir. Y
Qz = Carico in dir. Z
T = Tipo di carico
PP = Peso proprio
M = Manuale

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
602	--	--	--	--	M	G	0.00	0.00	200.00

Condizione di carico n. 4: Q (categ. F)
Carichi uniformi

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
602	--	--	--	--	M	G	0.00	0.00	250.00

Risultati del calcolo

Parametri di calcolo

La modellazione della struttura e la rielaborazione dei risultati del calcolo sono stati effettuati con:
ModeSt ver. 8.26, licenza n. 5890, prodotto da Tecnisoft s.a.s. - Prato
La struttura è stata calcolata utilizzando come solutore agli elementi finiti:
Xfinest ver. 9.3.5, licenza n. 815, prodotto da Ce.A.S. S.r.l. - Milano

Tipo di normativa: stati limite D.M. 18
Tipo di calcolo: sismica dinamica
Vincoli esterni: Considera sempre vincoli assegnati in modellazione
Schematizzazione piani rigidi:
Imp.1: controventatura solai
Imp.2: impalcato non rigido
Imp.3: controventatura solai
Modalità di recupero masse secondarie: trasferire le masse
- All'impalcato più vicino in assoluto: No
- Anche sui nodi degli impalcati non rigidi: Sì

- 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: No
- 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: Sì
- 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
- Opzioni aggiuntive per analisi non lineari in presenza di elementi bidimensionali con comportamento Drucker-Prager:

OPTION PARAM CONV=E
OPTION PARAM RESENORM=1.E-8
OPTION PARAM AUTO_INCREMENT=YES
OPTION PARAM LINE_SEARCHES=YES
OPTION PARAM BGINCRS=1.0
OPTION PARAM AVINCRS=1.0

Dati struttura

- Sito di costruzione: Ponte a Elsa - Empoli LON. 10.90290 LAT. 43.69458
  Contenuto tra ID reticolo: 20276 20275 20498 20497

Simbologia

Ag = Accelerazione orizzontale massima al sito
C_C = Coefficiente funzione della categoria del suolo
Fo = Valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale
S_S = Coefficiente di amplificazione stratigrafica
T_R = Periodo di ritorno <anni>
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tc* = Periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale <sec>

TCC	T_R	Ag <g>	Fo	Tc*	S_S	C_C
SLD	50	0.0539	2.56	0.26	1.50	1.64
SLV	475	0.1244	2.53	0.29	1.50	1.59

- Edificio esistente: No
- Spettri: Automatici da normativa
- Tipo di opera: Opera ordinaria
- Vita nominale V_N: 50.00
- Classe d'uso: Classe II
- SL Esercizio: SLOPvr No, SLDPvr 63.00
- SL Ultimi: SLVPvr 10.00, SLCPvr No
- Struttura dissipativa: Sì
- Classe di duttilità: Classe B
- Quota di riferimento: 0.00 <m>
- Quota max della struttura: 7.40 <m>
- Altezza della struttura: 7.40 <m>
- Numero piani edificio: 3
- Coefficiente θ: 0.00
- Edificio regolare in altezza: Sì
- Edificio regolare in pianta: Sì
- Forze orizzontali convenzionali per stati limite non sismici: 1.00%
- Genera stati limite per verifiche di resistenza al fuoco: No

Dati di piano

Simbologia

Ea = Eccentricità complessiva

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

Imp.	Lx <m>	Ly <m>	Ex <m>	Ey <m>	Ea <m>
1	27.38	15.27	1.37	0.76	1.57
2	27.38	15.27	1.37	0.76	1.57
3	27.38	15.27	1.37	0.76	1.57

Dati di calcolo

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

Periodo T_1	0.52364
Coeff. λ SLD	0.85
Coeff. λ SLV	0.85
Rapporto di sovraresistenza (α_u/α_1)	1.30
Valore di riferimento del fattore di comportamento (q_0)	3.90
Fattore riduttivo (K_w)	1.00
Fattore riduttivo regolarità in altezza (KR)	1.00
Fattore di comportamento dissipativo (q)	3.90
Fattore di comportamento non dissipativo (qND)	1.50
Fattore di comportamento per SLD (qD)	1.00

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

  6) Forze dir. X
  Numero modi: 4
  7) Forze dir. Y
  Numero modi: 4
- Modi da considerare: Tali da movimentare una percentuale di massa pari a 85.00%
- Trascura modi con massa movimentata minore di: 5.00%
- Smorzamento spettro: 5.00%

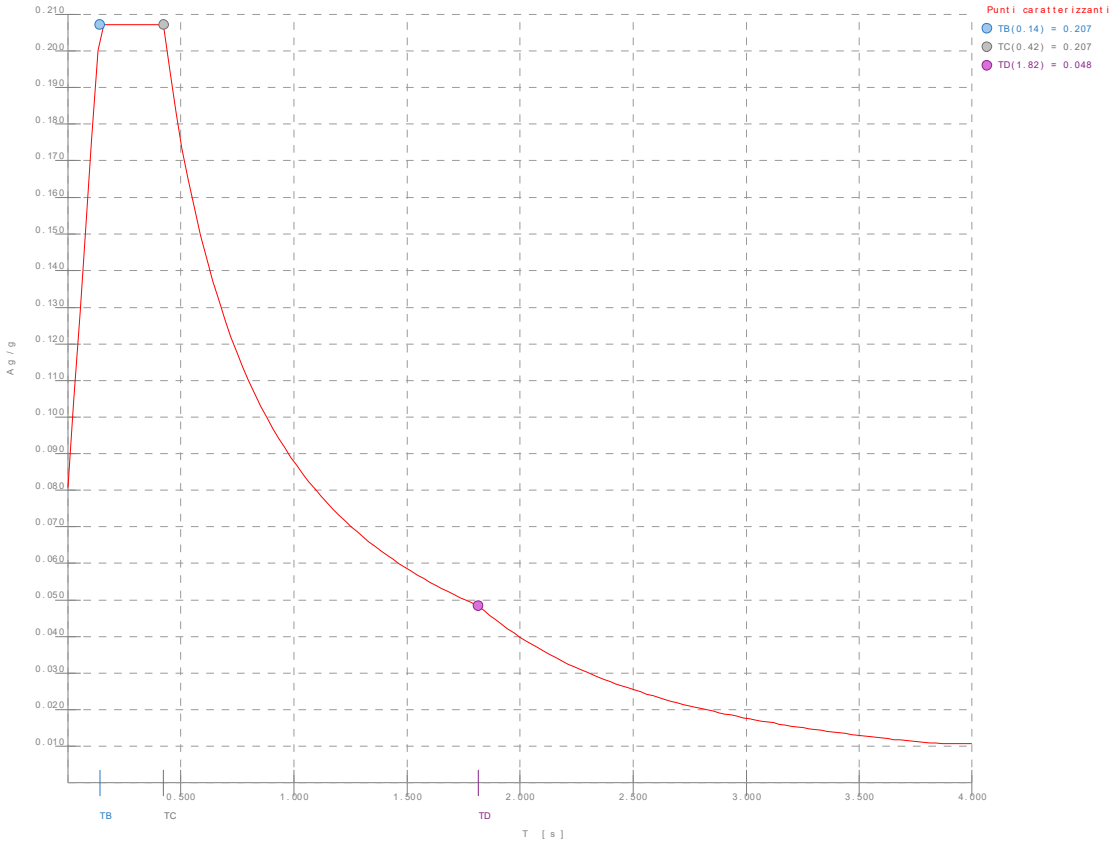

Figura numero 1: Spettro SLD

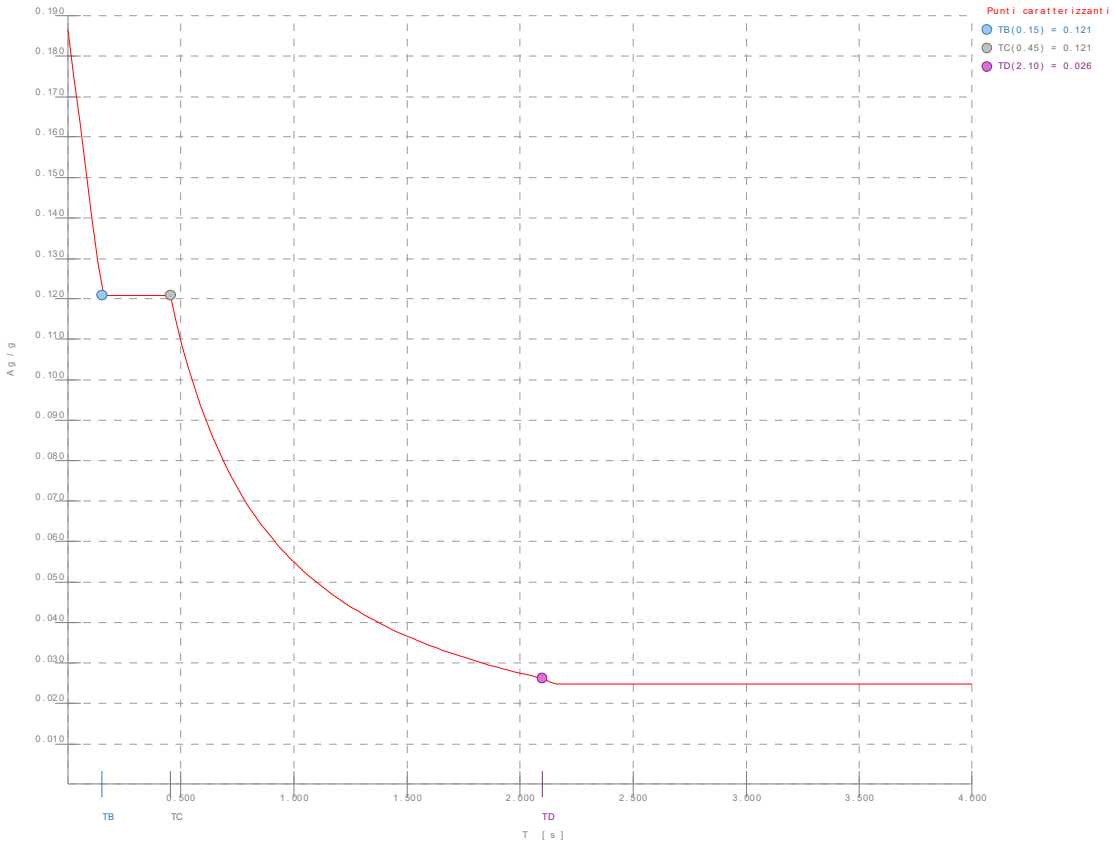

Figura numero 2: Spettro SLV

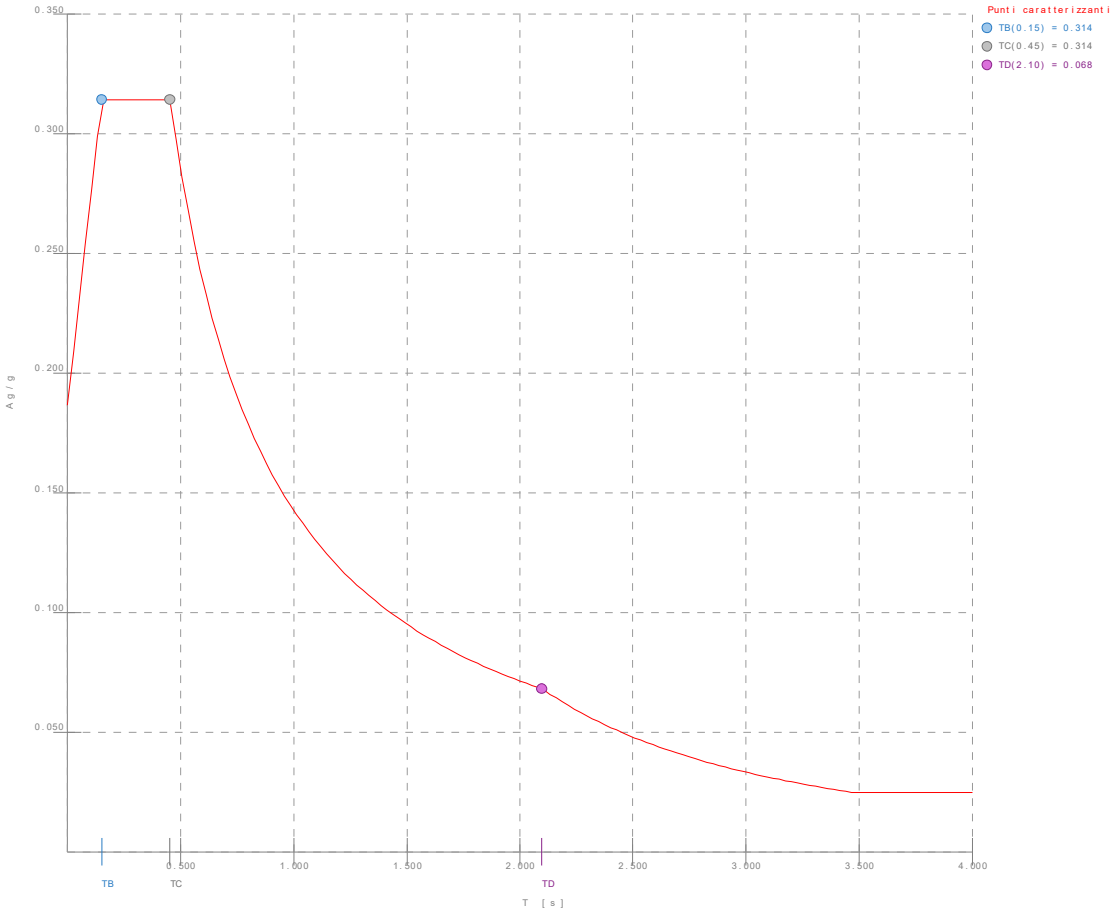

Figura numero 3: Spettro SND

- Angolo di ingresso del sisma: 0.00 <grad>

Ambienti di carico

Simbologia

N = Numero
Comm. = Commento
1 = G1
2 = G2
3 = Q (categ. C)
4 = Q (categ. F)
5 = Q (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 = Sì
N = No

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

Elenco combinazioni di carico simboliche

Simbologia

CC = Numero della combinazione delle condizioni di carico elementari
Comm. = Commento
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)

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

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

Considera sollecitazioni dinamiche con segno dei modi principali: No

Combinazioni delle CCE

Simbologia

An. = Tipo di analisi
L = Lineare
NL = Non lineare
Bk = Buckling
S = Sì
N = No
CC = Numero della combinazione delle condizioni di carico elementari
Comm. = Commento
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)

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

Elenco masse nodi

Simbologia
Mo = Massa orizzontale
Nodo = Numero del nodo

Nodo	Mo <kg>	Nodo	Mo <kg>	Nodo	Mo <kg>	Nodo	Mo <kg>	Nodo	Mo <kg>	Nodo	Mo <kg>	Nodo	Mo <kg>
101	13117.70	102	22515.40	103	21809.10	104	22515.40	105	13117.70	106	22528.00	107	39664.20
108	38394.70	109	39664.20	110	22528.00	111	22783.90	112	40124.90	113	38840.00	114	40124.90
115	22783.90	116	18758.00	117	33640.30	118	32546.40	119	33640.30	120	18758.00	201	4612.03
202	5044.83	203	4906.22	204	5044.83	205	4612.03	206	4020.82	210	4020.82	211	4057.59
215	4057.59	216	2643.22	220	2643.22	301	12369.60	302	22733.10	303	21963.70	304	22733.10
305	12369.60	306	19287.80	307	36106.50	308	34925.00	309	36106.50	310	19287.80	311	19519.30
312	36530.40	313	35334.70	314	36530.40	315	19519.30	316	12601.10	317	24061.80	318	23278.10
319	24061.80	320	12601.10										

Totali masse nodi

Mo <kg>
1085440.00

Elenco pesi e forze fittizie nodi

Simbologia
Fx = Forza in dir. X
Fy = Forza in dir. Y
Nodo = Numero del nodo
Peso = Peso

Nodo	Peso <daN>	Fx <daN>	Fy <daN>	Nodo	Peso <daN>	Fx <daN>	Fy <daN>	Nodo	Peso <daN>	Fx <daN>	Fy <daN>
101	14665.80	146.66	146.66	102	25558.00	255.58	255.58	103	24740.90	247.41	247.41
104	25558.00	255.58	255.58	105	14665.80	146.66	146.66	106	25669.80	256.70	256.70
107	45803.50	458.04	458.04	108	44311.40	443.11	443.11	109	45803.50	458.04	458.04
110	25669.80	256.70	256.70	111	25966.90	259.67	259.67	112	46344.40	463.44	463.44
113	44834.00	448.34	448.34	114	46344.40	463.44	463.44	115	25966.90	259.67	259.67
116	20245.00	202.45	202.45	117	36560.50	365.61	365.61	118	35360.00	353.60	353.60
119	36560.50	365.61	365.61	120	20245.00	202.45	202.45	201	4524.40	45.24	45.24
202	4948.98	49.49	49.49	203	4813.00	48.13	48.13	204	4948.98	49.49	49.49
205	4524.40	45.24	45.24	206	3944.43	39.44	39.44	210	3944.43	39.44	39.44
211	3980.50	39.80	39.80	215	3980.50	39.80	39.80	216	2593.00	25.93	25.93
220	2593.00	25.93	25.93	301	13931.90	139.32	139.32	302	25771.60	257.72	257.72
303	24892.60	248.93	248.93	304	25771.60	257.72	257.72	305	13931.90	139.32	139.32
306	22491.10	224.91	224.91	307	42313.40	423.13	423.13	308	40907.60	409.08	409.08
309	42313.40	423.13	423.13	310	22491.10	224.91	224.91	311	22764.40	227.64	227.64
312	42818.30	428.18	428.18	313	41395.30	413.95	413.95	314	42818.30	428.18	428.18
315	22764.40	227.64	227.64	316	14205.10	142.05	142.05	317	27164.00	271.64	271.64
318	26267.80	262.68	262.68	319	27164.00	271.64	271.64	320	14205.10	142.05	142.05

Elenco modi di vibrare, masse partecipanti e coefficienti di partecipazione

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

Modo	C	T	Diff.	Φx	Φy	Φz	%Mx	%My	%Mz	%Jpz

1	*	0.66	26.83	287.08	-0.00	0.00	75.93	0.00	0.00	0.00
2	*	0.52	9.23	0.00	290.44	0.00	0.00	77.72	0.00	0.00
3		0.48	9.23	-6.48	0.00	0.00	0.04	0.00	0.00	0.00
4	*	0.16	24.72	-160.93	0.00	0.00	23.86	0.00	0.00	0.00
5	*	0.13	23.87	-0.00	-155.44	0.00	0.00	22.26	0.00	0.00
6		0.10	23.87	-12.71	-0.00	0.00	0.15	0.00	0.00	0.00
7		0.03	28.46	-0.00	3.37	0.00	0.00	0.01	0.00	0.00
8		0.02	28.46	-0.00	-3.82	0.00	0.00	0.01	0.00	0.00
Tot.cons.							99.79	99.98	0.00	0.00

Elenco coefficienti di risposta

Simbologia

Modo = Numero del modo di vibrare
Sx = Coefficiente di risposta (moltiplicato per 100) in dir. X
Sy = Coefficiente di risposta (moltiplicato per 100) in dir. Y

Stato limite di danno

Modo	Sx	Sy
1	13.23	13.23
2	16.78	16.78
3	18.33	18.33
4	20.73	20.73
5	19.59	19.59
6	17.37	17.37
7	10.44	10.44
8	9.92	9.92

Stato limite di salvaguardia della vita

Modo	Sx	Sy
1	8.27	8.27
2	10.49	10.49
3	11.46	11.46
4	12.09	12.09
5	13.08	13.08
6	14.15	14.15
7	17.52	17.52
8	17.77	17.77

Domanda in duttilità di curvatura

Direzione X μ_{EdX}=8.16
Direzione Y μ_{EdY}=8.16

Spostamenti relativi massimi allo stato limite di danno

Simbologia

δ = Spostamento relativo
δ/h = Rapporto (moltiplicato per 1000) tra lo spostamento relativo e l'altezza
CC = Numero della combinazione delle condizioni di carico elementari
N1 = Nodo1
N2 = Nodo2
h = Altezza teorica

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

N1	N2	h <m>	δ <cm>	δ/h	CC
1	101	2.80	0.52	1.87	2
102	202	3.55	1.04	2.92	2
203	303	1.05	0.24	2.28	8
5	105	2.80	0.52	1.87	2
106	206	3.55	1.03	2.91	2
8	108	2.80	0.52	1.87	2
10	110	2.80	0.53	1.89	2
111	211	3.55	1.05	2.96	2
13	113	2.80	0.53	1.90	2
15	115	2.80	0.54	1.91	2
116	216	3.55	1.06	2.99	2
18	118	2.80	0.54	1.92	2
20	120	2.80	0.54	1.94	2

N1	N2	h <m>	δ <cm>	δ/h	CC
101	201	3.55	1.03	2.90	2
202	302	1.05	0.24	2.30	6
4	104	2.80	0.52	1.86	2
105	205	3.55	1.04	2.92	2
206	306	1.05	0.28	2.63	2
108	308	4.60	1.28	2.78	2
110	210	3.55	1.03	2.89	2
211	311	1.05	0.28	2.71	2
113	313	4.60	1.30	2.82	2
115	215	3.55	1.04	2.93	2
216	316	1.05	0.29	2.74	2
118	318	4.60	1.32	2.86	2
120	220	3.55	1.05	2.96	2

N1	N2	h <m>	δ <cm>	δ/h	CC
201	301	1.05	0.24	2.33	2
3	103	2.80	0.52	1.85	2
104	204	3.55	1.03	2.92	2
205	305	1.05	0.24	2.28	4
7	107	2.80	0.53	1.88	2
9	109	2.80	0.53	1.88	2
210	310	1.05	0.28	2.65	2
12	112	2.80	0.53	1.91	2
14	114	2.80	0.53	1.91	2
215	315	1.05	0.29	2.72	2
17	117	2.80	0.54	1.93	2
19	119	2.80	0.54	1.93	2
220	320	1.05	0.29	2.73	4

N1	N2	h <m>	δ <cm>	δ/h	CC
2	102	2.80	0.52	1.86	2
103	203	3.55	1.03	2.91	2
204	304	1.05	0.24	2.30	6
6	106	2.80	0.53	1.89	2
107	307	4.60	1.28	2.79	2
109	309	4.60	1.28	2.79	2
11	111	2.80	0.54	1.91	2
112	312	4.60	1.30	2.83	2
114	314	4.60	1.30	2.83	2
16	116	2.80	0.54	1.94	2
117	317	4.60	1.32	2.88	2
119	319	4.60	1.32	2.88	2

Min = 1.85
Max = 2.99

Tensioni sul terreno

Simbologia

σ_t = Tensione sul terreno
CC = Numero della combinazione delle condizioni di carico elementari
Nodo = Numero del nodo
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)

Nodo	CC	TCC	σ_t <daN/cmq>
-916	1	SLV	0.98
-914	1	SLV	0.67
-912	1	SLV	0.47
-910	1	SLV	0.44
-908	1	SLV	0.53
-906	1	SLV	0.62
-904	1	SLV	0.57
-902	1	SLV	0.49
-900	1	SLV	0.52
-898	1	SLV	0.62
-896	1	SLV	0.62
-894	1	SLV	0.52
-892	1	SLV	0.49
-890	1	SLV	0.57
-888	1	SLV	0.62
-886	1	SLV	0.53
-884	1	SLV	0.44
-882	1	SLV	0.47
-880	1	SLV	0.67
-878	1	SLV	0.98
-876	1	SLV	0.65
-874	1	SLV	0.46
-872	1	SLV	0.43
-870	1	SLV	0.51
-868	1	SLV	0.59
-866	1	SLV	0.51
-864	1	SLV	0.48
-862	1	SLV	0.55
-860	1	SLV	0.59
-858	1	SLV	0.50
-856	1	SLV	0.48
-854	1	SLV	0.55
-852	1	SLV	0.57
-850	1	SLV	0.46
-848	1	SLV	0.42
-846	1	SLV	0.53
-844	1	SLV	0.79
-842	1	SLV	0.71
-840	1	SLV	0.48
-838	1	SLV	0.38

Nodo	CC	TCC	σ_t <daN/cmq>
-916	1	SLV	0.68
-914	1	SLV	0.52
-912	1	SLV	0.40
-910	1	SLV	0.38
-908	1	SLV	0.46
-906	1	SLV	0.55
-904	1	SLV	0.49
-902	1	SLV	0.44
-900	1	SLV	0.46
-898	1	SLV	0.53
-896	1	SLV	0.53
-894	1	SLV	0.46
-892	1	SLV	0.44
-890	1	SLV	0.49
-888	1	SLV	0.55
-886	1	SLV	0.46
-884	1	SLV	0.38
-882	1	SLV	0.40
-880	1	SLV	0.52
-878	1	SLV	0.68
-876	1	SLV	0.51
-874	1	SLV	0.39
-872	1	SLV	0.37
-870	1	SLV	0.44
-868	1	SLV	0.51
-866	1	SLV	0.44
-864	1	SLV	0.43
-862	1	SLV	0.48
-860	1	SLV	0.52
-858	1	SLV	0.45
-856	1	SLV	0.43
-854	1	SLV	0.47
-852	1	SLV	0.50
-850	1	SLV	0.40
-848	1	SLV	0.36
-846	1	SLV	0.44
-844	1	SLV	0.60
-842	1	SLV	0.54
-840	1	SLV	0.40
-838	1	SLV	0.33

Nodo	CC	TCC	σ_t <daN/cmq>
-915	1	SLV	0.82
-913	1	SLV	0.55
-911	1	SLV	0.44
-909	1	SLV	0.48
-907	1	SLV	0.59
-905	1	SLV	0.62
-903	1	SLV	0.52
-901	1	SLV	0.49
-899	1	SLV	0.57
-897	1	SLV	0.63
-895	1	SLV	0.57
-893	1	SLV	0.49
-891	1	SLV	0.52
-889	1	SLV	0.62
-887	1	SLV	0.59
-885	1	SLV	0.48
-883	1	SLV	0.44
-881	1	SLV	0.55
-879	1	SLV	0.82
-877	1	SLV	0.79
-875	1	SLV	0.53
-873	1	SLV	0.42
-871	1	SLV	0.46
-869	1	SLV	0.57
-867	1	SLV	0.55
-865	1	SLV	0.48
-863	1	SLV	0.50
-861	1	SLV	0.59
-859	1	SLV	0.55
-857	1	SLV	0.48
-855	1	SLV	0.51
-853	1	SLV	0.59
-851	1	SLV	0.51
-849	1	SLV	0.43
-847	1	SLV	0.46
-845	1	SLV	0.65
-843	1	SLV	0.85
-841	1	SLV	0.58
-839	1	SLV	0.41
-837	1	SLV	0.37

Nodo	CC	TCC	σ_t <daN/cmq>
-915	1	SLV	0.61
-913	1	SLV	0.45
-911	1	SLV	0.37
-909	1	SLV	0.41
-907	1	SLV	0.52
-905	1	SLV	0.53
-903	1	SLV	0.46
-901	1	SLV	0.44
-899	1	SLV	0.49
-897	1	SLV	0.57
-895	1	SLV	0.49
-893	1	SLV	0.44
-891	1	SLV	0.46
-889	1	SLV	0.53
-887	1	SLV	0.52
-885	1	SLV	0.41
-883	1	SLV	0.37
-881	1	SLV	0.45
-879	1	SLV	0.61
-877	1	SLV	0.60
-875	1	SLV	0.44
-873	1	SLV	0.36
-871	1	SLV	0.40
-869	1	SLV	0.50
-867	1	SLV	0.47
-865	1	SLV	0.43
-863	1	SLV	0.45
-861	1	SLV	0.52
-859	1	SLV	0.48
-857	1	SLV	0.43
-855	1	SLV	0.44
-853	1	SLV	0.51
-851	1	SLV	0.44
-849	1	SLV	0.37
-847	1	SLV	0.39
-845	1	SLV	0.51
-843	1	SLV	0.62
-841	1	SLV	0.46
-839	1	SLV	0.35
-837	1	SLV	0.33

-836	1	SLV	0.40	-836	1	SLV	0.36	-835	1	SLV	0.44	-835	1	SLV	0.39
-834	1	SLV	0.48	-834	1	SLV	0.44	-833	1	SLV	0.50	-833	1	SLV	0.46
-832	1	SLV	0.50	-832	1	SLV	0.45	-831	1	SLV	0.47	-831	1	SLV	0.42
-830	1	SLV	0.44	-830	1	SLV	0.40	-829	1	SLV	0.42	-829	1	SLV	0.39
-828	1	SLV	0.42	-828	1	SLV	0.39	-827	1	SLV	0.44	-827	1	SLV	0.40
-826	1	SLV	0.48	-826	1	SLV	0.43	-825	1	SLV	0.51	-825	1	SLV	0.46
-824	1	SLV	0.51	-824	1	SLV	0.48	-823	1	SLV	0.51	-823	1	SLV	0.46
-822	1	SLV	0.48	-822	1	SLV	0.43	-821	1	SLV	0.44	-821	1	SLV	0.40
-820	1	SLV	0.42	-820	1	SLV	0.39	-819	1	SLV	0.42	-819	1	SLV	0.39
-818	1	SLV	0.44	-818	1	SLV	0.40	-817	1	SLV	0.47	-817	1	SLV	0.42
-816	1	SLV	0.50	-816	1	SLV	0.45	-815	1	SLV	0.50	-815	1	SLV	0.46
-814	1	SLV	0.48	-814	1	SLV	0.44	-813	1	SLV	0.44	-813	1	SLV	0.39
-812	1	SLV	0.40	-812	1	SLV	0.36	-811	1	SLV	0.37	-811	1	SLV	0.33
-810	1	SLV	0.38	-810	1	SLV	0.33	-809	1	SLV	0.41	-809	1	SLV	0.35
-808	1	SLV	0.48	-808	1	SLV	0.40	-807	1	SLV	0.58	-807	1	SLV	0.46
-806	1	SLV	0.71	-806	1	SLV	0.54	-805	1	SLV	0.85	-805	1	SLV	0.62
-804	1	SLV	0.75	-804	1	SLV	0.56	-803	1	SLV	0.63	-803	1	SLV	0.49
-802	1	SLV	0.52	-802	1	SLV	0.42	-801	1	SLV	0.43	-801	1	SLV	0.36
-800	1	SLV	0.36	-800	1	SLV	0.32	-799	1	SLV	0.33	-799	1	SLV	0.30
-798	1	SLV	0.33	-798	1	SLV	0.30	-797	1	SLV	0.35	-797	1	SLV	0.32
-796	1	SLV	0.37	-796	1	SLV	0.35	-795	1	SLV	0.40	-795	1	SLV	0.38
-794	1	SLV	0.42	-794	1	SLV	0.39	-793	1	SLV	0.42	-793	1	SLV	0.39
-792	1	SLV	0.41	-792	1	SLV	0.37	-791	1	SLV	0.39	-791	1	SLV	0.36
-790	1	SLV	0.37	-790	1	SLV	0.35	-789	1	SLV	0.37	-789	1	SLV	0.35
-788	1	SLV	0.39	-788	1	SLV	0.36	-787	1	SLV	0.41	-787	1	SLV	0.38
-786	1	SLV	0.43	-786	1	SLV	0.40	-785	1	SLV	0.43	-785	1	SLV	0.41
-784	1	SLV	0.43	-784	1	SLV	0.40	-783	1	SLV	0.41	-783	1	SLV	0.38
-782	1	SLV	0.39	-782	1	SLV	0.36	-781	1	SLV	0.37	-781	1	SLV	0.35
-780	1	SLV	0.37	-780	1	SLV	0.35	-779	1	SLV	0.39	-779	1	SLV	0.36
-778	1	SLV	0.41	-778	1	SLV	0.37	-777	1	SLV	0.42	-777	1	SLV	0.39
-776	1	SLV	0.42	-776	1	SLV	0.39	-775	1	SLV	0.40	-775	1	SLV	0.38
-774	1	SLV	0.37	-774	1	SLV	0.35	-773	1	SLV	0.35	-773	1	SLV	0.32
-772	1	SLV	0.33	-772	1	SLV	0.30	-771	1	SLV	0.33	-771	1	SLV	0.30
-770	1	SLV	0.36	-770	1	SLV	0.32	-769	1	SLV	0.43	-769	1	SLV	0.36
-768	1	SLV	0.52	-768	1	SLV	0.42	-767	1	SLV	0.63	-767	1	SLV	0.49
-766	1	SLV	0.75	-766	1	SLV	0.56	-765	1	SLV	0.69	-765	1	SLV	0.52
-764	1	SLV	0.58	-764	1	SLV	0.45	-763	1	SLV	0.47	-763	1	SLV	0.39
-762	1	SLV	0.39	-762	1	SLV	0.33	-761	1	SLV	0.33	-761	1	SLV	0.30
-760	1	SLV	0.30	-760	1	SLV	0.28	-759	1	SLV	0.29	-759	1	SLV	0.28
-758	1	SLV	0.31	-758	1	SLV	0.29	-757	1	SLV	0.33	-757	1	SLV	0.32
-756	1	SLV	0.35	-756	1	SLV	0.34	-755	1	SLV	0.37	-755	1	SLV	0.35
-754	1	SLV	0.37	-754	1	SLV	0.35	-753	1	SLV	0.36	-753	1	SLV	0.34
-752	1	SLV	0.35	-752	1	SLV	0.33	-751	1	SLV	0.34	-751	1	SLV	0.32
-750	1	SLV	0.34	-750	1	SLV	0.32	-749	1	SLV	0.35	-749	1	SLV	0.33
-748	1	SLV	0.37	-748	1	SLV	0.35	-747	1	SLV	0.38	-747	1	SLV	0.36
-746	1	SLV	0.38	-746	1	SLV	0.37	-745	1	SLV	0.38	-745	1	SLV	0.36
-744	1	SLV	0.37	-744	1	SLV	0.35	-743	1	SLV	0.35	-743	1	SLV	0.33
-742	1	SLV	0.34	-742	1	SLV	0.32	-741	1	SLV	0.34	-741	1	SLV	0.32
-740	1	SLV	0.35	-740	1	SLV	0.33	-739	1	SLV	0.36	-739	1	SLV	0.34
-738	1	SLV	0.37	-738	1	SLV	0.35	-737	1	SLV	0.37	-737	1	SLV	0.35
-736	1	SLV	0.35	-736	1	SLV	0.34	-735	1	SLV	0.33	-735	1	SLV	0.32

-734	1	SLV	0.31	-734	1	SLV	0.29	-733	1	SLV	0.29	-733	1	SLV	0.28
-732	1	SLV	0.30	-732	1	SLV	0.28	-731	1	SLV	0.33	-731	1	SLV	0.30
-730	1	SLV	0.39	-730	1	SLV	0.33	-729	1	SLV	0.47	-729	1	SLV	0.39
-728	1	SLV	0.58	-728	1	SLV	0.45	-727	1	SLV	0.69	-727	1	SLV	0.52
-726	1	SLV	0.66	-726	1	SLV	0.51	-725	1	SLV	0.55	-725	1	SLV	0.44
-724	1	SLV	0.45	-724	1	SLV	0.38	-723	1	SLV	0.37	-723	1	SLV	0.32
-722	1	SLV	0.31	-722	1	SLV	0.28	-721	1	SLV	0.28	-721	1	SLV	0.26
-720	1	SLV	0.27	-720	1	SLV	0.26	-719	1	SLV	0.28	-719	1	SLV	0.28
-718	1	SLV	0.31	-718	1	SLV	0.30	-717	1	SLV	0.33	-717	1	SLV	0.32
-716	1	SLV	0.35	-716	1	SLV	0.33	-715	1	SLV	0.35	-715	1	SLV	0.33
-714	1	SLV	0.34	-714	1	SLV	0.32	-713	1	SLV	0.33	-713	1	SLV	0.31
-712	1	SLV	0.32	-712	1	SLV	0.31	-711	1	SLV	0.31	-711	1	SLV	0.31
-710	1	SLV	0.33	-710	1	SLV	0.32	-709	1	SLV	0.34	-709	1	SLV	0.33
-708	1	SLV	0.36	-708	1	SLV	0.34	-707	1	SLV	0.36	-707	1	SLV	0.35
-706	1	SLV	0.36	-706	1	SLV	0.34	-705	1	SLV	0.34	-705	1	SLV	0.33
-704	1	SLV	0.33	-704	1	SLV	0.32	-703	1	SLV	0.31	-703	1	SLV	0.31
-702	1	SLV	0.32	-702	1	SLV	0.31	-701	1	SLV	0.33	-701	1	SLV	0.31
-700	1	SLV	0.34	-700	1	SLV	0.32	-699	1	SLV	0.35	-699	1	SLV	0.33
-698	1	SLV	0.35	-698	1	SLV	0.33	-697	1	SLV	0.33	-697	1	SLV	0.32
-696	1	SLV	0.31	-696	1	SLV	0.30	-695	1	SLV	0.28	-695	1	SLV	0.28
-694	1	SLV	0.27	-694	1	SLV	0.26	-693	1	SLV	0.28	-693	1	SLV	0.26
-692	1	SLV	0.31	-692	1	SLV	0.28	-691	1	SLV	0.37	-691	1	SLV	0.32
-690	1	SLV	0.45	-690	1	SLV	0.38	-689	1	SLV	0.55	-689	1	SLV	0.44
-688	1	SLV	0.66	-688	1	SLV	0.51	-687	1	SLV	0.67	-687	1	SLV	0.52
-686	1	SLV	0.55	-686	1	SLV	0.45	-685	1	SLV	0.45	-685	1	SLV	0.38
-684	1	SLV	0.36	-684	1	SLV	0.32	-683	1	SLV	0.30	-683	1	SLV	0.28
-682	1	SLV	0.27	-682	1	SLV	0.26	-681	1	SLV	0.26	-681	1	SLV	0.26
-680	1	SLV	0.28	-680	1	SLV	0.27	-679	1	SLV	0.30	-679	1	SLV	0.30
-678	1	SLV	0.33	-678	1	SLV	0.32	-677	1	SLV	0.35	-677	1	SLV	0.34
-676	1	SLV	0.35	-676	1	SLV	0.33	-675	1	SLV	0.34	-675	1	SLV	0.32
-674	1	SLV	0.32	-674	1	SLV	0.31	-673	1	SLV	0.30	-673	1	SLV	0.30
-672	1	SLV	0.30	-672	1	SLV	0.30	-671	1	SLV	0.32	-671	1	SLV	0.31
-670	1	SLV	0.34	-670	1	SLV	0.33	-669	1	SLV	0.36	-669	1	SLV	0.35
-668	1	SLV	0.36	-668	1	SLV	0.36	-667	1	SLV	0.36	-667	1	SLV	0.35
-666	1	SLV	0.34	-666	1	SLV	0.33	-665	1	SLV	0.32	-665	1	SLV	0.31
-664	1	SLV	0.30	-664	1	SLV	0.30	-663	1	SLV	0.30	-663	1	SLV	0.30
-662	1	SLV	0.32	-662	1	SLV	0.31	-661	1	SLV	0.34	-661	1	SLV	0.32
-660	1	SLV	0.35	-660	1	SLV	0.33	-659	1	SLV	0.35	-659	1	SLV	0.34
-658	1	SLV	0.33	-658	1	SLV	0.32	-657	1	SLV	0.30	-657	1	SLV	0.30
-656	1	SLV	0.28	-656	1	SLV	0.27	-655	1	SLV	0.26	-655	1	SLV	0.26
-654	1	SLV	0.27	-654	1	SLV	0.26	-653	1	SLV	0.30	-653	1	SLV	0.28
-652	1	SLV	0.36	-652	1	SLV	0.32	-651	1	SLV	0.45	-651	1	SLV	0.38
-650	1	SLV	0.55	-650	1	SLV	0.45	-649	1	SLV	0.67	-649	1	SLV	0.52
-648	1	SLV	0.71	-648	1	SLV	0.55	-647	1	SLV	0.57	-647	1	SLV	0.47
-646	1	SLV	0.45	-646	1	SLV	0.39	-645	1	SLV	0.36	-645	1	SLV	0.33
-644	1	SLV	0.30	-644	1	SLV	0.28	-643	1	SLV	0.27	-643	1	SLV	0.26
-642	1	SLV	0.26	-642	1	SLV	0.26	-641	1	SLV	0.28	-641	1	SLV	0.27
-640	1	SLV	0.31	-640	1	SLV	0.30	-639	1	SLV	0.34	-639	1	SLV	0.34
-638	1	SLV	0.37	-638	1	SLV	0.36	-637	1	SLV	0.36	-637	1	SLV	0.35
-636	1	SLV	0.34	-636	1	SLV	0.32	-635	1	SLV	0.32	-635	1	SLV	0.31
-634	1	SLV	0.30	-634	1	SLV	0.30	-633	1	SLV	0.30	-633	1	SLV	0.30

-632	1	SLV	0.32	-632	1	SLV	0.31	-631	1	SLV	0.35	-631	1	SLV	0.33
-630	1	SLV	0.37	-630	1	SLV	0.36	-629	1	SLV	0.38	-629	1	SLV	0.38
-628	1	SLV	0.37	-628	1	SLV	0.36	-627	1	SLV	0.35	-627	1	SLV	0.33
-626	1	SLV	0.32	-626	1	SLV	0.31	-625	1	SLV	0.30	-625	1	SLV	0.30
-624	1	SLV	0.30	-624	1	SLV	0.30	-623	1	SLV	0.32	-623	1	SLV	0.31
-622	1	SLV	0.34	-622	1	SLV	0.32	-621	1	SLV	0.36	-621	1	SLV	0.35
-620	1	SLV	0.37	-620	1	SLV	0.36	-619	1	SLV	0.34	-619	1	SLV	0.34
-618	1	SLV	0.31	-618	1	SLV	0.30	-617	1	SLV	0.28	-617	1	SLV	0.27
-616	1	SLV	0.26	-616	1	SLV	0.26	-615	1	SLV	0.27	-615	1	SLV	0.26
-614	1	SLV	0.30	-614	1	SLV	0.28	-613	1	SLV	0.36	-613	1	SLV	0.33
-612	1	SLV	0.45	-612	1	SLV	0.39	-611	1	SLV	0.57	-611	1	SLV	0.47
-610	1	SLV	0.71	-610	1	SLV	0.55	-609	1	SLV	0.58	-609	1	SLV	0.49
-608	1	SLV	0.45	-608	1	SLV	0.40	-607	1	SLV	0.36	-607	1	SLV	0.33
-606	1	SLV	0.30	-606	1	SLV	0.28	-605	1	SLV	0.27	-605	1	SLV	0.26
-604	1	SLV	0.26	-604	1	SLV	0.26	-603	1	SLV	0.28	-603	1	SLV	0.27
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-600	1	SLV	0.38	-600	1	SLV	0.35	-599	1	SLV	0.35	-599	1	SLV	0.33
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-596	1	SLV	0.30	-596	1	SLV	0.30	-595	1	SLV	0.32	-595	1	SLV	0.31
-594	1	SLV	0.35	-594	1	SLV	0.34	-593	1	SLV	0.38	-593	1	SLV	0.37
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-590	1	SLV	0.32	-590	1	SLV	0.31	-589	1	SLV	0.30	-589	1	SLV	0.30
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-586	1	SLV	0.35	-586	1	SLV	0.33	-585	1	SLV	0.38	-585	1	SLV	0.35
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-580	1	SLV	0.27	-580	1	SLV	0.26	-579	1	SLV	0.30	-579	1	SLV	0.28
-578	1	SLV	0.36	-578	1	SLV	0.33	-577	1	SLV	0.45	-577	1	SLV	0.40
-576	1	SLV	0.58	-576	1	SLV	0.49	-575	1	SLV	0.71	-575	1	SLV	0.56
-574	1	SLV	0.57	-574	1	SLV	0.48	-573	1	SLV	0.45	-573	1	SLV	0.40
-572	1	SLV	0.36	-572	1	SLV	0.33	-571	1	SLV	0.30	-571	1	SLV	0.28
-570	1	SLV	0.27	-570	1	SLV	0.26	-569	1	SLV	0.26	-569	1	SLV	0.26
-568	1	SLV	0.28	-568	1	SLV	0.27	-567	1	SLV	0.31	-567	1	SLV	0.30
-566	1	SLV	0.35	-566	1	SLV	0.34	-565	1	SLV	0.37	-565	1	SLV	0.36
-564	1	SLV	0.37	-564	1	SLV	0.35	-563	1	SLV	0.34	-563	1	SLV	0.32
-562	1	SLV	0.32	-562	1	SLV	0.30	-561	1	SLV	0.30	-561	1	SLV	0.30
-560	1	SLV	0.30	-560	1	SLV	0.30	-559	1	SLV	0.32	-559	1	SLV	0.31
-558	1	SLV	0.35	-558	1	SLV	0.33	-557	1	SLV	0.38	-557	1	SLV	0.36
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-552	1	SLV	0.30	-552	1	SLV	0.30	-551	1	SLV	0.30	-551	1	SLV	0.30
-550	1	SLV	0.32	-550	1	SLV	0.30	-549	1	SLV	0.34	-549	1	SLV	0.32
-548	1	SLV	0.37	-548	1	SLV	0.35	-547	1	SLV	0.37	-547	1	SLV	0.36
-546	1	SLV	0.35	-546	1	SLV	0.34	-545	1	SLV	0.31	-545	1	SLV	0.30
-544	1	SLV	0.28	-544	1	SLV	0.27	-543	1	SLV	0.26	-543	1	SLV	0.26
-542	1	SLV	0.27	-542	1	SLV	0.26	-541	1	SLV	0.30	-541	1	SLV	0.28
-540	1	SLV	0.36	-540	1	SLV	0.33	-539	1	SLV	0.45	-539	1	SLV	0.40
-538	1	SLV	0.57	-538	1	SLV	0.48	-537	1	SLV	0.71	-537	1	SLV	0.56
-536	1	SLV	0.67	-536	1	SLV	0.54	-535	1	SLV	0.55	-535	1	SLV	0.46
-534	1	SLV	0.44	-534	1	SLV	0.38	-533	1	SLV	0.36	-533	1	SLV	0.32
-532	1	SLV	0.30	-532	1	SLV	0.28	-531	1	SLV	0.27	-531	1	SLV	0.26

-530	1	SLV	0.26	-530	1	SLV	0.26	-529	1	SLV	0.28	-529	1	SLV	0.27
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-526	1	SLV	0.35	-526	1	SLV	0.34	-525	1	SLV	0.35	-525	1	SLV	0.33
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-522	1	SLV	0.30	-522	1	SLV	0.30	-521	1	SLV	0.30	-521	1	SLV	0.30
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-518	1	SLV	0.36	-518	1	SLV	0.35	-517	1	SLV	0.36	-517	1	SLV	0.36
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-510	1	SLV	0.34	-510	1	SLV	0.32	-509	1	SLV	0.35	-509	1	SLV	0.33
-508	1	SLV	0.35	-508	1	SLV	0.34	-507	1	SLV	0.33	-507	1	SLV	0.32
-506	1	SLV	0.30	-506	1	SLV	0.30	-505	1	SLV	0.28	-505	1	SLV	0.27
-504	1	SLV	0.26	-504	1	SLV	0.26	-503	1	SLV	0.27	-503	1	SLV	0.26
-502	1	SLV	0.30	-502	1	SLV	0.28	-501	1	SLV	0.36	-501	1	SLV	0.32
-500	1	SLV	0.44	-500	1	SLV	0.38	-499	1	SLV	0.55	-499	1	SLV	0.46
-498	1	SLV	0.67	-498	1	SLV	0.54	-497	1	SLV	0.64	-497	1	SLV	0.52
-496	1	SLV	0.53	-496	1	SLV	0.45	-495	1	SLV	0.43	-495	1	SLV	0.38
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-492	1	SLV	0.26	-492	1	SLV	0.26	-491	1	SLV	0.26	-491	1	SLV	0.26
-490	1	SLV	0.27	-490	1	SLV	0.27	-489	1	SLV	0.30	-489	1	SLV	0.29
-488	1	SLV	0.32	-488	1	SLV	0.31	-487	1	SLV	0.33	-487	1	SLV	0.32
-486	1	SLV	0.34	-486	1	SLV	0.32	-485	1	SLV	0.33	-485	1	SLV	0.31
-484	1	SLV	0.31	-484	1	SLV	0.30	-483	1	SLV	0.30	-483	1	SLV	0.30
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-480	1	SLV	0.33	-480	1	SLV	0.32	-479	1	SLV	0.34	-479	1	SLV	0.34
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-476	1	SLV	0.33	-476	1	SLV	0.32	-475	1	SLV	0.31	-475	1	SLV	0.31
-474	1	SLV	0.30	-474	1	SLV	0.30	-473	1	SLV	0.30	-473	1	SLV	0.30
-472	1	SLV	0.31	-472	1	SLV	0.30	-471	1	SLV	0.33	-471	1	SLV	0.31
-470	1	SLV	0.34	-470	1	SLV	0.32	-469	1	SLV	0.33	-469	1	SLV	0.32
-468	1	SLV	0.32	-468	1	SLV	0.31	-467	1	SLV	0.30	-467	1	SLV	0.29
-466	1	SLV	0.27	-466	1	SLV	0.27	-465	1	SLV	0.26	-465	1	SLV	0.26
-464	1	SLV	0.26	-464	1	SLV	0.26	-463	1	SLV	0.29	-463	1	SLV	0.28
-462	1	SLV	0.35	-462	1	SLV	0.32	-461	1	SLV	0.43	-461	1	SLV	0.38
-460	1	SLV	0.53	-460	1	SLV	0.45	-459	1	SLV	0.64	-459	1	SLV	0.52
-458	1	SLV	0.64	-458	1	SLV	0.52	-457	1	SLV	0.53	-457	1	SLV	0.45
-456	1	SLV	0.43	-456	1	SLV	0.38	-455	1	SLV	0.35	-455	1	SLV	0.32
-454	1	SLV	0.29	-454	1	SLV	0.28	-453	1	SLV	0.26	-453	1	SLV	0.26
-452	1	SLV	0.26	-452	1	SLV	0.26	-451	1	SLV	0.27	-451	1	SLV	0.27
-450	1	SLV	0.30	-450	1	SLV	0.29	-449	1	SLV	0.32	-449	1	SLV	0.31
-448	1	SLV	0.33	-448	1	SLV	0.32	-447	1	SLV	0.34	-447	1	SLV	0.32
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-444	1	SLV	0.30	-444	1	SLV	0.30	-443	1	SLV	0.30	-443	1	SLV	0.30
-442	1	SLV	0.31	-442	1	SLV	0.31	-441	1	SLV	0.33	-441	1	SLV	0.32
-440	1	SLV	0.34	-440	1	SLV	0.34	-439	1	SLV	0.35	-439	1	SLV	0.35
-438	1	SLV	0.34	-438	1	SLV	0.34	-437	1	SLV	0.33	-437	1	SLV	0.32
-436	1	SLV	0.31	-436	1	SLV	0.31	-435	1	SLV	0.30	-435	1	SLV	0.30
-434	1	SLV	0.30	-434	1	SLV	0.30	-433	1	SLV	0.31	-433	1	SLV	0.30
-432	1	SLV	0.33	-432	1	SLV	0.31	-431	1	SLV	0.34	-431	1	SLV	0.32
-430	1	SLV	0.33	-430	1	SLV	0.32	-429	1	SLV	0.32	-429	1	SLV	0.31

-428	1	SLV	0.30	-428	1	SLV	0.29	-427	1	SLV	0.27	-427	1	SLV	0.27
-426	1	SLV	0.26	-426	1	SLV	0.26	-425	1	SLV	0.26	-425	1	SLV	0.26
-424	1	SLV	0.29	-424	1	SLV	0.28	-423	1	SLV	0.35	-423	1	SLV	0.32
-422	1	SLV	0.43	-422	1	SLV	0.38	-421	1	SLV	0.53	-421	1	SLV	0.45
-420	1	SLV	0.64	-420	1	SLV	0.52	-419	1	SLV	0.67	-419	1	SLV	0.53
-418	1	SLV	0.55	-418	1	SLV	0.46	-417	1	SLV	0.44	-417	1	SLV	0.38
-416	1	SLV	0.36	-416	1	SLV	0.32	-415	1	SLV	0.30	-415	1	SLV	0.28
-414	1	SLV	0.27	-414	1	SLV	0.26	-413	1	SLV	0.26	-413	1	SLV	0.26
-412	1	SLV	0.28	-412	1	SLV	0.27	-411	1	SLV	0.30	-411	1	SLV	0.30
-410	1	SLV	0.33	-410	1	SLV	0.32	-409	1	SLV	0.35	-409	1	SLV	0.33
-408	1	SLV	0.35	-408	1	SLV	0.33	-407	1	SLV	0.34	-407	1	SLV	0.32
-406	1	SLV	0.32	-406	1	SLV	0.30	-405	1	SLV	0.30	-405	1	SLV	0.30
-404	1	SLV	0.30	-404	1	SLV	0.30	-403	1	SLV	0.32	-403	1	SLV	0.31
-402	1	SLV	0.34	-402	1	SLV	0.33	-401	1	SLV	0.36	-401	1	SLV	0.35
-400	1	SLV	0.36	-400	1	SLV	0.36	-399	1	SLV	0.36	-399	1	SLV	0.35
-398	1	SLV	0.34	-398	1	SLV	0.33	-397	1	SLV	0.32	-397	1	SLV	0.31
-396	1	SLV	0.30	-396	1	SLV	0.30	-395	1	SLV	0.30	-395	1	SLV	0.30
-394	1	SLV	0.32	-394	1	SLV	0.30	-393	1	SLV	0.34	-393	1	SLV	0.32
-392	1	SLV	0.35	-392	1	SLV	0.33	-391	1	SLV	0.35	-391	1	SLV	0.33
-390	1	SLV	0.33	-390	1	SLV	0.32	-389	1	SLV	0.30	-389	1	SLV	0.30
-388	1	SLV	0.28	-388	1	SLV	0.27	-387	1	SLV	0.26	-387	1	SLV	0.26
-386	1	SLV	0.27	-386	1	SLV	0.26	-385	1	SLV	0.30	-385	1	SLV	0.28
-384	1	SLV	0.36	-384	1	SLV	0.32	-383	1	SLV	0.44	-383	1	SLV	0.38
-382	1	SLV	0.55	-382	1	SLV	0.46	-381	1	SLV	0.67	-381	1	SLV	0.53
-380	1	SLV	0.70	-380	1	SLV	0.56	-379	1	SLV	0.57	-379	1	SLV	0.47
-378	1	SLV	0.45	-378	1	SLV	0.39	-377	1	SLV	0.36	-377	1	SLV	0.33
-376	1	SLV	0.30	-376	1	SLV	0.28	-375	1	SLV	0.27	-375	1	SLV	0.26
-374	1	SLV	0.26	-374	1	SLV	0.26	-373	1	SLV	0.28	-373	1	SLV	0.27
-372	1	SLV	0.31	-372	1	SLV	0.31	-371	1	SLV	0.35	-371	1	SLV	0.34
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-366	1	SLV	0.31	-366	1	SLV	0.30	-365	1	SLV	0.30	-365	1	SLV	0.30
-364	1	SLV	0.32	-364	1	SLV	0.31	-363	1	SLV	0.35	-363	1	SLV	0.33
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-360	1	SLV	0.38	-360	1	SLV	0.36	-359	1	SLV	0.35	-359	1	SLV	0.33
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-354	1	SLV	0.35	-354	1	SLV	0.32	-353	1	SLV	0.37	-353	1	SLV	0.35
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-350	1	SLV	0.31	-350	1	SLV	0.31	-349	1	SLV	0.28	-349	1	SLV	0.27
-348	1	SLV	0.26	-348	1	SLV	0.26	-347	1	SLV	0.27	-347	1	SLV	0.26
-346	1	SLV	0.30	-346	1	SLV	0.28	-345	1	SLV	0.36	-345	1	SLV	0.33
-344	1	SLV	0.45	-344	1	SLV	0.39	-343	1	SLV	0.57	-343	1	SLV	0.47
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-340	1	SLV	0.45	-340	1	SLV	0.40	-339	1	SLV	0.36	-339	1	SLV	0.33
-338	1	SLV	0.30	-338	1	SLV	0.28	-337	1	SLV	0.27	-337	1	SLV	0.26
-336	1	SLV	0.26	-336	1	SLV	0.26	-335	1	SLV	0.28	-335	1	SLV	0.28
-334	1	SLV	0.32	-334	1	SLV	0.31	-333	1	SLV	0.36	-333	1	SLV	0.35
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-330	1	SLV	0.32	-330	1	SLV	0.31	-329	1	SLV	0.31	-329	1	SLV	0.30
-328	1	SLV	0.30	-328	1	SLV	0.30	-327	1	SLV	0.32	-327	1	SLV	0.31

-326	1	SLV	0.35	-326	1	SLV	0.34	-325	1	SLV	0.38	-325	1	SLV	0.37
-324	1	SLV	0.38	-324	1	SLV	0.37	-323	1	SLV	0.35	-323	1	SLV	0.34
-322	1	SLV	0.32	-322	1	SLV	0.31	-321	1	SLV	0.30	-321	1	SLV	0.30
-320	1	SLV	0.31	-320	1	SLV	0.30	-319	1	SLV	0.32	-319	1	SLV	0.31
-318	1	SLV	0.35	-318	1	SLV	0.33	-317	1	SLV	0.38	-317	1	SLV	0.35
-316	1	SLV	0.36	-316	1	SLV	0.35	-315	1	SLV	0.32	-315	1	SLV	0.31
-314	1	SLV	0.28	-314	1	SLV	0.28	-313	1	SLV	0.26	-313	1	SLV	0.26
-312	1	SLV	0.27	-312	1	SLV	0.26	-311	1	SLV	0.30	-311	1	SLV	0.28
-310	1	SLV	0.36	-310	1	SLV	0.33	-309	1	SLV	0.45	-309	1	SLV	0.40
-308	1	SLV	0.58	-308	1	SLV	0.48	-307	1	SLV	0.70	-307	1	SLV	0.54
-306	1	SLV	0.57	-306	1	SLV	0.46	-305	1	SLV	0.45	-305	1	SLV	0.39
-304	1	SLV	0.36	-304	1	SLV	0.32	-303	1	SLV	0.30	-303	1	SLV	0.28
-302	1	SLV	0.27	-302	1	SLV	0.26	-301	1	SLV	0.26	-301	1	SLV	0.26
-300	1	SLV	0.28	-300	1	SLV	0.27	-299	1	SLV	0.31	-299	1	SLV	0.31
-298	1	SLV	0.34	-298	1	SLV	0.34	-297	1	SLV	0.37	-297	1	SLV	0.36
-296	1	SLV	0.36	-296	1	SLV	0.35	-295	1	SLV	0.34	-295	1	SLV	0.32
-294	1	SLV	0.32	-294	1	SLV	0.30	-293	1	SLV	0.30	-293	1	SLV	0.30
-292	1	SLV	0.30	-292	1	SLV	0.30	-291	1	SLV	0.32	-291	1	SLV	0.31
-290	1	SLV	0.34	-290	1	SLV	0.33	-289	1	SLV	0.37	-289	1	SLV	0.36
-288	1	SLV	0.38	-288	1	SLV	0.38	-287	1	SLV	0.37	-287	1	SLV	0.36
-286	1	SLV	0.34	-286	1	SLV	0.33	-285	1	SLV	0.32	-285	1	SLV	0.31
-284	1	SLV	0.30	-284	1	SLV	0.30	-283	1	SLV	0.30	-283	1	SLV	0.30
-282	1	SLV	0.32	-282	1	SLV	0.30	-281	1	SLV	0.34	-281	1	SLV	0.32
-280	1	SLV	0.36	-280	1	SLV	0.35	-279	1	SLV	0.37	-279	1	SLV	0.36
-278	1	SLV	0.34	-278	1	SLV	0.34	-277	1	SLV	0.31	-277	1	SLV	0.31
-276	1	SLV	0.28	-276	1	SLV	0.27	-275	1	SLV	0.26	-275	1	SLV	0.26
-274	1	SLV	0.27	-274	1	SLV	0.26	-273	1	SLV	0.30	-273	1	SLV	0.28
-272	1	SLV	0.36	-272	1	SLV	0.32	-271	1	SLV	0.45	-271	1	SLV	0.39
-270	1	SLV	0.57	-270	1	SLV	0.46	-269	1	SLV	0.70	-269	1	SLV	0.54
-268	1	SLV	0.66	-268	1	SLV	0.51	-267	1	SLV	0.55	-267	1	SLV	0.44
-266	1	SLV	0.44	-266	1	SLV	0.37	-265	1	SLV	0.36	-265	1	SLV	0.32
-264	1	SLV	0.30	-264	1	SLV	0.28	-263	1	SLV	0.27	-263	1	SLV	0.26
-262	1	SLV	0.26	-262	1	SLV	0.26	-261	1	SLV	0.28	-261	1	SLV	0.27
-260	1	SLV	0.30	-260	1	SLV	0.30	-259	1	SLV	0.33	-259	1	SLV	0.32
-258	1	SLV	0.34	-258	1	SLV	0.33	-257	1	SLV	0.35	-257	1	SLV	0.33
-256	1	SLV	0.33	-256	1	SLV	0.32	-255	1	SLV	0.31	-255	1	SLV	0.30
-254	1	SLV	0.30	-254	1	SLV	0.30	-253	1	SLV	0.30	-253	1	SLV	0.30
-252	1	SLV	0.32	-252	1	SLV	0.31	-251	1	SLV	0.34	-251	1	SLV	0.33
-250	1	SLV	0.35	-250	1	SLV	0.34	-249	1	SLV	0.36	-249	1	SLV	0.35
-248	1	SLV	0.35	-248	1	SLV	0.34	-247	1	SLV	0.34	-247	1	SLV	0.33
-246	1	SLV	0.32	-246	1	SLV	0.31	-245	1	SLV	0.30	-245	1	SLV	0.30
-244	1	SLV	0.30	-244	1	SLV	0.30	-243	1	SLV	0.31	-243	1	SLV	0.30
-242	1	SLV	0.33	-242	1	SLV	0.32	-241	1	SLV	0.35	-241	1	SLV	0.33
-240	1	SLV	0.34	-240	1	SLV	0.33	-239	1	SLV	0.33	-239	1	SLV	0.32
-238	1	SLV	0.30	-238	1	SLV	0.30	-237	1	SLV	0.28	-237	1	SLV	0.27
-236	1	SLV	0.26	-236	1	SLV	0.26	-235	1	SLV	0.27	-235	1	SLV	0.26
-234	1	SLV	0.30	-234	1	SLV	0.28	-233	1	SLV	0.36	-233	1	SLV	0.32
-232	1	SLV	0.44	-232	1	SLV	0.37	-231	1	SLV	0.55	-231	1	SLV	0.44
-230	1	SLV	0.66	-230	1	SLV	0.51	-229	1	SLV	0.65	-229	1	SLV	0.48
-228	1	SLV	0.54	-228	1	SLV	0.42	-227	1	SLV	0.44	-227	1	SLV	0.36
-226	1	SLV	0.36	-226	1	SLV	0.31	-225	1	SLV	0.31	-225	1	SLV	0.28

-224	1	SLV	0.28	-224	1	SLV	0.26	-223	1	SLV	0.27	-223	1	SLV	0.26
-222	1	SLV	0.28	-222	1	SLV	0.27	-221	1	SLV	0.30	-221	1	SLV	0.29
-220	1	SLV	0.32	-220	1	SLV	0.31	-219	1	SLV	0.34	-219	1	SLV	0.33
-218	1	SLV	0.34	-218	1	SLV	0.32	-217	1	SLV	0.33	-217	1	SLV	0.31
-216	1	SLV	0.32	-216	1	SLV	0.30	-215	1	SLV	0.31	-215	1	SLV	0.30
-214	1	SLV	0.31	-214	1	SLV	0.30	-213	1	SLV	0.32	-213	1	SLV	0.31
-212	1	SLV	0.34	-212	1	SLV	0.32	-211	1	SLV	0.35	-211	1	SLV	0.34
-210	1	SLV	0.35	-210	1	SLV	0.34	-209	1	SLV	0.35	-209	1	SLV	0.34
-208	1	SLV	0.34	-208	1	SLV	0.32	-207	1	SLV	0.32	-207	1	SLV	0.31
-206	1	SLV	0.31	-206	1	SLV	0.30	-205	1	SLV	0.31	-205	1	SLV	0.30
-204	1	SLV	0.32	-204	1	SLV	0.30	-203	1	SLV	0.33	-203	1	SLV	0.31
-202	1	SLV	0.34	-202	1	SLV	0.32	-201	1	SLV	0.34	-201	1	SLV	0.33
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-198	1	SLV	0.28	-198	1	SLV	0.27	-197	1	SLV	0.27	-197	1	SLV	0.26
-196	1	SLV	0.28	-196	1	SLV	0.26	-195	1	SLV	0.31	-195	1	SLV	0.28
-194	1	SLV	0.36	-194	1	SLV	0.31	-193	1	SLV	0.44	-193	1	SLV	0.36
-192	1	SLV	0.54	-192	1	SLV	0.42	-191	1	SLV	0.65	-191	1	SLV	0.48
-190	1	SLV	0.67	-190	1	SLV	0.48	-189	1	SLV	0.56	-189	1	SLV	0.42
-188	1	SLV	0.46	-188	1	SLV	0.36	-187	1	SLV	0.38	-187	1	SLV	0.32
-186	1	SLV	0.32	-186	1	SLV	0.28	-185	1	SLV	0.29	-185	1	SLV	0.26
-184	1	SLV	0.29	-184	1	SLV	0.27	-183	1	SLV	0.30	-183	1	SLV	0.28
-182	1	SLV	0.32	-182	1	SLV	0.30	-181	1	SLV	0.34	-181	1	SLV	0.32
-180	1	SLV	0.35	-180	1	SLV	0.34	-179	1	SLV	0.36	-179	1	SLV	0.33
-178	1	SLV	0.35	-178	1	SLV	0.32	-177	1	SLV	0.33	-177	1	SLV	0.31
-176	1	SLV	0.32	-176	1	SLV	0.31	-175	1	SLV	0.32	-175	1	SLV	0.31
-174	1	SLV	0.34	-174	1	SLV	0.32	-173	1	SLV	0.35	-173	1	SLV	0.33
-172	1	SLV	0.36	-172	1	SLV	0.35	-171	1	SLV	0.37	-171	1	SLV	0.35
-170	1	SLV	0.36	-170	1	SLV	0.35	-169	1	SLV	0.35	-169	1	SLV	0.33
-168	1	SLV	0.34	-168	1	SLV	0.32	-167	1	SLV	0.32	-167	1	SLV	0.31
-166	1	SLV	0.32	-166	1	SLV	0.31	-165	1	SLV	0.33	-165	1	SLV	0.31
-164	1	SLV	0.35	-164	1	SLV	0.32	-163	1	SLV	0.36	-163	1	SLV	0.33
-162	1	SLV	0.35	-162	1	SLV	0.34	-161	1	SLV	0.34	-161	1	SLV	0.32
-160	1	SLV	0.32	-160	1	SLV	0.30	-159	1	SLV	0.30	-159	1	SLV	0.28
-158	1	SLV	0.29	-158	1	SLV	0.27	-157	1	SLV	0.29	-157	1	SLV	0.26
-156	1	SLV	0.32	-156	1	SLV	0.28	-155	1	SLV	0.38	-155	1	SLV	0.32
-154	1	SLV	0.46	-154	1	SLV	0.36	-153	1	SLV	0.56	-153	1	SLV	0.42
-152	1	SLV	0.67	-152	1	SLV	0.48	-151	1	SLV	0.72	-151	1	SLV	0.50
-150	1	SLV	0.61	-150	1	SLV	0.44	-149	1	SLV	0.50	-149	1	SLV	0.38
-148	1	SLV	0.41	-148	1	SLV	0.33	-147	1	SLV	0.35	-147	1	SLV	0.29
-146	1	SLV	0.32	-146	1	SLV	0.28	-145	1	SLV	0.31	-145	1	SLV	0.28
-144	1	SLV	0.33	-144	1	SLV	0.30	-143	1	SLV	0.35	-143	1	SLV	0.32
-142	1	SLV	0.38	-142	1	SLV	0.35	-141	1	SLV	0.39	-141	1	SLV	0.37
-140	1	SLV	0.39	-140	1	SLV	0.36	-139	1	SLV	0.38	-139	1	SLV	0.35
-138	1	SLV	0.36	-138	1	SLV	0.33	-137	1	SLV	0.35	-137	1	SLV	0.33
-136	1	SLV	0.35	-136	1	SLV	0.33	-135	1	SLV	0.37	-135	1	SLV	0.34
-134	1	SLV	0.39	-134	1	SLV	0.35	-133	1	SLV	0.40	-133	1	SLV	0.37
-132	1	SLV	0.41	-132	1	SLV	0.38	-131	1	SLV	0.40	-131	1	SLV	0.37
-130	1	SLV	0.39	-130	1	SLV	0.35	-129	1	SLV	0.37	-129	1	SLV	0.34
-128	1	SLV	0.35	-128	1	SLV	0.33	-127	1	SLV	0.35	-127	1	SLV	0.33
-126	1	SLV	0.36	-126	1	SLV	0.33	-125	1	SLV	0.38	-125	1	SLV	0.35
-124	1	SLV	0.39	-124	1	SLV	0.36	-123	1	SLV	0.39	-123	1	SLV	0.37

-122	1	SLV	0.38	-122	1	SLV	0.35	-121	1	SLV	0.35	-121	1	SLV	0.32
-120	1	SLV	0.33	-120	1	SLV	0.30	-119	1	SLV	0.31	-119	1	SLV	0.28
-118	1	SLV	0.32	-118	1	SLV	0.28	-117	1	SLV	0.35	-117	1	SLV	0.29
-116	1	SLV	0.41	-116	1	SLV	0.33	-115	1	SLV	0.50	-115	1	SLV	0.38
-114	1	SLV	0.61	-114	1	SLV	0.44	-113	1	SLV	0.72	-113	1	SLV	0.50
-112	1	SLV	0.81	-112	1	SLV	0.53	-111	1	SLV	0.67	-111	1	SLV	0.47
-110	1	SLV	0.55	-110	1	SLV	0.41	-109	1	SLV	0.45	-109	1	SLV	0.35
-108	1	SLV	0.39	-108	1	SLV	0.31	-107	1	SLV	0.35	-107	1	SLV	0.30
-106	1	SLV	0.35	-106	1	SLV	0.30	-105	1	SLV	0.37	-105	1	SLV	0.32
-104	1	SLV	0.41	-104	1	SLV	0.35	-103	1	SLV	0.44	-103	1	SLV	0.39
-102	1	SLV	0.45	-102	1	SLV	0.42	-101	1	SLV	0.45	-101	1	SLV	0.40
-100	1	SLV	0.43	-100	1	SLV	0.38	-99	1	SLV	0.40	-99	1	SLV	0.36
-98	1	SLV	0.38	-98	1	SLV	0.35	-97	1	SLV	0.39	-97	1	SLV	0.35
-96	1	SLV	0.41	-96	1	SLV	0.36	-95	1	SLV	0.43	-95	1	SLV	0.38
-94	1	SLV	0.46	-94	1	SLV	0.41	-93	1	SLV	0.47	-93	1	SLV	0.43
-92	1	SLV	0.46	-92	1	SLV	0.41	-91	1	SLV	0.43	-91	1	SLV	0.38
-90	1	SLV	0.41	-90	1	SLV	0.36	-89	1	SLV	0.39	-89	1	SLV	0.35
-88	1	SLV	0.38	-88	1	SLV	0.35	-87	1	SLV	0.40	-87	1	SLV	0.36
-86	1	SLV	0.43	-86	1	SLV	0.38	-85	1	SLV	0.45	-85	1	SLV	0.40
-84	1	SLV	0.45	-84	1	SLV	0.42	-83	1	SLV	0.44	-83	1	SLV	0.39
-82	1	SLV	0.41	-82	1	SLV	0.35	-81	1	SLV	0.37	-81	1	SLV	0.32
-80	1	SLV	0.35	-80	1	SLV	0.30	-79	1	SLV	0.35	-79	1	SLV	0.30
-78	1	SLV	0.39	-78	1	SLV	0.31	-77	1	SLV	0.45	-77	1	SLV	0.35
-76	1	SLV	0.55	-76	1	SLV	0.41	-75	1	SLV	0.67	-75	1	SLV	0.47
-74	1	SLV	0.81	-74	1	SLV	0.53	-73	1	SLV	0.74	-73	1	SLV	0.51
-72	1	SLV	0.61	-72	1	SLV	0.44	-71	1	SLV	0.50	-71	1	SLV	0.38
-70	1	SLV	0.43	-70	1	SLV	0.33	-69	1	SLV	0.39	-69	1	SLV	0.32
-68	1	SLV	0.39	-68	1	SLV	0.32	-67	1	SLV	0.42	-67	1	SLV	0.35
-66	1	SLV	0.46	-66	1	SLV	0.39	-65	1	SLV	0.51	-65	1	SLV	0.43
-64	1	SLV	0.52	-64	1	SLV	0.45	-63	1	SLV	0.49	-63	1	SLV	0.42
-62	1	SLV	0.45	-62	1	SLV	0.39	-61	1	SLV	0.43	-61	1	SLV	0.38
-60	1	SLV	0.43	-60	1	SLV	0.38	-59	1	SLV	0.45	-59	1	SLV	0.39
-58	1	SLV	0.49	-58	1	SLV	0.42	-57	1	SLV	0.53	-57	1	SLV	0.45
-56	1	SLV	0.53	-56	1	SLV	0.45	-55	1	SLV	0.49	-55	1	SLV	0.42
-54	1	SLV	0.45	-54	1	SLV	0.39	-53	1	SLV	0.43	-53	1	SLV	0.38
-52	1	SLV	0.43	-52	1	SLV	0.38	-51	1	SLV	0.45	-51	1	SLV	0.39
-50	1	SLV	0.49	-50	1	SLV	0.42	-49	1	SLV	0.52	-49	1	SLV	0.45
-48	1	SLV	0.51	-48	1	SLV	0.43	-47	1	SLV	0.46	-47	1	SLV	0.39
-46	1	SLV	0.42	-46	1	SLV	0.35	-45	1	SLV	0.39	-45	1	SLV	0.32
-44	1	SLV	0.39	-44	1	SLV	0.32	-43	1	SLV	0.43	-43	1	SLV	0.33
-42	1	SLV	0.50	-42	1	SLV	0.38	-41	1	SLV	0.61	-41	1	SLV	0.44
-40	1	SLV	0.74	-40	1	SLV	0.51	-39	1	SLV	0.91	-39	1	SLV	0.57
-38	1	SLV	0.76	-38	1	SLV	0.52	-37	1	SLV	0.62	-37	1	SLV	0.44
-36	1	SLV	0.51	-36	1	SLV	0.38	-35	1	SLV	0.44	-35	1	SLV	0.34
-34	1	SLV	0.40	-34	1	SLV	0.32	-33	1	SLV	0.40	-33	1	SLV	0.33
-32	1	SLV	0.43	-32	1	SLV	0.35	-31	1	SLV	0.48	-31	1	SLV	0.39
-30	1	SLV	0.53	-30	1	SLV	0.44	-29	1	SLV	0.55	-29	1	SLV	0.48
-28	1	SLV	0.54	-28	1	SLV	0.46	-27	1	SLV	0.50	-27	1	SLV	0.43
-26	1	SLV	0.46	-26	1	SLV	0.40	-25	1	SLV	0.44	-25	1	SLV	0.39
-24	1	SLV	0.44	-24	1	SLV	0.39	-23	1	SLV	0.47	-23	1	SLV	0.40
-22	1	SLV	0.51	-22	1	SLV	0.43	-21	1	SLV	0.55	-21	1	SLV	0.47

-20	1	SLV	0.56	-20	1	SLV	0.50	-19	1	SLV	0.55	-19	1	SLV	0.47
-18	1	SLV	0.51	-18	1	SLV	0.43	-17	1	SLV	0.47	-17	1	SLV	0.40
-16	1	SLV	0.44	-16	1	SLV	0.39	-15	1	SLV	0.44	-15	1	SLV	0.39
-14	1	SLV	0.46	-14	1	SLV	0.40	-13	1	SLV	0.50	-13	1	SLV	0.43
-12	1	SLV	0.54	-12	1	SLV	0.46	-11	1	SLV	0.55	-11	1	SLV	0.48
-10	1	SLV	0.53	-10	1	SLV	0.44	-9	1	SLV	0.48	-9	1	SLV	0.39
-8	1	SLV	0.43	-8	1	SLV	0.35	-7	1	SLV	0.40	-7	1	SLV	0.33
-6	1	SLV	0.40	-6	1	SLV	0.32	-5	1	SLV	0.44	-5	1	SLV	0.34
-4	1	SLV	0.51	-4	1	SLV	0.38	-3	1	SLV	0.62	-3	1	SLV	0.44
-2	1	SLV	0.76	-2	1	SLV	0.52	-1	1	SLV	0.91	-1	1	SLV	0.57
1	1	SLV	0.89	1	1	SLV	0.56	2	1	SLV	0.53	2	1	SLV	0.47
3	1	SLV	0.54	3	1	SLV	0.49	4	1	SLV	0.53	4	1	SLV	0.47
5	1	SLV	0.89	5	1	SLV	0.56	6	1	SLV	0.72	6	1	SLV	0.57
7	1	SLV	0.39	7	1	SLV	0.38	8	1	SLV	0.40	8	1	SLV	0.39
9	1	SLV	0.39	9	1	SLV	0.38	10	1	SLV	0.72	10	1	SLV	0.57
11	1	SLV	0.73	11	1	SLV	0.58	12	1	SLV	0.39	12	1	SLV	0.38
13	1	SLV	0.40	13	1	SLV	0.40	14	1	SLV	0.39	14	1	SLV	0.38
15	1	SLV	0.73	15	1	SLV	0.58	16	1	SLV	0.96	16	1	SLV	0.67
17	1	SLV	0.60	17	1	SLV	0.54	18	1	SLV	0.61	18	1	SLV	0.55
19	1	SLV	0.60	19	1	SLV	0.54	20	1	SLV	0.96	20	1	SLV	0.67
-916	3	SLV	0.87	-916	3	SLV	0.79	-915	3	SLV	0.73	-915	3	SLV	0.70
-914	3	SLV	0.59	-914	3	SLV	0.60	-913	3	SLV	0.49	-913	3	SLV	0.51
-912	3	SLV	0.42	-912	3	SLV	0.45	-911	3	SLV	0.39	-911	3	SLV	0.42
-910	3	SLV	0.40	-910	3	SLV	0.42	-909	3	SLV	0.43	-909	3	SLV	0.45
-908	3	SLV	0.48	-908	3	SLV	0.51	-907	3	SLV	0.54	-907	3	SLV	0.57
-906	3	SLV	0.56	-906	3	SLV	0.61	-905	3	SLV	0.56	-905	3	SLV	0.58
-904	3	SLV	0.52	-904	3	SLV	0.54	-903	3	SLV	0.48	-903	3	SLV	0.50
-902	3	SLV	0.45	-902	3	SLV	0.48	-901	3	SLV	0.45	-901	3	SLV	0.48
-900	3	SLV	0.48	-900	3	SLV	0.50	-899	3	SLV	0.52	-899	3	SLV	0.54
-898	3	SLV	0.56	-898	3	SLV	0.59	-897	3	SLV	0.57	-897	3	SLV	0.63
-896	3	SLV	0.56	-896	3	SLV	0.59	-895	3	SLV	0.52	-895	3	SLV	0.54
-894	3	SLV	0.48	-894	3	SLV	0.50	-893	3	SLV	0.45	-893	3	SLV	0.48
-892	3	SLV	0.45	-892	3	SLV	0.48	-891	3	SLV	0.48	-891	3	SLV	0.50
-890	3	SLV	0.52	-890	3	SLV	0.54	-889	3	SLV	0.56	-889	3	SLV	0.58
-888	3	SLV	0.56	-888	3	SLV	0.61	-887	3	SLV	0.54	-887	3	SLV	0.57
-886	3	SLV	0.48	-886	3	SLV	0.51	-885	3	SLV	0.43	-885	3	SLV	0.45
-884	3	SLV	0.40	-884	3	SLV	0.42	-883	3	SLV	0.39	-883	3	SLV	0.42
-882	3	SLV	0.42	-882	3	SLV	0.45	-881	3	SLV	0.49	-881	3	SLV	0.51
-880	3	SLV	0.59	-880	3	SLV	0.60	-879	3	SLV	0.73	-879	3	SLV	0.70
-878	3	SLV	0.87	-878	3	SLV	0.79	-877	3	SLV	0.71	-877	3	SLV	0.68
-876	3	SLV	0.58	-876	3	SLV	0.58	-875	3	SLV	0.48	-875	3	SLV	0.49
-874	3	SLV	0.41	-874	3	SLV	0.43	-873	3	SLV	0.38	-873	3	SLV	0.41
-872	3	SLV	0.39	-872	3	SLV	0.41	-871	3	SLV	0.42	-871	3	SLV	0.44
-870	3	SLV	0.47	-870	3	SLV	0.49	-869	3	SLV	0.52	-869	3	SLV	0.55
-868	3	SLV	0.54	-868	3	SLV	0.56	-867	3	SLV	0.50	-867	3	SLV	0.52
-866	3	SLV	0.46	-866	3	SLV	0.48	-865	3	SLV	0.44	-865	3	SLV	0.47
-864	3	SLV	0.44	-864	3	SLV	0.47	-863	3	SLV	0.46	-863	3	SLV	0.49
-862	3	SLV	0.50	-862	3	SLV	0.52	-861	3	SLV	0.54	-861	3	SLV	0.57
-860	3	SLV	0.54	-860	3	SLV	0.57	-859	3	SLV	0.50	-859	3	SLV	0.52
-858	3	SLV	0.46	-858	3	SLV	0.49	-857	3	SLV	0.44	-857	3	SLV	0.47
-856	3	SLV	0.44	-856	3	SLV	0.47	-855	3	SLV	0.46	-855	3	SLV	0.48

-854	3	SLV	0.50	-854	3	SLV	0.52	-853	3	SLV	0.54	-853	3	SLV	0.56
-852	3	SLV	0.52	-852	3	SLV	0.55	-851	3	SLV	0.47	-851	3	SLV	0.49
-850	3	SLV	0.42	-850	3	SLV	0.44	-849	3	SLV	0.39	-849	3	SLV	0.41
-848	3	SLV	0.38	-848	3	SLV	0.41	-847	3	SLV	0.41	-847	3	SLV	0.43
-846	3	SLV	0.48	-846	3	SLV	0.49	-845	3	SLV	0.58	-845	3	SLV	0.58
-844	3	SLV	0.71	-844	3	SLV	0.68	-843	3	SLV	0.79	-843	3	SLV	0.69
-842	3	SLV	0.65	-842	3	SLV	0.60	-841	3	SLV	0.53	-841	3	SLV	0.51
-840	3	SLV	0.43	-840	3	SLV	0.44	-839	3	SLV	0.37	-839	3	SLV	0.39
-838	3	SLV	0.35	-838	3	SLV	0.36	-837	3	SLV	0.35	-837	3	SLV	0.36
-836	3	SLV	0.37	-836	3	SLV	0.39	-835	3	SLV	0.41	-835	3	SLV	0.42
-834	3	SLV	0.45	-834	3	SLV	0.47	-833	3	SLV	0.47	-833	3	SLV	0.50
-832	3	SLV	0.47	-832	3	SLV	0.48	-831	3	SLV	0.44	-831	3	SLV	0.45
-830	3	SLV	0.41	-830	3	SLV	0.43	-829	3	SLV	0.39	-829	3	SLV	0.41
-828	3	SLV	0.39	-828	3	SLV	0.42	-827	3	SLV	0.41	-827	3	SLV	0.43
-826	3	SLV	0.44	-826	3	SLV	0.46	-825	3	SLV	0.47	-825	3	SLV	0.49
-824	3	SLV	0.48	-824	3	SLV	0.51	-823	3	SLV	0.47	-823	3	SLV	0.49
-822	3	SLV	0.44	-822	3	SLV	0.46	-821	3	SLV	0.41	-821	3	SLV	0.43
-820	3	SLV	0.39	-820	3	SLV	0.42	-819	3	SLV	0.39	-819	3	SLV	0.41
-818	3	SLV	0.41	-818	3	SLV	0.43	-817	3	SLV	0.44	-817	3	SLV	0.45
-816	3	SLV	0.47	-816	3	SLV	0.48	-815	3	SLV	0.47	-815	3	SLV	0.50
-814	3	SLV	0.45	-814	3	SLV	0.47	-813	3	SLV	0.41	-813	3	SLV	0.42
-812	3	SLV	0.37	-812	3	SLV	0.39	-811	3	SLV	0.35	-811	3	SLV	0.36
-810	3	SLV	0.35	-810	3	SLV	0.36	-809	3	SLV	0.37	-809	3	SLV	0.39
-808	3	SLV	0.43	-808	3	SLV	0.44	-807	3	SLV	0.53	-807	3	SLV	0.51
-806	3	SLV	0.65	-806	3	SLV	0.60	-805	3	SLV	0.79	-805	3	SLV	0.69
-804	3	SLV	0.70	-804	3	SLV	0.61	-803	3	SLV	0.59	-803	3	SLV	0.53
-802	3	SLV	0.48	-802	3	SLV	0.45	-801	3	SLV	0.40	-801	3	SLV	0.39
-800	3	SLV	0.34	-800	3	SLV	0.34	-799	3	SLV	0.31	-799	3	SLV	0.32
-798	3	SLV	0.31	-798	3	SLV	0.32	-797	3	SLV	0.33	-797	3	SLV	0.34
-796	3	SLV	0.36	-796	3	SLV	0.37	-795	3	SLV	0.38	-795	3	SLV	0.40
-794	3	SLV	0.40	-794	3	SLV	0.41	-793	3	SLV	0.40	-793	3	SLV	0.41
-792	3	SLV	0.39	-792	3	SLV	0.39	-791	3	SLV	0.37	-791	3	SLV	0.38
-790	3	SLV	0.36	-790	3	SLV	0.37	-789	3	SLV	0.35	-789	3	SLV	0.37
-788	3	SLV	0.37	-788	3	SLV	0.38	-787	3	SLV	0.39	-787	3	SLV	0.40
-786	3	SLV	0.41	-786	3	SLV	0.42	-785	3	SLV	0.41	-785	3	SLV	0.43
-784	3	SLV	0.41	-784	3	SLV	0.42	-783	3	SLV	0.39	-783	3	SLV	0.40
-782	3	SLV	0.37	-782	3	SLV	0.38	-781	3	SLV	0.35	-781	3	SLV	0.37
-780	3	SLV	0.36	-780	3	SLV	0.37	-779	3	SLV	0.37	-779	3	SLV	0.38
-778	3	SLV	0.39	-778	3	SLV	0.39	-777	3	SLV	0.40	-777	3	SLV	0.41
-776	3	SLV	0.40	-776	3	SLV	0.41	-775	3	SLV	0.38	-775	3	SLV	0.40
-774	3	SLV	0.36	-774	3	SLV	0.37	-773	3	SLV	0.33	-773	3	SLV	0.34
-772	3	SLV	0.31	-772	3	SLV	0.32	-771	3	SLV	0.31	-771	3	SLV	0.32
-770	3	SLV	0.34	-770	3	SLV	0.34	-769	3	SLV	0.40	-769	3	SLV	0.39
-768	3	SLV	0.48	-768	3	SLV	0.45	-767	3	SLV	0.59	-767	3	SLV	0.53
-766	3	SLV	0.70	-766	3	SLV	0.61	-765	3	SLV	0.65	-765	3	SLV	0.56
-764	3	SLV	0.55	-764	3	SLV	0.48	-763	3	SLV	0.45	-763	3	SLV	0.41
-762	3	SLV	0.37	-762	3	SLV	0.35	-761	3	SLV	0.32	-761	3	SLV	0.31
-760	3	SLV	0.29	-760	3	SLV	0.29	-759	3	SLV	0.28	-759	3	SLV	0.29
-758	3	SLV	0.30	-758	3	SLV	0.30	-757	3	SLV	0.32	-757	3	SLV	0.33
-756	3	SLV	0.34	-756	3	SLV	0.35	-755	3	SLV	0.36	-755	3	SLV	0.36
-754	3	SLV	0.36	-754	3	SLV	0.36	-753	3	SLV	0.35	-753	3	SLV	0.35

-752	3	SLV	0.34	-752	3	SLV	0.34	-751	3	SLV	0.33	-751	3	SLV	0.33
-750	3	SLV	0.33	-750	3	SLV	0.34	-749	3	SLV	0.34	-749	3	SLV	0.34
-748	3	SLV	0.35	-748	3	SLV	0.36	-747	3	SLV	0.37	-747	3	SLV	0.38
-746	3	SLV	0.37	-746	3	SLV	0.38	-745	3	SLV	0.37	-745	3	SLV	0.38
-744	3	SLV	0.35	-744	3	SLV	0.36	-743	3	SLV	0.34	-743	3	SLV	0.34
-742	3	SLV	0.33	-742	3	SLV	0.34	-741	3	SLV	0.33	-741	3	SLV	0.33
-740	3	SLV	0.34	-740	3	SLV	0.34	-739	3	SLV	0.35	-739	3	SLV	0.35
-738	3	SLV	0.36	-738	3	SLV	0.36	-737	3	SLV	0.36	-737	3	SLV	0.36
-736	3	SLV	0.34	-736	3	SLV	0.35	-735	3	SLV	0.32	-735	3	SLV	0.33
-734	3	SLV	0.30	-734	3	SLV	0.30	-733	3	SLV	0.28	-733	3	SLV	0.29
-732	3	SLV	0.29	-732	3	SLV	0.29	-731	3	SLV	0.32	-731	3	SLV	0.31
-730	3	SLV	0.37	-730	3	SLV	0.35	-729	3	SLV	0.45	-729	3	SLV	0.41
-728	3	SLV	0.55	-728	3	SLV	0.48	-727	3	SLV	0.65	-727	3	SLV	0.56
-726	3	SLV	0.64	-726	3	SLV	0.54	-725	3	SLV	0.53	-725	3	SLV	0.46
-724	3	SLV	0.43	-724	3	SLV	0.39	-723	3	SLV	0.36	-723	3	SLV	0.33
-722	3	SLV	0.30	-722	3	SLV	0.29	-721	3	SLV	0.27	-721	3	SLV	0.27
-720	3	SLV	0.27	-720	3	SLV	0.27	-719	3	SLV	0.28	-719	3	SLV	0.28
-718	3	SLV	0.30	-718	3	SLV	0.31	-717	3	SLV	0.32	-717	3	SLV	0.33
-716	3	SLV	0.34	-716	3	SLV	0.34	-715	3	SLV	0.34	-715	3	SLV	0.34
-714	3	SLV	0.33	-714	3	SLV	0.33	-713	3	SLV	0.32	-713	3	SLV	0.32
-712	3	SLV	0.31	-712	3	SLV	0.31	-711	3	SLV	0.31	-711	3	SLV	0.31
-710	3	SLV	0.32	-710	3	SLV	0.32	-709	3	SLV	0.34	-709	3	SLV	0.34
-708	3	SLV	0.35	-708	3	SLV	0.35	-707	3	SLV	0.35	-707	3	SLV	0.36
-706	3	SLV	0.35	-706	3	SLV	0.35	-705	3	SLV	0.34	-705	3	SLV	0.34
-704	3	SLV	0.32	-704	3	SLV	0.32	-703	3	SLV	0.31	-703	3	SLV	0.31
-702	3	SLV	0.31	-702	3	SLV	0.31	-701	3	SLV	0.32	-701	3	SLV	0.32
-700	3	SLV	0.33	-700	3	SLV	0.33	-699	3	SLV	0.34	-699	3	SLV	0.34
-698	3	SLV	0.34	-698	3	SLV	0.34	-697	3	SLV	0.32	-697	3	SLV	0.33
-696	3	SLV	0.30	-696	3	SLV	0.31	-695	3	SLV	0.28	-695	3	SLV	0.28
-694	3	SLV	0.27	-694	3	SLV	0.27	-693	3	SLV	0.27	-693	3	SLV	0.27
-692	3	SLV	0.30	-692	3	SLV	0.29	-691	3	SLV	0.36	-691	3	SLV	0.33
-690	3	SLV	0.43	-690	3	SLV	0.39	-689	3	SLV	0.53	-689	3	SLV	0.46
-688	3	SLV	0.64	-688	3	SLV	0.54	-687	3	SLV	0.65	-687	3	SLV	0.54
-686	3	SLV	0.54	-686	3	SLV	0.46	-685	3	SLV	0.44	-685	3	SLV	0.39
-684	3	SLV	0.35	-684	3	SLV	0.33	-683	3	SLV	0.30	-683	3	SLV	0.28
-682	3	SLV	0.27	-682	3	SLV	0.26	-681	3	SLV	0.26	-681	3	SLV	0.26
-680	3	SLV	0.28	-680	3	SLV	0.27	-679	3	SLV	0.30	-679	3	SLV	0.30
-678	3	SLV	0.33	-678	3	SLV	0.33	-677	3	SLV	0.34	-677	3	SLV	0.34
-676	3	SLV	0.35	-676	3	SLV	0.34	-675	3	SLV	0.33	-675	3	SLV	0.32
-674	3	SLV	0.32	-674	3	SLV	0.31	-673	3	SLV	0.30	-673	3	SLV	0.30
-672	3	SLV	0.30	-672	3	SLV	0.30	-671	3	SLV	0.32	-671	3	SLV	0.31
-670	3	SLV	0.34	-670	3	SLV	0.33	-669	3	SLV	0.35	-669	3	SLV	0.35
-668	3	SLV	0.36	-668	3	SLV	0.36	-667	3	SLV	0.35	-667	3	SLV	0.35
-666	3	SLV	0.34	-666	3	SLV	0.33	-665	3	SLV	0.32	-665	3	SLV	0.31
-664	3	SLV	0.30	-664	3	SLV	0.30	-663	3	SLV	0.30	-663	3	SLV	0.30
-662	3	SLV	0.32	-662	3	SLV	0.31	-661	3	SLV	0.33	-661	3	SLV	0.32
-660	3	SLV	0.35	-660	3	SLV	0.34	-659	3	SLV	0.34	-659	3	SLV	0.34
-658	3	SLV	0.33	-658	3	SLV	0.33	-657	3	SLV	0.30	-657	3	SLV	0.30
-656	3	SLV	0.28	-656	3	SLV	0.27	-655	3	SLV	0.26	-655	3	SLV	0.26
-654	3	SLV	0.27	-654	3	SLV	0.26	-653	3	SLV	0.30	-653	3	SLV	0.28
-652	3	SLV	0.35	-652	3	SLV	0.33	-651	3	SLV	0.44	-651	3	SLV	0.39

