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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
M'ydy	= Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
MRdy	= Momento resistente allo stato limite ultimo intorno all'asse Y
My	= Momento flettente intorno all'asse Y
N	= Sforzo normale
Nu	= Sforzo normale ultimo
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
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
ctg θ	= Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s	= Distanza massima tra le barre

Travata n. 101

Nodi: 1001 1002 1011

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cm ² >	<daN/cm ² >	<daN/cm ² >	<daN/cm ² >		<daN/cm ² >	<daN/cm ² >
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.80	17	SLU	1	461.00	12.57	9.42	12.57	9.42	-1451.88	-10761.60	7.412
4.61	17	SLU	1	80.00	12.57	9.42	12.57	9.42	-2322.29	-10761.60	4.634
5.41	17	SLU	2	519.00	12.57	9.42	12.57	9.42	-1086.38	-10761.60	9.906
10.60	17	SLU	2	0.00	12.57	9.42	12.57	9.42	-446.23	-10761.60	24.117

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CCTCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>			<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	

Relazione di calcolo

0.80	1	SND	1	461.00	12.57	9.42	12.57	9.42	6111.47	7910.63	1.294
4.61	1	SND	1	80.00	12.57	9.42	12.57	9.42	-8089.88	-10370.60	1.282
5.41	13	SND	2	519.00	12.57	9.42	12.57	9.42	-4784.69	-10370.60	2.167
10.60	13	SND	2	0.00	12.57	9.42	12.57	9.42	3729.19	7910.63	2.121

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>
0.80	18	SLE R	1	461.00	12.57	9.42	-979.49	368.15	-155.77	16.21
0.80	20	SLE Q	1	461.00	12.57	9.42	-1007.64	378.73	-160.25	16.67
4.61	18	SLE R	1	80.00	12.57	9.42	-1611.97	605.87	-256.36	26.67
4.61	20	SLE Q	1	80.00	12.57	9.42	-1588.23	596.95	-252.59	26.28
5.41	18	SLE R	2	519.00	12.57	9.42	-825.94	310.44	-131.35	13.67
5.41	20	SLE Q	2	519.00	12.57	9.42	-822.03	308.97	-130.73	13.60
10.60	18	SLE R	2	0.00	12.57	9.42	-356.08	133.84	-56.63	5.89
10.60	20	SLE Q	2	0.00	12.57	9.42	-362.83	136.37	-57.70	6.00

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>
19	0.80	20	SLE Q	1	3	461.00	-1007.64	25.00	108.00	0.50	20.00	88.74	12.57	243.42	378.73	0.11	0.02
20	0.80	19	SLE F	1	3	461.00	-1000.57	25.00	108.00	0.50	20.00	88.74	12.57	243.42	376.07	0.11	0.02
39	4.61	20	SLE Q	1	3	80.00	-1588.23	25.00	108.00	0.50	20.00	88.74	12.57	243.42	596.95	0.17	0.03
40	4.61	19	SLE F	1	3	80.00	-1594.22	25.00	108.00	0.50	20.00	88.74	12.57	243.42	599.20	0.17	0.03
59	5.41	20	SLE Q	2	3	519.00	-822.03	25.00	108.00	0.50	20.00	88.74	12.57	243.42	308.97	0.09	0.01
60	5.41	19	SLE F	2	3	519.00	-822.77	25.00	108.00	0.50	20.00	88.74	12.57	243.42	309.25	0.09	0.01
79	10.60	20	SLE Q	2	3	0.00	-362.83	25.00	108.00	0.50	20.00	88.74	12.57	243.42	136.37	0.04	0.01
80	10.60	19	SLE F	2	3	0.00	-361.35	25.00	108.00	0.50	20.00	88.74	12.57	243.42	135.82	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>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SND	0.80	1.08	0.28	ø8/15 2 br.	6.70	0.40	5624.71	2.50	14456.80	28609.20	14456.80	2.570
1 SND	1.08	4.33	3.25	ø8/15 2 br.	6.70	0.40	5584.37	2.50	14456.80	28609.20	14456.80	2.589
1 SND	4.33	4.61	0.28	ø8/15 2 br.	6.70	0.40	5929.48	2.50	14456.80	28609.20	14456.80	2.438
13 SND	5.41	5.69	0.28	ø8/15 2 br.	6.70	0.40	2301.68	2.50	14456.80	28609.20	14456.80	6.281
13 SND	5.69	10.32	4.63	ø8/15 2 br.	6.70	0.40	2223.28	2.50	14456.80	28609.20	14456.80	6.502
5 SND	10.32	10.60	0.28	ø8/15 2 br.	6.70	0.40	2124.73	2.50	14456.80	28609.20	14456.80	6.804

Travata n. 102

Nodi: 1019 1005 1020

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	516.00	8.04	6.03	8.04	6.03	-321.14	-7056.24	21.972
5.17	17	SLU	1	24.00	8.04	6.03	8.04	6.03	-1202.42	-7056.24	5.868
5.47	17	SLU	2	513.00	8.04	6.03	8.04	6.03	-3592.06	-7056.24	1.964
8.73	17	SLU	2	186.60	8.04	6.03	8.04	6.03	2296.53	5395.16	2.349
10.60	17	SLU	2	0.00	8.04	6.03	8.04	6.03	-3689.83	-7056.24	1.912

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	1	SND	1	516.00	8.04	6.03	8.04	6.03	3708.74	5144.72	1.387
5.17	1	SND	1	24.00	8.04	6.03	8.04	6.03	-4245.30	-6766.82	1.594
5.47	9	SND	2	513.00	8.04	6.03	8.04	6.03	-5276.99	-6766.82	1.282
8.73	9	SND	2	186.60	8.04	6.03	8.04	6.03	2537.24	5144.72	2.028
10.60	1	SND	2	0.00	8.04	6.03	8.04	6.03	-5703.34	-6766.82	1.186

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>
0.25	18	SLE R	1	516.00	8.04	6.03	-266.07	153.93	-48.85	5.51
0.25	20	SLE Q	1	516.00	8.04	6.03	-259.94	150.38	-47.73	5.38
5.17	18	SLE R	1	24.00	8.04	6.03	-883.97	511.39	-162.31	18.31
5.17	20	SLE Q	1	24.00	8.04	6.03	-895.95	518.32	-164.51	18.55
5.47	18	SLE R	2	513.00	8.04	6.03	-2483.39	1436.68	-455.99	51.43
5.47	20	SLE Q	2	513.00	8.04	6.03	-2506.68	1450.16	-460.27	51.91
8.73	18	SLE R	2	186.60	8.04	6.03	1577.49	-271.32	1203.46	34.47
8.73	20	SLE Q	2	186.60	8.04	6.03	1579.50	-271.67	1204.99	34.52

Relazione di calcolo

10.60	18	SLE R	2	0.00	8.04	6.03	-2528.89	1463.00	-464.34	52.37
10.60	20	SLE Q	2	0.00	8.04	6.03	-2509.07	1451.54	-460.70	51.96

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
19	0.25	20	SLE Q	1	3	516.00	-259.94	27.00	109.33	0.50	16.00	105.57	8.04	259.21	150.38	0.04	0.01
20	0.25	19	SLE F	1	3	516.00	-261.94	27.00	109.33	0.50	16.00	105.57	8.04	259.21	151.53	0.04	0.01
39	5.17	20	SLE Q	1	3	24.00	-895.95	27.00	109.33	0.50	16.00	105.57	8.04	259.21	518.32	0.15	0.03
40	5.17	19	SLE F	1	3	24.00	-892.43	27.00	109.33	0.50	16.00	105.57	8.04	259.21	516.29	0.15	0.03
61	5.47	20	SLE Q	2	3	513.00	-2506.68	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1450.16	0.47	0.08
62	5.47	19	SLE F	2	3	513.00	-2499.95	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1446.26	0.42	0.08
85	8.73	20	SLE Q	2	3	186.60	1579.50	27.00	164.00	0.50	16.00	126.99	6.03	275.15	1204.99	0.35	0.08
86	8.73	19	SLE F	2	3	186.60	1578.85	27.00	164.00	0.50	16.00	126.99	6.03	275.15	1204.50	0.35	0.08
109	10.60	20	SLE Q	2	3	0.00	-2509.07	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1451.54	0.47	0.09
110	10.60	19	SLE F	2	3	0.00	-2514.90	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1454.91	0.42	0.08