-650	3	SLV	0.54	-650	3	SLV	0.46	-649	3	SLV	0.65	-649	3	SLV	0.54
-648	3	SLV	0.69	-648	3	SLV	0.57	-647	3	SLV	0.56	-647	3	SLV	0.48
-646	3	SLV	0.45	-646	3	SLV	0.40	-645	3	SLV	0.36	-645	3	SLV	0.33
-644	3	SLV	0.30	-644	3	SLV	0.28	-643	3	SLV	0.26	-643	3	SLV	0.26
-642	3	SLV	0.26	-642	3	SLV	0.26	-641	3	SLV	0.28	-641	3	SLV	0.28
-640	3	SLV	0.31	-640	3	SLV	0.31	-639	3	SLV	0.34	-639	3	SLV	0.34
-638	3	SLV	0.37	-638	3	SLV	0.36	-637	3	SLV	0.36	-637	3	SLV	0.35
-636	3	SLV	0.34	-636	3	SLV	0.33	-635	3	SLV	0.32	-635	3	SLV	0.31
-634	3	SLV	0.30	-634	3	SLV	0.30	-633	3	SLV	0.30	-633	3	SLV	0.30
-632	3	SLV	0.32	-632	3	SLV	0.31	-631	3	SLV	0.34	-631	3	SLV	0.33
-630	3	SLV	0.37	-630	3	SLV	0.36	-629	3	SLV	0.38	-629	3	SLV	0.38
-628	3	SLV	0.37	-628	3	SLV	0.36	-627	3	SLV	0.34	-627	3	SLV	0.33
-626	3	SLV	0.32	-626	3	SLV	0.31	-625	3	SLV	0.30	-625	3	SLV	0.30
-624	3	SLV	0.30	-624	3	SLV	0.30	-623	3	SLV	0.32	-623	3	SLV	0.31
-622	3	SLV	0.34	-622	3	SLV	0.33	-621	3	SLV	0.36	-621	3	SLV	0.35
-620	3	SLV	0.37	-620	3	SLV	0.36	-619	3	SLV	0.34	-619	3	SLV	0.34
-618	3	SLV	0.31	-618	3	SLV	0.31	-617	3	SLV	0.28	-617	3	SLV	0.28
-616	3	SLV	0.26	-616	3	SLV	0.26	-615	3	SLV	0.26	-615	3	SLV	0.26
-614	3	SLV	0.30	-614	3	SLV	0.28	-613	3	SLV	0.36	-613	3	SLV	0.33
-612	3	SLV	0.45	-612	3	SLV	0.40	-611	3	SLV	0.56	-611	3	SLV	0.48
-610	3	SLV	0.69	-610	3	SLV	0.57	-609	3	SLV	0.58	-609	3	SLV	0.49
-608	3	SLV	0.45	-608	3	SLV	0.40	-607	3	SLV	0.36	-607	3	SLV	0.33
-606	3	SLV	0.30	-606	3	SLV	0.28	-605	3	SLV	0.26	-605	3	SLV	0.26
-604	3	SLV	0.26	-604	3	SLV	0.26	-603	3	SLV	0.28	-603	3	SLV	0.28
-602	3	SLV	0.31	-602	3	SLV	0.31	-601	3	SLV	0.35	-601	3	SLV	0.35
-600	3	SLV	0.37	-600	3	SLV	0.36	-599	3	SLV	0.34	-599	3	SLV	0.33
-598	3	SLV	0.32	-598	3	SLV	0.31	-597	3	SLV	0.30	-597	3	SLV	0.30
-596	3	SLV	0.30	-596	3	SLV	0.30	-595	3	SLV	0.32	-595	3	SLV	0.31
-594	3	SLV	0.35	-594	3	SLV	0.34	-593	3	SLV	0.38	-593	3	SLV	0.37
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-590	3	SLV	0.32	-590	3	SLV	0.31	-589	3	SLV	0.30	-589	3	SLV	0.30
-588	3	SLV	0.30	-588	3	SLV	0.30	-587	3	SLV	0.32	-587	3	SLV	0.31
-586	3	SLV	0.34	-586	3	SLV	0.33	-585	3	SLV	0.37	-585	3	SLV	0.36
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-582	3	SLV	0.28	-582	3	SLV	0.28	-581	3	SLV	0.26	-581	3	SLV	0.26
-580	3	SLV	0.26	-580	3	SLV	0.26	-579	3	SLV	0.30	-579	3	SLV	0.28
-578	3	SLV	0.36	-578	3	SLV	0.33	-577	3	SLV	0.45	-577	3	SLV	0.40
-576	3	SLV	0.58	-576	3	SLV	0.49	-575	3	SLV	0.70	-575	3	SLV	0.57
-574	3	SLV	0.57	-574	3	SLV	0.48	-573	3	SLV	0.45	-573	3	SLV	0.40
-572	3	SLV	0.36	-572	3	SLV	0.33	-571	3	SLV	0.29	-571	3	SLV	0.28
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-560	3	SLV	0.30	-560	3	SLV	0.30	-559	3	SLV	0.32	-559	3	SLV	0.31
-558	3	SLV	0.34	-558	3	SLV	0.34	-557	3	SLV	0.37	-557	3	SLV	0.37
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-554	3	SLV	0.34	-554	3	SLV	0.34	-553	3	SLV	0.32	-553	3	SLV	0.31
-552	3	SLV	0.30	-552	3	SLV	0.30	-551	3	SLV	0.30	-551	3	SLV	0.30
-550	3	SLV	0.32	-550	3	SLV	0.31	-549	3	SLV	0.34	-549	3	SLV	0.33

-548	3	SLV	0.36	-548	3	SLV	0.35	-547	3	SLV	0.36	-547	3	SLV	0.36
-546	3	SLV	0.34	-546	3	SLV	0.35	-545	3	SLV	0.31	-545	3	SLV	0.31
-544	3	SLV	0.28	-544	3	SLV	0.28	-543	3	SLV	0.26	-543	3	SLV	0.26
-542	3	SLV	0.26	-542	3	SLV	0.26	-541	3	SLV	0.29	-541	3	SLV	0.28
-540	3	SLV	0.36	-540	3	SLV	0.33	-539	3	SLV	0.45	-539	3	SLV	0.40
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-534	3	SLV	0.44	-534	3	SLV	0.39	-533	3	SLV	0.35	-533	3	SLV	0.33
-532	3	SLV	0.29	-532	3	SLV	0.28	-531	3	SLV	0.26	-531	3	SLV	0.26
-530	3	SLV	0.26	-530	3	SLV	0.26	-529	3	SLV	0.27	-529	3	SLV	0.27
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-510	3	SLV	0.33	-510	3	SLV	0.32	-509	3	SLV	0.34	-509	3	SLV	0.34
-508	3	SLV	0.34	-508	3	SLV	0.34	-507	3	SLV	0.33	-507	3	SLV	0.33
-506	3	SLV	0.30	-506	3	SLV	0.30	-505	3	SLV	0.27	-505	3	SLV	0.27
-504	3	SLV	0.26	-504	3	SLV	0.26	-503	3	SLV	0.26	-503	3	SLV	0.26
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-500	3	SLV	0.44	-500	3	SLV	0.39	-499	3	SLV	0.55	-499	3	SLV	0.46
-498	3	SLV	0.66	-498	3	SLV	0.54	-497	3	SLV	0.64	-497	3	SLV	0.52
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-488	3	SLV	0.32	-488	3	SLV	0.31	-487	3	SLV	0.33	-487	3	SLV	0.33
-486	3	SLV	0.33	-486	3	SLV	0.32	-485	3	SLV	0.33	-485	3	SLV	0.31
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-482	3	SLV	0.30	-482	3	SLV	0.30	-481	3	SLV	0.31	-481	3	SLV	0.31
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-478	3	SLV	0.35	-478	3	SLV	0.35	-477	3	SLV	0.34	-477	3	SLV	0.34
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-472	3	SLV	0.31	-472	3	SLV	0.30	-471	3	SLV	0.33	-471	3	SLV	0.31
-470	3	SLV	0.33	-470	3	SLV	0.32	-469	3	SLV	0.33	-469	3	SLV	0.33
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-466	3	SLV	0.27	-466	3	SLV	0.27	-465	3	SLV	0.26	-465	3	SLV	0.26
-464	3	SLV	0.26	-464	3	SLV	0.26	-463	3	SLV	0.29	-463	3	SLV	0.28
-462	3	SLV	0.35	-462	3	SLV	0.32	-461	3	SLV	0.43	-461	3	SLV	0.38
-460	3	SLV	0.53	-460	3	SLV	0.45	-459	3	SLV	0.64	-459	3	SLV	0.52
-458	3	SLV	0.64	-458	3	SLV	0.52	-457	3	SLV	0.53	-457	3	SLV	0.45
-456	3	SLV	0.43	-456	3	SLV	0.38	-455	3	SLV	0.35	-455	3	SLV	0.32
-454	3	SLV	0.29	-454	3	SLV	0.28	-453	3	SLV	0.26	-453	3	SLV	0.26
-452	3	SLV	0.26	-452	3	SLV	0.26	-451	3	SLV	0.27	-451	3	SLV	0.27
-450	3	SLV	0.29	-450	3	SLV	0.29	-449	3	SLV	0.32	-449	3	SLV	0.31
-448	3	SLV	0.33	-448	3	SLV	0.33	-447	3	SLV	0.33	-447	3	SLV	0.33

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-444	3	SLV	0.30	-444	3	SLV	0.30	-443	3	SLV	0.30	-443	3	SLV	0.30
-442	3	SLV	0.31	-442	3	SLV	0.31	-441	3	SLV	0.33	-441	3	SLV	0.32
-440	3	SLV	0.34	-440	3	SLV	0.34	-439	3	SLV	0.35	-439	3	SLV	0.35
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-432	3	SLV	0.33	-432	3	SLV	0.32	-431	3	SLV	0.33	-431	3	SLV	0.33
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-424	3	SLV	0.29	-424	3	SLV	0.28	-423	3	SLV	0.35	-423	3	SLV	0.32
-422	3	SLV	0.43	-422	3	SLV	0.38	-421	3	SLV	0.53	-421	3	SLV	0.45
-420	3	SLV	0.64	-420	3	SLV	0.52	-419	3	SLV	0.66	-419	3	SLV	0.54
-418	3	SLV	0.54	-418	3	SLV	0.46	-417	3	SLV	0.44	-417	3	SLV	0.39
-416	3	SLV	0.35	-416	3	SLV	0.33	-415	3	SLV	0.29	-415	3	SLV	0.28
-414	3	SLV	0.26	-414	3	SLV	0.26	-413	3	SLV	0.26	-413	3	SLV	0.26
-412	3	SLV	0.27	-412	3	SLV	0.28	-411	3	SLV	0.30	-411	3	SLV	0.30
-410	3	SLV	0.33	-410	3	SLV	0.33	-409	3	SLV	0.34	-409	3	SLV	0.34
-408	3	SLV	0.34	-408	3	SLV	0.34	-407	3	SLV	0.33	-407	3	SLV	0.32
-406	3	SLV	0.31	-406	3	SLV	0.31	-405	3	SLV	0.30	-405	3	SLV	0.30
-404	3	SLV	0.30	-404	3	SLV	0.30	-403	3	SLV	0.31	-403	3	SLV	0.31
-402	3	SLV	0.33	-402	3	SLV	0.33	-401	3	SLV	0.35	-401	3	SLV	0.35
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-398	3	SLV	0.33	-398	3	SLV	0.33	-397	3	SLV	0.31	-397	3	SLV	0.31
-396	3	SLV	0.30	-396	3	SLV	0.30	-395	3	SLV	0.30	-395	3	SLV	0.30
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-392	3	SLV	0.34	-392	3	SLV	0.34	-391	3	SLV	0.34	-391	3	SLV	0.34
-390	3	SLV	0.33	-390	3	SLV	0.33	-389	3	SLV	0.30	-389	3	SLV	0.30
-388	3	SLV	0.27	-388	3	SLV	0.28	-387	3	SLV	0.26	-387	3	SLV	0.26
-386	3	SLV	0.26	-386	3	SLV	0.26	-385	3	SLV	0.29	-385	3	SLV	0.28
-384	3	SLV	0.35	-384	3	SLV	0.33	-383	3	SLV	0.44	-383	3	SLV	0.39
-382	3	SLV	0.54	-382	3	SLV	0.46	-381	3	SLV	0.66	-381	3	SLV	0.54
-380	3	SLV	0.69	-380	3	SLV	0.56	-379	3	SLV	0.56	-379	3	SLV	0.48
-378	3	SLV	0.45	-378	3	SLV	0.40	-377	3	SLV	0.36	-377	3	SLV	0.33
-376	3	SLV	0.30	-376	3	SLV	0.28	-375	3	SLV	0.26	-375	3	SLV	0.26
-374	3	SLV	0.26	-374	3	SLV	0.26	-373	3	SLV	0.28	-373	3	SLV	0.28
-372	3	SLV	0.31	-372	3	SLV	0.31	-371	3	SLV	0.34	-371	3	SLV	0.35
-370	3	SLV	0.36	-370	3	SLV	0.36	-369	3	SLV	0.36	-369	3	SLV	0.35
-368	3	SLV	0.34	-368	3	SLV	0.33	-367	3	SLV	0.32	-367	3	SLV	0.31
-366	3	SLV	0.30	-366	3	SLV	0.30	-365	3	SLV	0.30	-365	3	SLV	0.30
-364	3	SLV	0.32	-364	3	SLV	0.31	-363	3	SLV	0.34	-363	3	SLV	0.34
-362	3	SLV	0.37	-362	3	SLV	0.37	-361	3	SLV	0.38	-361	3	SLV	0.38
-360	3	SLV	0.37	-360	3	SLV	0.37	-359	3	SLV	0.34	-359	3	SLV	0.34
-358	3	SLV	0.32	-358	3	SLV	0.31	-357	3	SLV	0.30	-357	3	SLV	0.30
-356	3	SLV	0.30	-356	3	SLV	0.30	-355	3	SLV	0.32	-355	3	SLV	0.31
-354	3	SLV	0.34	-354	3	SLV	0.33	-353	3	SLV	0.36	-353	3	SLV	0.35
-352	3	SLV	0.36	-352	3	SLV	0.36	-351	3	SLV	0.34	-351	3	SLV	0.35
-350	3	SLV	0.31	-350	3	SLV	0.31	-349	3	SLV	0.28	-349	3	SLV	0.28
-348	3	SLV	0.26	-348	3	SLV	0.26	-347	3	SLV	0.26	-347	3	SLV	0.26
-346	3	SLV	0.30	-346	3	SLV	0.28	-345	3	SLV	0.36	-345	3	SLV	0.33

-344	3	SLV	0.45	-344	3	SLV	0.40	-343	3	SLV	0.56	-343	3	SLV	0.48
-342	3	SLV	0.69	-342	3	SLV	0.56	-341	3	SLV	0.58	-341	3	SLV	0.49
-340	3	SLV	0.45	-340	3	SLV	0.40	-339	3	SLV	0.36	-339	3	SLV	0.33
-338	3	SLV	0.30	-338	3	SLV	0.28	-337	3	SLV	0.26	-337	3	SLV	0.26
-336	3	SLV	0.26	-336	3	SLV	0.26	-335	3	SLV	0.28	-335	3	SLV	0.28
-334	3	SLV	0.31	-334	3	SLV	0.31	-333	3	SLV	0.35	-333	3	SLV	0.35
-332	3	SLV	0.37	-332	3	SLV	0.36	-331	3	SLV	0.34	-331	3	SLV	0.33
-330	3	SLV	0.32	-330	3	SLV	0.31	-329	3	SLV	0.30	-329	3	SLV	0.30
-328	3	SLV	0.30	-328	3	SLV	0.30	-327	3	SLV	0.32	-327	3	SLV	0.31
-326	3	SLV	0.35	-326	3	SLV	0.34	-325	3	SLV	0.38	-325	3	SLV	0.37
-324	3	SLV	0.38	-324	3	SLV	0.37	-323	3	SLV	0.35	-323	3	SLV	0.34
-322	3	SLV	0.32	-322	3	SLV	0.31	-321	3	SLV	0.30	-321	3	SLV	0.30
-320	3	SLV	0.30	-320	3	SLV	0.30	-319	3	SLV	0.32	-319	3	SLV	0.31
-318	3	SLV	0.34	-318	3	SLV	0.33	-317	3	SLV	0.37	-317	3	SLV	0.36
-316	3	SLV	0.35	-316	3	SLV	0.35	-315	3	SLV	0.31	-315	3	SLV	0.31
-314	3	SLV	0.28	-314	3	SLV	0.28	-313	3	SLV	0.26	-313	3	SLV	0.26
-312	3	SLV	0.26	-312	3	SLV	0.26	-311	3	SLV	0.30	-311	3	SLV	0.28
-310	3	SLV	0.36	-310	3	SLV	0.33	-309	3	SLV	0.45	-309	3	SLV	0.40
-308	3	SLV	0.58	-308	3	SLV	0.49	-307	3	SLV	0.69	-307	3	SLV	0.55
-306	3	SLV	0.56	-306	3	SLV	0.47	-305	3	SLV	0.45	-305	3	SLV	0.39
-304	3	SLV	0.36	-304	3	SLV	0.32	-303	3	SLV	0.30	-303	3	SLV	0.28
-302	3	SLV	0.26	-302	3	SLV	0.26	-301	3	SLV	0.26	-301	3	SLV	0.26
-300	3	SLV	0.28	-300	3	SLV	0.28	-299	3	SLV	0.31	-299	3	SLV	0.31
-298	3	SLV	0.34	-298	3	SLV	0.34	-297	3	SLV	0.36	-297	3	SLV	0.36
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-294	3	SLV	0.32	-294	3	SLV	0.31	-293	3	SLV	0.30	-293	3	SLV	0.30
-292	3	SLV	0.30	-292	3	SLV	0.30	-291	3	SLV	0.32	-291	3	SLV	0.31
-290	3	SLV	0.34	-290	3	SLV	0.33	-289	3	SLV	0.37	-289	3	SLV	0.36
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-284	3	SLV	0.30	-284	3	SLV	0.30	-283	3	SLV	0.30	-283	3	SLV	0.30
-282	3	SLV	0.32	-282	3	SLV	0.31	-281	3	SLV	0.34	-281	3	SLV	0.33
-280	3	SLV	0.36	-280	3	SLV	0.35	-279	3	SLV	0.36	-279	3	SLV	0.36
-278	3	SLV	0.34	-278	3	SLV	0.34	-277	3	SLV	0.31	-277	3	SLV	0.31
-276	3	SLV	0.28	-276	3	SLV	0.28	-275	3	SLV	0.26	-275	3	SLV	0.26
-274	3	SLV	0.26	-274	3	SLV	0.26	-273	3	SLV	0.30	-273	3	SLV	0.28
-272	3	SLV	0.36	-272	3	SLV	0.32	-271	3	SLV	0.45	-271	3	SLV	0.39
-270	3	SLV	0.56	-270	3	SLV	0.47	-269	3	SLV	0.69	-269	3	SLV	0.55
-268	3	SLV	0.65	-268	3	SLV	0.53	-267	3	SLV	0.54	-267	3	SLV	0.45
-266	3	SLV	0.43	-266	3	SLV	0.38	-265	3	SLV	0.35	-265	3	SLV	0.32
-264	3	SLV	0.30	-264	3	SLV	0.28	-263	3	SLV	0.27	-263	3	SLV	0.26
-262	3	SLV	0.26	-262	3	SLV	0.26	-261	3	SLV	0.28	-261	3	SLV	0.27
-260	3	SLV	0.30	-260	3	SLV	0.30	-259	3	SLV	0.32	-259	3	SLV	0.33
-258	3	SLV	0.34	-258	3	SLV	0.34	-257	3	SLV	0.34	-257	3	SLV	0.33
-256	3	SLV	0.33	-256	3	SLV	0.32	-255	3	SLV	0.31	-255	3	SLV	0.30
-254	3	SLV	0.30	-254	3	SLV	0.30	-253	3	SLV	0.30	-253	3	SLV	0.30
-252	3	SLV	0.31	-252	3	SLV	0.31	-251	3	SLV	0.33	-251	3	SLV	0.33
-250	3	SLV	0.35	-250	3	SLV	0.35	-249	3	SLV	0.35	-249	3	SLV	0.36
-248	3	SLV	0.35	-248	3	SLV	0.35	-247	3	SLV	0.33	-247	3	SLV	0.33
-246	3	SLV	0.31	-246	3	SLV	0.31	-245	3	SLV	0.30	-245	3	SLV	0.30
-244	3	SLV	0.30	-244	3	SLV	0.30	-243	3	SLV	0.31	-243	3	SLV	0.30

-242	3	SLV	0.33	-242	3	SLV	0.32	-241	3	SLV	0.34	-241	3	SLV	0.33
-240	3	SLV	0.34	-240	3	SLV	0.34	-239	3	SLV	0.32	-239	3	SLV	0.33
-238	3	SLV	0.30	-238	3	SLV	0.30	-237	3	SLV	0.28	-237	3	SLV	0.27
-236	3	SLV	0.26	-236	3	SLV	0.26	-235	3	SLV	0.27	-235	3	SLV	0.26
-234	3	SLV	0.30	-234	3	SLV	0.28	-233	3	SLV	0.35	-233	3	SLV	0.32
-232	3	SLV	0.43	-232	3	SLV	0.38	-231	3	SLV	0.54	-231	3	SLV	0.45
-230	3	SLV	0.65	-230	3	SLV	0.53	-229	3	SLV	0.62	-229	3	SLV	0.51
-228	3	SLV	0.52	-228	3	SLV	0.44	-227	3	SLV	0.43	-227	3	SLV	0.38
-226	3	SLV	0.35	-226	3	SLV	0.32	-225	3	SLV	0.30	-225	3	SLV	0.28
-224	3	SLV	0.27	-224	3	SLV	0.26	-223	3	SLV	0.26	-223	3	SLV	0.26
-222	3	SLV	0.28	-222	3	SLV	0.28	-221	3	SLV	0.30	-221	3	SLV	0.30
-220	3	SLV	0.32	-220	3	SLV	0.32	-219	3	SLV	0.33	-219	3	SLV	0.33
-218	3	SLV	0.33	-218	3	SLV	0.33	-217	3	SLV	0.33	-217	3	SLV	0.32
-216	3	SLV	0.31	-216	3	SLV	0.31	-215	3	SLV	0.30	-215	3	SLV	0.30
-214	3	SLV	0.30	-214	3	SLV	0.31	-213	3	SLV	0.31	-213	3	SLV	0.31
-212	3	SLV	0.33	-212	3	SLV	0.33	-211	3	SLV	0.34	-211	3	SLV	0.34
-210	3	SLV	0.34	-210	3	SLV	0.35	-209	3	SLV	0.34	-209	3	SLV	0.34
-208	3	SLV	0.33	-208	3	SLV	0.33	-207	3	SLV	0.31	-207	3	SLV	0.31
-206	3	SLV	0.30	-206	3	SLV	0.31	-205	3	SLV	0.30	-205	3	SLV	0.30
-204	3	SLV	0.31	-204	3	SLV	0.31	-203	3	SLV	0.33	-203	3	SLV	0.32
-202	3	SLV	0.33	-202	3	SLV	0.33	-201	3	SLV	0.33	-201	3	SLV	0.33
-200	3	SLV	0.32	-200	3	SLV	0.32	-199	3	SLV	0.30	-199	3	SLV	0.30
-198	3	SLV	0.28	-198	3	SLV	0.28	-197	3	SLV	0.26	-197	3	SLV	0.26
-196	3	SLV	0.27	-196	3	SLV	0.26	-195	3	SLV	0.30	-195	3	SLV	0.28
-194	3	SLV	0.35	-194	3	SLV	0.32	-193	3	SLV	0.43	-193	3	SLV	0.38
-192	3	SLV	0.52	-192	3	SLV	0.44	-191	3	SLV	0.62	-191	3	SLV	0.51
-190	3	SLV	0.63	-190	3	SLV	0.52	-189	3	SLV	0.53	-189	3	SLV	0.45
-188	3	SLV	0.44	-188	3	SLV	0.39	-187	3	SLV	0.36	-187	3	SLV	0.33
-186	3	SLV	0.31	-186	3	SLV	0.30	-185	3	SLV	0.28	-185	3	SLV	0.28
-184	3	SLV	0.27	-184	3	SLV	0.28	-183	3	SLV	0.29	-183	3	SLV	0.29
-182	3	SLV	0.31	-182	3	SLV	0.31	-181	3	SLV	0.33	-181	3	SLV	0.34
-180	3	SLV	0.34	-180	3	SLV	0.35	-179	3	SLV	0.34	-179	3	SLV	0.35
-178	3	SLV	0.34	-178	3	SLV	0.34	-177	3	SLV	0.32	-177	3	SLV	0.33
-176	3	SLV	0.31	-176	3	SLV	0.32	-175	3	SLV	0.31	-175	3	SLV	0.32
-174	3	SLV	0.32	-174	3	SLV	0.33	-173	3	SLV	0.34	-173	3	SLV	0.34
-172	3	SLV	0.35	-172	3	SLV	0.36	-171	3	SLV	0.35	-171	3	SLV	0.37
-170	3	SLV	0.35	-170	3	SLV	0.36	-169	3	SLV	0.34	-169	3	SLV	0.34
-168	3	SLV	0.32	-168	3	SLV	0.33	-167	3	SLV	0.31	-167	3	SLV	0.32
-166	3	SLV	0.31	-166	3	SLV	0.32	-165	3	SLV	0.32	-165	3	SLV	0.33
-164	3	SLV	0.34	-164	3	SLV	0.34	-163	3	SLV	0.34	-163	3	SLV	0.35
-162	3	SLV	0.34	-162	3	SLV	0.35	-161	3	SLV	0.33	-161	3	SLV	0.34
-160	3	SLV	0.31	-160	3	SLV	0.31	-159	3	SLV	0.29	-159	3	SLV	0.29
-158	3	SLV	0.27	-158	3	SLV	0.28	-157	3	SLV	0.28	-157	3	SLV	0.28
-156	3	SLV	0.31	-156	3	SLV	0.30	-155	3	SLV	0.36	-155	3	SLV	0.33
-154	3	SLV	0.44	-154	3	SLV	0.39	-153	3	SLV	0.53	-153	3	SLV	0.45
-152	3	SLV	0.63	-152	3	SLV	0.52	-151	3	SLV	0.67	-151	3	SLV	0.55
-150	3	SLV	0.56	-150	3	SLV	0.48	-149	3	SLV	0.46	-149	3	SLV	0.42
-148	3	SLV	0.38	-148	3	SLV	0.36	-147	3	SLV	0.33	-147	3	SLV	0.32
-146	3	SLV	0.30	-146	3	SLV	0.30	-145	3	SLV	0.29	-145	3	SLV	0.30
-144	3	SLV	0.31	-144	3	SLV	0.32	-143	3	SLV	0.33	-143	3	SLV	0.34
-142	3	SLV	0.36	-142	3	SLV	0.37	-141	3	SLV	0.37	-141	3	SLV	0.39

-140	3	SLV	0.37	-140	3	SLV	0.38	-139	3	SLV	0.36	-139	3	SLV	0.37
-138	3	SLV	0.34	-138	3	SLV	0.35	-137	3	SLV	0.33	-137	3	SLV	0.35
-136	3	SLV	0.33	-136	3	SLV	0.35	-135	3	SLV	0.34	-135	3	SLV	0.36
-134	3	SLV	0.36	-134	3	SLV	0.37	-133	3	SLV	0.38	-133	3	SLV	0.39
-132	3	SLV	0.38	-132	3	SLV	0.41	-131	3	SLV	0.38	-131	3	SLV	0.39
-130	3	SLV	0.36	-130	3	SLV	0.37	-129	3	SLV	0.34	-129	3	SLV	0.36
-128	3	SLV	0.33	-128	3	SLV	0.35	-127	3	SLV	0.33	-127	3	SLV	0.35
-126	3	SLV	0.34	-126	3	SLV	0.35	-125	3	SLV	0.36	-125	3	SLV	0.37
-124	3	SLV	0.37	-124	3	SLV	0.38	-123	3	SLV	0.37	-123	3	SLV	0.39
-122	3	SLV	0.36	-122	3	SLV	0.37	-121	3	SLV	0.33	-121	3	SLV	0.34
-120	3	SLV	0.31	-120	3	SLV	0.32	-119	3	SLV	0.29	-119	3	SLV	0.30
-118	3	SLV	0.30	-118	3	SLV	0.30	-117	3	SLV	0.33	-117	3	SLV	0.32
-116	3	SLV	0.38	-116	3	SLV	0.36	-115	3	SLV	0.46	-115	3	SLV	0.42
-114	3	SLV	0.56	-114	3	SLV	0.48	-113	3	SLV	0.67	-113	3	SLV	0.55
-112	3	SLV	0.73	-112	3	SLV	0.60	-111	3	SLV	0.61	-111	3	SLV	0.53
-110	3	SLV	0.50	-110	3	SLV	0.46	-109	3	SLV	0.41	-109	3	SLV	0.39
-108	3	SLV	0.35	-108	3	SLV	0.35	-107	3	SLV	0.32	-107	3	SLV	0.33
-106	3	SLV	0.32	-106	3	SLV	0.33	-105	3	SLV	0.34	-105	3	SLV	0.35
-104	3	SLV	0.37	-104	3	SLV	0.38	-103	3	SLV	0.40	-103	3	SLV	0.42
-102	3	SLV	0.42	-102	3	SLV	0.45	-101	3	SLV	0.42	-101	3	SLV	0.44
-100	3	SLV	0.40	-100	3	SLV	0.41	-99	3	SLV	0.37	-99	3	SLV	0.39
-98	3	SLV	0.36	-98	3	SLV	0.38	-97	3	SLV	0.36	-97	3	SLV	0.38
-96	3	SLV	0.38	-96	3	SLV	0.39	-95	3	SLV	0.40	-95	3	SLV	0.42
-94	3	SLV	0.43	-94	3	SLV	0.45	-93	3	SLV	0.43	-93	3	SLV	0.47
-92	3	SLV	0.43	-92	3	SLV	0.45	-91	3	SLV	0.40	-91	3	SLV	0.42
-90	3	SLV	0.38	-90	3	SLV	0.39	-89	3	SLV	0.36	-89	3	SLV	0.38
-88	3	SLV	0.36	-88	3	SLV	0.38	-87	3	SLV	0.37	-87	3	SLV	0.39
-86	3	SLV	0.40	-86	3	SLV	0.41	-85	3	SLV	0.42	-85	3	SLV	0.44
-84	3	SLV	0.42	-84	3	SLV	0.45	-83	3	SLV	0.40	-83	3	SLV	0.42
-82	3	SLV	0.37	-82	3	SLV	0.38	-81	3	SLV	0.34	-81	3	SLV	0.35
-80	3	SLV	0.32	-80	3	SLV	0.33	-79	3	SLV	0.32	-79	3	SLV	0.33
-78	3	SLV	0.35	-78	3	SLV	0.35	-77	3	SLV	0.41	-77	3	SLV	0.39
-76	3	SLV	0.50	-76	3	SLV	0.46	-75	3	SLV	0.61	-75	3	SLV	0.53
-74	3	SLV	0.73	-74	3	SLV	0.60	-73	3	SLV	0.66	-73	3	SLV	0.59
-72	3	SLV	0.54	-72	3	SLV	0.51	-71	3	SLV	0.44	-71	3	SLV	0.43
-70	3	SLV	0.38	-70	3	SLV	0.38	-69	3	SLV	0.35	-69	3	SLV	0.36
-68	3	SLV	0.35	-68	3	SLV	0.36	-67	3	SLV	0.38	-67	3	SLV	0.39
-66	3	SLV	0.42	-66	3	SLV	0.43	-65	3	SLV	0.46	-65	3	SLV	0.48
-64	3	SLV	0.47	-64	3	SLV	0.50	-63	3	SLV	0.44	-63	3	SLV	0.46
-62	3	SLV	0.41	-62	3	SLV	0.44	-61	3	SLV	0.39	-61	3	SLV	0.42
-60	3	SLV	0.39	-60	3	SLV	0.42	-59	3	SLV	0.41	-59	3	SLV	0.43
-58	3	SLV	0.44	-58	3	SLV	0.47	-57	3	SLV	0.48	-57	3	SLV	0.51
-56	3	SLV	0.48	-56	3	SLV	0.51	-55	3	SLV	0.44	-55	3	SLV	0.47
-54	3	SLV	0.41	-54	3	SLV	0.43	-53	3	SLV	0.39	-53	3	SLV	0.42
-52	3	SLV	0.39	-52	3	SLV	0.42	-51	3	SLV	0.41	-51	3	SLV	0.44
-50	3	SLV	0.44	-50	3	SLV	0.46	-49	3	SLV	0.47	-49	3	SLV	0.50
-48	3	SLV	0.46	-48	3	SLV	0.48	-47	3	SLV	0.42	-47	3	SLV	0.43
-46	3	SLV	0.38	-46	3	SLV	0.39	-45	3	SLV	0.35	-45	3	SLV	0.36
-44	3	SLV	0.35	-44	3	SLV	0.36	-43	3	SLV	0.38	-43	3	SLV	0.38
-42	3	SLV	0.44	-42	3	SLV	0.43	-41	3	SLV	0.54	-41	3	SLV	0.51
-40	3	SLV	0.66	-40	3	SLV	0.59	-39	3	SLV	0.80	-39	3	SLV	0.68

-38	3	SLV	0.67	-38	3	SLV	0.61	-37	3	SLV	0.55	-37	3	SLV	0.52
-36	3	SLV	0.45	-36	3	SLV	0.44	-35	3	SLV	0.39	-35	3	SLV	0.39
-34	3	SLV	0.36	-34	3	SLV	0.37	-33	3	SLV	0.36	-33	3	SLV	0.37
-32	3	SLV	0.39	-32	3	SLV	0.40	-31	3	SLV	0.43	-31	3	SLV	0.45
-30	3	SLV	0.48	-30	3	SLV	0.50	-29	3	SLV	0.49	-29	3	SLV	0.55
-28	3	SLV	0.49	-28	3	SLV	0.52	-27	3	SLV	0.45	-27	3	SLV	0.48
-26	3	SLV	0.42	-26	3	SLV	0.45	-25	3	SLV	0.39	-25	3	SLV	0.43
-24	3	SLV	0.40	-24	3	SLV	0.43	-23	3	SLV	0.42	-23	3	SLV	0.45
-22	3	SLV	0.46	-22	3	SLV	0.48	-21	3	SLV	0.49	-21	3	SLV	0.52
-20	3	SLV	0.50	-20	3	SLV	0.56	-19	3	SLV	0.49	-19	3	SLV	0.52
-18	3	SLV	0.46	-18	3	SLV	0.48	-17	3	SLV	0.42	-17	3	SLV	0.45
-16	3	SLV	0.40	-16	3	SLV	0.43	-15	3	SLV	0.39	-15	3	SLV	0.43
-14	3	SLV	0.42	-14	3	SLV	0.45	-13	3	SLV	0.45	-13	3	SLV	0.48
-12	3	SLV	0.48	-12	3	SLV	0.52	-11	3	SLV	0.49	-11	3	SLV	0.55
-10	3	SLV	0.48	-10	3	SLV	0.50	-9	3	SLV	0.43	-9	3	SLV	0.45
-8	3	SLV	0.39	-8	3	SLV	0.40	-7	3	SLV	0.36	-7	3	SLV	0.37
-6	3	SLV	0.36	-6	3	SLV	0.37	-5	3	SLV	0.39	-5	3	SLV	0.39
-4	3	SLV	0.45	-4	3	SLV	0.44	-3	3	SLV	0.55	-3	3	SLV	0.52
-2	3	SLV	0.67	-2	3	SLV	0.61	-1	3	SLV	0.80	-1	3	SLV	0.68
1	3	SLV	0.79	1	3	SLV	0.66	2	3	SLV	0.48	2	3	SLV	0.53
3	3	SLV	0.49	3	3	SLV	0.54	4	3	SLV	0.48	4	3	SLV	0.53
5	3	SLV	0.79	5	3	SLV	0.66	6	3	SLV	0.72	6	3	SLV	0.57
7	3	SLV	0.38	7	3	SLV	0.38	8	3	SLV	0.39	8	3	SLV	0.40
9	3	SLV	0.38	9	3	SLV	0.38	10	3	SLV	0.72	10	3	SLV	0.57
11	3	SLV	0.73	11	3	SLV	0.58	12	3	SLV	0.38	12	3	SLV	0.38
13	3	SLV	0.40	13	3	SLV	0.40	14	3	SLV	0.38	14	3	SLV	0.38
15	3	SLV	0.73	15	3	SLV	0.58	16	3	SLV	0.86	16	3	SLV	0.77
17	3	SLV	0.54	17	3	SLV	0.59	18	3	SLV	0.55	18	3	SLV	0.61
19	3	SLV	0.54	19	3	SLV	0.59	20	3	SLV	0.86	20	3	SLV	0.77
-916	5	SLV	1.04	-916	5	SLV	0.62	-915	5	SLV	0.88	-915	5	SLV	0.55
-914	5	SLV	0.73	-914	5	SLV	0.46	-913	5	SLV	0.60	-913	5	SLV	0.39
-912	5	SLV	0.52	-912	5	SLV	0.34	-911	5	SLV	0.48	-911	5	SLV	0.33
-910	5	SLV	0.48	-910	5	SLV	0.33	-909	5	SLV	0.52	-909	5	SLV	0.36
-908	5	SLV	0.58	-908	5	SLV	0.41	-907	5	SLV	0.65	-907	5	SLV	0.46
-906	5	SLV	0.69	-906	5	SLV	0.48	-905	5	SLV	0.67	-905	5	SLV	0.47
-904	5	SLV	0.61	-904	5	SLV	0.44	-903	5	SLV	0.57	-903	5	SLV	0.41
-902	5	SLV	0.54	-902	5	SLV	0.40	-901	5	SLV	0.54	-901	5	SLV	0.40
-900	5	SLV	0.57	-900	5	SLV	0.41	-899	5	SLV	0.62	-899	5	SLV	0.44
-898	5	SLV	0.67	-898	5	SLV	0.48	-897	5	SLV	0.70	-897	5	SLV	0.50
-896	5	SLV	0.67	-896	5	SLV	0.48	-895	5	SLV	0.62	-895	5	SLV	0.44
-894	5	SLV	0.57	-894	5	SLV	0.41	-893	5	SLV	0.54	-893	5	SLV	0.40
-892	5	SLV	0.54	-892	5	SLV	0.40	-891	5	SLV	0.57	-891	5	SLV	0.41
-890	5	SLV	0.61	-890	5	SLV	0.44	-889	5	SLV	0.67	-889	5	SLV	0.47
-888	5	SLV	0.69	-888	5	SLV	0.48	-887	5	SLV	0.65	-887	5	SLV	0.46
-886	5	SLV	0.58	-886	5	SLV	0.41	-885	5	SLV	0.52	-885	5	SLV	0.36
-884	5	SLV	0.48	-884	5	SLV	0.33	-883	5	SLV	0.48	-883	5	SLV	0.33
-882	5	SLV	0.52	-882	5	SLV	0.34	-881	5	SLV	0.60	-881	5	SLV	0.39
-880	5	SLV	0.73	-880	5	SLV	0.46	-879	5	SLV	0.88	-879	5	SLV	0.55
-878	5	SLV	1.04	-878	5	SLV	0.62	-877	5	SLV	0.85	-877	5	SLV	0.54
-876	5	SLV	0.70	-876	5	SLV	0.45	-875	5	SLV	0.58	-875	5	SLV	0.38
-874	5	SLV	0.50	-874	5	SLV	0.34	-873	5	SLV	0.47	-873	5	SLV	0.32

-872	5	SLV	0.47	-872	5	SLV	0.33	-871	5	SLV	0.50	-871	5	SLV	0.36
-870	5	SLV	0.56	-870	5	SLV	0.40	-869	5	SLV	0.62	-869	5	SLV	0.45
-868	5	SLV	0.64	-868	5	SLV	0.46	-867	5	SLV	0.59	-867	5	SLV	0.43
-866	5	SLV	0.55	-866	5	SLV	0.40	-865	5	SLV	0.52	-865	5	SLV	0.39
-864	5	SLV	0.52	-864	5	SLV	0.39	-863	5	SLV	0.55	-863	5	SLV	0.40
-862	5	SLV	0.59	-862	5	SLV	0.43	-861	5	SLV	0.65	-861	5	SLV	0.47
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-856	5	SLV	0.52	-856	5	SLV	0.39	-855	5	SLV	0.55	-855	5	SLV	0.40
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-844	5	SLV	0.85	-844	5	SLV	0.54	-843	5	SLV	0.88	-843	5	SLV	0.60
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-838	5	SLV	0.41	-838	5	SLV	0.30	-837	5	SLV	0.40	-837	5	SLV	0.30
-836	5	SLV	0.43	-836	5	SLV	0.33	-835	5	SLV	0.47	-835	5	SLV	0.36
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-830	5	SLV	0.47	-830	5	SLV	0.37	-829	5	SLV	0.45	-829	5	SLV	0.36
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-822	5	SLV	0.51	-822	5	SLV	0.39	-821	5	SLV	0.47	-821	5	SLV	0.37
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-818	5	SLV	0.47	-818	5	SLV	0.37	-817	5	SLV	0.50	-817	5	SLV	0.39
-816	5	SLV	0.53	-816	5	SLV	0.42	-815	5	SLV	0.54	-815	5	SLV	0.43
-814	5	SLV	0.51	-814	5	SLV	0.40	-813	5	SLV	0.47	-813	5	SLV	0.36
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-810	5	SLV	0.41	-810	5	SLV	0.30	-809	5	SLV	0.44	-809	5	SLV	0.32
-808	5	SLV	0.51	-808	5	SLV	0.36	-807	5	SLV	0.61	-807	5	SLV	0.43
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-804	5	SLV	0.76	-804	5	SLV	0.55	-803	5	SLV	0.64	-803	5	SLV	0.47
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-800	5	SLV	0.38	-800	5	SLV	0.30	-799	5	SLV	0.35	-799	5	SLV	0.28
-798	5	SLV	0.35	-798	5	SLV	0.28	-797	5	SLV	0.36	-797	5	SLV	0.30
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-794	5	SLV	0.44	-794	5	SLV	0.37	-793	5	SLV	0.44	-793	5	SLV	0.37
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-778	5	SLV	0.43	-778	5	SLV	0.36	-777	5	SLV	0.44	-777	5	SLV	0.37
-776	5	SLV	0.44	-776	5	SLV	0.37	-775	5	SLV	0.42	-775	5	SLV	0.36
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-772	5	SLV	0.35	-772	5	SLV	0.28	-771	5	SLV	0.35	-771	5	SLV	0.28

-770	5	SLV	0.38	-770	5	SLV	0.30	-769	5	SLV	0.45	-769	5	SLV	0.34
-768	5	SLV	0.54	-768	5	SLV	0.40	-767	5	SLV	0.64	-767	5	SLV	0.47
-766	5	SLV	0.76	-766	5	SLV	0.55	-765	5	SLV	0.68	-765	5	SLV	0.53
-764	5	SLV	0.58	-764	5	SLV	0.45	-763	5	SLV	0.48	-763	5	SLV	0.38
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-760	5	SLV	0.31	-760	5	SLV	0.27	-759	5	SLV	0.30	-759	5	SLV	0.27
-758	5	SLV	0.32	-758	5	SLV	0.28	-757	5	SLV	0.34	-757	5	SLV	0.30
-756	5	SLV	0.36	-756	5	SLV	0.33	-755	5	SLV	0.38	-755	5	SLV	0.34
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-750	5	SLV	0.35	-750	5	SLV	0.31	-749	5	SLV	0.36	-749	5	SLV	0.32
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-746	5	SLV	0.40	-746	5	SLV	0.36	-745	5	SLV	0.39	-745	5	SLV	0.35
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-740	5	SLV	0.36	-740	5	SLV	0.32	-739	5	SLV	0.37	-739	5	SLV	0.33
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-736	5	SLV	0.36	-736	5	SLV	0.33	-735	5	SLV	0.34	-735	5	SLV	0.30
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-730	5	SLV	0.40	-730	5	SLV	0.33	-729	5	SLV	0.48	-729	5	SLV	0.38
-728	5	SLV	0.58	-728	5	SLV	0.45	-727	5	SLV	0.68	-727	5	SLV	0.53
-726	5	SLV	0.65	-726	5	SLV	0.52	-725	5	SLV	0.54	-725	5	SLV	0.45
-724	5	SLV	0.45	-724	5	SLV	0.38	-723	5	SLV	0.37	-723	5	SLV	0.32
-722	5	SLV	0.31	-722	5	SLV	0.28	-721	5	SLV	0.28	-721	5	SLV	0.26
-720	5	SLV	0.28	-720	5	SLV	0.26	-719	5	SLV	0.29	-719	5	SLV	0.27
-718	5	SLV	0.31	-718	5	SLV	0.29	-717	5	SLV	0.34	-717	5	SLV	0.31
-716	5	SLV	0.35	-716	5	SLV	0.33	-715	5	SLV	0.35	-715	5	SLV	0.33
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-704	5	SLV	0.33	-704	5	SLV	0.31	-703	5	SLV	0.32	-703	5	SLV	0.30
-702	5	SLV	0.32	-702	5	SLV	0.30	-701	5	SLV	0.33	-701	5	SLV	0.31
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-698	5	SLV	0.35	-698	5	SLV	0.33	-697	5	SLV	0.34	-697	5	SLV	0.31
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-686	5	SLV	0.54	-686	5	SLV	0.47	-685	5	SLV	0.44	-685	5	SLV	0.39
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-660	5	SLV	0.35	-660	5	SLV	0.33	-659	5	SLV	0.35	-659	5	SLV	0.34
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-630	5	SLV	0.37	-630	5	SLV	0.36	-629	5	SLV	0.38	-629	5	SLV	0.37
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-580	5	SLV	0.27	-580	5	SLV	0.26	-579	5	SLV	0.30	-579	5	SLV	0.28
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-574	5	SLV	0.55	-574	5	SLV	0.50	-573	5	SLV	0.44	-573	5	SLV	0.41
-572	5	SLV	0.35	-572	5	SLV	0.33	-571	5	SLV	0.30	-571	5	SLV	0.28
-570	5	SLV	0.27	-570	5	SLV	0.26	-569	5	SLV	0.27	-569	5	SLV	0.25
-568	5	SLV	0.28	-568	5	SLV	0.27	-567	5	SLV	0.32	-567	5	SLV	0.30

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-564	5	SLV	0.37	-564	5	SLV	0.35	-563	5	SLV	0.34	-563	5	SLV	0.32
-562	5	SLV	0.32	-562	5	SLV	0.30	-561	5	SLV	0.31	-561	5	SLV	0.29
-560	5	SLV	0.31	-560	5	SLV	0.30	-559	5	SLV	0.32	-559	5	SLV	0.31
-558	5	SLV	0.35	-558	5	SLV	0.33	-557	5	SLV	0.38	-557	5	SLV	0.36
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-552	5	SLV	0.31	-552	5	SLV	0.30	-551	5	SLV	0.31	-551	5	SLV	0.29
-550	5	SLV	0.32	-550	5	SLV	0.30	-549	5	SLV	0.34	-549	5	SLV	0.32
-548	5	SLV	0.37	-548	5	SLV	0.35	-547	5	SLV	0.38	-547	5	SLV	0.35
-546	5	SLV	0.36	-546	5	SLV	0.33	-545	5	SLV	0.32	-545	5	SLV	0.30
-544	5	SLV	0.28	-544	5	SLV	0.27	-543	5	SLV	0.27	-543	5	SLV	0.25
-542	5	SLV	0.27	-542	5	SLV	0.26	-541	5	SLV	0.30	-541	5	SLV	0.28
-540	5	SLV	0.35	-540	5	SLV	0.33	-539	5	SLV	0.44	-539	5	SLV	0.41
-538	5	SLV	0.55	-538	5	SLV	0.50	-537	5	SLV	0.67	-537	5	SLV	0.60
-536	5	SLV	0.63	-536	5	SLV	0.57	-535	5	SLV	0.53	-535	5	SLV	0.48
-534	5	SLV	0.43	-534	5	SLV	0.40	-533	5	SLV	0.35	-533	5	SLV	0.33
-532	5	SLV	0.29	-532	5	SLV	0.28	-531	5	SLV	0.27	-531	5	SLV	0.26
-530	5	SLV	0.26	-530	5	SLV	0.25	-529	5	SLV	0.28	-529	5	SLV	0.27
-528	5	SLV	0.31	-528	5	SLV	0.29	-527	5	SLV	0.34	-527	5	SLV	0.32
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-498	5	SLV	0.63	-498	5	SLV	0.57	-497	5	SLV	0.60	-497	5	SLV	0.56
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-466	5	SLV	0.27	-466	5	SLV	0.27	-465	5	SLV	0.26	-465	5	SLV	0.26

-464	5	SLV	0.26	-464	5	SLV	0.26	-463	5	SLV	0.29	-463	5	SLV	0.28
-462	5	SLV	0.34	-462	5	SLV	0.33	-461	5	SLV	0.42	-461	5	SLV	0.40
-460	5	SLV	0.51	-460	5	SLV	0.48	-459	5	SLV	0.60	-459	5	SLV	0.56
-458	5	SLV	0.61	-458	5	SLV	0.56	-457	5	SLV	0.51	-457	5	SLV	0.47
-456	5	SLV	0.42	-456	5	SLV	0.39	-455	5	SLV	0.34	-455	5	SLV	0.33
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-432	5	SLV	0.33	-432	5	SLV	0.31	-431	5	SLV	0.34	-431	5	SLV	0.32
-430	5	SLV	0.33	-430	5	SLV	0.32	-429	5	SLV	0.32	-429	5	SLV	0.31
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-418	5	SLV	0.53	-418	5	SLV	0.48	-417	5	SLV	0.43	-417	5	SLV	0.40
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-414	5	SLV	0.27	-414	5	SLV	0.26	-413	5	SLV	0.27	-413	5	SLV	0.25
-412	5	SLV	0.28	-412	5	SLV	0.27	-411	5	SLV	0.31	-411	5	SLV	0.29
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-408	5	SLV	0.35	-408	5	SLV	0.33	-407	5	SLV	0.34	-407	5	SLV	0.32
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-404	5	SLV	0.31	-404	5	SLV	0.30	-403	5	SLV	0.32	-403	5	SLV	0.31
-402	5	SLV	0.34	-402	5	SLV	0.32	-401	5	SLV	0.36	-401	5	SLV	0.34
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-396	5	SLV	0.31	-396	5	SLV	0.30	-395	5	SLV	0.31	-395	5	SLV	0.29
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-392	5	SLV	0.35	-392	5	SLV	0.33	-391	5	SLV	0.35	-391	5	SLV	0.33
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-386	5	SLV	0.27	-386	5	SLV	0.26	-385	5	SLV	0.30	-385	5	SLV	0.28
-384	5	SLV	0.35	-384	5	SLV	0.33	-383	5	SLV	0.43	-383	5	SLV	0.40
-382	5	SLV	0.53	-382	5	SLV	0.48	-381	5	SLV	0.63	-381	5	SLV	0.57
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-378	5	SLV	0.44	-378	5	SLV	0.41	-377	5	SLV	0.35	-377	5	SLV	0.33
-376	5	SLV	0.30	-376	5	SLV	0.28	-375	5	SLV	0.27	-375	5	SLV	0.26
-374	5	SLV	0.27	-374	5	SLV	0.25	-373	5	SLV	0.29	-373	5	SLV	0.27
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-368	5	SLV	0.35	-368	5	SLV	0.32	-367	5	SLV	0.32	-367	5	SLV	0.30
-366	5	SLV	0.31	-366	5	SLV	0.29	-365	5	SLV	0.31	-365	5	SLV	0.30
-364	5	SLV	0.32	-364	5	SLV	0.31	-363	5	SLV	0.35	-363	5	SLV	0.33

-362	5	SLV	0.38	-362	5	SLV	0.36	-361	5	SLV	0.39	-361	5	SLV	0.37
-360	5	SLV	0.38	-360	5	SLV	0.36	-359	5	SLV	0.35	-359	5	SLV	0.33
-358	5	SLV	0.32	-358	5	SLV	0.31	-357	5	SLV	0.31	-357	5	SLV	0.30
-356	5	SLV	0.31	-356	5	SLV	0.29	-355	5	SLV	0.32	-355	5	SLV	0.30
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-352	5	SLV	0.38	-352	5	SLV	0.35	-351	5	SLV	0.36	-351	5	SLV	0.33
-350	5	SLV	0.32	-350	5	SLV	0.30	-349	5	SLV	0.29	-349	5	SLV	0.27
-348	5	SLV	0.27	-348	5	SLV	0.25	-347	5	SLV	0.27	-347	5	SLV	0.26
-346	5	SLV	0.30	-346	5	SLV	0.28	-345	5	SLV	0.35	-345	5	SLV	0.33
-344	5	SLV	0.44	-344	5	SLV	0.41	-343	5	SLV	0.55	-343	5	SLV	0.50
-342	5	SLV	0.67	-342	5	SLV	0.59	-341	5	SLV	0.55	-341	5	SLV	0.52
-340	5	SLV	0.44	-340	5	SLV	0.41	-339	5	SLV	0.35	-339	5	SLV	0.34
-338	5	SLV	0.30	-338	5	SLV	0.28	-337	5	SLV	0.27	-337	5	SLV	0.26
-336	5	SLV	0.27	-336	5	SLV	0.25	-335	5	SLV	0.29	-335	5	SLV	0.27
-334	5	SLV	0.32	-334	5	SLV	0.30	-333	5	SLV	0.36	-333	5	SLV	0.34
-332	5	SLV	0.38	-332	5	SLV	0.35	-331	5	SLV	0.35	-331	5	SLV	0.33
-330	5	SLV	0.32	-330	5	SLV	0.31	-329	5	SLV	0.31	-329	5	SLV	0.29
-328	5	SLV	0.31	-328	5	SLV	0.30	-327	5	SLV	0.32	-327	5	SLV	0.31
-326	5	SLV	0.35	-326	5	SLV	0.33	-325	5	SLV	0.38	-325	5	SLV	0.37
-324	5	SLV	0.38	-324	5	SLV	0.37	-323	5	SLV	0.35	-323	5	SLV	0.33
-322	5	SLV	0.32	-322	5	SLV	0.31	-321	5	SLV	0.31	-321	5	SLV	0.30
-320	5	SLV	0.31	-320	5	SLV	0.29	-319	5	SLV	0.32	-319	5	SLV	0.31
-318	5	SLV	0.35	-318	5	SLV	0.33	-317	5	SLV	0.38	-317	5	SLV	0.35
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-314	5	SLV	0.29	-314	5	SLV	0.27	-313	5	SLV	0.27	-313	5	SLV	0.25
-312	5	SLV	0.27	-312	5	SLV	0.26	-311	5	SLV	0.30	-311	5	SLV	0.28
-310	5	SLV	0.35	-310	5	SLV	0.34	-309	5	SLV	0.44	-309	5	SLV	0.41
-308	5	SLV	0.55	-308	5	SLV	0.52	-307	5	SLV	0.66	-307	5	SLV	0.58
-306	5	SLV	0.54	-306	5	SLV	0.49	-305	5	SLV	0.43	-305	5	SLV	0.40
-304	5	SLV	0.35	-304	5	SLV	0.33	-303	5	SLV	0.29	-303	5	SLV	0.28
-302	5	SLV	0.27	-302	5	SLV	0.26	-301	5	SLV	0.26	-301	5	SLV	0.26
-300	5	SLV	0.28	-300	5	SLV	0.27	-299	5	SLV	0.31	-299	5	SLV	0.30
-298	5	SLV	0.34	-298	5	SLV	0.34	-297	5	SLV	0.36	-297	5	SLV	0.36
-296	5	SLV	0.36	-296	5	SLV	0.35	-295	5	SLV	0.34	-295	5	SLV	0.33
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-290	5	SLV	0.34	-290	5	SLV	0.34	-289	5	SLV	0.37	-289	5	SLV	0.36
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-280	5	SLV	0.36	-280	5	SLV	0.35	-279	5	SLV	0.36	-279	5	SLV	0.36
-278	5	SLV	0.34	-278	5	SLV	0.34	-277	5	SLV	0.31	-277	5	SLV	0.30
-276	5	SLV	0.28	-276	5	SLV	0.27	-275	5	SLV	0.26	-275	5	SLV	0.26
-274	5	SLV	0.27	-274	5	SLV	0.26	-273	5	SLV	0.29	-273	5	SLV	0.28
-272	5	SLV	0.35	-272	5	SLV	0.33	-271	5	SLV	0.43	-271	5	SLV	0.40
-270	5	SLV	0.54	-270	5	SLV	0.49	-269	5	SLV	0.66	-269	5	SLV	0.58
-268	5	SLV	0.64	-268	5	SLV	0.53	-267	5	SLV	0.53	-267	5	SLV	0.46
-266	5	SLV	0.43	-266	5	SLV	0.38	-265	5	SLV	0.35	-265	5	SLV	0.32
-264	5	SLV	0.29	-264	5	SLV	0.28	-263	5	SLV	0.27	-263	5	SLV	0.26
-262	5	SLV	0.26	-262	5	SLV	0.26	-261	5	SLV	0.28	-261	5	SLV	0.27

-260	5	SLV	0.30	-260	5	SLV	0.30	-259	5	SLV	0.33	-259	5	SLV	0.32
-258	5	SLV	0.35	-258	5	SLV	0.33	-257	5	SLV	0.35	-257	5	SLV	0.33
-256	5	SLV	0.33	-256	5	SLV	0.32	-255	5	SLV	0.31	-255	5	SLV	0.30
-254	5	SLV	0.30	-254	5	SLV	0.30	-253	5	SLV	0.30	-253	5	SLV	0.30
-252	5	SLV	0.32	-252	5	SLV	0.31	-251	5	SLV	0.34	-251	5	SLV	0.33
-250	5	SLV	0.36	-250	5	SLV	0.34	-249	5	SLV	0.36	-249	5	SLV	0.35
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-244	5	SLV	0.30	-244	5	SLV	0.30	-243	5	SLV	0.31	-243	5	SLV	0.30
-242	5	SLV	0.33	-242	5	SLV	0.32	-241	5	SLV	0.35	-241	5	SLV	0.33
-240	5	SLV	0.35	-240	5	SLV	0.33	-239	5	SLV	0.33	-239	5	SLV	0.32
-238	5	SLV	0.30	-238	5	SLV	0.30	-237	5	SLV	0.28	-237	5	SLV	0.27
-236	5	SLV	0.26	-236	5	SLV	0.26	-235	5	SLV	0.27	-235	5	SLV	0.26
-234	5	SLV	0.29	-234	5	SLV	0.28	-233	5	SLV	0.35	-233	5	SLV	0.32
-232	5	SLV	0.43	-232	5	SLV	0.38	-231	5	SLV	0.53	-231	5	SLV	0.46
-230	5	SLV	0.64	-230	5	SLV	0.53	-229	5	SLV	0.63	-229	5	SLV	0.50
-228	5	SLV	0.53	-228	5	SLV	0.43	-227	5	SLV	0.44	-227	5	SLV	0.37
-226	5	SLV	0.36	-226	5	SLV	0.31	-225	5	SLV	0.31	-225	5	SLV	0.27
-224	5	SLV	0.28	-224	5	SLV	0.26	-223	5	SLV	0.27	-223	5	SLV	0.25
-222	5	SLV	0.29	-222	5	SLV	0.27	-221	5	SLV	0.31	-221	5	SLV	0.29
-220	5	SLV	0.33	-220	5	SLV	0.31	-219	5	SLV	0.34	-219	5	SLV	0.32
-218	5	SLV	0.35	-218	5	SLV	0.32	-217	5	SLV	0.34	-217	5	SLV	0.31
-216	5	SLV	0.32	-216	5	SLV	0.30	-215	5	SLV	0.31	-215	5	SLV	0.29
-214	5	SLV	0.31	-214	5	SLV	0.29	-213	5	SLV	0.33	-213	5	SLV	0.30
-212	5	SLV	0.34	-212	5	SLV	0.32	-211	5	SLV	0.36	-211	5	SLV	0.33
-210	5	SLV	0.36	-210	5	SLV	0.33	-209	5	SLV	0.36	-209	5	SLV	0.33
-208	5	SLV	0.34	-208	5	SLV	0.32	-207	5	SLV	0.33	-207	5	SLV	0.30
-206	5	SLV	0.31	-206	5	SLV	0.29	-205	5	SLV	0.31	-205	5	SLV	0.29
-204	5	SLV	0.32	-204	5	SLV	0.30	-203	5	SLV	0.34	-203	5	SLV	0.31
-202	5	SLV	0.35	-202	5	SLV	0.32	-201	5	SLV	0.34	-201	5	SLV	0.32
-200	5	SLV	0.33	-200	5	SLV	0.31	-199	5	SLV	0.31	-199	5	SLV	0.29
-198	5	SLV	0.29	-198	5	SLV	0.27	-197	5	SLV	0.27	-197	5	SLV	0.25
-196	5	SLV	0.28	-196	5	SLV	0.26	-195	5	SLV	0.31	-195	5	SLV	0.27
-194	5	SLV	0.36	-194	5	SLV	0.31	-193	5	SLV	0.44	-193	5	SLV	0.37
-192	5	SLV	0.53	-192	5	SLV	0.43	-191	5	SLV	0.63	-191	5	SLV	0.50
-190	5	SLV	0.66	-190	5	SLV	0.49	-189	5	SLV	0.56	-189	5	SLV	0.42
-188	5	SLV	0.46	-188	5	SLV	0.36	-187	5	SLV	0.39	-187	5	SLV	0.31
-186	5	SLV	0.33	-186	5	SLV	0.27	-185	5	SLV	0.30	-185	5	SLV	0.26
-184	5	SLV	0.30	-184	5	SLV	0.26	-183	5	SLV	0.31	-183	5	SLV	0.27
-182	5	SLV	0.33	-182	5	SLV	0.29	-181	5	SLV	0.35	-181	5	SLV	0.31
-180	5	SLV	0.37	-180	5	SLV	0.32	-179	5	SLV	0.37	-179	5	SLV	0.32
-178	5	SLV	0.36	-178	5	SLV	0.31	-177	5	SLV	0.34	-177	5	SLV	0.30
-176	5	SLV	0.34	-176	5	SLV	0.30	-175	5	SLV	0.34	-175	5	SLV	0.30
-174	5	SLV	0.35	-174	5	SLV	0.31	-173	5	SLV	0.36	-173	5	SLV	0.32
-172	5	SLV	0.38	-172	5	SLV	0.33	-171	5	SLV	0.38	-171	5	SLV	0.34
-170	5	SLV	0.38	-170	5	SLV	0.33	-169	5	SLV	0.36	-169	5	SLV	0.32
-168	5	SLV	0.35	-168	5	SLV	0.31	-167	5	SLV	0.34	-167	5	SLV	0.30
-166	5	SLV	0.34	-166	5	SLV	0.30	-165	5	SLV	0.34	-165	5	SLV	0.30
-164	5	SLV	0.36	-164	5	SLV	0.31	-163	5	SLV	0.37	-163	5	SLV	0.32
-162	5	SLV	0.37	-162	5	SLV	0.32	-161	5	SLV	0.35	-161	5	SLV	0.31
-160	5	SLV	0.33	-160	5	SLV	0.29	-159	5	SLV	0.31	-159	5	SLV	0.27

-158	5	SLV	0.30	-158	5	SLV	0.26	-157	5	SLV	0.30	-157	5	SLV	0.26
-156	5	SLV	0.33	-156	5	SLV	0.27	-155	5	SLV	0.39	-155	5	SLV	0.31
-154	5	SLV	0.46	-154	5	SLV	0.36	-153	5	SLV	0.56	-153	5	SLV	0.42
-152	5	SLV	0.66	-152	5	SLV	0.49	-151	5	SLV	0.72	-151	5	SLV	0.50
-150	5	SLV	0.61	-150	5	SLV	0.43	-149	5	SLV	0.51	-149	5	SLV	0.37
-148	5	SLV	0.43	-148	5	SLV	0.31	-147	5	SLV	0.37	-147	5	SLV	0.28
-146	5	SLV	0.34	-146	5	SLV	0.26	-145	5	SLV	0.33	-145	5	SLV	0.26
-144	5	SLV	0.35	-144	5	SLV	0.28	-143	5	SLV	0.37	-143	5	SLV	0.30
-142	5	SLV	0.40	-142	5	SLV	0.33	-141	5	SLV	0.42	-141	5	SLV	0.34
-140	5	SLV	0.42	-140	5	SLV	0.34	-139	5	SLV	0.40	-139	5	SLV	0.33
-138	5	SLV	0.38	-138	5	SLV	0.31	-137	5	SLV	0.37	-137	5	SLV	0.31
-136	5	SLV	0.37	-136	5	SLV	0.31	-135	5	SLV	0.39	-135	5	SLV	0.31
-134	5	SLV	0.41	-134	5	SLV	0.33	-133	5	SLV	0.43	-133	5	SLV	0.35
-132	5	SLV	0.43	-132	5	SLV	0.36	-131	5	SLV	0.43	-131	5	SLV	0.35
-130	5	SLV	0.41	-130	5	SLV	0.33	-129	5	SLV	0.39	-129	5	SLV	0.31
-128	5	SLV	0.37	-128	5	SLV	0.31	-127	5	SLV	0.37	-127	5	SLV	0.31
-126	5	SLV	0.38	-126	5	SLV	0.31	-125	5	SLV	0.40	-125	5	SLV	0.33
-124	5	SLV	0.42	-124	5	SLV	0.34	-123	5	SLV	0.42	-123	5	SLV	0.34
-122	5	SLV	0.40	-122	5	SLV	0.33	-121	5	SLV	0.37	-121	5	SLV	0.30
-120	5	SLV	0.35	-120	5	SLV	0.28	-119	5	SLV	0.33	-119	5	SLV	0.26
-118	5	SLV	0.34	-118	5	SLV	0.26	-117	5	SLV	0.37	-117	5	SLV	0.28
-116	5	SLV	0.43	-116	5	SLV	0.31	-115	5	SLV	0.51	-115	5	SLV	0.37
-114	5	SLV	0.61	-114	5	SLV	0.43	-113	5	SLV	0.72	-113	5	SLV	0.50
-112	5	SLV	0.82	-112	5	SLV	0.52	-111	5	SLV	0.69	-111	5	SLV	0.45
-110	5	SLV	0.58	-110	5	SLV	0.38	-109	5	SLV	0.48	-109	5	SLV	0.32
-108	5	SLV	0.42	-108	5	SLV	0.28	-107	5	SLV	0.38	-107	5	SLV	0.27
-106	5	SLV	0.38	-106	5	SLV	0.27	-105	5	SLV	0.40	-105	5	SLV	0.29
-104	5	SLV	0.44	-104	5	SLV	0.32	-103	5	SLV	0.47	-103	5	SLV	0.35
-102	5	SLV	0.49	-102	5	SLV	0.38	-101	5	SLV	0.49	-101	5	SLV	0.37
-100	5	SLV	0.46	-100	5	SLV	0.35	-99	5	SLV	0.43	-99	5	SLV	0.33
-98	5	SLV	0.42	-98	5	SLV	0.32	-97	5	SLV	0.42	-97	5	SLV	0.32
-96	5	SLV	0.44	-96	5	SLV	0.33	-95	5	SLV	0.47	-95	5	SLV	0.35
-94	5	SLV	0.50	-94	5	SLV	0.38	-93	5	SLV	0.51	-93	5	SLV	0.39
-92	5	SLV	0.50	-92	5	SLV	0.38	-91	5	SLV	0.47	-91	5	SLV	0.35
-90	5	SLV	0.44	-90	5	SLV	0.33	-89	5	SLV	0.42	-89	5	SLV	0.32
-88	5	SLV	0.42	-88	5	SLV	0.32	-87	5	SLV	0.43	-87	5	SLV	0.33
-86	5	SLV	0.46	-86	5	SLV	0.35	-85	5	SLV	0.49	-85	5	SLV	0.37
-84	5	SLV	0.49	-84	5	SLV	0.38	-83	5	SLV	0.47	-83	5	SLV	0.35
-82	5	SLV	0.44	-82	5	SLV	0.32	-81	5	SLV	0.40	-81	5	SLV	0.29
-80	5	SLV	0.38	-80	5	SLV	0.27	-79	5	SLV	0.38	-79	5	SLV	0.27
-78	5	SLV	0.42	-78	5	SLV	0.28	-77	5	SLV	0.48	-77	5	SLV	0.32
-76	5	SLV	0.58	-76	5	SLV	0.38	-75	5	SLV	0.69	-75	5	SLV	0.45
-74	5	SLV	0.82	-74	5	SLV	0.52	-73	5	SLV	0.79	-73	5	SLV	0.46
-72	5	SLV	0.65	-72	5	SLV	0.39	-71	5	SLV	0.54	-71	5	SLV	0.33
-70	5	SLV	0.47	-70	5	SLV	0.29	-69	5	SLV	0.43	-69	5	SLV	0.28
-68	5	SLV	0.43	-68	5	SLV	0.28	-67	5	SLV	0.46	-67	5	SLV	0.31
-66	5	SLV	0.51	-66	5	SLV	0.34	-65	5	SLV	0.56	-65	5	SLV	0.38
-64	5	SLV	0.58	-64	5	SLV	0.40	-63	5	SLV	0.53	-63	5	SLV	0.37
-62	5	SLV	0.49	-62	5	SLV	0.35	-61	5	SLV	0.47	-61	5	SLV	0.34
-60	5	SLV	0.47	-60	5	SLV	0.34	-59	5	SLV	0.50	-59	5	SLV	0.35
-58	5	SLV	0.54	-58	5	SLV	0.37	-57	5	SLV	0.58	-57	5	SLV	0.40

-56	5	SLV	0.58	-56	5	SLV	0.40	-55	5	SLV	0.54	-55	5	SLV	0.37
-54	5	SLV	0.50	-54	5	SLV	0.35	-53	5	SLV	0.47	-53	5	SLV	0.34
-52	5	SLV	0.47	-52	5	SLV	0.34	-51	5	SLV	0.49	-51	5	SLV	0.35
-50	5	SLV	0.53	-50	5	SLV	0.37	-49	5	SLV	0.58	-49	5	SLV	0.40
-48	5	SLV	0.56	-48	5	SLV	0.38	-47	5	SLV	0.51	-47	5	SLV	0.34
-46	5	SLV	0.46	-46	5	SLV	0.31	-45	5	SLV	0.43	-45	5	SLV	0.28
-44	5	SLV	0.43	-44	5	SLV	0.28	-43	5	SLV	0.47	-43	5	SLV	0.29
-42	5	SLV	0.54	-42	5	SLV	0.33	-41	5	SLV	0.65	-41	5	SLV	0.39
-40	5	SLV	0.79	-40	5	SLV	0.46	-39	5	SLV	0.95	-39	5	SLV	0.52
-38	5	SLV	0.82	-38	5	SLV	0.46	-37	5	SLV	0.68	-37	5	SLV	0.39
-36	5	SLV	0.56	-36	5	SLV	0.33	-35	5	SLV	0.48	-35	5	SLV	0.29
-34	5	SLV	0.45	-34	5	SLV	0.28	-33	5	SLV	0.45	-33	5	SLV	0.29
-32	5	SLV	0.48	-32	5	SLV	0.31	-31	5	SLV	0.53	-31	5	SLV	0.35
-30	5	SLV	0.59	-30	5	SLV	0.39	-29	5	SLV	0.62	-29	5	SLV	0.41
-28	5	SLV	0.60	-28	5	SLV	0.40	-27	5	SLV	0.55	-27	5	SLV	0.38
-26	5	SLV	0.51	-26	5	SLV	0.35	-25	5	SLV	0.49	-25	5	SLV	0.34
-24	5	SLV	0.49	-24	5	SLV	0.34	-23	5	SLV	0.51	-23	5	SLV	0.35
-22	5	SLV	0.56	-22	5	SLV	0.38	-21	5	SLV	0.61	-21	5	SLV	0.41
-20	5	SLV	0.63	-20	5	SLV	0.42	-19	5	SLV	0.61	-19	5	SLV	0.41
-18	5	SLV	0.56	-18	5	SLV	0.38	-17	5	SLV	0.51	-17	5	SLV	0.35
-16	5	SLV	0.49	-16	5	SLV	0.34	-15	5	SLV	0.49	-15	5	SLV	0.34
-14	5	SLV	0.51	-14	5	SLV	0.35	-13	5	SLV	0.55	-13	5	SLV	0.38
-12	5	SLV	0.60	-12	5	SLV	0.40	-11	5	SLV	0.62	-11	5	SLV	0.41
-10	5	SLV	0.59	-10	5	SLV	0.39	-9	5	SLV	0.53	-9	5	SLV	0.35
-8	5	SLV	0.48	-8	5	SLV	0.31	-7	5	SLV	0.45	-7	5	SLV	0.29
-6	5	SLV	0.45	-6	5	SLV	0.28	-5	5	SLV	0.48	-5	5	SLV	0.29
-4	5	SLV	0.56	-4	5	SLV	0.33	-3	5	SLV	0.68	-3	5	SLV	0.39
-2	5	SLV	0.82	-2	5	SLV	0.46	-1	5	SLV	0.95	-1	5	SLV	0.52
1	5	SLV	0.93	1	5	SLV	0.53	2	5	SLV	0.60	2	5	SLV	0.41
3	5	SLV	0.61	3	5	SLV	0.42	4	5	SLV	0.60	4	5	SLV	0.41
5	5	SLV	0.93	5	5	SLV	0.53	6	5	SLV	0.67	6	5	SLV	0.62
7	5	SLV	0.39	7	5	SLV	0.37	8	5	SLV	0.40	8	5	SLV	0.39
9	5	SLV	0.39	9	5	SLV	0.37	10	5	SLV	0.67	10	5	SLV	0.62
11	5	SLV	0.68	11	5	SLV	0.63	12	5	SLV	0.39	12	5	SLV	0.37
13	5	SLV	0.40	13	5	SLV	0.39	14	5	SLV	0.39	14	5	SLV	0.37
15	5	SLV	0.68	15	5	SLV	0.63	16	5	SLV	1.01	16	5	SLV	0.62
17	5	SLV	0.66	17	5	SLV	0.48	18	5	SLV	0.67	18	5	SLV	0.49
19	5	SLV	0.66	19	5	SLV	0.48	20	5	SLV	1.01	20	5	SLV	0.62
-916	7	SLV	0.98	-916	7	SLV	0.68	-915	7	SLV	0.85	-915	7	SLV	0.58
-914	7	SLV	0.71	-914	7	SLV	0.48	-913	7	SLV	0.59	-913	7	SLV	0.40
-912	7	SLV	0.51	-912	7	SLV	0.35	-911	7	SLV	0.48	-911	7	SLV	0.33
-910	7	SLV	0.48	-910	7	SLV	0.34	-909	7	SLV	0.51	-909	7	SLV	0.37
-908	7	SLV	0.57	-908	7	SLV	0.42	-907	7	SLV	0.64	-907	7	SLV	0.46
-906	7	SLV	0.69	-906	7	SLV	0.49	-905	7	SLV	0.66	-905	7	SLV	0.48
-904	7	SLV	0.60	-904	7	SLV	0.45	-903	7	SLV	0.56	-903	7	SLV	0.42
-902	7	SLV	0.53	-902	7	SLV	0.40	-901	7	SLV	0.54	-901	7	SLV	0.40
-900	7	SLV	0.56	-900	7	SLV	0.42	-899	7	SLV	0.61	-899	7	SLV	0.45
-898	7	SLV	0.67	-898	7	SLV	0.49	-897	7	SLV	0.70	-897	7	SLV	0.50
-896	7	SLV	0.67	-896	7	SLV	0.49	-895	7	SLV	0.61	-895	7	SLV	0.45
-894	7	SLV	0.56	-894	7	SLV	0.42	-893	7	SLV	0.54	-893	7	SLV	0.40
-892	7	SLV	0.53	-892	7	SLV	0.40	-891	7	SLV	0.56	-891	7	SLV	0.42

-890	7	SLV	0.60	-890	7	SLV	0.45	-889	7	SLV	0.66	-889	7	SLV	0.48
-888	7	SLV	0.69	-888	7	SLV	0.49	-887	7	SLV	0.64	-887	7	SLV	0.46
-886	7	SLV	0.57	-886	7	SLV	0.42	-885	7	SLV	0.51	-885	7	SLV	0.37
-884	7	SLV	0.48	-884	7	SLV	0.34	-883	7	SLV	0.48	-883	7	SLV	0.33
-882	7	SLV	0.51	-882	7	SLV	0.35	-881	7	SLV	0.59	-881	7	SLV	0.40
-880	7	SLV	0.71	-880	7	SLV	0.48	-879	7	SLV	0.85	-879	7	SLV	0.58
-878	7	SLV	0.98	-878	7	SLV	0.68	-877	7	SLV	0.82	-877	7	SLV	0.57
-876	7	SLV	0.68	-876	7	SLV	0.47	-875	7	SLV	0.57	-875	7	SLV	0.40
-874	7	SLV	0.50	-874	7	SLV	0.35	-873	7	SLV	0.46	-873	7	SLV	0.33
-872	7	SLV	0.46	-872	7	SLV	0.33	-871	7	SLV	0.49	-871	7	SLV	0.36
-870	7	SLV	0.55	-870	7	SLV	0.41	-869	7	SLV	0.61	-869	7	SLV	0.45
-868	7	SLV	0.63	-868	7	SLV	0.47	-867	7	SLV	0.58	-867	7	SLV	0.44
-866	7	SLV	0.54	-866	7	SLV	0.41	-865	7	SLV	0.52	-865	7	SLV	0.39
-864	7	SLV	0.52	-864	7	SLV	0.39	-863	7	SLV	0.54	-863	7	SLV	0.41
-862	7	SLV	0.58	-862	7	SLV	0.44	-861	7	SLV	0.64	-861	7	SLV	0.47
-860	7	SLV	0.64	-860	7	SLV	0.47	-859	7	SLV	0.58	-859	7	SLV	0.44
-858	7	SLV	0.54	-858	7	SLV	0.41	-857	7	SLV	0.52	-857	7	SLV	0.39
-856	7	SLV	0.52	-856	7	SLV	0.39	-855	7	SLV	0.54	-855	7	SLV	0.41
-854	7	SLV	0.58	-854	7	SLV	0.44	-853	7	SLV	0.63	-853	7	SLV	0.47
-852	7	SLV	0.61	-852	7	SLV	0.45	-851	7	SLV	0.55	-851	7	SLV	0.41
-850	7	SLV	0.49	-850	7	SLV	0.36	-849	7	SLV	0.46	-849	7	SLV	0.33
-848	7	SLV	0.46	-848	7	SLV	0.33	-847	7	SLV	0.50	-847	7	SLV	0.35
-846	7	SLV	0.57	-846	7	SLV	0.40	-845	7	SLV	0.68	-845	7	SLV	0.47
-844	7	SLV	0.82	-844	7	SLV	0.57	-843	7	SLV	0.83	-843	7	SLV	0.65
-842	7	SLV	0.71	-842	7	SLV	0.54	-841	7	SLV	0.59	-841	7	SLV	0.45
-840	7	SLV	0.50	-840	7	SLV	0.37	-839	7	SLV	0.43	-839	7	SLV	0.33
-838	7	SLV	0.40	-838	7	SLV	0.30	-837	7	SLV	0.40	-837	7	SLV	0.31
-836	7	SLV	0.42	-836	7	SLV	0.33	-835	7	SLV	0.47	-835	7	SLV	0.37
-834	7	SLV	0.51	-834	7	SLV	0.40	-833	7	SLV	0.54	-833	7	SLV	0.43
-832	7	SLV	0.53	-832	7	SLV	0.42	-831	7	SLV	0.50	-831	7	SLV	0.40
-830	7	SLV	0.47	-830	7	SLV	0.37	-829	7	SLV	0.45	-829	7	SLV	0.36
-828	7	SLV	0.45	-828	7	SLV	0.36	-827	7	SLV	0.47	-827	7	SLV	0.37
-826	7	SLV	0.50	-826	7	SLV	0.40	-825	7	SLV	0.54	-825	7	SLV	0.43
-824	7	SLV	0.55	-824	7	SLV	0.44	-823	7	SLV	0.54	-823	7	SLV	0.43
-822	7	SLV	0.50	-822	7	SLV	0.40	-821	7	SLV	0.47	-821	7	SLV	0.37
-820	7	SLV	0.45	-820	7	SLV	0.36	-819	7	SLV	0.45	-819	7	SLV	0.36
-818	7	SLV	0.47	-818	7	SLV	0.37	-817	7	SLV	0.50	-817	7	SLV	0.40
-816	7	SLV	0.53	-816	7	SLV	0.42	-815	7	SLV	0.54	-815	7	SLV	0.43
-814	7	SLV	0.51	-814	7	SLV	0.40	-813	7	SLV	0.47	-813	7	SLV	0.37
-812	7	SLV	0.42	-812	7	SLV	0.33	-811	7	SLV	0.40	-811	7	SLV	0.31
-810	7	SLV	0.40	-810	7	SLV	0.30	-809	7	SLV	0.43	-809	7	SLV	0.33
-808	7	SLV	0.50	-808	7	SLV	0.37	-807	7	SLV	0.59	-807	7	SLV	0.45
-806	7	SLV	0.71	-806	7	SLV	0.54	-805	7	SLV	0.83	-805	7	SLV	0.65
-804	7	SLV	0.72	-804	7	SLV	0.60	-803	7	SLV	0.61	-803	7	SLV	0.50
-802	7	SLV	0.52	-802	7	SLV	0.42	-801	7	SLV	0.43	-801	7	SLV	0.35
-800	7	SLV	0.38	-800	7	SLV	0.31	-799	7	SLV	0.35	-799	7	SLV	0.28
-798	7	SLV	0.34	-798	7	SLV	0.29	-797	7	SLV	0.36	-797	7	SLV	0.30
-796	7	SLV	0.39	-796	7	SLV	0.33	-795	7	SLV	0.42	-795	7	SLV	0.36
-794	7	SLV	0.44	-794	7	SLV	0.37	-793	7	SLV	0.44	-793	7	SLV	0.37
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-790	7	SLV	0.39	-790	7	SLV	0.33	-789	7	SLV	0.39	-789	7	SLV	0.33

-788	7	SLV	0.41	-788	7	SLV	0.34	-787	7	SLV	0.43	-787	7	SLV	0.36
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-784	7	SLV	0.45	-784	7	SLV	0.38	-783	7	SLV	0.43	-783	7	SLV	0.36
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-768	7	SLV	0.52	-768	7	SLV	0.42	-767	7	SLV	0.61	-767	7	SLV	0.50
-766	7	SLV	0.72	-766	7	SLV	0.60	-765	7	SLV	0.64	-765	7	SLV	0.57
-764	7	SLV	0.55	-764	7	SLV	0.48	-763	7	SLV	0.46	-763	7	SLV	0.40
-762	7	SLV	0.39	-762	7	SLV	0.34	-761	7	SLV	0.33	-761	7	SLV	0.29
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-756	7	SLV	0.36	-756	7	SLV	0.33	-755	7	SLV	0.38	-755	7	SLV	0.34
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-744	7	SLV	0.38	-744	7	SLV	0.34	-743	7	SLV	0.36	-743	7	SLV	0.32
-742	7	SLV	0.35	-742	7	SLV	0.31	-741	7	SLV	0.35	-741	7	SLV	0.31
-740	7	SLV	0.35	-740	7	SLV	0.32	-739	7	SLV	0.37	-739	7	SLV	0.33
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-734	7	SLV	0.32	-734	7	SLV	0.28	-733	7	SLV	0.30	-733	7	SLV	0.27
-732	7	SLV	0.31	-732	7	SLV	0.27	-731	7	SLV	0.33	-731	7	SLV	0.29
-730	7	SLV	0.39	-730	7	SLV	0.34	-729	7	SLV	0.46	-729	7	SLV	0.40
-728	7	SLV	0.55	-728	7	SLV	0.48	-727	7	SLV	0.64	-727	7	SLV	0.57
-726	7	SLV	0.61	-726	7	SLV	0.56	-725	7	SLV	0.52	-725	7	SLV	0.48
-724	7	SLV	0.43	-724	7	SLV	0.40	-723	7	SLV	0.36	-723	7	SLV	0.33
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-720	7	SLV	0.27	-720	7	SLV	0.26	-719	7	SLV	0.29	-719	7	SLV	0.27
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-716	7	SLV	0.35	-716	7	SLV	0.33	-715	7	SLV	0.35	-715	7	SLV	0.33
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-706	7	SLV	0.36	-706	7	SLV	0.34	-705	7	SLV	0.35	-705	7	SLV	0.33
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-686	7	SLV	0.51	-686	7	SLV	0.49	-685	7	SLV	0.42	-685	7	SLV	0.41
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-682	7	SLV	0.26	-682	7	SLV	0.26	-681	7	SLV	0.26	-681	7	SLV	0.26
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-678	7	SLV	0.33	-678	7	SLV	0.32	-677	7	SLV	0.35	-677	7	SLV	0.34
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-620	7	SLV	0.36	-620	7	SLV	0.36	-619	7	SLV	0.34	-619	7	SLV	0.34
-618	7	SLV	0.31	-618	7	SLV	0.31	-617	7	SLV	0.28	-617	7	SLV	0.27
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-612	7	SLV	0.42	-612	7	SLV	0.42	-611	7	SLV	0.52	-611	7	SLV	0.52
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-594	7	SLV	0.35	-594	7	SLV	0.34	-593	7	SLV	0.38	-593	7	SLV	0.37
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-580	7	SLV	0.27	-580	7	SLV	0.26	-579	7	SLV	0.29	-579	7	SLV	0.29
-578	7	SLV	0.34	-578	7	SLV	0.35	-577	7	SLV	0.42	-577	7	SLV	0.43
-576	7	SLV	0.52	-576	7	SLV	0.55	-575	7	SLV	0.63	-575	7	SLV	0.64
-574	7	SLV	0.52	-574	7	SLV	0.53	-573	7	SLV	0.42	-573	7	SLV	0.43
-572	7	SLV	0.34	-572	7	SLV	0.34	-571	7	SLV	0.29	-571	7	SLV	0.29
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-566	7	SLV	0.35	-566	7	SLV	0.33	-565	7	SLV	0.38	-565	7	SLV	0.35
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-544	7	SLV	0.28	-544	7	SLV	0.27	-543	7	SLV	0.26	-543	7	SLV	0.25
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-502	7	SLV	0.29	-502	7	SLV	0.29	-501	7	SLV	0.34	-501	7	SLV	0.34
-500	7	SLV	0.41	-500	7	SLV	0.42	-499	7	SLV	0.50	-499	7	SLV	0.51
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-490	7	SLV	0.27	-490	7	SLV	0.27	-489	7	SLV	0.30	-489	7	SLV	0.29
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-486	7	SLV	0.33	-486	7	SLV	0.33	-485	7	SLV	0.32	-485	7	SLV	0.32
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-420	7	SLV	0.57	-420	7	SLV	0.59	-419	7	SLV	0.59	-419	7	SLV	0.61
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-416	7	SLV	0.34	-416	7	SLV	0.34	-415	7	SLV	0.29	-415	7	SLV	0.29
-414	7	SLV	0.27	-414	7	SLV	0.26	-413	7	SLV	0.26	-413	7	SLV	0.25
-412	7	SLV	0.28	-412	7	SLV	0.27	-411	7	SLV	0.31	-411	7	SLV	0.29
-410	7	SLV	0.34	-410	7	SLV	0.32	-409	7	SLV	0.35	-409	7	SLV	0.33
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-296	7	SLV	0.35	-296	7	SLV	0.36	-295	7	SLV	0.33	-295	7	SLV	0.33
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-282	7	SLV	0.31	-282	7	SLV	0.31	-281	7	SLV	0.33	-281	7	SLV	0.33
-280	7	SLV	0.35	-280	7	SLV	0.36	-279	7	SLV	0.36	-279	7	SLV	0.36

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-276	7	SLV	0.28	-276	7	SLV	0.27	-275	7	SLV	0.26	-275	7	SLV	0.26
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-270	7	SLV	0.51	-270	7	SLV	0.52	-269	7	SLV	0.62	-269	7	SLV	0.62
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-226	7	SLV	0.35	-226	7	SLV	0.32	-225	7	SLV	0.30	-225	7	SLV	0.28
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-182	7	SLV	0.33	-182	7	SLV	0.29	-181	7	SLV	0.35	-181	7	SLV	0.31
-180	7	SLV	0.37	-180	7	SLV	0.32	-179	7	SLV	0.37	-179	7	SLV	0.32
-178	7	SLV	0.36	-178	7	SLV	0.32	-177	7	SLV	0.34	-177	7	SLV	0.31

-176	7	SLV	0.33	-176	7	SLV	0.30	-175	7	SLV	0.34	-175	7	SLV	0.30
-174	7	SLV	0.35	-174	7	SLV	0.31	-173	7	SLV	0.36	-173	7	SLV	0.32
-172	7	SLV	0.38	-172	7	SLV	0.33	-171	7	SLV	0.38	-171	7	SLV	0.34
-170	7	SLV	0.38	-170	7	SLV	0.33	-169	7	SLV	0.36	-169	7	SLV	0.32
-168	7	SLV	0.35	-168	7	SLV	0.31	-167	7	SLV	0.34	-167	7	SLV	0.30
-166	7	SLV	0.33	-166	7	SLV	0.30	-165	7	SLV	0.34	-165	7	SLV	0.31
-164	7	SLV	0.36	-164	7	SLV	0.32	-163	7	SLV	0.37	-163	7	SLV	0.32
-162	7	SLV	0.37	-162	7	SLV	0.32	-161	7	SLV	0.35	-161	7	SLV	0.31
-160	7	SLV	0.33	-160	7	SLV	0.29	-159	7	SLV	0.31	-159	7	SLV	0.27
-158	7	SLV	0.29	-158	7	SLV	0.26	-157	7	SLV	0.30	-157	7	SLV	0.26
-156	7	SLV	0.32	-156	7	SLV	0.28	-155	7	SLV	0.37	-155	7	SLV	0.32
-154	7	SLV	0.44	-154	7	SLV	0.38	-153	7	SLV	0.52	-153	7	SLV	0.46
-152	7	SLV	0.61	-152	7	SLV	0.54	-151	7	SLV	0.67	-151	7	SLV	0.55
-150	7	SLV	0.58	-150	7	SLV	0.47	-149	7	SLV	0.49	-149	7	SLV	0.39
-148	7	SLV	0.41	-148	7	SLV	0.33	-147	7	SLV	0.36	-147	7	SLV	0.29
-146	7	SLV	0.33	-146	7	SLV	0.27	-145	7	SLV	0.33	-145	7	SLV	0.27
-144	7	SLV	0.34	-144	7	SLV	0.28	-143	7	SLV	0.37	-143	7	SLV	0.31
-142	7	SLV	0.40	-142	7	SLV	0.33	-141	7	SLV	0.42	-141	7	SLV	0.34
-140	7	SLV	0.41	-140	7	SLV	0.34	-139	7	SLV	0.40	-139	7	SLV	0.33
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-134	7	SLV	0.40	-134	7	SLV	0.34	-133	7	SLV	0.42	-133	7	SLV	0.35
-132	7	SLV	0.43	-132	7	SLV	0.36	-131	7	SLV	0.42	-131	7	SLV	0.35
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-126	7	SLV	0.38	-126	7	SLV	0.32	-125	7	SLV	0.40	-125	7	SLV	0.33
-124	7	SLV	0.41	-124	7	SLV	0.34	-123	7	SLV	0.42	-123	7	SLV	0.34
-122	7	SLV	0.40	-122	7	SLV	0.33	-121	7	SLV	0.37	-121	7	SLV	0.31
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-116	7	SLV	0.41	-116	7	SLV	0.33	-115	7	SLV	0.49	-115	7	SLV	0.39
-114	7	SLV	0.58	-114	7	SLV	0.47	-113	7	SLV	0.67	-113	7	SLV	0.55
-112	7	SLV	0.76	-112	7	SLV	0.58	-111	7	SLV	0.65	-111	7	SLV	0.49
-110	7	SLV	0.55	-110	7	SLV	0.40	-109	7	SLV	0.46	-109	7	SLV	0.34
-108	7	SLV	0.40	-108	7	SLV	0.30	-107	7	SLV	0.37	-107	7	SLV	0.28
-106	7	SLV	0.37	-106	7	SLV	0.28	-105	7	SLV	0.39	-105	7	SLV	0.30
-104	7	SLV	0.43	-104	7	SLV	0.33	-103	7	SLV	0.47	-103	7	SLV	0.36
-102	7	SLV	0.49	-102	7	SLV	0.38	-101	7	SLV	0.49	-101	7	SLV	0.37
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-94	7	SLV	0.49	-94	7	SLV	0.38	-93	7	SLV	0.51	-93	7	SLV	0.39
-92	7	SLV	0.49	-92	7	SLV	0.38	-91	7	SLV	0.46	-91	7	SLV	0.36
-90	7	SLV	0.43	-90	7	SLV	0.33	-89	7	SLV	0.42	-89	7	SLV	0.32
-88	7	SLV	0.42	-88	7	SLV	0.32	-87	7	SLV	0.43	-87	7	SLV	0.33
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-84	7	SLV	0.49	-84	7	SLV	0.38	-83	7	SLV	0.47	-83	7	SLV	0.36
-82	7	SLV	0.43	-82	7	SLV	0.33	-81	7	SLV	0.39	-81	7	SLV	0.30
-80	7	SLV	0.37	-80	7	SLV	0.28	-79	7	SLV	0.37	-79	7	SLV	0.28
-78	7	SLV	0.40	-78	7	SLV	0.30	-77	7	SLV	0.46	-77	7	SLV	0.34
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-74	7	SLV	0.76	-74	7	SLV	0.58	-73	7	SLV	0.75	-73	7	SLV	0.51
-72	7	SLV	0.62	-72	7	SLV	0.42	-71	7	SLV	0.52	-71	7	SLV	0.35
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-66	7	SLV	0.50	-66	7	SLV	0.35	-65	7	SLV	0.56	-65	7	SLV	0.39
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-38	7	SLV	0.77	-38	7	SLV	0.51	-37	7	SLV	0.64	-37	7	SLV	0.42
-36	7	SLV	0.54	-36	7	SLV	0.35	-35	7	SLV	0.47	-35	7	SLV	0.31
-34	7	SLV	0.44	-34	7	SLV	0.29	-33	7	SLV	0.44	-33	7	SLV	0.30
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-24	7	SLV	0.48	-24	7	SLV	0.34	-23	7	SLV	0.51	-23	7	SLV	0.36
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-20	7	SLV	0.63	-20	7	SLV	0.42	-19	7	SLV	0.60	-19	7	SLV	0.42
-18	7	SLV	0.55	-18	7	SLV	0.39	-17	7	SLV	0.51	-17	7	SLV	0.36
-16	7	SLV	0.48	-16	7	SLV	0.34	-15	7	SLV	0.49	-15	7	SLV	0.34
-14	7	SLV	0.51	-14	7	SLV	0.36	-13	7	SLV	0.55	-13	7	SLV	0.38
-12	7	SLV	0.60	-12	7	SLV	0.41	-11	7	SLV	0.62	-11	7	SLV	0.41
-10	7	SLV	0.58	-10	7	SLV	0.40	-9	7	SLV	0.52	-9	7	SLV	0.36
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-4	7	SLV	0.54	-4	7	SLV	0.35	-3	7	SLV	0.64	-3	7	SLV	0.42
-2	7	SLV	0.77	-2	7	SLV	0.51	-1	7	SLV	0.88	-1	7	SLV	0.59
1	7	SLV	0.86	1	7	SLV	0.60	2	7	SLV	0.60	2	7	SLV	0.41
3	7	SLV	0.61	3	7	SLV	0.42	4	7	SLV	0.60	4	7	SLV	0.41
5	7	SLV	0.86	5	7	SLV	0.60	6	7	SLV	0.62	6	7	SLV	0.67
7	7	SLV	0.39	7	7	SLV	0.38	8	7	SLV	0.40	8	7	SLV	0.39
9	7	SLV	0.39	9	7	SLV	0.38	10	7	SLV	0.62	10	7	SLV	0.67
11	7	SLV	0.63	11	7	SLV	0.68	12	7	SLV	0.39	12	7	SLV	0.38
13	7	SLV	0.40	13	7	SLV	0.39	14	7	SLV	0.39	14	7	SLV	0.38
15	7	SLV	0.63	15	7	SLV	0.68	16	7	SLV	0.95	16	7	SLV	0.68
17	7	SLV	0.66	17	7	SLV	0.48	18	7	SLV	0.67	18	7	SLV	0.49
19	7	SLV	0.66	19	7	SLV	0.48	20	7	SLV	0.95	20	7	SLV	0.68
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-808	9	SLU	0.67	-807	9	SLU	0.80	-806	9	SLU	0.96	-805	9	SLU	1.13
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-704	9	SLU	0.50	-703	9	SLU	0.48	-702	9	SLU	0.48	-701	9	SLU	0.49
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1	9	SLU	1.12	2	9	SLU	0.78	3	9	SLU	0.80	4	9	SLU	0.78
5	9	SLU	1.12	6	9	SLU	1.01	7	9	SLU	0.60	8	9	SLU	0.63
9	9	SLU	0.60	10	9	SLU	1.01	11	9	SLU	1.03	12	9	SLU	0.61
13	9	SLU	0.63	14	9	SLU	0.61	15	9	SLU	1.03	16	9	SLU	1.26
17	9	SLU	0.88	18	9	SLU	0.90	19	9	SLU	0.88	20	9	SLU	1.26
-916	10	SLE R	0.91	-915	10	SLE R	0.78	-914	10	SLE R	0.65	-913	10	SLE R	0.54
-912	10	SLE R	0.47	-911	10	SLE R	0.44	-910	10	SLE R	0.45	-909	10	SLE R	0.48
-908	10	SLE R	0.54	-907	10	SLE R	0.61	-906	10	SLE R	0.65	-905	10	SLE R	0.63
-904	10	SLE R	0.58	-903	10	SLE R	0.54	-902	10	SLE R	0.51	-901	10	SLE R	0.51
-900	10	SLE R	0.54	-899	10	SLE R	0.58	-898	10	SLE R	0.63	-897	10	SLE R	0.66
-896	10	SLE R	0.63	-895	10	SLE R	0.58	-894	10	SLE R	0.54	-893	10	SLE R	0.51
-892	10	SLE R	0.51	-891	10	SLE R	0.54	-890	10	SLE R	0.58	-889	10	SLE R	0.63
-888	10	SLE R	0.65	-887	10	SLE R	0.61	-886	10	SLE R	0.54	-885	10	SLE R	0.48
-884	10	SLE R	0.45	-883	10	SLE R	0.44	-882	10	SLE R	0.47	-881	10	SLE R	0.54
-880	10	SLE R	0.65	-879	10	SLE R	0.78	-878	10	SLE R	0.91	-877	10	SLE R	0.76
-876	10	SLE R	0.63	-875	10	SLE R	0.53	-874	10	SLE R	0.46	-873	10	SLE R	0.43
-872	10	SLE R	0.43	-871	10	SLE R	0.47	-870	10	SLE R	0.52	-869	10	SLE R	0.59
-868	10	SLE R	0.60	-867	10	SLE R	0.56	-866	10	SLE R	0.52	-865	10	SLE R	0.50
-864	10	SLE R	0.50	-863	10	SLE R	0.52	-862	10	SLE R	0.56	-861	10	SLE R	0.61
-860	10	SLE R	0.61	-859	10	SLE R	0.56	-858	10	SLE R	0.52	-857	10	SLE R	0.50
-856	10	SLE R	0.50	-855	10	SLE R	0.52	-854	10	SLE R	0.56	-853	10	SLE R	0.60
-852	10	SLE R	0.59	-851	10	SLE R	0.52	-850	10	SLE R	0.47	-849	10	SLE R	0.43
-848	10	SLE R	0.43	-847	10	SLE R	0.46	-846	10	SLE R	0.53	-845	10	SLE R	0.63
-844	10	SLE R	0.76	-843	10	SLE R	0.81	-842	10	SLE R	0.68	-841	10	SLE R	0.57
-840	10	SLE R	0.48	-839	10	SLE R	0.41	-838	10	SLE R	0.38	-837	10	SLE R	0.39
-836	10	SLE R	0.41	-835	10	SLE R	0.46	-834	10	SLE R	0.50	-833	10	SLE R	0.53
-832	10	SLE R	0.52	-831	10	SLE R	0.49	-830	10	SLE R	0.46	-829	10	SLE R	0.44
-828	10	SLE R	0.44	-827	10	SLE R	0.46	-826	10	SLE R	0.49	-825	10	SLE R	0.53
-824	10	SLE R	0.55	-823	10	SLE R	0.53	-822	10	SLE R	0.49	-821	10	SLE R	0.46
-820	10	SLE R	0.44	-819	10	SLE R	0.44	-818	10	SLE R	0.46	-817	10	SLE R	0.49

-816	10	SLE R	0.52	-815	10	SLE R	0.53	-814	10	SLE R	0.50	-813	10	SLE R	0.46
-812	10	SLE R	0.41	-811	10	SLE R	0.39	-810	10	SLE R	0.38	-809	10	SLE R	0.41
-808	10	SLE R	0.48	-807	10	SLE R	0.57	-806	10	SLE R	0.68	-805	10	SLE R	0.81
-804	10	SLE R	0.72	-803	10	SLE R	0.61	-802	10	SLE R	0.51	-801	10	SLE R	0.43
-800	10	SLE R	0.37	-799	10	SLE R	0.35	-798	10	SLE R	0.34	-797	10	SLE R	0.37
-796	10	SLE R	0.40	-795	10	SLE R	0.43	-794	10	SLE R	0.45	-793	10	SLE R	0.45
-792	10	SLE R	0.43	-791	10	SLE R	0.41	-790	10	SLE R	0.40	-789	10	SLE R	0.40
-788	10	SLE R	0.41	-787	10	SLE R	0.44	-786	10	SLE R	0.46	-785	10	SLE R	0.47
-784	10	SLE R	0.46	-783	10	SLE R	0.44	-782	10	SLE R	0.41	-781	10	SLE R	0.40
-780	10	SLE R	0.40	-779	10	SLE R	0.41	-778	10	SLE R	0.43	-777	10	SLE R	0.45
-776	10	SLE R	0.45	-775	10	SLE R	0.43	-774	10	SLE R	0.40	-773	10	SLE R	0.37
-772	10	SLE R	0.34	-771	10	SLE R	0.35	-770	10	SLE R	0.37	-769	10	SLE R	0.43
-768	10	SLE R	0.51	-767	10	SLE R	0.61	-766	10	SLE R	0.72	-765	10	SLE R	0.67
-764	10	SLE R	0.57	-763	10	SLE R	0.47	-762	10	SLE R	0.40	-761	10	SLE R	0.34
-760	10	SLE R	0.32	-759	10	SLE R	0.31	-758	10	SLE R	0.33	-757	10	SLE R	0.36
-756	10	SLE R	0.38	-755	10	SLE R	0.40	-754	10	SLE R	0.40	-753	10	SLE R	0.39
-752	10	SLE R	0.37	-751	10	SLE R	0.36	-750	10	SLE R	0.37	-749	10	SLE R	0.38
-748	10	SLE R	0.40	-747	10	SLE R	0.41	-746	10	SLE R	0.42	-745	10	SLE R	0.41
-744	10	SLE R	0.40	-743	10	SLE R	0.38	-742	10	SLE R	0.37	-741	10	SLE R	0.36
-740	10	SLE R	0.37	-739	10	SLE R	0.39	-738	10	SLE R	0.40	-737	10	SLE R	0.40
-736	10	SLE R	0.38	-735	10	SLE R	0.36	-734	10	SLE R	0.33	-733	10	SLE R	0.31
-732	10	SLE R	0.32	-731	10	SLE R	0.34	-730	10	SLE R	0.40	-729	10	SLE R	0.47
-728	10	SLE R	0.57	-727	10	SLE R	0.67	-726	10	SLE R	0.65	-725	10	SLE R	0.55
-724	10	SLE R	0.46	-723	10	SLE R	0.38	-722	10	SLE R	0.33	-721	10	SLE R	0.30
-720	10	SLE R	0.30	-719	10	SLE R	0.31	-718	10	SLE R	0.34	-717	10	SLE R	0.36
-716	10	SLE R	0.38	-715	10	SLE R	0.38	-714	10	SLE R	0.37	-713	10	SLE R	0.35
-712	10	SLE R	0.34	-711	10	SLE R	0.35	-710	10	SLE R	0.36	-709	10	SLE R	0.38
-708	10	SLE R	0.39	-707	10	SLE R	0.40	-706	10	SLE R	0.39	-705	10	SLE R	0.38
-704	10	SLE R	0.36	-703	10	SLE R	0.35	-702	10	SLE R	0.34	-701	10	SLE R	0.35
-700	10	SLE R	0.37	-699	10	SLE R	0.38	-698	10	SLE R	0.38	-697	10	SLE R	0.36
-696	10	SLE R	0.34	-695	10	SLE R	0.31	-694	10	SLE R	0.30	-693	10	SLE R	0.30
-692	10	SLE R	0.33	-691	10	SLE R	0.38	-690	10	SLE R	0.46	-689	10	SLE R	0.55
-688	10	SLE R	0.65	-687	10	SLE R	0.67	-686	10	SLE R	0.56	-685	10	SLE R	0.46
-684	10	SLE R	0.38	-683	10	SLE R	0.32	-682	10	SLE R	0.29	-681	10	SLE R	0.29
-680	10	SLE R	0.31	-679	10	SLE R	0.34	-678	10	SLE R	0.37	-677	10	SLE R	0.38
-676	10	SLE R	0.38	-675	10	SLE R	0.37	-674	10	SLE R	0.35	-673	10	SLE R	0.34
-672	10	SLE R	0.34	-671	10	SLE R	0.35	-670	10	SLE R	0.37	-669	10	SLE R	0.39
-668	10	SLE R	0.40	-667	10	SLE R	0.39	-666	10	SLE R	0.37	-665	10	SLE R	0.35
-664	10	SLE R	0.34	-663	10	SLE R	0.34	-662	10	SLE R	0.35	-661	10	SLE R	0.37
-660	10	SLE R	0.38	-659	10	SLE R	0.38	-658	10	SLE R	0.37	-657	10	SLE R	0.34
-656	10	SLE R	0.31	-655	10	SLE R	0.29	-654	10	SLE R	0.29	-653	10	SLE R	0.32
-652	10	SLE R	0.38	-651	10	SLE R	0.46	-650	10	SLE R	0.56	-649	10	SLE R	0.67
-648	10	SLE R	0.70	-647	10	SLE R	0.58	-646	10	SLE R	0.47	-645	10	SLE R	0.38
-644	10	SLE R	0.32	-643	10	SLE R	0.29	-642	10	SLE R	0.29	-641	10	SLE R	0.31
-640	10	SLE R	0.35	-639	10	SLE R	0.39	-638	10	SLE R	0.41	-637	10	SLE R	0.40
-636	10	SLE R	0.38	-635	10	SLE R	0.35	-634	10	SLE R	0.34	-633	10	SLE R	0.34
-632	10	SLE R	0.35	-631	10	SLE R	0.38	-630	10	SLE R	0.41	-629	10	SLE R	0.43
-628	10	SLE R	0.41	-627	10	SLE R	0.38	-626	10	SLE R	0.35	-625	10	SLE R	0.34
-624	10	SLE R	0.34	-623	10	SLE R	0.35	-622	10	SLE R	0.38	-621	10	SLE R	0.40
-620	10	SLE R	0.41	-619	10	SLE R	0.39	-618	10	SLE R	0.35	-617	10	SLE R	0.31
-616	10	SLE R	0.29	-615	10	SLE R	0.29	-614	10	SLE R	0.32	-613	10	SLE R	0.38

-612	10	SLE R	0.47	-611	10	SLE R	0.58	-610	10	SLE R	0.70	-609	10	SLE R	0.60
-608	10	SLE R	0.48	-607	10	SLE R	0.38	-606	10	SLE R	0.32	-605	10	SLE R	0.29
-604	10	SLE R	0.29	-603	10	SLE R	0.31	-602	10	SLE R	0.35	-601	10	SLE R	0.40
-600	10	SLE R	0.41	-599	10	SLE R	0.38	-598	10	SLE R	0.35	-597	10	SLE R	0.34
-596	10	SLE R	0.34	-595	10	SLE R	0.36	-594	10	SLE R	0.39	-593	10	SLE R	0.42
-592	10	SLE R	0.42	-591	10	SLE R	0.39	-590	10	SLE R	0.36	-589	10	SLE R	0.34
-588	10	SLE R	0.34	-587	10	SLE R	0.35	-586	10	SLE R	0.38	-585	10	SLE R	0.41
-584	10	SLE R	0.40	-583	10	SLE R	0.35	-582	10	SLE R	0.31	-581	10	SLE R	0.29
-580	10	SLE R	0.29	-579	10	SLE R	0.32	-578	10	SLE R	0.38	-577	10	SLE R	0.48
-576	10	SLE R	0.60	-575	10	SLE R	0.71	-574	10	SLE R	0.59	-573	10	SLE R	0.47
-572	10	SLE R	0.38	-571	10	SLE R	0.32	-570	10	SLE R	0.29	-569	10	SLE R	0.29
-568	10	SLE R	0.31	-567	10	SLE R	0.35	-566	10	SLE R	0.39	-565	10	SLE R	0.41
-564	10	SLE R	0.41	-563	10	SLE R	0.38	-562	10	SLE R	0.35	-561	10	SLE R	0.34
-560	10	SLE R	0.34	-559	10	SLE R	0.36	-558	10	SLE R	0.38	-557	10	SLE R	0.42
-556	10	SLE R	0.43	-555	10	SLE R	0.42	-554	10	SLE R	0.38	-553	10	SLE R	0.36
-552	10	SLE R	0.34	-551	10	SLE R	0.34	-550	10	SLE R	0.35	-549	10	SLE R	0.38
-548	10	SLE R	0.41	-547	10	SLE R	0.41	-546	10	SLE R	0.39	-545	10	SLE R	0.35
-544	10	SLE R	0.31	-543	10	SLE R	0.29	-542	10	SLE R	0.29	-541	10	SLE R	0.32
-540	10	SLE R	0.38	-539	10	SLE R	0.47	-538	10	SLE R	0.59	-537	10	SLE R	0.71
-536	10	SLE R	0.68	-535	10	SLE R	0.56	-534	10	SLE R	0.46	-533	10	SLE R	0.38
-532	10	SLE R	0.32	-531	10	SLE R	0.29	-530	10	SLE R	0.29	-529	10	SLE R	0.31
-528	10	SLE R	0.34	-527	10	SLE R	0.37	-526	10	SLE R	0.39	-525	10	SLE R	0.39
-524	10	SLE R	0.37	-523	10	SLE R	0.35	-522	10	SLE R	0.34	-521	10	SLE R	0.34
-520	10	SLE R	0.35	-519	10	SLE R	0.38	-518	10	SLE R	0.40	-517	10	SLE R	0.41
-516	10	SLE R	0.40	-515	10	SLE R	0.38	-514	10	SLE R	0.35	-513	10	SLE R	0.34
-512	10	SLE R	0.34	-511	10	SLE R	0.35	-510	10	SLE R	0.37	-509	10	SLE R	0.39
-508	10	SLE R	0.39	-507	10	SLE R	0.37	-506	10	SLE R	0.34	-505	10	SLE R	0.31
-504	10	SLE R	0.29	-503	10	SLE R	0.29	-502	10	SLE R	0.32	-501	10	SLE R	0.38
-500	10	SLE R	0.46	-499	10	SLE R	0.56	-498	10	SLE R	0.68	-497	10	SLE R	0.65
-496	10	SLE R	0.55	-495	10	SLE R	0.45	-494	10	SLE R	0.37	-493	10	SLE R	0.32
-492	10	SLE R	0.29	-491	10	SLE R	0.29	-490	10	SLE R	0.31	-489	10	SLE R	0.33
-488	10	SLE R	0.36	-487	10	SLE R	0.37	-486	10	SLE R	0.37	-485	10	SLE R	0.36
-484	10	SLE R	0.35	-483	10	SLE R	0.34	-482	10	SLE R	0.34	-481	10	SLE R	0.35
-480	10	SLE R	0.37	-479	10	SLE R	0.39	-478	10	SLE R	0.39	-477	10	SLE R	0.39
-476	10	SLE R	0.37	-475	10	SLE R	0.35	-474	10	SLE R	0.34	-473	10	SLE R	0.34
-472	10	SLE R	0.35	-471	10	SLE R	0.36	-470	10	SLE R	0.37	-469	10	SLE R	0.37
-468	10	SLE R	0.36	-467	10	SLE R	0.33	-466	10	SLE R	0.31	-465	10	SLE R	0.29
-464	10	SLE R	0.29	-463	10	SLE R	0.32	-462	10	SLE R	0.37	-461	10	SLE R	0.45
-460	10	SLE R	0.55	-459	10	SLE R	0.65	-458	10	SLE R	0.65	-457	10	SLE R	0.55
-456	10	SLE R	0.45	-455	10	SLE R	0.37	-454	10	SLE R	0.32	-453	10	SLE R	0.29
-452	10	SLE R	0.29	-451	10	SLE R	0.31	-450	10	SLE R	0.33	-449	10	SLE R	0.36
-448	10	SLE R	0.37	-447	10	SLE R	0.37	-446	10	SLE R	0.36	-445	10	SLE R	0.35
-444	10	SLE R	0.34	-443	10	SLE R	0.34	-442	10	SLE R	0.35	-441	10	SLE R	0.37
-440	10	SLE R	0.39	-439	10	SLE R	0.39	-438	10	SLE R	0.39	-437	10	SLE R	0.37
-436	10	SLE R	0.35	-435	10	SLE R	0.34	-434	10	SLE R	0.34	-433	10	SLE R	0.35
-432	10	SLE R	0.36	-431	10	SLE R	0.37	-430	10	SLE R	0.37	-429	10	SLE R	0.36
-428	10	SLE R	0.33	-427	10	SLE R	0.31	-426	10	SLE R	0.29	-425	10	SLE R	0.29
-424	10	SLE R	0.32	-423	10	SLE R	0.37	-422	10	SLE R	0.45	-421	10	SLE R	0.55
-420	10	SLE R	0.65	-419	10	SLE R	0.67	-418	10	SLE R	0.56	-417	10	SLE R	0.46
-416	10	SLE R	0.38	-415	10	SLE R	0.32	-414	10	SLE R	0.29	-413	10	SLE R	0.29
-412	10	SLE R	0.31	-411	10	SLE R	0.34	-410	10	SLE R	0.37	-409	10	SLE R	0.39

-408	10	SLE R	0.39	-407	10	SLE R	0.37	-406	10	SLE R	0.35	-405	10	SLE R	0.34
-404	10	SLE R	0.34	-403	10	SLE R	0.35	-402	10	SLE R	0.38	-401	10	SLE R	0.40
-400	10	SLE R	0.41	-399	10	SLE R	0.40	-398	10	SLE R	0.38	-397	10	SLE R	0.35
-396	10	SLE R	0.34	-395	10	SLE R	0.34	-394	10	SLE R	0.35	-393	10	SLE R	0.37
-392	10	SLE R	0.39	-391	10	SLE R	0.39	-390	10	SLE R	0.37	-389	10	SLE R	0.34
-388	10	SLE R	0.31	-387	10	SLE R	0.29	-386	10	SLE R	0.29	-385	10	SLE R	0.32
-384	10	SLE R	0.38	-383	10	SLE R	0.46	-382	10	SLE R	0.56	-381	10	SLE R	0.67
-380	10	SLE R	0.71	-379	10	SLE R	0.58	-378	10	SLE R	0.47	-377	10	SLE R	0.38
-376	10	SLE R	0.32	-375	10	SLE R	0.29	-374	10	SLE R	0.29	-373	10	SLE R	0.31
-372	10	SLE R	0.35	-371	10	SLE R	0.39	-370	10	SLE R	0.41	-369	10	SLE R	0.41
-368	10	SLE R	0.38	-367	10	SLE R	0.35	-366	10	SLE R	0.34	-365	10	SLE R	0.34
-364	10	SLE R	0.36	-363	10	SLE R	0.38	-362	10	SLE R	0.42	-361	10	SLE R	0.43
-360	10	SLE R	0.42	-359	10	SLE R	0.38	-358	10	SLE R	0.36	-357	10	SLE R	0.34
-356	10	SLE R	0.34	-355	10	SLE R	0.35	-354	10	SLE R	0.38	-353	10	SLE R	0.41
-352	10	SLE R	0.41	-351	10	SLE R	0.39	-350	10	SLE R	0.35	-349	10	SLE R	0.31
-348	10	SLE R	0.29	-347	10	SLE R	0.29	-346	10	SLE R	0.32	-345	10	SLE R	0.38
-344	10	SLE R	0.47	-343	10	SLE R	0.58	-342	10	SLE R	0.71	-341	10	SLE R	0.59
-340	10	SLE R	0.47	-339	10	SLE R	0.38	-338	10	SLE R	0.32	-337	10	SLE R	0.29
-336	10	SLE R	0.29	-335	10	SLE R	0.31	-334	10	SLE R	0.35	-333	10	SLE R	0.40
-332	10	SLE R	0.41	-331	10	SLE R	0.38	-330	10	SLE R	0.35	-329	10	SLE R	0.34
-328	10	SLE R	0.34	-327	10	SLE R	0.36	-326	10	SLE R	0.39	-325	10	SLE R	0.42
-324	10	SLE R	0.42	-323	10	SLE R	0.39	-322	10	SLE R	0.36	-321	10	SLE R	0.34
-320	10	SLE R	0.34	-319	10	SLE R	0.35	-318	10	SLE R	0.38	-317	10	SLE R	0.41
-316	10	SLE R	0.40	-315	10	SLE R	0.35	-314	10	SLE R	0.31	-313	10	SLE R	0.29
-312	10	SLE R	0.29	-311	10	SLE R	0.32	-310	10	SLE R	0.38	-309	10	SLE R	0.47
-308	10	SLE R	0.59	-307	10	SLE R	0.69	-306	10	SLE R	0.58	-305	10	SLE R	0.47
-304	10	SLE R	0.38	-303	10	SLE R	0.32	-302	10	SLE R	0.29	-301	10	SLE R	0.29
-300	10	SLE R	0.31	-299	10	SLE R	0.35	-298	10	SLE R	0.39	-297	10	SLE R	0.41
-296	10	SLE R	0.40	-295	10	SLE R	0.38	-294	10	SLE R	0.35	-293	10	SLE R	0.34
-292	10	SLE R	0.34	-291	10	SLE R	0.35	-290	10	SLE R	0.38	-289	10	SLE R	0.41
-288	10	SLE R	0.43	-287	10	SLE R	0.41	-286	10	SLE R	0.38	-285	10	SLE R	0.35
-284	10	SLE R	0.34	-283	10	SLE R	0.34	-282	10	SLE R	0.35	-281	10	SLE R	0.38
-280	10	SLE R	0.40	-279	10	SLE R	0.41	-278	10	SLE R	0.39	-277	10	SLE R	0.35
-276	10	SLE R	0.31	-275	10	SLE R	0.29	-274	10	SLE R	0.29	-273	10	SLE R	0.32
-272	10	SLE R	0.38	-271	10	SLE R	0.47	-270	10	SLE R	0.58	-269	10	SLE R	0.69
-268	10	SLE R	0.65	-267	10	SLE R	0.55	-266	10	SLE R	0.45	-265	10	SLE R	0.37
-264	10	SLE R	0.32	-263	10	SLE R	0.29	-262	10	SLE R	0.29	-261	10	SLE R	0.31
-260	10	SLE R	0.34	-259	10	SLE R	0.37	-258	10	SLE R	0.38	-257	10	SLE R	0.38
-256	10	SLE R	0.37	-255	10	SLE R	0.35	-254	10	SLE R	0.33	-253	10	SLE R	0.34
-252	10	SLE R	0.35	-251	10	SLE R	0.37	-250	10	SLE R	0.39	-249	10	SLE R	0.40
-248	10	SLE R	0.39	-247	10	SLE R	0.37	-246	10	SLE R	0.35	-245	10	SLE R	0.34
-244	10	SLE R	0.33	-243	10	SLE R	0.35	-242	10	SLE R	0.37	-241	10	SLE R	0.38
-240	10	SLE R	0.38	-239	10	SLE R	0.37	-238	10	SLE R	0.34	-237	10	SLE R	0.31
-236	10	SLE R	0.29	-235	10	SLE R	0.29	-234	10	SLE R	0.32	-233	10	SLE R	0.37
-232	10	SLE R	0.45	-231	10	SLE R	0.55	-230	10	SLE R	0.65	-229	10	SLE R	0.63
-228	10	SLE R	0.54	-227	10	SLE R	0.45	-226	10	SLE R	0.37	-225	10	SLE R	0.32
-224	10	SLE R	0.30	-223	10	SLE R	0.29	-222	10	SLE R	0.31	-221	10	SLE R	0.33
-220	10	SLE R	0.36	-219	10	SLE R	0.37	-218	10	SLE R	0.37	-217	10	SLE R	0.36
-216	10	SLE R	0.35	-215	10	SLE R	0.34	-214	10	SLE R	0.34	-213	10	SLE R	0.35
-212	10	SLE R	0.37	-211	10	SLE R	0.38	-210	10	SLE R	0.39	-209	10	SLE R	0.38
-208	10	SLE R	0.37	-207	10	SLE R	0.35	-206	10	SLE R	0.34	-205	10	SLE R	0.34

-204	10	SLE R	0.35	-203	10	SLE R	0.36	-202	10	SLE R	0.37	-201	10	SLE R	0.37
-200	10	SLE R	0.36	-199	10	SLE R	0.33	-198	10	SLE R	0.31	-197	10	SLE R	0.29
-196	10	SLE R	0.30	-195	10	SLE R	0.32	-194	10	SLE R	0.37	-193	10	SLE R	0.45
-192	10	SLE R	0.54	-191	10	SLE R	0.63	-190	10	SLE R	0.64	-189	10	SLE R	0.54
-188	10	SLE R	0.46	-187	10	SLE R	0.38	-186	10	SLE R	0.33	-185	10	SLE R	0.31
-184	10	SLE R	0.30	-183	10	SLE R	0.32	-182	10	SLE R	0.34	-181	10	SLE R	0.37
-180	10	SLE R	0.38	-179	10	SLE R	0.38	-178	10	SLE R	0.37	-177	10	SLE R	0.36
-176	10	SLE R	0.35	-175	10	SLE R	0.35	-174	10	SLE R	0.36	-173	10	SLE R	0.38
-172	10	SLE R	0.40	-171	10	SLE R	0.40	-170	10	SLE R	0.40	-169	10	SLE R	0.38
-168	10	SLE R	0.36	-167	10	SLE R	0.35	-166	10	SLE R	0.35	-165	10	SLE R	0.36
-164	10	SLE R	0.37	-163	10	SLE R	0.38	-162	10	SLE R	0.38	-161	10	SLE R	0.37
-160	10	SLE R	0.34	-159	10	SLE R	0.32	-158	10	SLE R	0.30	-157	10	SLE R	0.31
-156	10	SLE R	0.33	-155	10	SLE R	0.38	-154	10	SLE R	0.46	-153	10	SLE R	0.54
-152	10	SLE R	0.64	-151	10	SLE R	0.68	-150	10	SLE R	0.58	-149	10	SLE R	0.48
-148	10	SLE R	0.41	-147	10	SLE R	0.35	-146	10	SLE R	0.33	-145	10	SLE R	0.33
-144	10	SLE R	0.34	-143	10	SLE R	0.37	-142	10	SLE R	0.40	-141	10	SLE R	0.42
-140	10	SLE R	0.42	-139	10	SLE R	0.40	-138	10	SLE R	0.39	-137	10	SLE R	0.37
-136	10	SLE R	0.37	-135	10	SLE R	0.39	-134	10	SLE R	0.41	-133	10	SLE R	0.43
-132	10	SLE R	0.44	-131	10	SLE R	0.43	-130	10	SLE R	0.41	-129	10	SLE R	0.39
-128	10	SLE R	0.37	-127	10	SLE R	0.37	-126	10	SLE R	0.39	-125	10	SLE R	0.40
-124	10	SLE R	0.42	-123	10	SLE R	0.42	-122	10	SLE R	0.40	-121	10	SLE R	0.37
-120	10	SLE R	0.34	-119	10	SLE R	0.33	-118	10	SLE R	0.33	-117	10	SLE R	0.35
-116	10	SLE R	0.41	-115	10	SLE R	0.48	-114	10	SLE R	0.58	-113	10	SLE R	0.68
-112	10	SLE R	0.74	-111	10	SLE R	0.63	-110	10	SLE R	0.53	-109	10	SLE R	0.44
-108	10	SLE R	0.38	-107	10	SLE R	0.36	-106	10	SLE R	0.36	-105	10	SLE R	0.38
-104	10	SLE R	0.42	-103	10	SLE R	0.46	-102	10	SLE R	0.48	-101	10	SLE R	0.48
-100	10	SLE R	0.45	-99	10	SLE R	0.42	-98	10	SLE R	0.41	-97	10	SLE R	0.41
-96	10	SLE R	0.42	-95	10	SLE R	0.45	-94	10	SLE R	0.48	-93	10	SLE R	0.50
-92	10	SLE R	0.48	-91	10	SLE R	0.45	-90	10	SLE R	0.42	-89	10	SLE R	0.41
-88	10	SLE R	0.41	-87	10	SLE R	0.42	-86	10	SLE R	0.45	-85	10	SLE R	0.48
-84	10	SLE R	0.48	-83	10	SLE R	0.46	-82	10	SLE R	0.42	-81	10	SLE R	0.38
-80	10	SLE R	0.36	-79	10	SLE R	0.36	-78	10	SLE R	0.38	-77	10	SLE R	0.44
-76	10	SLE R	0.53	-75	10	SLE R	0.63	-74	10	SLE R	0.74	-73	10	SLE R	0.69
-72	10	SLE R	0.57	-71	10	SLE R	0.48	-70	10	SLE R	0.42	-69	10	SLE R	0.39
-68	10	SLE R	0.39	-67	10	SLE R	0.42	-66	10	SLE R	0.47	-65	10	SLE R	0.52
-64	10	SLE R	0.54	-63	10	SLE R	0.50	-62	10	SLE R	0.47	-61	10	SLE R	0.45
-60	10	SLE R	0.45	-59	10	SLE R	0.47	-58	10	SLE R	0.50	-57	10	SLE R	0.55
-56	10	SLE R	0.55	-55	10	SLE R	0.50	-54	10	SLE R	0.47	-53	10	SLE R	0.45
-52	10	SLE R	0.45	-51	10	SLE R	0.47	-50	10	SLE R	0.50	-49	10	SLE R	0.54
-48	10	SLE R	0.52	-47	10	SLE R	0.47	-46	10	SLE R	0.42	-45	10	SLE R	0.39
-44	10	SLE R	0.39	-43	10	SLE R	0.42	-42	10	SLE R	0.48	-41	10	SLE R	0.57
-40	10	SLE R	0.69	-39	10	SLE R	0.81	-38	10	SLE R	0.71	-37	10	SLE R	0.59
-36	10	SLE R	0.49	-35	10	SLE R	0.43	-34	10	SLE R	0.40	-33	10	SLE R	0.40
-32	10	SLE R	0.43	-31	10	SLE R	0.48	-30	10	SLE R	0.54	-29	10	SLE R	0.57
-28	10	SLE R	0.56	-27	10	SLE R	0.52	-26	10	SLE R	0.48	-25	10	SLE R	0.46
-24	10	SLE R	0.46	-23	10	SLE R	0.48	-22	10	SLE R	0.52	-21	10	SLE R	0.56
-20	10	SLE R	0.59	-19	10	SLE R	0.56	-18	10	SLE R	0.52	-17	10	SLE R	0.48
-16	10	SLE R	0.46	-15	10	SLE R	0.46	-14	10	SLE R	0.48	-13	10	SLE R	0.52
-12	10	SLE R	0.56	-11	10	SLE R	0.57	-10	10	SLE R	0.54	-9	10	SLE R	0.48
-8	10	SLE R	0.43	-7	10	SLE R	0.40	-6	10	SLE R	0.40	-5	10	SLE R	0.43
-4	10	SLE R	0.49	-3	10	SLE R	0.59	-2	10	SLE R	0.71	-1	10	SLE R	0.81

1	10	SLE R	0.80	2	10	SLE R	0.56	3	10	SLE R	0.57	4	10	SLE R	0.56
5	10	SLE R	0.80	6	10	SLE R	0.73	7	10	SLE R	0.43	8	10	SLE R	0.45
9	10	SLE R	0.43	10	10	SLE R	0.73	11	10	SLE R	0.73	12	10	SLE R	0.43
13	10	SLE R	0.45	14	10	SLE R	0.43	15	10	SLE R	0.73	16	10	SLE R	0.89
17	10	SLE R	0.62	18	10	SLE R	0.64	19	10	SLE R	0.62	20	10	SLE R	0.89

Verifiche e armature travi

Simbologia

Δ_{sm} = Distanza media tra le fessure
Φ_{eq} = Diametro equivalente delle barre
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
σ_c = Tensione nel calcestruzzo
σ_f inf = Tensione nel ferro - inferiore
σ_f sup = Tensione nel ferro - superiore
σ_s = Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
AfE I = Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfE S = Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE St. = Area di ferro effettiva della staffatura (d'anima per travi a T o L)
AfEP I = Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, inferiore
AfEP S = Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, superiore
B = Base
CC = Combinazione delle condizioni di carico elementari
c = momento fittizio in campata
a = momento fittizio agli appoggi
T = momento traslato per taglio
e = eccentricità aggiuntiva in caso di compressione o pressoflessione
TG = taglio da gerarchia delle resistenze
TGND = taglio non dissipativo limitante la gerarchia
TG (Li) = taglio da gerarchia delle resistenze, limite inferiore
TG (Ls) = taglio da gerarchia delle resistenze, limite superiore
Caso = Caso di verifica
Cf inf = Copriferro inferiore
Cf sup = Copriferro superiore
Cls = Tipo di calcestruzzo
El = Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
H = Altezza
K_2 = Coefficiente per distribuzione deformazioni
Lung. = Lunghezza del tratto di progettazione
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
My = Momento flettente intorno all'asse Y
Sez. = Numero della sezione
Sic. = Sicurezza
Staff. = Staffatura adottata
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tipo = Tipologia
R = Rettangolare
Tp = Tipo di acciaio
VRcd = Taglio ultimo lato calcestruzzo
VRsd = Taglio ultimo lato armatura
Vrdu = Taglio ultimo resistente
Vsdu = Taglio agente nella direzione del momento ultimo
Wk = Ampiezza caratteristica delle fessure
X = Coordinata progressiva rispetto al nodo iniziale
X0 = Coordinata progressiva (dal nodo iniziale) dell'inizio del tratto
X1 = Coordinata progressiva (dal nodo iniziale) della fine del tratto
Xg = Coordinata progressiva (dal primo nodo) in cui viene effettuato il progetto/verifica
bw = Larghezza membratura resistente al taglio
c = Ricoprimento dell'armatura
ctgθ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s = Distanza massima tra le barre

Travata n. 101

Nodi: 101 102 103 104 105

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>
3	R	40.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	669.00	6.03	6.03	6.03	6.03	-3857.70	-5525.97	1.432
6.89	1	SLV	1	20.00	7.16	6.03	7.16	6.03	-6037.27	-6427.06	1.065
7.29	1	SLV	2	640.00	7.16	6.03	7.16	6.03	-5518.28	-6427.06	1.165

13.49	1	SLV	2	20.00	7.16	6.03	7.16	6.03	-5243.99	-6427.06	1.226
13.89	1	SLV	3	640.00	7.16	6.03	7.16	6.03	-5243.99	-6427.06	1.226
20.09	1	SLV	3	20.00	7.16	6.03	7.16	6.03	-5518.28	-6427.06	1.165
20.49	1	SLV	4	689.00	7.16	6.03	7.16	6.03	-6037.27	-6427.06	1.065
26.98	1	SLV	4	40.00	6.03	6.03	6.03	6.03	-3857.70	-5525.97	1.432

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	669.00	6.03	6.03	188.43	-24.87	142.43	4.45
0.40	12	SLE Q	1	669.00	6.03	6.03	-209.01	157.99	-27.59	4.93
6.89	10	SLE R	1	20.00	7.16	6.03	-2468.36	1582.85	-338.16	54.56
6.89	12	SLE Q	1	20.00	7.16	6.03	-2381.86	1527.39	-326.31	52.65
7.29	10	SLE R	2	640.00	7.16	6.03	-1500.94	962.49	-205.63	33.18
7.29	12	SLE Q	2	640.00	7.16	6.03	-1487.43	953.83	-203.78	32.88
13.49	10	SLE R	2	20.00	7.16	6.03	-1217.72	780.87	-166.83	26.92
13.49	12	SLE Q	2	20.00	7.16	6.03	-1226.48	786.49	-168.03	27.11
13.89	10	SLE R	3	640.00	7.16	6.03	-1217.72	780.87	-166.83	26.92
13.89	12	SLE Q	3	640.00	7.16	6.03	-1226.48	786.49	-168.03	27.11
20.09	10	SLE R	3	20.00	7.16	6.03	-1500.93	962.49	-205.63	33.18
20.09	12	SLE Q	3	20.00	7.16	6.03	-1487.43	953.83	-203.78	32.88
20.49	10	SLE R	4	689.00	7.16	6.03	-2468.36	1582.85	-338.16	54.56
20.49	12	SLE Q	4	689.00	7.16	6.03	-2381.86	1527.39	-326.31	52.65
26.98	10	SLE R	4	40.00	6.03	6.03	188.43	-24.87	142.43	4.45
26.98	12	SLE Q	4	40.00	6.03	6.03	-209.02	157.99	-27.59	4.93

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>
13	0.40	12	SLE Q	1	3	669.00	-209.01	42.00	149.00	0.50	16.00	161.90	6.03	293.69	157.99	0.05	0.01
15	0.40	11	SLE F	1	3	669.00	-183.21	42.00	149.00	0.50	16.00	161.90	6.03	293.69	138.48	0.04	0.01
27	6.89	12	SLE Q	1	3	20.00	-2381.86	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1527.39	0.48	0.12
28	6.89	11	SLE F	1	3	20.00	-2400.97	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1539.64	0.45	0.11
39	7.29	12	SLE Q	2	3	640.00	-1487.43	42.50	99.33	0.50	15.20	145.77	7.16	286.39	953.83	0.28	0.07
40	7.29	11	SLE F	2	3	640.00	-1490.44	42.50	99.33	0.50	15.20	145.77	7.16	286.39	955.75	0.28	0.07
53	13.49	12	SLE Q	2	3	20.00	-1226.48	42.50	99.33	0.50	15.20	145.77	7.16	286.39	786.49	0.23	0.06
54	13.49	11	SLE F	2	3	20.00	-1224.53	42.50	99.33	0.50	15.20	145.77	7.16	286.39	785.24	0.23	0.06
67	13.89	12	SLE Q	3	3	640.00	-1226.48	42.50	99.33	0.50	15.20	145.77	7.16	286.39	786.49	0.23	0.06
68	13.89	11	SLE F	3	3	640.00	-1224.53	42.50	99.33	0.50	15.20	145.77	7.16	286.39	785.24	0.23	0.06
79	20.09	12	SLE Q	3	3	20.00	-1487.43	42.50	99.33	0.50	15.20	145.77	7.16	286.39	953.83	0.28	0.07
80	20.09	11	SLE F	3	3	20.00	-1490.43	42.50	99.33	0.50	15.20	145.77	7.16	286.39	955.75	0.28	0.07
91	20.49	12	SLE Q	4	3	689.00	-2381.86	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1527.39	0.48	0.12
92	20.49	11	SLE F	4	3	689.00	-2400.97	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1539.64	0.45	0.11
106	26.98	12	SLE Q	4	3	40.00	-209.02	42.00	149.00	0.50	16.00	161.90	6.03	293.69	157.99	0.05	0.01
108	26.98	11	SLE F	4	3	40.00	-183.21	42.00	149.00	0.50	16.00	161.90	6.03	293.69	138.48	0.04	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.40	3236.43	2.08	30620.40	30620.40	30620.40	9.461
TG	0.70	6.59	5.89	ø8/15 2 br.	6.70	0.40	3262.84	2.50	14751.80	27003.60	14751.80	4.521
TG	6.59	6.89	0.30	ø8/ 6 2 br.	16.76	0.40	3388.84	2.08	30620.40	30620.40	30620.40	9.036
TG	7.29	7.59	0.30	ø8/ 6 2 br.	16.76	0.40	3423.03	2.08	30620.40	30620.40	30620.40	8.945
TG	7.59	13.19	5.60	ø8/15 2 br.	6.70	0.40	3297.03	2.50	14751.80	27003.60	14751.80	4.474
TG	13.19	13.49	0.30	ø8/ 6 2 br.	16.76	0.40	3423.03	2.08	30620.40	30620.40	30620.40	8.945
TG	13.89	14.19	0.30	ø8/ 6 2 br.	16.76	0.40	3423.03	2.08	30620.40	30620.40	30620.40	8.945
TG	14.19	19.79	5.60	ø8/15 2 br.	6.70	0.40	3297.03	2.50	14751.80	27003.60	14751.80	4.474
TG	19.79	20.09	0.30	ø8/ 6 2 br.	16.76	0.40	3423.03	2.08	30620.40	30620.40	30620.40	8.945
TG	20.49	20.79	0.30	ø8/ 6 2 br.	16.76	0.40	3388.84	2.08	30620.40	30620.40	30620.40	9.036
TG	20.79	26.68	5.89	ø8/15 2 br.	6.70	0.40	3262.84	2.50	14751.80	27003.60	14751.80	4.521
TG	26.68	26.98	0.30	ø8/ 6 2 br.	16.76	0.40	3236.43	2.08	30620.40	30620.40	30620.40	9.461

Travata n. 102

Nodi: 106 107 108 109 110

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>
3	R	40.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	40.00	6.03	6.03	6.03	6.03	4555.12	5525.97	1.213
6.89	1	SLV	1	689.00	7.16	6.03	7.16	6.03	-5871.40	-6427.06	1.095
7.29	1	SLV	2	20.00	7.16	6.03	7.16	6.03	-5211.84	-6427.06	1.233
13.49	1	SLV	2	640.00	6.03	6.03	6.03	6.03	-4913.58	-5525.97	1.125
13.89	1	SLV	3	20.00	6.03	6.03	6.03	6.03	-4913.58	-5525.97	1.125
20.09	1	SLV	3	640.00	7.16	6.03	7.16	6.03	-5211.84	-6427.06	1.233
20.49	1	SLV	4	20.00	7.16	6.03	7.16	6.03	-5871.40	-6427.06	1.095
26.98	1	SLV	4	669.00	6.03	6.03	6.03	6.03	4555.11	5525.97	1.213

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	40.00	6.03	6.03	847.54	-111.88	640.63	20.00
0.40	12	SLE Q	1	40.00	6.03	6.03	684.33	-90.33	517.26	16.15
6.89	10	SLE R	1	689.00	7.16	6.03	-2277.99	1460.78	-312.08	50.35
6.89	12	SLE Q	1	689.00	7.16	6.03	-2163.45	1387.33	-296.39	47.82
7.29	10	SLE R	2	20.00	7.16	6.03	-1137.86	729.66	-155.89	25.15
7.29	12	SLE Q	2	20.00	7.16	6.03	-1118.88	717.49	-153.29	24.73
13.49	10	SLE R	2	640.00	6.03	6.03	-824.60	623.29	-108.85	19.46
13.49	12	SLE Q	2	640.00	6.03	6.03	-836.68	632.42	-110.44	19.74
13.89	10	SLE R	3	20.00	6.03	6.03	-824.60	623.29	-108.85	19.46
13.89	12	SLE Q	3	20.00	6.03	6.03	-836.68	632.42	-110.44	19.74
20.09	10	SLE R	3	640.00	7.16	6.03	-1137.86	729.66	-155.89	25.15
20.09	12	SLE Q	3	640.00	7.16	6.03	-1118.88	717.49	-153.29	24.73
20.49	10	SLE R	4	20.00	7.16	6.03	-2277.99	1460.78	-312.08	50.35
20.49	12	SLE Q	4	20.00	7.16	6.03	-2163.45	1387.33	-296.39	47.82
26.98	10	SLE R	4	669.00	6.03	6.03	847.53	-111.87	640.63	20.00
26.98	12	SLE Q	4	669.00	6.03	6.03	684.32	-90.33	517.26	16.15

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.40	12	SLE Q	1	3	40.00	684.33	42.00	149.00	0.50	16.00	161.90	6.03	293.69	517.26	0.15	0.04
12	0.40	11	SLE F	1	3	40.00	720.61	42.00	149.00	0.50	16.00	161.90	6.03	293.69	544.69	0.16	0.04
23	6.89	12	SLE Q	1	3	689.00	-2163.45	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1387.33	0.41	0.10
24	6.89	11	SLE F	1	3	689.00	-2188.92	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1403.66	0.41	0.10
35	7.29	12	SLE Q	2	3	20.00	-1118.88	42.50	99.33	0.50	15.20	145.77	7.16	286.39	717.49	0.21	0.05
36	7.29	11	SLE F	2	3	20.00	-1123.08	42.50	99.33	0.50	15.20	145.77	7.16	286.39	720.19	0.21	0.05
47	13.49	12	SLE Q	2	3	640.00	-836.68	42.00	149.00	0.50	16.00	161.90	6.03	293.69	632.42	0.18	0.05
48	13.49	11	SLE F	2	3	640.00	-834.01	42.00	149.00	0.50	16.00	161.90	6.03	293.69	630.40	0.18	0.05
59	13.89	12	SLE Q	3	3	20.00	-836.68	42.00	149.00	0.50	16.00	161.90	6.03	293.69	632.42	0.18	0.05
60	13.89	11	SLE F	3	3	20.00	-834.01	42.00	149.00	0.50	16.00	161.90	6.03	293.69	630.40	0.18	0.05
71	20.09	12	SLE Q	3	3	640.00	-1118.88	42.50	99.33	0.50	15.20	145.77	7.16	286.39	717.49	0.21	0.05
72	20.09	11	SLE F	3	3	640.00	-1123.08	42.50	99.33	0.50	15.20	145.77	7.16	286.39	720.19	0.21	0.05
83	20.49	12	SLE Q	4	3	20.00	-2163.45	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1387.33	0.41	0.10
84	20.49	11	SLE F	4	3	20.00	-2188.92	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1403.66	0.41	0.10
95	26.98	12	SLE Q	4	3	669.00	684.32	42.00	149.00	0.50	16.00	161.90	6.03	293.69	517.26	0.15	0.04
96	26.98	11	SLE F	4	3	669.00	720.61	42.00	149.00	0.50	16.00	161.90	6.03	293.69	544.69	0.16	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.40	2847.03	2.08	30620.40	30620.40	30620.40	10.755
TG	0.70	6.59	5.89	ø8/15 2 br.	6.70	0.40	2909.44	2.50	14751.80	27003.60	14751.80	5.070
TG	6.59	6.89	0.30	ø8/ 6 2 br.	16.76	0.40	2999.44	2.08	30620.40	30620.40	30620.40	10.209
TG	7.29	7.59	0.30	ø8/ 6 2 br.	16.76	0.40	3050.70	2.08	30620.40	30620.40	30620.40	10.037
TG	7.59	13.19	5.60	ø8/15 2 br.	6.70	0.40	2960.70	2.50	14751.80	27003.60	14751.80	4.983
TG	13.19	13.49	0.30	ø8/ 6 2 br.	16.76	0.40	2891.16	2.08	30620.40	30620.40	30620.40	10.591
TG	13.89	14.19	0.30	ø8/ 6 2 br.	16.76	0.40	2891.16	2.08	30620.40	30620.40	30620.40	10.591
TG	14.19	19.79	5.60	ø8/15 2 br.	6.70	0.40	2960.70	2.50	14751.80	27003.60	14751.80	4.983
TG	19.79	20.09	0.30	ø8/ 6 2 br.	16.76	0.40	3050.70	2.08	30620.40	30620.40	30620.40	10.037
TG	20.49	20.79	0.30	ø8/ 6 2 br.	16.76	0.40	2999.44	2.08	30620.40	30620.40	30620.40	10.209
TG	20.79	26.68	5.89	ø8/15 2 br.	6.70	0.40	2909.44	2.50	14751.80	27003.60	14751.80	5.070
TG	26.68	26.98	0.30	ø8/ 6 2 br.	16.76	0.40	2847.03	2.08	30620.40	30620.40	30620.40	10.755

Travata n. 103

Nodi: 111 112 113 114 115

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>
3	R	40.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	669.00	6.03	6.03	6.03	6.03	4678.48	5525.97	1.181
6.89	1	SLV	1	20.00	7.16	6.03	7.16	6.03	-5966.11	-6427.06	1.077
7.29	1	SLV	2	640.00	7.16	6.03	7.16	6.03	-5272.44	-6427.06	1.219
13.49	1	SLV	2	20.00	6.03	6.03	6.03	6.03	-4961.87	-5525.97	1.114
13.89	1	SLV	3	640.00	6.03	6.03	6.03	6.03	-4961.87	-5525.97	1.114
20.09	1	SLV	3	20.00	7.16	6.03	7.16	6.03	-5272.43	-6427.06	1.219
20.49	1	SLV	4	689.00	7.16	6.03	7.16	6.03	-5966.11	-6427.06	1.077
26.98	1	SLV	4	40.00	6.03	6.03	6.03	6.03	4678.48	5525.97	1.181

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	669.00	6.03	6.03	912.18	-120.41	689.49	21.53
0.40	12	SLE Q	1	669.00	6.03	6.03	747.13	-98.62	564.73	17.63
6.89	10	SLE R	1	20.00	7.16	6.03	-2319.33	1487.29	-317.75	51.27

6.89	12	SLE Q	1	20.00	7.16	6.03	-2203.81	1413.21	-301.92	48.71
7.29	10	SLE R	2	640.00	7.16	6.03	-1145.28	734.42	-156.90	25.32
7.29	12	SLE Q	2	640.00	7.16	6.03	-1125.96	722.03	-154.26	24.89
13.49	10	SLE R	2	20.00	6.03	6.03	-820.05	619.86	-108.25	19.35
13.49	12	SLE Q	2	20.00	6.03	6.03	-832.33	629.14	-109.87	19.64
13.89	10	SLE R	3	640.00	6.03	6.03	-820.05	619.86	-108.25	19.35
13.89	12	SLE Q	3	640.00	6.03	6.03	-832.33	629.14	-109.87	19.64
20.09	10	SLE R	3	20.00	7.16	6.03	-1145.28	734.42	-156.90	25.32
20.09	12	SLE Q	3	20.00	7.16	6.03	-1125.96	722.03	-154.26	24.89
20.49	10	SLE R	4	689.00	7.16	6.03	-2319.33	1487.29	-317.75	51.27
20.49	12	SLE Q	4	689.00	7.16	6.03	-2203.81	1413.21	-301.92	48.71
26.98	10	SLE R	4	40.00	6.03	6.03	912.17	-120.41	689.49	21.53
26.98	12	SLE Q	4	40.00	6.03	6.03	747.12	-98.62	564.73	17.63

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.40	12	SLE Q	1	3	669.00	747.13	42.00	149.00	0.50	16.00	161.90	6.03	293.69	564.73	0.16	0.05
12	0.40	11	SLE F	1	3	669.00	783.83	42.00	149.00	0.50	16.00	161.90	6.03	293.69	592.47	0.17	0.05
23	6.89	12	SLE Q	1	3	20.00	-2203.81	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1413.21	0.42	0.10
24	6.89	11	SLE F	1	3	20.00	-2229.51	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1429.69	0.42	0.10
35	7.29	12	SLE Q	2	3	640.00	-1125.96	42.50	99.33	0.50	15.20	145.77	7.16	286.39	722.03	0.21	0.05
36	7.29	11	SLE F	2	3	640.00	-1130.24	42.50	99.33	0.50	15.20	145.77	7.16	286.39	724.78	0.21	0.05
47	13.49	12	SLE Q	2	3	20.00	-832.33	42.00	149.00	0.50	16.00	161.90	6.03	293.69	629.14	0.18	0.05
48	13.49	11	SLE F	2	3	20.00	-829.62	42.00	149.00	0.50	16.00	161.90	6.03	293.69	627.08	0.18	0.05
59	13.89	12	SLE Q	3	3	640.00	-832.33	42.00	149.00	0.50	16.00	161.90	6.03	293.69	629.14	0.18	0.05
60	13.89	11	SLE F	3	3	640.00	-829.62	42.00	149.00	0.50	16.00	161.90	6.03	293.69	627.08	0.18	0.05
71	20.09	12	SLE Q	3	3	20.00	-1125.96	42.50	99.33	0.50	15.20	145.77	7.16	286.39	722.03	0.21	0.05
72	20.09	11	SLE F	3	3	20.00	-1130.24	42.50	99.33	0.50	15.20	145.77	7.16	286.39	724.77	0.21	0.05
83	20.49	12	SLE Q	4	3	689.00	-2203.81	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1413.21	0.42	0.10
84	20.49	11	SLE F	4	3	689.00	-2229.51	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1429.69	0.42	0.10
95	26.98	12	SLE Q	4	3	40.00	747.12	42.00	149.00	0.50	16.00	161.90	6.03	293.69	564.73	0.16	0.05
96	26.98	11	SLE F	4	3	40.00	783.83	42.00	149.00	0.50	16.00	161.90	6.03	293.69	592.47	0.17	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.40	2847.03	2.08	30620.40	30620.40	30620.40	10.755
TG	0.70	6.59	5.89	ø8/15 2 br.	6.70	0.40	2909.44	2.50	14751.80	27003.60	14751.80	5.070
TG	6.59	6.89	0.30	ø8/ 6 2 br.	16.76	0.40	2999.44	2.08	30620.40	30620.40	30620.40	10.209
TG	7.29	7.59	0.30	ø8/ 6 2 br.	16.76	0.40	3050.70	2.08	30620.40	30620.40	30620.40	10.037
TG	7.59	13.19	5.60	ø8/15 2 br.	6.70	0.40	2960.70	2.50	14751.80	27003.60	14751.80	4.983
TG	13.19	13.49	0.30	ø8/ 6 2 br.	16.76	0.40	2891.16	2.08	30620.40	30620.40	30620.40	10.591
TG	13.89	14.19	0.30	ø8/ 6 2 br.	16.76	0.40	2891.16	2.08	30620.40	30620.40	30620.40	10.591
TG	14.19	19.79	5.60	ø8/15 2 br.	6.70	0.40	2960.70	2.50	14751.80	27003.60	14751.80	4.983
TG	19.79	20.09	0.30	ø8/ 6 2 br.	16.76	0.40	3050.70	2.08	30620.40	30620.40	30620.40	10.037
TG	20.49	20.79	0.30	ø8/ 6 2 br.	16.76	0.40	2999.44	2.08	30620.40	30620.40	30620.40	10.209
TG	20.79	26.68	5.89	ø8/15 2 br.	6.70	0.40	2909.44	2.50	14751.80	27003.60	14751.80	5.070
TG	26.68	26.98	0.30	ø8/ 6 2 br.	16.76	0.40	2847.03	2.08	30620.40	30620.40	30620.40	10.755

Travata n. 104

Nodi: 116 117 118 119 120

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>
3	R	40.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	40.00	10.05	8.04	10.05	8.04	-8300.58	-8711.83	1.050
3.15	9	SLU	1	314.61	8.04	8.04	8.04	8.04	6259.52	7124.76	1.138
6.89	9	SLU	1	689.00	14.07	8.04	14.07	8.04	-11743.50	-11840.80	1.008
7.29	1	SLV	2	20.00	14.07	8.04	14.07	8.04	-10389.60	-11840.80	1.140
10.39	9	SLU	2	330.00	8.04	8.04	8.04	8.04	4998.49	7124.76	1.425
13.49	1	SLV	2	640.00	12.06	8.04	12.06	8.04	-10011.20	-10286.00	1.027
13.89	1	SLV	3	20.00	12.06	8.04	12.06	8.04	-10011.20	-10286.00	1.027
16.68	9	SLU	3	299.00	8.04	8.04	8.04	8.04	4998.49	7124.76	1.425
20.09	1	SLV	3	640.00	16.09	8.04	16.09	8.04	-10389.60	-13372.90	1.287
20.49	9	SLU	4	20.00	16.09	8.04	16.09	8.04	-11743.50	-13372.90	1.139
23.73	9	SLU	4	344.50	8.04	8.04	8.04	8.04	6259.52	7124.76	1.138
26.98	1	SLV	4	669.00	10.05	8.04	10.05	8.04	-8300.59	-8711.83	1.050

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	40.00	10.05	8.04	-4456.68	2070.24	-598.25	84.36
0.40	12	SLE Q	1	40.00	10.05	8.04	-4579.72	2127.40	-614.77	86.69
3.15	10	SLE R	1	314.61	8.04	8.04	4273.80	-559.92	2458.05	87.63
3.15	12	SLE Q	1	314.61	8.04	8.04	4244.94	-556.14	2441.45	87.04
6.89	10	SLE R	1	689.00	14.07	8.04	-8045.19	2710.59	-1094.96	136.42
6.89	12	SLE Q	1	689.00	14.07	8.04	-7956.28	2680.63	-1082.86	134.92

7.29	10	SLE R	2	20.00	14.07	8.04	-6277.98	2115.18	-854.44	106.46
7.29	12	SLE Q	2	20.00	14.07	8.04	-6261.73	2109.70	-852.23	106.18
10.39	10	SLE R	2	330.00	8.04	8.04	3402.50	-445.77	1956.92	69.76
10.39	12	SLE Q	2	330.00	8.04	8.04	3405.59	-446.17	1958.70	69.83
13.49	10	SLE R	2	640.00	12.06	8.04	-5892.78	2299.75	-799.17	104.93
13.49	12	SLE Q	2	640.00	12.06	8.04	-5903.14	2303.80	-800.57	105.11
13.89	10	SLE R	3	20.00	12.06	8.04	-5892.78	2299.75	-799.17	104.93
13.89	12	SLE Q	3	20.00	12.06	8.04	-5903.13	2303.79	-800.57	105.11
16.68	10	SLE R	3	299.00	8.04	8.04	3402.50	-445.77	1956.92	69.76
16.68	12	SLE Q	3	299.00	8.04	8.04	3405.59	-446.17	1958.70	69.83
20.09	10	SLE R	3	640.00	16.09	8.04	-6277.98	1862.74	-854.55	102.26
20.09	12	SLE Q	3	640.00	16.09	8.04	-6261.73	1857.92	-852.34	101.99
20.49	10	SLE R	4	20.00	16.09	8.04	-8045.19	2387.09	-1095.10	131.04
20.49	12	SLE Q	4	20.00	16.09	8.04	-7956.27	2360.71	-1083.00	129.59
23.73	10	SLE R	4	344.50	8.04	8.04	4273.73	-559.91	2458.01	87.63
23.73	12	SLE Q	4	344.50	8.04	8.04	4244.94	-556.14	2441.45	87.04
26.98	10	SLE R	4	669.00	10.05	8.04	-4456.68	2070.24	-598.26	84.36
26.98	12	SLE Q	4	669.00	10.05	8.04	-4579.73	2127.40	-614.77	86.69

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>
13	0.40	12	SLE Q	1	3	40.00	-4579.72	42.00	74.50	0.50	16.00	127.54	10.05	273.55	2127.40	0.84	0.18
14	0.40	11	SLE F	1	3	40.00	-4552.50	42.00	74.50	0.50	16.00	127.54	10.05	273.55	2114.75	0.74	0.16
25	3.15	12	SLE Q	1	3	314.61	4244.94	42.00	99.33	0.50	16.00	140.47	8.04	283.86	2441.45	0.95	0.23
26	3.15	11	SLE F	1	3	314.61	4251.29	42.00	99.33	0.50	16.00	140.47	8.04	283.86	2445.10	0.83	0.20
37	6.89	12	SLE Q	1	3	689.00	-7956.28	42.00	49.67	0.50	16.00	113.17	14.07	256.61	2680.63	1.16	0.22
38	6.89	11	SLE F	1	3	689.00	-7975.90	42.00	49.67	0.50	16.00	113.17	14.07	256.61	2687.24	1.09	0.21
49	7.29	12	SLE Q	2	3	20.00	-6261.73	42.00	49.67	0.50	16.00	113.17	14.07	256.61	2109.70	0.88	0.17
50	7.29	11	SLE F	2	3	20.00	-6265.34	42.00	49.67	0.50	16.00	113.17	14.07	256.61	2110.92	0.82	0.16
61	10.39	12	SLE Q	2	3	330.00	3405.59	42.00	99.33	0.50	16.00	140.47	8.04	283.86	1958.70	0.71	0.17
62	10.39	11	SLE F	2	3	330.00	3404.91	42.00	99.33	0.50	16.00	140.47	8.04	283.86	1958.31	0.59	0.14
73	13.49	12	SLE Q	2	3	640.00	-5903.14	42.00	59.60	0.50	16.00	119.09	12.06	264.56	2303.80	0.96	0.19
74	13.49	11	SLE F	2	3	640.00	-5900.83	42.00	59.60	0.50	16.00	119.09	12.06	264.56	2302.90	0.88	0.18
85	13.89	12	SLE Q	3	3	20.00	-5903.13	42.00	59.60	0.50	16.00	119.09	12.06	264.56	2303.79	0.96	0.19
86	13.89	11	SLE F	3	3	20.00	-5900.83	42.00	59.60	0.50	16.00	119.09	12.06	264.56	2302.89	0.88	0.18
97	16.68	12	SLE Q	3	3	299.00	3405.59	42.00	99.33	0.50	16.00	140.47	8.04	283.86	1958.70	0.71	0.17
98	16.68	11	SLE F	3	3	299.00	3404.91	42.00	99.33	0.50	16.00	140.47	8.04	283.86	1958.31	0.59	0.14
109	20.09	12	SLE Q	3	3	640.00	-6261.73	42.00	42.57	0.50	16.00	108.81	16.09	249.47	1857.92	0.78	0.14
110	20.09	11	SLE F	3	3	640.00	-6265.34	42.00	42.57	0.50	16.00	108.81	16.09	249.47	1858.99	0.72	0.13
121	20.49	12	SLE Q	4	3	20.00	-7956.27	42.00	42.57	0.50	16.00	108.81	16.09	249.47	2360.71	1.02	0.19
122	20.49	11	SLE F	4	3	20.00	-7975.90	42.00	42.57	0.50	16.00	108.81	16.09	249.47	2366.53	0.96	0.18
133	23.73	12	SLE Q	4	3	344.50	4244.94	42.00	99.33	0.50	16.00	140.47	8.04	283.86	2441.45	0.95	0.23
134	23.73	11	SLE F	4	3	344.50	4251.29	42.00	99.33	0.50	16.00	140.47	8.04	283.86	2445.10	0.83	0.20
147	26.98	12	SLE Q	4	3	669.00	-4579.73	42.00	74.50	0.50	16.00	127.54	10.05	273.55	2127.40	0.84	0.18
148	26.98	11	SLE F	4	3	669.00	-4552.50	42.00	74.50	0.50	16.00	127.54	10.05	273.55	2114.75	0.74	0.16

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 TGND	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.40	8672.05	2.08	30620.40	30620.40	30620.40	3.531
9 SLU	0.70	6.59	5.89	ø8/15 2 br.	6.70	0.40	9048.12	2.50	14751.80	27003.60	14751.80	1.630
9 SLU	6.59	6.89	0.30	ø8/ 6 2 br.	16.76	0.40	9889.63	2.08	30620.40	30620.40	30620.40	3.096
TG	7.29	7.59	0.30	ø8/ 6 2 br.	16.76	0.40	9285.49	2.08	30620.40	30620.40	30620.40	3.298
TG	7.59	13.19	5.60	ø8/15 2 br.	6.70	0.40	8712.48	2.50	14751.80	27003.60	14751.80	1.693
TG	13.19	13.49	0.30	ø8/ 6 2 br.	16.76	0.40	9009.50	2.08	30620.40	30620.40	30620.40	3.399
TG	13.89	14.19	0.30	ø8/ 6 2 br.	16.76	0.40	9009.40	2.08	30620.40	30620.40	30620.40	3.399
7 TGND	14.19	19.79	5.60	ø8/15 2 br.	6.70	0.40	8859.60	2.50	14751.80	27003.60	14751.80	1.665
7 TGND	19.79	20.09	0.30	ø8/ 6 2 br.	16.76	0.40	9432.61	2.08	30620.40	30620.40	30620.40	3.246
9 SLU	20.49	20.79	0.30	ø8/ 6 2 br.	16.76	0.40	9889.63	2.08	30620.40	30620.40	30620.40	3.096
TG	20.79	26.68	5.89	ø8/15 2 br.	6.70	0.40	9098.92	2.50	14751.80	27003.60	14751.80	1.621
7 TGND	26.68	26.98	0.30	ø8/ 6 2 br.	16.76	0.40	8672.05	2.08	30620.40	30620.40	30620.40	3.531

Travata n. 105

Nodi: 101 106 111 116

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	50.00	9.42	7.16	9.42	7.16	-7948.02	-8408.89	1.058
2.13	9	SLU	1	213.35	8.29	7.16	8.29	7.16	6143.09	6608.13	1.076
4.57	5	SLV	1	457.00	16.59	7.16	16.59	7.16	-11145.40	-14005.70	1.257
5.07	9	SLU	2	0.00	16.59	7.16	16.59	7.16	-13461.60	-14005.70	1.040
7.38	9	SLU	2	231.02	8.29	14.33	8.29	14.33	7219.49	12268.00	1.699
10.07	9	SLU	2	500.00	17.72	7.16	17.72	7.16	-14032.90	-14863.70	1.059
10.57	5	SLV	3	50.00	17.72	7.16	17.72	7.16	-11694.40	-14863.70	1.271
12.67	9	SLU	3	260.00	9.42	7.16	9.42	7.16	6550.38	6610.35	1.009
14.77	5	SLV	3	470.00	9.42	7.16	9.42	7.16	-8157.01	-8408.89	1.031

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	50.00	9.42	7.16	-3910.50	1909.48	-436.50	68.20
0.50	12	SLE Q	1	50.00	9.42	7.16	-3114.85	1520.97	-347.69	54.32
2.13	10	SLE R	1	213.35	8.29	7.16	4322.86	-440.95	2747.82	82.54
2.13	12	SLE Q	1	213.35	8.29	7.16	3678.35	-375.21	2338.13	70.24
4.57	10	SLE R	1	457.00	16.59	7.16	-7315.50	2084.68	-850.11	105.59
4.57	12	SLE Q	1	457.00	16.59	7.16	-6358.15	1811.87	-738.86	91.77
5.07	10	SLE R	2	0.00	16.59	7.16	-9482.02	2702.08	-1101.87	136.86
5.07	12	SLE Q	2	0.00	16.59	7.16	-7993.76	2277.97	-928.92	115.38
7.38	10	SLE R	2	231.02	8.29	14.33	5078.28	-572.61	1664.06	75.45
7.38	12	SLE Q	2	231.02	8.29	14.33	4284.58	-483.12	1403.98	63.66
10.07	10	SLE R	2	500.00	17.72	7.16	-9859.43	2639.18	-1146.06	139.49
10.07	12	SLE Q	2	500.00	17.72	7.16	-8359.67	2237.72	-971.73	118.27
10.57	10	SLE R	3	50.00	17.72	7.16	-7853.16	2102.14	-912.85	111.11
10.57	12	SLE Q	3	50.00	17.72	7.16	-6835.65	1829.77	-794.58	96.71
12.67	10	SLE R	3	260.00	9.42	7.16	4606.82	-455.95	2931.76	86.86
12.67	12	SLE Q	3	260.00	9.42	7.16	3924.16	-388.39	2497.32	73.99
14.77	10	SLE R	3	470.00	9.42	7.16	-4106.31	2005.09	-458.36	71.62
14.77	12	SLE Q	3	470.00	9.42	7.16	-3252.65	1588.26	-363.07	56.73

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>
12	0.50	12	SLE Q	1	4	50.00	-3114.85	41.50	131.33	0.50	17.65	149.40	9.42	354.64	1520.97	0.49	0.12
13	0.50	11	SLE F	1	4	50.00	-3312.10	41.50	131.33	0.50	17.65	149.40	9.42	354.64	1617.29	0.47	0.12
24	2.13	12	SLE Q	1	4	213.35	3678.35	41.33	196.00	0.50	17.54	173.40	7.16	370.57	2338.13	0.80	0.24
25	2.13	11	SLE F	1	4	213.35	3839.26	41.33	196.00	0.50	17.54	173.40	7.16	370.57	2440.42	0.71	0.21
38	4.57	12	SLE Q	1	4	457.00	-6358.15	40.67	78.80	0.50	18.86	117.72	16.59	320.11	1811.87	0.73	0.15
39	4.57	11	SLE F	1	4	457.00	-6599.46	40.67	78.80	0.50	18.86	117.72	16.59	320.11	1880.64	0.69	0.14
50	5.07	12	SLE Q	2	4	0.00	-7993.76	40.67	78.80	0.50	18.86	117.72	16.59	320.11	2277.97	0.96	0.19
51	5.07	11	SLE F	2	4	0.00	-8365.71	40.67	78.80	0.50	18.86	117.72	16.59	320.11	2383.96	0.94	0.19
62	7.38	12	SLE Q	2	4	231.02	4284.58	41.33	78.40	0.50	17.54	123.23	14.33	331.33	1403.98	0.51	0.11
63	7.38	11	SLE F	2	4	231.02	4483.21	41.33	78.40	0.50	17.54	123.23	14.33	331.33	1469.07	0.46	0.10
74	10.07	12	SLE Q	2	4	500.00	-8359.67	40.33	78.80	0.50	19.45	115.32	17.72	315.74	2237.72	0.95	0.19
75	10.07	11	SLE F	2	4	500.00	-8734.35	40.33	78.80	0.50	19.45	115.32	17.72	315.74	2338.02	0.93	0.18
86	10.57	12	SLE Q	3	4	50.00	-6835.65	40.33	78.80	0.50	19.45	115.32	17.72	315.74	1829.77	0.75	0.15
87	10.57	11	SLE F	3	4	50.00	-7092.00	40.33	78.80	0.50	19.45	115.32	17.72	315.74	1898.39	0.72	0.14
98	12.67	12	SLE Q	3	4	260.00	3924.16	41.33	196.00	0.50	17.54	173.70	7.16	371.80	2497.32	0.88	0.26
99	12.67	11	SLE F	3	4	260.00	4094.55	41.33	196.00	0.50	17.54	173.70	7.16	371.80	2605.75	0.77	0.23
111	14.77	12	SLE Q	3	4	470.00	-3252.65	40.00	197.00	0.50	20.00	155.26	9.42	354.64	1588.26	0.52	0.14
112	14.77	11	SLE F	3	4	470.00	-3464.42	40.00	197.00	0.50	20.00	155.26	9.42	354.64	1691.66	0.49	0.13

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	12036.10	2.37	35020.20	35020.20	35020.20	2.910
9 SLU	0.80	4.27	3.47	ø10/20 2 br.	7.85	0.50	12465.20	2.50	17287.30	33754.50	17287.30	1.387
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.50	14414.90	2.37	35020.20	35020.20	35020.20	2.429
9 SLU	5.07	5.37	0.30	ø8/ 6 2 br.	16.76	0.50	16133.30	2.37	35020.20	35020.20	35020.20	2.171
9 SLU	5.37	9.77	4.40	ø10/20 2 br.	7.85	0.50	14412.10	2.50	17287.30	33754.50	17287.30	1.200
9 SLU	9.77	10.07	0.30	ø8/ 6 2 br.	16.76	0.50	16361.80	2.37	35020.20	35020.20	35020.20	2.140
9 SLU	10.57	10.87	0.30	ø8/ 6 2 br.	16.76	0.50	14925.10	2.37	35020.20	35020.20	35020.20	2.346
9 SLU	10.87	14.47	3.60	ø10/20 2 br.	7.85	0.50	12975.40	2.50	17287.30	33754.50	17287.30	1.332
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.50	12370.80	2.37	35020.20	35020.20	35020.20	2.831

Travata n. 106

Nodi: 102 107 112 117

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>
2	R	60.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	50.00	15.71	13.70	15.71	13.70	-12121.10	-13560.70	1.119
2.20	9	SLU	1	219.97	15.71	13.70	15.71	13.70	11082.70	11974.40	1.080
4.57	9	SLU	1	457.00	31.42	18.85	31.42	18.85	-18938.10	-25683.70	1.356
5.07	9	SLU	2	0.00	31.42	18.85	31.42	18.85	-24489.50	-25683.70	1.049
7.27	9	SLU	2	220.50	15.71	25.13	15.71	25.13	13263.00	20874.80	1.574
10.07	9	SLU	2	500.00	32.55	18.85	32.55	18.85	-25430.20	-26525.80	1.043
10.57	9	SLU	3	50.00	32.55	18.85	32.55	18.85	-19965.60	-26525.80	1.329
12.67	9	SLU	3	260.00	15.71	13.70	15.71	13.70	11776.40	11974.40	1.017
14.77	5	SLV	3	470.00	15.71	13.70	15.71	13.70	-12549.50	-13560.70	1.081

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>

0.50	10	SLE R	1	50.00	15.71	13.70	-7273.75	2167.72	-632.92	88.87
0.50	12	SLE Q	1	50.00	15.71	13.70	-5809.29	1731.29	-505.49	70.98
2.20	10	SLE R	1	219.97	15.71	13.70	7786.38	-644.24	2648.55	97.83
2.20	12	SLE Q	1	219.97	15.71	13.70	6541.66	-541.25	2225.16	82.19
4.57	10	SLE R	1	457.00	31.42	18.85	-13294.40	2043.12	-1071.94	123.38
4.57	12	SLE Q	1	457.00	31.42	18.85	-11356.90	1745.36	-915.72	105.40
5.07	10	SLE R	2	0.00	31.42	18.85	-17224.90	2647.18	-1388.86	159.86
5.07	12	SLE Q	2	0.00	31.42	18.85	-14356.90	2206.42	-1157.61	133.24
7.27	10	SLE R	2	220.50	15.71	25.13	9318.31	-793.26	1772.60	95.65
7.27	12	SLE Q	2	220.50	15.71	25.13	7778.29	-662.16	1479.64	79.84
10.07	10	SLE R	2	500.00	32.55	18.85	-17845.40	2651.52	-1437.74	164.00
10.07	12	SLE Q	2	500.00	32.55	18.85	-14957.50	2222.41	-1205.07	137.46
10.57	10	SLE R	3	50.00	32.55	18.85	-14009.90	2081.63	-1128.73	128.75
10.57	12	SLE Q	3	50.00	32.55	18.85	-11964.20	1777.67	-963.91	109.95
12.67	10	SLE R	3	260.00	15.71	13.70	8270.22	-684.27	2813.13	103.91
12.67	12	SLE Q	3	260.00	15.71	13.70	6951.47	-575.16	2364.55	87.34
14.77	10	SLE R	3	470.00	15.71	13.70	-7906.07	2356.17	-687.94	96.60
14.77	12	SLE Q	3	470.00	15.71	13.70	-6318.33	1882.99	-549.78	77.20

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.50	12	SLE Q	1	2	50.00	-5809.29	40.00	123.50	0.50	20.00	132.15	15.71	409.60	1731.29	0.66	0.15
12	0.50	11	SLE F	1	2	50.00	-6170.49	40.00	123.50	0.50	20.00	132.15	15.71	409.60	1838.93	0.62	0.14
23	2.20	12	SLE Q	1	2	219.97	6541.66	40.80	122.50	0.50	18.96	139.97	13.70	421.74	2225.16	0.87	0.21
24	2.20	11	SLE F	1	2	219.97	6854.64	40.80	122.50	0.50	18.96	139.97	13.70	421.74	2331.62	0.81	0.19
35	4.57	12	SLE Q	1	2	457.00	-11356.90	40.00	54.89	0.50	20.00	103.07	31.42	362.35	1745.36	0.75	0.13
36	4.57	11	SLE F	1	2	457.00	-11843.00	40.00	54.89	0.50	20.00	103.07	31.42	362.35	1820.08	0.73	0.13
47	5.07	12	SLE Q	2	2	0.00	-14356.90	40.00	54.89	0.50	20.00	103.07	31.42	362.35	2206.42	0.97	0.17
48	5.07	11	SLE F	2	2	0.00	-15074.60	40.00	54.89	0.50	20.00	103.07	31.42	362.35	2316.71	0.97	0.17
59	7.27	12	SLE Q	2	2	220.50	7778.29	40.00	70.00	0.50	20.00	109.95	25.13	376.34	1479.64	0.60	0.11
60	7.27	11	SLE F	2	2	220.50	8162.45	40.00	70.00	0.50	20.00	109.95	25.13	376.34	1552.72	0.57	0.11
71	10.07	12	SLE Q	2	2	500.00	-14957.50	40.36	49.40	0.50	19.55	102.31	32.55	359.36	2222.41	0.98	0.17
72	10.07	11	SLE F	2	2	500.00	-15680.30	40.36	49.40	0.50	19.55	102.31	32.55	359.36	2329.82	0.98	0.17
83	10.57	12	SLE Q	3	2	50.00	-11964.20	40.36	49.40	0.50	19.55	102.31	32.55	359.36	1777.67	0.76	0.13
84	10.57	11	SLE F	3	2	50.00	-12477.60	40.36	49.40	0.50	19.55	102.31	32.55	359.36	1853.95	0.75	0.13
95	12.67	12	SLE Q	3	2	260.00	6951.47	40.80	122.50	0.50	18.96	139.97	13.70	421.74	2364.55	0.94	0.22
96	12.67	11	SLE F	3	2	260.00	7283.13	40.80	122.50	0.50	18.96	139.97	13.70	421.74	2477.37	0.89	0.21
109	14.77	12	SLE Q	3	2	470.00	-6318.33	40.00	123.50	0.50	20.00	132.15	15.71	409.60	1882.99	0.73	0.16
110	14.77	11	SLE F	3	2	470.00	-6709.81	40.00	123.50	0.50	20.00	132.15	15.71	409.60	1999.66	0.69	0.16

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.60	21992.40	2.50	36879.60	40505.40	36879.60	1.677
9 SLU	0.80	4.27	3.47	ø10/15 2 br.	10.47	0.60	22663.30	2.50	23049.70	40505.40	23049.70	1.017
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.60	26216.90	2.50	36879.60	40505.40	36879.60	1.407
9 SLU	5.07	5.64	0.57	ø8/ 6 2 br.	16.76	0.60	29424.40	2.50	36879.60	40505.40	36879.60	1.253
9 SLU	5.64	9.48	3.84	ø10/15 2 br.	10.47	0.60	22792.90	2.50	23049.70	40505.40	23049.70	1.011
9 SLU	9.48	10.07	0.59	ø8/ 6 2 br.	16.76	0.60	29800.70	2.50	36879.60	40505.40	36879.60	1.238
9 SLU	10.57	10.96	0.39	ø8/ 6 2 br.	16.76	0.60	26955.70	2.50	36879.60	40505.40	36879.60	1.368
9 SLU	10.96	14.47	3.51	ø10/15 2 br.	10.47	0.60	22378.90	2.50	23049.70	40505.40	23049.70	1.030
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.60	22793.40	2.50	36879.60	40505.40	36879.60	1.618

Travata n. 107

Nodi: 103 108 113 118

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>
2	R	60.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	50.00	14.58	12.57	14.58	12.57	-11884.90	-12670.80	1.066
2.20	9	SLU	1	219.95	14.58	12.57	14.58	12.57	10709.30	11083.30	1.035
4.57	9	SLU	1	457.00	30.29	18.85	30.29	18.85	-18323.60	-24830.50	1.355
5.07	9	SLU	2	0.00	30.29	18.85	30.29	18.85	-23648.70	-24830.50	1.050
7.29	9	SLU	2	221.63	15.71	25.13	15.71	25.13	12810.90	20874.80	1.629
10.07	9	SLU	2	500.00	30.29	18.85	30.29	18.85	-24574.20	-24830.50	1.010
10.57	9	SLU	3	50.00	30.29	18.85	30.29	18.85	-19332.00	-24830.50	1.284
12.67	9	SLU	3	260.00	14.58	13.70	14.58	13.70	11382.70	11975.30	1.052
14.77	5	SLV	3	470.00	14.58	13.70	14.58	13.70	-12255.90	-12669.60	1.034

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	50.00	14.58	12.57	-7007.38	2242.11	-619.30	88.98
0.50	12	SLE Q	1	50.00	14.58	12.57	-5592.39	1789.36	-494.24	71.01
2.20	10	SLE R	1	219.95	14.58	12.57	7525.09	-629.12	2778.73	98.74
2.20	12	SLE Q	1	219.95	14.58	12.57	6325.40	-528.83	2335.73	83.00
4.57	10	SLE R	1	457.00	30.29	18.85	-12863.60	2047.35	-1037.94	120.62

4.57	12	SLE Q	1	457.00	30.29	18.85	-10998.50	1750.50	-887.45	103.13
5.07	10	SLE R	2	0.00	30.29	18.85	-16636.90	2647.90	-1342.40	156.00
5.07	12	SLE Q	2	0.00	30.29	18.85	-13871.50	2207.77	-1119.27	130.07
7.29	10	SLE R	2	221.63	15.71	25.13	9002.27	-766.36	1712.48	92.40
7.29	12	SLE Q	2	221.63	15.71	25.13	7517.45	-639.96	1430.02	77.16
10.07	10	SLE R	2	500.00	30.29	18.85	-17247.20	2745.03	-1391.64	161.72
10.07	12	SLE Q	2	500.00	30.29	18.85	-14462.50	2301.82	-1166.95	135.61
10.57	10	SLE R	3	50.00	30.29	18.85	-13565.60	2159.08	-1094.58	127.20
10.57	12	SLE Q	3	50.00	30.29	18.85	-11595.00	1845.45	-935.58	108.72
12.67	10	SLE R	3	260.00	14.58	13.70	7994.72	-675.67	2717.87	101.60
12.67	12	SLE Q	3	260.00	14.58	13.70	6723.56	-568.24	2285.73	85.45
14.77	10	SLE R	3	470.00	14.58	13.70	-7605.41	2434.72	-657.74	95.39
14.77	12	SLE Q	3	470.00	14.58	13.70	-6072.78	1944.08	-525.19	76.17

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>
11	0.50	12	SLE Q	1	2	50.00	-5592.39	40.40	123.50	0.50	19.33	135.63	14.58	413.43	1789.36	0.67	0.15
12	0.50	11	SLE F	1	2	50.00	-5941.05	40.40	123.50	0.50	19.33	135.63	14.58	413.43	1900.92	0.63	0.14
23	2.20	12	SLE Q	1	2	219.95	6325.40	40.00	163.33	0.50	20.00	147.82	12.57	426.16	2335.73	0.90	0.23
24	2.20	11	SLE F	1	2	219.95	6627.16	40.00	163.33	0.50	20.00	147.82	12.57	426.16	2447.16	0.84	0.21
35	4.57	12	SLE Q	1	2	457.00	-10998.50	40.20	54.89	0.50	19.67	104.14	30.29	365.43	1750.50	0.75	0.13
36	4.57	11	SLE F	1	2	457.00	-11466.60	40.20	54.89	0.50	19.67	104.14	30.29	365.43	1825.01	0.73	0.13
47	5.07	12	SLE Q	2	2	0.00	-13871.50	40.20	54.89	0.50	19.67	104.14	30.29	365.43	2207.77	0.97	0.17
48	5.07	11	SLE F	2	2	0.00	-14563.50	40.20	54.89	0.50	19.67	104.14	30.29	365.43	2317.91	0.97	0.17
59	7.29	12	SLE Q	2	2	221.63	7517.45	40.00	70.00	0.50	20.00	109.95	25.13	376.34	1430.02	0.57	0.11
60	7.29	11	SLE F	2	2	221.63	7887.80	40.00	70.00	0.50	20.00	109.95	25.13	376.34	1500.47	0.55	0.10
71	10.07	12	SLE Q	2	2	500.00	-14462.50	40.20	54.89	0.50	19.67	104.14	30.29	365.43	2301.82	1.01	0.18
72	10.07	11	SLE F	2	2	500.00	-15159.50	40.20	54.89	0.50	19.67	104.14	30.29	365.43	2412.76	1.01	0.18
83	10.57	12	SLE Q	3	2	50.00	-11595.00	40.20	54.89	0.50	19.67	104.14	30.29	365.43	1845.45	0.79	0.14
84	10.57	11	SLE F	3	2	50.00	-12089.80	40.20	54.89	0.50	19.67	104.14	30.29	365.43	1924.19	0.78	0.14
95	12.67	12	SLE Q	3	2	260.00	6723.56	40.80	122.50	0.50	18.96	139.78	13.70	420.36	2285.73	0.90	0.21
96	12.67	11	SLE F	3	2	260.00	7043.35	40.80	122.50	0.50	18.96	139.78	13.70	420.36	2394.44	0.85	0.20
107	14.77	12	SLE Q	3	2	470.00	-6072.78	40.40	123.50	0.50	19.33	135.83	14.58	414.92	1944.08	0.75	0.17
108	14.77	11	SLE F	3	2	470.00	-6450.37	40.40	123.50	0.50	19.33	135.83	14.58	414.92	2064.96	0.71	0.16

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.60	21229.10	2.50	36879.60	40505.40	36879.60	1.737
9 SLU	0.80	4.27	3.47	ø10/15 2 br.	10.47	0.60	21907.20	2.50	23049.70	40505.40	23049.70	1.052
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.60	25339.90	2.50	36879.60	40505.40	36879.60	1.455
9 SLU	5.07	5.87	0.80	ø8/ 6 2 br.	16.76	0.60	28419.90	2.50	36879.60	40505.40	36879.60	1.298
9 SLU	5.87	9.31	3.43	ø10/15 2 br.	10.47	0.60	20037.30	2.50	23049.70	40505.40	23049.70	1.150
9 SLU	9.31	10.07	0.76	ø8/ 6 2 br.	16.76	0.60	28790.10	2.50	36879.60	40505.40	36879.60	1.281
9 SLU	10.57	10.87	0.30	ø8/ 6 2 br.	16.76	0.60	26061.40	2.50	36879.60	40505.40	36879.60	1.415
9 SLU	10.87	14.47	3.60	ø10/15 2 br.	10.47	0.60	22628.70	2.50	23049.70	40505.40	23049.70	1.019
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.60	21995.10	2.50	36879.60	40505.40	36879.60	1.677

Travata n. 108

Nodi: 104 109 114 119

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>
2	R	60.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	50.00	15.71	13.70	15.71	13.70	-12121.10	-13560.70	1.119
2.20	9	SLU	1	219.97	15.71	13.70	15.71	13.70	11082.70	11974.40	1.080
4.57	9	SLU	1	457.00	31.42	18.85	31.42	18.85	-18938.10	-25683.70	1.356
5.07	9	SLU	2	0.00	31.42	18.85	31.42	18.85	-24489.50	-25683.70	1.049
7.27	9	SLU	2	220.50	15.71	25.13	15.71	25.13	13263.00	20874.80	1.574
10.07	9	SLU	2	500.00	31.42	21.99	31.42	21.99	-25430.20	-25742.90	1.012
10.57	9	SLU	3	50.00	31.42	21.99	31.42	21.99	-19965.60	-25742.90	1.289
12.67	9	SLU	3	260.00	15.71	13.70	15.71	13.70	11776.40	11974.40	1.017
14.77	5	SLV	3	470.00	15.71	13.70	15.71	13.70	-12549.50	-13560.70	1.081

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	50.00	15.71	13.70	-7273.75	2167.72	-632.92	88.87
0.50	12	SLE Q	1	50.00	15.71	13.70	-5809.29	1731.29	-505.49	70.98
2.20	10	SLE R	1	219.97	15.71	13.70	7786.38	-644.24	2648.55	97.83
2.20	12	SLE Q	1	219.97	15.71	13.70	6541.66	-541.25	2225.16	82.19
4.57	10	SLE R	1	457.00	31.42	18.85	-13294.40	2043.12	-1071.94	123.38
4.57	12	SLE Q	1	457.00	31.42	18.85	-11356.90	1745.36	-915.72	105.40
5.07	10	SLE R	2	0.00	31.42	18.85	-17224.90	2647.18	-1388.86	159.86
5.07	12	SLE Q	2	0.00	31.42	18.85	-14356.90	2206.42	-1157.61	133.24
7.27	10	SLE R	2	220.50	15.71	25.13	9318.31	-793.26	1772.60	95.65
7.27	12	SLE Q	2	220.50	15.71	25.13	7778.29	-662.16	1479.64	79.84

10.07	10	SLE R	2	500.00	31.42	21.99	-17845.40	2741.22	-1370.76	159.92
10.07	12	SLE Q	2	500.00	31.42	21.99	-14957.50	2297.60	-1148.93	134.04
10.57	10	SLE R	3	50.00	31.42	21.99	-14009.90	2152.05	-1076.14	125.55
10.57	12	SLE Q	3	50.00	31.42	21.99	-11964.20	1837.81	-919.00	107.21
12.67	10	SLE R	3	260.00	15.71	13.70	8270.22	-684.27	2813.13	103.91
12.67	12	SLE Q	3	260.00	15.71	13.70	6951.47	-575.16	2364.55	87.34
14.77	10	SLE R	3	470.00	15.71	13.70	-7906.07	2356.17	-687.94	96.60
14.77	12	SLE Q	3	470.00	15.71	13.70	-6318.33	1882.99	-549.78	77.20

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.50	12	SLE Q	1	2	50.00	-5809.29	40.00	123.50	0.50	20.00	132.15	15.71	409.60	1731.29	0.66	0.15
12	0.50	11	SLE F	1	2	50.00	-6170.49	40.00	123.50	0.50	20.00	132.15	15.71	409.60	1838.93	0.62	0.14
23	2.20	12	SLE Q	1	2	219.97	6541.66	40.80	122.50	0.50	18.96	139.97	13.70	421.74	2225.16	0.87	0.21
24	2.20	11	SLE F	1	2	219.97	6854.64	40.80	122.50	0.50	18.96	139.97	13.70	421.74	2331.62	0.81	0.19
35	4.57	12	SLE Q	1	2	457.00	-11356.90	40.00	54.89	0.50	20.00	103.07	31.42	362.35	1745.36	0.75	0.13
36	4.57	11	SLE F	1	2	457.00	-11843.00	40.00	54.89	0.50	20.00	103.07	31.42	362.35	1820.08	0.73	0.13
47	5.07	12	SLE Q	2	2	0.00	-14356.90	40.00	54.89	0.50	20.00	103.07	31.42	362.35	2206.42	0.97	0.17
48	5.07	11	SLE F	2	2	0.00	-15074.60	40.00	54.89	0.50	20.00	103.07	31.42	362.35	2316.71	0.97	0.17
59	7.27	12	SLE Q	2	2	220.50	7778.29	40.00	70.00	0.50	20.00	109.95	25.13	376.34	1479.64	0.60	0.11
60	7.27	11	SLE F	2	2	220.50	8162.45	40.00	70.00	0.50	20.00	109.95	25.13	376.34	1552.72	0.57	0.11
71	10.07	12	SLE Q	2	2	500.00	-14957.50	40.00	54.89	0.50	20.00	103.34	31.42	366.66	2297.60	1.01	0.18
72	10.07	11	SLE F	2	2	500.00	-15680.30	40.00	54.89	0.50	20.00	103.34	31.42	366.66	2408.64	1.02	0.18
83	10.57	12	SLE Q	3	2	50.00	-11964.20	40.00	54.89	0.50	20.00	103.34	31.42	366.66	1837.81	0.79	0.14
84	10.57	11	SLE F	3	2	50.00	-12477.60	40.00	54.89	0.50	20.00	103.34	31.42	366.66	1916.68	0.78	0.14
95	12.67	12	SLE Q	3	2	260.00	6951.47	40.80	122.50	0.50	18.96	139.97	13.70	421.74	2364.55	0.94	0.22
96	12.67	11	SLE F	3	2	260.00	7283.13	40.80	122.50	0.50	18.96	139.97	13.70	421.74	2477.37	0.89	0.21
109	14.77	12	SLE Q	3	2	470.00	-6318.33	40.00	123.50	0.50	20.00	132.15	15.71	409.60	1882.99	0.73	0.16
110	14.77	11	SLE F	3	2	470.00	-6709.81	40.00	123.50	0.50	20.00	132.15	15.71	409.60	1999.66	0.69	0.16