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>	
9 SND	0.25	0.53	0.28	ø8/15 2 br.	6.70	0.40	1978.40	2.50	14456.80	28609.20	14456.80	7.307
1 SND	0.53	4.88	4.35	ø8/15 2 br.	6.70	0.40	2155.74	2.50	14456.80	28609.20	14456.80	6.706
1 SND	4.88	5.16	0.28	ø8/15 2 br.	6.70	0.40	2234.14	2.50	14456.80	28609.20	14456.80	6.471
17 SLU	5.66	5.94	0.28	ø8/15 2 br.	6.70	0.40	4238.72	2.50	14456.80	28609.20	14456.80	3.411
17 SLU	5.94	10.32	4.38	ø8/15 2 br.	6.70	0.40	4115.49	2.50	14456.80	28609.20	14456.80	3.513
17 SLU	10.32	10.60	0.28	ø8/15 2 br.	6.70	0.40	4617.46	2.50	14456.80	28609.20	14456.80	3.131

Travata n. 103

Nodi: -478 -479 -37674

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	17	SLU	1	368.00	6.03	6.03	6.03	6.03	226.41	5395.92	23.832
5.02	17	SLU	2	3.60	6.03	6.03	6.03	6.03	-2138.45	-5395.92	2.523

Stato limite elastico - Verifiche a flessione/presoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	9	SND	1	368.00	6.03	6.03	6.03	6.03	-1668.94	-5143.73	3.082
5.02	1	SND	2	3.60	6.03	6.03	6.03	6.03	-3199.84	-5143.73	1.607

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>
0.00	18	SLE R	1	368.00	6.03	6.03	141.83	-26.30	108.21	3.25
0.00	20	SLE Q	1	368.00	6.03	6.03	-138.08	105.35	-25.60	3.16
5.02	18	SLE R	2	3.60	6.03	6.03	-1519.08	1158.95	-281.68	34.79
5.02	20	SLE Q	2	3.60	6.03	6.03	-1398.11	1066.66	-259.25	32.02

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
20	0.00	20	SLE Q	1	3	368.00	-138.08	27.00	164.00	0.50	16.00	126.13	6.03	271.92	105.35	0.03	0.01
22	0.00	19	SLE F	1	3	368.00	-105.30	27.00	164.00	0.50	16.00	126.13	6.03	271.92	80.33	0.02	0.01
44	5.02	20	SLE Q	2	3	3.60	-1398.11	27.00	164.00	0.50	16.00	126.13	6.03	271.92	1066.66	0.31	0.07
45	5.02	19	SLE F	2	3	3.60	-1432.57	27.00	164.00	0.50	16.00	126.13	6.03	271.92	1092.96	0.32	0.07

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>	
9 SND	0.04	0.32	0.28	ø8/15 2 br.	6.70	0.40	1284.72	2.50	14456.80	28609.20	14456.80	11.253
17 SLU	0.32	4.74	4.42	ø8/15 2 br.	6.70	0.40	2471.61	2.50	14456.80	28609.20	14456.80	5.849
17 SLU	4.74	5.02	0.28	ø8/15 2 br.	6.70	0.40	2973.58	2.50	14456.80	28609.20	14456.80	4.862

Travata n. 104

Nodi: 1028 -480 -18567 -481 -18594 -18593 -18592 -482 -483 -18961 -18960 -18959 -18958 -484 -19040 -485 1029

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
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Relazione di calcolo

		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.25	17	SLU	2	15.50	6.03	6.03	6.03	6.03	-181.28	-5492.82	30.300
3.27	17	SLU	15	0.00	6.03	6.03	6.03	6.03	-339.11	-5492.82	16.198

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.25	1	SND	2	15.50	6.03	6.03	6.03	6.03	3680.03	5191.67	1.411
3.27	1	SND	15	0.00	6.03	6.03	6.03	6.03	-3664.64	-5191.67	1.417