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.60	21992.40	2.50	36879.60	40505.40	36879.60	1.677
9 SLU	0.80	4.27	3.47	ø10/15 2 br.	10.47	0.60	22663.30	2.50	23049.70	40505.40	23049.70	1.017
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.60	26216.90	2.50	36879.60	40505.40	36879.60	1.407
9 SLU	5.07	5.88	0.81	ø8/ 6 2 br.	16.76	0.60	29424.40	2.50	36879.60	40505.40	36879.60	1.253
9 SLU	5.88	9.26	3.37	ø10/15 2 br.	10.47	0.60	20163.90	2.50	23049.70	40505.40	23049.70	1.143
9 SLU	9.26	10.07	0.81	ø8/ 6 2 br.	16.76	0.60	29800.70	2.50	36879.60	40505.40	36879.60	1.238
9 SLU	10.57	10.99	0.42	ø8/ 6 2 br.	16.76	0.60	26955.70	2.50	36879.60	40505.40	36879.60	1.368
9 SLU	10.99	14.47	3.48	ø10/15 2 br.	10.47	0.60	21989.10	2.50	23049.70	40505.40	23049.70	1.048
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.60	22793.40	2.50	36879.60	40505.40	36879.60	1.618

Travata n. 109

Nodi: 105 110 115 120

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	457.00	9.42	7.16	9.42	7.16	-7948.02	-8408.89	1.058
2.13	9	SLU	1	293.65	8.29	7.16	8.29	7.16	6143.10	6608.13	1.076
4.57	5	SLV	1	50.00	16.59	7.16	16.59	7.16	-11145.40	-14005.70	1.257
5.07	9	SLU	2	500.00	16.59	7.16	16.59	7.16	-13461.60	-14005.70	1.040
7.38	9	SLU	2	268.98	8.29	14.33	8.29	14.33	7219.50	12268.00	1.699
10.07	9	SLU	2	0.00	17.72	7.16	17.72	7.16	-14032.90	-14863.70	1.059
10.57	5	SLV	3	470.00	17.72	7.16	17.72	7.16	-11694.40	-14863.70	1.271
12.67	9	SLU	3	260.00	9.42	7.16	9.42	7.16	6550.38	6610.35	1.009
14.77	5	SLV	3	50.00	9.42	7.16	9.42	7.16	-8157.02	-8408.89	1.031

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	457.00	9.42	7.16	-3910.49	1909.48	-436.50	68.20
0.50	12	SLE Q	1	457.00	9.42	7.16	-3114.84	1520.97	-347.69	54.32
2.13	10	SLE R	1	293.65	8.29	7.16	4322.87	-440.95	2747.82	82.54
2.13	12	SLE Q	1	293.65	8.29	7.16	3678.35	-375.21	2338.14	70.24
4.57	10	SLE R	1	50.00	16.59	7.16	-7315.49	2084.68	-850.11	105.59
4.57	12	SLE Q	1	50.00	16.59	7.16	-6358.15	1811.87	-738.86	91.77
5.07	10	SLE R	2	500.00	16.59	7.16	-9482.01	2702.07	-1101.87	136.86
5.07	12	SLE Q	2	500.00	16.59	7.16	-7993.75	2277.97	-928.92	115.38
7.38	10	SLE R	2	268.98	8.29	14.33	5078.28	-572.61	1664.07	75.45
7.38	12	SLE Q	2	268.98	8.29	14.33	4284.59	-483.12	1403.98	63.66
10.07	10	SLE R	2	0.00	17.72	7.16	-9859.43	2639.18	-1146.06	139.49
10.07	12	SLE Q	2	0.00	17.72	7.16	-8359.66	2237.72	-971.73	118.27
10.57	10	SLE R	3	470.00	17.72	7.16	-7853.17	2102.14	-912.86	111.11
10.57	12	SLE Q	3	470.00	17.72	7.16	-6835.66	1829.77	-794.58	96.71
12.67	10	SLE R	3	260.00	9.42	7.16	4606.82	-455.95	2931.75	86.86

12.67	12	SLE Q	3	260.00	9.42	7.16	3924.16	-388.39	2497.31	73.99
14.77	10	SLE R	3	50.00	9.42	7.16	-4106.31	2005.09	-458.36	71.61
14.77	12	SLE Q	3	50.00	9.42	7.16	-3252.65	1588.26	-363.07	56.73

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>
12	0.50	12	SLE Q	1	4	457.00	-3114.84	41.50	131.33	0.50	17.65	149.40	9.42	354.64	1520.97	0.49	0.12
13	0.50	11	SLE F	1	4	457.00	-3312.10	41.50	131.33	0.50	17.65	149.40	9.42	354.64	1617.28	0.47	0.12
24	2.13	12	SLE Q	1	4	293.65	3678.35	41.33	196.00	0.50	17.54	173.40	7.16	370.57	2338.14	0.80	0.24
25	2.13	11	SLE F	1	4	293.65	3839.27	41.33	196.00	0.50	17.54	173.40	7.16	370.57	2440.42	0.71	0.21
38	4.57	12	SLE Q	1	4	50.00	-6358.15	40.67	78.80	0.50	18.86	117.72	16.59	320.11	1811.87	0.73	0.15
39	4.57	11	SLE F	1	4	50.00	-6599.45	40.67	78.80	0.50	18.86	117.72	16.59	320.11	1880.64	0.69	0.14
50	5.07	12	SLE Q	2	4	500.00	-7993.75	40.67	78.80	0.50	18.86	117.72	16.59	320.11	2277.97	0.96	0.19
51	5.07	11	SLE F	2	4	500.00	-8365.70	40.67	78.80	0.50	18.86	117.72	16.59	320.11	2383.96	0.94	0.19
62	7.38	12	SLE Q	2	4	268.98	4284.59	41.33	78.40	0.50	17.54	123.23	14.33	331.33	1403.98	0.51	0.11
63	7.38	11	SLE F	2	4	268.98	4483.21	41.33	78.40	0.50	17.54	123.23	14.33	331.33	1469.07	0.46	0.10
74	10.07	12	SLE Q	2	4	0.00	-8359.66	40.33	78.80	0.50	19.45	115.32	17.72	315.74	2237.72	0.95	0.19
75	10.07	11	SLE F	2	4	0.00	-8734.34	40.33	78.80	0.50	19.45	115.32	17.72	315.74	2338.02	0.93	0.18
86	10.57	12	SLE Q	3	4	470.00	-6835.66	40.33	78.80	0.50	19.45	115.32	17.72	315.74	1829.77	0.75	0.15
87	10.57	11	SLE F	3	4	470.00	-7092.01	40.33	78.80	0.50	19.45	115.32	17.72	315.74	1898.39	0.72	0.14
98	12.67	12	SLE Q	3	4	260.00	3924.16	41.33	196.00	0.50	17.54	173.70	7.16	371.80	2497.31	0.88	0.26
99	12.67	11	SLE F	3	4	260.00	4094.55	41.33	196.00	0.50	17.54	173.70	7.16	371.80	2605.75	0.77	0.23
111	14.77	12	SLE Q	3	4	50.00	-3252.65	40.00	197.00	0.50	20.00	155.26	9.42	354.64	1588.26	0.52	0.14
112	14.77	11	SLE F	3	4	50.00	-3464.42	40.00	197.00	0.50	20.00	155.26	9.42	354.64	1691.66	0.49	0.13

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	12036.10	2.37	35020.20	35020.20	35020.20	2.910
9 SLU	0.80	4.27	3.47	ø10/20 2 br.	7.85	0.50	12465.20	2.50	17287.30	33754.50	17287.30	1.387
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.50	14414.90	2.37	35020.20	35020.20	35020.20	2.429
9 SLU	5.07	5.37	0.30	ø8/ 6 2 br.	16.76	0.50	16133.30	2.37	35020.20	35020.20	35020.20	2.171
9 SLU	5.37	9.77	4.40	ø10/20 2 br.	7.85	0.50	14412.10	2.50	17287.30	33754.50	17287.30	1.200
9 SLU	9.77	10.07	0.30	ø8/ 6 2 br.	16.76	0.50	16361.80	2.37	35020.20	35020.20	35020.20	2.140
9 SLU	10.57	10.87	0.30	ø8/ 6 2 br.	16.76	0.50	14925.10	2.37	35020.20	35020.20	35020.20	2.346
9 SLU	10.87	14.47	3.60	ø10/20 2 br.	7.85	0.50	12975.40	2.50	17287.30	33754.50	17287.30	1.332
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.50	12370.80	2.37	35020.20	35020.20	35020.20	2.831

Travata n. 201

Nodi: 201 202 203 204 205

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>
5	R	30.00	25.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	669.00	6.28	4.02	6.28	4.02	-3315.89	-4314.82	1.301
3.44	9	SLU	1	365.01	6.28	4.02	6.28	4.02	1601.06	2960.59	1.849
6.89	1	SLV	1	20.00	6.28	4.02	6.28	4.02	-4020.59	-4314.82	1.073
7.29	1	SLV	2	640.00	6.28	4.02	6.28	4.02	-3684.41	-4314.82	1.171
10.39	9	SLU	2	330.00	6.28	4.02	6.28	4.02	1440.57	2960.59	2.055
13.49	1	SLV	2	20.00	6.28	4.02	6.28	4.02	-3661.89	-4314.82	1.178
13.89	1	SLV	3	640.00	6.28	4.02	6.28	4.02	-3661.89	-4314.82	1.178
16.98	9	SLU	3	330.61	6.28	4.02	6.28	4.02	1440.57	2960.59	2.055
20.09	1	SLV	3	20.00	6.28	4.02	6.28	4.02	-3684.41	-4314.82	1.171
20.49	1	SLV	4	689.00	6.28	4.02	6.28	4.02	-4020.59	-4314.82	1.073
23.73	9	SLU	4	364.50	6.28	4.02	6.28	4.02	1601.06	2960.59	1.849
26.98	1	SLV	4	40.00	6.28	4.02	6.28	4.02	-3315.89	-4314.82	1.301

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	669.00	6.28	4.02	-1548.39	1452.08	-359.20	64.20
0.40	12	SLE Q	1	669.00	6.28	4.02	-1567.75	1470.24	-363.69	65.00
3.44	10	SLE R	1	365.01	6.28	4.02	1117.67	-193.72	1609.37	52.98
3.44	12	SLE Q	1	365.01	6.28	4.02	1118.08	-193.79	1609.96	53.00
6.89	10	SLE R	1	20.00	6.28	4.02	-2286.98	2144.74	-530.54	94.82
6.89	12	SLE Q	1	20.00	6.28	4.02	-2264.29	2123.46	-525.28	93.88
7.29	10	SLE R	2	640.00	6.28	4.02	-1763.72	1654.03	-409.15	73.13
7.29	12	SLE Q	2	640.00	6.28	4.02	-1761.29	1651.74	-408.59	73.02
10.39	10	SLE R	2	330.00	6.28	4.02	1005.61	-174.29	1448.01	47.67
10.39	12	SLE Q	2	330.00	6.28	4.02	1005.85	-174.34	1448.36	47.68
13.49	10	SLE R	2	20.00	6.28	4.02	-1741.47	1633.15	-403.99	72.20
13.49	12	SLE Q	2	20.00	6.28	4.02	-1743.46	1635.02	-404.45	72.28
13.89	10	SLE R	3	640.00	6.28	4.02	-1741.47	1633.15	-403.99	72.20
13.89	12	SLE Q	3	640.00	6.28	4.02	-1743.46	1635.02	-404.45	72.28
16.98	10	SLE R	3	330.61	6.28	4.02	1005.61	-174.29	1448.01	47.67
16.98	12	SLE Q	3	330.61	6.28	4.02	1005.85	-174.34	1448.35	47.68
20.09	10	SLE R	3	20.00	6.28	4.02	-1763.72	1654.03	-409.15	73.13

20.09	12	SLE Q	3	20.00	6.28	4.02	-1761.29	1651.74	-408.59	73.02
20.49	10	SLE R	4	689.00	6.28	4.02	-2286.98	2144.74	-530.54	94.82
20.49	12	SLE Q	4	689.00	6.28	4.02	-2264.29	2123.46	-525.28	93.88
23.73	10	SLE R	4	364.50	6.28	4.02	1117.67	-193.72	1609.37	52.98
23.73	12	SLE Q	4	364.50	6.28	4.02	1118.08	-193.79	1609.96	53.00
26.98	10	SLE R	4	40.00	6.28	4.02	-1548.38	1452.08	-359.20	64.20
26.98	12	SLE Q	4	40.00	6.28	4.02	-1567.75	1470.24	-363.69	65.00

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>
11	0.40	12	SLE Q	1	5	669.00	-1567.75	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1470.24	0.52	0.12
12	0.40	11	SLE F	1	5	669.00	-1563.48	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1466.23	0.43	0.10
23	3.44	12	SLE Q	1	5	365.01	1118.08	42.00	198.00	0.50	16.00	157.16	4.02	183.88	1609.96	0.48	0.13
24	3.44	11	SLE F	1	5	365.01	1117.98	42.00	198.00	0.50	16.00	157.16	4.02	183.88	1609.81	0.47	0.13
35	6.89	12	SLE Q	1	5	20.00	-2264.29	40.00	194.00	0.50	20.00	134.19	6.28	170.25	2123.46	0.84	0.19
36	6.89	11	SLE F	1	5	20.00	-2269.31	40.00	194.00	0.50	20.00	134.19	6.28	170.25	2128.17	0.75	0.17
47	7.29	12	SLE Q	2	5	640.00	-1761.29	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1651.74	0.61	0.14
48	7.29	11	SLE F	2	5	640.00	-1761.83	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1652.25	0.52	0.12
59	10.39	12	SLE Q	2	5	330.00	1005.85	42.00	198.00	0.50	16.00	157.16	4.02	183.88	1448.36	0.42	0.11
60	10.39	11	SLE F	2	5	330.00	1005.80	42.00	198.00	0.50	16.00	157.16	4.02	183.88	1448.28	0.42	0.11
71	13.49	12	SLE Q	2	5	20.00	-1743.46	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1635.02	0.60	0.14
72	13.49	11	SLE F	2	5	20.00	-1743.01	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1634.60	0.51	0.12
83	13.89	12	SLE Q	3	5	640.00	-1743.46	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1635.02	0.60	0.14
84	13.89	11	SLE F	3	5	640.00	-1743.01	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1634.60	0.51	0.12
95	16.98	12	SLE Q	3	5	330.61	1005.85	42.00	198.00	0.50	16.00	157.16	4.02	183.88	1448.35	0.42	0.11
96	16.98	11	SLE F	3	5	330.61	1005.80	42.00	198.00	0.50	16.00	157.16	4.02	183.88	1448.28	0.42	0.11
107	20.09	12	SLE Q	3	5	20.00	-1761.29	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1651.74	0.61	0.14
108	20.09	11	SLE F	3	5	20.00	-1761.83	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1652.25	0.52	0.12
119	20.49	12	SLE Q	4	5	689.00	-2264.29	40.00	194.00	0.50	20.00	134.19	6.28	170.25	2123.46	0.84	0.19
120	20.49	11	SLE F	4	5	689.00	-2269.31	40.00	194.00	0.50	20.00	134.19	6.28	170.25	2128.17	0.75	0.17
131	23.73	12	SLE Q	4	5	364.50	1118.08	42.00	198.00	0.50	16.00	157.16	4.02	183.88	1609.96	0.48	0.13
132	23.73	11	SLE F	4	5	364.50	1117.98	42.00	198.00	0.50	16.00	157.16	4.02	183.88	1609.81	0.47	0.13
143	26.98	12	SLE Q	4	5	40.00	-1567.75	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1470.24	0.52	0.12
144	26.98	11	SLE F	4	5	40.00	-1563.47	40.00	194.00	0.50	20.00	134.19	6.28	170.25	1466.23	0.43	0.10

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.40	0.65	0.25	ø8/ 5 2 br.	20.11	0.30	3034.09	1.52	21560.50	21560.50	21560.50	7.106
TG	0.65	6.64	5.99	ø8/15 2 br.	6.70	0.30	2895.34	2.50	11801.50	16202.20	11801.50	4.076
TG	6.64	6.89	0.25	ø8/ 5 2 br.	20.11	0.30	3034.09	1.52	21560.50	21560.50	21560.50	7.106
TG	7.29	7.54	0.25	ø8/ 5 2 br.	20.11	0.30	3011.30	1.52	21560.50	21560.50	21560.50	7.160
TG	7.54	13.24	5.70	ø8/15 2 br.	6.70	0.30	2872.55	2.50	11801.50	16202.20	11801.50	4.108
TG	13.24	13.49	0.25	ø8/ 5 2 br.	20.11	0.30	3011.30	1.52	21560.50	21560.50	21560.50	7.160
TG	13.89	14.14	0.25	ø8/ 5 2 br.	20.11	0.30	3011.30	1.52	21560.50	21560.50	21560.50	7.160
TG	14.14	19.84	5.70	ø8/15 2 br.	6.70	0.30	2872.55	2.50	11801.50	16202.20	11801.50	4.108
TG	19.84	20.09	0.25	ø8/ 5 2 br.	20.11	0.30	3011.30	1.52	21560.50	21560.50	21560.50	7.160
TG	20.49	20.74	0.25	ø8/ 5 2 br.	20.11	0.30	3034.09	1.52	21560.50	21560.50	21560.50	7.106
TG	20.74	26.73	5.99	ø8/15 2 br.	6.70	0.30	2895.34	2.50	11801.50	16202.20	11801.50	4.076
TG	26.73	26.98	0.25	ø8/ 5 2 br.	20.11	0.30	3034.09	1.52	21560.50	21560.50	21560.50	7.106

Travata n. 205

Nodi: 201 206 211 216

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>
5	R	30.00	25.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	50.00	4.02	4.02	4.02	4.02	-2402.50	-2954.33	1.230
0.81	5	SLV	1	81.31	4.02	4.02	4.02	4.02	-2233.93	-2954.33	1.322
4.57	5	SLV	1	457.00	5.15	4.02	5.15	4.02	-2961.24	-3636.97	1.228
5.07	5	SLV	2	0.00	5.15	4.02	5.15	4.02	-3000.54	-3636.97	1.212
6.01	5	SLV	2	93.75	4.02	4.02	4.02	4.02	-1623.28	-2954.33	1.820
10.07	5	SLV	2	500.00	5.15	4.02	5.15	4.02	-3080.88	-3636.97	1.180
10.57	5	SLV	3	50.00	5.15	4.02	5.15	4.02	-3095.51	-3636.97	1.175
14.47	5	SLV	3	440.00	4.02	4.02	4.02	4.02	-2261.83	-2954.33	1.306
14.77	5	SLV	3	470.00	4.02	4.02	4.02	4.02	-2404.76	-2954.33	1.229

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	50.00	4.02	4.02	-493.13	705.98	-95.15	24.15
0.50	12	SLE Q	1	50.00	4.02	4.02	-466.25	667.50	-89.97	22.83
0.81	10	SLE R	1	81.31	4.02	4.02	-407.17	582.92	-78.57	19.94
0.81	12	SLE Q	1	81.31	4.02	4.02	-381.25	545.81	-73.56	18.67
4.57	10	SLE R	1	457.00	5.15	4.02	-1018.52	1152.90	-221.91	45.34
4.57	12	SLE Q	1	457.00	5.15	4.02	-1035.69	1172.34	-225.65	46.11
5.07	10	SLE R	2	0.00	5.15	4.02	-1099.86	1244.97	-239.63	48.97

5.07	12	SLE Q	2	0.00	5.15	4.02	-1102.24	1247.67	-240.15	49.07
6.01	10	SLE R	2	93.75	4.02	4.02	-263.44	377.15	-50.83	12.90
6.01	12	SLE Q	2	93.75	4.02	4.02	-265.99	380.80	-51.32	13.02
10.07	10	SLE R	2	500.00	5.15	4.02	-1179.17	1334.75	-256.91	52.50
10.07	12	SLE Q	2	500.00	5.15	4.02	-1182.67	1338.71	-257.67	52.65
10.57	10	SLE R	3	50.00	5.15	4.02	-1137.00	1287.02	-247.72	50.62
10.57	12	SLE Q	3	50.00	5.15	4.02	-1152.08	1304.09	-251.00	51.29
14.47	10	SLE R	3	440.00	4.02	4.02	-402.74	576.58	-77.71	19.72
14.47	12	SLE Q	3	440.00	4.02	4.02	-378.12	541.33	-72.96	18.51
14.77	10	SLE R	3	470.00	4.02	4.02	-476.80	682.61	-92.00	23.35
14.77	12	SLE Q	3	470.00	4.02	4.02	-451.46	646.32	-87.11	22.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.50	12	SLE Q	1	5	50.00	-466.25	42.00	198.00	0.50	16.00	156.49	4.02	182.18	667.50	0.19	0.05
12	0.50	11	SLE F	1	5	50.00	-472.53	42.00	198.00	0.50	16.00	156.49	4.02	182.18	676.49	0.20	0.05
23	0.81	12	SLE Q	1	5	81.31	-381.25	42.00	198.00	0.50	16.00	156.49	4.02	182.18	545.81	0.16	0.04
24	0.81	11	SLE F	1	5	81.31	-387.31	42.00	198.00	0.50	16.00	156.49	4.02	182.18	554.48	0.16	0.04
35	4.57	12	SLE Q	1	5	457.00	-1035.69	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1172.34	0.34	0.08
36	4.57	11	SLE F	1	5	457.00	-1031.70	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1167.82	0.34	0.08
47	5.07	12	SLE Q	2	5	0.00	-1102.24	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1247.67	0.38	0.09
48	5.07	11	SLE F	2	5	0.00	-1101.80	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1247.17	0.36	0.08
62	6.01	12	SLE Q	2	5	93.75	-265.99	42.00	198.00	0.50	16.00	156.49	4.02	182.18	380.80	0.11	0.03
64	6.01	11	SLE F	2	5	93.75	-265.50	42.00	198.00	0.50	16.00	156.49	4.02	182.18	380.11	0.11	0.03
75	10.07	12	SLE Q	2	5	500.00	-1182.67	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1338.71	0.42	0.10
76	10.07	11	SLE F	2	5	500.00	-1181.97	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1337.92	0.39	0.09
87	10.57	12	SLE Q	3	5	50.00	-1152.08	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1304.09	0.40	0.09
88	10.57	11	SLE F	3	5	50.00	-1148.57	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1300.11	0.38	0.09
100	14.47	12	SLE Q	3	5	440.00	-378.12	42.00	198.00	0.50	16.00	156.49	4.02	182.18	541.33	0.16	0.04
101	14.47	11	SLE F	3	5	440.00	-383.88	42.00	198.00	0.50	16.00	156.49	4.02	182.18	549.57	0.16	0.04
113	14.77	12	SLE Q	3	5	470.00	-451.46	42.00	198.00	0.50	16.00	156.49	4.02	182.18	646.32	0.19	0.05
114	14.77	11	SLE F	3	5	470.00	-457.38	42.00	198.00	0.50	16.00	156.49	4.02	182.18	654.81	0.19	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.50	0.75	0.25	ø8/ 5 2 br.	20.11	0.30	2727.35	1.52	21560.50	21560.50	21560.50	7.905
TG	0.75	4.32	3.57	ø8/15 2 br.	6.70	0.30	2772.11	2.50	11801.50	16202.20	11801.50	4.257
TG	4.32	4.57	0.25	ø8/ 5 2 br.	20.11	0.30	2910.86	1.52	21560.50	21560.50	21560.50	7.407
TG	5.07	5.32	0.25	ø8/ 5 2 br.	20.11	0.30	2838.39	1.52	21560.50	21560.50	21560.50	7.596
TG	5.32	9.82	4.50	ø8/15 2 br.	6.70	0.30	2699.64	2.50	11801.50	16202.20	11801.50	4.372
TG	9.82	10.07	0.25	ø8/ 5 2 br.	20.11	0.30	2838.39	1.52	21560.50	21560.50	21560.50	7.596
TG	10.57	10.82	0.25	ø8/ 5 2 br.	20.11	0.30	2891.79	1.52	21560.50	21560.50	21560.50	7.456
TG	10.82	14.52	3.70	ø8/15 2 br.	6.70	0.30	2753.04	2.50	11801.50	16202.20	11801.50	4.287
TG	14.52	14.77	0.25	ø8/ 5 2 br.	20.11	0.30	2713.96	1.52	21560.50	21560.50	21560.50	7.944

Travata n. 209

Nodi: 205 210 215 220

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>
5	R	30.00	25.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	457.00	4.02	4.02	4.02	4.02	-2402.51	-2954.33	1.230
4.57	5	SLV	1	50.00	5.15	4.02	5.15	4.02	-2961.24	-3636.97	1.228
5.07	5	SLV	2	500.00	5.15	4.02	5.15	4.02	-3000.54	-3636.97	1.212
6.01	5	SLV	2	406.25	4.02	4.02	4.02	4.02	-1623.28	-2954.33	1.820
10.07	5	SLV	2	0.00	5.15	4.02	5.15	4.02	-3080.89	-3636.97	1.180
10.57	5	SLV	3	470.00	5.15	4.02	5.15	4.02	-3095.51	-3636.97	1.175
14.47	5	SLV	3	80.00	4.02	4.02	4.02	4.02	-2261.84	-2954.33	1.306
14.77	5	SLV	3	50.00	4.02	4.02	4.02	4.02	-2404.76	-2954.33	1.229

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	457.00	4.02	4.02	-493.13	705.98	-95.15	24.15
0.50	12	SLE Q	1	457.00	4.02	4.02	-466.25	667.50	-89.97	22.83
4.57	10	SLE R	1	50.00	5.15	4.02	-1018.52	1152.90	-221.91	45.34
4.57	12	SLE Q	1	50.00	5.15	4.02	-1035.69	1172.34	-225.65	46.11
5.07	10	SLE R	2	500.00	5.15	4.02	-1099.86	1244.97	-239.63	48.97
5.07	12	SLE Q	2	500.00	5.15	4.02	-1102.24	1247.67	-240.15	49.07
6.01	10	SLE R	2	406.25	4.02	4.02	-263.44	377.15	-50.83	12.90
6.01	12	SLE Q	2	406.25	4.02	4.02	-265.99	380.80	-51.32	13.02
10.07	10	SLE R	2	0.00	5.15	4.02	-1179.17	1334.75	-256.91	52.50
10.07	12	SLE Q	2	0.00	5.15	4.02	-1182.67	1338.71	-257.67	52.65
10.57	10	SLE R	3	470.00	5.15	4.02	-1137.00	1287.02	-247.72	50.62
10.57	12	SLE Q	3	470.00	5.15	4.02	-1152.08	1304.09	-251.01	51.29
14.47	10	SLE R	3	80.00	4.02	4.02	-402.74	576.58	-77.71	19.72

14.47	12	SLE Q	3	80.00	4.02	4.02	-378.12	541.33	-72.96	18.51
14.77	10	SLE R	3	50.00	4.02	4.02	-476.80	682.61	-92.00	23.35
14.77	12	SLE Q	3	50.00	4.02	4.02	-451.46	646.32	-87.11	22.11

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.50	12	SLE Q	1	5	457.00	-466.25	42.00	198.00	0.50	16.00	156.49	4.02	182.18	667.50	0.19	0.05
12	0.50	11	SLE F	1	5	457.00	-472.53	42.00	198.00	0.50	16.00	156.49	4.02	182.18	676.49	0.20	0.05
23	4.57	12	SLE Q	1	5	50.00	-1035.69	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1172.34	0.34	0.08
24	4.57	11	SLE F	1	5	50.00	-1031.70	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1167.82	0.34	0.08
35	5.07	12	SLE Q	2	5	500.00	-1102.24	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1247.67	0.38	0.09
36	5.07	11	SLE F	2	5	500.00	-1101.80	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1247.17	0.36	0.08
49	6.01	12	SLE Q	2	5	406.25	-265.99	42.00	198.00	0.50	16.00	156.49	4.02	182.18	380.80	0.11	0.03
51	6.01	11	SLE F	2	5	406.25	-265.50	42.00	198.00	0.50	16.00	156.49	4.02	182.18	380.11	0.11	0.03
63	10.07	12	SLE Q	2	5	0.00	-1182.67	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1338.71	0.42	0.10
64	10.07	11	SLE F	2	5	0.00	-1181.97	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1337.92	0.39	0.09
75	10.57	12	SLE Q	3	5	470.00	-1152.08	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1304.09	0.40	0.09
76	10.57	11	SLE F	3	5	470.00	-1148.57	42.67	99.00	0.50	14.91	136.20	5.15	175.79	1300.12	0.38	0.09
88	14.47	12	SLE Q	3	5	80.00	-378.12	42.00	198.00	0.50	16.00	156.49	4.02	182.18	541.33	0.16	0.04
89	14.47	11	SLE F	3	5	80.00	-383.87	42.00	198.00	0.50	16.00	156.49	4.02	182.18	549.57	0.16	0.04
101	14.77	12	SLE Q	3	5	50.00	-451.46	42.00	198.00	0.50	16.00	156.49	4.02	182.18	646.32	0.19	0.05
102	14.77	11	SLE F	3	5	50.00	-457.38	42.00	198.00	0.50	16.00	156.49	4.02	182.18	654.81	0.19	0.05

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.50	0.75	0.25	ø8/ 5 2 br.	20.11	0.30	2727.35	1.52	21560.50	21560.50	21560.50	7.905
TG	0.75	4.32	3.57	ø8/15 2 br.	6.70	0.30	2772.11	2.50	11801.50	16202.20	11801.50	4.257
TG	4.32	4.57	0.25	ø8/ 5 2 br.	20.11	0.30	2910.86	1.52	21560.50	21560.50	21560.50	7.407
TG	5.07	5.32	0.25	ø8/ 5 2 br.	20.11	0.30	2838.39	1.52	21560.50	21560.50	21560.50	7.596
TG	5.32	9.82	4.50	ø8/15 2 br.	6.70	0.30	2699.64	2.50	11801.50	16202.20	11801.50	4.372
TG	9.82	10.07	0.25	ø8/ 5 2 br.	20.11	0.30	2838.39	1.52	21560.50	21560.50	21560.50	7.596
TG	10.57	10.82	0.25	ø8/ 5 2 br.	20.11	0.30	2891.79	1.52	21560.50	21560.50	21560.50	7.456
TG	10.82	14.52	3.70	ø8/15 2 br.	6.70	0.30	2753.04	2.50	11801.50	16202.20	11801.50	4.287
TG	14.52	14.77	0.25	ø8/ 5 2 br.	20.11	0.30	2713.96	1.52	21560.50	21560.50	21560.50	7.944

Travata n. 301

Nodi: 301 302 303 304 305

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>
3	R	40.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	669.00	6.03	6.03	6.03	6.03	-5160.30	-5525.97	1.071
1.95	1	SLV	1	514.48	6.03	6.03	6.03	6.03	2753.18	5525.97	2.007
6.89	1	SLV	1	20.00	8.04	6.03	8.04	6.03	-6848.93	-7126.47	1.041
7.29	1	SLV	2	640.00	8.04	6.03	8.04	6.03	-6110.39	-7126.47	1.166
11.63	1	SLV	2	206.00	6.03	6.03	6.03	6.03	2296.51	5525.97	2.406
13.49	1	SLV	2	20.00	7.16	6.03	7.16	6.03	-5980.70	-6427.06	1.075
13.89	1	SLV	3	640.00	7.16	6.03	7.16	6.03	-5980.70	-6427.06	1.075
15.44	1	SLV	3	485.00	6.03	6.03	6.03	6.03	2296.51	5525.97	2.406
20.09	1	SLV	3	20.00	8.04	6.03	8.04	6.03	-6110.39	-7126.47	1.166
20.49	1	SLV	4	689.00	8.04	6.03	8.04	6.03	-6848.93	-7126.47	1.041
25.10	1	SLV	4	228.09	6.03	6.03	6.03	6.03	2753.17	5525.97	2.007
26.98	1	SLV	4	40.00	6.03	6.03	6.03	6.03	-5160.31	-5525.97	1.071

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	669.00	6.03	6.03	-1974.19	1492.23	-260.59	46.59
0.40	12	SLE Q	1	669.00	6.03	6.03	-2016.54	1524.24	-266.18	47.59
1.95	10	SLE R	1	514.48	6.03	6.03	1243.23	-164.11	939.72	29.34
1.95	12	SLE Q	1	514.48	6.03	6.03	1224.03	-161.57	925.21	28.88
6.89	10	SLE R	1	20.00	8.04	6.03	-3806.57	2185.14	-530.86	80.66
6.89	12	SLE Q	1	20.00	8.04	6.03	-3760.46	2158.67	-524.43	79.68
7.29	10	SLE R	2	640.00	8.04	6.03	-2754.87	1581.41	-384.19	58.37
7.29	12	SLE Q	2	640.00	8.04	6.03	-2742.50	1574.32	-382.47	58.11
11.63	10	SLE R	2	206.00	6.03	6.03	1120.29	-147.88	846.79	26.44
11.63	12	SLE Q	2	206.00	6.03	6.03	1119.21	-147.74	845.98	26.41
13.49	10	SLE R	2	20.00	7.16	6.03	-2633.09	1688.49	-360.73	58.20
13.49	12	SLE Q	2	20.00	7.16	6.03	-2641.11	1693.63	-361.83	58.38
13.89	10	SLE R	3	640.00	7.16	6.03	-2633.09	1688.49	-360.73	58.20
13.89	12	SLE Q	3	640.00	7.16	6.03	-2641.11	1693.64	-361.83	58.38
15.44	10	SLE R	3	485.00	6.03	6.03	804.16	-106.15	607.84	18.98
15.44	12	SLE Q	3	485.00	6.03	6.03	801.96	-105.86	606.18	18.92
20.09	10	SLE R	3	20.00	8.04	6.03	-2754.86	1581.41	-384.19	58.37
20.09	12	SLE Q	3	20.00	8.04	6.03	-2742.50	1574.31	-382.47	58.11
20.49	10	SLE R	4	689.00	8.04	6.03	-3806.57	2185.14	-530.86	80.66

20.49	12	SLE Q	4	689.00	8.04	6.03	-3760.47	2158.67	-524.43	79.68
25.10	10	SLE R	4	228.09	6.03	6.03	1531.53	-202.16	1157.64	36.14
25.10	12	SLE Q	4	228.09	6.03	6.03	1517.36	-200.29	1146.93	35.81
26.98	10	SLE R	4	40.00	6.03	6.03	-1974.19	1492.23	-260.59	46.59
26.98	12	SLE Q	4	40.00	6.03	6.03	-2016.55	1524.25	-266.18	47.59

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
11	0.40	12	SLE Q	1	3	669.00	-2016.54	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1524.24	0.44	0.12
12	0.40	11	SLE F	1	3	669.00	-2007.17	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1517.16	0.44	0.12
25	1.95	12	SLE Q	1	3	514.48	1224.03	42.00	149.00	0.50	16.00	161.90	6.03	293.69	925.21	0.27	0.07
26	1.95	11	SLE F	1	3	514.48	1228.27	42.00	149.00	0.50	16.00	161.90	6.03	293.69	928.42	0.27	0.07
37	6.89	12	SLE Q	1	3	20.00	-3760.46	42.00	99.33	0.50	16.00	139.94	8.04	281.21	2158.67	0.81	0.19
38	6.89	11	SLE F	1	3	20.00	-3770.67	42.00	99.33	0.50	16.00	139.94	8.04	281.21	2164.53	0.70	0.17
49	7.29	12	SLE Q	2	3	640.00	-2742.50	42.00	99.33	0.50	16.00	139.94	8.04	281.21	1574.32	0.53	0.13
50	7.29	11	SLE F	2	3	640.00	-2745.27	42.00	99.33	0.50	16.00	139.94	8.04	281.21	1575.90	0.46	0.11
63	11.63	12	SLE Q	2	3	206.00	1119.21	42.00	149.00	0.50	16.00	161.90	6.03	293.69	845.98	0.25	0.07
64	11.63	11	SLE F	2	3	206.00	1119.45	42.00	149.00	0.50	16.00	161.90	6.03	293.69	846.16	0.25	0.07
75	13.49	12	SLE Q	2	3	20.00	-2641.11	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1693.63	0.56	0.14
76	13.49	11	SLE F	2	3	20.00	-2639.32	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1692.48	0.49	0.12
87	13.89	12	SLE Q	3	3	640.00	-2641.11	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1693.64	0.56	0.14
88	13.89	11	SLE F	3	3	640.00	-2639.32	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1692.48	0.49	0.12
103	15.44	12	SLE Q	3	3	485.00	801.96	42.00	149.00	0.50	16.00	161.90	6.03	293.69	606.18	0.18	0.05
105	15.44	11	SLE F	3	3	485.00	802.46	42.00	149.00	0.50	16.00	161.90	6.03	293.69	606.55	0.18	0.05
116	20.09	12	SLE Q	3	3	20.00	-2742.50	42.00	99.33	0.50	16.00	139.94	8.04	281.21	1574.31	0.53	0.13
117	20.09	11	SLE F	3	3	20.00	-2745.26	42.00	99.33	0.50	16.00	139.94	8.04	281.21	1575.90	0.46	0.11
128	20.49	12	SLE Q	4	3	689.00	-3760.47	42.00	99.33	0.50	16.00	139.94	8.04	281.21	2158.67	0.81	0.19
129	20.49	11	SLE F	4	3	689.00	-3770.67	42.00	99.33	0.50	16.00	139.94	8.04	281.21	2164.53	0.70	0.17
142	25.10	12	SLE Q	4	3	228.09	1517.36	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1146.93	0.33	0.09
143	25.10	11	SLE F	4	3	228.09	1520.49	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1149.29	0.33	0.09
154	26.98	12	SLE Q	4	3	40.00	-2016.55	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1524.25	0.44	0.12
155	26.98	11	SLE F	4	3	40.00	-2007.18	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1517.16	0.44	0.12

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.40	4631.97	2.08	30620.40	30620.40	30620.40	6.611
TG	0.70	6.59	5.89	ø8/15 2 br.	6.70	0.40	4647.73	2.50	14751.80	27003.60	14751.80	3.174
TG	6.59	6.89	0.30	ø8/ 6 2 br.	16.76	0.40	4902.73	2.08	30620.40	30620.40	30620.40	6.246
TG	7.29	7.59	0.30	ø8/ 6 2 br.	16.76	0.40	4880.12	2.08	30620.40	30620.40	30620.40	6.275
TG	7.59	13.19	5.60	ø8/15 2 br.	6.70	0.40	4625.12	2.50	14751.80	27003.60	14751.80	3.189
TG	13.19	13.49	0.30	ø8/ 6 2 br.	16.76	0.40	4756.23	2.08	30620.40	30620.40	30620.40	6.438
TG	13.89	14.19	0.30	ø8/ 6 2 br.	16.76	0.40	4756.23	2.08	30620.40	30620.40	30620.40	6.438
TG	14.19	19.79	5.60	ø8/15 2 br.	6.70	0.40	4625.12	2.50	14751.80	27003.60	14751.80	3.189
TG	19.79	20.09	0.30	ø8/ 6 2 br.	16.76	0.40	4880.12	2.08	30620.40	30620.40	30620.40	6.275
TG	20.49	20.79	0.30	ø8/ 6 2 br.	16.76	0.40	4902.73	2.08	30620.40	30620.40	30620.40	6.246
TG	20.79	26.68	5.89	ø8/15 2 br.	6.70	0.40	4647.73	2.50	14751.80	27003.60	14751.80	3.174
TG	26.68	26.98	0.30	ø8/ 6 2 br.	16.76	0.40	4631.97	2.08	30620.40	30620.40	30620.40	6.611

Travata n. 302

Nodi: 306 307 308 309 310

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>
3	R	40.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	40.00	6.03	6.03	6.03	6.03	-3933.26	-5525.97	1.405
6.89	1	SLV	1	689.00	6.03	6.03	6.03	6.03	-4975.15	-5525.97	1.111
7.29	1	SLV	2	20.00	6.03	6.03	6.03	6.03	-4403.79	-5525.97	1.255
13.28	1	SLV	2	618.65	6.03	6.03	6.03	6.03	-4199.21	-5525.97	1.316
13.49	1	SLV	2	640.00	6.03	6.03	6.03	6.03	-4199.21	-5525.97	1.316
13.89	1	SLV	3	20.00	6.03	6.03	6.03	6.03	-4199.21	-5525.97	1.316
20.09	1	SLV	3	640.00	6.03	6.03	6.03	6.03	-4403.79	-5525.97	1.255
20.49	1	SLV	4	20.00	6.03	6.03	6.03	6.03	-4975.15	-5525.97	1.111
26.98	1	SLV	4	669.00	6.03	6.03	6.03	6.03	-3933.26	-5525.97	1.405

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	40.00	6.03	6.03	-392.20	296.46	-51.77	9.26
0.40	12	SLE Q	1	40.00	6.03	6.03	-420.83	318.09	-55.55	9.93
6.89	10	SLE R	1	689.00	6.03	6.03	-1748.83	1321.89	-230.84	41.27
6.89	12	SLE Q	1	689.00	6.03	6.03	-1699.99	1284.97	-224.40	40.12
7.29	10	SLE R	2	20.00	6.03	6.03	-1074.48	812.17	-141.83	25.36
7.29	12	SLE Q	2	20.00	6.03	6.03	-1067.68	807.03	-140.93	25.19
13.28	10	SLE R	2	618.65	6.03	6.03	-859.39	649.59	-113.44	20.28
13.28	12	SLE Q	2	618.65	6.03	6.03	-864.93	653.78	-114.17	20.41
13.49	10	SLE R	2	640.00	6.03	6.03	-859.39	649.59	-113.44	20.28

13.49	12	SLE Q	2	640.00	6.03	6.03	-864.93	653.78	-114.17	20.41
13.89	10	SLE R	3	20.00	6.03	6.03	-859.39	649.59	-113.44	20.28
13.89	12	SLE Q	3	20.00	6.03	6.03	-864.93	653.78	-114.17	20.41
20.09	10	SLE R	3	640.00	6.03	6.03	-1074.48	812.17	-141.83	25.36
20.09	12	SLE Q	3	640.00	6.03	6.03	-1067.68	807.03	-140.93	25.19
20.49	10	SLE R	4	20.00	6.03	6.03	-1748.83	1321.89	-230.84	41.27
20.49	12	SLE Q	4	20.00	6.03	6.03	-1699.99	1284.97	-224.40	40.12
26.98	10	SLE R	4	669.00	6.03	6.03	-392.20	296.46	-51.77	9.26
26.98	12	SLE Q	4	669.00	6.03	6.03	-420.83	318.09	-55.55	9.93

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>
11	0.40	12	SLE Q	1	3	40.00	-420.83	42.00	149.00	0.50	16.00	161.90	6.03	293.69	318.09	0.09	0.03
12	0.40	11	SLE F	1	3	40.00	-414.26	42.00	149.00	0.50	16.00	161.90	6.03	293.69	313.13	0.09	0.03
23	6.89	12	SLE Q	1	3	689.00	-1699.99	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1284.97	0.37	0.10
24	6.89	11	SLE F	1	3	689.00	-1711.05	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1293.33	0.38	0.10
37	7.29	12	SLE Q	2	3	20.00	-1067.68	42.00	149.00	0.50	16.00	161.90	6.03	293.69	807.03	0.24	0.06
38	7.29	11	SLE F	2	3	20.00	-1069.24	42.00	149.00	0.50	16.00	161.90	6.03	293.69	808.21	0.24	0.06
49	13.28	12	SLE Q	2	3	618.65	-864.93	42.00	149.00	0.50	16.00	161.90	6.03	293.69	653.78	0.19	0.05
50	13.28	11	SLE F	2	3	618.65	-863.67	42.00	149.00	0.50	16.00	161.90	6.03	293.69	652.83	0.19	0.05
61	13.49	12	SLE Q	2	3	640.00	-864.93	42.00	149.00	0.50	16.00	161.90	6.03	293.69	653.78	0.19	0.05
62	13.49	11	SLE F	2	3	640.00	-863.67	42.00	149.00	0.50	16.00	161.90	6.03	293.69	652.83	0.19	0.05
73	13.89	12	SLE Q	3	3	20.00	-864.93	42.00	149.00	0.50	16.00	161.90	6.03	293.69	653.78	0.19	0.05
74	13.89	11	SLE F	3	3	20.00	-863.67	42.00	149.00	0.50	16.00	161.90	6.03	293.69	652.82	0.19	0.05
87	20.09	12	SLE Q	3	3	640.00	-1067.68	42.00	149.00	0.50	16.00	161.90	6.03	293.69	807.03	0.24	0.06
88	20.09	11	SLE F	3	3	640.00	-1069.24	42.00	149.00	0.50	16.00	161.90	6.03	293.69	808.21	0.24	0.06
99	20.49	12	SLE Q	4	3	20.00	-1699.99	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1284.97	0.37	0.10
100	20.49	11	SLE F	4	3	20.00	-1711.05	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1293.33	0.38	0.10
111	26.98	12	SLE Q	4	3	669.00	-420.83	42.00	149.00	0.50	16.00	161.90	6.03	293.69	318.09	0.09	0.03
112	26.98	11	SLE F	4	3	669.00	-414.26	42.00	149.00	0.50	16.00	161.90	6.03	293.69	313.13	0.09	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.40	2846.71	2.08	30620.40	30620.40	30620.40	10.756
TG	0.70	6.59	5.89	ø8/15 2 br.	6.70	0.40	2756.71	2.50	14751.80	27003.60	14751.80	5.351
TG	6.59	6.89	0.30	ø8/ 6 2 br.	16.76	0.40	2846.71	2.08	30620.40	30620.40	30620.40	10.756
TG	7.29	7.59	0.30	ø8/ 6 2 br.	16.76	0.40	2890.83	2.08	30620.40	30620.40	30620.40	10.592
TG	7.59	13.19	5.60	ø8/15 2 br.	6.70	0.40	2800.83	2.50	14751.80	27003.60	14751.80	5.267
TG	13.19	13.49	0.30	ø8/ 6 2 br.	16.76	0.40	2890.83	2.08	30620.40	30620.40	30620.40	10.592
TG	13.89	14.19	0.30	ø8/ 6 2 br.	16.76	0.40	2890.83	2.08	30620.40	30620.40	30620.40	10.592
TG	14.19	19.79	5.60	ø8/15 2 br.	6.70	0.40	2800.83	2.50	14751.80	27003.60	14751.80	5.267
TG	19.79	20.09	0.30	ø8/ 6 2 br.	16.76	0.40	2890.83	2.08	30620.40	30620.40	30620.40	10.592
TG	20.49	20.79	0.30	ø8/ 6 2 br.	16.76	0.40	2846.71	2.08	30620.40	30620.40	30620.40	10.756
TG	20.79	26.68	5.89	ø8/15 2 br.	6.70	0.40	2756.71	2.50	14751.80	27003.60	14751.80	5.351
TG	26.68	26.98	0.30	ø8/ 6 2 br.	16.76	0.40	2846.71	2.08	30620.40	30620.40	30620.40	10.756

Travata n. 303

Nodi: 311 312 313 314 315

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>
3	R	40.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	669.00	6.03	6.03	6.03	6.03	-4042.05	-5525.97	1.367
6.89	1	SLV	1	20.00	6.03	6.03	6.03	6.03	-5057.47	-5525.97	1.093
7.29	1	SLV	2	640.00	6.03	6.03	6.03	6.03	-4461.47	-5525.97	1.239
13.33	1	SLV	2	36.26	6.03	6.03	6.03	6.03	-4252.34	-5525.97	1.300
13.49	1	SLV	2	20.00	6.03	6.03	6.03	6.03	-4252.34	-5525.97	1.300
13.89	1	SLV	3	640.00	6.03	6.03	6.03	6.03	-4252.34	-5525.97	1.300
20.09	1	SLV	3	20.00	6.03	6.03	6.03	6.03	-4461.47	-5525.97	1.239
20.49	1	SLV	4	689.00	6.03	6.03	6.03	6.03	-5057.47	-5525.97	1.093
26.98	1	SLV	4	40.00	6.03	6.03	6.03	6.03	-4042.05	-5525.97	1.367

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	669.00	6.03	6.03	-402.50	304.24	-53.13	9.50
0.40	12	SLE Q	1	669.00	6.03	6.03	-429.65	324.76	-56.71	10.14
6.89	10	SLE R	1	20.00	6.03	6.03	-1752.45	1324.63	-231.32	41.35
6.89	12	SLE Q	1	20.00	6.03	6.03	-1703.82	1287.87	-224.90	40.21
7.29	10	SLE R	2	640.00	6.03	6.03	-1079.06	815.63	-142.44	25.46
7.29	12	SLE Q	2	640.00	6.03	6.03	-1072.84	810.93	-141.62	25.32
13.33	10	SLE R	2	36.26	6.03	6.03	-856.34	647.28	-113.04	20.21
13.33	12	SLE Q	2	36.26	6.03	6.03	-861.60	651.25	-113.73	20.33
13.49	10	SLE R	2	20.00	6.03	6.03	-856.34	647.28	-113.04	20.21
13.49	12	SLE Q	2	20.00	6.03	6.03	-861.60	651.25	-113.73	20.33
13.89	10	SLE R	3	640.00	6.03	6.03	-856.34	647.28	-113.04	20.21

13.89	12	SLE Q	3	640.00	6.03	6.03	-861.60	651.25	-113.73	20.33
20.09	10	SLE R	3	20.00	6.03	6.03	-1079.06	815.63	-142.44	25.46
20.09	12	SLE Q	3	20.00	6.03	6.03	-1072.84	810.93	-141.62	25.32
20.49	10	SLE R	4	689.00	6.03	6.03	-1752.45	1324.63	-231.32	41.35
20.49	12	SLE Q	4	689.00	6.03	6.03	-1703.82	1287.87	-224.90	40.21
26.98	10	SLE R	4	40.00	6.03	6.03	-402.50	304.24	-53.13	9.50
26.98	12	SLE Q	4	40.00	6.03	6.03	-429.65	324.76	-56.71	10.14

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>
11	0.40	12	SLE Q	1	3	669.00	-429.65	42.00	149.00	0.50	16.00	161.90	6.03	293.69	324.76	0.09	0.03
12	0.40	11	SLE F	1	3	669.00	-423.41	42.00	149.00	0.50	16.00	161.90	6.03	293.69	320.05	0.09	0.03
23	6.89	12	SLE Q	1	3	20.00	-1703.82	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1287.87	0.38	0.10
24	6.89	11	SLE F	1	3	20.00	-1714.84	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1296.20	0.38	0.10
37	7.29	12	SLE Q	2	3	640.00	-1072.84	42.00	149.00	0.50	16.00	161.90	6.03	293.69	810.93	0.24	0.07
38	7.29	11	SLE F	2	3	640.00	-1074.27	42.00	149.00	0.50	16.00	161.90	6.03	293.69	812.01	0.24	0.07
49	13.33	12	SLE Q	2	3	36.26	-861.60	42.00	149.00	0.50	16.00	161.90	6.03	293.69	651.25	0.19	0.05
50	13.33	11	SLE F	2	3	36.26	-860.40	42.00	149.00	0.50	16.00	161.90	6.03	293.69	650.35	0.19	0.05
61	13.49	12	SLE Q	2	3	20.00	-861.60	42.00	149.00	0.50	16.00	161.90	6.03	293.69	651.25	0.19	0.05
62	13.49	11	SLE F	2	3	20.00	-860.40	42.00	149.00	0.50	16.00	161.90	6.03	293.69	650.35	0.19	0.05
73	13.89	12	SLE Q	3	3	640.00	-861.60	42.00	149.00	0.50	16.00	161.90	6.03	293.69	651.25	0.19	0.05
74	13.89	11	SLE F	3	3	640.00	-860.40	42.00	149.00	0.50	16.00	161.90	6.03	293.69	650.35	0.19	0.05
87	20.09	12	SLE Q	3	3	20.00	-1072.84	42.00	149.00	0.50	16.00	161.90	6.03	293.69	810.93	0.24	0.07
88	20.09	11	SLE F	3	3	20.00	-1074.27	42.00	149.00	0.50	16.00	161.90	6.03	293.69	812.01	0.24	0.07
99	20.49	12	SLE Q	4	3	689.00	-1703.82	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1287.87	0.38	0.10
100	20.49	11	SLE F	4	3	689.00	-1714.84	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1296.20	0.38	0.10
111	26.98	12	SLE Q	4	3	40.00	-429.65	42.00	149.00	0.50	16.00	161.90	6.03	293.69	324.76	0.09	0.03
112	26.98	11	SLE F	4	3	40.00	-423.41	42.00	149.00	0.50	16.00	161.90	6.03	293.69	320.05	0.09	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.40	2846.71	2.08	30620.40	30620.40	30620.40	10.756
TG	0.70	6.59	5.89	ø8/15 2 br.	6.70	0.40	2756.71	2.50	14751.80	27003.60	14751.80	5.351
TG	6.59	6.89	0.30	ø8/ 6 2 br.	16.76	0.40	2846.71	2.08	30620.40	30620.40	30620.40	10.756
TG	7.29	7.59	0.30	ø8/ 6 2 br.	16.76	0.40	2890.83	2.08	30620.40	30620.40	30620.40	10.592
TG	7.59	13.19	5.60	ø8/15 2 br.	6.70	0.40	2800.83	2.50	14751.80	27003.60	14751.80	5.267
TG	13.19	13.49	0.30	ø8/ 6 2 br.	16.76	0.40	2890.83	2.08	30620.40	30620.40	30620.40	10.592
TG	13.89	14.19	0.30	ø8/ 6 2 br.	16.76	0.40	2890.83	2.08	30620.40	30620.40	30620.40	10.592
TG	14.19	19.79	5.60	ø8/15 2 br.	6.70	0.40	2800.83	2.50	14751.80	27003.60	14751.80	5.267
TG	19.79	20.09	0.30	ø8/ 6 2 br.	16.76	0.40	2890.83	2.08	30620.40	30620.40	30620.40	10.592
TG	20.49	20.79	0.30	ø8/ 6 2 br.	16.76	0.40	2846.71	2.08	30620.40	30620.40	30620.40	10.756
TG	20.79	26.68	5.89	ø8/15 2 br.	6.70	0.40	2756.71	2.50	14751.80	27003.60	14751.80	5.351
TG	26.68	26.98	0.30	ø8/ 6 2 br.	16.76	0.40	2846.71	2.08	30620.40	30620.40	30620.40	10.756

Travata n. 304

Nodi: 316 317 318 319 320

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>
3	R	40.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.40	1	SLV	1	40.00	7.16	6.03	7.16	6.03	-5863.65	-6427.06	1.096
1.95	1	SLV	1	194.52	6.03	6.03	6.03	6.03	3020.38	5525.97	1.830
6.89	1	SLV	1	689.00	8.04	6.03	8.04	6.03	-7107.83	-7126.47	1.003
7.29	1	SLV	2	20.00	8.04	6.03	8.04	6.03	-6300.25	-7126.47	1.131
11.48	1	SLV	2	438.94	6.03	6.03	6.03	6.03	2376.04	5525.97	2.326
13.49	1	SLV	2	640.00	7.16	6.03	7.16	6.03	-6070.89	-6427.06	1.059
13.89	1	SLV	3	20.00	7.16	6.03	7.16	6.03	-6070.89	-6427.06	1.059
15.44	1	SLV	3	175.00	6.03	6.03	6.03	6.03	2376.04	5525.97	2.326
20.09	1	SLV	3	640.00	8.04	6.03	8.04	6.03	-6300.25	-7126.47	1.131
20.49	1	SLV	4	20.00	8.04	6.03	8.04	6.03	-7107.83	-7126.47	1.003
25.13	1	SLV	4	483.57	6.03	6.03	6.03	6.03	3020.38	5525.97	1.830
26.98	1	SLV	4	669.00	7.16	6.03	7.16	6.03	-5863.65	-6427.06	1.096

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.40	10	SLE R	1	40.00	7.16	6.03	-2129.39	1365.49	-291.73	47.07
0.40	12	SLE Q	1	40.00	7.16	6.03	-2155.07	1381.95	-295.24	47.64
1.95	10	SLE R	1	194.52	6.03	6.03	1151.43	-151.99	870.33	27.17
1.95	12	SLE Q	1	194.52	6.03	6.03	1144.30	-151.05	864.94	27.00
6.89	10	SLE R	1	689.00	8.04	6.03	-3706.84	2127.89	-516.96	78.54
6.89	12	SLE Q	1	689.00	8.04	6.03	-3664.32	2103.48	-511.02	77.64
7.29	10	SLE R	2	20.00	8.04	6.03	-2829.32	1624.15	-394.58	59.95
7.29	12	SLE Q	2	20.00	8.04	6.03	-2823.58	1620.86	-393.78	59.83
11.48	10	SLE R	2	438.94	6.03	6.03	1239.12	-163.56	936.61	29.24
11.48	12	SLE Q	2	438.94	6.03	6.03	1238.11	-163.43	935.85	29.22

13.49	10	SLE R	2	640.00	7.16	6.03	-2592.74	1662.62	-355.20	57.31
13.49	12	SLE Q	2	640.00	7.16	6.03	-2597.55	1665.70	-355.86	57.42
13.89	10	SLE R	3	20.00	7.16	6.03	-2592.74	1662.62	-355.20	57.31
13.89	12	SLE Q	3	20.00	7.16	6.03	-2597.55	1665.70	-355.86	57.42
15.44	10	SLE R	3	175.00	6.03	6.03	811.25	-107.08	613.20	19.14
15.44	12	SLE Q	3	175.00	6.03	6.03	809.38	-106.84	611.79	19.10
20.09	10	SLE R	3	640.00	8.04	6.03	-2829.32	1624.15	-394.58	59.95
20.09	12	SLE Q	3	640.00	8.04	6.03	-2823.58	1620.86	-393.78	59.83
20.49	10	SLE R	4	20.00	8.04	6.03	-3706.83	2127.88	-516.95	78.54
20.49	12	SLE Q	4	20.00	8.04	6.03	-3664.31	2103.47	-511.02	77.64
25.13	10	SLE R	4	483.57	6.03	6.03	1434.04	-189.29	1083.95	33.84
25.13	12	SLE Q	4	483.57	6.03	6.03	1430.48	-188.82	1081.26	33.76
26.98	10	SLE R	4	669.00	7.16	6.03	-2129.39	1365.49	-291.73	47.07
26.98	12	SLE Q	4	669.00	7.16	6.03	-2155.06	1381.95	-295.24	47.64

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>
11	0.40	12	SLE Q	1	3	40.00	-2155.07	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1381.95	0.41	0.10
12	0.40	11	SLE F	1	3	40.00	-2149.41	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1378.33	0.40	0.10
25	1.95	12	SLE Q	1	3	194.52	1144.30	42.00	149.00	0.50	16.00	161.90	6.03	293.69	864.94	0.25	0.07
26	1.95	11	SLE F	1	3	194.52	1145.85	42.00	149.00	0.50	16.00	161.90	6.03	293.69	866.12	0.25	0.07
39	6.89	12	SLE Q	1	3	689.00	-3664.32	42.00	99.33	0.50	16.00	139.94	8.04	281.21	2103.48	0.79	0.19
40	6.89	11	SLE F	1	3	689.00	-3673.72	42.00	99.33	0.50	16.00	139.94	8.04	281.21	2108.87	0.67	0.16
51	7.29	12	SLE Q	2	3	20.00	-2823.58	42.00	99.33	0.50	16.00	139.94	8.04	281.21	1620.86	0.55	0.13
52	7.29	11	SLE F	2	3	20.00	-2824.87	42.00	99.33	0.50	16.00	139.94	8.04	281.21	1621.60	0.47	0.11
65	11.48	12	SLE Q	2	3	438.94	1238.11	42.00	149.00	0.50	16.00	161.90	6.03	293.69	935.85	0.27	0.08
66	11.48	11	SLE F	2	3	438.94	1238.34	42.00	149.00	0.50	16.00	161.90	6.03	293.69	936.02	0.27	0.08
77	13.49	12	SLE Q	2	3	640.00	-2597.55	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1665.70	0.54	0.13
78	13.49	11	SLE F	2	3	640.00	-2596.47	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1665.01	0.48	0.12
89	13.89	12	SLE Q	3	3	20.00	-2597.55	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1665.70	0.54	0.13
90	13.89	11	SLE F	3	3	20.00	-2596.47	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1665.01	0.48	0.12
103	15.44	12	SLE Q	3	3	175.00	809.38	42.00	149.00	0.50	16.00	161.90	6.03	293.69	611.79	0.18	0.05
104	15.44	11	SLE F	3	3	175.00	809.80	42.00	149.00	0.50	16.00	161.90	6.03	293.69	612.11	0.18	0.05
115	20.09	12	SLE Q	3	3	640.00	-2823.58	42.00	99.33	0.50	16.00	139.94	8.04	281.21	1620.86	0.55	0.13
116	20.09	11	SLE F	3	3	640.00	-2824.87	42.00	99.33	0.50	16.00	139.94	8.04	281.21	1621.60	0.47	0.11
129	20.49	12	SLE Q	4	3	20.00	-3664.31	42.00	99.33	0.50	16.00	139.94	8.04	281.21	2103.47	0.79	0.19
130	20.49	11	SLE F	4	3	20.00	-3673.71	42.00	99.33	0.50	16.00	139.94	8.04	281.21	2108.87	0.67	0.16
141	25.13	12	SLE Q	4	3	483.57	1430.48	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1081.26	0.31	0.09
142	25.13	11	SLE F	4	3	483.57	1431.25	42.00	149.00	0.50	16.00	161.90	6.03	293.69	1081.84	0.32	0.09
153	26.98	12	SLE Q	4	3	669.00	-2155.06	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1381.95	0.41	0.10
154	26.98	11	SLE F	4	3	669.00	-2149.41	42.50	99.33	0.50	15.20	145.77	7.16	286.39	1378.33	0.40	0.10

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
TG	0.40	0.70	0.30	ø8/ 6 2 br.	16.76	0.40	4784.70	2.08	30620.40	30620.40	30620.40	6.400
TG	0.70	6.59	5.89	ø8/15 2 br.	6.70	0.40	4648.05	2.50	14751.80	27003.60	14751.80	3.174
TG	6.59	6.89	0.30	ø8/ 6 2 br.	16.76	0.40	4903.05	2.08	30620.40	30620.40	30620.40	6.245
TG	7.29	7.59	0.30	ø8/ 6 2 br.	16.76	0.40	4880.12	2.08	30620.40	30620.40	30620.40	6.275
TG	7.59	13.19	5.60	ø8/15 2 br.	6.70	0.40	4625.12	2.50	14751.80	27003.60	14751.80	3.189
TG	13.19	13.49	0.30	ø8/ 6 2 br.	16.76	0.40	4756.23	2.08	30620.40	30620.40	30620.40	6.438
TG	13.89	14.19	0.30	ø8/ 6 2 br.	16.76	0.40	4756.23	2.08	30620.40	30620.40	30620.40	6.438
TG	14.19	19.79	5.60	ø8/15 2 br.	6.70	0.40	4625.12	2.50	14751.80	27003.60	14751.80	3.189
TG	19.79	20.09	0.30	ø8/ 6 2 br.	16.76	0.40	4880.12	2.08	30620.40	30620.40	30620.40	6.275
TG	20.49	20.79	0.30	ø8/ 6 2 br.	16.76	0.40	4903.05	2.08	30620.40	30620.40	30620.40	6.245
TG	20.79	26.68	5.89	ø8/15 2 br.	6.70	0.40	4648.05	2.50	14751.80	27003.60	14751.80	3.174
TG	26.68	26.98	0.30	ø8/ 6 2 br.	16.76	0.40	4784.70	2.08	30620.40	30620.40	30620.40	6.400

Travata n. 305

Nodi: 301 306 311 316

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	50.00	8.04	6.03	8.04	6.03	-7140.98	-7306.47	1.023
2.18	9	SLU	1	217.75	8.04	6.03	8.04	6.03	5143.77	5704.11	1.109
4.57	5	SLV	1	457.00	14.07	6.03	14.07	6.03	-9565.27	-12066.20	1.261
5.07	9	SLU	2	0.00	14.07	6.03	14.07	6.03	-11775.80	-12066.20	1.025
7.39	9	SLU	2	231.65	6.03	12.06	6.03	12.06	6515.02	10497.60	1.611
10.07	9	SLU	2	500.00	15.21	6.03	15.21	6.03	-12218.20	-12938.90	1.059
10.57	5	SLV	3	50.00	15.21	6.03	15.21	6.03	-10126.40	-12938.90	1.278
12.67	9	SLU	3	260.00	9.17	6.03	9.17	6.03	5466.95	5708.29	1.044
14.77	5	SLV	3	470.00	9.17	6.03	9.17	6.03	-7371.53	-8209.09	1.114

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>

0.50	10	SLE R	1	50.00	8.04	6.03	-3829.90	2173.84	-428.02	71.90
0.50	12	SLE Q	1	50.00	8.04	6.03	-3159.68	1793.43	-353.12	59.32
2.18	10	SLE R	1	217.75	8.04	6.03	3643.17	-352.17	2729.39	74.84
2.18	12	SLE Q	1	217.75	8.04	6.03	3144.82	-304.00	2356.04	64.60
4.57	10	SLE R	1	457.00	14.07	6.03	-6470.62	2154.73	-769.95	100.08
4.57	12	SLE Q	1	457.00	14.07	6.03	-5706.42	1900.25	-679.02	88.26
5.07	10	SLE R	2	0.00	14.07	6.03	-8352.42	2781.38	-993.87	129.18
5.07	12	SLE Q	2	0.00	14.07	6.03	-7174.40	2389.09	-853.70	110.96
7.39	10	SLE R	2	231.65	6.03	12.06	4615.62	-544.89	1779.59	75.07
7.39	12	SLE Q	2	231.65	6.03	12.06	3964.80	-468.06	1528.66	64.48
10.07	10	SLE R	2	500.00	15.21	6.03	-8642.62	2674.43	-1030.55	130.45
10.07	12	SLE Q	2	500.00	15.21	6.03	-7459.05	2308.18	-889.42	112.59
10.57	10	SLE R	3	50.00	15.21	6.03	-6987.35	2162.22	-833.17	105.47
10.57	12	SLE Q	3	50.00	15.21	6.03	-6172.80	1910.16	-736.05	93.17
12.67	10	SLE R	3	260.00	9.17	6.03	3871.32	-362.60	2904.01	78.62
12.67	12	SLE Q	3	260.00	9.17	6.03	3343.24	-313.13	2507.88	67.89
14.77	10	SLE R	3	470.00	9.17	6.03	-4010.14	2007.35	-459.28	71.73
14.77	12	SLE Q	3	470.00	9.17	6.03	-3294.19	1648.97	-377.28	58.92

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>
11	0.50	12	SLE Q	1	4	50.00	-3159.68	42.00	132.67	0.50	16.00	155.98	8.04	361.83	1793.43	0.58	0.15
12	0.50	11	SLE F	1	4	50.00	-3287.66	42.00	132.67	0.50	16.00	155.98	8.04	361.83	1866.06	0.54	0.14
23	2.18	12	SLE Q	1	4	217.75	3144.82	42.00	197.00	0.50	16.00	184.42	6.03	378.57	2356.04	0.75	0.23
24	2.18	11	SLE F	1	4	217.75	3237.75	42.00	197.00	0.50	16.00	184.42	6.03	378.57	2425.65	0.71	0.22
35	4.57	12	SLE Q	1	4	457.00	-5706.42	42.00	66.33	0.50	16.00	121.39	14.07	328.91	1900.25	0.75	0.16
36	4.57	11	SLE F	1	4	457.00	-5847.75	42.00	66.33	0.50	16.00	121.39	14.07	328.91	1947.32	0.69	0.14
47	5.07	12	SLE Q	2	4	0.00	-7174.40	42.00	66.33	0.50	16.00	121.39	14.07	328.91	2389.09	0.99	0.20
48	5.07	11	SLE F	2	4	0.00	-7395.48	42.00	66.33	0.50	16.00	121.39	14.07	328.91	2462.71	0.94	0.19
59	7.39	12	SLE Q	2	4	231.65	3964.80	42.00	78.80	0.50	16.00	128.90	12.06	338.53	1528.66	0.55	0.12
60	7.39	11	SLE F	2	4	231.65	4086.61	42.00	78.80	0.50	16.00	128.90	12.06	338.53	1575.63	0.47	0.10
71	10.07	12	SLE Q	2	4	500.00	-7459.05	41.71	66.33	0.50	16.69	118.99	15.21	323.95	2308.18	0.96	0.19
72	10.07	11	SLE F	2	4	500.00	-7681.16	41.71	66.33	0.50	16.69	118.99	15.21	323.95	2376.91	0.92	0.19
83	10.57	12	SLE Q	3	4	50.00	-6172.80	41.71	66.33	0.50	16.69	118.99	15.21	323.95	1910.16	0.77	0.16
84	10.57	11	SLE F	3	4	50.00	-6323.73	41.71	66.33	0.50	16.69	118.99	15.21	323.95	1956.86	0.71	0.14
95	12.67	12	SLE Q	3	4	260.00	3343.24	42.00	197.00	0.50	16.00	184.71	6.03	379.67	2507.88	0.82	0.26
96	12.67	11	SLE F	3	4	260.00	3441.69	42.00	197.00	0.50	16.00	184.71	6.03	379.67	2581.73	0.75	0.24
107	14.77	12	SLE Q	3	4	470.00	-3294.19	41.50	132.00	0.50	17.18	149.40	9.17	354.60	1648.97	0.54	0.14
108	14.77	11	SLE F	3	4	470.00	-3430.61	41.50	132.00	0.50	17.18	149.40	9.17	354.60	1717.26	0.50	0.13

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	10748.50	2.37	35020.20	35020.20	35020.20	3.258
9 SLU	0.80	4.27	3.47	ø10/20 2 br.	7.85	0.50	10869.10	2.50	17287.30	33754.50	17287.30	1.591
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.50	12589.30	2.37	35020.20	35020.20	35020.20	2.782
9 SLU	5.07	5.37	0.30	ø8/ 6 2 br.	16.76	0.50	14246.80	2.37	35020.20	35020.20	35020.20	2.458
9 SLU	5.37	9.77	4.40	ø10/20 2 br.	7.85	0.50	12703.50	2.50	17287.30	33754.50	17287.30	1.361
9 SLU	9.77	10.07	0.30	ø8/ 6 2 br.	16.76	0.50	14423.70	2.37	35020.20	35020.20	35020.20	2.428
9 SLU	10.57	10.87	0.30	ø8/ 6 2 br.	16.76	0.50	13055.40	2.37	35020.20	35020.20	35020.20	2.682
9 SLU	10.87	14.47	3.60	ø10/20 2 br.	7.85	0.50	11335.20	2.50	17287.30	33754.50	17287.30	1.525
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.50	11027.80	2.37	35020.20	35020.20	35020.20	3.176

Travata n. 306

Nodi: 302 307 312 317

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	50.00	12.57	12.57	12.57	12.57	-10412.10	-10886.90	1.046
2.13	9	SLU	1	212.80	12.57	12.57	12.57	12.57	10163.60	10886.90	1.071
4.57	9	SLU	1	457.00	28.27	21.99	28.27	21.99	-16177.60	-23099.30	1.428
5.07	9	SLU	2	0.00	28.27	21.99	28.27	21.99	-22291.00	-23099.30	1.036
7.31	9	SLU	2	224.33	15.71	25.13	15.71	25.13	11604.60	20613.10	1.776
10.07	9	SLU	2	500.00	30.29	21.99	30.29	21.99	-22974.50	-24625.80	1.072
10.57	9	SLU	3	50.00	30.29	21.99	30.29	21.99	-17315.40	-24625.80	1.422
12.67	9	SLU	3	260.00	12.57	12.57	12.57	12.57	10840.10	10886.90	1.004
14.77	5	SLV	3	470.00	12.57	12.57	12.57	12.57	-10666.70	-10886.90	1.021

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	50.00	12.57	12.57	-6758.44	2514.83	-685.53	99.04
0.50	12	SLE Q	1	50.00	12.57	12.57	-5638.72	2098.18	-571.95	82.63
2.13	10	SLE R	1	212.80	12.57	12.57	7172.32	-727.51	2668.83	105.11
2.13	12	SLE Q	1	212.80	12.57	12.57	6137.17	-622.51	2283.65	89.94
4.57	10	SLE R	1	457.00	28.27	21.99	-11408.70	1952.38	-984.91	114.61

4.57	12	SLE Q	1	457.00	28.27	21.99	-9869.74	1689.01	-852.05	99.15
5.07	10	SLE R	2	0.00	28.27	21.99	-15743.10	2694.12	-1359.09	158.16
5.07	12	SLE Q	2	0.00	28.27	21.99	-13436.40	2299.37	-1159.96	134.99
7.31	10	SLE R	2	224.33	15.71	25.13	8191.06	-793.16	1570.64	92.27
7.31	12	SLE Q	2	224.33	15.71	25.13	6978.74	-675.77	1338.17	78.62
10.07	10	SLE R	2	500.00	30.29	21.99	-16201.40	2595.70	-1396.91	159.67
10.07	12	SLE Q	2	500.00	30.29	21.99	-13867.40	2221.75	-1195.66	136.67
10.57	10	SLE R	3	50.00	30.29	21.99	-12202.40	1955.00	-1052.10	120.26
10.57	12	SLE Q	3	50.00	30.29	21.99	-10561.10	1692.04	-910.59	104.08
12.67	10	SLE R	3	260.00	12.57	12.57	7651.72	-776.14	2847.22	112.13
12.67	12	SLE Q	3	260.00	12.57	12.57	6543.11	-663.69	2434.70	95.89
14.77	10	SLE R	3	470.00	12.57	12.57	-7127.86	2652.29	-723.00	104.45
14.77	12	SLE Q	3	470.00	12.57	12.57	-5948.65	2213.51	-603.39	87.17

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>
13	0.50	12	SLE Q	1	4	50.00	-5638.72	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2098.18	0.83	0.19
14	0.50	11	SLE F	1	4	50.00	-5854.85	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2178.60	0.77	0.18
25	2.13	12	SLE Q	1	4	212.80	6137.17	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2283.65	0.92	0.21
26	2.13	11	SLE F	1	4	212.80	6328.06	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2354.68	0.85	0.20
37	4.57	12	SLE Q	1	4	457.00	-9869.74	40.00	49.25	0.50	20.00	101.57	28.27	304.90	1689.01	0.72	0.12
38	4.57	11	SLE F	1	4	457.00	-10157.30	40.00	49.25	0.50	20.00	101.57	28.27	304.90	1738.22	0.70	0.12
49	5.07	12	SLE Q	2	4	0.00	-13436.40	40.00	49.25	0.50	20.00	101.57	28.27	304.90	2299.37	1.02	0.18
50	5.07	11	SLE F	2	4	0.00	-13868.00	40.00	49.25	0.50	20.00	101.57	28.27	304.90	2373.24	1.01	0.17
61	7.31	12	SLE Q	2	4	224.33	6978.74	40.00	55.71	0.50	20.00	104.26	25.13	304.82	1338.17	0.54	0.10
62	7.31	11	SLE F	2	4	224.33	7207.19	40.00	55.71	0.50	20.00	104.26	25.13	304.82	1381.98	0.51	0.09
73	10.07	12	SLE Q	2	4	500.00	-13867.40	40.20	43.78	0.50	19.67	99.89	30.29	300.04	2221.75	0.99	0.17
74	10.07	11	SLE F	2	4	500.00	-14303.80	40.20	43.78	0.50	19.67	99.89	30.29	300.04	2291.67	0.97	0.17
85	10.57	12	SLE Q	3	4	50.00	-10561.10	40.20	43.78	0.50	19.67	99.89	30.29	300.04	1692.04	0.73	0.12
86	10.57	11	SLE F	3	4	50.00	-10867.90	40.20	43.78	0.50	19.67	99.89	30.29	300.04	1741.19	0.71	0.12
97	12.67	12	SLE Q	3	4	260.00	6543.11	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2434.70	0.99	0.23
98	12.67	11	SLE F	3	4	260.00	6747.52	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2510.77	0.93	0.21
111	14.77	12	SLE Q	3	4	470.00	-5948.65	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2213.51	0.88	0.20
112	14.77	11	SLE F	3	4	470.00	-6176.27	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2298.20	0.83	0.19

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	19982.80	2.37	35020.20	35020.20	35020.20	1.753
9 SLU	0.80	4.27	3.47	ø10/15 2 br.	10.47	0.50	20047.40	2.50	23049.70	33754.50	23049.70	1.150
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.50	23232.80	2.37	35020.20	35020.20	35020.20	1.507
9 SLU	5.07	5.75	0.68	ø8/ 6 2 br.	16.76	0.50	26408.50	2.37	35020.20	35020.20	35020.20	1.326
9 SLU	5.75	9.41	3.66	ø10/15 2 br.	10.47	0.50	19659.50	2.50	23049.70	33754.50	23049.70	1.172
9 SLU	9.41	10.07	0.66	ø8/ 6 2 br.	16.76	0.50	26682.00	2.37	35020.20	35020.20	35020.20	1.312
9 SLU	10.57	10.87	0.30	ø8/ 6 2 br.	16.76	0.50	24020.60	2.37	35020.20	35020.20	35020.20	1.458
9 SLU	10.87	14.47	3.60	ø10/15 2 br.	10.47	0.50	20835.10	2.50	23049.70	33754.50	23049.70	1.106
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.50	20575.50	2.37	35020.20	35020.20	35020.20	1.702

Travata n. 307

Nodi: 303 308 313 318

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	50.00	12.57	12.57	12.57	12.57	-10156.80	-10886.90	1.072
2.26	9	SLU	1	226.40	12.57	12.57	12.57	12.57	9842.74	10886.90	1.106
4.57	9	SLU	1	457.00	27.14	18.85	27.14	18.85	-15641.40	-22190.40	1.419
5.07	9	SLU	2	0.00	27.14	18.85	27.14	18.85	-21538.50	-22190.40	1.030
7.31	9	SLU	2	223.85	14.58	25.13	14.58	25.13	11192.00	20590.20	1.840
10.07	9	SLU	2	500.00	27.14	21.99	27.14	21.99	-22211.00	-22232.00	1.000
10.57	9	SLU	3	50.00	27.14	21.99	27.14	21.99	-16756.40	-22232.00	1.327
12.67	9	SLU	3	260.00	12.57	12.57	12.57	12.57	10498.80	10886.90	1.037
14.77	5	SLV	3	470.00	12.57	12.57	12.57	12.57	-10373.70	-10886.90	1.049

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	50.00	12.57	12.57	-6488.33	2414.32	-658.13	95.08
0.50	12	SLE Q	1	50.00	12.57	12.57	-5412.00	2013.81	-548.96	79.31
2.26	10	SLE R	1	226.40	12.57	12.57	6946.89	-704.64	2584.95	101.80
2.26	12	SLE Q	1	226.40	12.57	12.57	5946.48	-603.17	2212.70	87.14
4.57	10	SLE R	1	457.00	27.14	18.85	-11031.40	1964.11	-1006.67	116.62
4.57	12	SLE Q	1	457.00	27.14	18.85	-9548.48	1700.08	-871.34	100.95
5.07	10	SLE R	2	0.00	27.14	18.85	-15214.10	2708.82	-1388.35	160.84
5.07	12	SLE Q	2	0.00	27.14	18.85	-12989.20	2312.69	-1185.32	137.32
7.31	10	SLE R	2	223.85	14.58	25.13	7901.15	-781.89	1515.38	90.41
7.31	12	SLE Q	2	223.85	14.58	25.13	6733.33	-666.32	1291.40	77.05

10.07	10	SLE R	2	500.00	27.14	21.99	-15665.10	2787.93	-1353.12	159.22
10.07	12	SLE Q	2	500.00	27.14	21.99	-13413.30	2387.18	-1158.61	136.34
10.57	10	SLE R	3	50.00	27.14	21.99	-11809.00	2101.66	-1020.04	120.03
10.57	12	SLE Q	3	50.00	27.14	21.99	-10226.50	1820.02	-883.35	103.95
12.67	10	SLE R	3	260.00	12.57	12.57	7411.89	-751.81	2757.98	108.62
12.67	12	SLE Q	3	260.00	12.57	12.57	6340.31	-643.12	2359.24	92.91
14.77	10	SLE R	3	470.00	12.57	12.57	-6832.76	2542.48	-693.07	100.13
14.77	12	SLE Q	3	470.00	12.57	12.57	-5700.51	2121.17	-578.22	83.54

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
13	0.50	12	SLE Q	1	4	50.00	-5412.00	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2013.81	0.78	0.18
14	0.50	11	SLE F	1	4	50.00	-5620.00	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2091.21	0.73	0.17
25	2.26	12	SLE Q	1	4	226.40	5946.48	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2212.70	0.88	0.20
26	2.26	11	SLE F	1	4	226.40	6130.85	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2281.30	0.82	0.19
37	4.57	12	SLE Q	1	4	457.00	-9548.48	40.22	49.25	0.50	19.64	102.42	27.14	303.71	1700.08	0.73	0.13
38	4.57	11	SLE F	1	4	457.00	-9825.49	40.22	49.25	0.50	19.64	102.42	27.14	303.71	1749.40	0.70	0.12
49	5.07	12	SLE Q	2	4	0.00	-12989.20	40.22	49.25	0.50	19.64	102.42	27.14	303.71	2312.69	1.02	0.18
50	5.07	11	SLE F	2	4	0.00	-13405.50	40.22	49.25	0.50	19.64	102.42	27.14	303.71	2386.81	1.01	0.18
61	7.31	12	SLE Q	2	4	223.85	6733.33	40.00	55.71	0.50	20.00	104.13	25.13	303.21	1291.40	0.52	0.09
62	7.31	11	SLE F	2	4	223.85	6953.45	40.00	55.71	0.50	20.00	104.13	25.13	303.21	1333.61	0.49	0.09
73	10.07	12	SLE Q	2	4	500.00	-13413.30	40.22	49.25	0.50	19.64	102.71	27.14	307.75	2387.18	1.06	0.18
74	10.07	11	SLE F	2	4	500.00	-13834.30	40.22	49.25	0.50	19.64	102.71	27.14	307.75	2462.10	1.04	0.18
85	10.57	12	SLE Q	3	4	50.00	-10226.50	40.22	49.25	0.50	19.64	102.71	27.14	307.75	1820.02	0.78	0.14
86	10.57	11	SLE F	3	4	50.00	-10522.30	40.22	49.25	0.50	19.64	102.71	27.14	307.75	1872.67	0.76	0.13
97	12.67	12	SLE Q	3	4	260.00	6340.31	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2359.24	0.95	0.22
98	12.67	11	SLE F	3	4	260.00	6537.79	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2432.72	0.89	0.20
111	14.77	12	SLE Q	3	4	470.00	-5700.51	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2121.17	0.84	0.19
112	14.77	11	SLE F	3	4	470.00	-5919.27	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2202.57	0.78	0.18

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	19282.10	2.37	35020.20	35020.20	35020.20	1.816
9 SLU	0.80	4.27	3.47	ø10/15 2 br.	10.47	0.50	19381.10	2.50	23049.70	33754.50	23049.70	1.189
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.50	22457.80	2.37	35020.20	35020.20	35020.20	1.559
9 SLU	5.07	5.37	0.30	ø8/ 6 2 br.	16.76	0.50	25504.20	2.37	35020.20	35020.20	35020.20	1.373
9 SLU	5.37	9.77	4.40	ø10/15 2 br.	10.47	0.50	22696.60	2.50	23049.70	33754.50	23049.70	1.016
9 SLU	9.77	10.07	0.30	ø8/ 6 2 br.	16.76	0.50	25773.30	2.37	35020.20	35020.20	35020.20	1.359
9 SLU	10.57	10.87	0.30	ø8/ 6 2 br.	16.76	0.50	23226.20	2.37	35020.20	35020.20	35020.20	1.508
9 SLU	10.87	14.47	3.60	ø10/15 2 br.	10.47	0.50	20149.50	2.50	23049.70	33754.50	23049.70	1.144
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.50	19847.00	2.37	35020.20	35020.20	35020.20	1.765

Travata n. 308

Nodi: 304 309 314 319

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	50.00	12.57	12.57	12.57	12.57	-10412.10	-10886.90	1.046
2.13	9	SLU	1	212.80	12.57	12.57	12.57	12.57	10163.60	10886.90	1.071
4.57	9	SLU	1	457.00	28.27	21.99	28.27	21.99	-16177.60	-23099.30	1.428
5.07	9	SLU	2	0.00	28.27	21.99	28.27	21.99	-22291.00	-23099.30	1.036
7.31	9	SLU	2	224.33	15.71	25.13	15.71	25.13	11604.60	20613.10	1.776
10.07	9	SLU	2	500.00	30.29	21.99	30.29	21.99	-22974.50	-24625.80	1.072
10.57	9	SLU	3	50.00	30.29	21.99	30.29	21.99	-17315.40	-24625.80	1.422
12.67	9	SLU	3	260.00	12.57	12.57	12.57	12.57	10840.10	10886.90	1.004
14.77	5	SLV	3	470.00	12.57	12.57	12.57	12.57	-10666.70	-10886.90	1.021

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	50.00	12.57	12.57	-6758.44	2514.83	-685.53	99.04
0.50	12	SLE Q	1	50.00	12.57	12.57	-5638.72	2098.18	-571.95	82.63
2.13	10	SLE R	1	212.80	12.57	12.57	7172.32	-727.51	2668.83	105.11
2.13	12	SLE Q	1	212.80	12.57	12.57	6137.17	-622.51	2283.65	89.94
4.57	10	SLE R	1	457.00	28.27	21.99	-11408.70	1952.38	-984.91	114.61
4.57	12	SLE Q	1	457.00	28.27	21.99	-9869.74	1689.01	-852.05	99.15
5.07	10	SLE R	2	0.00	28.27	21.99	-15743.10	2694.12	-1359.09	158.16
5.07	12	SLE Q	2	0.00	28.27	21.99	-13436.40	2299.37	-1159.96	134.99
7.31	10	SLE R	2	224.33	15.71	25.13	8191.06	-793.16	1570.64	92.27
7.31	12	SLE Q	2	224.33	15.71	25.13	6978.74	-675.77	1338.17	78.62
10.07	10	SLE R	2	500.00	30.29	21.99	-16201.40	2595.70	-1396.91	159.67
10.07	12	SLE Q	2	500.00	30.29	21.99	-13867.40	2221.75	-1195.66	136.67
10.57	10	SLE R	3	50.00	30.29	21.99	-12202.40	1955.00	-1052.10	120.26
10.57	12	SLE Q	3	50.00	30.29	21.99	-10561.10	1692.04	-910.59	104.08
12.67	10	SLE R	3	260.00	12.57	12.57	7651.72	-776.14	2847.22	112.13

12.67	12	SLE Q	3	260.00	12.57	12.57	6543.11	-663.69	2434.70	95.89
14.77	10	SLE R	3	470.00	12.57	12.57	-7127.86	2652.29	-723.00	104.45
14.77	12	SLE Q	3	470.00	12.57	12.57	-5948.65	2213.51	-603.39	87.17

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>
13	0.50	12	SLE Q	1	4	50.00	-5638.72	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2098.18	0.83	0.19
14	0.50	11	SLE F	1	4	50.00	-5854.85	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2178.60	0.77	0.18
25	2.13	12	SLE Q	1	4	212.80	6137.17	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2283.65	0.92	0.21
26	2.13	11	SLE F	1	4	212.80	6328.06	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2354.68	0.85	0.20
37	4.57	12	SLE Q	1	4	457.00	-9869.74	40.00	49.25	0.50	20.00	101.57	28.27	304.90	1689.01	0.72	0.12
38	4.57	11	SLE F	1	4	457.00	-10157.30	40.00	49.25	0.50	20.00	101.57	28.27	304.90	1738.22	0.70	0.12
49	5.07	12	SLE Q	2	4	0.00	-13436.40	40.00	49.25	0.50	20.00	101.57	28.27	304.90	2299.37	1.02	0.18
50	5.07	11	SLE F	2	4	0.00	-13868.00	40.00	49.25	0.50	20.00	101.57	28.27	304.90	2373.24	1.01	0.17
61	7.31	12	SLE Q	2	4	224.33	6978.74	40.00	55.71	0.50	20.00	104.26	25.13	304.82	1338.17	0.54	0.10
62	7.31	11	SLE F	2	4	224.33	7207.19	40.00	55.71	0.50	20.00	104.26	25.13	304.82	1381.98	0.51	0.09
73	10.07	12	SLE Q	2	4	500.00	-13867.40	40.20	43.78	0.50	19.67	99.89	30.29	300.04	2221.75	0.99	0.17
74	10.07	11	SLE F	2	4	500.00	-14303.80	40.20	43.78	0.50	19.67	99.89	30.29	300.04	2291.67	0.97	0.17
85	10.57	12	SLE Q	3	4	50.00	-10561.10	40.20	43.78	0.50	19.67	99.89	30.29	300.04	1692.04	0.73	0.12
86	10.57	11	SLE F	3	4	50.00	-10867.90	40.20	43.78	0.50	19.67	99.89	30.29	300.04	1741.19	0.71	0.12
97	12.67	12	SLE Q	3	4	260.00	6543.11	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2434.70	0.99	0.23
98	12.67	11	SLE F	3	4	260.00	6747.52	40.00	130.00	0.50	20.00	134.95	12.57	345.26	2510.77	0.93	0.21
111	14.77	12	SLE Q	3	4	470.00	-5948.65	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2213.51	0.88	0.20
112	14.77	11	SLE F	3	4	470.00	-6176.27	40.00	131.33	0.50	20.00	134.95	12.57	345.26	2298.20	0.83	0.19

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	19982.80	2.37	35020.20	35020.20	35020.20	1.753
9 SLU	0.80	4.27	3.47	ø10/15 2 br.	10.47	0.50	20047.40	2.50	23049.70	33754.50	23049.70	1.150
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.50	23232.80	2.37	35020.20	35020.20	35020.20	1.507
9 SLU	5.07	5.77	0.70	ø8/ 6 2 br.	16.76	0.50	26408.50	2.37	35020.20	35020.20	35020.20	1.326
9 SLU	5.77	9.43	3.66	ø10/15 2 br.	10.47	0.50	19843.60	2.50	23049.70	33754.50	23049.70	1.162
9 SLU	9.43	10.07	0.64	ø8/ 6 2 br.	16.76	0.50	26682.00	2.37	35020.20	35020.20	35020.20	1.312
9 SLU	10.57	10.87	0.30	ø8/ 6 2 br.	16.76	0.50	24020.60	2.37	35020.20	35020.20	35020.20	1.458
9 SLU	10.87	14.47	3.60	ø10/15 2 br.	10.47	0.50	20835.10	2.50	23049.70	33754.50	23049.70	1.106
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.50	20575.50	2.37	35020.20	35020.20	35020.20	1.702

Travata n. 309

Nodi: 305 310 315 320

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>
4	R	50.00	30.00	5.00	5.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.50	5	SLV	1	457.00	8.04	6.03	8.04	6.03	-7140.99	-7306.47	1.023
2.18	9	SLU	1	289.25	8.04	6.03	8.04	6.03	5143.78	5704.11	1.109
4.57	5	SLV	1	50.00	14.07	6.03	14.07	6.03	-9565.27	-12066.20	1.261
5.07	9	SLU	2	500.00	14.07	6.03	14.07	6.03	-11775.80	-12066.20	1.025
7.39	9	SLU	2	268.35	6.03	12.06	6.03	12.06	6515.02	10497.60	1.611
10.07	9	SLU	2	0.00	15.21	6.03	15.21	6.03	-12218.20	-12938.90	1.059
10.57	5	SLV	3	470.00	15.21	6.03	15.21	6.03	-10126.40	-12938.90	1.278
12.67	9	SLU	3	260.00	9.17	6.03	9.17	6.03	5466.96	5708.29	1.044
14.77	5	SLV	3	50.00	9.17	6.03	9.17	6.03	-7371.53	-8209.09	1.114

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
0.50	10	SLE R	1	457.00	8.04	6.03	-3829.90	2173.84	-428.02	71.90
0.50	12	SLE Q	1	457.00	8.04	6.03	-3159.68	1793.43	-353.12	59.32
2.18	10	SLE R	1	289.25	8.04	6.03	3643.18	-352.17	2729.39	74.84
2.18	12	SLE Q	1	289.25	8.04	6.03	3144.83	-304.00	2356.04	64.60
4.57	10	SLE R	1	50.00	14.07	6.03	-6470.61	2154.73	-769.95	100.08
4.57	12	SLE Q	1	50.00	14.07	6.03	-5706.42	1900.25	-679.02	88.26
5.07	10	SLE R	2	500.00	14.07	6.03	-8352.42	2781.38	-993.87	129.18
5.07	12	SLE Q	2	500.00	14.07	6.03	-7174.39	2389.09	-853.70	110.96
7.39	10	SLE R	2	268.35	6.03	12.06	4615.62	-544.89	1779.59	75.07
7.39	12	SLE Q	2	268.35	6.03	12.06	3964.80	-468.06	1528.66	64.48
10.07	10	SLE R	2	0.00	15.21	6.03	-8642.62	2674.43	-1030.55	130.45
10.07	12	SLE Q	2	0.00	15.21	6.03	-7459.05	2308.18	-889.42	112.59
10.57	10	SLE R	3	470.00	15.21	6.03	-6987.36	2162.22	-833.17	105.47
10.57	12	SLE Q	3	470.00	15.21	6.03	-6172.81	1910.16	-736.05	93.17
12.67	10	SLE R	3	260.00	9.17	6.03	3871.32	-362.60	2904.01	78.62
12.67	12	SLE Q	3	260.00	9.17	6.03	3343.24	-313.14	2507.88	67.89
14.77	10	SLE R	3	50.00	9.17	6.03	-4010.13	2007.35	-459.28	71.73
14.77	12	SLE Q	3	50.00	9.17	6.03	-3294.18	1648.96	-377.28	58.92

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>
11	0.50	12	SLE Q	1	4	457.00	-3159.68	42.00	132.67	0.50	16.00	155.98	8.04	361.83	1793.43	0.58	0.15
12	0.50	11	SLE F	1	4	457.00	-3287.65	42.00	132.67	0.50	16.00	155.98	8.04	361.83	1866.06	0.54	0.14
23	2.18	12	SLE Q	1	4	289.25	3144.83	42.00	197.00	0.50	16.00	184.42	6.03	378.57	2356.04	0.75	0.23
24	2.18	11	SLE F	1	4	289.25	3237.75	42.00	197.00	0.50	16.00	184.42	6.03	378.57	2425.66	0.71	0.22
35	4.57	12	SLE Q	1	4	50.00	-5706.42	42.00	66.33	0.50	16.00	121.39	14.07	328.91	1900.25	0.75	0.16
36	4.57	11	SLE F	1	4	50.00	-5847.75	42.00	66.33	0.50	16.00	121.39	14.07	328.91	1947.31	0.69	0.14
47	5.07	12	SLE Q	2	4	500.00	-7174.39	42.00	66.33	0.50	16.00	121.39	14.07	328.91	2389.09	0.99	0.20
48	5.07	11	SLE F	2	4	500.00	-7395.47	42.00	66.33	0.50	16.00	121.39	14.07	328.91	2462.71	0.94	0.19
59	7.39	12	SLE Q	2	4	268.35	3964.80	42.00	78.80	0.50	16.00	128.90	12.06	338.53	1528.66	0.55	0.12
60	7.39	11	SLE F	2	4	268.35	4086.61	42.00	78.80	0.50	16.00	128.90	12.06	338.53	1575.63	0.47	0.10
71	10.07	12	SLE Q	2	4	0.00	-7459.05	41.71	66.33	0.50	16.69	118.99	15.21	323.95	2308.18	0.96	0.19
72	10.07	11	SLE F	2	4	0.00	-7681.17	41.71	66.33	0.50	16.69	118.99	15.21	323.95	2376.91	0.92	0.19
83	10.57	12	SLE Q	3	4	470.00	-6172.81	41.71	66.33	0.50	16.69	118.99	15.21	323.95	1910.16	0.77	0.16
84	10.57	11	SLE F	3	4	470.00	-6323.73	41.71	66.33	0.50	16.69	118.99	15.21	323.95	1956.86	0.71	0.14
95	12.67	12	SLE Q	3	4	260.00	3343.24	42.00	197.00	0.50	16.00	184.71	6.03	379.67	2507.88	0.82	0.26
96	12.67	11	SLE F	3	4	260.00	3441.70	42.00	197.00	0.50	16.00	184.71	6.03	379.67	2581.74	0.75	0.24
107	14.77	12	SLE Q	3	4	50.00	-3294.18	41.50	132.00	0.50	17.18	149.40	9.17	354.60	1648.96	0.54	0.14
108	14.77	11	SLE F	3	4	50.00	-3430.60	41.50	132.00	0.50	17.18	149.40	9.17	354.60	1717.25	0.50	0.13

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SLU	0.50	0.80	0.30	ø8/ 6 2 br.	16.76	0.50	10748.50	2.37	35020.20	35020.20	35020.20	3.258
9 SLU	0.80	4.27	3.47	ø10/20 2 br.	7.85	0.50	10869.10	2.50	17287.30	33754.50	17287.30	1.591
9 SLU	4.27	4.57	0.30	ø8/ 6 2 br.	16.76	0.50	12589.30	2.37	35020.20	35020.20	35020.20	2.782
9 SLU	5.07	5.37	0.30	ø8/ 6 2 br.	16.76	0.50	14246.80	2.37	35020.20	35020.20	35020.20	2.458
9 SLU	5.37	9.77	4.40	ø10/20 2 br.	7.85	0.50	12703.50	2.50	17287.30	33754.50	17287.30	1.361
9 SLU	9.77	10.07	0.30	ø8/ 6 2 br.	16.76	0.50	14423.70	2.37	35020.20	35020.20	35020.20	2.428
9 SLU	10.57	10.87	0.30	ø8/ 6 2 br.	16.76	0.50	13055.40	2.37	35020.20	35020.20	35020.20	2.682
9 SLU	10.87	14.47	3.60	ø10/20 2 br.	7.85	0.50	11335.20	2.50	17287.30	33754.50	17287.30	1.525
9 SLU	14.47	14.77	0.30	ø8/ 6 2 br.	16.76	0.50	11027.80	2.37	35020.20	35020.20	35020.20	3.176

Verifiche e armature pilastri

Simbologia

Δ_{sm} = Distanza media tra le fessure
$E_{sy,d}$ = Deformazione di snervamento dell'acciaio
Φ_{eq} = Diametro equivalente delle barre
α_e = Coefficiente di efficacia del confinamento
α_y = Fattore di amplificazione momenti My per gerarchia delle resistenze
α_z = Fattore di amplificazione momenti Mz per gerarchia delle resistenze
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
$\mu\Phi_c$ = Capacità della duttilità di curvatura
$\mu\Phi_d$ = Domanda della duttilità di curvatura
νd_s = Sforzo normale normalizzato del pilastro superiore (%)
νd_i = Sforzo normale normalizzato del pilastro inferiore (%)
σ_c = Tensione nel calcestruzzo
σ_f = Tensione nel ferro
σ_s = Tensione nell'acciaio nella sezione fessurata
ω_{Wd} = Rapporto meccanico dell'armatura trasversale di confinamento all'interno della zona dissipativa
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
AfC = Area di ferro compressa
AfT = Area di ferro tesa
Afni = Azione di fessurazione sul nodo integro [7.4.10]
As1 = Area di ferro superiore delle travi incidenti sulla faccia
As2 = Area di ferro inferiore delle travi incidenti sulla faccia
Ash = Area totale della sezione della staffa
B = Base
Bj = Larghezza effettiva utile del nodo
Br_y = Numero bracci in dir. Y locale
Br_z = Numero bracci in dir. Z locale
Br. = Numero bracci
CC = Numero della combinazione delle condizioni di carico elementari
Cf = Copriferro
Cls = Tipo di calcestruzzo
Conf. = Nodo confinato
S = Sì
N = No
El = Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
F = Identificativo faccia del nodo
Y+ = Faccia sul lato positivo Y locale pilastro
Z+ = Faccia sul lato positivo Z locale pilastro
Y- = Faccia sul lato negativo Y locale pilastro
Z- = Faccia sul lato negativo Z locale pilastro
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
H = Altezza
Hjc = Distanza tra armature pilastro
Hjw = Distanza tra armature trave
K_2 = Coefficiente per distribuzione deformazioni
M'ydy,r = Momento resistente massimo in campo sostanzialmente elastico (ridotto del 30%) intorno all'asse Y
M'ydz,r = Momento resistente massimo in campo sostanzialmente elastico (ridotto del 30%) intorno all'asse Z
MRdy,r = Momento resistente allo stato limite ultimo (ridotto del 30%) intorno all'asse Y

MRdz,r = Momento resistente allo stato limite ultimo (ridotto del 30%) intorno all'asse Z
Mod. = Modalità di verifica faccia
I = Interna
E = Esterna
My = Momento flettente intorno all'asse Y
My ver. = Momento flettente di verifica intorno all'asse Y
Mz = Momento flettente intorno all'asse Z
Mz ver. = Momento flettente di verifica intorno all'asse Z
N = Sforzo normale
Nodo = Numero del nodo
Nu = Sforzo normale ultimo
Rfni = Resistenza a fessurazione nodo integro [7.4.10]
Sez. = Numero della sezione
Sic. = Sicurezza
Staff. = Staffatura adottata
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tipo = Tipologia
R = Rettangolare
Tp = Tipo di acciaio
$VRcd,_y$ = Taglio ultimo lato calcestruzzo in dir. Y
$VRcd,_z$ = Taglio ultimo lato calcestruzzo in dir. Z
$VRsd,_y$ = Taglio ultimo lato armatura in dir. Y
$VRsd,_z$ = Taglio ultimo lato armatura in dir. Z
Vc = Taglio nel pilastro al di sopra del nodo
VjbR = Resistenza a compressione del nucleo di calcestruzzo [7.4.8]
Vjbd = Taglio agente nel nucleo di calcestruzzo [7.4.6/7]
VjwR = Resistenza a trazione diagonale [7.4.11/12]
Vjwd = Azione agente di trazione diagonale [7.4.11/12]
$Vrd,_y$ = Taglio resistente in dir. Y
$Vrd,_z$ = Taglio resistente in dir. Z
$Vsdu,_y$ = Taglio agente in dir. Y
$Vsdu,_z$ = Taglio agente in dir. Z
Wk = Ampiezza caratteristica delle fessure
X = Coordinata progressiva rispetto al nodo iniziale
X0 = Coordinata progressiva (dal nodo iniziale) dell'inizio del tratto
X1 = Coordinata progressiva (dal nodo iniziale) della fine del tratto
Xg = Coordinata progressiva (dal primo nodo) in cui viene effettuato il progetto/verifica
b_c/b_0 = Rapporto tra la larghezza minima della sezione trasversale lorda e la larghezza del nucleo confinato
$bw,_y$ = Larghezza membratura resistente al taglio in dir. Y
$bw,_z$ = Larghezza membratura resistente al taglio in dir. Z
c = Ricoprimento dell'armatura
$ctg\theta,_y$ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Y
$ctg\theta,_z$ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Z
$d,_y$ = Altezza utile per resistenza al taglio in dir. Y
$d,_z$ = Altezza utile per resistenza al taglio in dir. Z
s = Distanza massima tra le barre
v_d = Forza assiale adimensionalizzata di progetto

Pilastrata n. 1

Nodi: 1 101 201 301

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-20005.60	-14405.60		-14405.60	0.00		0.00	-20005.60	-15846.10	0.00	1.100
0.00	1	SLV	1	1	0.00	-20005.60	-14405.60		-14405.60	0.00		0.00	-20005.60	-15846.10	0.00	1.100
2.50	5(α)	SLV	1	1	250.00	-17046.10	2332.66	1.96	4560.40	0.00	1.30	0.00	-17046.10	15644.10	0.00	3.430
2.80	5(α)	SLV	2	1	0.00	-11036.70	0.00	3.08	0.00	-11764.70	1.30	-15294.10	-11036.70	0.00	-19946.40	1.304
2.80	5(α)	SLV	2	1	0.00	-11036.70	0.00	3.08	0.00	-11764.70	1.30	-15294.10	-11036.70	0.00	-19946.40	1.304
6.10	1(α)	SLV	2	1	330.00	-10257.40	-5905.23	1.30	-7676.80	0.00	1.39	0.00	-10257.40	-15092.00	0.00	1.966
6.35	5(α)	SLV	3	1	0.00	-7656.45	0.00	1.90	0.00	5268.21	1.30	6848.67	-7656.45	0.00	19506.60	2.848
6.35	5(α)	SLV	3	1	0.00	-7656.45	0.00	1.90	0.00	5268.21	1.30	6848.67	-7656.45	0.00	19506.60	2.848
7.10	5	SLV	3	1	75.00	-7281.45	0.00		0.00	9804.57		9804.57	-7281.45	0.00	19457.80	1.985

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-26668.90	0.00	-10631.70	16.59	16.59	102.41	1864.75
0.00	12	SLE Q	1	1	0.00	-24047.60	0.00	-9537.44	16.59	16.59	91.88	1669.07
0.00	10	SLE R	1	1	0.00	-26668.90	0.00	-10631.70	16.59	16.59	102.41	1864.75
0.00	12	SLE Q	1	1	0.00	-24047.60	0.00	-9537.44	16.59	16.59	91.88	1669.07
2.50	10	SLE R	1	1	250.00	-25418.90	3086.34	0.00	12.57	20.61	24.14	316.92
2.50	12	SLE Q	1	1	250.00	-22797.60	2406.18	0.00	0.00	33.18	19.80	262.88
2.80	10	SLE R	2	1	0.00	-15434.40	-5707.30	0.00	16.59	16.59	39.08	578.15
2.80	12	SLE Q	2	1	0.00	-14255.80	-4879.79	0.00	16.59	16.59	33.56	467.18
2.80	10	SLE R	2	1	0.00	-15434.40	-5707.30	0.00	16.59	16.59	39.08	578.15
2.80	12	SLE Q	2	1	0.00	-14255.80	-4879.79	0.00	16.59	16.59	33.56	467.18
6.10	10	SLE R	2	1	330.00	-13784.40	0.00	-1663.75	10.30	22.87	16.55	202.62
6.10	12	SLE Q	2	1	330.00	-12605.80	0.00	-1652.12	10.30	22.87	16.31	197.04
6.35	10	SLE R	3	1	0.00	-10972.00	1738.92	0.00	12.57	20.61	12.78	163.10
6.35	12	SLE Q	3	1	0.00	-9797.78	1381.80	0.00	12.57	20.61	10.39	134.31
6.35	10	SLE R	3	1	0.00	-10972.00	1738.92	0.00	12.57	20.61	12.78	163.10

6.35	12	SLE Q	3	1	0.00	-9797.78	1381.80	0.00	12.57	20.61	10.39	134.31
7.10	10	SLE R	3	1	75.00	-10597.00	6218.50	0.00	16.59	16.59	41.56	798.17
7.10	12	SLE Q	3	1	75.00	-9422.78	5194.69	0.00	16.59	16.59	34.82	650.80

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-24047.60	-9537.44	0.00	43.00	132.01	0.50	18.22	157.37	10.30	403.59	1669.07	0.55	0.15
0.00	11	SLE F	1	1	0.00	-24630.20	-9780.94	0.00	43.00	132.01	0.50	18.22	157.38	10.30	403.67	1712.64	0.50	0.13
0.00	12	SLE Q	1	1	0.00	-24047.60	-9537.44	0.00	43.00	132.01	0.50	18.22	157.37	10.30	403.59	1669.07	0.55	0.15
0.00	11	SLE F	1	1	0.00	-24630.20	-9780.94	0.00	43.00	132.01	0.50	18.22	157.38	10.30	403.67	1712.64	0.50	0.13
2.80	12	SLE Q	2	1	0.00	-14255.80	0.00	-4879.79	43.00	98.00	0.50	20.00	142.90	12.57	357.53	467.18	0.14	0.03
2.80	11	SLE F	2	1	0.00	-14477.70	0.00	-5075.23	43.00	98.00	0.50	20.00	143.37	12.57	360.43	494.77	0.14	0.04
2.80	12	SLE Q	2	1	0.00	-14255.80	0.00	-4879.79	43.00	98.00	0.50	20.00	142.90	12.57	357.53	467.18	0.14	0.03
2.80	11	SLE F	2	1	0.00	-14477.70	0.00	-5075.23	43.00	98.00	0.50	20.00	143.37	12.57	360.43	494.77	0.14	0.04
7.10	12	SLE Q	3	1	75.00	-9422.78	0.00	5194.69	43.00	98.00	0.50	20.00	149.87	12.57	401.30	650.80	0.19	0.05
7.10	11	SLE F	3	1	75.00	-9643.54	0.00	5391.00	43.00	98.00	0.50	20.00	150.02	12.57	402.22	679.17	0.20	0.05

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	1743.31	2.50	39564.40	53471.40	39564.40	0.50	0.35	6785.73	2.50	30713.30	51886.40	30713.30	4.526
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	52243.30	39564.40	0.50	0.35	20701.00	2.50	30713.30	50694.70	30713.30	1.484
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	27939.30	2.50	39564.40	52243.20	39564.40	0.50	0.35	0.00	2.50	30713.30	50694.60	30713.30	1.416
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	1743.31	2.50	26376.30	53426.30	26376.30	0.50	0.35	6785.73	2.50	20475.50	51842.60	20475.50	3.017
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	26376.30	50647.20	26376.30	0.50	0.35	19720.70	2.50	20475.50	49145.90	20475.50	1.038
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	26141.70	2.50	26376.30	50647.60	26376.30	0.50	0.35	0.00	2.50	20475.50	49146.30	20475.50	1.009
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	1743.31	2.50	39564.40	53291.10	39564.40	0.50	0.35	6785.73	2.50	30713.30	51711.40	30713.30	4.526
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	52243.30	39564.40	0.50	0.35	20701.00	2.50	30713.30	50694.70	30713.30	1.484
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	27939.30	2.50	39564.40	52243.20	39564.40	0.50	0.35	0.00	2.50	30713.30	50694.60	30713.30	1.416
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.45	3381.12	2.50	39564.40	51288.20	39564.40	0.50	0.35	2193.20	2.50	30713.30	49767.90	30713.30	11.702
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.45	3403.95	2.50	39564.40	50585.90	39564.40	0.50	0.35	4410.65	2.50	30713.30	49086.40	30713.30	6.963
2.80	3.35	ø8/10	2	2	5	SLV	0.40	0.45	5733.46	2.50	39564.40	50706.70	39564.40	0.50	0.35	2452.80	2.50	30713.30	49203.60	30713.30	6.901
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.45	3381.12	2.50	26376.30	51238.60	26376.30	0.50	0.35	2193.20	2.50	20475.50	49719.80	20475.50	7.801
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.45	3403.95	2.50	26376.30	50547.70	26376.30	0.50	0.35	4410.65	2.50	20475.50	49049.40	20475.50	4.642
3.35	5.55	ø8/15	2	2	5	SLV	0.40	0.45	5733.46	2.50	26376.30	50668.50	26376.30	0.50	0.35	2452.80	2.50	20475.50	49166.60	20475.50	4.600
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.45	3381.12	2.50	39564.40	51040.20	39564.40	0.50	0.35	2193.20	2.50	30713.30	49527.30	30713.30	11.702
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.45	3403.95	2.50	39564.40	50395.10	39564.40	0.50	0.35	4410.65	2.50	30713.30	48901.30	30713.30	6.963
5.55	6.10	ø8/10	2	2	5	SLV	0.40	0.45	5733.46	2.50	39564.40	50515.90	39564.40	0.50	0.35	2452.80	2.50	30713.30	49018.50	30713.30	6.901
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	8432.18	2.50	39564.40	50431.60	39564.40	0.50	0.35	4059.79	2.50	30713.30	48936.70	30713.30	4.692
6.35	7.10	ø8/10	2	2	1	SLV	0.40	0.45	5590.80	2.50	39564.40	49852.90	39564.40	0.50	0.35	3444.29	2.50	30713.30	48375.20	30713.30	7.077
6.35	7.10	ø8/10	2	2	1(TG)	SND	0.40	0.45	6379.98	2.50	39564.40	50190.30	39564.40								6.201
6.35	7.10	ø8/10	2	2	1(TG)	SLV								0.50	0.35	0.00	2.50	30713.30	47915.00	30713.30	---

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.085618 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=21.8227
  0.09727 >= 0.02435 [7.4.29]
- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.085618 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=22.88
  0.09727 >= 0.02161 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
101	N	ø8/10	Y+	E	2	9.42	7.16	0.50	0.39	0.20	3.02
			Z-	E	2	6.03	6.03	0.50	0.29	0.20	3.02
201	N	ø8/ 8	Y+	E	2	4.02	4.02	0.40	0.39	0.15	3.02
			Z-	E	2	6.28	4.02	0.50	0.29	0.15	3.02
301	N	ø8/10	Y+	E	2	8.04	6.03	0.50	0.39	0.20	3.02
			Z-	E	2	6.03	6.03	0.50	0.29	0.20	3.02

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
101	Y+	5	SLV	5733.46	34834.10	3.17	4.90	138800.00	25149.70	118015.00	---	---
		5	SLV	5733.46	34834.10	5.02	8.20	135463.00	1873.95	118015.00	---	---
	Z-	1	SLV	-4410.65	21552.60	3.42	5.39	103239.00	0.00	118015.00	---	---
		5	SLV	-4410.65	21552.60	5.02	8.20	101081.00	0.00	118015.00	---	---
201	Y+	1	SLV	6210.93	11097.90	2.38	2.95	112166.00	0.00	196691.00	---	---
		5	SLV	6210.93	11097.90	3.43	4.55	110670.00	0.00	196691.00	---	---
	Z-	5	SLV	-3444.29	23600.70	2.20	2.70	104856.00	9516.61	157353.00	---	---
		5	SLV	-3444.29	23600.70	3.43	4.55	103226.00	0.00	157353.00	---	---
301	Y+	1	SLV	0.00	34617.60	0.00	2.27	144342.00	87620.50	118015.00	---	---
	Z-	1	SLV	0.00	25963.20	0.00	2.27	107707.00	89921.30	118015.00	---	---

Pilastrata n. 2

Nodi: 2 102 202 302

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-36320.30	0.00		0.00	15422.80		15422.80	-36320.30	0.00	23045.00	1.494
0.00	5	SLV	1	1	0.00	-36320.30	0.00		0.00	15422.80		15422.80	-36320.30	0.00	23045.00	1.494

2.50	5(α)	SLV	1	1	250.00	-35070.30	0.00	6.07	0.00	5957.96	1.30	7745.35	-35070.30	0.00	22918.50	2.959
2.80	5(α)	SLV	2	1	0.00	-21713.50	0.00	13.40	0.00	-15145.20	1.30	-19688.70	-21713.50	0.00	-21304.30	1.082
2.80	5(α)	SLV	2	1	0.00	-21713.50	0.00	13.40	0.00	-15145.20	1.30	-19688.70	-21713.50	0.00	-21304.30	1.082
6.10	7(α)	SLV	2	1	330.00	-20235.60	-1242.65	6.44	-8005.50	0.00	1.00	0.00	-20235.60	-15861.60	0.00	1.981
6.35	9	SLU	3	1	0.00	-29800.10	0.00		0.00	11606.10		11606.10	-29800.10	0.00	22300.80	1.921
6.35	9	SLU	3	1	0.00	-29800.10	0.00		0.00	11606.10		11606.10	-29800.10	0.00	22300.80	1.921
7.10	9	SLU	3	1	75.00	-29312.60	0.00		0.00	17429.00		17429.00	-29312.60	0.00	22241.60	1.276

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-47061.10	8636.68	0.00	12.57	20.61	62.20	779.58
0.00	12	SLE Q	1	1	0.00	-41960.30	8061.21	0.00	16.59	16.59	57.76	719.78
0.00	10	SLE R	1	1	0.00	-47061.10	8636.68	0.00	12.57	20.61	62.20	779.58
0.00	12	SLE Q	1	1	0.00	-41960.30	8061.21	0.00	16.59	16.59	57.76	719.78
2.50	10	SLE R	1	1	250.00	-45811.10	4596.41	0.00	0.00	33.18	38.64	514.89
2.50	12	SLE Q	1	1	250.00	-40710.30	3545.11	0.00	0.00	33.18	31.90	428.90
2.80	10	SLE R	2	1	0.00	-26383.20	-11191.10	0.00	16.59	16.59	76.05	1235.83
2.80	12	SLE Q	2	1	0.00	-24123.80	-9451.07	0.00	16.59	16.59	64.51	994.84
2.80	10	SLE R	2	1	0.00	-26383.20	-11191.10	0.00	16.59	16.59	76.05	1235.83
2.80	12	SLE Q	2	1	0.00	-24123.80	-9451.07	0.00	16.59	16.59	64.51	994.84
6.10	10	SLE R	2	1	330.00	-24733.20	6825.28	0.00	16.59	16.59	47.56	565.14
6.10	12	SLE Q	2	1	330.00	-22473.80	5741.39	0.00	16.59	16.59	40.21	482.56
6.35	10	SLE R	3	1	0.00	-21024.90	8201.50	0.00	16.59	16.59	55.99	860.92
6.35	12	SLE Q	3	1	0.00	-18772.80	6901.59	0.00	16.59	16.59	47.28	696.32
6.35	10	SLE R	3	1	0.00	-21024.90	8201.50	0.00	16.59	16.59	55.99	860.92
6.35	12	SLE Q	3	1	0.00	-18772.80	6901.59	0.00	16.59	16.59	47.28	696.32
7.10	10	SLE R	3	1	75.00	-20649.90	12311.30	0.00	16.59	16.59	82.21	1589.49
7.10	12	SLE Q	3	1	75.00	-18397.80	10367.10	0.00	16.59	16.59	69.42	1310.18

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-41960.30	0.00	8061.21	43.00	98.00	0.50	20.00	125.67	12.57	249.23	370.65	0.11	0.02
0.00	11	SLE F	1	1	0.00	-43094.30	0.00	8168.03	43.00	98.00	0.50	20.00	125.09	12.57	245.62	365.31	0.11	0.02
0.00	12	SLE Q	1	1	0.00	-41960.30	0.00	8061.21	43.00	98.00	0.50	20.00	125.67	12.57	249.23	370.65	0.11	0.02
0.00	11	SLE F	1	1	0.00	-43094.30	0.00	8168.03	43.00	98.00	0.50	20.00	125.09	12.57	245.62	365.31	0.11	0.02
2.80	12	SLE Q	2	1	0.00	-24123.80	0.00	-9451.07	43.00	98.00	0.50	20.00	145.33	12.57	372.80	994.84	0.29	0.07
2.80	11	SLE F	2	1	0.00	-24550.10	0.00	-9834.66	43.00	98.00	0.50	20.00	145.69	12.57	375.06	1049.78	0.31	0.08
2.80	12	SLE Q	2	1	0.00	-24123.80	0.00	-9451.07	43.00	98.00	0.50	20.00	145.33	12.57	372.80	994.84	0.29	0.07
2.80	11	SLE F	2	1	0.00	-24550.10	0.00	-9834.66	43.00	98.00	0.50	20.00	145.69	12.57	375.06	1049.78	0.31	0.08
6.10	12	SLE Q	2	1	330.00	-22473.80	0.00	5741.39	43.00	98.00	0.50	20.00	135.82	12.57	313.05	413.37	0.12	0.03
6.10	11	SLE F	2	1	330.00	-22900.10	0.00	5934.40	43.00	98.00	0.50	20.00	136.24	12.57	315.66	434.66	0.13	0.03
6.35	12	SLE Q	3	1	0.00	-18772.80	0.00	6901.59	43.00	98.00	0.50	20.00	144.24	12.57	365.95	696.32	0.20	0.05
6.35	11	SLE F	3	1	0.00	-19197.40	0.00	7138.41	43.00	98.00	0.50	20.00	144.44	12.57	367.22	725.90	0.21	0.05
6.35	12	SLE Q	3	1	0.00	-18772.80	0.00	6901.59	43.00	98.00	0.50	20.00	144.24	12.57	365.95	696.32	0.20	0.05
6.35	11	SLE F	3	1	0.00	-19197.40	0.00	7138.41	43.00	98.00	0.50	20.00	144.44	12.57	367.22	725.90	0.21	0.05
7.10	12	SLE Q	3	1	75.00	-18397.80	0.00	10367.10	43.00	98.00	0.50	20.00	150.10	12.57	402.74	1310.18	0.42	0.11
7.10	11	SLE F	3	1	75.00	-18822.40	0.00	10735.30	43.00	98.00	0.50	20.00	150.22	12.57	403.52	1363.12	0.40	0.10

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	2248.37	2.50	39564.40	57483.20	39564.40	0.50	0.35	100.39	2.50	30713.30	55779.30	30713.30	17.597
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54712.40	39564.40	0.50	0.35	22116.70	2.50	30713.30	53090.60	30713.30	1.389
0.00	0.50	ø8/10	2	2	7(TG)	SLV	0.40	0.45	15040.00	2.50	39564.40	54668.90	39564.40	0.50	0.35	11025.30	2.50	30713.30	53048.40	30713.30	2.631
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2248.37	2.50	26376.30	57438.10	26376.30	0.50	0.35	100.39	2.50	20475.50	55735.60	20475.50	11.731
0.50	2.00	ø8/15	2	2	7(TG)	SLV	0.40	0.45	15040.00	2.50	26376.30	54668.90	26376.30	0.50	0.35	11025.30	2.50	20475.50	53048.40	20475.50	1.754
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2248.37	2.50	39564.40	57302.90	39564.40	0.50	0.35	100.39	2.50	30713.30	55604.30	30713.30	17.597
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54712.40	39564.40	0.50	0.35	22116.70	2.50	30713.30	53090.60	30713.30	1.389
2.00	2.50	ø8/10	2	2	7(TG)	SLV	0.40	0.45	15040.00	2.50	39564.40	54668.90	39564.40	0.50	0.35	11025.30	2.50	30713.30	53048.40	30713.30	2.631
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.45	7735.32	2.50	39564.40	53449.90	39564.40	0.50	0.35	341.17	2.50	30713.30	51865.50	30713.30	5.115
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.45	5484.78	2.50	39564.40	51765.60	39564.40	0.50	0.35	3630.51	2.50	30713.30	50231.10	30713.30	7.213
2.80	3.35	ø8/10	2	2	5	SLV	0.40	0.45	7246.03	2.50	39564.40	51963.40	39564.40	0.50	0.35	1316.79	2.50	30713.30	50423.10	30713.30	5.460
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.45	7735.32	2.50	26376.30	53400.30	26376.30	0.50	0.35	341.17	2.50	20475.50	51817.40	20475.50	3.410
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.45	5484.78	2.50	26376.30	51727.40	26376.30	0.50	0.35	3630.51	2.50	20475.50	50194.10	20475.50	4.809
3.35	5.55	ø8/15	2	2	5	SLV	0.40	0.45	7246.04	2.50	26376.30	51925.30	26376.30	0.50	0.35	1316.79	2.50	20475.50	50386.10	20475.50	3.640
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.45	7735.32	2.50	39564.40	53201.90	39564.40	0.50	0.35	341.17	2.50	30713.30	51624.90	30713.30	5.115
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.45	5484.78	2.50	39564.40	51574.80	39564.40	0.50	0.35	3630.51	2.50	30713.30	50046.00	30713.30	7.213
5.55	6.10	ø8/10	2	2	5	SLV	0.40	0.45	7246.04	2.50	39564.40	51772.70	39564.40	0.50	0.35	1316.79	2.50	30713.30	50238.00	30713.30	5.460
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	7763.86	2.50	39564.40	52416.50	39564.40	0.50	0.35	1966.50	2.50	30713.30	50862.70	30713.30	5.096
6.35	7.10	ø8/10	2	2	1	SLV	0.40	0.45	5333.49	2.50	39564.40	51009.80	39564.40	0.50	0.35	5982.74	2.50	30713.30	49497.80	30713.30	5.134
6.35	7.10	ø8/10	2	2	5	SLV	0.40	0.45	6734.01	2.50	39564.40	51213.40	39564.40	0.50	0.35	2862.64	2.50	30713.30	49695.30	30713.30	5.875

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.13676 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=13.6616 0.09727 >= 0.0598 [7.4.29]
- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.13676 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=14.3235 0.09727 >= 0.05542 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
102	N	ø12/ 5	Y+	E	2	15.71	13.70	0.60	0.39	0.20	13.57
			Z+	I	2	7.16	6.03	0.50	0.29	0.20	13.57
			Z-	I	2	7.16	6.03	0.50	0.29	0.20	13.57
202	N	ø8/ 6	Z+	I	2	6.28	4.02	0.50	0.29	0.15	4.02
			Z-	I	2	6.28	4.02	0.50	0.29	0.15	4.02

302	N	ø12/ 4	Y+	E	2	12.57	12.57	0.50	0.39	0.20	15.83
			Z+	I	2	8.04	6.03	0.50	0.29	0.20	15.83
			Z-	I	2	8.04	6.03	0.50	0.29	0.20	15.83

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
102	Y+	5	SLV	7246.03	60366.50	6.24	10.08	156618.00	139036.00	442555.00	---	---
		5	SLV	7246.03	60366.50	7.62	13.32	153564.00	114365.00	442555.00	---	---
	Z+	5	SLV	3630.51	53164.00	6.24	10.08	122963.00	424889.00	531066.00	---	---
		5	SLV	3630.51	53164.00	7.62	13.32	121114.00	374696.00	531066.00	---	---
	Z-	5	SLV	3630.51	53164.00	6.24	10.08	122963.00	424889.00	531066.00	---	---
		5	SLV	3630.51	53164.00	7.62	13.32	121114.00	374696.00	531066.00	---	---
202	Z+	5	SLV	5982.74	38371.10	4.72	5.76	128459.00	173287.00	209804.00	---	---
		5	SLV	5982.74	38371.10	6.07	7.15	126632.00	143182.00	209804.00	---	---
	Z-	5	SLV	5982.74	38371.10	4.72	5.76	128459.00	173287.00	209804.00	---	---
		5	SLV	5982.74	38371.10	6.07	7.15	126632.00	143182.00	209804.00	---	---
302	Y+	1	SLV	0.00	54090.00	0.00	5.03	141412.00	434808.00	619577.00	---	---
	Z+	1	SLV	0.00	60580.80	0.00	5.03	130970.00	1169940.00	619577.00	60580.80	61957.70
	Z-	1	SLV	0.00	60580.80	0.00	5.03	130970.00	1169940.00	619577.00	60580.80	61957.70

Pilastrata n. 3

Nodi: 3 103 203 303

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-34633.60	0.00		0.00	15237.60		15237.60	-34633.60	0.00	22872.50	1.501
0.00	5	SLV	1	1	0.00	-34633.60	0.00		0.00	15237.60		15237.60	-34633.60	0.00	22872.50	1.501
2.50	5(α)	SLV	1	1	250.00	-33383.60	0.00	8.03	0.00	5784.16	1.30	7519.41	-33383.60	0.00	22731.90	3.023
2.80	5(α)	SLV	2	1	0.00	-20831.90	0.00	23.61	0.00	-14798.10	1.30	-19237.60	-20831.90	0.00	-21194.70	1.102
2.80	5(α)	SLV	2	1	0.00	-20831.90	0.00	23.61	0.00	-14798.10	1.30	-19237.60	-20831.90	0.00	-21194.70	1.102
6.10	1(α)	SLV	2	1	330.00	-20734.10	5349.00	1.30	6953.70	0.00	1.00	0.00	-20734.10	15895.70	0.00	2.286
6.35	9	SLU	3	1	0.00	-28411.30	0.00		0.00	11368.30		11368.30	-28411.30	0.00	22131.20	1.947
6.35	9	SLU	3	1	0.00	-28411.30	0.00		0.00	11368.30		11368.30	-28411.30	0.00	22131.20	1.947
7.10	9	SLU	3	1	75.00	-27923.80	0.00		0.00	17030.60		17030.60	-27923.80	0.00	22071.80	1.296

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-44748.70	8395.87	0.00	12.57	20.61	60.31	753.84
0.00	12	SLE Q	1	1	0.00	-39901.70	7845.25	0.00	16.59	16.59	56.09	696.77
0.00	10	SLE R	1	1	0.00	-44748.70	8395.87	0.00	12.57	20.61	60.31	753.84
0.00	12	SLE Q	1	1	0.00	-39901.70	7845.25	0.00	16.59	16.59	56.09	696.77
2.50	10	SLE R	1	1	250.00	-43498.70	4420.69	0.00	0.00	33.18	36.95	492.02
2.50	12	SLE Q	1	1	250.00	-38651.70	3405.03	0.00	0.00	33.18	30.46	409.25
2.80	10	SLE R	2	1	0.00	-25196.00	-10901.90	0.00	16.59	16.59	74.01	1217.44
2.80	12	SLE Q	2	1	0.00	-23049.30	-9208.73	0.00	16.59	16.59	62.79	981.33
2.80	10	SLE R	2	1	0.00	-25196.00	-10901.90	0.00	16.59	16.59	74.01	1217.44
2.80	12	SLE Q	2	1	0.00	-23049.30	-9208.73	0.00	16.59	16.59	62.79	981.33
6.10	10	SLE R	2	1	330.00	-23546.00	6700.89	0.00	16.59	16.59	46.60	551.60
6.10	12	SLE Q	2	1	330.00	-21399.30	5636.62	0.00	16.59	16.59	39.39	470.93
6.35	10	SLE R	3	1	0.00	-20042.80	8035.35	0.00	16.59	16.59	54.77	858.13
6.35	12	SLE Q	3	1	0.00	-17894.70	6762.03	0.00	16.59	16.59	46.25	695.18
6.35	10	SLE R	3	1	0.00	-20042.80	8035.35	0.00	16.59	16.59	54.77	858.13
6.35	12	SLE Q	3	1	0.00	-17894.70	6762.03	0.00	16.59	16.59	46.25	695.18
7.10	10	SLE R	3	1	75.00	-19667.80	12032.50	0.00	16.59	16.59	80.25	1568.00
7.10	12	SLE Q	3	1	75.00	-17519.70	10133.10	0.00	16.59	16.59	67.77	1293.56

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-39901.70	0.00	7845.25	43.00	98.00	0.50	20.00	126.63	12.57	255.31	377.62	0.11	0.02
0.00	11	SLE F	1	1	0.00	-40979.20	0.00	7947.15	43.00	98.00	0.50	20.00	126.06	12.57	251.72	372.36	0.11	0.02
0.00	12	SLE Q	1	1	0.00	-39901.70	0.00	7845.25	43.00	98.00	0.50	20.00	126.63	12.57	255.31	377.62	0.11	0.02
0.00	11	SLE F	1	1	0.00	-40979.20	0.00	7947.15	43.00	98.00	0.50	20.00	126.06	12.57	251.72	372.36	0.11	0.02
2.80	12	SLE Q	2	1	0.00	-23049.30	0.00	-9208.73	43.00	98.00	0.50	20.00	145.65	12.57	374.80	981.33	0.29	0.07
2.80	11	SLE F	2	1	0.00	-23453.30	0.00	-9581.50	43.00	98.00	0.50	20.00	146.00	12.57	377.01	1035.06	0.30	0.07
2.80	12	SLE Q	2	1	0.00	-23049.30	0.00	-9208.73	43.00	98.00	0.50	20.00	145.65	12.57	374.80	981.33	0.29	0.07
2.80	11	SLE F	2	1	0.00	-23453.30	0.00	-9581.50	43.00	98.00	0.50	20.00	146.00	12.57	377.01	1035.06	0.30	0.07
6.10	12	SLE Q	2	1	330.00	-21399.30	0.00	5636.62	43.00	98.00	0.50	20.00	136.70	12.57	318.57	420.82	0.12	0.03
6.10	11	SLE F	2	1	330.00	-21803.30	0.00	5825.58	43.00	98.00	0.50	20.00	137.10	12.57	321.08	442.09	0.13	0.03
6.35	12	SLE Q	3	1	0.00	-17894.70	0.00	6762.03	43.00	98.00	0.50	20.00	144.72	12.57	368.98	695.18	0.20	0.05
6.35	11	SLE F	3	1	0.00	-18299.00	0.00	6993.58	43.00	98.00	0.50	20.00	144.92	12.57	370.20	724.42	0.21	0.05
6.35	12	SLE Q	3	1	0.00	-17894.70	0.00	6762.03	43.00	98.00	0.50	20.00	144.72	12.57	368.98	695.18	0.20	0.05
6.35	11	SLE F	3	1	0.00	-18299.00	0.00	6993.58	43.00	98.00	0.50	20.00	144.92	12.57	370.20	724.42	0.21	0.05
7.10	12	SLE Q	3	1	75.00	-17519.70	0.00	10133.10	43.00	98.00	0.50	20.00	150.36	12.57	404.41	1293.56	0.41	0.10
7.10	11	SLE F	3	1	75.00	-17924.00	0.00	10492.20	43.00	98.00	0.50	20.00	150.48	12.57	405.16	1345.49	0.39	0.10

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	2215.44	2.50	39564.40	57030.60	39564.40	0.50	0.35	0.00	2.50	30713.30	55340.10	30713.30	17.858
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54375.50	39564.40	0.50	0.35	21945.40	2.50	30713.30	52763.70	30713.30	1.400
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	14934.10	2.50	39564.40	54375.50	39564.40	0.50	0.35	10950.60	2.50	30713.30	52763.70	30713.30	2.649
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2215.44	2.50	26376.30	56985.50	26376.30	0.50	0.35	0.00	2.50	20475.50	55296.30	20475.50	11.906
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	14934.10	2.50	26376.30	54375.50	26376.30	0.50	0.35	10950.60	2.50	20475.50	52763.70	20475.50	1.766
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2215.44	2.50	39564.40	56850.20	39564.40	0.50	0.35	0.00	2.50	30713.30	55165.10	30713.30	17.858
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54375.50	39564.40	0.50	0.35	21945.40	2.50	30713.30	52763.70	30713.30	1.400
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	14934.10	2.50	39564.40	54375.50	39564.40	0.50	0.35	10950.60	2.50	30713.30	52763.70	30713.30	2.649
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.45	7556.17	2.50	39564.40	53217.10	39564.40	0.50	0.35	0.00	2.50	30713.30	51639.70	30713.30	5.236
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.45	5277.16	2.50	39564.40	51572.30	39564.40	0.50	0.35	3553.63	2.50	30713.30	50043.50	30713.30	7.497
2.80	3.35	ø8/10	2	2	5	SLV	0.40	0.45	7093.75	2.50	39564.40	51787.60	39564.40	0.50	0.35	1066.09	2.50	30713.30	50252.50	30713.30	5.577
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.45	7556.17	2.50	26376.30	53167.60	26376.30	0.50	0.35	0.00	2.50	20475.50	51591.50	20475.50	3.491
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.45	5277.16	2.50	26376.30	51534.10	26376.30	0.50	0.35	3553.63	2.50	20475.50	50006.50	20475.50	4.998
3.35	5.55	ø8/15	2	2	5	SLV	0.40	0.45	7093.75	2.50	26376.30	51749.40	26376.30	0.50	0.35	1066.09	2.50	20475.50	50215.50	20475.50	3.718
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.45	7556.17	2.50	39564.40	52969.20	39564.40	0.50	0.35	0.00	2.50	30713.30	51399.10	30713.30	5.236
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.45	5277.16	2.50	39564.40	51381.50	39564.40	0.50	0.35	3553.63	2.50	30713.30	49858.50	30713.30	7.497
5.55	6.10	ø8/10	2	2	5	SLV	0.40	0.45	7093.75	2.50	39564.40	51596.80	39564.40	0.50	0.35	1066.09	2.50	30713.30	50067.40	30713.30	5.577
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	7549.67	2.50	39564.40	52223.80	39564.40	0.50	0.35	0.00	2.50	30713.30	50675.80	30713.30	5.241
6.35	7.10	ø8/10	2	2	1	SLV	0.40	0.45	5122.23	2.50	39564.40	50857.30	39564.40	0.50	0.35	4735.87	2.50	30713.30	49349.80	30713.30	6.485
6.35	7.10	ø8/10	2	2	5	SLV	0.40	0.45	6586.13	2.50	39564.40	51072.80	39564.40	0.50	0.35	1420.77	2.50	30713.30	49558.90	30713.30	6.007

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.12978 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=14.3968
  0.09727 >= 0.05496 [7.4.29]
- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.12978 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=15.0943
  0.09727 >= 0.0508 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
103	N	ø12/ 5	Y+	E	2	14.58	12.57	0.60	0.39	0.20	13.57
			Z+	I	2	7.16	6.03	0.50	0.29	0.20	13.57
			Z-	I	2	7.16	6.03	0.50	0.29	0.20	13.57
203	N	ø8/ 6	Z+	I	2	6.28	4.02	0.50	0.29	0.15	4.02
			Z-	I	2	6.28	4.02	0.50	0.29	0.15	4.02
303	N	ø12/ 4	Y+	E	2	12.57	12.57	0.50	0.39	0.20	15.83
			Z+	I	2	7.16	6.03	0.50	0.29	0.20	15.83
			Z-	I	2	7.16	6.03	0.50	0.29	0.20	15.83

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
103	Y+	5	SLV	7093.75	55650.70	5.99	9.59	157170.00	101836.00	442555.00	---	---
		5	SLV	7093.75	55650.70	7.26	12.62	154373.00	81722.80	442555.00	---	---
	Z+	5	SLV	-3553.63	53240.90	5.99	9.59	123298.00	436809.00	531066.00	---	---
		5	SLV	-3553.63	53240.90	7.26	12.62	121603.00	388520.00	531066.00	---	---
	Z-	5	SLV	-3553.63	53240.90	5.99	9.59	123298.00	436809.00	531066.00	---	---
		5	SLV	-3553.63	53240.90	7.26	12.62	121603.00	388520.00	531066.00	---	---
203	Z+	5	SLV	-4735.87	39618.00	4.50	5.51	128744.00	199502.00	209804.00	---	---
		5	SLV	-4735.87	39618.00	5.78	6.79	127027.00	168074.00	209804.00	---	---
	Z-	5	SLV	-4735.87	39618.00	4.50	5.51	128744.00	199502.00	209804.00	---	---
		5	SLV	-4735.87	39618.00	5.78	6.79	127027.00	168074.00	209804.00	---	---
303	Y+	1	SLV	0.00	54090.00	0.00	4.84	141412.00	434808.00	619577.00	---	---
	Z+	1	SLV	0.00	56794.50	0.00	4.84	130970.00	1011640.00	619577.00	56794.50	61957.70
	Z-	1	SLV	0.00	56794.50	0.00	4.84	130970.00	1011640.00	619577.00	56794.50	61957.70

Pilastrata n. 4

Nodi: 4 104 204 304

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-36320.30	0.00		0.00	15422.80		15422.80	-36320.30	0.00	23045.00	1.494
0.00	5	SLV	1	1	0.00	-36320.30	0.00		0.00	15422.80		15422.80	-36320.30	0.00	23045.00	1.494
2.50	5(α)	SLV	1	1	250.00	-35070.30	0.00	6.07	0.00	5957.97	1.30	7745.36	-35070.30	0.00	22918.50	2.959
2.80	5(α)	SLV	2	1	0.00	-21713.50	0.00	13.40	0.00	-15145.20	1.30	-19688.70	-21713.50	0.00	-21304.30	1.082
2.80	5(α)	SLV	2	1	0.00	-21713.50	0.00	13.40	0.00	-15145.20	1.30	-19688.70	-21713.50	0.00	-21304.30	1.082
6.10	7(α)	SLV	2	1	330.00	-20235.60	1242.66	6.44	8005.47	0.00	1.00	0.00	-20235.60	15861.80	0.00	1.981
6.35	9	SLU	3	1	0.00	-29800.10	0.00		0.00	11606.10		11606.10	-29800.10	0.00	22300.80	1.921
6.35	9	SLU	3	1	0.00	-29800.10	0.00		0.00	11606.10		11606.10	-29800.10	0.00	22300.80	1.921
7.10	9	SLU	3	1	75.00	-29312.60	0.00		0.00	17429.00		17429.00	-29312.60	0.00	22241.60	1.276

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-47061.10	8636.66	0.00	12.57	20.61	62.20	779.58
0.00	12	SLE Q	1	1	0.00	-41960.30	8061.20	0.00	16.59	16.59	57.76	719.78
0.00	10	SLE R	1	1	0.00	-47061.10	8636.66	0.00	12.57	20.61	62.20	779.58
0.00	12	SLE Q	1	1	0.00	-41960.30	8061.20	0.00	16.59	16.59	57.76	719.78

2.50	10	SLE R	1	1	250.00	-45811.10	4596.41	0.00	0.00	33.18	38.64	514.89
2.50	12	SLE Q	1	1	250.00	-40710.30	3545.11	0.00	0.00	33.18	31.90	428.90
2.80	10	SLE R	2	1	0.00	-26383.20	-11191.10	0.00	16.59	16.59	76.05	1235.83
2.80	12	SLE Q	2	1	0.00	-24123.80	-9451.06	0.00	16.59	16.59	64.51	994.84
2.80	10	SLE R	2	1	0.00	-26383.20	-11191.10	0.00	16.59	16.59	76.05	1235.83
2.80	12	SLE Q	2	1	0.00	-24123.80	-9451.06	0.00	16.59	16.59	64.51	994.84
6.10	10	SLE R	2	1	330.00	-24733.20	6825.28	0.00	16.59	16.59	47.56	565.14
6.10	12	SLE Q	2	1	330.00	-22473.80	5741.39	0.00	16.59	16.59	40.21	482.56
6.35	10	SLE R	3	1	0.00	-21024.90	8201.50	0.00	16.59	16.59	55.99	860.93
6.35	12	SLE Q	3	1	0.00	-18772.80	6901.59	0.00	16.59	16.59	47.28	696.33
6.35	10	SLE R	3	1	0.00	-21024.90	8201.50	0.00	16.59	16.59	55.99	860.93
6.35	12	SLE Q	3	1	0.00	-18772.80	6901.59	0.00	16.59	16.59	47.28	696.33
7.10	10	SLE R	3	1	75.00	-20649.90	12311.30	0.00	16.59	16.59	82.21	1589.49
7.10	12	SLE Q	3	1	75.00	-18397.80	10367.10	0.00	16.59	16.59	69.42	1310.18

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
2.80	12	SLE Q	2	1	0.00	-24123.80	0.00	-9451.06	43.00	98.00	0.50	20.00	145.32	12.57	372.76	994.84	0.29	0.07
2.80	11	SLE F	2	1	0.00	-24550.10	0.00	-9834.66	43.00	98.00	0.50	20.00	145.69	12.57	375.02	1049.78	0.31	0.08
2.80	12	SLE Q	2	1	0.00	-24123.80	0.00	-9451.06	43.00	98.00	0.50	20.00	145.32	12.57	372.76	994.84	0.29	0.07
2.80	11	SLE F	2	1	0.00	-24550.10	0.00	-9834.66	43.00	98.00	0.50	20.00	145.69	12.57	375.02	1049.78	0.31	0.08
6.10	12	SLE Q	2	1	330.00	-22473.80	0.00	5741.39	43.00	98.00	0.50	20.00	169.29	12.57	523.33	413.37	0.12	0.03
6.10	11	SLE F	2	1	330.00	-22900.10	0.00	5934.40	43.00	98.00	0.50	20.00	169.29	12.57	523.33	434.66	0.13	0.04
6.35	12	SLE Q	3	1	0.00	-18772.80	0.00	6901.59	43.00	98.00	0.50	20.00	169.29	12.57	523.33	696.33	0.20	0.06
6.35	11	SLE F	3	1	0.00	-19197.40	0.00	7138.41	43.00	98.00	0.50	20.00	169.29	12.57	523.33	725.91	0.21	0.06
6.35	12	SLE Q	3	1	0.00	-18772.80	0.00	6901.59	43.00	98.00	0.50	20.00	169.29	12.57	523.33	696.33	0.20	0.06
6.35	11	SLE F	3	1	0.00	-19197.40	0.00	7138.41	43.00	98.00	0.50	20.00	169.29	12.57	523.33	725.91	0.21	0.06
7.10	12	SLE Q	3	1	75.00	-18397.80	0.00	10367.10	43.00	98.00	0.50	20.00	169.29	12.57	523.33	1310.18	0.38	0.11
7.10	11	SLE F	3	1	75.00	-18822.40	0.00	10735.30	43.00	98.00	0.50	20.00	169.29	12.57	523.33	1363.12	0.40	0.11

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	2248.36	2.50	39564.40	57483.20	39564.40	0.50	0.35	100.39	2.50	30713.30	55779.30	30713.30	17.597
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54712.50	39564.40	0.50	0.35	22116.80	2.50	30713.30	53090.70	30713.30	1.389
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	15055.90	2.50	39564.40	54712.50	39564.40	0.50	0.35	11036.40	2.50	30713.30	53090.70	30713.30	2.628
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2248.36	2.50	26376.30	57438.10	26376.30	0.50	0.35	100.39	2.50	20475.50	55735.60	20475.50	11.731
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	15055.90	2.50	26376.30	54712.50	26376.30	0.50	0.35	11036.40	2.50	20475.50	53090.70	20475.50	1.752
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2248.36	2.50	39564.40	57302.90	39564.40	0.50	0.35	100.39	2.50	30713.30	55604.30	30713.30	17.597
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54712.50	39564.40	0.50	0.35	22116.80	2.50	30713.30	53090.70	30713.30	1.389
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	15055.90	2.50	39564.40	54712.50	39564.40	0.50	0.35	11036.40	2.50	30713.30	53090.70	30713.30	2.628
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.45	7735.32	2.50	39564.40	53449.90	39564.40	0.50	0.35	341.17	2.50	30713.30	51865.50	30713.30	5.115
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.45	5484.81	2.50	39564.40	51765.60	39564.40	0.50	0.35	3630.51	2.50	30713.30	50231.10	30713.30	7.213
2.80	3.35	ø8/10	2	2	5	SLV	0.40	0.45	7246.04	2.50	39564.40	51963.40	39564.40	0.50	0.35	1316.79	2.50	30713.30	50423.10	30713.30	5.460
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.45	7735.32	2.50	26376.30	53400.30	26376.30	0.50	0.35	341.17	2.50	20475.50	51817.40	20475.50	3.410
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.45	5484.81	2.50	26376.30	51727.40	26376.30	0.50	0.35	3630.51	2.50	20475.50	50194.10	20475.50	4.809
3.35	5.55	ø8/15	2	2	5	SLV	0.40	0.45	7246.04	2.50	26376.30	51925.30	26376.30	0.50	0.35	1316.79	2.50	20475.50	50386.10	20475.50	3.640
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.45	7735.32	2.50	39564.40	53201.90	39564.40	0.50	0.35	341.17	2.50	30713.30	51624.90	30713.30	5.115
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.45	5484.81	2.50	39564.40	51574.80	39564.40	0.50	0.35	3630.51	2.50	30713.30	50046.00	30713.30	7.213
5.55	6.10	ø8/10	2	2	5	SLV	0.40	0.45	7246.04	2.50	39564.40	51772.70	39564.40	0.50	0.35	1316.79	2.50	30713.30	50238.00	30713.30	5.460
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	7763.86	2.50	39564.40	52416.50	39564.40	0.50	0.35	1966.50	2.50	30713.30	50862.70	30713.30	5.096
6.35	7.10	ø8/10	2	2	1	SLV	0.40	0.45	5333.40	2.50	39564.40	51009.80	39564.40	0.50	0.35	5982.75	2.50	30713.30	49497.80	30713.30	5.134
6.35	7.10	ø8/10	2	2	5	SLV	0.40	0.45	6733.98	2.50	39564.40	51213.40	39564.40	0.50	0.35	2862.66	2.50	30713.30	49695.30	30713.30	5.875

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52391 ω_{Wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.13676 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=13.6616
  0.09727 >= 0.0598 [7.4.29]
- CC=5 α_e=0.52391 ω_{Wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.13676 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=14.3235
  0.09727 >= 0.05542 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
104	N	ø12/ 5	Y+	E	2	15.71	13.70	0.60	0.39	0.20	13.57
			Z+	I	2	7.16	6.03	0.50	0.29	0.20	13.57
			Z-	I	2	7.16	6.03	0.50	0.29	0.20	13.57
204	N	ø8/ 6	Z+	I	2	6.28	4.02	0.50	0.29	0.15	4.02
			Z-	I	2	6.28	4.02	0.50	0.29	0.15	4.02
304	N	ø12/ 4	Y+	E	2	12.57	12.57	0.50	0.39	0.20	15.83
			Z+	I	2	8.04	6.03	0.50	0.29	0.20	15.83
			Z-	I	2	8.04	6.03	0.50	0.29	0.20	15.83

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
104	Y+	5	SLV	7246.04	60366.50	6.24	10.08	156618.00	139038.00	442556.00	---	---
		5	SLV	7246.04	60366.50	7.62	13.32	153564.00	114366.00	442556.00	---	---
	Z+	5	SLV	-3630.51	53164.00	6.24	10.08	122964.00	424881.00	531066.00	---	---
		5	SLV	-3630.51	53164.00	7.62	13.32	121114.00	374689.00	531066.00	---	---
	Z-	5	SLV	-3630.51	53164.00	6.24	10.08	122964.00	424881.00	531066.00	---	---
		5	SLV	-3630.51	53164.00	7.62	13.32	121114.00	374689.00	531066.00	---	---
204	Z+	5	SLV	-5982.75	38371.10	4.72	5.76	128460.00	173283.00	209804.00	---	---
		5	SLV	-5982.75	38371.10	6.07	7.15	126633.00	143178.00	209804.00	---	---
	Z-	5	SLV	-5982.75	38371.10	4.72	5.76	128460.00	173283.00	209804.00	---	---
		5	SLV	-5982.75	38371.10	6.07	7.15	126633.00	143178.00	209804.00	---	---
304	Y+	1	SLV	0.00	54090.00	0.00	5.03	141412.00	434808.00	619577.00	---	---
	Z+	1	SLV	0.00	60580.80	0.00	5.03	130971.00	1169920.00	619577.00	60580.80	61957.70

	Z-	1	SLV	0.00	60580.80	0.00	5.03	130971.00	1169920.00	619577.00	60580.80	61957.70

Pilastrata n. 5

Nodi: 5 105 205 305

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-20005.60	14405.60		14405.60	0.00		0.00	-20005.60	15846.10	0.00	1.100
0.00	1	SLV	1	1	0.00	-20005.60	14405.60		14405.60	0.00		0.00	-20005.60	15846.10	0.00	1.100
2.50	5(α)	SLV	1	1	250.00	-17046.10	-2332.67	1.96	-4560.40	0.00	1.30	0.00	-17046.10	-15644.10	0.00	3.430
2.80	5(α)	SLV	2	1	0.00	-11036.70	0.00	3.08	0.00	-11764.70	1.30	-15294.10	-11036.70	0.00	-19946.40	1.304
2.80	5(α)	SLV	2	1	0.00	-11036.70	0.00	3.08	0.00	-11764.70	1.30	-15294.10	-11036.70	0.00	-19946.40	1.304
6.10	1(α)	SLV	2	1	330.00	-10257.40	5905.23	1.30	7676.80	0.00	1.39	0.00	-10257.40	15091.90	0.00	1.966
6.35	5(α)	SLV	3	1	0.00	-7656.45	0.00	1.90	0.00	5268.21	1.30	6848.67	-7656.45	0.00	19506.60	2.848
6.35	5(α)	SLV	3	1	0.00	-7656.45	0.00	1.90	0.00	5268.21	1.30	6848.67	-7656.45	0.00	19506.60	2.848
7.10	5	SLV	3	1	75.00	-7281.45	0.00		0.00	9804.58		9804.58	-7281.45	0.00	19457.80	1.985

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-26668.90	0.00	10631.70	16.59	16.59	102.41	1864.74
0.00	12	SLE Q	1	1	0.00	-24047.60	0.00	9537.44	16.59	16.59	91.88	1669.06
0.00	10	SLE R	1	1	0.00	-26668.90	0.00	10631.70	16.59	16.59	102.41	1864.74
0.00	12	SLE Q	1	1	0.00	-24047.60	0.00	9537.44	16.59	16.59	91.88	1669.06
2.50	10	SLE R	1	1	250.00	-25418.90	3086.34	0.00	12.57	20.61	24.14	316.92
2.50	12	SLE Q	1	1	250.00	-22797.60	2406.18	0.00	0.00	33.18	19.80	262.88
2.80	10	SLE R	2	1	0.00	-15434.40	-5707.30	0.00	16.59	16.59	39.08	578.15
2.80	12	SLE Q	2	1	0.00	-14255.80	-4879.79	0.00	16.59	16.59	33.56	467.18
2.80	10	SLE R	2	1	0.00	-15434.40	-5707.30	0.00	16.59	16.59	39.08	578.15
2.80	12	SLE Q	2	1	0.00	-14255.80	-4879.79	0.00	16.59	16.59	33.56	467.18
6.10	10	SLE R	2	1	330.00	-13784.40	0.00	1663.75	10.30	22.87	16.55	202.62
6.10	12	SLE Q	2	1	330.00	-12605.80	0.00	1652.12	10.30	22.87	16.31	197.04
6.35	10	SLE R	3	1	0.00	-10972.00	1738.92	0.00	12.57	20.61	12.78	163.10
6.35	12	SLE Q	3	1	0.00	-9797.78	1381.80	0.00	12.57	20.61	10.39	134.31
6.35	10	SLE R	3	1	0.00	-10972.00	1738.92	0.00	12.57	20.61	12.78	163.10
6.35	12	SLE Q	3	1	0.00	-9797.78	1381.80	0.00	12.57	20.61	10.39	134.31
7.10	10	SLE R	3	1	75.00	-10597.00	6218.50	0.00	16.59	16.59	41.56	798.17
7.10	12	SLE Q	3	1	75.00	-9422.78	5194.69	0.00	16.59	16.59	34.82	650.80

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-24047.60	9537.44	0.00	43.00	132.01	0.50	18.22	157.37	10.30	403.59	1669.06	0.55	0.15
0.00	11	SLE F	1	1	0.00	-24630.20	9780.94	0.00	43.00	132.01	0.50	18.22	157.38	10.30	403.67	1712.63	0.50	0.13
0.00	12	SLE Q	1	1	0.00	-24047.60	9537.44	0.00	43.00	132.01	0.50	18.22	157.37	10.30	403.59	1669.06	0.55	0.15
0.00	11	SLE F	1	1	0.00	-24630.20	9780.94	0.00	43.00	132.01	0.50	18.22	157.38	10.30	403.67	1712.63	0.50	0.13
2.80	12	SLE Q	2	1	0.00	-14255.80	0.00	-4879.79	43.00	98.00	0.50	20.00	142.90	12.57	357.53	467.18	0.14	0.03
2.80	11	SLE F	2	1	0.00	-14477.70	0.00	-5075.23	43.00	98.00	0.50	20.00	143.36	12.57	360.43	494.77	0.14	0.04
2.80	12	SLE Q	2	1	0.00	-14255.80	0.00	-4879.79	43.00	98.00	0.50	20.00	142.90	12.57	357.53	467.18	0.14	0.03
2.80	11	SLE F	2	1	0.00	-14477.70	0.00	-5075.23	43.00	98.00	0.50	20.00	143.36	12.57	360.43	494.77	0.14	0.04
7.10	12	SLE Q	3	1	75.00	-9422.78	0.00	5194.69	43.00	98.00	0.50	20.00	149.87	12.57	401.29	650.80	0.19	0.05
7.10	11	SLE F	3	1	75.00	-9643.54	0.00	5391.00	43.00	98.00	0.50	20.00	150.01	12.57	402.21	679.17	0.20	0.05

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	1743.31	2.50	39564.40	53471.40	39564.40	0.50	0.35	6785.73	2.50	30713.30	51886.40	30713.30	4.526
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	52243.00	39564.40	0.50	0.35	20700.80	2.50	30713.30	50694.40	30713.30	1.484
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	27939.30	2.50	39564.40	52243.20	39564.40	0.50	0.35	0.00	2.50	30713.30	50694.60	30713.30	1.416
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	1743.31	2.50	26376.30	53426.30	26376.30	0.50	0.35	6785.73	2.50	20475.50	51842.60	20475.50	3.017
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	26376.30	50647.40	26376.30	0.50	0.35	19720.70	2.50	20475.50	49146.10	20475.50	1.038
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	26141.70	2.50	26376.30	50647.60	26376.30	0.50	0.35	0.00	2.50	20475.50	49146.30	20475.50	1.009
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	1743.31	2.50	39564.40	53291.10	39564.40	0.50	0.35	6785.73	2.50	30713.30	51711.40	30713.30	4.526
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	52243.00	39564.40	0.50	0.35	20700.80	2.50	30713.30	50694.40	30713.30	1.484
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	27939.30	2.50	39564.40	52243.20	39564.40	0.50	0.35	0.00	2.50	30713.30	50694.60	30713.30	1.416
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.45	3381.12	2.50	39564.40	51288.20	39564.40	0.50	0.35	2193.20	2.50	30713.30	49767.90	30713.30	11.702
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.45	3403.95	2.50	39564.40	50585.90	39564.40	0.50	0.35	4410.65	2.50	30713.30	49086.40	30713.30	6.963
2.80	3.35	ø8/10	2	2	5	SLV	0.40	0.45	5733.46	2.50	39564.40	50706.70	39564.40	0.50	0.35	2452.80	2.50	30713.30	49203.60	30713.30	6.901
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.45	3381.12	2.50	26376.30	51238.60	26376.30	0.50	0.35	2193.20	2.50	20475.50	49719.80	20475.50	7.801
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.45	3403.95	2.50	26376.30	50547.70	26376.30	0.50	0.35	4410.65	2.50	20475.50	49049.40	20475.50	4.642
3.35	5.55	ø8/15	2	2	5	SLV	0.40	0.45	5733.46	2.50	26376.30	50668.50	26376.30	0.50	0.35	2452.80	2.50	20475.50	49166.60	20475.50	4.600
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.45	3381.12	2.50	39564.40	51040.20	39564.40	0.50	0.35	2193.20	2.50	30713.30	49527.30	30713.30	11.702
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.45	3403.95	2.50	39564.40	50395.10	39564.40	0.50	0.35	4410.65	2.50	30713.30	48901.30	30713.30	6.963
5.55	6.10	ø8/10	2	2	5	SLV	0.40	0.45	5733.46	2.50	39564.40	50515.90	39564.40	0.50	0.35	2452.80	2.50	30713.30	49018.50	30713.30	6.901
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	8432.18	2.50	39564.40	50431.60	39564.40	0.50	0.35	4059.79	2.50	30713.30	48936.70	30713.30	4.692
6.35	7.10	ø8/10	2	2	1	SLV	0.40	0.45	5590.83	2.50	39564.40	49852.90	39564.40	0.50	0.35	3444.29	2.50	30713.30	48375.20	30713.30	7.077
6.35	7.10	ø8/10	2	2	1(TG)	SND	0.40	0.45	6380.04	2.50	39564.40	50190.30	39564.40								6.201
6.35	7.10	ø8/10	2	2	1(TG)	SLV								0.50	0.35	0.00	2.50	30713.30	47915.00	30713.30	---

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52391 ω_{Wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.085618 $\varepsilon_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=21.8227
  0.09727 >= 0.02435 [7.4.29]

- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.085618 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=22.88
  0.09727 >= 0.02161 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
105	N	ø8/10	Y+	E	2	9.42	7.16	0.50	0.39	0.20	3.02
			Z+	E	2	6.03	6.03	0.50	0.29	0.20	3.02
205	N	ø8/ 8	Y+	E	2	4.02	4.02	0.40	0.39	0.15	3.02
			Z+	E	2	6.28	4.02	0.50	0.29	0.15	3.02
305	N	ø8/10	Y+	E	2	8.04	6.03	0.50	0.39	0.20	3.02
			Z+	E	2	6.03	6.03	0.50	0.29	0.20	3.02

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
105	Y+	5	SLV	5733.46	34834.10	3.17	4.90	138800.00	25149.70	118015.00	---	---
		5	SLV	5733.46	34834.10	5.02	8.20	135463.00	1873.91	118015.00	---	---
	Z+	1	SLV	4410.65	21552.60	3.42	5.39	103238.00	0.00	118015.00	---	---
		5	SLV	4410.65	21552.60	5.02	8.20	101081.00	0.00	118015.00	---	---
205	Y+	1	SLV	6210.94	11097.90	2.38	2.95	112166.00	0.00	196691.00	---	---
		5	SLV	6210.94	11097.90	3.43	4.55	110670.00	0.00	196691.00	---	---
	Z+	5	SLV	3444.29	23600.70	2.20	2.70	104856.00	9517.09	157353.00	---	---
		5	SLV	3444.29	23600.70	3.43	4.55	103226.00	0.00	157353.00	---	---
305	Y+	1	SLV	0.00	34617.60	0.00	2.27	144342.00	87620.50	118015.00	---	---
	Z+	1	SLV	0.00	25963.20	0.00	2.27	107707.00	89921.90	118015.00	---	---

Pilastrata n. 6

Nodi: 6 106 206 306

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-40151.10	-17781.40		-17781.40	0.00		0.00	-40151.10	-18951.80	0.00	1.066
0.00	1	SLV	1	1	0.00	-40151.10	-17781.40		-17781.40	0.00		0.00	-40151.10	-18951.80	0.00	1.066
2.50	3(α)	SLV	1	1	250.00	-39458.90	0.00	1.30	0.00	-2130.92	5.64	-12013.90	-39458.90	0.00	-24585.10	2.046
2.80	7(α)	SLV	2	1	0.00	-22173.40	0.00	3.92	0.00	-6356.67	3.53	-22466.20	-22173.40	0.00	-23302.50	1.037
2.80	7(α)	SLV	2	1	0.00	-22173.40	0.00	3.92	0.00	-6356.67	3.53	-22466.20	-22173.40	0.00	-23302.50	1.037
6.10	5(α)	SLV	2	1	330.00	-19831.80	0.00	1.00	0.00	-6189.98	1.30	-8046.97	-19831.80	0.00	-23127.30	2.874
6.35	5(α)	SLV	3	1	0.00	-17315.70	0.00	1.00	0.00	3234.09	1.30	4204.32	-17315.70	0.00	22913.10	5.450
6.35	5(α)	SLV	3	1	0.00	-17315.70	0.00	1.00	0.00	3234.09	1.30	4204.32	-17315.70	0.00	22913.10	5.450
7.10	5	SLV	3	1	75.00	-16940.70	0.00		0.00	-8962.20		-8962.20	-16940.70	0.00	-22873.40	2.552

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-48751.20	0.00	-13414.30	18.85	18.85	121.27	1639.77
0.00	12	SLE Q	1	1	0.00	-42841.50	0.00	-11838.80	18.85	18.85	107.01	1451.63
0.00	10	SLE R	1	1	0.00	-48751.20	0.00	-13414.30	18.85	18.85	121.27	1639.77
0.00	12	SLE Q	1	1	0.00	-42841.50	0.00	-11838.80	18.85	18.85	107.01	1451.63
2.50	10	SLE R	1	1	250.00	-47501.20	0.00	1587.83	0.00	37.70	27.52	377.01
2.50	12	SLE Q	1	1	250.00	-41591.50	0.00	1356.58	0.00	37.70	23.91	328.00
2.80	10	SLE R	2	1	0.00	-24971.30	0.00	2889.97	12.57	25.13	27.65	339.15
2.80	12	SLE Q	2	1	0.00	-22342.90	0.00	2633.85	12.57	25.13	25.13	307.33
2.80	10	SLE R	2	1	0.00	-24971.30	0.00	2889.97	12.57	25.13	27.65	339.15
2.80	12	SLE Q	2	1	0.00	-22342.90	0.00	2633.85	12.57	25.13	25.13	307.33
6.10	10	SLE R	2	1	330.00	-23321.30	0.00	136.02	0.00	37.70	9.86	144.86
6.10	12	SLE Q	2	1	330.00	-20692.90	-105.12	0.00	0.00	37.70	8.53	126.43
6.35	10	SLE R	3	1	0.00	-20610.70	427.37	0.00	0.00	37.70	9.90	142.62
6.35	12	SLE Q	3	1	0.00	-17971.70	409.12	0.00	0.00	37.70	8.80	126.25
6.35	10	SLE R	3	1	0.00	-20610.70	427.37	0.00	0.00	37.70	9.90	142.62
6.35	12	SLE Q	3	1	0.00	-17971.70	409.12	0.00	0.00	37.70	8.80	126.25
7.10	10	SLE R	3	1	75.00	-20235.70	-1913.24	0.00	0.00	37.70	16.27	217.42
7.10	12	SLE Q	3	1	75.00	-17596.70	-1767.84	0.00	0.00	37.70	14.64	194.75

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-42841.50	-11838.80	0.00	43.00	131.33	0.50	20.00	143.77	12.57	362.98	1451.63	0.50	0.12
0.00	11	SLE F	1	1	0.00	-44154.70	-12188.80	0.00	43.00	131.33	0.50	20.00	143.75	12.57	362.86	1493.43	0.43	0.11
0.00	12	SLE Q	1	1	0.00	-42841.50	-11838.80	0.00	43.00	131.33	0.50	20.00	143.77	12.57	362.98	1451.63	0.50	0.12
0.00	11	SLE F	1	1	0.00	-44154.70	-12188.80	0.00	43.00	131.33	0.50	20.00	143.75	12.57	362.86	1493.43	0.43	0.11

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	1379.14	2.50	39564.40	57785.00	39564.40	0.50	0.35	8454.49	2.50	30713.30	56072.20	30713.30	3.633
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54425.50	39564.40	0.50	0.35	24205.60	2.50	30713.30	52812.20	30713.30	1.269

0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	31404.40	2.50	39564.40	54425.90	39564.40	0.50	0.35	0.00	2.50	30713.30	52812.60	30713.30	1.260
0.50	2.00	ø8/20	2	2	9	SLU	0.40	0.45	1379.14	2.50	19782.20	57739.90	19782.20	0.50	0.35	8454.49	2.50	15356.70	56028.40	15356.70	1.816
0.50	2.00	ø8/20	2	2	1(TG)	SLV	0.40	0.45	15673.90	2.50	19782.20	54425.90	19782.20	0.50	0.35	12124.90	2.50	15356.70	52812.60	15356.70	1.262
2.00	2.50	ø8/15	2	2	9	SLU	0.40	0.45	1379.14	2.50	26376.30	57604.70	26376.30	0.50	0.35	8454.49	2.50	20475.50	55897.20	20475.50	2.422
2.00	2.50	ø8/15	2	2	1(TG)	SLV	0.40	0.45	15673.90	2.50	26376.30	54425.90	26376.30	0.50	0.35	12124.90	2.50	20475.50	52812.60	20475.50	1.683
2.80	3.35	ø8/15	2	2	9	SLU	0.40	0.45	468.66	2.50	26376.30	53133.20	26376.30	0.50	0.35	1132.45	2.50	20475.50	51558.30	20475.50	18.081
2.80	3.35	ø8/15	2	2	1	SLV	0.40	0.45	1777.27	2.50	26376.30	51563.30	26376.30	0.50	0.35	2649.16	2.50	20475.50	50034.90	20475.50	7.729
2.80	3.35	ø8/15	2	2	5	SLV	0.40	0.45	4449.80	2.50	26376.30	51501.40	26376.30	0.50	0.35	1347.83	2.50	20475.50	49974.80	20475.50	5.928
3.35	5.55	ø8/20	2	2	9	SLU	0.40	0.45	468.66	2.50	19782.20	53083.60	19782.20	0.50	0.35	1132.45	2.50	15356.70	51510.10	15356.70	13.561
3.35	5.55	ø8/20	2	2	1	SLV	0.40	0.45	1777.27	2.50	19782.20	51525.20	19782.20	0.50	0.35	2649.16	2.50	15356.70	49997.90	15356.70	5.797
3.35	5.55	ø8/20	2	2	5	SLV	0.40	0.45	4449.80	2.50	19782.20	51463.30	19782.20	0.50	0.35	1347.83	2.50	15356.70	49937.80	15356.70	4.446
5.55	6.10	ø8/15	2	2	9	SLU	0.40	0.45	468.66	2.50	26376.30	52885.30	26376.30	0.50	0.35	1132.45	2.50	20475.50	51317.60	20475.50	18.081
5.55	6.10	ø8/15	2	2	1	SLV	0.40	0.45	1777.27	2.50	26376.30	51372.60	26376.30	0.50	0.35	2649.16	2.50	20475.50	49849.80	20475.50	7.729
5.55	6.10	ø8/15	2	2	5	SLV	0.40	0.45	4449.80	2.50	26376.30	51310.70	26376.30	0.50	0.35	1347.83	2.50	20475.50	49789.70	20475.50	5.928
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	4437.77	2.50	39564.40	52297.80	39564.40	0.50	0.35	1086.81	2.50	30713.30	50747.60	30713.30	8.915
6.35	7.10	ø8/10	2	2	3(TG)	SND	0.40	0.45	984.35	2.50	39564.40	51147.40	39564.40	0.50	0.35	4790.53	2.50	30713.30	49631.30	30713.30	6.411
6.35	7.10	ø8/10	2	2	5	SLV	0.40	0.45	8751.42	2.50	39564.40	50866.60	39564.40	0.50	0.35	1224.35	2.50	30713.30	49358.80	30713.30	4.521

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.13082 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=14.2822
  0.09727 >= 0.05568 [7.4.29]
- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.13082 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=14.9742
  0.09727 >= 0.05149 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
106	N	ø16/ 4	Y+	I	2	16.59	7.16	0.50	0.38	0.20	28.15
			Y-	I	2	16.59	7.16	0.50	0.38	0.20	28.15
			Z-	E	2	6.03	6.03	0.50	0.28	0.20	28.15
206	N	ø8/ 8	Y+	I	2	5.15	4.02	0.40	0.39	0.15	3.02
			Y-	I	2	5.15	4.02	0.40	0.39	0.15	3.02
306	N	ø16/ 5	Y+	I	2	14.07	6.03	0.50	0.38	0.20	24.13
			Y-	I	2	14.07	6.03	0.50	0.38	0.20	24.13
			Z-	E	2	6.03	6.03	0.50	0.28	0.20	24.13

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
106	Y+	1	SLV	-4449.80	97780.40	6.04	11.18	162859.00	966582.00	1101470.00	---	---
		1	SLV	-4449.80	97780.40	6.80	12.72	161540.00	910113.00	1101470.00	---	---
	Y-	1	SLV	-4449.80	97780.40	6.04	11.18	162859.00	966582.00	1101470.00	---	---
		1	SLV	-4449.80	97780.40	6.80	12.72	161540.00	910113.00	1101470.00	---	---
	Z-	1	SLV	-2649.16	23314.10	6.04	11.18	94252.70	0.00	1101470.00	---	---
		1	SLV	-2649.16	23314.10	6.80	12.72	93265.80	0.00	1101470.00	---	---
206	Y+	1	SLV	-8751.42	30734.30	4.81	5.57	137584.00	34753.00	196691.00	---	---
		1	SLV	-8751.42	30734.30	5.51	6.32	136572.00	25752.90	196691.00	---	---
	Y-	1	SLV	-8751.42	30734.30	4.81	5.57	137584.00	34753.00	196691.00	---	---
		1	SLV	-8751.42	30734.30	5.51	6.32	136572.00	25752.90	196691.00	---	---
306	Y+	1	SLV	0.00	86544.10	0.00	4.71	173101.00	1389930.00	944117.00	86544.10	94411.70
	Y-	1	SLV	0.00	86544.10	0.00	4.71	173101.00	1389930.00	944117.00	86544.10	94411.70
	Z-	1	SLV	0.00	25963.20	0.00	4.71	101846.00	116828.00	944117.00	---	---

Pilastrata n. 7

Nodi: 7 107 307

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-70574.20	0.00		0.00	15040.20		15040.20	-70574.20	0.00	29616.40	1.969
0.00	5	SLV	1	1	0.00	-70574.20	0.00		0.00	15040.20		15040.20	-70574.20	0.00	29616.40	1.969
2.50	3(α)	SLV	1	1	250.00	-70616.20	0.00	2.51	0.00	-3448.38	6.90	-23804.30	-70616.20	0.00	-29618.90	1.244
2.80	7(α)	SLV	2	1	0.00	-34264.40	961.40	12.26	11789.40	0.00	7.64	0.00	-34264.40	20640.90	0.00	1.751
2.80	7(α)	SLV	2	1	0.00	-34264.40	961.40	12.26	11789.40	0.00	7.64	0.00	-34264.40	20640.90	0.00	1.751
7.10	5	SLV	2	1	430.00	-32090.90	0.00		0.00	-11512.90		-11512.90	-32090.90	0.00	-26933.40	2.339

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	5	SND	2	1	0.00	-33122.30	0.00	0.00	-16128.70	-16128.70	-33122.30	0.00	-22287.90	1.382
2.80	5	SND	2	1	0.00	-33122.30	0.00	0.00	-16128.70	-16128.70	-33122.30	0.00	-22287.90	1.382

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-83769.20	1348.42	0.00	0.00	43.23	37.24	540.76
0.00	12	SLE Q	1	1	0.00	-72076.60	1356.06	0.00	0.00	43.23	32.86	474.92
0.00	10	SLE R	1	1	0.00	-83769.20	1348.42	0.00	0.00	43.23	37.24	540.76
0.00	12	SLE Q	1	1	0.00	-72076.60	1356.06	0.00	0.00	43.23	32.86	474.92
2.50	10	SLE R	1	1	250.00	-82519.20	-2325.49	0.00	0.00	43.23	40.83	581.74

2.50	12	SLE Q	1	1	250.00	-70826.60	-2102.79	0.00	0.00	43.23	35.49	504.56
2.80	10	SLE R	2	1	0.00	-40135.90	2879.14	0.00	0.00	43.23	27.13	368.92
2.80	12	SLE Q	2	1	0.00	-34948.20	2546.87	0.00	0.00	43.23	23.79	323.20
2.80	10	SLE R	2	1	0.00	-40135.90	2879.14	0.00	0.00	43.23	27.13	368.92
2.80	12	SLE Q	2	1	0.00	-34948.20	2546.87	0.00	0.00	43.23	23.79	323.20
7.10	10	SLE R	2	1	430.00	-37985.90	-3651.69	0.00	0.00	43.23	29.55	394.90
7.10	12	SLE Q	2	1	430.00	-32798.20	-3265.05	0.00	0.00	43.23	26.01	346.72

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/ 5	2	2	9	SLU	0.40	0.45	2138.59	2.13	67364.40	67364.40	67364.40	0.50	0.35	47.72	2.43	59743.30	59743.30	59743.30	31.499
0.00	0.50	ø8/ 5	2	2	5(TG)	SLV	0.40	0.45	0.00	2.08	65962.50	65962.50	65962.50	0.50	0.35	28743.50	2.38	58553.10	58553.10	58553.10	2.037
0.00	0.50	ø8/ 5	2	2	1(TG)	SLV	0.40	0.45	37354.70	2.08	65880.20	65880.10	65880.10	0.50	0.35	0.00	2.38	58483.30	58483.30	58483.30	1.764
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2138.59	2.50	26376.30	60353.10	26376.30	0.50	0.35	47.72	2.50	20475.50	58564.10	20475.50	12.334
0.50	2.00	ø8/15	2	2	1(TG)	SLV	0.40	0.45	18652.30	2.50	26376.30	58198.60	26376.30	0.50	0.35	14364.90	2.50	20475.50	56473.50	20475.50	1.414
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	18736.20	2.50	26376.30	58316.80	26376.30	0.50	0.35	14352.50	2.50	20475.50	56588.20	20475.50	1.408
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2138.59	2.50	39564.40	60353.10	39564.40	0.50	0.35	47.72	2.50	30713.30	58564.10	30713.30	18.500
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	58316.80	39564.40	0.50	0.35	28743.50	2.50	30713.30	56588.20	30713.30	1.069
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	37354.70	2.50	39564.40	58198.60	39564.40	0.50	0.35	0.00	2.50	30713.30	56473.50	30713.30	1.059
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.45	2162.29	2.50	39564.40	56103.50	39564.40	0.50	0.35	431.47	2.50	30713.30	54440.50	30713.30	18.297
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9968.22	2.50	39564.40	52931.00	39564.40	0.50	0.35	7523.94	2.50	30713.30	51362.00	30713.30	3.969
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19849.10	2.50	39564.40	52930.80	39564.40	0.50	0.35	0.00	2.50	30713.30	51361.80	30713.30	1.993
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.45	2162.29	2.50	26376.30	56038.90	26376.30	0.50	0.35	431.47	2.50	20475.50	54377.80	20475.50	12.198
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	9968.22	2.50	26376.30	52931.00	26376.30	0.50	0.35	7523.94	2.50	20475.50	51362.00	20475.50	2.646
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	19849.10	2.50	26376.30	52930.80	26376.30	0.50	0.35	0.00	2.50	20475.50	51361.80	20475.50	1.329
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.45	2162.29	2.50	39564.40	55780.40	39564.40	0.50	0.35	431.47	2.50	30713.30	54127.00	30713.30	18.297
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9968.22	2.50	39564.40	52931.00	39564.40	0.50	0.35	7523.94	2.50	30713.30	51362.00	30713.30	3.969
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19849.10	2.50	39564.40	52930.80	39564.40	0.50	0.35	0.00	2.50	30713.30	51361.80	30713.30	1.993

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.21141 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=17.6305
  0.22885 >= 0.11154 [7.4.29]
- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.21141 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=18.4847
  0.22885 >= 0.10477 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
107	S	ø8/10	Y+	I	2	31.42	18.85	0.60	0.39	0.20	3.02
			Z+	I	2	7.16	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	31.42	18.85	0.60	0.39	0.20	3.02
			Z-	I	2	7.16	6.03	0.50	0.29	0.20	3.02
307	S	ø8/10	Y+	I	2	28.27	21.99	0.50	0.39	0.20	3.02
			Z+	I	2	6.03	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	28.27	21.99	0.50	0.39	0.20	3.02
			Z-	I	2	6.03	6.03	0.50	0.29	0.20	3.02

Pilastrata n. 8

Nodi: 8 108 308

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-67530.80	0.00		0.00	14882.50		14882.50	-67530.80	0.00	28152.70	1.892
0.00	5	SLV	1	1	0.00	-67530.80	0.00		0.00	14882.50		14882.50	-67530.80	0.00	28152.70	1.892
2.50	1(α)	SLV	1	1	250.00	-67322.20	0.00	2.54	0.00	-3539.95	6.48	-22927.70	-67322.20	0.00	-28143.20	1.227
2.80	5(α)	SLV	2	1	0.00	-32868.20	1695.64	5.73	9708.34	0.00	7.51	0.00	-32868.20	18030.90	0.00	1.857
2.80	5(α)	SLV	2	1	0.00	-32868.20	1695.64	5.73	9708.34	0.00	7.51	0.00	-32868.20	18030.90	0.00	1.857
7.10	5	SLV	2	1	430.00	-30718.20	0.00		0.00	-11430.00		-11430.00	-30718.20	0.00	-24431.40	2.137

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	7	SND	2	1	0.00	-31728.80	0.00	0.00	-15967.70	-15967.70	-31728.80	0.00	-20980.70	1.314
2.80	7	SND	2	1	0.00	-31728.80	0.00	0.00	-15967.70	-15967.70	-31728.80	0.00	-20980.70	1.314

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-80218.60	1278.91	0.00	0.00	36.95	36.80	534.83
0.00	12	SLE Q	1	1	0.00	-69018.60	1297.91	0.00	0.00	36.95	32.49	470.00
0.00	10	SLE R	1	1	0.00	-80218.60	1278.91	0.00	0.00	36.95	36.80	534.83
0.00	12	SLE Q	1	1	0.00	-69018.60	1297.91	0.00	0.00	36.95	32.49	470.00
2.50	10	SLE R	1	1	250.00	-78968.60	-2238.40	0.00	0.00	36.95	40.35	575.30
2.50	12	SLE Q	1	1	250.00	-67768.60	-2028.48	0.00	0.00	36.95	35.08	499.06
2.80	10	SLE R	2	1	0.00	-38573.40	2831.01	0.00	0.00	36.95	27.04	367.60
2.80	12	SLE Q	2	1	0.00	-33588.30	2505.93	0.00	0.00	36.95	23.71	322.12
2.80	10	SLE R	2	1	0.00	-38573.40	2831.01	0.00	0.00	36.95	27.04	367.60
2.80	12	SLE Q	2	1	0.00	-33588.30	2505.93	0.00	0.00	36.95	23.71	322.12

7.10	10	SLE R	2	1	430.00	-36423.40	-3617.95	0.00	0.00	36.95	29.53	394.41
7.10	12	SLE Q	2	1	430.00	-31438.30	-3237.00	0.00	0.00	36.95	26.00	346.39

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/ 5	2	2	9	SLU	0.40	0.45	2049.84	2.13	67364.40	67364.40	67364.40	0.50	0.35	0.00	2.43	59743.30	59743.30	59743.30	32.863
0.00	0.50	ø8/ 5	2	2	5(TG)	SLV	0.40	0.45	0.00	2.07	65665.10	65665.10	65665.10	0.50	0.35	25370.60	2.37	58300.80	58300.80	58300.80	2.298
0.00	0.50	ø8/ 5	2	2	1(TG)	SLV	0.40	0.45	35467.40	2.07	65564.10	65564.10	65564.10	0.50	0.35	0.00	2.37	58215.10	58215.10	58215.10	1.849
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2049.84	2.50	26376.30	60353.10	26376.30	0.50	0.35	0.00	2.50	20475.50	58564.10	20475.50	12.867
0.50	2.00	ø8/15	2	2	1(TG)	SLV	0.40	0.45	17715.80	2.50	26376.30	57746.00	26376.30	0.50	0.35	12672.30	2.50	20475.50	56034.20	20475.50	1.489
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	17781.30	2.50	26376.30	57890.40	26376.30	0.50	0.35	12665.60	2.50	20475.50	56174.40	20475.50	1.483
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2049.84	2.50	39564.40	60353.10	39564.40	0.50	0.35	0.00	2.50	30713.30	58564.10	30713.30	19.301
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	57890.40	39564.40	0.50	0.35	25370.60	2.50	30713.30	56174.40	30713.30	1.211
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	35467.40	2.50	39564.40	57746.00	39564.40	0.50	0.35	0.00	2.50	30713.30	56034.20	30713.30	1.116
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.45	2135.40	2.50	39564.40	55797.90	39564.40	0.50	0.35	0.00	2.50	30713.30	54144.00	30713.30	18.528
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9141.29	2.50	39564.40	52744.00	39564.40	0.50	0.35	6571.91	2.50	30713.30	51180.60	30713.30	4.328
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	18134.50	2.50	39564.40	52743.90	39564.40	0.50	0.35	0.00	2.50	30713.30	51180.40	30713.30	2.182
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.45	2135.40	2.50	26376.30	55733.30	26376.30	0.50	0.35	0.00	2.50	20475.50	54081.30	20475.50	12.352
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	9141.29	2.50	26376.30	52744.00	26376.30	0.50	0.35	6571.91	2.50	20475.50	51180.60	20475.50	2.885
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	18134.50	2.50	26376.30	52743.90	26376.30	0.50	0.35	0.00	2.50	20475.50	51180.40	20475.50	1.454
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.45	2135.40	2.50	39564.40	55474.80	39564.40	0.50	0.35	0.00	2.50	30713.30	53830.40	30713.30	18.528
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9141.29	2.50	39564.40	52744.00	39564.40	0.50	0.35	6571.91	2.50	30713.30	51180.60	30713.30	4.328
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	18134.50	2.50	39564.40	52743.90	39564.40	0.50	0.35	0.00	2.50	30713.30	51180.40	30713.30	2.182

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.45446 ω_{wd}=0.31774 $\mu\Phi_d$=9.792 v_d=0.20258 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=12.51
  0.1444 >= 0.10542 [7.4.29]
- CC=5 α_e=0.45446 ω_{wd}=0.31774 $\mu\Phi_d$=9.792 v_d=0.20258 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=13.116
  0.1444 >= 0.09893 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
108	S	ø8/10	Y+	I	2	30.29	18.85	0.60	0.39	0.20	3.02
			Z+	I	2	6.03	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	30.29	18.85	0.60	0.39	0.20	3.02
			Z-	I	2	6.03	6.03	0.50	0.29	0.20	3.02
308	S	ø8/10	Y+	I	2	27.14	18.85	0.50	0.39	0.20	3.02
			Z+	I	2	6.03	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	27.14	18.85	0.50	0.39	0.20	3.02
			Z-	I	2	6.03	6.03	0.50	0.29	0.20	3.02

Pilastrata n. 9

Nodi: 9 109 309

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-70574.20	0.00		0.00	15040.10		15040.10	-70574.20	0.00	29616.40	1.969
0.00	5	SLV	1	1	0.00	-70574.20	0.00		0.00	15040.10		15040.10	-70574.20	0.00	29616.40	1.969
2.50	3(α)	SLV	1	1	250.00	-70616.20	0.00	2.51	0.00	-3448.39	6.90	-23804.30	-70616.20	0.00	-29618.90	1.244
2.80	7(α)	SLV	2	1	0.00	-34264.30	-961.40	12.26	-11789.40	0.00	7.64	0.00	-34264.30	-20640.80	0.00	1.751
2.80	7(α)	SLV	2	1	0.00	-34264.30	-961.40	12.26	-11789.40	0.00	7.64	0.00	-34264.30	-20640.80	0.00	1.751
7.10	5	SLV	2	1	430.00	-32090.90	0.00		0.00	-11512.90		-11512.90	-32090.90	0.00	-26933.40	2.339

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	5	SND	2	1	0.00	-33122.40	0.00	0.00	-16128.70	-16128.70	-33122.40	0.00	-22287.90	1.382
2.80	5	SND	2	1	0.00	-33122.40	0.00	0.00	-16128.70	-16128.70	-33122.40	0.00	-22287.90	1.382

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-83769.20	1348.41	0.00	0.00	43.23	37.24	540.76
0.00	12	SLE Q	1	1	0.00	-72076.60	1356.05	0.00	0.00	43.23	32.86	474.92
0.00	10	SLE R	1	1	0.00	-83769.20	1348.41	0.00	0.00	43.23	37.24	540.76
0.00	12	SLE Q	1	1	0.00	-72076.60	1356.05	0.00	0.00	43.23	32.86	474.92
2.50	10	SLE R	1	1	250.00	-82519.20	-2325.49	0.00	0.00	43.23	40.83	581.74
2.50	12	SLE Q	1	1	250.00	-70826.60	-2102.79	0.00	0.00	43.23	35.49	504.56
2.80	10	SLE R	2	1	0.00	-40135.90	2879.14	0.00	0.00	43.23	27.13	368.92
2.80	12	SLE Q	2	1	0.00	-34948.20	2546.87	0.00	0.00	43.23	23.79	323.20
2.80	10	SLE R	2	1	0.00	-40135.90	2879.14	0.00	0.00	43.23	27.13	368.92
2.80	12	SLE Q	2	1	0.00	-34948.20	2546.87	0.00	0.00	43.23	23.79	323.20
7.10	10	SLE R	2	1	430.00	-37985.90	-3651.69	0.00	0.00	43.23	29.55	394.90
7.10	12	SLE Q	2	1	430.00	-32798.20	-3265.06	0.00	0.00	43.23	26.01	346.72