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>
0.25	18	SLE R	2	15.50	6.03	6.03	-140.28	106.16	-21.80	2.88
0.25	20	SLE Q	2	15.50	6.03	6.03	-128.50	97.24	-19.97	2.63
3.27	18	SLE R	15	0.00	6.03	6.03	-254.61	192.69	-39.58	5.22
3.27	20	SLE Q	15	0.00	6.03	6.03	-263.50	199.41	-40.96	5.40

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
19	0.25	20	SLE Q	2	4	15.50	-128.50	27.00	212.00	0.50	16.00	156.91	6.03	348.70	97.24	0.03	0.01
20	0.25	19	SLE F	2	4	15.50	-130.61	27.00	212.00	0.50	16.00	156.91	6.03	348.70	98.84	0.03	0.01
39	3.27	20	SLE Q	15	4	0.00	-263.50	27.00	212.00	0.50	16.00	156.91	6.03	348.70	199.41	0.06	0.02
40	3.27	19	SLE F	15	4	0.00	-262.01	27.00	212.00	0.50	16.00	156.91	6.03	348.70	198.29	0.06	0.02

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>	
9 SND	0.25	0.53	0.28	ø10/16 2 br.	9.82	0.50	2760.32	2.50	21176.90	35761.60	21176.90	7.672
1 SND	0.53	2.99	2.46	ø10/16 2 br.	9.82	0.50	2751.73	2.50	21176.90	35761.60	21176.90	7.696
1 SND	2.99	3.27	0.28	ø10/16 2 br.	9.82	0.50	2849.73	2.50	21176.90	35761.60	21176.90	7.431

Travata n. 105

Nodi: 1030 -32692 -32691 -27239 -32690 -32689 -32673 -33447 -33446 1033 -33445 -33444 1034 -35197 -34923 -26887 1036 -12042 -12041 -12040 -12039 -12038 1037 1038 1039

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.25	17	SLU	1	112.14	13.57	13.57	13.57	13.57	3214.45	11595.00	3.607
1.37	17	SLU	1	0.00	13.57	13.57	13.57	13.57	-3149.32	-11595.00	3.682
2.55	17	SLU	7	236.43	13.57	13.57	13.57	13.57	-882.76	-11595.00	13.135
4.91	17	SLU	7	0.00	9.42	9.42	9.42	9.42	-496.81	-8192.95	16.491
6.01	17	SLU	13	249.27	9.42	9.42	9.42	9.42	-526.44	-8192.95	15.563
8.50	17	SLU	13	0.00	9.42	9.42	9.42	9.42	-910.71	-8192.95	8.996
10.85	17	SLU	24	327.00	9.42	9.42	9.42	9.42	-279.43	-8192.95	29.320

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.25	1	SND	1	112.14	13.57	13.57	13.57	13.57	10398.50	11221.40	1.079
1.37	1	SND	1	0.00	13.57	13.57	13.57	13.57	-10018.90	-11221.40	1.120
2.55	9	SND	7	236.43	13.57	13.57	13.57	13.57	-6689.02	-11221.40	1.678
4.91	1	SND	7	0.00	9.42	9.42	9.42	9.42	-6465.12	-7893.54	1.221
6.01	9	SND	13	249.27	9.42	9.42	9.42	9.42	-7109.97	-7893.54	1.110
8.50	1	SND	13	0.00	9.42	9.42	9.42	9.42	-7239.35	-7893.54	1.090
10.85	1	SND	24	327.00	9.42	9.42	9.42	9.42	5416.96	7893.54	1.457

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>
0.25	18	SLE R	1	112.14	13.57	13.57	2330.88	-326.79	810.42	34.42
0.25	20	SLE Q	1	112.14	13.57	13.57	2121.23	-297.39	737.53	31.33
1.37	18	SLE R	1	0.00	13.57	13.57	-2275.27	791.09	-318.99	33.60
1.37	20	SLE Q	1	0.00	13.57	13.57	-2083.29	724.34	-292.07	30.77

Relazione di calcolo

2.55	18	SLE R	7	236.43	13.57	13.57	-614.87	213.78	-86.20	9.08
2.55	20	SLE Q	7	236.43	13.57	13.57	-571.33	198.65	-80.10	8.44
4.91	18	SLE R	7	0.00	9.42	9.42	-331.91	164.49	-53.80	6.01
4.91	20	SLE Q	7	0.00	9.42	9.42	-372.67	184.69	-60.41	6.75
6.01	18	SLE R	13	249.27	9.42	9.42	-371.87	184.30	-60.28	6.74
6.01	20	SLE Q	13	249.27	9.42	9.42	-437.64	216.89	-70.94	7.93
8.50	18	SLE R	13	0.00	9.42	9.42	-614.12	304.36	-99.55	11.12
8.50	20	SLE Q	13	0.00	9.42	9.42	-562.45	278.75	-91.17	10.19
10.85	18	SLE R	24	327.00	9.42	9.42	-212.94	105.53	-34.52	3.86
10.85	20	SLE Q	24	327.00	9.42	9.42	-182.81	90.60	-29.63	3.31

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>
19	0.25	20	SLE Q	1	3	112.14	2121.23	23.00	160.00	0.50	24.00	89.54	13.57	246.21	737.53	0.21	0.03
20	0.25	19	SLE F	1	3	112.14	2173.32	23.00	160.00	0.50	24.00	89.54	13.57	246.21	755.64	0.22	0.03
39	1.37	20	SLE Q	1	3	0.00	-2083.29	23.00	160.00	0.50	24.00	89.54	13.57	246.21	724.34	0.21	0.03
40	1.37	19	SLE F	1	3	0.00	-2130.96	23.00	160.00	0.50	24.00	89.54	13.57	246.21	740.91	0.22	0.03
59	2.55	20	SLE Q	7	3	236.43	-571.33	23.00	160.00	0.50	24.00	89.54	13.57	246.21	198.65	0.06	0.01
60	2.55	19	SLE F	7	3	236.43	-582.79	23.00	160.00	0.50	24.00	89.54	13.57	246.21	202.63	0.06	0.01
79	4.91	20	SLE Q	7	3	0.00	-372.67	25.00	162.00	0.50	20.00	104.68	9.42	257.66	184.69	0.05	0.01
80	4.91	19	SLE F	7	3	0.00	-362.15	25.00	162.00	0.50	20.00	104.68	9.42	257.66	179.48	0.05	0.01
99	6.01	20	SLE Q	13	3	249.27	-437.64	25.00	162.00	0.50	20.00	104.68	9.42	257.66	216.89	0.06	0.01
100	6.01	19	SLE F	13	3	249.27	-418.38	25.00	162.00	0.50	20.00	104.68	9.42	257.66	207.35	0.06	0.01
119	8.50	20	SLE Q	13	3	0.00	-562.45	25.00	162.00	0.50	20.00	104.68	9.42	257.66	278.75	0.08	0.01
120	8.50	19	SLE F	13	3	0.00	-577.69	25.00	162.00	0.50	20.00	104.68	9.42	257.66	286.30	0.08	0.01
139	10.85	20	SLE Q	24	3	327.00	-182.81	25.00	162.00	0.50	20.00	104.68	9.42	257.66	90.60	0.03	0.00
140	10.85	19	SLE F	24	3	327.00	-188.93	25.00	162.00	0.50	20.00	104.68	9.42	257.66	93.63	0.03	0.00