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/ 5	2	2	9	SLU	0.40	0.45	2138.59	2.13	67364.40	67364.40	67364.40	0.50	0.35	47.72	2.43	59743.30	59743.30	59743.30	31.500
0.00	0.50	ø8/ 5	2	2	5(TG)	SLV	0.40	0.45	0.00	2.08	65962.50	65962.50	65962.50	0.50	0.35	28743.70	2.38	58553.10	58553.10	58553.10	2.037
0.00	0.50	ø8/ 5	2	2	1(TG)	SLV	0.40	0.45	37354.70	2.08	65880.20	65880.10	65880.10	0.50	0.35	0.00	2.38	58483.30	58483.30	58483.30	1.764
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2138.59	2.50	26376.30	60353.10	26376.30	0.50	0.35	47.72	2.50	20475.50	58564.10	20475.50	12.334
0.50	2.00	ø8/15	2	2	1(TG)	SLV	0.40	0.45	18652.30	2.50	26376.30	58198.60	26376.30	0.50	0.35	14365.00	2.50	20475.50	56473.50	20475.50	1.414
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	18736.20	2.50	26376.30	58316.90	26376.30	0.50	0.35	14352.60	2.50	20475.50	56588.20	20475.50	1.408
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2138.59	2.50	39564.40	60353.10	39564.40	0.50	0.35	47.72	2.50	30713.30	58564.10	30713.30	18.500
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	58316.90	39564.40	0.50	0.35	28743.70	2.50	30713.30	56588.20	30713.30	1.069
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	37354.70	2.50	39564.40	58198.60	39564.40	0.50	0.35	0.00	2.50	30713.30	56473.50	30713.30	1.059
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.45	2162.29	2.50	39564.40	56103.50	39564.40	0.50	0.35	431.47	2.50	30713.30	54440.50	30713.30	18.297
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9968.22	2.50	39564.40	52930.60	39564.40	0.50	0.35	7523.91	2.50	30713.30	51361.70	30713.30	3.969
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19849.10	2.50	39564.40	52930.80	39564.40	0.50	0.35	0.00	2.50	30713.30	51361.80	30713.30	1.993
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.45	2162.29	2.50	26376.30	56038.90	26376.30	0.50	0.35	431.47	2.50	20475.50	54377.80	20475.50	12.198
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	9968.22	2.50	26376.30	52930.60	26376.30	0.50	0.35	7523.91	2.50	20475.50	51361.70	20475.50	2.646
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	19849.10	2.50	26376.30	52930.80	26376.30	0.50	0.35	0.00	2.50	20475.50	51361.80	20475.50	1.329
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.45	2162.29	2.50	39564.40	55780.40	39564.40	0.50	0.35	431.47	2.50	30713.30	54127.00	30713.30	18.297
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9968.22	2.50	39564.40	52930.60	39564.40	0.50	0.35	7523.91	2.50	30713.30	51361.70	30713.30	3.969
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19849.10	2.50	39564.40	52930.80	39564.40	0.50	0.35	0.00	2.50	30713.30	51361.80	30713.30	1.993

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.21141 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=17.6305
  0.22885 >= 0.11154 [7.4.29]
- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.21141 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=18.4847
  0.22885 >= 0.10477 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
109	S	ø8/10	Y+	I	2	31.42	18.85	0.60	0.39	0.20	3.02
			Z+	I	2	7.16	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	31.42	18.85	0.60	0.39	0.20	3.02
			Z-	I	2	7.16	6.03	0.50	0.29	0.20	3.02
309	S	ø8/10	Y+	I	2	28.27	21.99	0.50	0.39	0.20	3.02
			Z+	I	2	6.03	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	28.27	21.99	0.50	0.39	0.20	3.02
			Z-	I	2	6.03	6.03	0.50	0.29	0.20	3.02

Pilastrata n. 10

Nodi: 10 110 210 310

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-40151.10	17781.40		17781.40	0.00		0.00	-40151.10	18951.80	0.00	1.066
0.00	1	SLV	1	1	0.00	-40151.10	17781.40		17781.40	0.00		0.00	-40151.10	18951.80	0.00	1.066
2.50	3(α)	SLV	1	1	250.00	-39458.90	0.00	1.30	0.00	-2130.93	5.64	-12013.90	-39458.90	0.00	-24585.10	2.046
2.80	7(α)	SLV	2	1	0.00	-22173.40	0.00	3.92	0.00	-6356.68	3.53	-22466.10	-22173.40	0.00	-23302.50	1.037
2.80	7(α)	SLV	2	1	0.00	-22173.40	0.00	3.92	0.00	-6356.68	3.53	-22466.10	-22173.40	0.00	-23302.50	1.037
6.10	5(α)	SLV	2	1	330.00	-19831.80	0.00	1.00	0.00	-6189.98	1.30	-8046.97	-19831.80	0.00	-23127.30	2.874
6.35	5(α)	SLV	3	1	0.00	-17315.70	0.00	1.00	0.00	3234.09	1.30	4204.32	-17315.70	0.00	22913.10	5.450
6.35	5(α)	SLV	3	1	0.00	-17315.70	0.00	1.00	0.00	3234.09	1.30	4204.32	-17315.70	0.00	22913.10	5.450
7.10	5	SLV	3	1	75.00	-16940.70	0.00		0.00	-8962.21		-8962.21	-16940.70	0.00	-22873.40	2.552

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-48751.20	0.00	13414.30	18.85	18.85	121.27	1639.76
0.00	12	SLE Q	1	1	0.00	-42841.50	0.00	11838.80	18.85	18.85	107.01	1451.63
0.00	10	SLE R	1	1	0.00	-48751.20	0.00	13414.30	18.85	18.85	121.27	1639.76
0.00	12	SLE Q	1	1	0.00	-42841.50	0.00	11838.80	18.85	18.85	107.01	1451.63
2.50	10	SLE R	1	1	250.00	-47501.20	0.00	-1587.83	0.00	37.70	27.52	377.01
2.50	12	SLE Q	1	1	250.00	-41591.50	0.00	-1356.58	0.00	37.70	23.91	328.00
2.80	10	SLE R	2	1	0.00	-24971.30	0.00	-2889.97	12.57	25.13	27.65	339.15
2.80	12	SLE Q	2	1	0.00	-22342.90	0.00	-2633.85	12.57	25.13	25.13	307.33
2.80	10	SLE R	2	1	0.00	-24971.30	0.00	-2889.97	12.57	25.13	27.65	339.15
2.80	12	SLE Q	2	1	0.00	-22342.90	0.00	-2633.85	12.57	25.13	25.13	307.33
6.10	10	SLE R	2	1	330.00	-23321.30	0.00	-136.02	0.00	37.70	9.86	144.86
6.10	12	SLE Q	2	1	330.00	-20692.90	-105.12	0.00	0.00	37.70	8.53	126.43
6.35	10	SLE R	3	1	0.00	-20610.70	427.37	0.00	0.00	37.70	9.90	142.62
6.35	12	SLE Q	3	1	0.00	-17971.70	409.12	0.00	0.00	37.70	8.80	126.25
6.35	10	SLE R	3	1	0.00	-20610.70	427.37	0.00	0.00	37.70	9.90	142.62
6.35	12	SLE Q	3	1	0.00	-17971.70	409.12	0.00	0.00	37.70	8.80	126.25
7.10	10	SLE R	3	1	75.00	-20235.70	-1913.24	0.00	0.00	37.70	16.27	217.42
7.10	12	SLE Q	3	1	75.00	-17596.70	-1767.84	0.00	0.00	37.70	14.64	194.75

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-42841.50	11838.80	0.00	43.00	131.33	0.50	20.00	143.77	12.57	362.97	1451.63	0.50	0.12

0.00	11	SLE F	1	1	0.00	-44154.70	12188.80	0.00	43.00	131.33	0.50	20.00	143.75	12.57	362.86	1493.42	0.43	0.11
0.00	12	SLE Q	1	1	0.00	-42841.50	11838.80	0.00	43.00	131.33	0.50	20.00	143.77	12.57	362.97	1451.63	0.50	0.12
0.00	11	SLE F	1	1	0.00	-44154.70	12188.80	0.00	43.00	131.33	0.50	20.00	143.75	12.57	362.86	1493.42	0.43	0.11

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	1379.14	2.50	39564.40	57785.00	39564.40	0.50	0.35	8454.49	2.50	30713.30	56072.20	30713.30	3.633
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54425.50	39564.40	0.50	0.35	24205.60	2.50	30713.30	52812.20	30713.30	1.269
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	15730.50	2.50	39564.40	54425.50	39564.40	0.50	0.35	12080.70	2.50	30713.30	52812.20	30713.30	2.515
0.50	2.00	ø8/20	2	2	9	SLU	0.40	0.45	1379.14	2.50	19782.20	57739.90	19782.20	0.50	0.35	8454.49	2.50	15356.70	56028.40	15356.70	1.816
0.50	2.00	ø8/20	2	2	1(TG)	SLV	0.40	0.45	15730.50	2.50	19782.20	54425.50	19782.20	0.50	0.35	12080.70	2.50	15356.70	52812.20	15356.70	1.258
2.00	2.50	ø8/15	2	2	9	SLU	0.40	0.45	1379.14	2.50	26376.30	57604.70	26376.30	0.50	0.35	8454.49	2.50	20475.50	55897.20	20475.50	2.422
2.00	2.50	ø8/15	2	2	1(TG)	SLV	0.40	0.45	15730.50	2.50	26376.30	54425.50	26376.30	0.50	0.35	12080.70	2.50	20475.50	52812.20	20475.50	1.677
2.80	3.35	ø8/15	2	2	9	SLU	0.40	0.45	468.66	2.50	26376.30	53133.20	26376.30	0.50	0.35	1132.45	2.50	20475.50	51558.30	20475.50	18.081
2.80	3.35	ø8/15	2	2	1	SLV	0.40	0.45	1777.27	2.50	26376.30	51563.30	26376.30	0.50	0.35	2649.16	2.50	20475.50	50034.90	20475.50	7.729
2.80	3.35	ø8/15	2	2	5	SLV	0.40	0.45	4449.80	2.50	26376.30	51501.40	26376.30	0.50	0.35	1347.82	2.50	20475.50	49974.80	20475.50	5.928
3.35	5.55	ø8/20	2	2	9	SLU	0.40	0.45	468.66	2.50	19782.20	53083.60	19782.20	0.50	0.35	1132.45	2.50	15356.70	51510.10	15356.70	13.561
3.35	5.55	ø8/20	2	2	1	SLV	0.40	0.45	1777.27	2.50	19782.20	51525.20	19782.20	0.50	0.35	2649.16	2.50	15356.70	49997.90	15356.70	5.797
3.35	5.55	ø8/20	2	2	5	SLV	0.40	0.45	4449.80	2.50	19782.20	51463.30	19782.20	0.50	0.35	1347.82	2.50	15356.70	49937.80	15356.70	4.446
5.55	6.10	ø8/15	2	2	9	SLU	0.40	0.45	468.66	2.50	26376.30	52885.30	26376.30	0.50	0.35	1132.45	2.50	20475.50	51317.60	20475.50	18.081
5.55	6.10	ø8/15	2	2	1	SLV	0.40	0.45	1777.27	2.50	26376.30	51372.60	26376.30	0.50	0.35	2649.16	2.50	20475.50	49849.80	20475.50	7.729
5.55	6.10	ø8/15	2	2	5	SLV	0.40	0.45	4449.80	2.50	26376.30	51310.70	26376.30	0.50	0.35	1347.82	2.50	20475.50	49789.70	20475.50	5.928
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	4437.77	2.50	39564.40	52297.80	39564.40	0.50	0.35	1086.81	2.50	30713.30	50747.60	30713.30	8.915
6.35	7.10	ø8/10	2	2	3(TG)	SND	0.40	0.45	984.22	2.50	39564.40	51147.40	39564.40	0.50	0.35	4790.52	2.50	30713.30	49631.30	30713.30	6.411
6.35	7.10	ø8/10	2	2	5	SLV	0.40	0.45	8751.44	2.50	39564.40	50866.60	39564.40	0.50	0.35	1224.36	2.50	30713.30	49358.80	30713.30	4.521

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.13082 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=14.2822
  0.09727 >= 0.05568 [7.4.29]
- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.13082 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=14.9742
  0.09727 >= 0.05149 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
110	N	ø16/ 4	Y+	I	2	16.59	7.16	0.50	0.38	0.20	28.15
			Z+	E	2	6.03	6.03	0.50	0.28	0.20	28.15
			Y-	I	2	16.59	7.16	0.50	0.38	0.20	28.15
210	N	ø8/ 8	Y+	I	2	5.15	4.02	0.40	0.39	0.15	3.02
			Y-	I	2	5.15	4.02	0.40	0.39	0.15	3.02
310	N	ø16/ 5	Y+	I	2	14.07	6.03	0.50	0.38	0.20	24.13
			Z+	E	2	6.03	6.03	0.50	0.28	0.20	24.13
			Y-	I	2	14.07	6.03	0.50	0.38	0.20	24.13

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
110	Y+	1	SLV	-4449.80	97780.40	6.04	11.18	162859.00	966582.00	1101470.00	---	---
		1	SLV	-4449.80	97780.40	6.80	12.72	161540.00	910113.00	1101470.00	---	---
	Z+	1	SLV	2649.16	23314.10	6.04	11.18	94252.60	0.00	1101470.00	---	---
		1	SLV	2649.16	23314.10	6.80	12.72	93265.70	0.00	1101470.00	---	---
	Y-	1	SLV	-4449.80	97780.40	6.04	11.18	162859.00	966582.00	1101470.00	---	---
		1	SLV	-4449.80	97780.40	6.80	12.72	161540.00	910113.00	1101470.00	---	---
210	Y+	1	SLV	-8751.44	30734.30	4.81	5.57	137584.00	34753.10	196691.00	---	---
		1	SLV	-8751.44	30734.30	5.51	6.32	136571.00	25753.00	196691.00	---	---
	Y-	1	SLV	-8751.44	30734.30	4.81	5.57	137584.00	34753.10	196691.00	---	---
		1	SLV	-8751.44	30734.30	5.51	6.32	136571.00	25753.00	196691.00	---	---
310	Y+	1	SLV	0.00	86544.10	0.00	4.71	173101.00	1389930.00	944117.00	86544.10	94411.70
	Z+	1	SLV	0.00	25963.20	0.00	4.71	101845.00	116829.00	944117.00	---	---
	Y-	1	SLV	0.00	86544.10	0.00	4.71	173101.00	1389930.00	944117.00	86544.10	94411.70

Pilastrata n. 11

Nodi: 11 111 211 311

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-41040.00	-18165.90		-18165.90	0.00		0.00	-41040.00	-19011.70	0.00	1.047
0.00	1	SLV	1	1	0.00	-41040.00	-18165.90		-18165.90	0.00		0.00	-41040.00	-19011.70	0.00	1.047
2.50	3(α)	SLV	1	1	250.00	-40229.60	0.00	1.30	0.00	2167.44	5.64	12218.80	-40229.60	0.00	24641.50	2.017
2.80	7(α)	SLV	2	1	0.00	-22801.80	0.00	4.18	0.00	5823.90	3.93	22901.40	-22801.80	0.00	23349.70	1.020
2.80	7(α)	SLV	2	1	0.00	-22801.80	0.00	4.18	0.00	5823.90	3.93	22901.40	-22801.80	0.00	23349.70	1.020
6.10	5(α)	SLV	2	1	330.00	-20408.50	0.00	1.00	0.00	6353.01	1.30	8258.91	-20408.50	0.00	23170.30	2.805
6.35	5(α)	SLV	3	1	0.00	-17762.00	0.00	1.00	0.00	-3104.85	1.30	-4036.31	-17762.00	0.00	-22959.80	5.688
6.35	5(α)	SLV	3	1	0.00	-17762.00	0.00	1.00	0.00	-3104.85	1.30	-4036.31	-17762.00	0.00	-22959.80	5.688
7.10	5	SLV	3	1	75.00	-17387.00	0.00		0.00	9302.98		9302.98	-17387.00	0.00	22920.10	2.464

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>

0.00	10	SLE R	1	1	0.00	-49775.80	0.00	-13662.60	18.85	18.85	123.53	1667.16
0.00	12	SLE Q	1	1	0.00	-43776.10	0.00	-12070.90	18.85	18.85	109.12	1477.81
0.00	10	SLE R	1	1	0.00	-49775.80	0.00	-13662.60	18.85	18.85	123.53	1667.16
0.00	12	SLE Q	1	1	0.00	-43776.10	0.00	-12070.90	18.85	18.85	109.12	1477.81
2.50	10	SLE R	1	1	250.00	-48525.80	0.00	1459.65	0.00	37.70	27.19	374.99
2.50	10	SLE R	1	1	250.00	-48525.80	1790.46	0.00	0.00	37.70	26.75	376.37
2.50	12	SLE Q	1	1	250.00	-42526.10	1613.63	0.00	0.00	37.70	23.64	332.14
2.80	10	SLE R	2	1	0.00	-25508.40	0.00	2971.66	12.57	25.13	28.40	348.02
2.80	12	SLE Q	2	1	0.00	-22839.50	0.00	2715.16	12.57	25.13	25.87	316.01
2.80	10	SLE R	2	1	0.00	-25508.40	0.00	2971.66	12.57	25.13	28.40	348.02
2.80	12	SLE Q	2	1	0.00	-22839.50	0.00	2715.16	12.57	25.13	25.87	316.01
6.10	10	SLE R	2	1	330.00	-23858.40	0.00	234.04	0.00	37.70	10.63	154.13
6.10	12	SLE Q	2	1	330.00	-21189.50	258.25	0.00	0.00	37.70	9.39	137.25
6.35	10	SLE R	3	1	0.00	-21051.90	-286.07	0.00	0.00	37.70	9.46	137.89
6.35	12	SLE Q	3	1	0.00	-18373.10	-281.48	0.00	0.00	37.70	8.39	121.99
6.35	10	SLE R	3	1	0.00	-21051.90	-286.07	0.00	0.00	37.70	9.46	137.89
6.35	12	SLE Q	3	1	0.00	-18373.10	-281.48	0.00	0.00	37.70	8.39	121.99
7.10	10	SLE R	3	1	75.00	-20676.90	2235.47	0.00	0.00	37.70	17.97	237.82
7.10	12	SLE Q	3	1	75.00	-17998.10	2039.44	0.00	12.57	25.13	16.12	212.51

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-43776.10	-12070.90	0.00	43.00	131.33	0.50	20.00	143.73	12.57	362.74	1477.81	0.52	0.13
0.00	11	SLE F	1	1	0.00	-45109.30	-12424.60	0.00	43.00	131.33	0.50	20.00	143.71	12.57	362.62	1519.87	0.44	0.11
0.00	12	SLE Q	1	1	0.00	-43776.10	-12070.90	0.00	43.00	131.33	0.50	20.00	143.73	12.57	362.74	1477.81	0.52	0.13
0.00	11	SLE F	1	1	0.00	-45109.30	-12424.60	0.00	43.00	131.33	0.50	20.00	143.71	12.57	362.62	1519.87	0.44	0.11

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	937.65	2.50	39564.40	57993.50	39564.40	0.50	0.35	8526.80	2.50	30713.30	56274.40	30713.30	3.602
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54561.60	39564.40	0.50	0.35	24274.70	2.50	30713.30	52944.30	30713.30	1.265
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	31493.00	2.50	39564.40	54561.90	39564.40	0.50	0.35	0.00	2.50	30713.30	52944.50	30713.30	1.256
0.50	2.00	ø8/20	2	2	9	SLU	0.40	0.45	937.65	2.50	19782.20	57948.40	19782.20	0.50	0.35	8526.80	2.50	15356.70	56230.70	15356.70	1.801
0.50	2.00	ø8/20	2	2	7(TG)	SLV	0.40	0.45	15651.80	2.50	19782.20	54185.20	19782.20	0.50	0.35	12013.90	2.50	15356.70	52579.00	15356.70	1.264
2.00	2.50	ø8/15	2	2	9	SLU	0.40	0.45	937.65	2.50	26376.30	57813.10	26376.30	0.50	0.35	8526.80	2.50	20475.50	56099.40	20475.50	2.401
2.00	2.50	ø8/15	2	2	7(TG)	SLV	0.40	0.45	15651.80	2.50	26376.30	54185.20	26376.30	0.50	0.35	12013.90	2.50	20475.50	52579.00	20475.50	1.685
2.80	3.35	ø8/15	2	2	9	SLU	0.40	0.45	736.87	2.50	26376.30	53242.60	26376.30	0.50	0.35	1125.48	2.50	20475.50	51664.30	20475.50	18.193
2.80	3.35	ø8/15	2	2	1	SLV	0.40	0.45	2055.81	2.50	26376.30	51639.80	26376.30	0.50	0.35	2633.75	2.50	20475.50	50109.10	20475.50	7.774
2.80	3.35	ø8/15	2	2	5	SLV	0.40	0.45	4619.95	2.50	26376.30	51559.20	26376.30	0.50	0.35	1345.00	2.50	20475.50	50030.90	20475.50	5.709
3.35	5.55	ø8/20	2	2	9	SLU	0.40	0.45	736.87	2.50	19782.20	53193.00	19782.20	0.50	0.35	1125.48	2.50	15356.70	51616.20	15356.70	13.645
3.35	5.55	ø8/20	2	2	1	SLV	0.40	0.45	2055.81	2.50	19782.20	51601.60	19782.20	0.50	0.35	2633.75	2.50	15356.70	50072.00	15356.70	5.831
3.35	5.55	ø8/20	2	2	5	SLV	0.40	0.45	4619.95	2.50	19782.20	51521.10	19782.20	0.50	0.35	1345.00	2.50	15356.70	49993.90	15356.70	4.282
5.55	6.10	ø8/15	2	2	9	SLU	0.40	0.45	736.87	2.50	26376.30	52994.60	26376.30	0.50	0.35	1125.48	2.50	20475.50	51423.70	20475.50	18.193
5.55	6.10	ø8/15	2	2	1	SLV	0.40	0.45	2055.81	2.50	26376.30	51449.00	26376.30	0.50	0.35	2633.75	2.50	20475.50	49924.00	20475.50	7.774
5.55	6.10	ø8/15	2	2	5	SLV	0.40	0.45	4619.95	2.50	26376.30	51368.50	26376.30	0.50	0.35	1345.00	2.50	20475.50	49845.80	20475.50	5.709
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	4758.25	2.50	39564.40	52387.20	39564.40	0.50	0.35	1109.60	2.50	30713.30	50834.30	30713.30	8.315
6.35	7.10	ø8/10	2	2	1	SLV	0.40	0.45	5463.73	2.50	39564.40	51006.80	39564.40	0.50	0.35	2345.99	2.50	30713.30	49494.80	30713.30	7.241
6.35	7.10	ø8/10	2	2	5	SLV	0.40	0.45	9030.26	2.50	39564.40	50916.00	39564.40	0.50	0.35	1246.78	2.50	30713.30	49406.80	30713.30	4.381

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.13364 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=13.9813
  0.09727 >= 0.05763 [7.4.29]
- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.13364 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=14.6586
  0.09727 >= 0.05335 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
111	N	ø16/ 4	Y+	I	2	17.72	7.16	0.50	0.38	0.20	28.15
			Y-	I	2	17.72	7.16	0.50	0.38	0.20	28.15
			Z-	E	2	6.03	6.03	0.50	0.28	0.20	28.15
211	N	ø8/ 8	Y+	I	2	5.15	4.02	0.40	0.39	0.15	3.02
			Y-	I	2	5.15	4.02	0.40	0.39	0.15	3.02
311	N	ø16/ 5	Y+	I	2	15.21	6.03	0.50	0.38	0.20	24.13
			Y-	I	2	15.21	6.03	0.50	0.38	0.20	24.13
			Z-	E	2	6.03	6.03	0.50	0.28	0.20	24.13

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
111	Y+	1	SLV	4619.95	102478.00	6.17	11.43	162636.00	1064250.00	1101470.00	---	---
		1	SLV	4619.95	102478.00	6.95	13.00	161261.00	1000910.00	1101470.00	---	---
	Y-	1	SLV	4619.95	102478.00	6.17	11.43	162636.00	1064250.00	1101470.00	---	---
		1	SLV	4619.95	102478.00	6.95	13.00	161261.00	1000910.00	1101470.00	---	---
	Z-	1	SLV	-2633.75	23329.50	6.17	11.43	94086.50	0.00	1101470.00	---	---
		1	SLV	-2633.75	23329.50	6.95	13.00	93056.50	0.00	1101470.00	---	---
211	Y+	1	SLV	9030.26	30455.50	4.92	5.70	137437.00	30293.50	196691.00	---	---
		1	SLV	9030.26	30455.50	5.64	6.48	136386.00	21290.90	196691.00	---	---
	Y-	1	SLV	9030.26	30455.50	4.92	5.70	137437.00	30293.50	196691.00	---	---
		1	SLV	9030.26	30455.50	5.64	6.48	136386.00	21290.90	196691.00	---	---
311	Y+	1	SLV	0.00	91412.20	0.00	4.81	173101.00	1566580.00	944117.00	91412.20	94411.70
	Y-	1	SLV	0.00	91412.20	0.00	4.81	173101.00	1566580.00	944117.00	91412.20	94411.70
	Z-	1	SLV	0.00	25963.20	0.00	4.81	101846.00	116828.00	944117.00	---	---

Pilastrata n. 12

Nodi: 12 112 312

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-72787.70	10999.00		10999.00	0.00		0.00	-72787.70	22856.20	0.00	2.078
0.00	1	SLV	1	1	0.00	-72787.70	10999.00		10999.00	0.00		0.00	-72787.70	22856.20	0.00	2.078
2.50	7(α)	SLV	1	1	250.00	-71050.50	0.00	6.50	0.00	6881.09	3.27	22471.10	-71050.50	0.00	29646.80	1.319
2.80	7(α)	SLV	2	1	0.00	-35013.70	974.89	12.28	11968.00	0.00	8.04	0.00	-35013.70	20692.80	0.00	1.729
2.80	7(α)	SLV	2	1	0.00	-35013.70	974.89	12.28	11968.00	0.00	8.04	0.00	-35013.70	20692.80	0.00	1.729
7.10	5	SLV	2	1	430.00	-32831.00	0.00		0.00	11869.80		11869.80	-32831.00	0.00	26988.20	2.274

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	1	SND	2	1	0.00	-34991.00	0.00	0.00	-9387.29	-9387.29	-34991.00	0.00	-22478.00	2.395
2.80	1	SND	2	1	0.00	-34991.00	0.00	0.00	-9387.29	-9387.29	-34991.00	0.00	-22478.00	2.395

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-85286.70	0.00	576.92	0.00	43.23	35.33	517.54
0.00	12	SLE Q	1	1	0.00	-73415.00	0.00	491.76	0.00	43.23	30.39	445.21
0.00	10	SLE R	1	1	0.00	-85286.70	0.00	576.92	0.00	43.23	35.33	517.54
0.00	12	SLE Q	1	1	0.00	-73415.00	0.00	491.76	0.00	43.23	30.39	445.21
2.50	10	SLE R	1	1	250.00	-84036.70	2214.97	0.00	0.00	43.23	40.95	584.90
2.50	12	SLE Q	1	1	250.00	-72165.00	1951.73	0.00	0.00	43.23	35.37	504.71
2.80	10	SLE R	2	1	0.00	-40872.20	-3492.06	0.00	0.00	43.23	29.96	403.24
2.80	12	SLE Q	2	1	0.00	-35595.70	-3074.49	0.00	0.00	43.23	26.23	352.81
2.80	10	SLE R	2	1	0.00	-40872.20	-3492.06	0.00	0.00	43.23	29.96	403.24
2.80	12	SLE Q	2	1	0.00	-35595.70	-3074.49	0.00	0.00	43.23	26.23	352.81
7.10	10	SLE R	2	1	430.00	-38722.20	4177.80	0.00	0.00	43.23	32.17	426.43
7.10	12	SLE Q	2	1	430.00	-33445.70	3691.90	0.00	0.00	43.23	28.18	372.86

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/ 5	2	2	9	SLU	0.40	0.45	1354.49	2.13	67364.40	67364.40	67364.40	0.50	0.35	31.69	2.43	59743.30	59743.30	59743.30	49.734
0.00	0.50	ø8/ 5	2	2	5(TG)	SLV	0.40	0.45	0.00	2.09	66069.40	66069.40	66069.40	0.50	0.35	28811.80	2.39	58643.80	58643.80	58643.80	2.035
0.00	0.50	ø8/ 5	2	2	1(TG)	SLV	0.40	0.45	37459.40	2.09	66007.10	66007.10	66007.10	0.50	0.35	0.00	2.38	58591.00	58591.00	58591.00	1.762
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	1354.49	2.50	26376.30	60353.10	26376.30	0.50	0.35	31.70	2.50	20475.50	58564.10	20475.50	19.473
0.50	2.00	ø8/15	2	2	3(TG)	SLV	0.40	0.45	18683.50	2.50	26376.30	58306.50	26376.30	0.50	0.35	14388.80	2.50	20475.50	56578.20	20475.50	1.412
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	18779.90	2.50	26376.30	58470.60	26376.30	0.50	0.35	14386.70	2.50	20475.50	56737.40	20475.50	1.404
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	1354.49	2.50	39564.40	60353.10	39564.40	0.50	0.35	31.70	2.50	30713.30	58564.10	30713.30	29.210
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	58470.60	39564.40	0.50	0.35	28811.80	2.50	30713.30	56737.40	30713.30	1.066
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	37459.40	2.50	39564.40	58381.00	39564.40	0.50	0.35	0.00	2.50	30713.30	56650.40	30713.30	1.056
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.45	2535.25	2.50	39564.40	56250.80	39564.40	0.50	0.35	451.31	2.50	30713.30	54583.40	30713.30	15.606
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9979.06	2.50	39564.40	53007.70	39564.40	0.50	0.35	7537.98	2.50	30713.30	51436.50	30713.30	3.965
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19874.80	2.50	39564.40	53007.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51436.30	30713.30	1.991
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.45	2535.25	2.50	26376.30	56186.20	26376.30	0.50	0.35	451.31	2.50	20475.50	54520.70	20475.50	10.404
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	9979.06	2.50	26376.30	53007.70	26376.30	0.50	0.35	7537.98	2.50	20475.50	51436.50	20475.50	2.643
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	19874.80	2.50	26376.30	53007.60	26376.30	0.50	0.35	0.00	2.50	20475.50	51436.30	20475.50	1.327
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.45	2535.25	2.50	39564.40	55927.70	39564.40	0.50	0.35	451.31	2.50	30713.30	54269.90	30713.30	15.606
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9979.06	2.50	39564.40	53007.70	39564.40	0.50	0.35	7537.98	2.50	30713.30	51436.50	30713.30	3.965
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19874.80	2.50	39564.40	53007.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51436.30	30713.30	1.991

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.2146 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=17.3681
  0.22885 >= 0.11376 [7.4.29]
- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.2146 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=18.2095
  0.22885 >= 0.10688 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
112	S	ø8/10	Y+	I	2	32.55	18.85	0.60	0.39	0.20	3.02
			Z+	I	2	7.16	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	32.55	18.85	0.60	0.39	0.20	3.02
			Z-	I	2	7.16	6.03	0.50	0.29	0.20	3.02
312	S	ø8/10	Y+	I	2	30.29	21.99	0.50	0.39	0.20	3.02
			Z+	I	2	6.03	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	30.29	21.99	0.50	0.39	0.20	3.02
			Z-	I	2	6.03	6.03	0.50	0.29	0.20	3.02

Pilastrata n. 13

Nodi: 13 113 313

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd

		<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
1	R	50.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-69060.30	0.00		0.00	-13790.60		-13790.60	-69060.30	0.00	-29519.20	2.141
0.00	5	SLV	1	1	0.00	-69060.30	0.00		0.00	-13790.60		-13790.60	-69060.30	0.00	-29519.20	2.141
2.50	5(α)	SLV	1	1	250.00	-67810.30	0.00	8.27	0.00	6850.56	3.13	21447.60	-67810.30	0.00	29437.60	1.373
2.80	5(α)	SLV	2	1	0.00	-33598.20	1738.29	5.59	9716.29	0.00	7.75	0.00	-33598.20	20594.60	0.00	2.120
2.80	5(α)	SLV	2	1	0.00	-33598.20	1738.29	5.59	9716.29	0.00	7.75	0.00	-33598.20	20594.60	0.00	2.120
7.10	5	SLV	2	1	430.00	-31448.20	0.00		0.00	11763.10		11763.10	-31448.20	0.00	26886.20	2.286

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	3	SND	2	1	0.00	-33738.10	0.00	0.00	-8496.25	-8496.25	-33738.10	0.00	-22350.20	2.631
2.80	3	SND	2	1	0.00	-33738.10	0.00	0.00	-8496.25	-8496.25	-33738.10	0.00	-22350.20	2.631

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-81678.70	-136.31	0.00	0.00	43.23	31.41	469.31
0.00	12	SLE Q	1	1	0.00	-70304.70	-170.78	0.00	0.00	43.23	27.26	406.59
0.00	10	SLE R	1	1	0.00	-81678.70	-136.31	0.00	0.00	43.23	31.41	469.31
0.00	12	SLE Q	1	1	0.00	-70304.70	-170.78	0.00	0.00	43.23	27.26	406.59
2.50	10	SLE R	1	1	250.00	-80428.70	2129.01	0.00	0.00	43.23	39.23	560.24
2.50	12	SLE Q	1	1	250.00	-69054.70	1879.81	0.00	0.00	43.23	33.90	483.56
2.80	10	SLE R	2	1	0.00	-39290.50	-3434.35	0.00	0.00	43.23	29.13	391.44
2.80	12	SLE Q	2	1	0.00	-34218.40	-3025.45	0.00	0.00	43.23	25.51	342.60
2.80	10	SLE R	2	1	0.00	-39290.50	-3434.35	0.00	0.00	43.23	29.13	391.44
2.80	12	SLE Q	2	1	0.00	-34218.40	-3025.45	0.00	0.00	43.23	25.51	342.60
7.10	10	SLE R	2	1	430.00	-37140.50	4136.15	0.00	0.00	43.23	31.46	416.04
7.10	12	SLE Q	2	1	430.00	-32068.40	3657.20	0.00	15.33	27.90	27.58	363.96

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/ 5	2	2	9	SLU	0.40	0.45	1280.74	2.13	67364.40	67364.40	67364.40	0.50	0.35	0.00	2.43	59743.30	59743.30	59743.30	52.598
0.00	0.50	ø8/ 5	2	2	5(TG)	SLV	0.40	0.45	0.00	2.08	65765.90	65765.90	65765.90	0.50	0.35	28616.70	2.38	58386.30	58386.40	58386.30	2.040
0.00	0.50	ø8/ 5	2	2	1(TG)	SLV	0.40	0.45	37189.90	2.08	65681.80	65681.80	65681.80	0.50	0.35	0.00	2.37	58315.00	58315.00	58315.00	1.766
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	1280.74	2.50	26376.30	60353.10	26376.30	0.50	0.35	0.00	2.50	20475.50	58564.10	20475.50	20.595
0.50	2.00	ø8/15	2	2	3(TG)	SLV	0.40	0.45	18569.80	2.50	26376.30	57914.30	26376.30	0.50	0.35	14300.70	2.50	20475.50	56197.60	20475.50	1.420
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	18655.10	2.50	26376.30	58034.80	26376.30	0.50	0.35	14288.70	2.50	20475.50	56314.50	20475.50	1.414
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	1280.74	2.50	39564.40	60353.10	39564.40	0.50	0.35	0.00	2.50	30713.30	58564.10	30713.30	30.892
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	58034.80	39564.40	0.50	0.35	28616.70	2.50	30713.30	56314.50	30713.30	1.073
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	37189.90	2.50	39564.40	57914.30	39564.40	0.50	0.35	0.00	2.50	30713.30	56197.60	30713.30	1.064
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.45	2502.47	2.50	39564.40	55941.40	39564.40	0.50	0.35	0.00	2.50	30713.30	54283.10	30713.30	15.810
2.80	3.52	ø8/10	2	2	7(TG)	SLV	0.40	0.45	9942.72	2.50	39564.40	52817.40	39564.40	0.50	0.35	7503.15	2.50	30713.30	51251.80	30713.30	3.979
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19801.60	2.50	39564.40	52817.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51251.90	30713.30	1.998
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.45	2502.47	2.50	26376.30	55876.70	26376.30	0.50	0.35	0.00	2.50	20475.50	54220.40	20475.50	10.540
3.52	6.38	ø8/15	2	2	7(TG)	SLV	0.40	0.45	9942.72	2.50	26376.30	52817.40	26376.30	0.50	0.35	7503.15	2.50	20475.50	51251.80	20475.50	2.653
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	19801.60	2.50	26376.30	52817.60	26376.30	0.50	0.35	0.00	2.50	20475.50	51251.90	20475.50	1.332
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.45	2502.47	2.50	39564.40	55618.30	39564.40	0.50	0.35	0.00	2.50	30713.30	53969.60	30713.30	15.810
6.38	7.10	ø8/10	2	2	7(TG)	SLV	0.40	0.45	9942.72	2.50	39564.40	52817.40	39564.40	0.50	0.35	7503.15	2.50	30713.30	51251.80	30713.30	3.979
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19801.60	2.50	39564.40	52817.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51251.90	30713.30	1.998

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.20557 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=18.1307
  0.22885 >= 0.1075 [7.4.29]
- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.20557 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=19.0091
  0.22885 >= 0.10091 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
113	S	ø8/10	Y+	I	2	30.29	18.85	0.60	0.39	0.20	3.02
			Z+	I	2	6.03	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	30.29	18.85	0.60	0.39	0.20	3.02
			Z-	I	2	6.03	6.03	0.50	0.29	0.20	3.02
313	S	ø8/10	Y+	I	2	27.14	21.99	0.50	0.39	0.20	3.02
			Z+	I	2	6.03	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	27.14	21.99	0.50	0.39	0.20	3.02
			Z-	I	2	6.03	6.03	0.50	0.29	0.20	3.02

Pilastrata n. 14

Nodi: 14 114 314

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	Sez.	X	N	My	α_y	My ver.	Mz	α_z	Mz ver.	Nu	MRdy,r	MRdz,r	Sic.

<m>					<cm>	<daN>	<daNm>		<daNm>	<daNm>		<daNm>	<daN>	<daNm>	<daNm>	
0.00	1	SLV	1	1	0.00	-72787.70	-10999.00		-10999.00	0.00		0.00	-72787.70	-22856.30	0.00	2.078
0.00	1	SLV	1	1	0.00	-72787.70	-10999.00		-10999.00	0.00		0.00	-72787.70	-22856.30	0.00	2.078
2.50	7(α)	SLV	1	1	250.00	-71050.50	0.00	6.50	0.00	6881.08	3.39	23358.60	-71050.50	0.00	29646.80	1.269
2.80	3(α)	SLV	2	1	0.00	-35470.60	0.00	5.01	0.00	-1277.44	12.62	-16126.10	-35470.60	0.00	-27181.60	1.686
2.80	3(α)	SLV	2	1	0.00	-35470.60	0.00	5.01	0.00	-1277.44	12.62	-16126.10	-35470.60	0.00	-27181.60	1.686
7.10	5	SLV	2	1	430.00	-32831.00	0.00		0.00	11869.80		11869.80	-32831.00	0.00	26988.20	2.274

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	1	SND	2	1	0.00	-34991.00	0.00	0.00	-9387.30	-9387.30	-34991.00	0.00	-22478.00	2.395
2.80	1	SND	2	1	0.00	-34991.00	0.00	0.00	-9387.30	-9387.30	-34991.00	0.00	-22478.00	2.395

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-85286.70	0.00	-576.92	0.00	43.23	35.33	517.54
0.00	12	SLE Q	1	1	0.00	-73415.00	0.00	-491.76	0.00	43.23	30.39	445.21
0.00	10	SLE R	1	1	0.00	-85286.70	0.00	-576.92	0.00	43.23	35.33	517.54
0.00	12	SLE Q	1	1	0.00	-73415.00	0.00	-491.76	0.00	43.23	30.39	445.21
2.50	10	SLE R	1	1	250.00	-84036.70	2214.97	0.00	0.00	43.23	40.95	584.90
2.50	12	SLE Q	1	1	250.00	-72165.00	1951.73	0.00	0.00	43.23	35.37	504.71
2.80	10	SLE R	2	1	0.00	-40872.20	-3492.07	0.00	0.00	43.23	29.96	403.24
2.80	12	SLE Q	2	1	0.00	-35595.70	-3074.49	0.00	0.00	43.23	26.23	352.81
2.80	10	SLE R	2	1	0.00	-40872.20	-3492.07	0.00	0.00	43.23	29.96	403.24
2.80	12	SLE Q	2	1	0.00	-35595.70	-3074.49	0.00	0.00	43.23	26.23	352.81
7.10	10	SLE R	2	1	430.00	-38722.20	4177.80	0.00	0.00	43.23	32.17	426.43
7.10	12	SLE Q	2	1	430.00	-33445.70	3691.90	0.00	0.00	43.23	28.18	372.86

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/ 5	2	2	9	SLU	0.40	0.45	1354.49	2.13	67364.40	67364.40	67364.40	0.50	0.35	31.69	2.43	59743.30	59743.30	59743.30	49.734
0.00	0.50	ø8/ 5	2	2	5(TG)	SLV	0.40	0.45	0.00	2.09	66069.40	66069.40	66069.40	0.50	0.35	28811.90	2.39	58643.90	58643.90	58643.90	2.035
0.00	0.50	ø8/ 5	2	2	1(TG)	SLV	0.40	0.45	37459.40	2.09	66007.10	66007.10	66007.10	0.50	0.35	0.00	2.38	58591.00	58591.00	58591.00	1.762
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	1354.49	2.50	26376.30	60353.10	26376.30	0.50	0.35	31.69	2.50	20475.50	58564.10	20475.50	19.473
0.50	2.00	ø8/15	2	2	3(TG)	SLV	0.40	0.45	18683.50	2.50	26376.30	58306.50	26376.30	0.50	0.35	14388.90	2.50	20475.50	56578.20	20475.50	1.412
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	18779.90	2.50	26376.30	58470.70	26376.30	0.50	0.35	14386.80	2.50	20475.50	56737.50	20475.50	1.404
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	1354.49	2.50	39564.40	60353.10	39564.40	0.50	0.35	31.69	2.50	30713.30	58564.10	30713.30	29.210
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	58470.70	39564.40	0.50	0.35	28811.90	2.50	30713.30	56737.50	30713.30	1.066
2.00	2.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	37459.40	2.50	39564.40	58381.00	39564.40	0.50	0.35	0.00	2.50	30713.30	56650.40	30713.30	1.056
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.45	2535.25	2.50	39564.40	56250.80	39564.40	0.50	0.35	451.31	2.50	30713.30	54583.40	30713.30	15.606
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9979.06	2.50	39564.40	53007.90	39564.40	0.50	0.35	7538.05	2.50	30713.30	51436.70	30713.30	3.965
2.80	3.52	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19874.80	2.50	39564.40	53007.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51436.30	30713.30	1.991
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.45	2535.25	2.50	26376.30	56186.20	26376.30	0.50	0.35	451.31	2.50	20475.50	54520.70	20475.50	10.404
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	9979.06	2.50	26376.30	53007.90	26376.30	0.50	0.35	7538.05	2.50	20475.50	51436.70	20475.50	2.643
3.52	6.38	ø8/15	2	2	5(TG)	SLV	0.40	0.45	19874.80	2.50	26376.30	53007.60	26376.30	0.50	0.35	0.00	2.50	20475.50	51436.30	20475.50	1.327
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.45	2535.25	2.50	39564.40	55927.70	39564.40	0.50	0.35	451.31	2.50	30713.30	54269.90	30713.30	15.606
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	9979.06	2.50	39564.40	53007.90	39564.40	0.50	0.35	7538.05	2.50	30713.30	51436.70	30713.30	3.965
6.38	7.10	ø8/10	2	2	5(TG)	SLV	0.40	0.45	19874.80	2.50	39564.40	53007.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51436.30	30713.30	1.991

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.2146 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=17.3681
  0.22885 >= 0.11376 [7.4.29]
- CC=5 α_e=0.61633 ω_{wd}=0.37131 $\mu\Phi_d$=9.792 v_d=0.2146 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=18.2095
  0.22885 >= 0.10688 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
114	S	ø8/10	Y+	I	2	31.42	21.99	0.60	0.39	0.20	3.02
			Z+	I	2	7.16	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	31.42	21.99	0.60	0.39	0.20	3.02
			Z-	I	2	7.16	6.03	0.50	0.29	0.20	3.02
314	S	ø8/10	Y+	I	2	30.29	21.99	0.50	0.39	0.20	3.02
			Z+	I	2	6.03	6.03	0.50	0.29	0.20	3.02
			Y-	I	2	30.29	21.99	0.50	0.39	0.20	3.02
			Z-	I	2	6.03	6.03	0.50	0.29	0.20	3.02

Pilastrata n. 15

Nodi: 15 115 215 315

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-41040.00	18165.90		18165.90	0.00		0.00	-41040.00	19011.70	0.00	1.047
0.00	1	SLV	1	1	0.00	-41040.00	18165.90		18165.90	0.00		0.00	-41040.00	19011.70	0.00	1.047
2.50	3(α)	SLV	1	1	250.00	-40229.60	0.00	1.30	0.00	2167.45	5.64	12218.80	-40229.60	0.00	24641.50	2.017
2.80	7(α)	SLV	2	1	0.00	-22801.80	0.00	4.18	0.00	5823.91	3.93	22901.40	-22801.80	0.00	23349.70	1.020

2.80	7(α)	SLV	2	1	0.00	-22801.80	0.00	4.18	0.00	5823.91	3.93	22901.40	-22801.80	0.00	23349.70	1.020
6.10	5(α)	SLV	2	1	330.00	-20408.50	0.00	1.00	0.00	6353.01	1.30	8258.92	-20408.50	0.00	23170.30	2.805
6.35	5(α)	SLV	3	1	0.00	-17762.00	0.00	1.00	0.00	-3104.85	1.30	-4036.31	-17762.00	0.00	-22959.80	5.688
6.35	5(α)	SLV	3	1	0.00	-17762.00	0.00	1.00	0.00	-3104.85	1.30	-4036.31	-17762.00	0.00	-22959.80	5.688
7.10	5	SLV	3	1	75.00	-17387.00	0.00		0.00	9302.99		9302.99	-17387.00	0.00	22920.10	2.464

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-49775.80	0.00	13662.60	18.85	18.85	123.53	1667.16
0.00	12	SLE Q	1	1	0.00	-43776.10	0.00	12070.90	18.85	18.85	109.12	1477.81
0.00	10	SLE R	1	1	0.00	-49775.80	0.00	13662.60	18.85	18.85	123.53	1667.16
0.00	12	SLE Q	1	1	0.00	-43776.10	0.00	12070.90	18.85	18.85	109.12	1477.81
2.50	10	SLE R	1	1	250.00	-48525.80	0.00	-1459.65	0.00	37.70	27.19	374.99
2.50	10	SLE R	1	1	250.00	-48525.80	1790.46	0.00	0.00	37.70	26.75	376.37
2.50	12	SLE Q	1	1	250.00	-42526.10	1613.63	0.00	0.00	37.70	23.64	332.14
2.80	10	SLE R	2	1	0.00	-25508.40	0.00	-2971.66	12.57	25.13	28.40	348.02
2.80	12	SLE Q	2	1	0.00	-22839.50	0.00	-2715.16	12.57	25.13	25.87	316.01
2.80	10	SLE R	2	1	0.00	-25508.40	0.00	-2971.66	12.57	25.13	28.40	348.02
2.80	12	SLE Q	2	1	0.00	-22839.50	0.00	-2715.16	12.57	25.13	25.87	316.01
6.10	10	SLE R	2	1	330.00	-23858.40	0.00	-234.04	0.00	37.70	10.63	154.13
6.10	12	SLE Q	2	1	330.00	-21189.50	258.25	0.00	0.00	37.70	9.39	137.25
6.35	10	SLE R	3	1	0.00	-21051.90	-286.07	0.00	0.00	37.70	9.46	137.89
6.35	12	SLE Q	3	1	0.00	-18373.10	-281.48	0.00	0.00	37.70	8.39	121.99
6.35	10	SLE R	3	1	0.00	-21051.90	-286.07	0.00	0.00	37.70	9.46	137.89
6.35	12	SLE Q	3	1	0.00	-18373.10	-281.48	0.00	0.00	37.70	8.39	121.99
7.10	10	SLE R	3	1	75.00	-20676.90	2235.47	0.00	0.00	37.70	17.97	237.82
7.10	12	SLE Q	3	1	75.00	-17998.10	2039.44	0.00	12.57	25.13	16.12	212.51

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-43776.10	12070.90	0.00	43.00	131.33	0.50	20.00	143.73	12.57	362.74	1477.81	0.52	0.13
0.00	11	SLE F	1	1	0.00	-45109.30	12424.60	0.00	43.00	131.33	0.50	20.00	143.71	12.57	362.62	1519.87	0.44	0.11
0.00	12	SLE Q	1	1	0.00	-43776.10	12070.90	0.00	43.00	131.33	0.50	20.00	143.73	12.57	362.74	1477.81	0.52	0.13
0.00	11	SLE F	1	1	0.00	-45109.30	12424.60	0.00	43.00	131.33	0.50	20.00	143.71	12.57	362.62	1519.87	0.44	0.11

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	937.65	2.50	39564.40	57993.50	39564.40	0.50	0.35	8526.80	2.50	30713.30	56274.40	30713.30	3.602
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	54561.60	39564.40	0.50	0.35	24274.80	2.50	30713.30	52944.30	30713.30	1.265
0.00	0.50	ø8/10	2	2	1(TG)	SLV	0.40	0.45	31493.00	2.50	39564.40	54561.90	39564.40	0.50	0.35	0.00	2.50	30713.30	52944.50	30713.30	1.256
0.50	2.00	ø8/20	2	2	9	SLU	0.40	0.45	937.65	2.50	19782.20	57948.40	19782.20	0.50	0.35	8526.80	2.50	15356.70	56230.70	15356.70	1.801
0.50	2.00	ø8/20	2	2	1(TG)	SLV	0.40	0.45	15774.70	2.50	19782.20	54561.60	19782.20	0.50	0.35	12115.30	2.50	15356.70	52944.30	15356.70	1.254
2.00	2.50	ø8/15	2	2	9	SLU	0.40	0.45	937.65	2.50	26376.30	57813.10	26376.30	0.50	0.35	8526.80	2.50	20475.50	56099.40	20475.50	2.401
2.00	2.50	ø8/15	2	2	1(TG)	SLV	0.40	0.45	15774.70	2.50	26376.30	54561.60	26376.30	0.50	0.35	12115.30	2.50	20475.50	52944.30	20475.50	1.672
2.80	3.35	ø8/15	2	2	9	SLU	0.40	0.45	736.87	2.50	26376.30	53242.60	26376.30	0.50	0.35	1125.48	2.50	20475.50	51664.30	20475.50	18.193
2.80	3.35	ø8/15	2	2	1	SLV	0.40	0.45	2055.80	2.50	26376.30	51639.80	26376.30	0.50	0.35	2633.75	2.50	20475.50	50109.10	20475.50	7.774
2.80	3.35	ø8/15	2	2	5	SLV	0.40	0.45	4619.95	2.50	26376.30	51559.20	26376.30	0.50	0.35	1345.00	2.50	20475.50	50030.90	20475.50	5.709
3.35	5.55	ø8/20	2	2	9	SLU	0.40	0.45	736.87	2.50	19782.20	53193.00	19782.20	0.50	0.35	1125.48	2.50	15356.70	51616.20	15356.70	13.645
3.35	5.55	ø8/20	2	2	1	SLV	0.40	0.45	2055.80	2.50	19782.20	51601.60	19782.20	0.50	0.35	2633.75	2.50	15356.70	50072.00	15356.70	5.831
3.35	5.55	ø8/20	2	2	5	SLV	0.40	0.45	4619.95	2.50	19782.20	51521.10	19782.20	0.50	0.35	1345.00	2.50	15356.70	49993.90	15356.70	4.282
5.55	6.10	ø8/15	2	2	9	SLU	0.40	0.45	736.87	2.50	26376.30	52994.60	26376.30	0.50	0.35	1125.48	2.50	20475.50	51423.70	20475.50	18.193
5.55	6.10	ø8/15	2	2	1	SLV	0.40	0.45	2055.80	2.50	26376.30	51449.00	26376.30	0.50	0.35	2633.75	2.50	20475.50	49924.00	20475.50	7.774
5.55	6.10	ø8/15	2	2	5	SLV	0.40	0.45	4619.95	2.50	26376.30	51368.50	26376.30	0.50	0.35	1345.00	2.50	20475.50	49845.80	20475.50	5.709
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	4758.25	2.50	39564.40	52387.20	39564.40	0.50	0.35	1109.60	2.50	30713.30	50834.30	30713.30	8.315
6.35	7.10	ø8/10	2	2	1	SLV	0.40	0.45	5463.75	2.50	39564.40	51006.80	39564.40	0.50	0.35	2345.99	2.50	30713.30	49494.80	30713.30	7.241
6.35	7.10	ø8/10	2	2	5	SLV	0.40	0.45	9030.27	2.50	39564.40	50916.00	39564.40	0.50	0.35	1246.77	2.50	30713.30	49406.80	30713.30	4.381

Dettagli costruttivi per la duttilità

- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.13364 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=13.9813
  0.09727 >= 0.05763 [7.4.29]
- CC=1 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.13364 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=14.6586
  0.09727 >= 0.05335 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
115	N	ø16/ 4	Y+	I	2	17.72	7.16	0.50	0.38	0.20	28.15
			Z+	E	2	6.03	6.03	0.50	0.28	0.20	28.15
			Y-	I	2	17.72	7.16	0.50	0.38	0.20	28.15
215	N	ø8/ 8	Y+	I	2	5.15	4.02	0.40	0.39	0.15	3.02
			Y-	I	2	5.15	4.02	0.40	0.39	0.15	3.02
315	N	ø16/ 5	Y+	I	2	15.21	6.03	0.50	0.38	0.20	24.13
			Z+	E	2	6.03	6.03	0.50	0.28	0.20	24.13
			Y-	I	2	15.21	6.03	0.50	0.38	0.20	24.13

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
115	Y+	1	SLV	4619.95	102478.00	6.17	11.43	162636.00	1064250.00	1101470.00	---	---
		1	SLV	4619.95	102478.00	6.95	13.00	161261.00	1000910.00	1101470.00	---	---
	Z+	1	SLV	2633.75	23329.50	6.17	11.43	94086.40	0.00	1101470.00	---	---
		1	SLV	2633.75	23329.50	6.95	13.00	93056.30	0.00	1101470.00	---	---
	Y-	1	SLV	4619.95	102478.00	6.17	11.43	162636.00	1064250.00	1101470.00	---	---

		1	SLV	4619.95	102478.00	6.95	13.00	161261.00	1000910.00	1101470.00	---	---
215	Y+	1	SLV	9030.27	30455.50	4.92	5.70	137436.00	30293.60	196691.00	---	---
		1	SLV	9030.27	30455.50	5.64	6.48	136386.00	21291.10	196691.00	---	---
	Y-	1	SLV	9030.27	30455.50	4.92	5.70	137436.00	30293.60	196691.00	---	---
		1	SLV	9030.27	30455.50	5.64	6.48	136386.00	21291.10	196691.00	---	---
315	Y+	1	SLV	0.00	91412.20	0.00	4.81	173101.00	1566580.00	944117.00	91412.20	94411.70
	Z+	1	SLV	0.00	25963.20	0.00	4.81	101845.00	116829.00	944117.00	---	---
	Y-	1	SLV	0.00	91412.20	0.00	4.81	173101.00	1566580.00	944117.00	91412.20	94411.70

Pilastrata n. 16

Nodi: 16 116 216 316

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-24389.20	-15115.80		-15115.80	0.00		0.00	-24389.20	-16143.50	0.00	1.068
0.00	1	SLV	1	1	0.00	-24389.20	-15115.80		-15115.80	0.00		0.00	-24389.20	-16143.50	0.00	1.068
2.50	1(α)	SLV	1	1	250.00	-23139.20	-4329.76	1.30	-5628.69	0.00	1.42	0.00	-23139.20	-16058.90	0.00	2.853
2.80	1(α)	SLV	2	1	0.00	-11155.00	9639.60	1.30	12531.50	0.00	3.22	0.00	-11155.00	15174.30	0.00	1.211
2.80	1(α)	SLV	2	1	0.00	-11155.00	9639.60	1.30	12531.50	0.00	3.22	0.00	-11155.00	15174.30	0.00	1.211
6.10	5(α)	SLV	2	1	330.00	-8157.05	0.00	1.00	0.00	-7230.28	1.30	-9399.36	-8157.05	0.00	-19572.10	2.082
6.35	5(α)	SLV	3	1	0.00	-7946.74	0.00	1.00	0.00	-5279.92	1.30	-6863.90	-7946.74	0.00	-19544.30	2.847
6.35	5(α)	SLV	3	1	0.00	-7946.74	0.00	1.00	0.00	-5279.92	1.30	-6863.90	-7946.74	0.00	-19544.30	2.847
7.10	5	SLV	3	1	75.00	-7571.74	0.00		0.00	-10055.60		-10055.60	-7571.74	0.00	-19495.30	1.939

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-30197.70	0.00	-10561.70	16.59	16.59	102.00	1741.04
0.00	12	SLE Q	1	1	0.00	-27486.00	0.00	-9456.71	16.59	16.59	91.36	1545.56
0.00	10	SLE R	1	1	0.00	-30197.70	0.00	-10561.70	16.59	16.59	102.00	1741.04
0.00	12	SLE Q	1	1	0.00	-27486.00	0.00	-9456.71	16.59	16.59	91.36	1545.56
2.50	10	SLE R	1	1	250.00	-28947.70	-3192.48	0.00	0.00	33.18	25.82	341.68
2.50	12	SLE Q	1	1	250.00	-26236.00	0.00	-2460.60	10.30	22.87	25.63	325.20
2.80	10	SLE R	2	1	0.00	-13954.10	0.00	5244.96	16.59	16.59	50.58	895.83
2.80	12	SLE Q	2	1	0.00	-12730.60	0.00	5070.34	16.59	16.59	48.84	888.95
2.80	10	SLE R	2	1	0.00	-13954.10	0.00	5244.96	16.59	16.59	50.58	895.83
2.80	12	SLE Q	2	1	0.00	-12730.60	0.00	5070.34	16.59	16.59	48.84	888.95
6.10	10	SLE R	2	1	330.00	-12304.10	-2234.47	0.00	12.57	20.61	16.11	202.21
6.10	12	SLE Q	2	1	330.00	-11080.60	-1919.56	0.00	12.57	20.61	13.92	175.77
6.35	10	SLE R	3	1	0.00	-11215.30	-1855.00	0.00	12.57	20.61	13.54	171.94
6.35	12	SLE Q	3	1	0.00	-10001.40	0.00	-1215.97	10.30	22.87	12.09	147.80
6.35	10	SLE R	3	1	0.00	-11215.30	-1855.00	0.00	12.57	20.61	13.54	171.94
6.35	12	SLE Q	3	1	0.00	-10001.40	0.00	-1215.97	10.30	22.87	12.09	147.80
7.10	10	SLE R	3	1	75.00	-10840.30	-6479.48	0.00	16.59	16.59	43.26	837.34
7.10	12	SLE Q	3	1	75.00	-9626.43	-5400.78	0.00	16.59	16.59	36.17	681.37

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-27486.00	-9456.71	0.00	43.00	132.01	0.50	18.22	155.55	10.30	393.31	1545.56	0.50	0.13
0.00	11	SLE F	1	1	0.00	-28088.60	-9702.55	0.00	43.00	132.01	0.50	18.22	155.61	10.30	393.62	1589.07	0.46	0.12
0.00	12	SLE Q	1	1	0.00	-27486.00	-9456.71	0.00	43.00	132.01	0.50	18.22	155.55	10.30	393.31	1545.56	0.50	0.13
0.00	11	SLE F	1	1	0.00	-28088.60	-9702.55	0.00	43.00	132.01	0.50	18.22	155.61	10.30	393.62	1589.07	0.46	0.12
2.80	12	SLE Q	2	1	0.00	-12730.60	5070.34	0.00	43.00	132.01	0.50	18.22	157.42	10.30	403.87	888.95	0.26	0.07
2.80	11	SLE F	2	1	0.00	-12961.10	5109.26	0.00	43.00	132.01	0.50	18.22	157.30	10.30	403.19	891.75	0.26	0.07
2.80	12	SLE Q	2	1	0.00	-12730.60	5070.34	0.00	43.00	132.01	0.50	18.22	157.42	10.30	403.87	888.95	0.26	0.07
2.80	11	SLE F	2	1	0.00	-12961.10	5109.26	0.00	43.00	132.01	0.50	18.22	157.30	10.30	403.19	891.75	0.26	0.07
6.10	12	SLE Q	2	1	330.00	-11080.60	0.00	-1919.56	43.00	98.00	0.50	20.00	121.04	12.57	220.14	69.90	0.02	0.00
6.10	11	SLE F	2	1	330.00	-11311.10	0.00	-1986.89	43.00	98.00	0.50	20.00	121.69	12.57	224.23	74.88	0.02	0.00
7.10	12	SLE Q	3	1	75.00	-9626.43	0.00	-5400.78	43.00	98.00	0.50	20.00	150.05	12.57	402.46	681.37	0.20	0.05
7.10	11	SLE F	3	1	75.00	-9854.63	0.00	-5607.33	43.00	98.00	0.50	20.00	150.20	12.57	403.37	711.34	0.21	0.05

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	2314.18	2.50	39564.40	54213.10	39564.40	0.50	0.35	4528.20	2.50	30713.30	52606.10	30713.30	6.783
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	14151.20	2.50	39564.40	52660.60	39564.40	0.50	0.35	10503.60	2.50	30713.30	51099.60	30713.30	2.796
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	28396.50	2.50	39564.40	52660.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51099.60	30713.30	1.393
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2314.18	2.50	26376.30	54168.10	26376.30	0.50	0.35	4528.20	2.50	20475.50	52562.40	20475.50	4.522
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	14151.20	2.50	26376.30	52660.60	26376.30	0.50	0.35	10503.60	2.50	20475.50	51099.60	20475.50	1.864
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2314.18	2.50	39564.40	54032.80	39564.40	0.50	0.35	4528.20	2.50	30713.30	52431.20	30713.30	6.783
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	14151.20	2.50	39564.40	52660.60	39564.40	0.50	0.35	10503.60	2.50	30713.30	51099.60	30713.30	2.796
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	28396.50	2.50	39564.40	52660.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51099.60	30713.30	1.393
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.45	3550.15	2.50	39564.40	50991.40	39564.40	0.50	0.35	2598.20	2.50	30713.30	49479.90	30713.30	11.144
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.45	3483.08	2.50	39564.40	50267.10	39564.40	0.50	0.35	3692.60	2.50	30713.30	48777.10	30713.30	8.318
2.80	3.35	ø8/10	2	2	5	SLV	0.40	0.45	5779.23	2.50	39564.40	50454.10	39564.40	0.50	0.35	2377.13	2.50	30713.30	48958.50	30713.30	6.846
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.45	3550.15	2.50	26376.30	50941.80	26376.30	0.50	0.35	2598.20	2.50	20475.50	49431.80	20475.50	7.430
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.45	3483.08	2.50	26376.30	50228.90	26376.30	0.50	0.35	3692.60	2.50	20475.50	48740.10	20475.50	5.545
3.35	5.55	ø8/15	2	2	5	SLV	0.40	0.45	5779.23	2.50	26376.30	50415.90	26376.30	0.50	0.35	2377.13	2.50	20475.50	48921.50	20475.50	4.564
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.45	3550.15	2.50	39564.40	50743.50	39564.40	0.50	0.35	2598.20	2.50	30713.30	49239.30	30713.30	11.144
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.45	3483.08	2.50	39564.40	50076.30	39564.40	0.50	0.35	3692.60	2.50	30713.30	48592.00	30713.30	8.318
5.55	6.10	ø8/10	2	2	5	SLV	0.40	0.45	5779.23	2.50	39564.40	50263.30	39564.40	0.50	0.35	2377.13	2.50	30713.30	48773.40	30713.30	6.846

6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	8678.78	2.50	39564.40	50478.20	39564.40	0.50	0.35	2613.26	2.50	30713.30	48982.00	30713.30	4.559
6.35	7.10	ø8/10	2	2	1(TG)	SND	0.40	0.45	7036.27	2.50	39564.40	50175.70	39564.40	0.50	0.35	6269.34	2.50	30713.30	48688.40	30713.30	4.899

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.094259 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=19.8221
  0.09727 >= 0.03034 [7.4.29]
- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.094259 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=20.7824
  0.09727 >= 0.02732 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
116	N	ø10/ 6	Y-	E	2	9.42	7.16	0.50	0.39	0.20	7.85
			Z-	E	2	10.05	8.04	0.50	0.29	0.20	7.85
216	N	ø8/ 8	Y-	E	2	4.02	4.02	0.40	0.39	0.15	3.02
316	N	ø10/ 8	Y-	E	2	9.17	6.03	0.50	0.39	0.20	6.28
			Z-	E	2	7.16	6.03	0.50	0.29	0.20	6.28

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
116	Y-	5	SLV	-5779.23	34788.30	2.82	6.01	138013.00	33519.60	307330.00	---	---
		5	SLV	-5779.23	34788.30	4.50	9.07	135030.00	10353.30	307330.00	---	---
	Z-	5	SLV	-3692.60	39579.40	2.82	6.01	102625.00	262583.00	307330.00	---	---
		5	SLV	-3692.60	39579.40	4.50	9.07	100407.00	208350.00	307330.00	---	---
216	Y-	1	SLV	-6431.02	10877.80	2.47	2.73	112035.00	0.00	196691.00	---	---
		5	SLV	-6431.02	10877.80	3.46	4.02	110622.00	0.00	196691.00	---	---
316	Y-	1	SLV	0.00	39485.70	0.00	2.36	142877.00	161358.00	245864.00	---	---
	Z-	1	SLV	0.00	30831.30	0.00	2.36	106242.00	192014.00	245864.00	---	---

Pilastrata n. 17

Nodi: 17 117 317

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-43737.30	0.00		0.00	-16856.20		-16856.20	-43737.30	0.00	-27780.90	1.648
0.00	5	SLV	1	1	0.00	-43737.30	0.00		0.00	-16856.20		-16856.20	-43737.30	0.00	-27780.90	1.648
2.50	5(α)	SLV	1	1	250.00	-42487.30	1658.59	5.42	8982.15	0.00	1.30	0.00	-42487.30	21202.70	0.00	2.361
2.80	3(α)	SLV	2	1	0.00	-20292.60	4957.61	3.74	18521.90	0.00	4.15	0.00	-20292.60	19663.70	0.00	1.062
2.80	3(α)	SLV	2	1	0.00	-20292.60	4957.61	3.74	18521.90	0.00	4.15	0.00	-20292.60	19663.70	0.00	1.062
7.10	9	SLU	2	1	430.00	-29874.90	0.00		0.00	-18064.80		-18064.80	-29874.90	0.00	-26770.50	1.482

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-54222.00	-9944.28	0.00	15.33	27.90	66.99	842.35
0.00	12	SLE Q	1	1	0.00	-48970.60	-9342.87	0.00	15.33	27.90	62.59	783.44
0.00	10	SLE R	1	1	0.00	-54222.00	-9944.28	0.00	15.33	27.90	66.99	842.35
0.00	12	SLE Q	1	1	0.00	-48970.60	-9342.87	0.00	15.33	27.90	62.59	783.44
2.50	10	SLE R	1	1	250.00	-52972.00	-4782.45	0.00	0.00	43.23	39.90	535.23
2.50	12	SLE Q	1	1	250.00	-47720.60	-3677.41	0.00	0.00	43.23	33.32	451.14
2.80	10	SLE R	2	1	0.00	-23200.60	12049.90	0.00	21.61	21.61	74.05	1220.45
2.80	12	SLE Q	2	1	0.00	-20889.00	10195.90	0.00	21.61	21.61	62.90	1005.55
2.80	10	SLE R	2	1	0.00	-23200.60	12049.90	0.00	21.61	21.61	74.05	1220.45
2.80	12	SLE Q	2	1	0.00	-20889.00	10195.90	0.00	21.61	21.61	62.90	1005.55
7.10	10	SLE R	2	1	430.00	-21050.60	-12766.30	0.00	21.61	21.61	77.74	1370.08
7.10	12	SLE Q	2	1	430.00	-18739.00	-10749.10	0.00	21.61	21.61	65.67	1131.31

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
2.80	12	SLE Q	2	1	0.00	-20889.00	0.00	10195.90	43.00	97.35	0.50	22.18	140.71	15.33	378.11	1005.55	0.31	0.07
2.80	11	SLE F	2	1	0.00	-21324.60	0.00	10603.80	43.00	97.35	0.50	22.18	140.91	15.33	379.51	1054.38	0.31	0.07
2.80	12	SLE Q	2	1	0.00	-20889.00	0.00	10195.90	43.00	97.35	0.50	22.18	140.71	15.33	378.11	1005.55	0.31	0.07
2.80	11	SLE F	2	1	0.00	-21324.60	0.00	10603.80	43.00	97.35	0.50	22.18	140.91	15.33	379.51	1054.38	0.31	0.07
7.10	12	SLE Q	2	1	430.00	-18739.00	0.00	-10749.10	43.00	97.35	0.50	22.18	163.65	15.33	536.67	1131.31	0.33	0.09
7.10	11	SLE F	2	1	430.00	-19174.60	0.00	-11131.20	43.00	97.35	0.50	22.18	163.65	15.33	536.67	1176.57	0.34	0.10

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	2939.27	2.50	39564.40	58993.40	39564.40	0.50	0.35	166.99	2.50	30713.30	57244.70	30713.30	13.461
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	55628.90	39564.40	0.50	0.35	27479.90	2.50	30713.30	53979.90	30713.30	1.118
0.00	0.50	ø8/10	2	2	7(TG)	SLV	0.40	0.45	17924.60	2.50	39564.40	55620.80	39564.40	0.50	0.35	13716.70	2.50	30713.30	53972.10	30713.30	2.207
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2939.27	2.50	26376.30	58948.30	26376.30	0.50	0.35	166.99	2.50	20475.50	57200.90	20475.50	8.974
0.50	2.00	ø8/15	2	2	7(TG)	SLV	0.40	0.45	17924.60	2.50	26376.30	55620.80	26376.30	0.50	0.35	13716.70	2.50	20475.50	53972.10	20475.50	1.472
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2939.27	2.50	39564.40	58813.00	39564.40	0.50	0.35	166.99	2.50	30713.30	57069.70	30713.30	13.461
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	55628.90	39564.40	0.50	0.35	27479.90	2.50	30713.30	53979.90	30713.30	1.118

2.00	2.50	ø8/10	2	2	7(TG)	SLV	0.40	0.45	17924.60	2.50	39564.40	55620.80	39564.40	0.50	0.35	13716.70	2.50	30713.30	53972.10	30713.30	2.207
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.45	8178.42	2.50	39564.40	52814.60	39564.40	0.50	0.35	603.71	2.50	30713.30	51249.00	30713.30	4.838
2.80	3.52	ø8/10	2	2	1	SLV	0.40	0.45	5697.68	2.50	39564.40	51279.70	39564.40	0.50	0.35	3302.21	2.50	30713.30	49759.70	30713.30	6.944
2.80	3.52	ø8/10	2	2	5	SLV	0.40	0.45	7315.53	2.50	39564.40	51486.40	39564.40	0.50	0.35	1331.13	2.50	30713.30	49960.20	30713.30	5.408
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.45	8178.42	2.50	26376.30	52750.00	26376.30	0.50	0.35	603.71	2.50	20475.50	51186.30	20475.50	3.225
3.52	6.38	ø8/15	2	2	1	SLV	0.40	0.45	5697.68	2.50	26376.30	51230.00	26376.30	0.50	0.35	3302.21	2.50	20475.50	49711.40	20475.50	4.629
3.52	6.38	ø8/15	2	2	5	SLV	0.40	0.45	7315.53	2.50	26376.30	51436.70	26376.30	0.50	0.35	1331.13	2.50	20475.50	49912.00	20475.50	3.606
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.45	8178.42	2.50	39564.40	52491.50	39564.40	0.50	0.35	603.71	2.50	30713.30	50935.50	30713.30	4.838
6.38	7.10	ø8/10	2	2	1	SLV	0.40	0.45	5697.68	2.50	39564.40	51031.20	39564.40	0.50	0.35	3302.21	2.50	30713.30	49518.50	30713.30	6.944
6.38	7.10	ø8/10	2	2	5	SLV	0.40	0.45	7315.53	2.50	39564.40	51237.90	39564.40	0.50	0.35	1331.13	2.50	30713.30	49719.10	30713.30	5.408

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52891 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.15574 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=12.0814
  0.09819 >= 0.07295 [7.4.29]
- CC=5 α_e=0.52891 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.15574 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=12.6667
  0.09819 >= 0.06796 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
117	N	ø16/ 5	Z+	I	2	14.07	8.04	0.50	0.27	0.20	24.13
			Y-	E	2	15.71	13.70	0.60	0.37	0.20	24.13
			Z-	I	2	14.07	8.04	0.50	0.27	0.20	24.13
317	N	ø14/ 5	Z+	I	2	8.04	6.03	0.50	0.28	0.20	18.47
			Y-	E	2	12.57	12.57	0.50	0.38	0.20	18.47
			Z-	I	2	8.04	6.03	0.50	0.28	0.20	18.47

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
117	Z+	5	SLV	3302.21	91896.30	5.37	12.21	118904.00	1813000.00	944117.00	91110.50	94411.70
		5	SLV	3302.21	91896.30	6.64	15.21	117298.00	1642740.00	944117.00	90144.70	94411.70
	Y-	5	SLV	-7315.53	60297.00	5.37	12.21	153581.00	175668.00	786764.00	---	---
		5	SLV	-7315.53	60297.00	6.64	15.21	150907.00	148347.00	786764.00	---	---
	Z-	5	SLV	3302.21	91896.30	5.37	12.21	118904.00	1813000.00	944117.00	91110.50	94411.70
		5	SLV	3302.21	91896.30	6.64	15.21	117298.00	1642740.00	944117.00	90144.70	94411.70
317	Z+	1	SLV	0.00	60580.80	0.00	5.18	127307.00	1246260.00	722839.00	60580.80	72284.00
	Y-	1	SLV	0.00	54090.00	0.00	5.18	138481.00	459280.00	722839.00	---	---
	Z-	1	SLV	0.00	60580.80	0.00	5.18	127307.00	1246260.00	722839.00	60580.80	72284.00

Pilastrata n. 18

Nodi: 18 118 318

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-41572.60	0.00		0.00	-16624.90		-16624.90	-41572.60	0.00	-24739.30	1.488
0.00	5	SLV	1	1	0.00	-41572.60	0.00		0.00	-16624.90		-16624.90	-41572.60	0.00	-24739.30	1.488
2.50	5(α)	SLV	1	1	250.00	-40322.60	789.98	8.64	6824.17	0.00	1.30	0.00	-40322.60	18963.40	0.00	2.779
2.80	5(α)	SLV	2	1	0.00	-17849.10	-1829.85	8.64	-15807.00	0.00	2.78	0.00	-17849.10	-17419.90	0.00	1.102
2.80	5(α)	SLV	2	1	0.00	-17849.10	-1829.85	8.64	-15807.00	0.00	2.78	0.00	-17849.10	-17419.90	0.00	1.102
7.10	9	SLU	2	1	430.00	-28435.80	0.00		0.00	-17667.40		-17667.40	-28435.80	0.00	-23770.80	1.345

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-51602.10	-9702.32	0.00	18.85	18.85	69.12	862.28
0.00	12	SLE Q	1	1	0.00	-46598.40	-9122.65	0.00	18.85	18.85	64.72	803.38
0.00	10	SLE R	1	1	0.00	-51602.10	-9702.32	0.00	18.85	18.85	69.12	862.28
0.00	12	SLE Q	1	1	0.00	-46598.40	-9122.65	0.00	18.85	18.85	64.72	803.38
2.50	10	SLE R	1	1	250.00	-50352.10	-4593.81	0.00	0.00	37.70	39.74	532.14
2.50	12	SLE Q	1	1	250.00	-45348.40	-3527.33	0.00	0.00	37.70	33.12	447.66
2.80	10	SLE R	2	1	0.00	-22182.70	11734.70	0.00	18.85	18.85	78.29	1392.26
2.80	12	SLE Q	2	1	0.00	-19970.10	9931.16	0.00	18.85	18.85	66.46	1148.00
2.80	10	SLE R	2	1	0.00	-22182.70	11734.70	0.00	18.85	18.85	78.29	1392.26
2.80	12	SLE Q	2	1	0.00	-19970.10	9931.16	0.00	18.85	18.85	66.46	1148.00
7.10	10	SLE R	2	1	430.00	-20032.70	-12488.70	0.00	18.85	18.85	82.70	1573.33
7.10	12	SLE Q	2	1	430.00	-17820.10	-10515.40	0.00	18.85	18.85	69.80	1300.18

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-46598.40	0.00	-9122.65	43.00	98.00	0.50	20.00	126.90	12.57	256.96	441.43	0.13	0.03
0.00	11	SLE F	1	1	0.00	-47711.10	0.00	-9229.97	43.00	98.00	0.50	20.00	126.42	12.57	253.99	436.84	0.13	0.03
0.00	12	SLE Q	1	1	0.00	-46598.40	0.00	-9122.65	43.00	98.00	0.50	20.00	126.90	12.57	256.96	441.43	0.13	0.03
0.00	11	SLE F	1	1	0.00	-47711.10	0.00	-9229.97	43.00	98.00	0.50	20.00	126.42	12.57	253.99	436.84	0.13	0.03
2.80	12	SLE Q	2	1	0.00	-19970.10	0.00	9931.16	43.00	98.00	0.50	20.00	148.02	12.57	389.67	1148.00	0.34	0.09
2.80	11	SLE F	2	1	0.00	-20386.60	0.00	10327.60	43.00	98.00	0.50	20.00	148.23	12.57	390.99	1203.42	0.35	0.09
2.80	12	SLE Q	2	1	0.00	-19970.10	0.00	9931.16	43.00	98.00	0.50	20.00	148.02	12.57	389.67	1148.00	0.34	0.09
2.80	11	SLE F	2	1	0.00	-20386.60	0.00	10327.60	43.00	98.00	0.50	20.00	148.23	12.57	390.99	1203.42	0.35	0.09

7.10	12	SLE Q	2	1	430.00	-17820.10	0.00	-10515.40	43.00	98.00	0.50	20.00	149.79	12.57	400.80	1300.18	0.41	0.11
7.10	11	SLE F	2	1	430.00	-18236.60	0.00	-10888.50	43.00	98.00	0.50	20.00	149.90	12.57	401.49	1351.85	0.39	0.10

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	2912.18	2.50	39564.40	58474.80	39564.40	0.50	0.35	0.00	2.50	30713.30	56741.50	30713.30	13.586
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	55271.20	39564.40	0.50	0.35	24632.50	2.50	30713.30	53632.80	30713.30	1.247
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	16003.50	2.50	39564.40	55271.20	39564.40	0.50	0.35	12294.60	2.50	30713.30	53632.80	30713.30	2.472
0.50	2.00	ø8/20	2	2	9	SLU	0.40	0.45	2912.18	2.50	19782.20	58429.80	19782.20	0.50	0.35	0.00	2.50	15356.70	56697.80	15356.70	6.793
0.50	2.00	ø8/20	2	2	5(TG)	SLV	0.40	0.45	16003.50	2.50	19782.20	55271.20	19782.20	0.50	0.35	12294.60	2.50	15356.70	53632.80	15356.70	1.236
2.00	2.50	ø8/15	2	2	9	SLU	0.40	0.45	2912.18	2.50	26376.30	58294.50	26376.30	0.50	0.35	0.00	2.50	20475.50	56566.50	20475.50	9.057
2.00	2.50	ø8/15	2	2	5(TG)	SLV	0.40	0.45	16003.50	2.50	26376.30	55271.20	26376.30	0.50	0.35	12294.60	2.50	20475.50	53632.80	20475.50	1.648
2.80	3.52	ø8/15	2	2	9	SLU	0.40	0.45	7981.30	2.50	26376.30	52614.90	26376.30	0.50	0.35	0.00	2.50	20475.50	51055.30	20475.50	3.305
2.80	3.52	ø8/15	2	2	1	SLV	0.40	0.45	5476.64	2.50	26376.30	51141.10	26376.30	0.50	0.35	2924.36	2.50	20475.50	49625.10	20475.50	4.816
2.80	3.52	ø8/15	2	2	5	SLV	0.40	0.45	7160.44	2.50	26376.30	51347.00	26376.30	0.50	0.35	877.31	2.50	20475.50	49825.00	20475.50	3.684
3.52	6.38	ø8/20	2	2	9	SLU	0.40	0.45	7981.30	2.50	19782.20	52550.30	19782.20	0.50	0.35	0.00	2.50	15356.70	50992.60	15356.70	2.479
3.52	6.38	ø8/20	2	2	1	SLV	0.40	0.45	5476.64	2.50	19782.20	51091.40	19782.20	0.50	0.35	2924.36	2.50	15356.70	49576.90	15356.70	3.612
3.52	6.38	ø8/20	2	2	5	SLV	0.40	0.45	7160.44	2.50	19782.20	51297.30	19782.20	0.50	0.35	877.31	2.50	15356.70	49776.80	15356.70	2.763
6.38	7.10	ø8/15	2	2	9	SLU	0.40	0.45	7981.30	2.50	26376.30	52291.80	26376.30	0.50	0.35	0.00	2.50	20475.50	50741.80	20475.50	3.305
6.38	7.10	ø8/15	2	2	1	SLV	0.40	0.45	5476.64	2.50	26376.30	50892.50	26376.30	0.50	0.35	2924.35	2.50	20475.50	49384.00	20475.50	4.816
6.38	7.10	ø8/15	2	2	5	SLV	0.40	0.45	7160.44	2.50	26376.30	51098.50	26376.30	0.50	0.35	877.31	2.50	20475.50	49583.80	20475.50	3.684

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.14833 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=12.5968
  0.09727 >= 0.06782 [7.4.29]
- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.14833 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=13.2071
  0.09727 >= 0.06306 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
118	N	ø14/ 4	Z+	I	2	12.06	8.04	0.50	0.28	0.20	21.55
			Y-	E	2	14.58	13.70	0.60	0.38	0.20	21.55
			Z-	I	2	12.06	8.04	0.50	0.28	0.20	21.55
318	N	ø14/ 5	Z+	I	2	7.16	6.03	0.50	0.28	0.20	18.47
			Y-	E	2	12.57	12.57	0.50	0.38	0.20	18.47
			Z-	I	2	7.16	6.03	0.50	0.28	0.20	18.47

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
118	Z+	5	SLV	-2924.36	83619.70	5.13	11.59	122686.00	1415230.00	843313.00	82993.40	84331.30
		5	SLV	-2924.36	83619.70	6.35	14.47	121101.00	1282320.00	843313.00	82149.60	84331.30
	Y-	5	SLV	-7160.44	55584.00	5.13	11.59	157376.00	122321.00	702760.00	---	---
		5	SLV	-7160.44	55584.00	6.35	14.47	154761.00	100096.00	702760.00	---	---
	Z-	5	SLV	-2924.36	83619.70	5.13	11.59	122686.00	1415230.00	843313.00	82993.40	84331.30
		5	SLV	-2924.36	83619.70	6.35	14.47	121101.00	1282320.00	843313.00	82149.60	84331.30
318	Z+	1	SLV	0.00	56794.50	0.00	4.94	129139.00	1044470.00	722839.00	56794.50	72284.00
	Y-	1	SLV	0.00	54090.00	0.00	4.94	139946.00	446852.00	722839.00	---	---
	Z-	1	SLV	0.00	56794.50	0.00	4.94	129139.00	1044470.00	722839.00	56794.50	72284.00

Pilastrata n. 19

Nodi: 19 119 319

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.50	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	5	SLV	1	1	0.00	-43737.30	0.00		0.00	-16856.20		-16856.20	-43737.30	0.00	-27780.90	1.648
0.00	5	SLV	1	1	0.00	-43737.30	0.00		0.00	-16856.20		-16856.20	-43737.30	0.00	-27780.90	1.648
2.50	5(α)	SLV	1	1	250.00	-42487.30	-1658.59	5.85	-9707.61	0.00	1.30	0.00	-42487.30	-21202.80	0.00	2.184
2.80	3(α)	SLV	2	1	0.00	-20292.60	6902.77	2.63	18144.70	0.00	4.15	0.00	-20292.60	19663.60	0.00	1.084
2.80	3(α)	SLV	2	1	0.00	-20292.60	6902.77	2.63	18144.70	0.00	4.15	0.00	-20292.60	19663.60	0.00	1.084
7.10	9	SLU	2	1	430.00	-29874.90	0.00		0.00	-18064.80		-18064.80	-29874.90	0.00	-26770.50	1.482

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,r <daNm>	M'ydz,r <daNm>	Sic.
2.80	3	SND	2	1	0.00	-19342.80	14445.90	14445.90	0.00	0.00	-19342.80	16031.10	0.00	1.110
2.80	3	SND	2	1	0.00	-19342.80	14445.90	14445.90	0.00	0.00	-19342.80	16031.10	0.00	1.110

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-54222.00	-9944.26	0.00	15.33	27.90	66.99	842.34
0.00	12	SLE Q	1	1	0.00	-48970.60	-9342.85	0.00	15.33	27.90	62.59	783.44
0.00	10	SLE R	1	1	0.00	-54222.00	-9944.26	0.00	15.33	27.90	66.99	842.34
0.00	12	SLE Q	1	1	0.00	-48970.60	-9342.85	0.00	15.33	27.90	62.59	783.44
2.50	10	SLE R	1	1	250.00	-52972.00	-4782.45	0.00	0.00	43.23	39.90	535.23

2.50	12	SLE Q	1	1	250.00	-47720.60	-3677.41	0.00	0.00	43.23	33.32	451.14
2.80	10	SLE R	2	1	0.00	-23200.60	12049.90	0.00	21.61	21.61	74.05	1220.44
2.80	12	SLE Q	2	1	0.00	-20889.00	10195.90	0.00	21.61	21.61	62.90	1005.55
2.80	10	SLE R	2	1	0.00	-23200.60	12049.90	0.00	21.61	21.61	74.05	1220.44
2.80	12	SLE Q	2	1	0.00	-20889.00	10195.90	0.00	21.61	21.61	62.90	1005.55
7.10	10	SLE R	2	1	430.00	-21050.60	-12766.30	0.00	21.61	21.61	77.74	1370.08
7.10	12	SLE Q	2	1	430.00	-18739.00	-10749.10	0.00	21.61	21.61	65.67	1131.31

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-48970.60	0.00	-9342.85	43.00	97.36	0.50	22.18	120.69	15.33	239.79	371.98	0.11	0.02
0.00	11	SLE F	1	1	0.00	-50138.30	0.00	-9454.31	43.00	97.36	0.50	22.18	120.27	15.33	236.82	367.84	0.11	0.02
0.00	12	SLE Q	1	1	0.00	-48970.60	0.00	-9342.85	43.00	97.36	0.50	22.18	120.69	15.33	239.79	371.98	0.11	0.02
0.00	11	SLE F	1	1	0.00	-50138.30	0.00	-9454.31	43.00	97.36	0.50	22.18	120.27	15.33	236.82	367.84	0.11	0.02
2.80	12	SLE Q	2	1	0.00	-20889.00	0.00	10195.90	43.00	97.36	0.50	22.18	140.71	15.33	378.14	1005.55	0.31	0.07
2.80	11	SLE F	2	1	0.00	-21324.60	0.00	10603.80	43.00	97.36	0.50	22.18	140.91	15.33	379.54	1054.37	0.31	0.07
2.80	12	SLE Q	2	1	0.00	-20889.00	0.00	10195.90	43.00	97.36	0.50	22.18	140.71	15.33	378.14	1005.55	0.31	0.07
2.80	11	SLE F	2	1	0.00	-21324.60	0.00	10603.80	43.00	97.36	0.50	22.18	140.91	15.33	379.54	1054.37	0.31	0.07
7.10	12	SLE Q	2	1	430.00	-18739.00	0.00	-10749.10	43.00	97.36	0.50	22.18	142.32	15.33	389.27	1131.31	0.37	0.09
7.10	11	SLE F	2	1	430.00	-19174.60	0.00	-11131.20	43.00	97.36	0.50	22.18	142.43	15.33	390.01	1176.57	0.34	0.08

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	2939.26	2.50	39564.40	58993.40	39564.40	0.50	0.35	166.99	2.50	30713.30	57244.70	30713.30	13.461
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	55628.50	39564.40	0.50	0.35	27479.90	2.50	30713.30	53979.60	30713.30	1.118
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	17927.30	2.50	39564.40	55628.50	39564.40	0.50	0.35	13718.60	2.50	30713.30	53979.60	30713.30	2.207
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2939.26	2.50	26376.30	58948.30	26376.30	0.50	0.35	166.99	2.50	20475.50	57200.90	20475.50	8.974
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	17927.30	2.50	26376.30	55628.50	26376.30	0.50	0.35	13718.60	2.50	20475.50	53979.60	20475.50	1.471
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2939.26	2.50	39564.40	58813.00	39564.40	0.50	0.35	166.99	2.50	30713.30	57069.70	30713.30	13.461
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	55628.50	39564.40	0.50	0.35	27479.90	2.50	30713.30	53979.60	30713.30	1.118
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	17927.30	2.50	39564.40	55628.50	39564.40	0.50	0.35	13718.60	2.50	30713.30	53979.60	30713.30	2.207
2.80	3.52	ø8/10	2	2	9	SLU	0.40	0.45	8178.42	2.50	39564.40	52814.60	39564.40	0.50	0.35	603.71	2.50	30713.30	51249.00	30713.30	4.838
2.80	3.52	ø8/10	2	2	1(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	50981.80	39564.40	0.50	0.35	14413.80	2.50	30713.30	49470.60	30713.30	2.131
2.80	3.52	ø8/10	2	2	5	SLV	0.40	0.45	7315.54	2.50	39564.40	51486.40	39564.40	0.50	0.35	1331.13	2.50	30713.30	49960.20	30713.30	5.408
3.52	6.38	ø8/15	2	2	9	SLU	0.40	0.45	8178.42	2.50	26376.30	52750.00	26376.30	0.50	0.35	603.71	2.50	20475.50	51186.30	20475.50	3.225
3.52	6.38	ø8/15	2	2	1(TG)	SLV	0.40	0.45	0.00	2.50	26376.30	50981.80	26376.30	0.50	0.35	14413.80	2.50	20475.50	49470.60	20475.50	1.421
3.52	6.38	ø8/15	2	2	5	SLV	0.40	0.45	7315.54	2.50	26376.30	51436.70	26376.30	0.50	0.35	1331.13	2.50	20475.50	49912.00	20475.50	3.606
6.38	7.10	ø8/10	2	2	9	SLU	0.40	0.45	8178.42	2.50	39564.40	52491.50	39564.40	0.50	0.35	603.71	2.50	30713.30	50935.50	30713.30	4.838
6.38	7.10	ø8/10	2	2	1(TG)	SLV	0.40	0.45	0.00	2.50	39564.40	50981.80	39564.40	0.50	0.35	14413.80	2.50	30713.30	49470.60	30713.30	2.131
6.38	7.10	ø8/10	2	2	5	SLV	0.40	0.45	7315.53	2.50	39564.40	51237.90	39564.40	0.50	0.35	1331.13	2.50	30713.30	49719.10	30713.30	5.408

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52891 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.15574 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=12.0814
  0.09819 >= 0.07295 [7.4.29]
- CC=5 α_e=0.52891 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 ν_d=0.15574 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=12.6667
  0.09819 >= 0.06796 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
119	N	ø16/ 4	Z+	I	2	16.09	8.04	0.50	0.27	0.20	28.15
			Y-	E	2	15.71	13.70	0.60	0.37	0.20	28.15
			Z-	I	2	16.09	8.04	0.50	0.27	0.20	28.15
319	N	ø14/ 5	Z+	I	2	8.04	6.03	0.50	0.28	0.20	18.47
			Y-	E	2	12.57	12.57	0.50	0.38	0.20	18.47
			Z-	I	2	8.04	6.03	0.50	0.28	0.20	18.47

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	νd_s	νd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
119	Z+	5	SLV	-3302.21	100551.00	5.37	12.21	118905.00	2197610.00	1101470.00	99393.20	110147.00
		5	SLV	-3302.21	100551.00	6.64	15.21	117299.00	1993770.00	1101470.00	98339.70	110147.00
	Y-	5	SLV	-7315.54	60297.00	5.37	12.21	153580.00	175670.00	917894.00	---	---
		5	SLV	-7315.54	60297.00	6.64	15.21	150906.00	148348.00	917894.00	---	---
	Z-	5	SLV	-3302.21	100551.00	5.37	12.21	118905.00	2197610.00	1101470.00	99393.20	110147.00
		5	SLV	-3302.21	100551.00	6.64	15.21	117299.00	1993770.00	1101470.00	98339.70	110147.00
319	Z+	1	SLV	0.00	60580.80	0.00	5.18	127308.00	1246240.00	722839.00	60580.80	72284.00
	Y-	1	SLV	0.00	54090.00	0.00	5.18	138481.00	459280.00	722839.00	---	---
	Z-	1	SLV	0.00	60580.80	0.00	5.18	127308.00	1246240.00	722839.00	60580.80	72284.00

Pilastrata n. 20

Nodi: 20 120 220 320

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
1	R	50.00	40.00	5.30	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	α_y	My ver. <daNm>	Mz <daNm>	α_z	Mz ver. <daNm>	Nu <daN>	MRdy,r <daNm>	MRdz,r <daNm>	Sic.
0.00	1	SLV	1	1	0.00	-24389.20	15115.80		15115.80	0.00		0.00	-24389.20	16143.70	0.00	1.068
0.00	1	SLV	1	1	0.00	-24389.20	15115.80		15115.80	0.00		0.00	-24389.20	16143.70	0.00	1.068
2.50	1(α)	SLV	1	1	250.00	-23139.20	4329.76	1.30	5628.69	0.00	1.42	0.00	-23139.20	16058.90	0.00	2.853

2.80	1(α)	SLV	2	1	0.00	-11155.00	-9639.60	1.30	-12531.50	0.00	3.22	0.00	-11155.00	-15174.30	0.00	1.211
2.80	1(α)	SLV	2	1	0.00	-11155.00	-9639.60	1.30	-12531.50	0.00	3.22	0.00	-11155.00	-15174.30	0.00	1.211
6.10	5(α)	SLV	2	1	330.00	-8157.05	0.00	1.00	0.00	-7230.28	1.30	-9399.36	-8157.05	0.00	-19572.10	2.082
6.35	5(α)	SLV	3	1	0.00	-7946.74	0.00	1.00	0.00	-5279.93	1.30	-6863.90	-7946.74	0.00	-19544.30	2.847
6.35	5(α)	SLV	3	1	0.00	-7946.74	0.00	1.00	0.00	-5279.93	1.30	-6863.90	-7946.74	0.00	-19544.30	2.847
7.10	5	SLV	3	1	75.00	-7571.74	0.00		0.00	-10055.60		-10055.60	-7571.74	0.00	-19495.30	1.939