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 SND	0.25	0.53	0.28	ø8/10 2 br.	10.05	0.40	17017.60	2.50	21685.20	28609.20	21685.20	1.274
1 SND	0.53	1.09	0.56	ø8/10 2 br.	10.05	0.40	17709.60	2.50	21685.20	28609.20	21685.20	1.224
1 SND	1.09	1.37	0.28	ø8/10 2 br.	10.05	0.40	18054.70	2.50	21685.20	28609.20	21685.20	1.201
9 SND	2.55	2.83	0.28	ø8/10 2 br.	10.05	0.40	6705.42	2.50	21685.20	28609.20	21685.20	3.234
9 SND	2.83	4.63	1.80	ø8/10 2 br.	10.05	0.40	6360.32	2.50	21685.20	28609.20	21685.20	3.409
1 SND	4.63	4.91	0.28	ø8/10 2 br.	10.05	0.40	6537.38	2.50	21685.20	28609.20	21685.20	3.317
9 SND	6.01	6.29	0.28	ø8/10 2 br.	10.05	0.40	6841.33	2.50	21685.20	28609.20	21685.20	3.170
1 SND	6.29	8.22	1.93	ø8/10 2 br.	10.05	0.40	6596.37	2.50	21685.20	28609.20	21685.20	3.287
1 SND	8.22	8.50	0.28	ø8/10 2 br.	10.05	0.40	6941.47	2.50	21685.20	28609.20	21685.20	3.124
9 SND	10.85	11.13	0.28	ø8/10 2 br.	10.05	0.40	3542.53	2.50	21685.20	28609.20	21685.20	6.121
1 SND	11.13	14.08	2.95	ø8/10 2 br.	10.05	0.40	3595.12	2.50	21685.20	28609.20	21685.20	6.032

Travata n. 106

Nodi: 1040 1041 -31944 -31943 -31942 -31941 -31940 -31939 1042 1007 -487 -37675

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	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
2.00	17	SLU	9	381.00	8.04	6.03	8.04	6.03	-1663.49	-7056.24	4.242
5.31	17	SLU	9	50.00	8.04	6.03	8.04	6.03	-1330.69	-7056.24	5.303
5.81	17	SLU	10	368.00	8.04	6.03	8.04	6.03	-4166.47	-7056.24	1.694
8.21	17	SLU	10	127.93	8.04	6.03	8.04	6.03	2276.67	5395.16	2.370
10.61	17	SLU	11	25.00	8.04	6.03	8.04	6.03	-2127.04	-7056.24	3.317

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
2.00	9	SND	9	381.00	8.04	6.03	8.04	6.03	-5715.15	-6766.82	1.184
5.31	1	SND	9	50.00	8.04	6.03	8.04	6.03	-5444.15	-6766.82	1.243
5.81	9	SND	10	368.00	8.04	6.03	8.04	6.03	-5185.01	-6766.82	1.305
8.21	9	SND	10	127.93	8.04	6.03	8.04	6.03	1823.42	5144.72	2.821
10.61	1	SND	11	25.00	8.04	6.03	8.04	6.03	-3660.32	-6766.82	1.849

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
2.00	18	SLE R	9	381.00	8.04	6.03	-1141.04	660.11	-209.51	23.63
2.00	20	SLE Q	9	381.00	8.04	6.03	-1118.11	646.84	-205.30	23.16
5.31	18	SLE R	9	50.00	8.04	6.03	-918.10	531.13	-168.58	19.01
5.31	20	SLE Q	9	50.00	8.04	6.03	-942.25	545.11	-173.01	19.51

5.81	18	SLE R	10	368.00	8.04	6.03	-2882.74	1667.71	-529.32	59.70
5.81	20	SLE Q	10	368.00	8.04	6.03	-2902.25	1679.00	-532.90	60.10
8.21	18	SLE R	10	127.93	8.04	6.03	1569.14	-269.88	1197.09	34.29
8.21	20	SLE Q	10	127.93	8.04	6.03	1566.51	-269.43	1195.08	34.23
10.61	18	SLE R	11	25.00	8.04	6.03	-1440.80	833.52	-264.55	29.84
10.61	20	SLE Q	11	25.00	8.04	6.03	-1429.25	826.85	-262.43	29.60

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>
19	2.00	20	SLE Q	9	3	381.00	-1118.11	27.00	109.33	0.50	16.00	105.57	8.04	259.21	646.84	0.19	0.03
20	2.00	19	SLE F	9	3	381.00	-1126.58	27.00	109.33	0.50	16.00	105.57	8.04	259.21	651.75	0.19	0.03
39	5.31	20	SLE Q	9	3	50.00	-942.25	27.00	109.33	0.50	16.00	105.57	8.04	259.21	545.11	0.16	0.03
40	5.31	19	SLE F	9	3	50.00	-933.32	27.00	109.33	0.50	16.00	105.57	8.04	259.21	539.94	0.16	0.03
59	5.81	20	SLE Q	10	3	368.00	-2902.25	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1679.00	0.58	0.10
60	5.81	19	SLE F	10	3	368.00	-2897.01	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1675.97	0.49	0.09
79	8.21	20	SLE Q	10	3	127.93	1566.51	27.00	164.00	0.50	16.00	126.99	6.03	275.15	1195.08	0.35	0.08
80	8.21	19	SLE F	10	3	127.93	1567.18	27.00	164.00	0.50	16.00	126.99	6.03	275.15	1195.60	0.35	0.08
103	10.61	20	SLE Q	11	3	25.00	-1429.25	27.00	109.33	0.50	16.00	105.57	8.04	259.21	826.85	0.24	0.04
104	10.61	19	SLE F	11	3	25.00	-1432.40	27.00	109.33	0.50	16.00	105.57	8.04	259.21	828.67	0.24	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.
9 SND	2.00	2.28	0.28	ø8/15 2 br.	6.70	0.40	4841.83	2.50	14456.80	28609.20	14456.80	2.986
9 SND	2.28	5.03	2.75	ø8/15 2 br.	6.70	0.40	4496.73	2.50	14456.80	28609.20	14456.80	3.215
1 SND	5.03	5.31	0.28	ø8/15 2 br.	6.70	0.40	4735.58	2.50	14456.80	28609.20	14456.80	3.053
17 SLU	5.81	6.09	0.28	ø8/15 2 br.	6.70	0.40	4728.61	2.50	14456.80	28609.20	14456.80	3.057
17 SLU	6.09	10.33	4.24	ø8/15 2 br.	6.70	0.40	4226.64	2.50	14456.80	28609.20	14456.80	3.420
17 SLU	10.33	10.61	0.28	ø8/15 2 br.	6.70	0.40	3879.10	2.50	14456.80	28609.20	14456.80	3.727

Travata n. 107

Nodi: 1043 1044 1045

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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	17	SLU	1	175.00	9.42	9.42	9.42	9.42	-121.66	-8192.95	67.346
3.27	17	SLU	2	25.00	9.42	9.42	9.42	9.42	-650.55	-8192.95	12.594

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.20	13	SND	1	175.00	9.42	9.42	9.42	9.42	-1973.11	-7893.54	4.001
3.27	13	SND	2	25.00	9.42	9.42	9.42	9.42	-7120.40	-7893.54	1.109

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	18	SLE R	1	175.00	9.42	9.42	-93.00	46.09	-15.08	1.68
0.20	20	SLE Q	1	175.00	9.42	9.42	-93.29	46.23	-15.12	1.69
3.27	18	SLE R	2	25.00	9.42	9.42	-486.02	240.87	-78.78	8.80
3.27	20	SLE Q	2	25.00	9.42	9.42	-498.19	246.90	-80.76	9.02

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>
19	0.20	20	SLE Q	1	3	175.00	-93.29	25.00	162.00	0.50	20.00	104.68	9.42	257.66	46.23	0.01	0.00
20	0.20	19	SLE F	1	3	175.00	-92.99	25.00	162.00	0.50	20.00	104.68	9.42	257.66	46.09	0.01	0.00
39	3.27	20	SLE Q	2	3	25.00	-498.19	25.00	162.00	0.50	20.00	104.68	9.42	257.66	246.90	0.07	0.01
40	3.27	19	SLE F	2	3	25.00	-495.91	25.00	162.00	0.50	20.00	104.68	9.42	257.66	245.77	0.07	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.
13 SND	0.20	0.48	0.28	ø8/15 2 br.	6.70	0.40	3119.82	2.50	14456.80	28609.20	14456.80	4.634
13 SND	0.48	2.99	2.51	ø8/15 2 br.	6.70	0.40	9374.17	2.50	14456.80	28609.20	14456.80	1.542
13 SND	2.99	3.27	0.28	ø8/15 2 br.	6.70	0.40	9452.57	2.50	14456.80	28609.20	14456.80	1.529