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
0.00	10	SLE R	1	1	0.00	-30197.70	0.00	10561.70	16.59	16.59	102.00	1741.03
0.00	12	SLE Q	1	1	0.00	-27486.00	0.00	9456.71	16.59	16.59	91.36	1545.55
0.00	10	SLE R	1	1	0.00	-30197.70	0.00	10561.70	16.59	16.59	102.00	1741.03
0.00	12	SLE Q	1	1	0.00	-27486.00	0.00	9456.71	16.59	16.59	91.36	1545.55
2.50	10	SLE R	1	1	250.00	-28947.70	-3192.48	0.00	0.00	33.18	25.82	341.68
2.50	12	SLE Q	1	1	250.00	-26236.00	0.00	2460.61	10.30	22.87	25.63	325.20
2.80	10	SLE R	2	1	0.00	-13954.10	0.00	-5244.96	16.59	16.59	50.58	895.83
2.80	12	SLE Q	2	1	0.00	-12730.60	0.00	-5070.34	16.59	16.59	48.84	888.95
2.80	10	SLE R	2	1	0.00	-13954.10	0.00	-5244.96	16.59	16.59	50.58	895.83
2.80	12	SLE Q	2	1	0.00	-12730.60	0.00	-5070.34	16.59	16.59	48.84	888.95
6.10	10	SLE R	2	1	330.00	-12304.10	-2234.47	0.00	12.57	20.61	16.11	202.21
6.10	12	SLE Q	2	1	330.00	-11080.60	-1919.56	0.00	12.57	20.61	13.92	175.77
6.35	10	SLE R	3	1	0.00	-11215.30	-1855.00	0.00	12.57	20.61	13.54	171.94
6.35	12	SLE Q	3	1	0.00	-10001.40	0.00	1215.97	10.30	22.87	12.09	147.80
6.35	10	SLE R	3	1	0.00	-11215.30	-1855.00	0.00	12.57	20.61	13.54	171.94
6.35	12	SLE Q	3	1	0.00	-10001.40	0.00	1215.97	10.30	22.87	12.09	147.80
7.10	10	SLE R	3	1	75.00	-10840.30	-6479.48	0.00	16.59	16.59	43.26	837.34
7.10	12	SLE Q	3	1	75.00	-9626.43	-5400.78	0.00	16.59	16.59	36.17	681.37

Stato limite d'esercizio - Verifiche a fessurazione

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
0.00	12	SLE Q	1	1	0.00	-27486.00	9456.71	0.00	43.00	132.01	0.50	18.22	155.55	10.30	393.31	1545.55	0.50	0.13
0.00	11	SLE F	1	1	0.00	-28088.60	9702.55	0.00	43.00	132.01	0.50	18.22	155.61	10.30	393.62	1589.06	0.46	0.12
0.00	12	SLE Q	1	1	0.00	-27486.00	9456.71	0.00	43.00	132.01	0.50	18.22	155.55	10.30	393.31	1545.55	0.50	0.13
0.00	11	SLE F	1	1	0.00	-28088.60	9702.55	0.00	43.00	132.01	0.50	18.22	155.61	10.30	393.62	1589.06	0.46	0.12
2.80	12	SLE Q	2	1	0.00	-12730.60	-5070.34	0.00	43.00	132.01	0.50	18.22	157.42	10.30	403.87	888.95	0.26	0.07
2.80	11	SLE F	2	1	0.00	-12961.10	-5109.26	0.00	43.00	132.01	0.50	18.22	157.30	10.30	403.19	891.75	0.26	0.07
2.80	12	SLE Q	2	1	0.00	-12730.60	-5070.34	0.00	43.00	132.01	0.50	18.22	157.42	10.30	403.87	888.95	0.26	0.07
2.80	11	SLE F	2	1	0.00	-12961.10	-5109.26	0.00	43.00	132.01	0.50	18.22	157.30	10.30	403.19	891.75	0.26	0.07
7.10	12	SLE Q	3	1	75.00	-9626.43	0.00	-5400.78	43.00	98.00	0.50	20.00	150.05	12.57	402.45	681.37	0.20	0.05
7.10	11	SLE F	3	1	75.00	-9854.63	0.00	-5607.33	43.00	98.00	0.50	20.00	150.20	12.57	403.36	711.34	0.21	0.05

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br_y	Br_z	CC	TCC	$bw_{,y}$ <m>	$d_{,y}$ <m>	$Vsdu_{,y}$ <daN>	$ctg\theta_{,y}$	$VRsd_{,y}$ <daN>	$VRcd_{,y}$ <daN>	$Vrd_{,y}$ <daN>	$bw_{,z}$ <m>	$d_{,z}$ <m>	$Vsdu_{,z}$ <daN>	$ctg\theta_{,z}$	$VRsd_{,z}$ <daN>	$VRcd_{,z}$ <daN>	$Vrd_{,z}$ <daN>	Sic.
0.00	0.50	ø8/10	2	2	9	SLU	0.40	0.45	2314.18	2.50	39564.40	54213.10	39564.40	0.50	0.35	4528.20	2.50	30713.30	52606.10	30713.30	6.783
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	14151.20	2.50	39564.40	52660.60	39564.40	0.50	0.35	10503.60	2.50	30713.30	51099.60	30713.30	2.796
0.00	0.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	28396.50	2.50	39564.40	52660.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51099.60	30713.30	1.393
0.50	2.00	ø8/15	2	2	9	SLU	0.40	0.45	2314.18	2.50	26376.30	54168.10	26376.30	0.50	0.35	4528.20	2.50	20475.50	52562.40	20475.50	4.522
0.50	2.00	ø8/15	2	2	5(TG)	SLV	0.40	0.45	14151.20	2.50	26376.30	52660.60	26376.30	0.50	0.35	10503.60	2.50	20475.50	51099.60	20475.50	1.864
2.00	2.50	ø8/10	2	2	9	SLU	0.40	0.45	2314.18	2.50	39564.40	54032.80	39564.40	0.50	0.35	4528.20	2.50	30713.30	52431.20	30713.30	6.783
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	14151.20	2.50	39564.40	52660.60	39564.40	0.50	0.35	10503.60	2.50	30713.30	51099.60	30713.30	2.796
2.00	2.50	ø8/10	2	2	5(TG)	SLV	0.40	0.45	28396.50	2.50	39564.40	52660.60	39564.40	0.50	0.35	0.00	2.50	30713.30	51099.60	30713.30	1.393
2.80	3.35	ø8/10	2	2	9	SLU	0.40	0.45	3550.15	2.50	39564.40	50991.40	39564.40	0.50	0.35	2598.20	2.50	30713.30	49479.90	30713.30	11.144
2.80	3.35	ø8/10	2	2	1	SLV	0.40	0.45	3483.08	2.50	39564.40	50267.10	39564.40	0.50	0.35	3692.60	2.50	30713.30	48777.10	30713.30	8.318
2.80	3.35	ø8/10	2	2	5	SLV	0.40	0.45	5779.23	2.50	39564.40	50454.10	39564.40	0.50	0.35	2377.12	2.50	30713.30	48958.50	30713.30	6.846
3.35	5.55	ø8/15	2	2	9	SLU	0.40	0.45	3550.15	2.50	26376.30	50941.80	26376.30	0.50	0.35	2598.20	2.50	20475.50	49431.80	20475.50	7.430
3.35	5.55	ø8/15	2	2	1	SLV	0.40	0.45	3483.08	2.50	26376.30	50228.90	26376.30	0.50	0.35	3692.60	2.50	20475.50	48740.10	20475.50	5.545
3.35	5.55	ø8/15	2	2	5	SLV	0.40	0.45	5779.23	2.50	26376.30	50415.90	26376.30	0.50	0.35	2377.12	2.50	20475.50	48921.50	20475.50	4.564
5.55	6.10	ø8/10	2	2	9	SLU	0.40	0.45	3550.15	2.50	39564.40	50743.50	39564.40	0.50	0.35	2598.20	2.50	30713.30	49239.30	30713.30	11.144
5.55	6.10	ø8/10	2	2	1	SLV	0.40	0.45	3483.07	2.50	39564.40	50076.30	39564.40	0.50	0.35	3692.60	2.50	30713.30	48592.00	30713.30	8.318
5.55	6.10	ø8/10	2	2	5	SLV	0.40	0.45	5779.23	2.50	39564.40	50263.30	39564.40	0.50	0.35	2377.12	2.50	30713.30	48773.40	30713.30	6.846
6.35	7.10	ø8/10	2	2	9	SLU	0.40	0.45	8678.78	2.50	39564.40	50478.20	39564.40	0.50	0.35	2613.26	2.50	30713.30	48982.00	30713.30	4.559
6.35	7.10	ø8/10	2	2	1(TG)	SND	0.40	0.45	7036.31	2.50	39564.40	50175.70	39564.40	0.50	0.35	6269.35	2.50	30713.30	48688.40	30713.30	4.899

Dettagli costruttivi per la duttilità

- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.094259 $E_{sy,d}$=0.0018995 b_c/b_0=1.24224 $\mu\Phi_c$=19.8221 0.09727 >= 0.03034 [7.4.29]
- CC=5 α_e=0.52391 ω_{wd}=0.18565 $\mu\Phi_d$=9.792 v_d=0.094259 $E_{sy,d}$=0.0018995 b_c/b_0=1.18483 $\mu\Phi_c$=20.7824 0.09727 >= 0.02732 [7.4.29]

Caratteristiche nodi trave-pilastro

Nodo	Conf.	Staff.	F	Mod.	Br.	As1 <cmq>	As2 <cmq>	Bj <m>	Hjc <m>	Hjw <m>	Ash <cmq>
120	N	ø10/ 6	Z+	E	2	10.05	8.04	0.50	0.29	0.20	7.85
			Y-	E	2	9.42	7.16	0.50	0.39	0.20	7.85
220	N	ø8/ 8	Y-	E	2	4.02	4.02	0.40	0.39	0.15	3.02
320	N	ø10/ 8	Z+	E	2	7.16	6.03	0.50	0.29	0.20	6.28
			Y-	E	2	9.17	6.03	0.50	0.39	0.20	6.28

Verifiche nodi trave-pilastro

Nodo	F	CC	TCC	Vc <daN>	Vjbd <daN>	vd_s	vd_i	VjbR <daN>	Afni <daN/mq>	Rfni <daN/mq>	Vjwd <daN>	VjwR <daN>
120	Z+	5	SLV	3692.60	39579.40	2.82	6.01	102625.00	262585.00	307330.00	---	---
		5	SLV	3692.60	39579.40	4.50	9.07	100407.00	208351.00	307330.00	---	---

	Y-	5	SLV	-5779.23	34788.30	2.82	6.01	138013.00	33519.60	307330.00	---	---
		5	SLV	-5779.23	34788.30	4.50	9.07	135030.00	10353.30	307330.00	---	---
220	Y-	1	SLV	-6431.03	10877.80	2.47	2.73	112035.00	0.00	196691.00	---	---
		5	SLV	-6431.03	10877.80	3.46	4.02	110622.00	0.00	196691.00	---	---
320	Z+	1	SLV	0.00	30831.30	0.00	2.36	106242.00	192015.00	245864.00	---	---
	Y-	1	SLV	0.00	39485.70	0.00	2.36	142877.00	161358.00	245864.00	---	---

Verifiche e armature solette/platee

Simbologia

Δ_{sm} = Distanza media tra le fessure
Φ_{eq} = Diametro equivalente delle barre
β (u_0) = Coeff. amplificativo dello sforzo di punzonamento sul perimetro u_0
β (u_1) = Coeff. amplificativo dello sforzo di punzonamento sul perimetro u_1
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
ν = Coeff. di riduzione della resistenza per il calcestruzzo fessurato a taglio
ρ_l = Rapporto d'armatura longitudinale (*1000)
σ_c = Tensione nel calcestruzzo
σ_f = Tensione nel ferro
σ_s = Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
A_{sw} = Area di armatura a taglio a punzonamento
AfE I = Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfE S = Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE St. = Area di ferro effettiva della staffatura
CC = Numero della combinazione delle condizioni di carico elementari
Cf inf = Copriferro inferiore
Cf sup = Copriferro superiore
Cls = Tipo di calcestruzzo
DV = Direzione di verifica
XX = Verifica per momento Mxx
YY = Verifica per momento Myy
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
K_2 = Coefficiente per distribuzione deformazioni
M'ydy = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
Mom = Momento flettente
My = Momento flettente intorno all'asse Y
Mz = Momento intorno all'asse Z
Nodo = Numero del nodo
Pil = Numero del pilastro
Sic. = Sicurezza
Spess. = Spessore
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
SLD = Stato limite di danno
SLV = Stato limite di salvaguardia della vita
SND = Stato limite di salvaguardia della vita (non dissipativo)
Tp = Tipo di acciaio
$V_{Ed,red}$ (u_0) = Valore di progetto del taglio agente ridotto sul perimetro u_0
$V_{Ed,red}$ (u_1) = Valore di progetto del taglio agente ridotto sul perimetro u_1
$V_{Rd,c}$ = Resistenza di progetto a punzonamento
$V_{Rd,cs}$ = Resistenza a taglio punzonamento
$V_{Rd,max}$ = Valore di progetto del max taglio punzonamento resistente lungo la sez. di verifica
VRcd = Taglio ultimo lato calcestruzzo
VRsd = Taglio ultimo lato armatura
Vrdu = Taglio ultimo resistente
Vsdu = Taglio agente nella direzione del momento ultimo
Wk = Ampiezza caratteristica delle fessure
X = Coordinata X del nodo
Y = Coordinata Y del nodo
a = Distanza dal contorno del pilastro al perimetro di verifica considerato
c = Ricoprimento dell'armatura
ctgθ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
d = Media delle altezze utili nelle due direzioni ortogonali
s = Distanza massima tra le barre
u_0 = Perimetro del pilastro
u_1 = Perimetro di verifica di base
$u_{out,ef}$ = Perimetro u_{out} efficace oltre il quale non sono più richieste armature
v_{Ed} (u_0) = Tensione max di taglio sul perimetro u_0
v_{Ed} (u_1) = Tensione max di taglio sul perimetro u_1

Armatura platea a quota 0.00

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
40.00	4.00	4.00	C30/37	307.10	20.59	174.02	13.73	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	MRdy <daNm>	Sic.
-906	20.29	15.47	XX	9	SLU	7.70	7.70	18876.90	10833.20	0.574

-887	6.38	15.47	XX	9	SLU	7.70	7.70	10391.30	10833.20	1.043
-882	2.84	15.47	XX	9	SLU	7.70	7.70	-14639.50	-10833.20	0.740
20	27.38	15.27	YY	9	SLU	7.70	7.70	3780.90	10833.20	2.865
-805	0.00	14.53	YY	9	SLU	7.70	7.70	-603.73	-10833.20	17.944
-727	0.00	13.04	YY	9	SLU	7.70	7.70	-11615.30	-10833.20	0.933
-659	7.09	11.56	YY	9	SLU	7.70	11.47	-5275.91	-10861.30	2.059
-620	7.09	10.81	YY	9	SLU	7.70	11.47	3565.00	15627.50	4.384
-459	0.00	7.93	YY	9	SLU	7.70	11.47	-6765.03	-10861.30	1.606
-610	0.00	10.81	YY	9	SLU	7.70	11.47	3997.17	15627.50	3.910
7	7.09	5.07	YY	9	SLU	7.70	11.47	10824.30	15627.50	1.444
6	0.00	5.07	YY	9	SLU	7.70	11.47	12136.50	15627.50	1.288
8	13.69	5.07	YY	9	SLU	7.70	11.47	10268.00	15627.50	1.522
-629	13.69	10.81	YY	9	SLU	7.70	11.47	3292.73	15627.50	4.746
-668	13.69	11.56	YY	9	SLU	7.70	11.47	-5198.96	-10861.30	2.089
9	20.29	5.07	YY	9	SLU	7.70	11.47	10824.30	15627.50	1.444
-638	20.29	10.81	YY	9	SLU	7.70	11.47	3565.02	15627.50	4.384
-677	20.29	11.56	YY	9	SLU	7.70	11.47	-5275.92	-10861.30	2.059
10	27.38	5.07	YY	9	SLU	7.70	11.47	12136.50	15627.50	1.288
-648	27.38	10.81	YY	9	SLU	7.70	11.47	3997.17	15627.50	3.910
-497	27.38	7.93	YY	9	SLU	7.70	11.47	-6765.03	-10861.30	1.606

Stato limite elastico - Verifiche a flessione/pressoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
-906	20.29	15.47	XX	1	SLV(E)	7.70	7.70	19704.80	10058.50	0.510
-906	20.29	15.47	XX	1	SLV(E)	7.70	7.70	6446.71	10058.50	1.560
-906	20.29	15.47	XX	3	SLV(E)	7.70	7.70	18093.30	10058.50	0.556
-906	20.29	15.47	XX	3	SLV(E)	7.70	7.70	8058.20	10058.50	1.248
-906	20.29	15.47	XX	5	SLV(E)	7.70	7.70	17508.60	10058.50	0.574
-906	20.29	15.47	XX	5	SLV(E)	7.70	7.70	8642.95	10058.50	1.164
-906	20.29	15.47	XX	7	SLV(E)	7.70	7.70	14014.60	10058.50	0.718
-906	20.29	15.47	XX	7	SLV(E)	7.70	7.70	12136.90	10058.50	0.829
-887	6.38	15.47	XX	1	SLV(E)	7.70	7.70	11233.70	10058.50	0.895
-887	6.38	15.47	XX	1	SLV(E)	7.70	7.70	3111.58	10058.50	3.233
-887	6.38	15.47	XX	3	SLV(E)	7.70	7.70	10353.20	10058.50	0.972
-887	6.38	15.47	XX	3	SLV(E)	7.70	7.70	3992.15	10058.50	2.520
-887	6.38	15.47	XX	5	SLV(E)	7.70	7.70	9726.52	10058.50	1.034
-887	6.38	15.47	XX	5	SLV(E)	7.70	7.70	4618.79	10058.50	2.178
-887	6.38	15.47	XX	7	SLV(E)	7.70	7.70	7554.04	10058.50	1.332
-887	6.38	15.47	XX	7	SLV(E)	7.70	7.70	6791.27	10058.50	1.481
-882	2.84	15.47	XX	1	SLV(E)	7.70	7.70	-8294.19	-10058.50	1.213
-882	2.84	15.47	XX	1	SLV(E)	7.70	7.70	-12232.50	-10058.50	0.822
-882	2.84	15.47	XX	3	SLV(E)	7.70	7.70	-9382.16	-10058.50	1.072
-882	2.84	15.47	XX	3	SLV(E)	7.70	7.70	-11144.50	-10058.50	0.903
-882	2.84	15.47	XX	5	SLV(E)	7.70	7.70	-8022.49	-10058.50	1.254
-882	2.84	15.47	XX	5	SLV(E)	7.70	7.70	-12504.20	-10058.50	0.804
-882	2.84	15.47	XX	7	SLV(E)	7.70	7.70	-8877.58	-10058.50	1.133
-882	2.84	15.47	XX	7	SLV(E)	7.70	7.70	-11649.10	-10058.50	0.863
20	27.38	15.27	YY	1	SLV(E)	7.70	7.70	4100.66	10058.50	2.453
20	27.38	15.27	YY	1	SLV(E)	7.70	7.70	1446.54	10058.50	6.954
20	27.38	15.27	YY	3	SLV(E)	7.70	7.70	2565.72	10058.50	3.920
20	27.38	15.27	YY	3	SLV(E)	7.70	7.70	2981.47	10058.50	3.374
20	27.38	15.27	YY	5	SLV(E)	7.70	7.70	5499.70	10058.50	1.829
20	27.38	15.27	YY	5	SLV(E)	7.70	7.70	47.49	10058.50	>100
20	27.38	15.27	YY	7	SLV(E)	7.70	7.70	5163.94	10058.50	1.948
20	27.38	15.27	YY	7	SLV(E)	7.70	7.70	383.25	10058.50	26.245
-805	0.00	14.53	YY	1	SLV(E)	7.70	7.70	1461.19	10058.50	6.884
-805	0.00	14.53	YY	1	SLV(E)	7.70	7.70	-1967.84	-10058.50	5.111
-805	0.00	14.53	YY	3	SLV(E)	7.70	7.70	-608.39	-10058.50	16.533
-805	0.00	14.53	YY	3	SLV(E)	7.70	7.70	101.73	10058.50	98.870
-805	0.00	14.53	YY	5	SLV(E)	7.70	7.70	3399.89	10058.50	2.958
-805	0.00	14.53	YY	5	SLV(E)	7.70	7.70	-3906.54	-10058.50	2.575
-805	0.00	14.53	YY	7	SLV(E)	7.70	7.70	2992.05	10058.50	3.362
-805	0.00	14.53	YY	7	SLV(E)	7.70	7.70	-3498.71	-10058.50	2.875
-727	0.00	13.04	YY	1	SLV(E)	7.70	7.70	-6736.48	-10058.50	1.493
-727	0.00	13.04	YY	1	SLV(E)	7.70	7.70	-9504.75	-10058.50	1.058
-727	0.00	13.04	YY	3	SLV(E)	7.70	7.70	-7880.86	-10058.50	1.276
-727	0.00	13.04	YY	3	SLV(E)	7.70	7.70	-8360.37	-10058.50	1.203
-727	0.00	13.04	YY	5	SLV(E)	7.70	7.70	-5969.74	-10058.50	1.685
-727	0.00	13.04	YY	5	SLV(E)	7.70	7.70	-10271.50	-10058.50	0.979
-727	0.00	13.04	YY	7	SLV(E)	7.70	7.70	-6456.90	-10058.50	1.558
-727	0.00	13.04	YY	7	SLV(E)	7.70	7.70	-9784.33	-10058.50	1.028
-659	7.09	11.56	YY	1	SLV(E)	7.70	11.47	-3457.23	-10052.30	2.908
-659	7.09	11.56	YY	1	SLV(E)	7.70	11.47	-3952.57	-10052.30	2.543
-659	7.09	11.56	YY	3	SLV(E)	7.70	11.47	-3710.22	-10052.30	2.709
-659	7.09	11.56	YY	3	SLV(E)	7.70	11.47	-3699.58	-10052.30	2.717
-659	7.09	11.56	YY	5	SLV(E)	7.70	11.47	-3246.90	-10052.30	3.096
-659	7.09	11.56	YY	5	SLV(E)	7.70	11.47	-4162.90	-10052.30	2.415
-659	7.09	11.56	YY	7	SLV(E)	7.70	11.47	-3319.61	-10052.30	3.028
-659	7.09	11.56	YY	7	SLV(E)	7.70	11.47	-4090.19	-10052.30	2.458
-620	7.09	10.81	YY	1	SLV(E)	7.70	11.47	3051.35	14781.00	4.844
-620	7.09	10.81	YY	1	SLV(E)	7.70	11.47	1458.73	14781.00	10.133
-620	7.09	10.81	YY	3	SLV(E)	7.70	11.47	2160.74	14781.00	6.841
-620	7.09	10.81	YY	3	SLV(E)	7.70	11.47	2349.35	14781.00	6.292
-620	7.09	10.81	YY	5	SLV(E)	7.70	11.47	3844.70	14781.00	3.845

-620	7.09	10.81	YY	5	SLV(E)	7.70	11.47	665.38	14781.00	22.214
-620	7.09	10.81	YY	7	SLV(E)	7.70	11.47	3634.10	14781.00	4.067
-620	7.09	10.81	YY	7	SLV(E)	7.70	11.47	875.99	14781.00	16.874
-459	0.00	7.93	YY	1	SLV(E)	7.70	11.47	-3856.48	-10052.30	2.607
-459	0.00	7.93	YY	1	SLV(E)	7.70	11.47	-5534.04	-10052.30	1.816
-459	0.00	7.93	YY	3	SLV(E)	7.70	11.47	-4128.05	-10052.30	2.435
-459	0.00	7.93	YY	3	SLV(E)	7.70	11.47	-5262.47	-10052.30	1.910
-459	0.00	7.93	YY	5	SLV(E)	7.70	11.47	-4031.75	-10052.30	2.493
-459	0.00	7.93	YY	5	SLV(E)	7.70	11.47	-5358.77	-10052.30	1.876
-459	0.00	7.93	YY	7	SLV(E)	7.70	11.47	-4453.54	-10052.30	2.257
-459	0.00	7.93	YY	7	SLV(E)	7.70	11.47	-4936.98	-10052.30	2.036
-610	0.00	10.81	YY	1	SLV(E)	7.70	11.47	3748.79	14781.00	3.943
-610	0.00	10.81	YY	1	SLV(E)	7.70	11.47	1465.57	14781.00	10.085
-610	0.00	10.81	YY	3	SLV(E)	7.70	11.47	2441.03	14781.00	6.055
-610	0.00	10.81	YY	3	SLV(E)	7.70	11.47	2773.33	14781.00	5.330
-610	0.00	10.81	YY	5	SLV(E)	7.70	11.47	4933.11	14781.00	2.996
-610	0.00	10.81	YY	5	SLV(E)	7.70	11.47	281.25	14781.00	52.554
-610	0.00	10.81	YY	7	SLV(E)	7.70	11.47	4640.47	14781.00	3.185
-610	0.00	10.81	YY	7	SLV(E)	7.70	11.47	573.89	14781.00	25.756
7	7.09	5.07	YY	1	SLV(E)	7.70	11.47	8856.47	14781.00	1.669
7	7.09	5.07	YY	1	SLV(E)	7.70	11.47	5523.46	14781.00	2.676
7	7.09	5.07	YY	3	SLV(E)	7.70	11.47	6681.93	14781.00	2.212
7	7.09	5.07	YY	3	SLV(E)	7.70	11.47	7698.00	14781.00	1.920
7	7.09	5.07	YY	5	SLV(E)	7.70	11.47	10988.00	14781.00	1.345
7	7.09	5.07	YY	5	SLV(E)	7.70	11.47	3391.96	14781.00	4.358
7	7.09	5.07	YY	7	SLV(E)	7.70	11.47	10640.40	14781.00	1.389
7	7.09	5.07	YY	7	SLV(E)	7.70	11.47	3739.50	14781.00	3.953
6	0.00	5.07	YY	1	SLV(E)	7.70	11.47	10407.00	14781.00	1.420
6	0.00	5.07	YY	1	SLV(E)	7.70	11.47	6124.72	14781.00	2.413
6	0.00	5.07	YY	3	SLV(E)	7.70	11.47	7286.04	14781.00	2.029
6	0.00	5.07	YY	3	SLV(E)	7.70	11.47	9245.66	14781.00	1.599
6	0.00	5.07	YY	5	SLV(E)	7.70	11.47	13641.60	14781.00	1.084
6	0.00	5.07	YY	5	SLV(E)	7.70	11.47	2890.08	14781.00	5.114
6	0.00	5.07	YY	7	SLV(E)	7.70	11.47	13293.20	14781.00	1.112
6	0.00	5.07	YY	7	SLV(E)	7.70	11.47	3238.47	14781.00	4.564
8	13.69	5.07	YY	1	SLV(E)	7.70	11.47	8481.15	14781.00	1.743
8	13.69	5.07	YY	1	SLV(E)	7.70	11.47	5159.12	14781.00	2.865
8	13.69	5.07	YY	3	SLV(E)	7.70	11.47	6331.76	14781.00	2.334
8	13.69	5.07	YY	3	SLV(E)	7.70	11.47	7308.51	14781.00	2.022
8	13.69	5.07	YY	5	SLV(E)	7.70	11.47	10578.40	14781.00	1.397
8	13.69	5.07	YY	5	SLV(E)	7.70	11.47	3061.92	14781.00	4.827
8	13.69	5.07	YY	7	SLV(E)	7.70	11.47	10226.60	14781.00	1.445
8	13.69	5.07	YY	7	SLV(E)	7.70	11.47	3413.71	14781.00	4.330
-629	13.69	10.81	YY	1	SLV(E)	7.70	11.47	2866.81	14781.00	5.156
-629	13.69	10.81	YY	1	SLV(E)	7.70	11.47	1284.75	14781.00	11.505
-629	13.69	10.81	YY	3	SLV(E)	7.70	11.47	1987.36	14781.00	7.438
-629	13.69	10.81	YY	3	SLV(E)	7.70	11.47	2164.20	14781.00	6.830
-629	13.69	10.81	YY	5	SLV(E)	7.70	11.47	3646.92	14781.00	4.053
-629	13.69	10.81	YY	5	SLV(E)	7.70	11.47	504.64	14781.00	29.290
-629	13.69	10.81	YY	7	SLV(E)	7.70	11.47	3436.14	14781.00	4.302
-629	13.69	10.81	YY	7	SLV(E)	7.70	11.47	715.42	14781.00	20.660
-668	13.69	11.56	YY	1	SLV(E)	7.70	11.47	-3413.96	-10052.30	2.944
-668	13.69	11.56	YY	1	SLV(E)	7.70	11.47	-3882.95	-10052.30	2.589
-668	13.69	11.56	YY	3	SLV(E)	7.70	11.47	-3653.22	-10052.30	2.752
-668	13.69	11.56	YY	3	SLV(E)	7.70	11.47	-3643.69	-10052.30	2.759
-668	13.69	11.56	YY	5	SLV(E)	7.70	11.47	-3215.23	-10052.30	3.126
-668	13.69	11.56	YY	5	SLV(E)	7.70	11.47	-4081.68	-10052.30	2.463
-668	13.69	11.56	YY	7	SLV(E)	7.70	11.47	-3284.15	-10052.30	3.061
-668	13.69	11.56	YY	7	SLV(E)	7.70	11.47	-4012.76	-10052.30	2.505
9	20.29	5.07	YY	1	SLV(E)	7.70	11.47	8856.52	14781.00	1.669
9	20.29	5.07	YY	1	SLV(E)	7.70	11.47	5523.48	14781.00	2.676
9	20.29	5.07	YY	3	SLV(E)	7.70	11.47	6681.95	14781.00	2.212
9	20.29	5.07	YY	3	SLV(E)	7.70	11.47	7698.05	14781.00	1.920
9	20.29	5.07	YY	5	SLV(E)	7.70	11.47	10988.10	14781.00	1.345
9	20.29	5.07	YY	5	SLV(E)	7.70	11.47	3391.94	14781.00	4.358
9	20.29	5.07	YY	7	SLV(E)	7.70	11.47	10640.50	14781.00	1.389
9	20.29	5.07	YY	7	SLV(E)	7.70	11.47	3739.48	14781.00	3.953
-638	20.29	10.81	YY	1	SLV(E)	7.70	11.47	3051.37	14781.00	4.844
-638	20.29	10.81	YY	1	SLV(E)	7.70	11.47	1458.73	14781.00	10.133
-638	20.29	10.81	YY	3	SLV(E)	7.70	11.47	2160.74	14781.00	6.841
-638	20.29	10.81	YY	3	SLV(E)	7.70	11.47	2349.36	14781.00	6.292
-638	20.29	10.81	YY	5	SLV(E)	7.70	11.47	3844.74	14781.00	3.844
-638	20.29	10.81	YY	5	SLV(E)	7.70	11.47	665.37	14781.00	22.215
-638	20.29	10.81	YY	7	SLV(E)	7.70	11.47	3634.13	14781.00	4.067
-638	20.29	10.81	YY	7	SLV(E)	7.70	11.47	875.97	14781.00	16.874
-677	20.29	11.56	YY	1	SLV(E)	7.70	11.47	-3457.24	-10052.30	2.908
-677	20.29	11.56	YY	1	SLV(E)	7.70	11.47	-3952.58	-10052.30	2.543
-677	20.29	11.56	YY	3	SLV(E)	7.70	11.47	-3710.23	-10052.30	2.709
-677	20.29	11.56	YY	3	SLV(E)	7.70	11.47	-3699.59	-10052.30	2.717
-677	20.29	11.56	YY	5	SLV(E)	7.70	11.47	-3246.91	-10052.30	3.096
-677	20.29	11.56	YY	5	SLV(E)	7.70	11.47	-4162.91	-10052.30	2.415
-677	20.29	11.56	YY	7	SLV(E)	7.70	11.47	-3319.61	-10052.30	3.028
-677	20.29	11.56	YY	7	SLV(E)	7.70	11.47	-4090.20	-10052.30	2.458
10	27.38	5.07	YY	1	SLV(E)	7.70	11.47	10407.00	14781.00	1.420
10	27.38	5.07	YY	1	SLV(E)	7.70	11.47	6124.72	14781.00	2.413
10	27.38	5.07	YY	3	SLV(E)	7.70	11.47	7286.04	14781.00	2.029

10	27.38	5.07	YY	3	SLV(E)	7.70	11.47	9245.67	14781.00	1.599
10	27.38	5.07	YY	5	SLV(E)	7.70	11.47	13641.60	14781.00	1.084
10	27.38	5.07	YY	5	SLV(E)	7.70	11.47	2890.07	14781.00	5.114
10	27.38	5.07	YY	7	SLV(E)	7.70	11.47	13293.20	14781.00	1.112
10	27.38	5.07	YY	7	SLV(E)	7.70	11.47	3238.47	14781.00	4.564
-648	27.38	10.81	YY	1	SLV(E)	7.70	11.47	3748.79	14781.00	3.943
-648	27.38	10.81	YY	1	SLV(E)	7.70	11.47	1465.57	14781.00	10.085
-648	27.38	10.81	YY	3	SLV(E)	7.70	11.47	2441.03	14781.00	6.055
-648	27.38	10.81	YY	3	SLV(E)	7.70	11.47	2773.33	14781.00	5.330
-648	27.38	10.81	YY	5	SLV(E)	7.70	11.47	4933.11	14781.00	2.996
-648	27.38	10.81	YY	5	SLV(E)	7.70	11.47	281.25	14781.00	52.554
-648	27.38	10.81	YY	7	SLV(E)	7.70	11.47	4640.47	14781.00	3.185
-648	27.38	10.81	YY	7	SLV(E)	7.70	11.47	573.89	14781.00	25.756
-497	27.38	7.93	YY	1	SLV(E)	7.70	11.47	-3856.48	-10052.30	2.607
-497	27.38	7.93	YY	1	SLV(E)	7.70	11.47	-5534.04	-10052.30	1.816
-497	27.38	7.93	YY	3	SLV(E)	7.70	11.47	-4128.05	-10052.30	2.435
-497	27.38	7.93	YY	3	SLV(E)	7.70	11.47	-5262.47	-10052.30	1.910
-497	27.38	7.93	YY	5	SLV(E)	7.70	11.47	-4031.75	-10052.30	2.493
-497	27.38	7.93	YY	5	SLV(E)	7.70	11.47	-5358.77	-10052.30	1.876
-497	27.38	7.93	YY	7	SLV(E)	7.70	11.47	-4453.54	-10052.30	2.257
-497	27.38	7.93	YY	7	SLV(E)	7.70	11.47	-4936.98	-10052.30	2.036

Stato limite ultimo - Verifiche a taglio

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	AfE St. <cmq/m>	Vsdu <daN>	ctgθ	VRcd <daN>	VRsd <daN>	Vrdu <daN>	Sic.
-887	6.38	15.47	XX	1	SLV(E)	7.70	7.70		31563.50				16100.40	0.510
-887	6.38	15.47	XX	1	SLV(E)	7.70	7.70		31563.50				16100.40	0.510
-887	6.38	15.47	XX	3	SLV(E)	7.70	7.70		25411.40				16100.40	0.634
-887	6.38	15.47	XX	3	SLV(E)	7.70	7.70		25411.40				16100.40	0.634
-887	6.38	15.47	XX	5	SLV(E)	7.70	7.70		39008.30				16100.40	0.413
-887	6.38	15.47	XX	5	SLV(E)	7.70	7.70		39008.30				16100.40	0.413
-887	6.38	15.47	XX	7	SLV(E)	7.70	7.70		37162.70				16100.40	0.433
-887	6.38	15.47	XX	7	SLV(E)	7.70	7.70		37162.70				16100.40	0.433
-887	6.38	15.47	XX	9	SLU	7.70	7.70		35598.70				16100.40	0.452
-805	0.00	14.53	YY	1	SLV(E)	7.70	7.70		23660.30				16100.40	0.680
-805	0.00	14.53	YY	1	SLV(E)	7.70	7.70		23660.30				16100.40	0.680
-805	0.00	14.53	YY	3	SLV(E)	7.70	7.70		22906.70				16100.40	0.703
-805	0.00	14.53	YY	3	SLV(E)	7.70	7.70		22906.70				16100.40	0.703
-805	0.00	14.53	YY	5	SLV(E)	7.70	7.70		21341.10				16100.40	0.754
-805	0.00	14.53	YY	5	SLV(E)	7.70	7.70		21341.10				16100.40	0.754
-805	0.00	14.53	YY	7	SLV(E)	7.70	7.70		18829.10				16100.40	0.855
-805	0.00	14.53	YY	7	SLV(E)	7.70	7.70		18829.10				16100.40	0.855
-805	0.00	14.53	YY	9	SLU	7.70	7.70		26205.60				16100.40	0.614
-620	7.09	10.81	YY	1	SLV(E)	7.70	11.47		14973.10				16125.20	1.077
-620	7.09	10.81	YY	1	SLV(E)	7.70	11.47		14973.10				16125.20	1.077
-620	7.09	10.81	YY	3	SLV(E)	7.70	11.47		14978.50				16125.20	1.077
-620	7.09	10.81	YY	3	SLV(E)	7.70	11.47		14978.50				16125.20	1.077
-620	7.09	10.81	YY	5	SLV(E)	7.70	11.47		14987.30				16125.20	1.076
-620	7.09	10.81	YY	5	SLV(E)	7.70	11.47		14987.30				16125.20	1.076
-620	7.09	10.81	YY	7	SLV(E)	7.70	11.47		14988.90				16125.20	1.076
-620	7.09	10.81	YY	7	SLV(E)	7.70	11.47		14988.90				16125.20	1.076
-620	7.09	10.81	YY	9	SLU	7.70	11.47		22275.70				16125.20	0.724
-610	0.00	10.81	YY	1	SLV(E)	7.70	11.47		22772.60				16125.20	0.708
-610	0.00	10.81	YY	1	SLV(E)	7.70	11.47		22772.60				16125.20	0.708
-610	0.00	10.81	YY	3	SLV(E)	7.70	11.47		20455.90				16125.20	0.788
-610	0.00	10.81	YY	3	SLV(E)	7.70	11.47		20455.90				16125.20	0.788
-610	0.00	10.81	YY	5	SLV(E)	7.70	11.47		23314.90				16125.20	0.692
-610	0.00	10.81	YY	5	SLV(E)	7.70	11.47		23314.90				16125.20	0.692
-610	0.00	10.81	YY	7	SLV(E)	7.70	11.47		21463.00				16125.20	0.751
-610	0.00	10.81	YY	7	SLV(E)	7.70	11.47		21463.00				16125.20	0.751
-610	0.00	10.81	YY	9	SLU	7.70	11.47		27065.20				16125.20	0.596
-629	13.69	10.81	YY	1	SLV(E)	7.70	11.47		16961.60				16125.20	0.951
-629	13.69	10.81	YY	1	SLV(E)	7.70	11.47		16961.60				16125.20	0.951
-629	13.69	10.81	YY	3	SLV(E)	7.70	11.47		14844.70				16125.20	1.086
-629	13.69	10.81	YY	3	SLV(E)	7.70	11.47		14844.70				16125.20	1.086
-629	13.69	10.81	YY	5	SLV(E)	7.70	11.47		18293.80				16125.20	0.881
-629	13.69	10.81	YY	5	SLV(E)	7.70	11.47		18293.80				16125.20	0.881
-629	13.69	10.81	YY	7	SLV(E)	7.70	11.47		17319.00				16125.20	0.931
-629	13.69	10.81	YY	7	SLV(E)	7.70	11.47		17319.00				16125.20	0.931
-629	13.69	10.81	YY	9	SLU	7.70	11.47		21241.40				16125.20	0.759
-638	20.29	10.81	YY	1	SLV(E)	7.70	11.47		14973.30				16125.20	1.077
-638	20.29	10.81	YY	1	SLV(E)	7.70	11.47		14973.30				16125.20	1.077
-638	20.29	10.81	YY	3	SLV(E)	7.70	11.47		14978.60				16125.20	1.077
-638	20.29	10.81	YY	3	SLV(E)	7.70	11.47		14978.60				16125.20	1.077
-638	20.29	10.81	YY	5	SLV(E)	7.70	11.47		14987.40				16125.20	1.076
-638	20.29	10.81	YY	5	SLV(E)	7.70	11.47		14987.40				16125.20	1.076
-638	20.29	10.81	YY	7	SLV(E)	7.70	11.47		14989.00				16125.20	1.076
-638	20.29	10.81	YY	7	SLV(E)	7.70	11.47		14989.00				16125.20	1.076
-638	20.29	10.81	YY	9	SLU	7.70	11.47		22275.90				16125.20	0.724
-648	27.38	10.81	YY	1	SLV(E)	7.70	11.47		22772.60				16125.20	0.708
-648	27.38	10.81	YY	1	SLV(E)	7.70	11.47		22772.60				16125.20	0.708
-648	27.38	10.81	YY	3	SLV(E)	7.70	11.47		20455.90				16125.20	0.788
-648	27.38	10.81	YY	3	SLV(E)	7.70	11.47		20455.90				16125.20	0.788
-648	27.38	10.81	YY	5	SLV(E)	7.70	11.47		23314.90				16125.20	0.692
-648	27.38	10.81	YY	5	SLV(E)	7.70	11.47		23314.90				16125.20	0.692

-648	27.38	10.81	YY	7	SLV(E)	7.70	11.47		21463.00				16125.20	0.751
-648	27.38	10.81	YY	7	SLV(E)	7.70	11.47		21463.00				16125.20	0.751
-648	27.38	10.81	YY	9	SLU	7.70	11.47		27065.20				16125.20	0.596

Stato limite d'esercizio - Verifiche tensionali

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	Mom <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
-906	20.29	15.47	XX	10	SLE R	7.70	7.70	13251.50	91.88	5171.81
-906	20.29	15.47	XX	12	SLE Q	7.70	7.70	11887.10	82.42	4639.29
-882	2.84	15.47	XX	10	SLE R	7.70	7.70	-10329.90	71.62	4031.54
-882	2.84	15.47	XX	12	SLE Q	7.70	7.70	-9330.30	64.69	3641.43
16	0.00	15.27	YY	10	SLE R	7.70	7.70	2664.41	18.47	1039.87
16	0.00	15.27	YY	12	SLE Q	7.70	7.70	2521.45	17.48	984.07
-727	0.00	13.04	YY	10	SLE R	7.70	7.70	-8211.63	56.94	3204.84
-727	0.00	13.04	YY	12	SLE Q	7.70	7.70	-7382.38	51.19	2881.20
-659	7.09	11.56	YY	10	SLE R	7.70	11.47	-3698.76	24.83	1444.44
-659	7.09	11.56	YY	12	SLE Q	7.70	11.47	-3368.09	22.61	1315.30
-459	0.00	7.93	YY	10	SLE R	7.70	11.47	-4807.54	32.27	1877.44
-459	0.00	7.93	YY	12	SLE Q	7.70	11.47	-4268.42	28.65	1666.90
7	7.09	5.07	YY	10	SLE R	7.70	11.47	7677.42	45.36	2036.84
7	7.09	5.07	YY	12	SLE Q	7.70	11.47	6536.33	38.62	1734.11
6	0.00	5.07	YY	10	SLE R	7.70	11.47	8634.06	51.01	2290.64
6	0.00	5.07	YY	12	SLE Q	7.70	11.47	7514.41	44.40	1993.60
8	13.69	5.07	YY	10	SLE R	7.70	11.47	7284.78	43.04	1932.68
8	13.69	5.07	YY	12	SLE Q	7.70	11.47	6200.12	36.63	1644.91
-668	13.69	11.56	YY	10	SLE R	7.70	11.47	-3642.88	24.45	1422.62
-668	13.69	11.56	YY	12	SLE Q	7.70	11.47	-3316.78	22.27	1295.26
9	20.29	5.07	YY	10	SLE R	7.70	11.47	7677.45	45.36	2036.85
9	20.29	5.07	YY	12	SLE Q	7.70	11.47	6536.36	38.62	1734.12
-677	20.29	11.56	YY	10	SLE R	7.70	11.47	-3698.77	24.83	1444.44
-677	20.29	11.56	YY	12	SLE Q	7.70	11.47	-3368.10	22.61	1315.31
10	27.38	5.07	YY	10	SLE R	7.70	11.47	8634.06	51.01	2290.64
10	27.38	5.07	YY	12	SLE Q	7.70	11.47	7514.41	44.40	1993.60
-497	27.38	7.93	YY	10	SLE R	7.70	11.47	-4807.54	32.27	1877.44
-497	27.38	7.93	YY	12	SLE Q	7.70	11.47	-4268.42	28.65	1666.90

Stato limite d'esercizio - Verifiche a fessurazione

Nodo	X <m>	Y <m>	DV	CC	TCC	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>
-906	20.29	15.47	XX	12	SLE Q	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	4639.29	1.60	0.66
-906	20.29	15.47	XX	11	SLE F	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	4759.07	1.39	0.57
-882	2.84	15.47	XX	12	SLE Q	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	3641.43	1.11	0.46
-882	2.84	15.47	XX	11	SLE F	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	3728.39	1.09	0.45
16	0.00	15.27	YY	12	SLE Q	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	984.07	0.29	0.12
16	0.00	15.27	YY	11	SLE F	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	995.58	0.29	0.12
-727	0.00	13.04	YY	12	SLE Q	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	2881.20	0.84	0.35
-727	0.00	13.04	YY	11	SLE F	33.00	200.00	0.50	14.00	243.19	9.24	1000.00	2953.62	0.86	0.36
-659	7.09	11.56	YY	12	SLE Q	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1315.30	0.38	0.16
-659	7.09	11.56	YY	11	SLE F	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1344.49	0.39	0.16
-459	0.00	7.93	YY	12	SLE Q	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1666.90	0.49	0.20
-459	0.00	7.93	YY	11	SLE F	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1713.57	0.50	0.21
7	7.09	5.07	YY	12	SLE Q	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	1734.11	0.51	0.15
7	7.09	5.07	YY	11	SLE F	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	1801.33	0.52	0.15
6	0.00	5.07	YY	12	SLE Q	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	1993.60	0.58	0.17
6	0.00	5.07	YY	11	SLE F	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	2059.58	0.60	0.17
8	13.69	5.07	YY	12	SLE Q	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	1644.91	0.48	0.14
8	13.69	5.07	YY	11	SLE F	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	1708.80	0.50	0.14
-668	13.69	11.56	YY	12	SLE Q	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1295.26	0.38	0.16
-668	13.69	11.56	YY	11	SLE F	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1324.08	0.39	0.16
9	20.29	5.07	YY	12	SLE Q	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	1734.12	0.51	0.15
9	20.29	5.07	YY	11	SLE F	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	1801.34	0.52	0.15
-677	20.29	11.56	YY	12	SLE Q	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1315.31	0.38	0.16
-677	20.29	11.56	YY	11	SLE F	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1344.49	0.39	0.16
10	27.38	5.07	YY	12	SLE Q	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	1993.60	0.58	0.17
10	27.38	5.07	YY	11	SLE F	33.36	120.00	0.50	13.27	170.01	12.85	1000.00	2059.58	0.60	0.17
-497	27.38	7.93	YY	12	SLE Q	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1666.90	0.49	0.20
-497	27.38	7.93	YY	11	SLE F	33.00	200.00	0.50	14.00	244.65	9.24	1000.00	1713.57	0.50	0.21

Stato limite ultimo - Verifiche a punzonamento

Pil	CC	TCC	d <m>	My <daNm>	Mz <daNm>	u_0 <m>	$V_{Ed,red}$ (u_0) <daN>	β (u_0)	ν	v_{Ed} (u_0) <daN/mq>	$V_{Rd,max}$ <daN/mq>	a <m>	u_1 <m>	$V_{Ed,red}$ (u_1) <daN>	β (u_1)	ρ_l	v_{Ed} (u_1) <daN/mq>	$V_{Rd,c}$ <daN/mq>	A_{sw} <cmq>	$V_{Rd,cs}$ <daN/mq>	u
1	1	SLV	0.36	15846.20	8936.23	0.70	20625.30	1.83	0.53	149724.00	457939.00	0.47	1.43	16485.70	2.41	2.14	76978.70	68805.10	18.10	136354.00	
1	1	SLV	0.36	15846.20	3890.64	0.70	20625.30	1.74	0.53	142114.00	457939.00	0.47	1.43	16485.70	2.25	2.14	71775.90	68805.10	18.10	136354.00	
1	1	SLV	0.36	5136.18	8936.23	0.70	20625.30	1.48	0.53	121356.00	457939.00	0.50	1.49	16167.30	1.80	2.14	54332.30	63890.40	18.10	129460.00	
1	1	SLV	0.36	5136.18	3890.64	0.70	20625.30	1.30	0.53	106048.00	457939.00	0.58	1.60	15530.40	1.46	2.14	39389.20	55904.10	18.10	117731.00	
1	1	SLV	0.36	15846.20	8936.23	0.70	29517.80	1.58	0.53	185012.00	457939.00	0.58	1.60	24422.90	1.82	2.14	77256.00	55904.10	18.10	117731.00	
1	1	SLV	0.36	15846.20	3890.64	0.70	29517.80	1.51	0.53	177401.00	457939.00	0.61	1.66	24104.50	1.71	2.14	69004.60	52615.70	18.10	112687.00	
1	1	SLV	0.36	5136.18	8936.23	0.70	29517.80	1.34	0.53	156644.00	457939.00	0.65	1.71	23786.10	1.45	2.14	56005.40	49692.60	18.10	108087.00	
1	1	SLV	0.36	5136.18	3890.64	0.70	29517.80	1.21	0.53	141336.00	457939.00	0.72	1.83	23149.20	1.26	2.14	44450.70	44723.30	18.10	99990.80	
1	3	SLV	0.36	14358.00	6372.91	0.70	23917.20	1.61	0.53	153277.00	457939.00	0.54	1.55	19140.80	1.95	2.14	66921.90	59631.10	18.10	123291.00	
1	3	SLV	0.36	14358.00	6453.95	0.70	23917.20	1.62	0.53	153411.00	457939.00	0.54	1.55	19140.80	1.95	2.14	66998.10	59631.10	18.10	123291.00	
1	3	SLV	0.36	6624.39	6372.91	0.70	23917.20	1.37	0.53	129651.00	457939.00	0.58	1.60	18822.40	1.55	2.14	50544.00	55904.10	18.10	117731.00	
1	3	SLV	0.36	6624.39	6453.95	0.70	23917.20	1.37	0.53	129875.00	457939.00	0.58	1.60	18822.40	1.55	2.14	50660.90	55904.10	18.10	117731.00	
1	3	SLV	0.36	14358.00	6372.91	0.70	26225.80	1.56	0.53	162438.00	457939.00	0.58	1.60	21131.00	1.82	2.14	66633.20	55904.10	18.10	117731.00	
1	3	SLV	0.36	14358.00	6453.95	0.70	26225.80	1.56	0.53	162572.00	457939.00	0.58	1.60	21131.00	1.82	2.14	66703.20	55904.10	18.10	117731.00	
1	3	SLV	0.36	6624.39	6372.91	0.70	26225.80	1.33	0.53	138812.00	457939.00	0.61	1.66	20812.60	1.48	2.14	51413.40	52615.70	18.10	112687.00	

1	3	SLV	0.36	6624.39	6453.95	0.70	26225.80	1.34	0.53	139036.00	457939.00	0.61	1.66	20812.60	1.48	2.14	51521.20	52615.70	18.10	112687.00
1	5	SLV	0.36	14354.80	11058.00	0.70	18744.90	1.92	0.53	142474.00	457939.00	0.43	1.38	14923.80	2.65	2.14	79818.40	74538.90	18.10	144126.00
1	5	SLV	0.36	14354.80	1768.90	0.70	18744.90	1.72	0.53	127681.00	457939.00	0.47	1.43	14605.30	2.24	2.14	63493.80	68805.10	18.10	136354.00
1	5	SLV	0.36	6627.56	11058.00	0.70	18744.90	1.66	0.53	123762.00	457939.00	0.47	1.43	14605.30	2.17	2.14	61376.00	68805.10	18.10	136354.00
1	5	SLV	0.36	6627.56	1768.90	0.70	18744.90	1.34	0.53	99734.20	457939.00	0.54	1.55	13968.50	1.56	2.14	39208.80	59631.10	18.10	123291.00
1	5	SLV	0.36	14354.80	11058.00	0.70	31398.20	1.55	0.53	192685.00	457939.00	0.61	1.66	25984.90	1.75	2.14	75944.70	52615.70	18.10	112687.00
1	5	SLV	0.36	14354.80	1768.90	0.70	31398.20	1.43	0.53	177893.00	457939.00	0.65	1.71	25666.50	1.57	2.14	65072.70	49692.60	18.10	108087.00
1	5	SLV	0.36	6627.56	11058.00	0.70	31398.20	1.40	0.53	173974.00	457939.00	0.65	1.71	25666.50	1.53	2.14	63415.10	49692.60	18.10	108087.00
1	5	SLV	0.36	6627.56	1768.90	0.70	31398.20	1.20	0.53	149946.00	457939.00	0.72	1.83	25029.60	1.26	2.14	47748.10	44723.30	18.10	99990.80
1	7	SLV	0.36	11588.30	10313.30	0.70	20425.10	1.72	0.53	139561.00	457939.00	0.47	1.43	16285.50	2.23	2.14	70532.10	68805.10	18.10	136354.00
1	7	SLV	0.36	11588.30	2513.58	0.70	20425.10	1.54	0.53	124820.00	457939.00	0.50	1.49	15967.10	1.89	2.14	56262.60	63890.40	18.10	129460.00
1	7	SLV	0.36	9394.11	10313.30	0.70	20425.10	1.65	0.53	133959.00	457939.00	0.47	1.43	16285.50	2.12	2.14	66872.50	68805.10	18.10	136354.00
1	7	SLV	0.36	9394.11	2513.58	0.70	20425.10	1.44	0.53	116990.00	457939.00	0.54	1.55	15648.60	1.71	2.14	48120.80	59631.10	18.10	123291.00
1	7	SLV	0.36	11588.30	10313.30	0.70	29718.00	1.50	0.53	176438.00	457939.00	0.61	1.66	24304.70	1.68	2.14	68582.10	52615.70	18.10	112687.00
1	7	SLV	0.36	11588.30	2513.58	0.70	29718.00	1.37	0.53	161697.00	457939.00	0.65	1.71	23986.30	1.50	2.14	58152.60	49692.60	18.10	108087.00
1	7	SLV	0.36	9394.11	10313.30	0.70	29718.00	1.45	0.53	170836.00	457939.00	0.61	1.66	24304.70	1.62	2.14	65931.20	52615.70	18.10	112687.00
1	7	SLV	0.36	9394.11	2513.58	0.70	29718.00	1.30	0.53	153867.00	457939.00	0.68	1.77	23667.90	1.40	2.14	51866.60	47077.20	18.10	103871.00
1	9	SLU	0.36	14918.60	8763.88	0.70	35423.70	1.46	0.53	205181.00	457939.00	0.58	1.60	28115.00	1.68	2.14	81981.90	55904.10	18.10	117731.00
2	1	SLV	0.36	9157.54	11441.10	1.40	42881.80	1.33	0.53	112964.00	457939.00	0.68	3.54	34277.30	1.43	2.14	38334.10	47077.20	15.83	65304.40
2	1	SLV	0.36	9157.54	6293.57	1.40	42881.80	1.24	0.53	105902.00	457939.00	0.72	3.66	33824.40	1.31	2.14	33676.30	44723.30	15.83	62613.60
2	1	SLV	0.36	10314.90	11441.10	1.40	42881.80	1.34	0.53	114302.00	457939.00	0.68	3.54	34277.30	1.45	2.14	38882.40	47077.20	15.83	65304.40
2	1	SLV	0.36	10314.90	6293.57	1.40	42881.80	1.27	0.53	107662.00	457939.00	0.72	3.66	33824.40	1.34	2.14	34350.30	44723.30	15.83	62613.60
2	1	SLV	0.36	9157.54	11441.10	1.40	47659.10	1.29	0.53	122443.00	457939.00	0.72	3.66	38601.60	1.36	2.14	40011.20	44723.30	15.83	62613.60
2	1	SLV	0.36	9157.54	6293.57	1.40	47659.10	1.22	0.53	115381.00	457939.00	0.72	3.66	38601.60	1.27	2.14	37306.50	44723.30	15.83	62613.60
2	1	SLV	0.36	10314.90	11441.10	1.40	47659.10	1.31	0.53	123781.00	457939.00	0.72	3.66	38601.60	1.38	2.14	40523.50	44723.30	15.83	62613.60
2	1	SLV	0.36	10314.90	6293.57	1.40	47659.10	1.24	0.53	117141.00	457939.00	0.72	3.66	38601.60	1.29	2.14	37980.50	44723.30	15.83	62613.60
2	3	SLV	0.36	9137.47	6611.00	1.40	46499.90	1.23	0.53	113419.00	457939.00	0.72	3.66	37442.50	1.28	2.14	36555.10	44723.30	15.83	62613.60
2	3	SLV	0.36	9137.47	11123.70	1.40	46499.90	1.30	0.53	119632.00	457939.00	0.72	3.66	37442.50	1.37	2.14	38934.70	44723.30	15.83	62613.60
2	3	SLV	0.36	10294.80	6611.00	1.40	46499.90	1.25	0.53	115149.00	457939.00	0.72	3.66	37442.50	1.31	2.14	37217.90	44723.30	15.83	62613.60
2	3	SLV	0.36	10294.80	11123.70	1.40	46499.90	1.31	0.53	120991.00	457939.00	0.72	3.66	37442.50	1.39	2.14	39455.00	44723.30	15.83	62613.60
2	3	SLV	0.36	9137.47	6611.00	1.40	44041.00	1.24	0.53	108540.00	457939.00	0.72	3.66	34983.60	1.30	2.14	34686.60	44723.30	15.83	62613.60
2	3	SLV	0.36	9137.47	11123.70	1.40	44041.00	1.31	0.53	114753.00	457939.00	0.68	3.54	35436.40	1.40	2.14	39032.70	47077.20	15.83	65304.40
2	3	SLV	0.36	10294.80	6611.00	1.40	44041.00	1.26	0.53	110271.00	457939.00	0.72	3.66	34983.60	1.33	2.14	35349.30	44723.30	15.83	62613.60
2	3	SLV	0.36	10294.80	11123.70	1.40	44041.00	1.33	0.53	116112.00	457939.00	0.68	3.54	35436.40	1.42	2.14	39589.60	47077.20	15.83	65304.40
2	5	SLV	0.36	2372.62	16965.10	1.40	39066.40	1.43	0.53	110730.00	457939.00	0.58	3.20	31820.50	1.62	2.14	44787.20	55904.10	15.83	75091.70
2	5	SLV	0.36	2372.62	769.56	1.40	39066.40	1.06	0.53	82129.00	457939.00	0.72	3.66	30009.00	1.08	2.14	24571.60	44723.30	15.83	62613.60
2	5	SLV	0.36	3529.99	16965.10	1.40	39066.40	1.43	0.53	111077.00	457939.00	0.58	3.20	31820.50	1.63	2.14	44963.40	55904.10	15.83	75091.70
2	5	SLV	0.36	3529.99	769.56	1.40	39066.40	1.09	0.53	84180.80	457939.00	0.72	3.66	30009.00	1.11	2.14	25357.30	44723.30	15.83	62613.60
2	5	SLV	0.36	2372.62	16965.10	1.40	51474.40	1.33	0.53	135349.00	457939.00	0.72	3.66	42417.00	1.39	2.14	44954.20	44723.30	15.83	62613.60
2	5	SLV	0.36	2372.62	769.56	1.40	51474.40	1.05	0.53	106748.00	457939.00	0.72	3.66	42417.00	1.05	2.14	34000.30	44723.30	15.83	62613.60
2	5	SLV	0.36	3529.99	16965.10	1.40	51474.40	1.33	0.53	135696.00	457939.00	0.72	3.66	42417.00	1.40	2.14	45087.00	44723.30	15.83	62613.60
2	5	SLV	0.36	3529.99	769.56	1.40	51474.40	1.07	0.53	108800.00	457939.00	0.72	3.66	42417.00	1.08	2.14	34786.10	44723.30	15.83	62613.60
2	7	SLV	0.36	3463.09	16869.90	1.40	39414.20	1.43	0.53	111562.00	457939.00	0.61	3.32	31715.40	1.60	2.14	42506.10	52615.70	15.83	71497.90
2	7	SLV	0.36	3463.09	864.79	1.40	39414.20	1.08	0.53	84795.40	457939.00	0.72	3.66	30356.80	1.11	2.14	25592.70	44723.30	15.83	62613.60
2	7	SLV	0.36	2305.72	16869.90	1.40	39414.20	1.42	0.53	111221.00	457939.00	0.61	3.32	31715.40	1.59	2.14	42345.20	52615.70	15.83	71497.90
2	7	SLV	0.36	2305.72	864.79	1.40	39414.20	1.06	0.53	82767.30	457939.00	0.72	3.66	30356.80	1.08	2.14	24816.00	44723.30	15.83	62613.60
2	7	SLV	0.36	3463.09	16869.90	1.40	51126.70	1.33	0.53	134801.00	457939.00	0.72	3.66	42069.30	1.40	2.14	44744.20	44723.30	15.83	62613.60
2	7	SLV	0.36	3463.09	864.79	1.40	51126.70	1.06	0.53	108034.00	457939.00	0.72	3.66	42069.30	1.08	2.14	34493.00	44723.30	15.83	62613.60
2	7	SLV	0.36	2305.72	16869.90	1.40	51126.70	1.33	0.53	134460.00	457939.00	0.72	3.66	42069.30	1.40	2.14	44613.60	44723.30	15.83	62613.60
2	7	SLV	0.36	2305.72	864.79	1.40	51126.70	1.04	0.53	106006.00	457939.00	0.72	3.66	42069.30	1.05	2.14	33716.20	44723.30	15.83	62613.60
2	9	SLU	0.36	870.08	12190.90	1.40	65025.80	1.18	0.53	152736.00	457939.00	0.72	3.66	51752.30	1.23	2.14	48409.20	44723.30	15.83	62613.60
3	1	SLV	0.36	9825.78	11069.30	1.40	41241.60	1.34	0.53	109915.00	457939.00	0.65	3.43	32852.20	1.47	2.14	39020.50	49692.60	15.83	68252.30
3	1	SLV	0.36	9825.78	6190.29	1.40	41241.60	1.27	0.53	103544.00	457939.00	0.68	3.54	32386.20	1.35	2.14	34311.40	47077.20	15.83	65304.40
3	1	SLV	0.36	9825.78	11069.30	1.40	41241.60	1.34	0.53	109915.00	457939.00	0.65	3.43	32852.20	1.47	2.14	39020.50	49692.60	15.83	68252.30
3	1	SLV	0.36	9825.78	6190.29	1.40	41241.60	1.27	0.53	103544.00	457939.00	0.68	3.54	32386.20	1.35	2.14	34311.40	47077.20	15.83	65304.40
3	1	SLV	0.36	9825.78	11069.30	1.40	44718.60	1.32	0.53	116813.00	457939.00	0.68	3.54	35863.10	1.41	2.14	39660.40	47077.20	15.83	65304.40
3	1	SLV	0.36	9825.78	6190.29	1.40	44718.60	1.24	0.53	110443.00	457939.00	0.72	3.66	35397.00	1.31	2.14	35214.60	44723.30	15.83	62613.60
3	1	SLV	0.36	9825.78	11069.30	1.40	44718.60	1.32	0.53	116813.00	457939.00	0.68	3.54	35863.10	1.41	2.14	39660.40	47077.20	15.83	65304.40
3	1	SLV	0.36	9825.78	6190.29	1.40	44718.60	1.24	0.53	110443.00	457939.00	0.72	3.66	35397.00	1.31	2.14	35214.60	44723.30	15.83	62613.60
3	3	SLV	0.36	9825.78	6190.30	1.40	44718.50	1.24	0.53	110443.00	457939.00	0.72	3.66	35397.00	1.31	2.14	35214.60	44723.30	15.83	62613.60
3	3	SLV	0.36	9825.78	11069.30	1.40	44718.50	1.32	0.53	116813.00	457939.00	0.68	3.54	35863.10	1.41	2.14	39660.40	47077.20	15.83	65304.40
3	3	SLV	0.36	9825.78	6190.30	1.40	44718.50	1.24	0.53	110443.00	457939.00	0.72	3.66	35397.00	1.31	2.14	35214.60	44723.30	15.83	62613.60
3	3	SLV	0.36	9825.78	11069.30	1.40	44718.50	1.32	0.53	116813.00	457939.00	0.68	3.54	35863.10	1.41	2.14	39660.40	47077.20	15.83	65304.40
3	3	SLV	0.36	9825.78	6190.30	1.40	41241.70	1.27	0.53	103544.00	457939.00	0.68	3.54	32386.20	1.35	2.14	34311.40	47077.20	15.83	65304.40
3	3	SLV	0.36	9825.78	11069.30	1.40	41241.70	1.34	0.53	109915.00	457939.00	0.65	3.43	32852.30	1.47	2.14	39020.50	49692.60	15.83	68252.30
3	3	SLV	0.36	9825.78	6190.30	1.40	41241.70	1.27	0.53	103544.00	457939.00	0.68	3.54	32386.20	1.35	2.14	34311.40	47077.20	15.83	65304.40
3	3	SLV	0.36	9825.78	11069.30	1.40	41241.70	1.34	0.53	109915.00	457939.00	0.65	3.43	32852.30	1.47	2.14	39020.50	49692.60	15.83	68252.30
3	5	SLV	0.36	2947.74	16761.40	1.40	37185.30	1.45	0.53	106764.00	457939.00	0.58	3.20	29728.00	1.66	2.14	42850.30	55904.10	15.83	75091.70
3	5	SLV	0.36	2947.74	498.17	1.40	37185.30	1.07	0.53	79292.40	457939.00	0.72	3.66	27863.70	1.10	2.14	23284.40	44723.30	15.83	62613.60
3	5	SLV	0.36	2947.74	16761.40	1.40	37185.30	1.45	0.53	106764.00	457939.00	0.58	3.20	29728.00	1.66	2.14	42850.30	55904.10	15.83	75091.70
3	5	SLV	0.36	2947.74	498.17	1.40	37185.30	1.07	0.53	79292.40	457939.00	0.72	3.66	27863.70	1.10	2.14	23284.40	44723.30	15.83	62613.60
3	5	SLV	0.36	2947.74	16761.40	1.40	48774.90	1.34	0.53	129759.00	457939.00	0.68	3.54	39919.40	1.43	2.14	44864.30	47077.20	15.83	65304.40
3	5	SLV	0.36	2947.74	498.17	1.40	48774.90	1.06	0.53	102288.00	457939.00	0.72	3.66	39453.40	1.07	2.14	32091.30	44723.30	15.83	62613.60
3	5	SLV	0.36	2947.74	16761.40	1.40	48774.90	1.34	0.53	129759.00	457939.00	0.68	3.54	39919.40	1.43	2.14	44864.30	47077.20	15.83	65304.40
3	5	SLV	0.36	2947.74	498.17	1.40	48774.90	1.06	0.53	102288.00	457939.00	0.72	3.66	39453.40	1.07	2.14	32091.30	44723.30	15.83	62613.60
3	7	SLV	0.36	2947.73	16761.40	1.40	37185.30	1.45	0.53	106764.00	457939.00	0.58	3.20	29728.00	1.66	2.14	42850.30	55904.10	15.83	75091.70
3	7	SLV	0.36	2947.73	498.18	1.40	37185.30	1.07	0.53	79292.40	457939.00	0.72	3.66	27863.70	1.10	2.14	23284.40	44723.30	15.83	62613.60
3	7	SLV	0.36	2947.73	16761.40	1.40	37185.30	1.45	0.53	106764.00	457939.00	0.58	3.20	29728.00	1.66	2.14	42850.30	55904.10	15.83	75091.70
3	7	SLV	0.36	2947.73	498.18	1.40	37185.30	1.07	0.53	79292.40	457939.00	0.72	3.66	27863.70	1.10	2.14	23284.40	44723.30	15.83	62613.60
3	7	SLV	0.36	2947.73	16761.40	1.40	48774.90	1.34	0.53	129759.00	457939.00	0.68	3.54	39919.40	1.43	2.14	44864.30	47077.20	15.83	65304.40
3	7	SLV	0.36	2947.73	498.18	1.40	48774.90	1.06	0.53	102288.00	457939.00	0.72	3.66	39453.40	1.07	2.14	32091.30	44723.30	15.83	62613.60
3	7	SLV	0.36	2947.73	16761.40	1.40	48774.90	1.34	0.53	129759.00	457939.00	0.68	3.54	39919.40	1.43	2.14	44864.30	47077.20	15.83	65304.40
3	7	SLV	0.36	2947.73	498.18	1.40	48774.90	1.06	0.53	102288.00	457939.00	0.72	3.66	39453.40	1.07	2.14	32091.30	44723.30	15.83	62613.60
3	9	SLU	0.36	0.00	11855.00	1.40	61726.80	1.19	0.53	145484.00	457939.00	0.72	3.66	48086.20	1.24	2.14	45353.00	44723.30	15.83	62613.60
4	1	SLV	0.36	10314.90	11441.10	1.40	42881.80	1.34	0.53	114302.00	457939.00	0.68	3.54	34277.30	1.45	2.14	38882.30	47077.20	15.83	65304.40
4	1	SLV	0.36	10314.90	6293.55	1.40	42881.80	1.27	0.53	107662.00	457939.00	0.72	3.66	33824.40	1.34	2.14	34350.30	44723.30	15.83	62613.60
4	1	SLV	0.36	9157.53	11441.10	1.40	42881.80	1.33	0.53	112964.00	457939.00	0.68	3.54	34277.30	1.43	2.14	38334.10	47077.20	15.83	65304.40
4	1	SLV	0.36	9157.53	6293.55	1.40	42881.80	1.24	0.53	105902.00	457939.00	0.72	3.66	33824.40	1.31	2.14	33676.20	44723.30	15.83	62613.60
4	1	SLV	0.36	10314.90	11441.10	1.40	47659.10	1.31	0.53	123780.00	457939.00	0.72	3.66	38601.60	1.38	2.14	40523.40	44723.30	15.83	62613.60
4	1	SLV	0.36	10314.90	6293.55	1.40	47659.10	1.24	0.53	117140.00	457939.00	0.72	3.66	38601.60	1.29	2.14	37980.40	44723.30	15.83	62613.60
4	1	SLV	0.36	9157.53	11441.10	1.40	47659.10	1.29	0.53	122443.00	457939.00	0.72	3.66	38601.60	1.36	2.14	40011.10	44723.30	15.83	62613.60
4	1	SLV	0.36	9157.53	6293.55	1.40	47659.10	1.22	0.53	115381.00	457939.00	0.72	3.66	38601.60	1.27	2.14	37306.40	44723.30	15.83	62613.60
4	3	SLV	0.36	10294.80	6611.00	1.40	46499.90	1.25	0.53	115149.00	457939.00	0.72	3.66	37442.50	1.31	2.14	37217.80	44723.30	15.83	62613.60
4	3	SLV	0.36	10294.80	11123.60	1.40	46499.90	1.31	0.53	120991.00	457939.00	0.72	3.66	37442.50	1.39	2.14	39455.00	44723.30	15.83	62613.60
4	3	SLV	0.36	9137.46	6611.00	1.40	46499.90	1.23	0.53	113419.00	457939.00	0.72	3.66	37442.50	1.28	2.14	36555.00	44723.30	15.83	62613.60
4	3	SLV	0.36	9137.46	11123.60	1.40	46499.90	1.30	0.53	119632.00	457939.00	0.72	3.66	37442.50	1.37	2.14	38934.60	44723.30	15.83	62613.60
4	3	SLV	0.36	10294.80	6611.00	1.40	44041.00	1.26	0.53	110270.00	457939.00	0.72	3.66	34983.50	1.33	2.14	35349.30	44723.30	15.83	62613.60
4	3	SLV	0.36	10294.80	11123.60	1.40	44041.00	1.33	0.53	116112.00	457939.00	0.68	3.54	35436.40	1.42	2.14	39589.60	47077.20	15.83	65304.40
4	3	SLV	0.36	9137.46	6611.00	1.40	44041.00	1.24	0.53	108540.00	457939.00	0.72	3.66	34983.50	1.30	2.14	34686.50	44723.30	15.83	62613.60
4	3	SLV	0.36	9137.46	11123.60	1.40	44041.00	1.31	0.53	114753.00	457939.00	0.68	3.54	35436.40	1.40	2.14	39032.60	47077.20	15.83	65304.40

4	5	SLV	0.36	3529.99	16965.10	1.40	39066.40	1.43	0.53	111077.00	457939.00	0.58	3.20	31820.50	1.63	2.14	44963.30	55904.10	15.83	75091.70
4	5	SLV	0.36	3529.99	769.55	1.40	39066.40	1.09	0.53	84180.70	457939.00	0.72	3.66	30009.00	1.11	2.14	25357.30	44723.30	15.83	62613.60
4	5	SLV	0.36	2372.63	16965.10	1.40	39066.40	1.43	0.53	110730.00	457939.00	0.58	3.20	31820.50	1.62	2.14	44787.10	55904.10	15.83	75091.70
4	5	SLV	0.36	2372.63	769.55	1.40	39066.40	1.06	0.53	82128.90	457939.00	0.72	3.66	30009.00	1.08	2.14	24571.50	44723.30	15.83	62613.60
4	5	SLV	0.36	3529.99	16965.10	1.40	51474.40	1.33	0.53	135696.00	457939.00	0.72	3.66	42417.00	1.40	2.14	45086.90	44723.30	15.83	62613.60
4	5	SLV	0.36	3529.99	769.55	1.40	51474.40	1.07	0.53	108800.00	457939.00	0.72	3.66	42417.00	1.08	2.14	34786.00	44723.30	15.83	62613.60
4	5	SLV	0.36	2372.63	16965.10	1.40	51474.40	1.33	0.53	135349.00	457939.00	0.72	3.66	42417.00	1.39	2.14	44954.10	44723.30	15.83	62613.60
4	5	SLV	0.36	2372.63	769.55	1.40	51474.40	1.05	0.53	106748.00	457939.00	0.72	3.66	42417.00	1.05	2.14	34000.20	44723.30	15.83	62613.60
4	7	SLV	0.36	2305.71	16869.90	1.40	39414.20	1.42	0.53	111221.00	457939.00	0.61	3.32	31715.40	1.59	2.14	42345.20	52615.70	15.83	71497.90
4	7	SLV	0.36	2305.71	864.79	1.40	39414.20	1.06	0.53	82767.20	457939.00	0.72	3.66	30356.80	1.08	2.14	24816.00	44723.30	15.83	62613.60
4	7	SLV	0.36	3463.08	16869.90	1.40	39414.20	1.43	0.53	111562.00	457939.00	0.61	3.32	31715.40	1.60	2.14	42506.00	52615.70	15.83	71497.90
4	7	SLV	0.36	3463.08	864.79	1.40	39414.20	1.08	0.53	84795.30	457939.00	0.72	3.66	30356.80	1.11	2.14	25592.70	44723.30	15.83	62613.60
4	7	SLV	0.36	2305.71	16869.90	1.40	51126.70	1.33	0.53	134460.00	457939.00	0.72	3.66	42069.30	1.40	2.14	44613.50	44723.30	15.83	62613.60
4	7	SLV	0.36	2305.71	864.79	1.40	51126.70	1.04	0.53	106006.00	457939.00	0.72	3.66	42069.30	1.05	2.14	33716.20	44723.30	15.83	62613.60
4	7	SLV	0.36	3463.08	16869.90	1.40	51126.70	1.33	0.53	134801.00	457939.00	0.72	3.66	42069.30	1.40	2.14	44744.10	44723.30	15.83	62613.60
4	7	SLV	0.36	3463.08	864.79	1.40	51126.70	1.06	0.53	108034.00	457939.00	0.72	3.66	42069.30	1.08	2.14	34492.90	44723.30	15.83	62613.60
4	9	SLU	0.36	870.09	12190.80	1.40	65025.80	1.18	0.53	152736.00	457939.00	0.72	3.66	51752.30	1.23	2.14	48409.10	44723.30	15.83	62613.60
5	1	SLV	0.36	5136.17	8936.23	0.70	20625.30	1.48	0.53	121357.00	457939.00	0.50	1.49	16167.30	1.80	2.14	54332.30	63890.40	18.10	129460.00
5	1	SLV	0.36	5136.17	3890.63	0.70	20625.30	1.30	0.53	106048.00	457939.00	0.58	1.60	15530.50	1.46	2.14	39389.20	55904.10	18.10	117731.00
5	1	SLV	0.36	15846.20	8936.23	0.70	20625.30	1.83	0.53	149725.00	457939.00	0.47	1.43	16485.70	2.41	2.14	76978.70	68805.10	18.10	136355.00
5	1	SLV	0.36	15846.20	3890.63	0.70	20625.30	1.74	0.53	142114.00	457939.00	0.47	1.43	16485.70	2.25	2.14	71776.00	68805.10	18.10	136355.00
5	1	SLV	0.36	5136.17	8936.23	0.70	29517.80	1.34	0.53	156644.00	457939.00	0.65	1.71	23786.10	1.45	2.14	56005.50	49692.60	18.10	108087.00
5	1	SLV	0.36	5136.17	3890.63	0.70	29517.80	1.21	0.53	141336.00	457939.00	0.72	1.83	23149.20	1.26	2.14	44450.80	44723.30	18.10	99990.80
5	1	SLV	0.36	15846.20	8936.23	0.70	29517.80	1.58	0.53	185012.00	457939.00	0.58	1.60	24422.90	1.82	2.14	77256.10	55904.10	18.10	117731.00
5	1	SLV	0.36	15846.20	3890.63	0.70	29517.80	1.51	0.53	177401.00	457939.00	0.61	1.66	24104.50	1.71	2.14	69004.70	52615.70	18.10	112687.00
5	3	SLV	0.36	6624.39	6372.91	0.70	23917.20	1.37	0.53	129651.00	457939.00	0.58	1.60	18822.40	1.55	2.14	50544.00	55904.10	18.10	117731.00
5	3	SLV	0.36	6624.39	6453.96	0.70	23917.20	1.37	0.53	129876.00	457939.00	0.58	1.60	18822.40	1.55	2.14	50661.00	55904.10	18.10	117731.00
5	3	SLV	0.36	14358.00	6372.91	0.70	23917.20	1.61	0.53	153277.00	457939.00	0.54	1.55	19140.80	1.95	2.14	66921.90	59631.10	18.10	123291.00
5	3	SLV	0.36	14358.00	6453.96	0.70	23917.20	1.62	0.53	153411.00	457939.00	0.54	1.55	19140.80	1.95	2.14	66998.20	59631.10	18.10	123291.00
5	3	SLV	0.36	6624.39	6372.91	0.70	26225.80	1.33	0.53	138812.00	457939.00	0.61	1.66	20812.60	1.48	2.14	51413.40	52615.70	18.10	112687.00
5	3	SLV	0.36	6624.39	6453.96	0.70	26225.80	1.34	0.53	139037.00	457939.00	0.61	1.66	20812.60	1.48	2.14	51521.20	52615.70	18.10	112687.00
5	3	SLV	0.36	14358.00	6372.91	0.70	26225.80	1.56	0.53	162438.00	457939.00	0.58	1.60	21131.00	1.82	2.14	66633.20	55904.10	18.10	117731.00
5	3	SLV	0.36	14358.00	6453.96	0.70	26225.80	1.56	0.53	162572.00	457939.00	0.58	1.60	21131.00	1.82	2.14	66703.20	55904.10	18.10	117731.00
5	5	SLV	0.36	6627.56	11058.00	0.70	18744.90	1.66	0.53	123763.00	457939.00	0.47	1.43	14605.30	2.17	2.14	61376.10	68805.10	18.10	136355.00
5	5	SLV	0.36	6627.56	1768.89	0.70	18744.90	1.34	0.53	99734.30	457939.00	0.54	1.55	13968.50	1.56	2.14	39208.80	59631.10	18.10	123291.00
5	5	SLV	0.36	14354.80	11058.00	0.70	18744.90	1.92	0.53	142474.00	457939.00	0.43	1.38	14923.80	2.65	2.14	79818.50	74538.90	18.10	144126.00
5	5	SLV	0.36	14354.80	1768.89	0.70	18744.90	1.72	0.53	127682.00	457939.00	0.47	1.43	14605.30	2.24	2.14	63493.80	68805.10	18.10	136355.00
5	5	SLV	0.36	6627.56	11058.00	0.70	31398.20	1.40	0.53	173974.00	457939.00	0.65	1.71	25666.50	1.53	2.14	63415.20	49692.60	18.10	108087.00
5	5	SLV	0.36	6627.56	1768.89	0.70	31398.20	1.20	0.53	149946.00	457939.00	0.72	1.83	25029.60	1.26	2.14	47748.20	44723.30	18.10	99990.80
5	5	SLV	0.36	14354.80	11058.00	0.70	31398.20	1.55	0.53	192685.00	457939.00	0.61	1.66	25984.90	1.75	2.14	75944.80	52615.70	18.10	112687.00
5	5	SLV	0.36	14354.80	1768.89	0.70	31398.20	1.43	0.53	177893.00	457939.00	0.65	1.71	25666.50	1.57	2.14	65072.80	49692.60	18.10	108087.00
5	7	SLV	0.36	9394.10	10313.30	0.70	20425.00	1.65	0.53	133960.00	457939.00	0.47	1.43	16285.50	2.12	2.14	66872.60	68805.10	18.10	136355.00
5	7	SLV	0.36	9394.10	2513.57	0.70	20425.00	1.44	0.53	116990.00	457939.00	0.54	1.55	15648.60	1.71	2.14	48120.80	59631.10	18.10	123291.00
5	7	SLV	0.36	11588.30	10313.30	0.70	20425.00	1.72	0.53	139561.00	457939.00	0.47	1.43	16285.50	2.23	2.14	70532.20	68805.10	18.10	136355.00
5	7	SLV	0.36	11588.30	2513.57	0.70	20425.00	1.54	0.53	124820.00	457939.00	0.50	1.49	15967.10	1.89	2.14	56262.60	63890.40	18.10	129460.00
5	7	SLV	0.36	9394.10	10313.30	0.70	29718.00	1.45	0.53	170837.00	457939.00	0.61	1.66	24304.70	1.62	2.14	65931.30	52615.70	18.10	112687.00
5	7	SLV	0.36	9394.10	2513.57	0.70	29718.00	1.30	0.53	153867.00	457939.00	0.68	1.77	23667.90	1.40	2.14	51866.70	47077.20	18.10	103871.00
5	7	SLV	0.36	11588.30	10313.30	0.70	29718.00	1.50	0.53	176438.00	457939.00	0.61	1.66	24304.70	1.68	2.14	68582.20	52615.70	18.10	112687.00
5	7	SLV	0.36	11588.30	2513.57	0.70	29718.00	1.37	0.53	161697.00	457939.00	0.65	1.71	23986.30	1.50	2.14	58152.70	49692.60	18.10	108087.00
5	9	SLU	0.36	14918.60	8763.88	0.70	35423.70	1.46	0.53	205182.00	457939.00	0.58	1.60	28115.10	1.68	2.14	81982.00	55904.10	18.10	117731.00
6	1	SLV	0.36	19559.60	4132.42	0.90	42962.90	1.43	0.53	189987.00	457939.00	0.50	2.48	36288.90	1.66	2.61	67489.10	63890.40	26.14	118688.00
6	1	SLV	0.36	19559.60	2724.77	0.90	42962.90	1.43	0.53	189215.00	457939.00	0.50	2.48	36288.90	1.65	2.61	67117.20	63890.40	26.14	118688.00
6	1	SLV	0.36	6485.68	4132.42	0.90	42962.90	1.17	0.53	154977.00	457939.00	0.61	2.82	34858.80	1.23	2.61	42432.20	52615.70	26.14	101733.00
6	1	SLV	0.36	6485.68	2724.77	0.90	42962.90	1.15	0.53	152915.00	457939.00	0.61	2.82	34858.80	1.21	2.61	41682.20	52615.70	26.14	101733.00
6	1	SLV	0.36	19559.60	4132.42	0.90	48882.00	1.38	0.53	208256.00	457939.00	0.54	2.59	41731.30	1.55	2.61	69212.50	59631.10	26.14	112414.00
6	1	SLV	0.36	19559.60	2724.77	0.90	48882.00	1.38	0.53	207484.00	457939.00	0.54	2.59	41731.30	1.54	2.61	68875.20	59631.10	26.14	112414.00
6	1	SLV	0.36	6485.68	4132.42	0.90	48882.00	1.15	0.53	173245.00	457939.00	0.65	2.93	40301.10	1.19	2.61	45642.20	49692.60	26.14	97143.90
6	1	SLV	0.36	6485.68	2724.77	0.90	48882.00	1.13	0.53	171184.00	457939.00	0.68	3.04	39824.40	1.17	2.61	42599.00	47077.20	26.14	92963.10
6	3	SLV	0.36	19518.90	2063.29	0.90	43576.50	1.42	0.53	190738.00	457939.00	0.50	2.48	36902.50	1.64	2.61	67627.60	63890.40	26.14	118688.00
6	3	SLV	0.36	19518.90	3470.95	0.90	43576.50	1.42	0.53	191365.00	457939.00	0.50	2.48	36902.50	1.64	2.61	67930.10	63890.40	26.14	118688.00
6	3	SLV	0.36	6526.36	2063.29	0.90	43576.50	1.15	0.53	154196.00	457939.00	0.61	2.82	35472.40	1.20	2.61	42063.50	52615.70	26.14	101733.00
6	3	SLV	0.36	6526.36	3470.95	0.90	43576.50	1.16	0.53	155923.00	457939.00	0.61	2.82	35472.40	1.22	2.61	42692.10	52615.70	26.14	101733.00
6	3	SLV	0.36	19518.90	2063.29	0.90	48268.40	1.38	0.53	205219.00	457939.00	0.54	2.59	41117.70	1.54	2.61	68056.40	59631.10	26.14	112414.00
6	3	SLV	0.36	19518.90	3470.95	0.90	48268.40	1.38	0.53	205846.00	457939.00	0.54	2.59	41117.70	1.55	2.61	68330.80	59631.10	26.14	112414.00
6	3	SLV	0.36	6526.36	2063.29	0.90	48268.40	1.13	0.53	168677.00	457939.00	0.68	3.04	39210.80	1.17	2.61	41849.60	47077.20	26.14	92963.10
6	3	SLV	0.36	6526.36	3470.95	0.90	48268.40	1.14	0.53	170404.00	457939.00	0.65	2.93	39687.50	1.19	2.61	44743.40	49692.60	26.14	97143.90
6	5	SLV	0.36	15045.40	11129.20	0.90	44104.00	1.40	0.53	190763.00	457939.00	0.50	2.48	37430.00	1.61	2.61	67618.40	63890.40	26.14	118688.00
6	5	SLV	0.36	15045.40	9721.59	0.90	44104.00	1.38	0.53	188257.00	457939.00	0.50	2.48	37430.00	1.58	2.61	66417.30	63890.40	26.14	118688.00
6	5	SLV	0.36	10999.80	11129.20	0.90	44104.00	1.34	0.53	182182.00	457939.00	0.50	2.48	37430.00	1.52	2.61	63638.80	63890.40	26.14	118688.00
6	5	SLV	0.36	10999.80	9721.59	0.90	44104.00	1.32	0.53	179180.00	457939.00	0.54	2.59	36953.30	1.47	2.61	58074.10	59631.10	26.14	112414.00
6	5	SLV	0.36	15045.40	11129.20	0.90	47740.90	1.37	0.53	201988.00	457939.00	0.54	2.59	40590.20	1.54	2.61	66915.00	59631.10	26.14	112414.00
6	5	SLV	0.36	15045.40	9721.59	0.90	47740.90	1.35	0.53	199482.00	457939.00	0.54	2.59	40590.20	1.51	2.61	65824.30	59631.10	26.14	112414.00
6	5	SLV	0.36	10999.80	11129.20	0.90	47740.90	1.31	0.53	193407.00	457939.00	0.54	2.59	40590.20	1.45	2.61	63276.70	59631.10	26.14	112414.00
6	5	SLV	0.36	10999.80	9721.59	0.90	47740.90	1.29	0.53	190405.00	457939.00	0.58	2.70	40113.50	1.41	2.61	58103.70	55904.10	26.14	106796.00
6	7	SLV	0.36	11135.40	10930.80	0.90	45695.60	1.33	0.53	186928.00	457939.00	0.54	2.59	38544.90	1.48	2.61	61009.30	59631.10	26.14	112414.00
6	7	SLV	0.36	11135.40	9523.15	0.90	45695.60	1.30	0.53	183973.00	457939.00	0.54	2.59	38544.90	1.45	2.61	59725.40	59631.10	26.14	112414.00
6	7	SLV	0.36	14909.80	10930.80	0.90	45695.60	1.38	0.53	195001.00	457939.00	0.50	2.48	39021.60	1.58	2.61	69083.60	63890.40	26.14	118688.00
6	7	SLV	0.36	14909.80	9523.15	0.90	45695.60	1.36	0.53	192512.00	457939.00	0.50	2.48	39021.60	1.55	2.61	67890.30	63890.40	26.14	118688.00
6	7	SLV	0.36	11135.40	10930.80	0.90	46149.30	1.32	0.53	188329.00	457939.00	0.54	2.59	38998.60	1.47	2.61	61495.60	59631.10	26.14	112414.00
6	7	SLV	0.36	11135.40	9523.15	0.90	46149.30	1.30	0.53	185374.00	457939.00	0.54	2.59	38998.60	1.44	2.61	60211.70	59631.10	26.14	112414.00
6	7	SLV	0.36	14909.80	10930.80	0.90	46149.30	1.38	0.53	196402.00	457939.00	0.50	2.48	39475.30	1.57	2.61	69591.90	63890.40	26.14	118688.00
6	7	SLV	0.36	14909.80	9523.15	0.90	46149.30	1.36	0.53	193912.00	457939.00	0.50	2.48	39475.30	1.55	2.61	68398.70	63890.40	26.14	118688.00
6	9	SLU	0.36	18855.90	865.84	0.90	66734.30	1.26	0.53	260031.00	457939.00	0.58	2.70	55543.90	1.37	2.61	78178.90	55904.10	26.14	106796.00
7	1	SLV	0.36	10875.80	6266.45	1.80	77947.20	1.15	0.53	138510.00	457939.00	0.72	6.31	67491.70	1.17	2.61	34903.30	44723.30	20.36	55192.40
7	1	SLV	0.36	10875.80	3283.13	1.80	77947.20	1.14	0.53	136631.00	457939.00	0.72	6.31	67491.70	1.16	2.61	34367.50	44723.30	20.36	55192.40
7	1	SLV	0.36	11946.20	6266.45	1.80	77947.20	1.16	0.53	139836.00	457939.00	0.72	6.31	67491.70	1.19	2.61	35281.50	44723.30	20.36	55192.40
7	1	SLV	0.36	11946.20	3283.13	1.80	77947.20	1.15	0.53	138098.00	457939.00	0.72	6.31	67491.70	1.17	2.61	34785.80	44723.30	20.36	55192.40
7	1	SLV	0.36	10875.80	6266.45	1.80	79380.20	1.15	0.53	140721.00	457939.00	0.72	6.31	68924.70	1.17	2.61	35534.10	44723.30	20.36	55192.40
7	1	SLV	0.36	10875.80	3283.13	1.80	79380.20	1.13	0.53	138843.00	457939.00	0.72	6.31	68924.70	1.15	2.61	34998.30	44723.30	20.36	55192.40
7	1	SLV	0.36	11946.20	6266.45	1.80	79380.20	1.16	0.53	142047.00	457939.00	0.72	6.31	68924.70	1.18	2.61	35912.30	44723.30	20.36	55192.40
7	1	SLV	0.36	11946.20	3283.13	1.80	79380.20	1.15	0.53	140309.00	457939.00	0.72	6.31	68924.70	1.17	2.61	35416.50	44723.30	20.36	55192.40
7	3	SLV	0.36	10862.10	2713.82	1.80	78895.10	1.13	0.53	137835.00	457939.00	0.72	6.31	68439.60	1.15	2.61	34711.00	44723.30	20.36	55192.40
7	3	SLV	0.36	10862.10	5697.15	1.80	78895.10	1.15	0.53	139524.00	457939.00	0.72	6.31	68439.60	1.17	2.61	35192.70	44723.30	20.36	55192.40
7	3	SLV	0.36	11932.50	2713.82	1.80	78895.10	1.14	0.53	139322.00	457939.00	0.72	6.31	68439.60	1.17	2.61	35134.90	44723.30	20.36	55192.40
7	3	SLV	0.36	11932.50	5697.15	1.80	78895.10	1.16	0.53	140880.00	457939.00	0.72	6.31	68439.60	1.18	2.61	35579.40	44723.30	20.36	55192.40
7	3	SLV	0.36	10862.10	2713.82	1.80	78432.30	1.13	0.53	137121.00	457939.00	0.72	6.31	67976.80	1.15	2.61	34507.20	44723.30	20.36	55192.40
7	3	SLV	0.36	10862.10	5697.15	1.80	78432.30	1.15	0.53	138810.00	457939.00	0.72	6.31	67976.80	1.17	2.61	34989.00	44723.30	20.36	55192.40
7	3	SLV	0.36	11932.50	2713.82	1.80	78432.30	1.15	0.53	138607.00	457939.00	0.72	6.31	67976.80	1.17	2.61	34931.20	44723.30	20.36	55192.40
7	3	SLV	0.36	11932.50	5697.15	1.80	78432.30	1.16	0.53	140166.00	457939.00	0.72	6.31	67976.80	1.18	2.61	35375.70	44723.30	20.36	55192.40
7	5	SLV	0.36	2908.81	16544.20	1.80	77011.00	1.21	0.53	144165.00	457939.00	0.72	6.31	66555.60	1.25	2.61	36516.40	44723.30	20.36	55192.40

7	5	SLV	0.36	2908.81	13560.90	1.80	77011.00	1.18	0.53	139736.00	457939.00	0.72	6.31	66555.60	1.20	2.61	35253.10	44723.30	20.36	55192.40
7	5	SLV	0.36	3979.17	16544.20	1.80	77011.00	1.22	0.53	144462.00	457939.00	0.72	6.31	66555.60	1.25	2.61	36601.00	44723.30	20.36	55192.40
7	5	SLV	0.36	3979.17	13560.90	1.80	77011.00	1.18	0.53	140095.00	457939.00	0.72	6.31	66555.60	1.21	2.61	35355.40	44723.30	20.36	55192.40
7	5	SLV	0.36	2908.81	16544.20	1.80	80316.40	1.20	0.53	149266.00	457939.00	0.72	6.31	69860.90	1.23	2.61	37971.20	44723.30	20.36	55192.40
7	5	SLV	0.36	2908.81	13560.90	1.80	80316.40	1.17	0.53	144837.00	457939.00	0.72	6.31	69860.90	1.19	2.61	36707.90	44723.30	20.36	55192.40
7	5	SLV	0.36	3979.17	16544.20	1.80	80316.40	1.21	0.53	149563.00	457939.00	0.72	6.31	69860.90	1.24	2.61	38055.90	44723.30	20.36	55192.40
7	5	SLV	0.36	3979.17	13560.90	1.80	80316.40	1.17	0.53	145195.00	457939.00	0.72	6.31	69860.90	1.20	2.61	36810.20	44723.30	20.36	55192.40
7	7	SLV	0.36	3933.68	16373.40	1.80	77156.60	1.21	0.53	144421.00	457939.00	0.72	6.31	66701.10	1.25	2.61	36589.30	44723.30	20.36	55192.40
7	7	SLV	0.36	3933.68	13390.10	1.80	77156.60	1.18	0.53	140053.00	457939.00	0.72	6.31	66701.10	1.20	2.61	35343.60	44723.30	20.36	55192.40
7	7	SLV	0.36	2863.32	16373.40	1.80	77156.60	1.21	0.53	144125.00	457939.00	0.72	6.31	66701.10	1.24	2.61	36504.90	44723.30	20.36	55192.40
7	7	SLV	0.36	2863.32	13390.10	1.80	77156.60	1.17	0.53	139695.00	457939.00	0.72	6.31	66701.10	1.20	2.61	35241.40	44723.30	20.36	55192.40
7	7	SLV	0.36	3933.68	16373.40	1.80	80170.80	1.20	0.53	149072.00	457939.00	0.72	6.31	69715.40	1.24	2.61	37916.00	44723.30	20.36	55192.40
7	7	SLV	0.36	3933.68	13390.10	1.80	80170.80	1.17	0.53	144705.00	457939.00	0.72	6.31	69715.40	1.20	2.61	36670.30	44723.30	20.36	55192.40
7	7	SLV	0.36	2863.32	16373.40	1.80	80170.80	1.20	0.53	148776.00	457939.00	0.72	6.31	69715.40	1.23	2.61	37831.60	44723.30	20.36	55192.40
7	7	SLV	0.36	2863.32	13390.10	1.80	80170.80	1.17	0.53	144347.00	457939.00	0.72	6.31	69715.40	1.19	2.61	36568.10	44723.30	20.36	55192.40
7	9	SLU	0.36	809.06	2002.28	1.80	117122.00	1.02	0.53	183981.00	457939.00	0.72	6.31	101139.00	1.02	2.61	45439.50	44723.30	20.36	55192.40
8	1	SLV	0.36	11475.00	5910.61	1.80	74776.20	1.16	0.53	134092.00	457939.00	0.72	6.31	63769.50	1.19	2.61	33400.80	44723.30	0.00	0.00
8	1	SLV	0.36	11475.00	3055.22	1.80	74776.20	1.15	0.53	132461.00	457939.00	0.72	6.31	63769.50	1.17	2.61	32935.50	44723.30	0.00	0.00
8	1	SLV	0.36	11475.00	5910.61	1.80	74776.20	1.16	0.53	134092.00	457939.00	0.72	6.31	63769.50	1.19	2.61	33400.80	44723.30	0.00	0.00
8	1	SLV	0.36	11475.00	3055.22	1.80	74776.20	1.15	0.53	132461.00	457939.00	0.72	6.31	63769.50	1.17	2.61	32935.50	44723.30	0.00	0.00
8	1	SLV	0.36	11475.00	5910.61	1.80	75758.10	1.16	0.53	135608.00	457939.00	0.72	6.31	64751.50	1.19	2.61	33833.00	44723.30	0.00	0.00
8	1	SLV	0.36	11475.00	3055.22	1.80	75758.10	1.15	0.53	133976.00	457939.00	0.72	6.31	64751.50	1.17	2.61	33367.70	44723.30	0.00	0.00
8	1	SLV	0.36	11475.00	5910.61	1.80	75758.10	1.16	0.53	135608.00	457939.00	0.72	6.31	64751.50	1.19	2.61	33833.00	44723.30	0.00	0.00
8	1	SLV	0.36	11475.00	3055.22	1.80	75758.10	1.15	0.53	133976.00	457939.00	0.72	6.31	64751.50	1.17	2.61	33367.70	44723.30	0.00	0.00
8	3	SLV	0.36	11475.00	3055.21	1.80	75758.10	1.15	0.53	133976.00	457939.00	0.72	6.31	64751.50	1.17	2.61	33367.70	44723.30	0.00	0.00
8	3	SLV	0.36	11475.00	5910.60	1.80	75758.10	1.16	0.53	135608.00	457939.00	0.72	6.31	64751.50	1.19	2.61	33833.00	44723.30	0.00	0.00
8	3	SLV	0.36	11475.00	3055.21	1.80	75758.10	1.15	0.53	133976.00	457939.00	0.72	6.31	64751.50	1.17	2.61	33367.70	44723.30	0.00	0.00
8	3	SLV	0.36	11475.00	5910.60	1.80	75758.10	1.16	0.53	135608.00	457939.00	0.72	6.31	64751.50	1.19	2.61	33833.00	44723.30	0.00	0.00
8	3	SLV	0.36	11475.00	3055.21	1.80	74776.20	1.15	0.53	132461.00	457939.00	0.72	6.31	63769.60	1.17	2.61	32935.50	44723.30	0.00	0.00
8	3	SLV	0.36	11475.00	5910.60	1.80	74776.20	1.16	0.53	134092.00	457939.00	0.72	6.31	63769.60	1.19	2.61	33400.80	44723.30	0.00	0.00
8	3	SLV	0.36	11475.00	3055.21	1.80	74776.20	1.15	0.53	132461.00	457939.00	0.72	6.31	63769.60	1.17	2.61	32935.50	44723.30	0.00	0.00
8	3	SLV	0.36	11475.00	5910.60	1.80	74776.20	1.16	0.53	134092.00	457939.00	0.72	6.31	63769.60	1.19	2.61	33400.80	44723.30	0.00	0.00
8	5	SLV	0.36	3442.49	16370.70	1.80	73630.50	1.22	0.53	138828.00	457939.00	0.68	6.09	63174.30	1.27	2.61	36593.80	47077.20	0.00	0.00
8	5	SLV	0.36	3442.49	13515.30	1.80	73630.50	1.18	0.53	134618.00	457939.00	0.72	6.31	62623.90	1.22	2.61	33550.80	44723.30	0.00	0.00
8	5	SLV	0.36	3442.49	16370.70	1.80	73630.50	1.22	0.53	138828.00	457939.00	0.68	6.09	63174.30	1.27	2.61	36593.80	47077.20	0.00	0.00
8	5	SLV	0.36	3442.49	13515.30	1.80	73630.50	1.18	0.53	134618.00	457939.00	0.72	6.31	62623.90	1.22	2.61	33550.80	44723.30	0.00	0.00
8	5	SLV	0.36	3442.49	16370.70	1.80	76903.70	1.21	0.53	143880.00	457939.00	0.72	6.31	65897.10	1.25	2.61	36192.30	44723.30	0.00	0.00
8	5	SLV	0.36	3442.49	13515.30	1.80	76903.70	1.18	0.53	139669.00	457939.00	0.72	6.31	65897.10	1.21	2.61	34991.40	44723.30	0.00	0.00
8	5	SLV	0.36	3442.49	16370.70	1.80	76903.70	1.21	0.53	143880.00	457939.00	0.72	6.31	65897.10	1.25	2.61	36192.30	44723.30	0.00	0.00
8	5	SLV	0.36	3442.49	13515.30	1.80	76903.70	1.18	0.53	139669.00	457939.00	0.72	6.31	65897.10	1.21	2.61	34991.40	44723.30	0.00	0.00
8	7	SLV	0.36	3442.49	16370.70	1.80	73630.50	1.22	0.53	138828.00	457939.00	0.68	6.09	63174.30	1.27	2.61	36593.80	47077.20	0.00	0.00
8	7	SLV	0.36	3442.49	13515.30	1.80	73630.50	1.18	0.53	134618.00	457939.00	0.72	6.31	62623.90	1.22	2.61	33550.80	44723.30	0.00	0.00
8	7	SLV	0.36	3442.49	16370.70	1.80	73630.50	1.22	0.53	138828.00	457939.00	0.68	6.09	63174.30	1.27	2.61	36593.80	47077.20	0.00	0.00
8	7	SLV	0.36	3442.49	13515.30	1.80	73630.50	1.18	0.53	134618.00	457939.00	0.72	6.31	62623.90	1.22	2.61	33550.80	44723.30	0.00	0.00
8	7	SLV	0.36	3442.49	16370.70	1.80	76903.70	1.21	0.53	143880.00	457939.00	0.72	6.31	65897.10	1.25	2.61	36192.30	44723.30	0.00	0.00
8	7	SLV	0.36	3442.49	13515.30	1.80	76903.70	1.18	0.53	139669.00	457939.00	0.72	6.31	65897.10	1.21	2.61	34991.40	44723.30	0.00	0.00
8	7	SLV	0.36	3442.49	16370.70	1.80	76903.70	1.21	0.53	143880.00	457939.00	0.72	6.31	65897.10	1.25	2.61	36192.30	44723.30	0.00	0.00
8	7	SLV	0.36	3442.49	13515.30	1.80	76903.70	1.18	0.53	139669.00	457939.00	0.72	6.31	65897.10	1.21	2.61	34991.40	44723.30	0.00	0.00
8	9	SLU	0.36	0.00	1903.95	1.80	112057.00	1.02	0.53	175802.00	457939.00	0.72	6.31	95304.90	1.02	2.61	42768.20	44723.30	0.00	0.00
9	1	SLV	0.36	11946.10	6266.44	1.80	77947.20	1.16	0.53	139835.00	457939.00	0.72	6.31	67491.70	1.19	2.61	35281.50	44723.30	20.36	55192.30
9	1	SLV	0.36	11946.10	3283.12	1.80	77947.20	1.15	0.53	138097.00	457939.00	0.72	6.31	67491.70	1.17	2.61	34785.70	44723.30	20.36	55192.30
9	1	SLV	0.36	10875.80	6266.44	1.80	77947.20	1.15	0.53	138509.00	457939.00	0.72	6.31	67491.70	1.17	2.61	34903.30	44723.30	20.36	55192.30
9	1	SLV	0.36	10875.80	3283.12	1.80	77947.20	1.14	0.53	136631.00	457939.00	0.72	6.31	67491.70	1.16	2.61	34367.50	44723.30	20.36	55192.30
9	1	SLV	0.36	11946.10	6266.44	1.80	79380.20	1.16	0.53	142047.00	457939.00	0.72	6.31	68924.70	1.18	2.61	35912.20	44723.30	20.36	55192.30
9	1	SLV	0.36	11946.10	3283.12	1.80	79380.20	1.15	0.53	140309.00	457939.00	0.72	6.31	68924.70	1.17	2.61	35416.50	44723.30	20.36	55192.30
9	1	SLV	0.36	10875.80	6266.44	1.80	79380.20	1.15	0.53	140721.00	457939.00	0.72	6.31	68924.70	1.17	2.61	35534.00	44723.30	20.36	55192.30
9	1	SLV	0.36	10875.80	3283.12	1.80	79380.20	1.13	0.53	138842.00	457939.00	0.72	6.31	68924.70	1.15	2.61	34998.20	44723.30	20.36	55192.30
9	3	SLV	0.36	11932.50	2713.82	1.80	78895.10	1.14	0.53	139321.00	457939.00	0.72	6.31	68439.60	1.17	2.61	35134.90	44723.30	20.36	55192.30
9	3	SLV	0.36	11932.50	5697.14	1.80	78895.10	1.16	0.53	140880.00	457939.00	0.72	6.31	68439.60	1.18	2.61	35579.30	44723.30	20.36	55192.30
9	3	SLV	0.36	10862.10	2713.82	1.80	78895.10	1.13	0.53	137835.00	457939.00	0.72	6.31	68439.60	1.15	2.61	34710.90	44723.30	20.36	55192.30
9	3	SLV	0.36	10862.10	5697.14	1.80	78895.10	1.15	0.53	139524.00	457939.00	0.72	6.31	68439.60	1.17	2.61	35192.70	44723.30	20.36	55192.30
9	3	SLV	0.36	11932.50	2713.82	1.80	78432.30	1.15	0.53	138607.00	457939.00	0.72	6.31	67976.80	1.17	2.61	34931.10	44723.30	20.36	55192.30
9	3	SLV	0.36	11932.50	5697.14	1.80	78432.30	1.16	0.53	140165.00	457939.00	0.72	6.31	67976.80	1.18	2.61	35375.60	44723.30	20.36	55192.30
9	3	SLV	0.36	10862.10	2713.82	1.80	78432.30	1.13	0.53	137121.00	457939.00	0.72	6.31	67976.80	1.15	2.61	34507.20	44723.30	20.36	55192.30
9	3	SLV	0.36	10862.10	5697.14	1.80	78432.30	1.15	0.53	138810.00	457939.00	0.72	6.31	67976.80	1.17	2.61	34989.00	44723.30	20.36	55192.30
9	5	SLV	0.36	3979.16	16544.20	1.80	77011.00	1.22	0.53	144462.00	457939.00	0.72	6.31	66555.50	1.25	2.61	36601.00	44723.30	20.36	55192.30
9	5	SLV	0.36	3979.16	13560.80	1.80	77011.00	1.18	0.53	140094.00	457939.00	0.72	6.31	66555.50	1.21	2.61	35355.30	44723.30	20.36	55192.30
9	5	SLV	0.36	2908.81	16544.20	1.80	77011.00	1.21	0.53	144165.00	457939.00	0.72	6.31	66555.50	1.25	2.61	36516.30	44723.30	20.36	55192.30
9	5	SLV	0.36	2908.81	13560.80	1.80	77011.00	1.18	0.53	139736.00	457939.00	0.72	6.31	66555.50	1.20	2.61	35253.00	44723.30	20.36	55192.30
9	5	SLV	0.36	3979.16	16544.20	1.80	80316.40	1.21	0.53	149562.00	457939.00	0.72	6.31	69860.90	1.24	2.61	38055.80	44723.30	20.36	55192.30
9	5	SLV	0.36	3979.16	13560.80	1.80	80316.40	1.17	0.53	145195.00	457939.00	0.72	6.31	69860.90	1.20	2.61	36810.20	44723.30	20.36	55192.30
9	5	SLV	0.36	2908.81	16544.20	1.80	80316.40	1.20	0.53	149266.00	457939.00	0.72	6.31	69860.90	1.23	2.61	37971.20	44723.30	20.36	55192.30
9	5	SLV	0.36	2908.81	13560.80	1.80	80316.40	1.17	0.53	144836.00	457939.00	0.72	6.31	69860.90	1.19	2.61	36707.90	44723.30	20.36	55192.30
9	7	SLV	0.36	2863.32	16373.40	1.80	77156.50	1.21	0.53	144124.00	457939.00	0.72	6.31	66701.10	1.24	2.61	36504.80	44723.30	20.36	55192.30
9	7	SLV	0.36	2863.32	13390.00	1.80	77156.50	1.17	0.53	139695.00	457939.00	0.72	6.31	66701.10	1.20	2.61	35241.30	44723.30	20.36	55192.30
9	7	SLV	0.36	3933.68	16373.40	1.80	77156.50	1.21	0.53	144420.00	457939.00	0.72	6.31	66701.10	1.25	2.61	36589.20	44723.30	20.36	55192.30
9	7	SLV	0.36	3933.68	13390.00	1.80	77156.50	1.18	0.53	140053.00	457939.00	0.72	6.31	66701.10	1.20	2.61	35343.60	44723.30	20.36	55192.30
9	7	SLV	0.36	2863.32	16373.40	1.80	80170.80	1.20	0.53	148776.00	457939.00	0.72	6.31	69715.30	1.23	2.61	37831.50	44723.30	20.36	55192.30
9	7	SLV	0.36	2863.32	13390.00	1.80	80170.80	1.17	0.53	144346.00	457939.00	0.72	6.31	69715.30	1.19	2.61	36568.00	44723.30	20.36	55192.30
9	7	SLV	0.36	3933.68	16373.40	1.80	80170.80	1.20	0.53	149072.00	457939.00	0.72	6.31	69715.30	1.24	2.61	37915.90	44723.30	20.36	55192.30
9	7	SLV	0.36	3933.68	13390.00	1.80	80170.80	1.17	0.53	144705.00	457939.00	0.72	6.31	69715.30	1.20	2.61	36670.30	44723.30	20.36	55192.30
9	9	SLU	0.36	809.05	2002.28	1.80	117122.00	1.02	0.53	183981.00	457939.00	0.72	6.31	101139.00	1.02	2.61	45439.50	44723.30	20.36	55192.30
10	1	SLV	0.36	6485.68	4132.42	0.90	42962.90	1.17	0.53	154977.00	457939.00	0.61	2.82	34858.80	1.23	2.61	42432.30	52615.70	26.14	101733.00
10	1	SLV	0.36	6485.68	2724.77	0.90	42962.90	1.15	0.53	152916.00	457939.00	0.61	2.82	34858.80	1.21	2.61	41682.30	52615.70	26.14	101733.00
10	1	SLV	0.36	19559.60	4132.42	0.90	42962.90	1.43	0.53	189988.00	457939.00	0.50	2.48	36289.00	1.66	2.61	67489.10	63890.40	26.14	118688.00
10	1	SLV	0.36	19559.60	2724.77	0.90	42962.90	1.43	0.53	189216.00	457939.00	0.50	2.48	36289.00	1.65	2.61	67117.30	63890.40	26.14	118688.00
10	1	SLV	0.36	6485.68	4132.42	0.90	48882.00	1.15	0.53	173246.00	457939.00	0.65	2.93	40301.10	1.19	2.61	45642.20	49692.60	26.14	97143.90
10	1	SLV	0.36	6485.68	2724.77	0.90	48882.00	1.13	0.53	171184.00	457939.00	0.68	3.04	39824.40	1.17	2.61	42599.00	47077.20	26.14	92963.20
10	1	SLV	0.36	19559.60	4132.42	0.90	48882.00	1.38	0.53	208256.00	457939.00	0.54	2.59	41731.30	1.55	2.61	69212.50	59631.10	26.14	112414.00
10	1	SLV	0.36	19559.60	2724.77	0.90	48882.00	1.38	0.53	207484.00	457939.00	0.54	2.59	41731.30	1.54	2.61	68875.30	59631.10	26.14	112414.00
10	3	SLV	0.36	6526.36	2063.30	0.90	43576.50	1.15	0.53	154196.00	457939.00	0.61	2.82	35472.40	1.20	2.61	42063.50	52615.70	26.14	101733.00
10	3	SLV	0.36	6526.36	3470.96	0.90	43576.50	1.16	0.53	155923.00	457939.00	0.61	2.82	35472.40	1.22	2.61	42692.10	52615.70	26.14	101733.00
10	3	SLV	0.36	19518.90	2063.30	0.90	43576.50	1.42	0.53	190738.00	457939.00	0.50	2.48	36902.60	1.64	2.61	67627.60	63890.40	26.14	118688.00
10	3	SLV	0.36	19518.90	3470.96	0.90	43576.50	1.42	0.53	191366.00	457939.00	0.50	2.48	36902.60	1.64	2.61	67930.10	63890.40	26.14	118688.00
10	3	SLV	0.36	6526.36	2063.30	0.90	48268.40	1.13	0.53	168677.00	457939.00	0.68	3.04	39210.80	1.17	2.61	41849.60	47077.20	26.14	92963.20
10	3	SLV	0.36	6526.36	3470.96	0.90	48268.40	1.14	0.53	170404.00	457939.00	0.65	2.93	39687.50	1.19	2.61	44743.40	49692.60	26.14	97143.90
10	3	SLV	0.36	19518.90	2063.30	0.90	48268.40	1.38	0.53	205219.00	457939.00	0.54	2.59	41117.70	1.54	2.61	68056.50	59631.10	26.14	112414.00
10	3	SLV	0.36	19518.90	3470.96	0.90	48268.40	1.38	0.53	205847.00	457939.00	0.54	2.59	41117.70	1.55	2.61	68330.90	59631.10	26.14	112414.00
10	5	SLV	0.36	10999.80	11129.30	0.90	44104.00	1.34	0.53	182183.00	457939.00	0.50	2.48	37430.00	1.52	2.61	63638.80	63890.40	26.14	118688.00
10	5	SLV	0.36	10999.80	9721.60	0.90	44104.00	1.32	0.53	179180.00	457939.00	0.54	2.59	36953.30	1.47	2.61	58074.20	59631.10	26.14	112414.00

10	5	SLV	0.36	15045.40	11129.30	0.90	44104.00	1.40	0.53	190764.00	457939.00	0.50	2.48	37430.00	1.61	2.61	67618.50	63890.40	26.14	118688.00
10	5	SLV	0.36	15045.40	9721.60	0.90	44104.00	1.38	0.53	188258.00	457939.00	0.50	2.48	37430.00	1.58	2.61	66417.40	63890.40	26.14	118688.00
10	5	SLV	0.36	10999.80	11129.30	0.90	47740.90	1.31	0.53	193408.00	457939.00	0.54	2.59	40590.20	1.45	2.61	63276.70	59631.10	26.14	112414.00
10	5	SLV	0.36	10999.80	9721.60	0.90	47740.90	1.29	0.53	190405.00	457939.00	0.58	2.70	40113.50	1.41	2.61	58103.70	55904.10	26.14	106796.00
10	5	SLV	0.36	15045.40	11129.30	0.90	47740.90	1.37	0.53	201989.00	457939.00	0.54	2.59	40590.20	1.54	2.61	66915.10	59631.10	26.14	112414.00
10	5	SLV	0.36	15045.40	9721.60	0.90	47740.90	1.35	0.53	199483.00	457939.00	0.54	2.59	40590.20	1.51	2.61	65824.40	59631.10	26.14	112414.00
10	7	SLV	0.36	14909.80	10930.80	0.90	45695.60	1.38	0.53	195002.00	457939.00	0.50	2.48	39021.60	1.58	2.61	69083.60	63890.40	26.14	118688.00
10	7	SLV	0.36	14909.80	9523.16	0.90	45695.60	1.36	0.53	192513.00	457939.00	0.50	2.48	39021.60	1.55	2.61	67890.40	63890.40	26.14	118688.00
10	7	SLV	0.36	11135.40	10930.80	0.90	45695.60	1.33	0.53	186929.00	457939.00	0.54	2.59	38544.90	1.48	2.61	61009.40	59631.10	26.14	112414.00
10	7	SLV	0.36	11135.40	9523.16	0.90	45695.60	1.30	0.53	183974.00	457939.00	0.54	2.59	38544.90	1.45	2.61	59725.50	59631.10	26.14	112414.00
10	7	SLV	0.36	14909.80	10930.80	0.90	46149.30	1.38	0.53	196402.00	457939.00	0.50	2.48	39475.30	1.57	2.61	69592.00	63890.40	26.14	118688.00
10	7	SLV	0.36	14909.80	9523.16	0.90	46149.30	1.36	0.53	193913.00	457939.00	0.50	2.48	39475.30	1.55	2.61	68398.80	63890.40	26.14	118688.00
10	7	SLV	0.36	11135.40	10930.80	0.90	46149.30	1.32	0.53	188329.00	457939.00	0.54	2.59	38998.60	1.47	2.61	61495.70	59631.10	26.14	112414.00
10	7	SLV	0.36	11135.40	9523.16	0.90	46149.30	1.30	0.53	185374.00	457939.00	0.54	2.59	38998.60	1.44	2.61	60211.80	59631.10	26.14	112414.00
10	9	SLU	0.36	18855.90	865.84	0.90	66734.30	1.26	0.53	260031.00	457939.00	0.58	2.70	55543.90	1.37	2.61	78179.00	55904.10	26.14	106796.00
11	1	SLV	0.36	19982.50	3744.57	0.90	43923.20	1.43	0.53	193895.00	457939.00	0.50	2.48	37151.40	1.65	2.61	68892.80	63890.40	26.14	118688.00
11	1	SLV	0.36	19982.50	3635.75	0.90	43923.20	1.43	0.53	193832.00	457939.00	0.50	2.48	37151.40	1.65	2.61	68862.50	63890.40	26.14	118688.00
11	1	SLV	0.36	6573.58	3744.57	0.90	43923.20	1.16	0.53	157524.00	457939.00	0.61	2.82	35700.30	1.22	2.61	43109.70	52615.70	26.14	101733.00
11	1	SLV	0.36	6573.58	3635.75	0.90	43923.20	1.16	0.53	157357.00	457939.00	0.61	2.82	35700.30	1.22	2.61	43048.80	52615.70	26.14	101733.00
11	1	SLV	0.36	19982.50	3744.57	0.90	49942.40	1.38	0.53	212473.00	457939.00	0.54	2.59	42686.90	1.54	2.61	70636.70	59631.10	26.14	112414.00
11	1	SLV	0.36	19982.50	3635.75	0.90	49942.40	1.38	0.53	212410.00	457939.00	0.54	2.59	42686.90	1.54	2.61	70609.30	59631.10	26.14	112414.00
11	1	SLV	0.36	6573.58	3744.57	0.90	49942.40	1.14	0.53	176102.00	457939.00	0.68	3.04	40752.10	1.18	2.61	43953.00	47077.20	26.14	92963.10
11	1	SLV	0.36	6573.58	3635.75	0.90	49942.40	1.14	0.53	175935.00	457939.00	0.68	3.04	40752.10	1.18	2.61	43901.40	47077.20	26.14	92963.10
11	3	SLV	0.36	19922.30	2499.62	0.90	44406.70	1.42	0.53	194606.00	457939.00	0.50	2.48	37634.90	1.64	2.61	69060.60	63890.40	26.14	118688.00
11	3	SLV	0.36	19922.30	2608.44	0.90	44406.70	1.42	0.53	194650.00	457939.00	0.50	2.48	37634.90	1.64	2.61	69081.80	63890.40	26.14	118688.00
11	3	SLV	0.36	6633.81	2499.62	0.90	44406.70	1.15	0.53	157499.00	457939.00	0.61	2.82	36183.90	1.21	2.61	43033.40	52615.70	26.14	101733.00
11	3	SLV	0.36	6633.81	2608.44	0.90	44406.70	1.15	0.53	157623.00	457939.00	0.61	2.82	36183.90	1.21	2.61	43078.40	52615.70	26.14	101733.00
11	3	SLV	0.36	19922.30	2499.62	0.90	49458.90	1.38	0.53	210199.00	457939.00	0.54	2.59	42203.40	1.54	2.61	69778.70	59631.10	26.14	112414.00
11	3	SLV	0.36	19922.30	2608.44	0.90	49458.90	1.38	0.53	210243.00	457939.00	0.54	2.59	42203.40	1.54	2.61	69797.90	59631.10	26.14	112414.00
11	3	SLV	0.36	6633.81	2499.62	0.90	49458.90	1.13	0.53	173092.00	457939.00	0.68	3.04	40268.60	1.17	2.61	43043.40	47077.20	26.14	92963.10
11	3	SLV	0.36	6633.81	2608.44	0.90	49458.90	1.13	0.53	173216.00	457939.00	0.68	3.04	40268.60	1.17	2.61	43081.60	47077.20	26.14	92963.10
11	5	SLV	0.36	15380.70	10631.80	0.90	45296.50	1.39	0.53	194306.00	457939.00	0.50	2.48	38524.70	1.59	2.61	68767.90	63890.40	26.14	118688.00
11	5	SLV	0.36	15380.70	10523.00	0.90	45296.50	1.39	0.53	194113.00	457939.00	0.50	2.48	38524.70	1.59	2.61	68675.50	63890.40	26.14	118688.00
11	5	SLV	0.36	11175.40	10631.80	0.90	45296.50	1.32	0.53	185132.00	457939.00	0.54	2.59	38041.00	1.48	2.61	60223.30	59631.10	26.14	112414.00
11	5	SLV	0.36	11175.40	10523.00	0.90	45296.50	1.32	0.53	184900.00	457939.00	0.54	2.59	38041.00	1.47	2.61	60122.50	59631.10	26.14	112414.00
11	5	SLV	0.36	15380.70	10631.80	0.90	48569.10	1.36	0.53	204407.00	457939.00	0.54	2.59	41313.60	1.53	2.61	67622.30	59631.10	26.14	112414.00
11	5	SLV	0.36	15380.70	10523.00	0.90	48569.10	1.36	0.53	204214.00	457939.00	0.54	2.59	41313.60	1.53	2.61	67538.40	59631.10	26.14	112414.00
11	5	SLV	0.36	11175.40	10631.80	0.90	48569.10	1.30	0.53	195233.00	457939.00	0.54	2.59	41313.60	1.44	2.61	63731.00	59631.10	26.14	112414.00
11	5	SLV	0.36	11175.40	10523.00	0.90	48569.10	1.30	0.53	195001.00	457939.00	0.54	2.59	41313.60	1.44	2.61	63630.20	59631.10	26.14	112414.00
11	7	SLV	0.36	11376.10	10291.00	0.90	46957.20	1.31	0.53	189949.00	457939.00	0.54	2.59	39701.70	1.45	2.61	61864.90	59631.10	26.14	112414.00
11	7	SLV	0.36	11376.10	10182.20	0.90	46957.20	1.31	0.53	189723.00	457939.00	0.54	2.59	39701.70	1.45	2.61	61766.60	59631.10	26.14	112414.00
11	7	SLV	0.36	15180.00	10291.00	0.90	46957.20	1.37	0.53	198363.00	457939.00	0.50	2.48	40185.40	1.56	2.61	70123.60	63890.40	26.14	118688.00
11	7	SLV	0.36	15180.00	10182.20	0.90	46957.20	1.37	0.53	198173.00	457939.00	0.50	2.48	40185.40	1.56	2.61	70032.30	63890.40	26.14	118688.00
11	7	SLV	0.36	11376.10	10291.00	0.90	46908.40	1.31	0.53	189799.00	457939.00	0.54	2.59	39652.90	1.45	2.61	61812.50	59631.10	26.14	112414.00
11	7	SLV	0.36	11376.10	10182.20	0.90	46908.40	1.31	0.53	189572.00	457939.00	0.54	2.59	39652.90	1.45	2.61	61714.20	59631.10	26.14	112414.00
11	7	SLV	0.36	15180.00	10291.00	0.90	46908.40	1.37	0.53	198213.00	457939.00	0.50	2.48	40136.60	1.56	2.61	70068.90	63890.40	26.14	118688.00
11	7	SLV	0.36	15180.00	10182.20	0.90	46908.40	1.37	0.53	198022.00	457939.00	0.50	2.48	40136.60	1.56	2.61	69977.60	63890.40	26.14	118688.00
11	9	SLU	0.36	19227.70	197.67	0.90	68211.20	1.26	0.53	265594.00	457939.00	0.58	2.70	56858.40	1.37	2.61	79921.20	55904.10	26.14	106796.00
12	1	SLV	0.36	11017.00	4593.73	1.80	79444.50	1.14	0.53	139831.00	457939.00	0.72	6.31	68964.90	1.16	2.61	35269.70	44723.30	20.36	55192.40
12	1	SLV	0.36	11017.00	5047.11	1.80	79444.50	1.14	0.53	140118.00	457939.00	0.72	6.31	68964.90	1.16	2.61	35351.40	44723.30	20.36	55192.40
12	1	SLV	0.36	12098.90	4593.73	1.80	79444.50	1.15	0.53	141260.00	457939.00	0.72	6.31	68964.90	1.18	2.61	35677.10	44723.30	20.36	55192.40
12	1	SLV	0.36	12098.90	5047.11	1.80	79444.50	1.15	0.53	141525.00	457939.00	0.72	6.31	68964.90	1.18	2.61	35752.70	44723.30	20.36	55192.40
12	1	SLV	0.36	11017.00	4593.73	1.80	80824.60	1.14	0.53	141961.00	457939.00	0.72	6.31	70345.00	1.16	2.61	35877.10	44723.30	20.36	55192.40
12	1	SLV	0.36	11017.00	5047.11	1.80	80824.60	1.14	0.53	142248.00	457939.00	0.72	6.31	70345.00	1.16	2.61	35958.90	44723.30	20.36	55192.40
12	1	SLV	0.36	12098.90	4593.73	1.80	80824.60	1.15	0.53	143390.00	457939.00	0.72	6.31	70345.00	1.17	2.61	36284.60	44723.30	20.36	55192.40
12	1	SLV	0.36	12098.90	5047.11	1.80	80824.60	1.15	0.53	143655.00	457939.00	0.72	6.31	70345.00	1.17	2.61	36360.20	44723.30	20.36	55192.40
12	3	SLV	0.36	11004.20	4411.29	1.80	80233.30	1.14	0.53	140923.00	457939.00	0.72	6.31	69753.70	1.16	2.61	35580.90	44723.30	20.36	55192.40
12	3	SLV	0.36	11004.20	3957.91	1.80	80233.30	1.14	0.53	140668.00	457939.00	0.72	6.31	69753.70	1.16	2.61	35508.30	44723.30	20.36	55192.40
12	3	SLV	0.36	12086.00	4411.29	1.80	80233.30	1.15	0.53	142359.00	457939.00	0.72	6.31	69753.70	1.17	2.61	35990.70	44723.30	20.36	55192.40
12	3	SLV	0.36	12086.00	3957.91	1.80	80233.30	1.15	0.53	142125.00	457939.00	0.72	6.31	69753.70	1.17	2.61	35923.80	44723.30	20.36	55192.40
12	3	SLV	0.36	11004.20	4411.29	1.80	80035.80	1.14	0.53	140618.00	457939.00	0.72	6.31	69556.20	1.16	2.61	35494.00	44723.30	20.36	55192.40
12	3	SLV	0.36	11004.20	3957.91	1.80	80035.80	1.14	0.53	140363.00	457939.00	0.72	6.31	69556.20	1.16	2.61	35421.40	44723.30	20.36	55192.40
12	3	SLV	0.36	12086.00	4411.29	1.80	80035.80	1.15	0.53	142055.00	457939.00	0.72	6.31	69556.20	1.17	2.61	35903.80	44723.30	20.36	55192.40
12	3	SLV	0.36	12086.00	3957.91	1.80	80035.80	1.15	0.53	141820.00	457939.00	0.72	6.31	69556.20	1.17	2.61	35836.80	44723.30	20.36	55192.40
12	5	SLV	0.36	2945.99	14877.10	1.80	78731.10	1.19	0.53	144351.00	457939.00	0.72	6.31	68251.60	1.22	2.61	36558.70	44723.30	20.36	55192.40
12	5	SLV	0.36	2945.99	15330.40	1.80	78731.10	1.19	0.53	145024.00	457939.00	0.72	6.31	68251.60	1.22	2.61	36750.60	44723.30	20.36	55192.40
12	5	SLV	0.36	4027.87	14877.10	1.80	78731.10	1.19	0.53	144687.00	457939.00	0.72	6.31	68251.60	1.22	2.61	36654.50	44723.30	20.36	55192.40
12	5	SLV	0.36	4027.87	15330.40	1.80	78731.10	1.20	0.53	145350.00	457939.00	0.72	6.31	68251.60	1.23	2.61	36843.80	44723.30	20.36	55192.40
12	5	SLV	0.36	2945.99	14877.10	1.80	81537.90	1.18	0.53	148682.00	457939.00	0.72	6.31	71058.40	1.21	2.61	37794.10	44723.30	20.36	55192.40
12	5	SLV	0.36	2945.99	15330.40	1.80	81537.90	1.19	0.53	149355.00	457939.00	0.72	6.31	71058.40	1.21	2.61	37986.00	44723.30	20.36	55192.40
12	5	SLV	0.36	4027.87	14877.10	1.80	81537.90	1.18	0.53	149018.00	457939.00	0.72	6.31	71058.40	1.21	2.61	37889.90	44723.30	20.36	55192.40
12	5	SLV	0.36	4027.87	15330.40	1.80	81537.90	1.19	0.53	149682.00	457939.00	0.72	6.31	71058.40	1.22	2.61	38079.20	44723.30	20.36	55192.40
12	7	SLV	0.36	3984.94	14686.30	1.80	78908.50	1.19	0.53	144666.00	457939.00	0.72	6.31	68429.00	1.22	2.61	36648.70	44723.30	20.36	55192.40
12	7	SLV	0.36	3984.94	15139.70	1.80	78908.50	1.19	0.53	145330.00	457939.00	0.72	6.31	68429.00	1.22	2.61	36837.90	44723.30	20.36	55192.40
12	7	SLV	0.36	2903.05	14686.30	1.80	78908.50	1.19	0.53	144330.00	457939.00	0.72	6.31	68429.00	1.21	2.61	36552.80	44723.30	20.36	55192.40
12	7	SLV	0.36	2903.05	15139.70	1.80	78908.50	1.19	0.53	145003.00	457939.00	0.72	6.31	68429.00	1.22	2.61	36744.80	44723.30	20.36	55192.40
12	7	SLV	0.36	3984.94	14686.30	1.80	81360.50	1.18	0.53	148450.00	457939.00	0.72	6.31	70881.00	1.21	2.61	37727.90	44723.30	20.36	55192.40
12	7	SLV	0.36	3984.94	15139.70	1.80	81360.50	1.19	0.53	149114.00	457939.00	0.72	6.31	70881.00	1.22	2.61	37917.20	44723.30	20.36	55192.40
12	7	SLV	0.36	2903.05	14686.30	1.80	81360.50	1.18	0.53	148114.00	457939.00	0.72	6.31	70881.00	1.21	2.61	37632.10	44723.30	20.36	55192.40
12	7	SLV	0.36	2903.05	15139.70	1.80	81360.50	1.19	0.53	148787.00	457939.00	0.72	6.31	70881.00	1.21	2.61	37824.00	44723.30	20.36	55192.40
12	9	SLU	0.36	816.38	230.74	1.80	119323.00	1.01	0.53	185361.00	457939.00	0.72	6.31	103296.00	1.01	2.61	45813.60	44723.30	20.36	55192.40
13	1	SLV	0.36	11629.70	4306.67	1.80	76268.90	1.15	0.53	135575.00	457939.00	0.72	6.31	65222.70	1.18	2.61	33806.30	44723.30	0.00	0.00
13	1	SLV	0.36	11629.70	4682.39	1.80	76268.90	1.15	0.53	135789.00	457939.00	0.72	6.31	65222.70	1.18	2.61	33867.40	44723.30	0.00	0.00
13	1	SLV	0.36	11629.70	4306.67	1.80	76268.90	1.15	0.53	135575.00	457939.00	0.72	6.31	65222.70	1.18	2.61	33806.30	44723.30	0.00	0.00
13	1	SLV	0.36	11629.70	4682.39	1.80	76268.90	1.15	0.53	135789.00	457939.00	0.72	6.31	65222.70	1.18	2.61	33867.40	44723.30	0.00	0.00
13	1	SLV	0.36	11629.70	4306.67	1.80	77090.20	1.15	0.53	136843.00	457939.00	0.72	6.31	66044.00	1.18	2.61	34167.80	44723.30	0.00	0.00
13	1	SLV	0.36	11629.70	4682.39	1.80	77090.20	1.15	0.53	137057.00	457939.00	0.72	6.31	66044.00	1.18	2.61	34228.90	44723.30	0.00	0.00
13	1	SLV	0.36	11629.70	4306.67	1.80	77090.20	1.15	0.53	136843.00	457939.00	0.72	6.31	66044.00	1.18	2.61	34167.80	44723.30	0.00	0.00
13	1	SLV	0.36	11629.70	4682.39	1.80	77090.20	1.15	0.53	137057.00	457939.00	0.72	6.31	66044.00	1.18	2.61	34228.90	44723.30	0.00	0.00
13	3	SLV	0.36	11629.70	4682.38	1.80	77090.20	1.15	0.53	137057.00	457939.00	0.72	6.31	66044.00	1.18	2.61	34228.90	44723.30	0.00	0.00
13	3	SLV	0.36	11629.70	4306.67	1.80	77090.20	1.15	0.53	136843.00	457939.00	0.72	6.31	66044.00	1.18	2.61	34167.80	44723.30	0.00	0.00
13	3	SLV	0.36	11629.70	4682.38	1.80	77090.20	1.15	0.53	137057.00	457939.00	0.72	6.31	66044.00	1.18	2.61	34228.90	44723.30	0.00	0.00
13	3	SLV	0.36	11629.70	4306.67	1.80	77090.20	1.15	0.53	136843.00	457939.00	0.72	6.31	66044.00	1.18	2.61	34167.80	44723.30	0.00	0.00
13	3	SLV	0.36	11629.70	4682.38	1.80	76268.90	1.15	0.53	135789.00	457939.00	0.72	6.31	65222.70	1.18	2.61	33867.40	44723.30	0.00	0.00
13	3	SLV	0.36	11629.70	4306.67	1.80	76268.90	1.15	0.53	135575.00	457939.00	0.72	6.31	65222.70	1.18	2.61	33806.30	44723.30	0.00	0.00
13	3	SLV	0.36	11629.70	4682.38	1.80	76268.90	1.15	0.53	135789.00	457939.00	0.72	6.31	65222.70	1.18	2.61	33867.40	44723.30	0.00	0.00
13	3	SLV	0.36	11629.70	4306.67	1.80	76268.90	1.15	0.53	135575.00	457939.00	0.72	6.31	65222.70	1.18	2.61	33806.30	44723.30	0.00	0.00
13	5	SLV	0.36	3488.90	14793.90	1.80	75310.70	1.20	0.53	139106.00	457939.00	0.72	6.31	64264.50	1.23	2.61	34813.40	44723.30	0.00	0.00
13	5	SLV	0.36	3488.90	15169.60	1.80	75310.70	1.20	0.53	139660.00	457939.00	0.72	6.31	64264.50	1.24	2.61	34971.30	44723.30	0.00	0.00
13	5	SLV	0.36	3488.90	14793.90	1.80	75310.70	1.20	0.53	139106.00	457939.00	0.72	6.31	64264.50	1.23	2.61	34813.40	44723.30	0.00	0.00

13	5	SLV	0.36	3488.90	15169.60	1.80	75310.70	1.20	0.53	139660.00	457939.00	0.72	6.31	64264.50	1.24	2.61	34971.30	44723.30	0.00	0.00
13	5	SLV	0.36	3488.90	14793.90	1.80	78048.40	1.19	0.53	143331.00	457939.00	0.72	6.31	67002.20	1.22	2.61	36018.40	44723.30	0.00	0.00
13	5	SLV	0.36	3488.90	15169.60	1.80	78048.40	1.19	0.53	143885.00	457939.00	0.72	6.31	67002.20	1.23	2.61	36176.30	44723.30	0.00	0.00
13	5	SLV	0.36	3488.90	14793.90	1.80	78048.40	1.19	0.53	143331.00	457939.00	0.72	6.31	67002.20	1.22	2.61	36018.40	44723.30	0.00	0.00
13	5	SLV	0.36	3488.90	15169.60	1.80	78048.40	1.19	0.53	143885.00	457939.00	0.72	6.31	67002.20	1.23	2.61	36176.30	44723.30	0.00	0.00
13	7	SLV	0.36	3488.90	14793.90	1.80	75310.70	1.20	0.53	139106.00	457939.00	0.72	6.31	64264.50	1.23	2.61	34813.40	44723.30	0.00	0.00
13	7	SLV	0.36	3488.90	15169.60	1.80	75310.70	1.20	0.53	139660.00	457939.00	0.72	6.31	64264.50	1.24	2.61	34971.30	44723.30	0.00	0.00
13	7	SLV	0.36	3488.90	14793.90	1.80	75310.70	1.20	0.53	139106.00	457939.00	0.72	6.31	64264.50	1.23	2.61	34813.40	44723.30	0.00	0.00
13	7	SLV	0.36	3488.90	15169.60	1.80	75310.70	1.20	0.53	139660.00	457939.00	0.72	6.31	64264.50	1.24	2.61	34971.30	44723.30	0.00	0.00
13	7	SLV	0.36	3488.90	14793.90	1.80	78048.40	1.19	0.53	143331.00	457939.00	0.72	6.31	67002.20	1.22	2.61	36018.40	44723.30	0.00	0.00
13	7	SLV	0.36	3488.90	15169.60	1.80	78048.40	1.19	0.53	143885.00	457939.00	0.72	6.31	67002.20	1.23	2.61	36176.30	44723.30	0.00	0.00
13	7	SLV	0.36	3488.90	14793.90	1.80	78048.40	1.19	0.53	143331.00	457939.00	0.72	6.31	67002.20	1.22	2.61	36018.40	44723.30	0.00	0.00
13	7	SLV	0.36	3488.90	15169.60	1.80	78048.40	1.19	0.53	143885.00	457939.00	0.72	6.31	67002.20	1.23	2.61	36176.30	44723.30	0.00	0.00
13	9	SLU	0.36	0.00	167.55	1.80	114173.00	1.00	0.53	176446.00	457939.00	0.72	6.31	97354.40	1.00	2.61	42922.70	44723.30	0.00	0.00
14	1	SLV	0.36	12098.90	4593.73	1.80	79444.50	1.15	0.53	141260.00	457939.00	0.72	6.31	68964.90	1.18	2.61	35677.10	44723.30	20.36	55192.30
14	1	SLV	0.36	12098.90	5047.10	1.80	79444.50	1.15	0.53	141525.00	457939.00	0.72	6.31	68964.90	1.18	2.61	35752.70	44723.30	20.36	55192.30
14	1	SLV	0.36	11017.00	4593.73	1.80	79444.50	1.14	0.53	139831.00	457939.00	0.72	6.31	68964.90	1.16	2.61	35269.60	44723.30	20.36	55192.30
14	1	SLV	0.36	11017.00	5047.10	1.80	79444.50	1.14	0.53	140118.00	457939.00	0.72	6.31	68964.90	1.16	2.61	35351.40	44723.30	20.36	55192.30
14	1	SLV	0.36	12098.90	4593.73	1.80	80824.60	1.15	0.53	143389.00	457939.00	0.72	6.31	70345.00	1.17	2.61	36284.50	44723.30	20.36	55192.30
14	1	SLV	0.36	12098.90	5047.10	1.80	80824.60	1.15	0.53	143654.00	457939.00	0.72	6.31	70345.00	1.17	2.61	36360.10	44723.30	20.36	55192.30
14	1	SLV	0.36	11017.00	4593.73	1.80	80824.60	1.14	0.53	141961.00	457939.00	0.72	6.31	70345.00	1.16	2.61	35877.10	44723.30	20.36	55192.30
14	1	SLV	0.36	11017.00	5047.10	1.80	80824.60	1.14	0.53	142248.00	457939.00	0.72	6.31	70345.00	1.16	2.61	35958.90	44723.30	20.36	55192.30
14	3	SLV	0.36	12086.00	4411.28	1.80	80233.30	1.15	0.53	142359.00	457939.00	0.72	6.31	69753.70	1.17	2.61	35990.70	44723.30	20.36	55192.30
14	3	SLV	0.36	12086.00	3957.91	1.80	80233.30	1.15	0.53	142124.00	457939.00	0.72	6.31	69753.70	1.17	2.61	35923.70	44723.30	20.36	55192.30
14	3	SLV	0.36	11004.20	4411.28	1.80	80233.30	1.14	0.53	140922.00	457939.00	0.72	6.31	69753.70	1.16	2.61	35580.90	44723.30	20.36	55192.30
14	3	SLV	0.36	11004.20	3957.91	1.80	80233.30	1.14	0.53	140668.00	457939.00	0.72	6.31	69753.70	1.16	2.61	35508.30	44723.30	20.36	55192.30
14	3	SLV	0.36	12086.00	4411.28	1.80	80035.80	1.15	0.53	142054.00	457939.00	0.72	6.31	69556.20	1.17	2.61	35903.70	44723.30	20.36	55192.30
14	3	SLV	0.36	12086.00	3957.91	1.80	80035.80	1.15	0.53	141820.00	457939.00	0.72	6.31	69556.20	1.17	2.61	35836.80	44723.30	20.36	55192.30
14	3	SLV	0.36	11004.20	4411.28	1.80	80035.80	1.14	0.53	140618.00	457939.00	0.72	6.31	69556.20	1.16	2.61	35494.00	44723.30	20.36	55192.30
14	3	SLV	0.36	11004.20	3957.91	1.80	80035.80	1.14	0.53	140363.00	457939.00	0.72	6.31	69556.20	1.16	2.61	35421.30	44723.30	20.36	55192.30
14	5	SLV	0.36	4027.87	14877.00	1.80	78731.10	1.19	0.53	144686.00	457939.00	0.72	6.31	68251.60	1.22	2.61	36654.50	44723.30	20.36	55192.30
14	5	SLV	0.36	4027.87	15330.40	1.80	78731.10	1.20	0.53	145350.00	457939.00	0.72	6.31	68251.60	1.23	2.61	36843.70	44723.30	20.36	55192.30
14	5	SLV	0.36	2945.99	14877.00	1.80	78731.10	1.19	0.53	144350.00	457939.00	0.72	6.31	68251.60	1.22	2.61	36558.60	44723.30	20.36	55192.30
14	5	SLV	0.36	2945.99	15330.40	1.80	78731.10	1.19	0.53	145023.00	457939.00	0.72	6.31	68251.60	1.22	2.61	36750.60	44723.30	20.36	55192.30
14	5	SLV	0.36	4027.87	14877.00	1.80	81537.90	1.18	0.53	149018.00	457939.00	0.72	6.31	71058.40	1.21	2.61	37889.90	44723.30	20.36	55192.30
14	5	SLV	0.36	4027.87	15330.40	1.80	81537.90	1.19	0.53	149681.00	457939.00	0.72	6.31	71058.40	1.22	2.61	38079.10	44723.30	20.36	55192.30
14	5	SLV	0.36	2945.99	14877.00	1.80	81537.90	1.18	0.53	148682.00	457939.00	0.72	6.31	71058.40	1.21	2.61	37794.00	44723.30	20.36	55192.30
14	5	SLV	0.36	2945.99	15330.40	1.80	81537.90	1.19	0.53	149355.00	457939.00	0.72	6.31	71058.40	1.21	2.61	37986.00	44723.30	20.36	55192.30
14	7	SLV	0.36	2903.06	14686.30	1.80	78908.50	1.19	0.53	144330.00	457939.00	0.72	6.31	68429.00	1.21	2.61	36552.80	44723.30	20.36	55192.30
14	7	SLV	0.36	2903.06	15139.70	1.80	78908.50	1.19	0.53	145003.00	457939.00	0.72	6.31	68429.00	1.22	2.61	36744.70	44723.30	20.36	55192.30
14	7	SLV	0.36	3984.93	14686.30	1.80	78908.50	1.19	0.53	144666.00	457939.00	0.72	6.31	68429.00	1.22	2.61	36648.60	44723.30	20.36	55192.30
14	7	SLV	0.36	3984.93	15139.70	1.80	78908.50	1.19	0.53	145329.00	457939.00	0.72	6.31	68429.00	1.22	2.61	36837.90	44723.30	20.36	55192.30
14	7	SLV	0.36	2903.06	14686.30	1.80	81360.50	1.18	0.53	148114.00	457939.00	0.72	6.31	70881.00	1.21	2.61	37632.00	44723.30	20.36	55192.30
14	7	SLV	0.36	2903.06	15139.70	1.80	81360.50	1.19	0.53	148787.00	457939.00	0.72	6.31	70881.00	1.21	2.61	37824.00	44723.30	20.36	55192.30
14	7	SLV	0.36	3984.93	14686.30	1.80	81360.50	1.18	0.53	148450.00	457939.00	0.72	6.31	70881.00	1.21	2.61	37727.90	44723.30	20.36	55192.30
14	7	SLV	0.36	3984.93	15139.70	1.80	81360.50	1.19	0.53	149113.00	457939.00	0.72	6.31	70881.00	1.22	2.61	37917.10	44723.30	20.36	55192.30
14	9	SLU	0.36	816.38	230.73	1.80	119323.00	1.01	0.53	185360.00	457939.00	0.72	6.31	103296.00	1.01	2.61	45813.50	44723.30	20.36	55192.30
15	1	SLV	0.36	6573.58	3744.57	0.90	43923.20	1.16	0.53	157525.00	457939.00	0.61	2.82	35700.30	1.22	2.61	43109.70	52615.70	26.14	101733.00
15	1	SLV	0.36	6573.58	3635.75	0.90	43923.20	1.16	0.53	157357.00	457939.00	0.61	2.82	35700.30	1.22	2.61	43048.80	52615.70	26.14	101733.00
15	1	SLV	0.36	19982.50	3744.57	0.90	43923.20	1.43	0.53	193896.00	457939.00	0.50	2.48	37151.40	1.65	2.61	68892.80	63890.40	26.14	118688.00
15	1	SLV	0.36	19982.50	3635.75	0.90	43923.20	1.43	0.53	193833.00	457939.00	0.50	2.48	37151.40	1.65	2.61	68862.60	63890.40	26.14	118688.00
15	1	SLV	0.36	6573.58	3744.57	0.90	49942.40	1.14	0.53	176103.00	457939.00	0.68	3.04	40752.20	1.18	2.61	43953.10	47077.20	26.14	92963.20
15	1	SLV	0.36	6573.58	3635.75	0.90	49942.40	1.14	0.53	175935.00	457939.00	0.68	3.04	40752.20	1.18	2.61	43901.50	47077.20	26.14	92963.20
15	1	SLV	0.36	19982.50	3744.57	0.90	49942.40	1.38	0.53	212474.00	457939.00	0.54	2.59	42687.00	1.54	2.61	70636.80	59631.10	26.14	112414.00
15	1	SLV	0.36	19982.50	3635.75	0.90	49942.40	1.38	0.53	212411.00	457939.00	0.54	2.59	42687.00	1.54	2.61	70609.40	59631.10	26.14	112414.00
15	3	SLV	0.36	6633.81	2499.62	0.90	44406.70	1.15	0.53	157500.00	457939.00	0.61	2.82	36183.90	1.21	2.61	43033.40	52615.70	26.14	101733.00
15	3	SLV	0.36	6633.81	2608.45	0.90	44406.70	1.15	0.53	157623.00	457939.00	0.61	2.82	36183.90	1.21	2.61	43078.40	52615.70	26.14	101733.00
15	3	SLV	0.36	19922.30	2499.62	0.90	44406.70	1.42	0.53	194607.00	457939.00	0.50	2.48	37635.00	1.64	2.61	69060.60	63890.40	26.14	118688.00
15	3	SLV	0.36	19922.30	2608.45	0.90	44406.70	1.42	0.53	194651.00	457939.00	0.50	2.48	37635.00	1.64	2.61	69081.80	63890.40	26.14	118688.00
15	3	SLV	0.36	6633.81	2499.62	0.90	49458.90	1.13	0.53	173093.00	457939.00	0.68	3.04	40268.60	1.17	2.61	43043.50	47077.20	26.14	92963.20
15	3	SLV	0.36	6633.81	2608.45	0.90	49458.90	1.13	0.53	173216.00	457939.00	0.68	3.04	40268.60	1.17	2.61	43081.60	47077.20	26.14	92963.20
15	3	SLV	0.36	19922.30	2499.62	0.90	49458.90	1.38	0.53	210200.00	457939.00	0.54	2.59	42203.40	1.54	2.61	69778.70	59631.10	26.14	112414.00
15	3	SLV	0.36	19922.30	2608.45	0.90	49458.90	1.38	0.53	210244.00	457939.00	0.54	2.59	42203.40	1.54	2.61	69798.00	59631.10	26.14	112414.00
15	5	SLV	0.36	11175.40	10631.80	0.90	45296.50	1.32	0.53	185133.00	457939.00	0.54	2.59	38041.00	1.48	2.61	60223.40	59631.10	26.14	112414.00
15	5	SLV	0.36	11175.40	10523.00	0.90	45296.50	1.32	0.53	184901.00	457939.00	0.54	2.59	38041.00	1.47	2.61	60122.60	59631.10	26.14	112414.00
15	5	SLV	0.36	15380.70	10631.80	0.90	45296.50	1.39	0.53	194307.00	457939.00	0.50	2.48	38524.70	1.59	2.61	68768.00	63890.40	26.14	118688.00
15	5	SLV	0.36	15380.70	10523.00	0.90	45296.50	1.39	0.53	194114.00	457939.00	0.50	2.48	38524.70	1.59	2.61	68675.50	63890.40	26.14	118688.00
15	5	SLV	0.36	11175.40	10631.80	0.90	48569.10	1.30	0.53	195233.00	457939.00	0.54	2.59	41313.60	1.44	2.61	63731.00	59631.10	26.14	112414.00
15	5	SLV	0.36	11175.40	10523.00	0.90	48569.10	1.30	0.53	195001.00	457939.00	0.54	2.59	41313.60	1.44	2.61	63630.20	59631.10	26.14	112414.00
15	5	SLV	0.36	15380.70	10631.80	0.90	48569.10	1.36	0.53	204407.00	457939.00	0.54	2.59	41313.60	1.53	2.61	67622.40	59631.10	26.14	112414.00
15	5	SLV	0.36	15380.70	10523.00	0.90	48569.10	1.36	0.53	204214.00	457939.00	0.54	2.59	41313.60	1.53	2.61	67538.40	59631.10	26.14	112414.00
15	7	SLV	0.36	15180.00	10291.00	0.90	46957.20	1.37	0.53	198364.00	457939.00	0.50	2.48	40185.40	1.56	2.61	70123.70	63890.40	26.14	118688.00
15	7	SLV	0.36	15180.00	10182.20	0.90	46957.20	1.37	0.53	198174.00	457939.00	0.50	2.48	40185.40	1.56	2.61	70032.40	63890.40	26.14	118688.00
15	7	SLV	0.36	11376.10	10291.00	0.90	46957.20	1.31	0.53	189950.00	457939.00	0.54	2.59	39701.70	1.45	2.61	61864.90	59631.10	26.14	112414.00
15	7	SLV	0.36	11376.10	10182.20	0.90	46957.20	1.31	0.53	189724.00	457939.00	0.54	2.59	39701.70	1.45	2.61	61766.60	59631.10	26.14	112414.00
15	7	SLV	0.36	15180.00	10291.00	0.90	46908.40	1.37	0.53	198213.00	457939.00	0.50	2.48	40136.60	1.56	2.61	70069.00	63890.40	26.14	118688.00
15	7	SLV	0.36	15180.00	10182.20	0.90	46908.40	1.37	0.53	198023.00	457939.00	0.50	2.48	40136.60	1.56	2.61	69977.70	63890.40	26.14	118688.00
15	7	SLV	0.36	11376.10	10291.00	0.90	46908.40	1.31	0.53	189799.00	457939.00	0.54	2.59	39652.90	1.45	2.61	61812.60	59631.10	26.14	112414.00
15	7	SLV	0.36	11376.10	10182.20	0.90	46908.40	1.31	0.53	189573.00	457939.00	0.54	2.59	39652.90	1.45	2.61	61714.30	59631.10	26.14	112414.00
15	9	SLU	0.36	19227.70	197.67	0.90	68211.20	1.26	0.53	265594.00	457939.00	0.58	2.70	56858.40	1.37	2.61	79921.30	55904.10	26.14	106796.00
16	1	SLV	0.36	16627.40	4868.76	0.70	25255.60	1.64	0.53	164292.00	457939.00	0.50	1.49	20178.60	2.03	2.14	76425.50	63890.40	18.10	129460.00
16	1	SLV	0.36	16627.40	10181.50	0.70	25255.60	1.73	0.53	173091.00	457939.00	0.50	1.49	20178.60	2.18	2.14	81898.00	63890.40	18.10	129460.00
16	1	SLV	0.36	4177.37	4868.76	0.70	25255.60	1.24	0.53	124588.00	457939.00	0.61	1.66	19090.70	1.36	2.14	43593.60	52615.70	18.10	112687.00
16	1	SLV	0.36	4177.37	10181.50	0.70	25255.60	1.42	0.53	142632.00	457939.00	0.54	1.55	19816.00	1.67	2.14	59447.30	59631.10	18.10	123291.00
16	1	SLV	0.36	16627.40	4868.76	0.70	32068.60	1.50	0.53	191327.00	457939.00	0.61	1.66	25903.70	1.70	2.14	73830.50	52615.70	18.10	112687.00
16	1	SLV	0.36	16627.40	10181.50	0.70	32068.60	1.57	0.53	200127.00	457939.00	0.58	1.60	26266.40	1.82	2.14	83031.70	55904.10	18.10	117731.00
16	1	SLV	0.36	4177.37	4868.76	0.70	32068.60	1.19	0.53	151624.00	457939.00	0.72	1.83	24815.80	1.25	2.14	47047.10	44723.30	18.10	99990.80
16	1	SLV	0.36	4177.37	10181.50	0.70	32068.60	1.33	0.53	169668.00	457939.00	0.65	1.71	25541.10	1.45	2.14	60139.70	49692.60	18.10	108087.00
16	3	SLV	0.36	15177.90	7486.99	0.70	28440.70	1.56	0.53	175849.00	457939.00	0.54	1.55	23001.10	1.85	2.14	76449.40	59631.10	18.10	123291.00
16	3	SLV	0.36	15177.90	7563.28	0.70	28440.70	1.56	0.53	175986.00	457939.00	0.54	1.55	23001.10	1.85	2.14	76527.40	59631.10	18.10	123291.00
16	3	SLV	0.36	5626.88	7486.99	0.70	28440.70	1.32	0.53	148552.00	457939.00	0.61	1.66	22275.80	1.46	2.14	54335.70	52615.70	18.10	112687.00
16	3	SLV	0.36	5626.88	7563.28	0.70	28440.70	1.32	0.53	148794.00	457939.00	0.61	1.66	22275.80	1.46	2.14	54451.50	52615.70	18.10	112687.00
16	3	SLV	0.36	15177.90	7486.99	0.70	28883.50	1.55	0.53	177606.00	457939.00	0.54	1.55	23443.90	1.83	2.14	77245.00	59631.10	18.10	123291.00
16	3	SLV	0.36	15177.90	7563.28	0.70	28883.50	1.55	0.53	177744.00	457939.00	0.54	1.55	23443.90	1.84	2.14	77323.00	59631.10	18.10	123291.00
16	3	SLV	0.36	5626.88	7486.99	0.70	28883.50	1.31	0.53	150309.00	457939.00	0.61	1.66	22718.60	1.45	2.14	55077.30	52615.70	18.10	112687.00
16	3	SLV	0.36	5626.88	7563.28	0.70	28883.50	1.31	0.53	150551.00	457939.00	0.61	1.66	22718.60	1.45	2.14	55193.00	52615.70	18.10	112687.00
16	5	SLV	0.36	14468.30	2757.23	0.70	22809.40	1.60	0.53	144849.00	457939.00	0.50	1.49	17732.40	1.99	2.14	65943.40	63890.40	18.10	129460.00
16	5	SLV	0.36	14468.30	12293.00	0.70	22809.40	1.79	0.53	162033.00	457939.00	0.47	1.43	18095.10	2.36	2.14	82683.20	68805.10	18.10	136354.00
16	5	SLV	0.36	6336.45	2757.23	0.70	22809.40	1.28	0.53	116182.00	457939.00	0.58	1.60	17007.20	1.45	2.14	42677.30	55904.10	18.10	117731.00
16	5	SLV	0.36	6336.45	12293.00	0.70	22809.40	1.59	0.53	143632.00	457939.00	0.47	1.43	18095.10	2.02	2.14	70680.50	68805.10	18.10	136354.00

16	5	SLV	0.36	14468.30	2757.23	0.70	34514.80	1.40	0.53	191299.00	457939.00	0.65	1.71	27987.30	1.53	2.14	69291.90	49692.60	18.10	108087.00
16	5	SLV	0.36	14468.30	12293.00	0.70	34514.80	1.52	0.53	208483.00	457939.00	0.61	1.66	28349.90	1.72	2.14	81550.50	52615.70	18.10	112687.00
16	5	SLV	0.36	6336.45	2757.23	0.70	34514.80	1.19	0.53	162632.00	457939.00	0.72	1.83	27262.00	1.24	2.14	51262.90	44723.30	18.10	99990.80
16	5	SLV	0.36	6336.45	12293.00	0.70	34514.80	1.39	0.53	190082.00	457939.00	0.65	1.71	27987.30	1.52	2.14	68834.30	49692.60	18.10	108087.00
16	7	SLV	0.36	11168.20	3565.59	0.70	23897.70	1.46	0.53	138219.00	457939.00	0.54	1.55	18458.20	1.73	2.14	57323.60	59631.10	18.10	123291.00
16	7	SLV	0.36	11168.20	11484.70	0.70	23897.70	1.64	0.53	155483.00	457939.00	0.47	1.43	19183.40	2.09	2.14	77631.80	68805.10	18.10	136354.00
16	7	SLV	0.36	9636.60	3565.59	0.70	23897.70	1.40	0.53	132917.00	457939.00	0.54	1.55	18458.20	1.64	2.14	54380.00	59631.10	18.10	123291.00
16	7	SLV	0.36	9636.60	11484.70	0.70	23897.70	1.60	0.53	151811.00	457939.00	0.50	1.49	18820.80	1.99	2.14	69885.70	63890.40	18.10	129460.00
16	7	SLV	0.36	11168.20	3565.59	0.70	33426.40	1.33	0.53	176031.00	457939.00	0.68	1.77	26536.30	1.43	2.14	59423.40	47077.20	18.10	103871.00
16	7	SLV	0.36	11168.20	11484.70	0.70	33426.40	1.46	0.53	193295.00	457939.00	0.61	1.66	27261.50	1.63	2.14	74568.80	52615.70	18.10	112687.00
16	7	SLV	0.36	9636.60	3565.59	0.70	33426.40	1.29	0.53	170730.00	457939.00	0.68	1.77	26536.30	1.38	2.14	57248.00	47077.20	18.10	103871.00
16	7	SLV	0.36	9636.60	11484.70	0.70	33426.40	1.43	0.53	189623.00	457939.00	0.61	1.66	27261.50	1.60	2.14	72831.60	52615.70	18.10	112687.00
16	9	SLU	0.36	14845.30	10323.60	0.70	40500.80	1.42	0.53	228494.00	457939.00	0.58	1.60	32196.70	1.63	2.14	90710.90	55904.10	18.10	117731.00
17	1	SLV	0.36	9845.00	7548.09	1.40	51012.80	1.23	0.53	124521.00	457939.00	0.72	3.66	40470.30	1.29	2.14	39678.60	44723.30	15.83	62613.60
17	1	SLV	0.36	9845.00	13006.20	1.40	51012.80	1.31	0.53	132293.00	457939.00	0.68	3.54	40997.40	1.40	2.14	44917.30	47077.20	15.83	65304.40
17	1	SLV	0.36	10874.40	7548.09	1.40	51012.80	1.25	0.53	126023.00	457939.00	0.72	3.66	40470.30	1.31	2.14	40254.00	44723.30	15.83	62613.60
17	1	SLV	0.36	10874.40	13006.20	1.40	51012.80	1.32	0.53	133435.00	457939.00	0.68	3.54	40997.40	1.41	2.14	45385.40	47077.20	15.83	65304.40
17	1	SLV	0.36	9845.00	7548.09	1.40	54660.30	1.21	0.53	131758.00	457939.00	0.72	3.66	44117.90	1.27	2.14	42450.30	44723.30	15.83	62613.60
17	1	SLV	0.36	9845.00	13006.20	1.40	54660.30	1.29	0.53	139530.00	457939.00	0.72	3.66	44117.90	1.36	2.14	45426.90	44723.30	15.83	62613.60
17	1	SLV	0.36	10874.40	7548.09	1.40	54660.30	1.23	0.53	133261.00	457939.00	0.72	3.66	44117.90	1.28	2.14	43025.70	44723.30	15.83	62613.60
17	1	SLV	0.36	10874.40	13006.20	1.40	54660.30	1.30	0.53	140672.00	457939.00	0.72	3.66	44117.90	1.37	2.14	45864.30	44723.30	15.83	62613.60
17	3	SLV	0.36	9820.02	12457.50	1.40	54447.60	1.28	0.53	138222.00	457939.00	0.72	3.66	43905.20	1.35	2.14	44925.80	44723.30	15.83	62613.60
17	3	SLV	0.36	9820.02	8096.79	1.40	54447.60	1.22	0.53	131985.00	457939.00	0.72	3.66	43905.20	1.27	2.14	42537.30	44723.30	15.83	62613.60
17	3	SLV	0.36	10849.40	12457.50	1.40	54447.60	1.29	0.53	139393.00	457939.00	0.72	3.66	43905.20	1.36	2.14	45374.50	44723.30	15.83	62613.60
17	3	SLV	0.36	10849.40	8096.79	1.40	54447.60	1.24	0.53	133446.00	457939.00	0.72	3.66	43905.20	1.29	2.14	43096.70	44723.30	15.83	62613.60
17	3	SLV	0.36	9820.02	12457.50	1.40	51225.40	1.30	0.53	131829.00	457939.00	0.68	3.54	41210.10	1.38	2.14	44719.40	47077.20	15.83	65304.40
17	3	SLV	0.36	9820.02	8096.79	1.40	51225.40	1.24	0.53	125592.00	457939.00	0.72	3.66	40683.00	1.30	2.14	40088.80	44723.30	15.83	62613.60
17	3	SLV	0.36	10849.40	12457.50	1.40	51225.40	1.31	0.53	133000.00	457939.00	0.68	3.54	41210.10	1.40	2.14	45199.50	47077.20	15.83	65304.40
17	3	SLV	0.36	10849.40	8096.79	1.40	51225.40	1.25	0.53	127053.00	457939.00	0.72	3.66	40683.00	1.31	2.14	40648.20	44723.30	15.83	62613.60
17	5	SLV	0.36	2631.10	2012.47	1.40	47079.80	1.07	0.53	99634.90	457939.00	0.72	3.66	36537.40	1.09	2.14	30147.60	44723.30	15.83	62613.60
17	5	SLV	0.36	2631.10	18541.80	1.40	47079.80	1.39	0.53	129726.00	457939.00	0.61	3.32	38118.80	1.54	2.14	49283.00	52615.70	15.83	71497.90
17	5	SLV	0.36	3660.50	2012.47	1.40	47079.80	1.08	0.53	101201.00	457939.00	0.72	3.66	36537.40	1.11	2.14	30747.60	44723.30	15.83	62613.60
17	5	SLV	0.36	3660.50	18541.80	1.40	47079.80	1.39	0.53	130027.00	457939.00	0.61	3.32	38118.80	1.55	2.14	49425.00	52615.70	15.83	71497.90
17	5	SLV	0.36	2631.10	2012.47	1.40	58593.20	1.05	0.53	122479.00	457939.00	0.72	3.66	48050.80	1.07	2.14	38896.50	44723.30	15.83	62613.60
17	5	SLV	0.36	2631.10	18541.80	1.40	58593.20	1.31	0.53	152571.00	457939.00	0.72	3.66	48050.80	1.38	2.14	50421.20	44723.30	15.83	62613.60
17	5	SLV	0.36	3660.50	2012.47	1.40	58593.20	1.07	0.53	124046.00	457939.00	0.72	3.66	48050.80	1.08	2.14	39496.50	44723.30	15.83	62613.60
17	5	SLV	0.36	3660.50	18541.80	1.40	58593.20	1.31	0.53	152872.00	457939.00	0.72	3.66	48050.80	1.38	2.14	50536.40	44723.30	15.83	62613.60
17	7	SLV	0.36	3577.22	2177.08	1.40	47143.60	1.08	0.53	101364.00	457939.00	0.72	3.66	36601.20	1.11	2.14	30809.70	44723.30	15.83	62613.60
17	7	SLV	0.36	3577.22	18377.20	1.40	47143.60	1.39	0.53	129812.00	457939.00	0.61	3.32	38182.60	1.54	2.14	49315.00	52615.70	15.83	71497.90
17	7	SLV	0.36	2547.83	2177.08	1.40	47143.60	1.07	0.53	99852.20	457939.00	0.72	3.66	36601.20	1.09	2.14	30230.80	44723.30	15.83	62613.60
17	7	SLV	0.36	2547.83	18377.20	1.40	47143.60	1.38	0.53	129516.00	457939.00	0.61	3.32	38182.60	1.54	2.14	49175.50	52615.70	15.83	71497.90
17	7	SLV	0.36	3577.22	2177.08	1.40	58529.40	1.07	0.53	123954.00	457939.00	0.72	3.66	47987.00	1.08	2.14	39461.60	44723.30	15.83	62613.60
17	7	SLV	0.36	3577.22	18377.20	1.40	58529.40	1.31	0.53	152403.00	457939.00	0.72	3.66	47987.00	1.38	2.14	50356.90	44723.30	15.83	62613.60
17	7	SLV	0.36	2547.83	2177.08	1.40	58529.40	1.05	0.53	122443.00	457939.00	0.72	3.66	47987.00	1.07	2.14	38882.80	44723.30	15.83	62613.60
17	7	SLV	0.36	2547.83	18377.20	1.40	58529.40	1.31	0.53	152107.00	457939.00	0.72	3.66	47987.00	1.38	2.14	50243.60	44723.30	15.83	62613.60
17	9	SLU	0.36	775.20	14168.90	1.40	75707.00	1.18	0.53	177751.00	457939.00	0.72	3.66	60340.20	1.23	2.14	56398.90	44723.30	15.83	62613.60
18	1	SLV	0.36	10483.80	7559.15	1.40	48540.20	1.25	0.53	120554.00	457939.00	0.68	3.54	38249.50	1.33	2.14	39948.30	47077.20	15.83	65304.40
18	1	SLV	0.36	10483.80	12510.70	1.40	48540.20	1.32	0.53	127329.00	457939.00	0.65	3.43	38791.10	1.44	2.14	45128.20	49692.60	15.83	68252.20
18	1	SLV	0.36	10483.80	7559.15	1.40	48540.20	1.25	0.53	120554.00	457939.00	0.68	3.54	38249.50	1.33	2.14	39948.30	47077.20	15.83	65304.40
18	1	SLV	0.36	10483.80	12510.70	1.40	48540.20	1.32	0.53	127329.00	457939.00	0.65	3.43	38791.10	1.44	2.14	45128.20	49692.60	15.83	68252.20
18	1	SLV	0.36	10483.80	7559.15	1.40	51857.20	1.24	0.53	127135.00	457939.00	0.72	3.66	41024.90	1.30	2.14	40459.50	44723.30	15.83	62613.60
18	1	SLV	0.36	10483.80	12510.70	1.40	51857.20	1.30	0.53	133910.00	457939.00	0.68	3.54	41566.50	1.39	2.14	45338.20	47077.20	15.83	65304.40
18	1	SLV	0.36	10483.80	7559.15	1.40	51857.20	1.24	0.53	127135.00	457939.00	0.72	3.66	41024.90	1.30	2.14	40459.50	44723.30	15.83	62613.60
18	1	SLV	0.36	10483.80	12510.70	1.40	51857.20	1.30	0.53	133910.00	457939.00	0.68	3.54	41566.50	1.39	2.14	45338.20	47077.20	15.83	65304.40
18	3	SLV	0.36	10483.80	12510.70	1.40	51857.20	1.30	0.53	133910.00	457939.00	0.68	3.54	41566.50	1.39	2.14	45338.20	47077.20	15.83	65304.40
18	3	SLV	0.36	10483.80	7559.15	1.40	51857.20	1.24	0.53	127135.00	457939.00	0.72	3.66	41024.90	1.30	2.14	40459.50	44723.30	15.83	62613.60
18	3	SLV	0.36	10483.80	12510.70	1.40	51857.20	1.30	0.53	133910.00	457939.00	0.68	3.54	41566.50	1.39	2.14	45338.20	47077.20	15.83	65304.40
18	3	SLV	0.36	10483.80	7559.15	1.40	51857.20	1.24	0.53	127135.00	457939.00	0.72	3.66	41024.90	1.30	2.14	40459.50	44723.30	15.83	62613.60
18	3	SLV	0.36	10483.80	12510.70	1.40	48540.20	1.32	0.53	127329.00	457939.00	0.65	3.43	38791.10	1.44	2.14	45128.20	49692.60	15.83	68252.20
18	3	SLV	0.36	10483.80	7559.15	1.40	48540.20	1.25	0.53	120554.00	457939.00	0.68	3.54	38249.50	1.33	2.14	39948.30	47077.20	15.83	65304.40
18	3	SLV	0.36	10483.80	12510.70	1.40	48540.20	1.32	0.53	127329.00	457939.00	0.65	3.43	38791.10	1.44	2.14	45128.20	49692.60	15.83	68252.20
18	3	SLV	0.36	10483.80	7559.15	1.40	48540.20	1.25	0.53	120554.00	457939.00	0.68	3.54	38249.50	1.33	2.14	39948.30	47077.20	15.83	65304.40
18	5	SLV	0.36	3145.14	1782.38	1.40	44670.40	1.08	0.53	95376.70	457939.00	0.72	3.66	33838.10	1.10	2.14	28296.50	44723.30	15.83	62613.60
18	5	SLV	0.36	3145.14	18287.40	1.40	44670.40	1.41	0.53	124597.00	457939.00	0.58	3.20	36004.50	1.60	2.14	49835.40	55904.10	15.83	75091.70
18	5	SLV	0.36	3145.14	1782.38	1.40	44670.40	1.08	0.53	95376.70	457939.00	0.72	3.66	33838.10	1.10	2.14	28296.50	44723.30	15.83	62613.60
18	5	SLV	0.36	3145.14	18287.40	1.40	44670.40	1.41	0.53	124597.00	457939.00	0.58	3.20	36004.50	1.60	2.14	49835.40	55904.10	15.83	75091.70
18	5	SLV	0.36	3145.14	1782.38	1.40	55727.00	1.06	0.53	117314.00	457939.00	0.72	3.66	44894.70	1.08	2.14	36698.20	44723.30	15.83	62613.60
18	5	SLV	0.36	3145.14	18287.40	1.40	55727.00	1.33	0.53	146534.00	457939.00	0.68	3.54	45436.30	1.42	2.14	50416.20	47077.20	15.83	65304.40
18	5	SLV	0.36	3145.14	1782.38	1.40	55727.00	1.06	0.53	117314.00	457939.00	0.72	3.66	44894.70	1.08	2.14	36698.20	44723.30	15.83	62613.60
18	5	SLV	0.36	3145.14	18287.40	1.40	55727.00	1.33	0.53	146534.00	457939.00	0.68	3.54	45436.30	1.42	2.14	50416.20	47077.20	15.83	65304.40
18	7	SLV	0.36	3145.14	1782.38	1.40	44670.40	1.08	0.53	95376.60	457939.00	0.72	3.66	33838.10	1.10	2.14	28296.40	44723.30	15.83	62613.60
18	7	SLV	0.36	3145.14	18287.40	1.40	44670.40	1.41	0.53	124597.00	457939.00	0.58	3.20	36004.50	1.60	2.14	49835.40	55904.10	15.83	75091.70
18	7	SLV	0.36	3145.14	1782.38	1.40	44670.40	1.08	0.53	95376.60	457939.00	0.72	3.66	33838.10	1.10	2.14	28296.40	44723.30	15.83	62613.60
18	7	SLV	0.36	3145.14	18287.40	1.40	44670.40	1.41	0.53	124597.00	457939.00	0.58	3.20	36004.50	1.60	2.14	49835.40	55904.10	15.83	75091.70
18	7	SLV	0.36	3145.14	1782.38	1.40	55727.00	1.06	0.53	117314.00	457939.00	0.72	3.66	44894.70	1.08	2.14	36698.20	44723.30	15.83	62613.60
18	7	SLV	0.36	3145.14	18287.40	1.40	55727.00	1.33	0.53	146534.00	457939.00	0.68	3.54	45436.30	1.42	2.14	50416.20	47077.20	15.83	65304.40
18	7	SLV	0.36	3145.14	1782.38	1.40	55727.00	1.06	0.53	117314.00	457939.00	0.72	3.66	44894.70	1.08	2.14	36698.20	44723.30	15.83	62613.60
18	7	SLV	0.36	3145.14	18287.40	1.40	55727.00	1.33	0.53	146534.00	457939.00	0.68	3.54	45436.30	1.42	2.14	50416.20	47077.20	15.83	65304.40
18	9	SLU	0.36	0.00	13829.60	1.40	71929.60	1.19	0.53	169561.00	457939.00	0.72	3.66	56158.10	1.24	2.14	52954.60	44723.30	15.83	62613.60
19	1	SLV	0.36	10874.40	7548.07	1.40	51012.80	1.25	0.53	126023.00	457939.00	0.72	3.66	40470.30	1.31	2.14	40253.90	44723.30	15.83	62613.60
19	1	SLV	0.36	10874.40	13006.20	1.40	51012.80	1.32	0.53	133435.00	457939.00	0.68	3.54	40997.40	1.41	2.14	45385.30	47077.20	15.83	65304.40
19	1	SLV	0.36	9845.00	7548.07	1.40	51012.80	1.23	0.53	124521.00	457939.00	0.72	3.66	40470.30	1.29	2.14	39678.50	44723.30	15.83	62613.60
19	1	SLV	0.36	9845.00	13006.20	1.40	51012.80	1.31	0.53	132293.00	457939.00	0.68	3.54	40997.40	1.40	2.14	44917.30	47077.20	15.83	65304.40
19	1	SLV	0.36	10874.40	7548.07	1.40	54660.30	1.23	0.53	133260.00	457939.00	0.72	3.66	44117.90	1.28	2.14	43025.70	44723.30	15.83	62613.60
19	1	SLV	0.36	10874.40	13006.20	1.40	54660.30	1.30	0.53	140672.00	457939.00	0.72	3.66	44117.90	1.37	2.14	45864.20	44723.30	15.83	62613.60
19	1	SLV	0.36	9845.00	7548.07	1.40	54660.30	1.21	0.53	131758.00	457939.00	0.72	3.66	44117.90	1.27	2.14	42450.30	44723.30	15.83	62613.60
19	1	SLV	0.36	9845.00	13006.20	1.40	54660.30	1.29	0.53	139530.00	457939.00	0.72	3.66	44117.90	1.36	2.14	45426.90	44723.30	15.83	62613.60
19	3	SLV	0.36	10849.40	12457.50	1.40	54447.60	1.29	0.53	139393.00	457939.00	0.72	3.66	43905.20	1.36	2.14	45374.50	44723.30	15.83	62613.60
19	3	SLV	0.36	10849.40	8096.78	1.40	54447.60	1.24	0.53	133446.00	457939.00	0.72	3.66	43905.20	1.29	2.14	43096.70	44723.30	15.83	62613.60
19	3	SLV	0.36	9820.01	12457.50	1.40	54447.60	1.28	0.53	138222.00	457939.00	0.72	3.66	43905.20	1.35	2.14	44925.80	44723.30	15.83	62613.60
19	3	SLV	0.36	9820.01	8096.78	1.40	54447.60	1.22	0.53	131985.00	457939.00	0.72	3.66	43905.20	1.27	2.14	42537.30	44723.30	15.83	62613.60
19	3	SLV	0.36	10849.40	12457.50	1.40	51225.40	1.31	0.53	133000.00	457939.00	0.68	3.54	41210.10	1.40	2.14	45199.50	47077.20	15.83	65304.40
19	3	SLV	0.36	10849.40	8096.78	1.40	51225.40	1.25	0.53	127052.00	457939.00	0.72	3.66	40683.00	1.31	2.14	40648.10	44723.30	15.83	62613.60
19	3	SLV	0.36	9820.01	12457.50	1.40	51225.40	1.30	0.53	131828.00	457939.00	0.68	3.54	41210.10	1.38	2.14	44719.30	47077.20	15.83	65304.40
19	3	SLV	0.36	9820.01	8096.78	1.40	51225.40	1.24	0.53	125592.00	457939.00	0.72	3.66	40683.00	1.30	2.14	40088.70	44723.30	15.83	62613.60
19	5	SLV	0.36	3660.50	2012.46	1.40	47079.80	1.08	0.53	101201.00	457939.00	0.72	3.66	36537.40	1.11	2.14	30747.50	44723.30	15.83	62613.60
19	5	SLV	0.36	3660.50	18541.80	1.40	47079.80	1.39	0.53	130027.00	457939.00	0.61	3.32	38118.80	1.55	2.14	49424.90	52615.70	15.83	71497.90
19	5	SLV	0.36	2631.10	2012.46	1.40	47079.80	1.07	0.53	99634.80	457939.00	0.72	3.66	36537.40	1.09	2.14	30147.60	44723.30	15.83	62613.60
19	5	SLV	0.36	2631.10	18541.80	1.40	47079.80	1.39	0.53	129726.00	457939.00	0.61	3.32	38118.80	1.54	2.14	49282.90	52615.70	15.83	71497.90
19	5	SLV	0.36	3660.50	2012.46	1.40	58593.20	1.07	0.53	124045.00	457939.00	0.72	3.66	48050.80	1.08	2.14	39496.50	44723.30	15.83	62613.60

19	5	SLV	0.36	3660.50	18541.80	1.40	58593.20	1.31	0.53	152871.00	457939.00	0.72	3.66	48050.80	1.38	2.14	50536.40	44723.30	15.83	62613.60
19	5	SLV	0.36	2631.10	2012.46	1.40	58593.20	1.05	0.53	122479.00	457939.00	0.72	3.66	48050.80	1.07	2.14	38896.50	44723.30	15.83	62613.60
19	5	SLV	0.36	2631.10	18541.80	1.40	58593.20	1.31	0.53	152570.00	457939.00	0.72	3.66	48050.80	1.38	2.14	50421.10	44723.30	15.83	62613.60
19	7	SLV	0.36	2547.82	2177.07	1.40	47143.60	1.07	0.53	99852.00	457939.00	0.72	3.66	36601.20	1.09	2.14	30230.80	44723.30	15.83	62613.60
19	7	SLV	0.36	2547.82	18377.20	1.40	47143.60	1.38	0.53	129516.00	457939.00	0.61	3.32	38182.60	1.54	2.14	49175.40	52615.70	15.83	71497.90
19	7	SLV	0.36	3577.22	2177.07	1.40	47143.60	1.08	0.53	101363.00	457939.00	0.72	3.66	36601.20	1.11	2.14	30809.60	44723.30	15.83	62613.60
19	7	SLV	0.36	3577.22	18377.20	1.40	47143.60	1.39	0.53	129812.00	457939.00	0.61	3.32	38182.60	1.54	2.14	49314.90	52615.70	15.83	71497.90
19	7	SLV	0.36	2547.82	2177.07	1.40	58529.40	1.05	0.53	122443.00	457939.00	0.72	3.66	47987.00	1.07	2.14	38882.70	44723.30	15.83	62613.60
19	7	SLV	0.36	2547.82	18377.20	1.40	58529.40	1.31	0.53	152107.00	457939.00	0.72	3.66	47987.00	1.38	2.14	50243.60	44723.30	15.83	62613.60
19	7	SLV	0.36	3577.22	2177.07	1.40	58529.40	1.07	0.53	123954.00	457939.00	0.72	3.66	47987.00	1.08	2.14	39461.60	44723.30	15.83	62613.60
19	7	SLV	0.36	3577.22	18377.20	1.40	58529.40	1.31	0.53	152402.00	457939.00	0.72	3.66	47987.00	1.38	2.14	50356.80	44723.30	15.83	62613.60
19	9	SLU	0.36	775.21	14168.90	1.40	75707.00	1.18	0.53	177751.00	457939.00	0.72	3.66	60340.10	1.23	2.14	56398.80	44723.30	15.83	62613.60
20	1	SLV	0.36	4177.37	4868.76	0.70	25255.60	1.24	0.53	124589.00	457939.00	0.61	1.66	19090.70	1.36	2.14	43593.60	52615.70	18.10	112687.00
20	1	SLV	0.36	4177.37	10181.50	0.70	25255.60	1.42	0.53	142632.00	457939.00	0.54	1.55	19816.00	1.67	2.14	59447.40	59631.10	18.10	123291.00
20	1	SLV	0.36	16627.40	4868.76	0.70	25255.60	1.64	0.53	164292.00	457939.00	0.50	1.49	20178.60	2.03	2.14	76425.60	63890.40	18.10	129460.00
20	1	SLV	0.36	16627.40	10181.50	0.70	25255.60	1.73	0.53	173091.00	457939.00	0.50	1.49	20178.60	2.18	2.14	81898.10	63890.40	18.10	129460.00
20	1	SLV	0.36	4177.37	4868.76	0.70	32068.60	1.19	0.53	151624.00	457939.00	0.72	1.83	24815.80	1.25	2.14	47047.20	44723.30	18.10	99990.80
20	1	SLV	0.36	4177.37	10181.50	0.70	32068.60	1.33	0.53	169668.00	457939.00	0.65	1.71	25541.10	1.45	2.14	60139.80	49692.60	18.10	108087.00
20	1	SLV	0.36	16627.40	4868.76	0.70	32068.60	1.50	0.53	191328.00	457939.00	0.61	1.66	25903.70	1.70	2.14	73830.50	52615.70	18.10	112687.00
20	1	SLV	0.36	16627.40	10181.50	0.70	32068.60	1.57	0.53	200127.00	457939.00	0.58	1.60	26266.40	1.82	2.14	83031.70	55904.10	18.10	117731.00
20	3	SLV	0.36	5626.88	7487.00	0.70	28440.70	1.32	0.53	148553.00	457939.00	0.61	1.66	22275.80	1.46	2.14	54335.80	52615.70	18.10	112687.00
20	3	SLV	0.36	5626.88	7563.28	0.70	28440.70	1.32	0.53	148794.00	457939.00	0.61	1.66	22275.80	1.46	2.14	54451.50	52615.70	18.10	112687.00
20	3	SLV	0.36	15177.90	7487.00	0.70	28440.70	1.56	0.53	175850.00	457939.00	0.54	1.55	23001.10	1.85	2.14	76449.40	59631.10	18.10	123291.00
20	3	SLV	0.36	15177.90	7563.28	0.70	28440.70	1.56	0.53	175987.00	457939.00	0.54	1.55	23001.10	1.85	2.14	76527.40	59631.10	18.10	123291.00
20	3	SLV	0.36	5626.88	7487.00	0.70	28883.50	1.31	0.53	150310.00	457939.00	0.61	1.66	22718.60	1.45	2.14	55077.30	52615.70	18.10	112687.00
20	3	SLV	0.36	5626.88	7563.28	0.70	28883.50	1.31	0.53	150551.00	457939.00	0.61	1.66	22718.60	1.45	2.14	55193.10	52615.70	18.10	112687.00
20	3	SLV	0.36	15177.90	7487.00	0.70	28883.50	1.55	0.53	177607.00	457939.00	0.54	1.55	23443.90	1.83	2.14	77245.10	59631.10	18.10	123291.00
20	3	SLV	0.36	15177.90	7563.28	0.70	28883.50	1.55	0.53	177744.00	457939.00	0.54	1.55	23443.90	1.84	2.14	77323.10	59631.10	18.10	123291.00
20	5	SLV	0.36	6336.44	2757.23	0.70	22809.40	1.28	0.53	116182.00	457939.00	0.58	1.60	17007.20	1.45	2.14	42677.30	55904.10	18.10	117731.00
20	5	SLV	0.36	6336.44	12293.00	0.70	22809.40	1.59	0.53	143633.00	457939.00	0.47	1.43	18095.10	2.02	2.14	70680.60	68805.10	18.10	136355.00
20	5	SLV	0.36	14468.30	2757.23	0.70	22809.40	1.60	0.53	144849.00	457939.00	0.50	1.49	17732.40	1.99	2.14	65943.50	63890.40	18.10	129460.00
20	5	SLV	0.36	14468.30	12293.00	0.70	22809.40	1.79	0.53	162034.00	457939.00	0.47	1.43	18095.10	2.36	2.14	82683.30	68805.10	18.10	136355.00
20	5	SLV	0.36	6336.44	2757.23	0.70	34514.80	1.19	0.53	162632.00	457939.00	0.72	1.83	27262.00	1.24	2.14	51262.90	44723.30	18.10	99990.80
20	5	SLV	0.36	6336.44	12293.00	0.70	34514.80	1.39	0.53	190083.00	457939.00	0.65	1.71	27987.30	1.52	2.14	68834.40	49692.60	18.10	108087.00
20	5	SLV	0.36	14468.30	2757.23	0.70	34514.80	1.40	0.53	191299.00	457939.00	0.65	1.71	27987.30	1.53	2.14	69292.00	49692.60	18.10	108087.00
20	5	SLV	0.36	14468.30	12293.00	0.70	34514.80	1.52	0.53	208484.00	457939.00	0.61	1.66	28349.90	1.72	2.14	81550.60	52615.70	18.10	112687.00
20	7	SLV	0.36	9636.59	3565.58	0.70	23897.70	1.40	0.53	132918.00	457939.00	0.54	1.55	18458.20	1.64	2.14	54380.00	59631.10	18.10	123291.00
20	7	SLV	0.36	9636.59	11484.70	0.70	23897.70	1.60	0.53	151811.00	457939.00	0.50	1.49	18820.80	1.99	2.14	69885.80	63890.40	18.10	129460.00
20	7	SLV	0.36	11168.20	3565.58	0.70	23897.70	1.46	0.53	138220.00	457939.00	0.54	1.55	18458.20	1.73	2.14	57323.60	59631.10	18.10	123291.00
20	7	SLV	0.36	11168.20	11484.70	0.70	23897.70	1.64	0.53	155483.00	457939.00	0.47	1.43	19183.40	2.09	2.14	77631.90	68805.10	18.10	136355.00
20	7	SLV	0.36	9636.59	3565.58	0.70	33426.40	1.29	0.53	170730.00	457939.00	0.68	1.77	26536.30	1.38	2.14	57248.00	47077.20	18.10	103871.00
20	7	SLV	0.36	9636.59	11484.70	0.70	33426.40	1.43	0.53	189623.00	457939.00	0.61	1.66	27261.60	1.60	2.14	72831.70	52615.70	18.10	112687.00
20	7	SLV	0.36	11168.20	3565.58	0.70	33426.40	1.33	0.53	176032.00	457939.00	0.68	1.77	26536.30	1.43	2.14	59423.40	47077.20	18.10	103871.00
20	7	SLV	0.36	11168.20	11484.70	0.70	33426.40	1.46	0.53	193296.00	457939.00	0.61	1.66	27261.60	1.63	2.14	74568.80	52615.70	18.10	112687.00
20	9	SLU	0.36	14845.30	10323.60	0.70	40500.80	1.42	0.53	228494.00	457939.00	0.58	1.60	32196.70	1.63	2.14	90710.90	55904.10	18.10	117731.00