Travata n. 108

Nodi: -37669 1009 -488 -37676

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
5.06	17	SLU	1	50.00	6.03	6.03	6.03	6.03	-817.30	-5395.92	6.602
5.56	17	SLU	2	368.00	6.03	6.03	6.03	6.03	-1380.86	-5395.92	3.908
9.84	17	SLU	3	60.05	6.03	6.03	6.03	6.03	625.42	5395.92	8.628
10.36	17	SLU	3	112.14	6.03	6.03	6.03	6.03	-547.81	-5395.92	9.850

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
5.06	1	SND	1	50.00	6.03	6.03	6.03	6.03	-2590.28	-5143.73	1.986
5.56	9	SND	2	368.00	6.03	6.03	6.03	6.03	-3317.22	-5143.73	1.551
9.84	9	SND	3	60.05	6.03	6.03	6.03	6.03	2100.81	5143.73	2.448
10.36	1	SND	3	112.14	6.03	6.03	6.03	6.03	-2537.72	-5143.73	2.027

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>
5.06	18	SLE R	1	50.00	6.03	6.03	-630.67	481.16	-116.94	14.44
5.06	20	SLE Q	1	50.00	6.03	6.03	-628.52	479.51	-116.54	14.39
5.56	18	SLE R	2	368.00	6.03	6.03	-1027.05	783.57	-190.44	23.52
5.56	20	SLE Q	2	368.00	6.03	6.03	-1050.22	801.24	-194.74	24.05
9.84	18	SLE R	3	60.05	6.03	6.03	438.61	-81.33	334.63	10.04
9.84	20	SLE Q	3	60.05	6.03	6.03	448.95	-83.25	342.52	10.28
10.36	18	SLE R	3	112.14	6.03	6.03	-391.82	298.93	-72.65	8.97
10.36	20	SLE Q	3	112.14	6.03	6.03	-375.94	286.81	-69.71	8.61

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>
19	5.06	20	SLE Q	1	3	50.00	-628.52	27.00	164.00	0.50	16.00	126.13	6.03	271.92	479.51	0.14	0.03
20	5.06	19	SLE F	1	3	50.00	-628.16	27.00	164.00	0.50	16.00	126.13	6.03	271.92	479.25	0.14	0.03
40	5.56	20	SLE Q	2	3	368.00	-1050.22	27.00	164.00	0.50	16.00	126.13	6.03	271.92	801.24	0.23	0.05
41	5.56	19	SLE F	2	3	368.00	-1043.91	27.00	164.00	0.50	16.00	126.13	6.03	271.92	796.43	0.23	0.05
63	9.84	20	SLE Q	3	3	60.05	448.95	27.00	164.00	0.50	16.00	126.13	6.03	271.92	342.52	0.10	0.02
65	9.84	19	SLE F	3	3	60.05	446.03	27.00	164.00	0.50	16.00	126.13	6.03	271.92	340.29	0.10	0.02
84	10.36	20	SLE Q	3	3	112.14	-375.94	27.00	164.00	0.50	16.00	126.13	6.03	271.92	286.81	0.08	0.02
85	10.36	19	SLE F	3	3	112.14	-380.38	27.00	164.00	0.50	16.00	126.13	6.03	271.92	290.20	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	SND	0.04	4.78	4.74	ø8/15 2 br.	6.70	0.40	1401.87	2.50	14456.80	28609.20	14456.80	10.312
1	SND	4.78	5.06	0.28	ø8/15 2 br.	6.70	0.40	1480.27	2.50	14456.80	28609.20	14456.80	9.766
9	SND	5.56	5.84	0.28	ø8/15 2 br.	6.70	0.40	1859.75	2.50	14456.80	28609.20	14456.80	7.774
1	SND	5.84	10.08	4.24	ø8/15 2 br.	6.70	0.40	2052.46	2.50	14456.80	28609.20	14456.80	7.044
1	SND	10.08	10.36	0.28	ø8/15 2 br.	6.70	0.40	2397.57	2.50	14456.80	28609.20	14456.80	6.030

Travata n. 109

Nodi: 1069 -489 1010 1070 -35894 -35893 -35892 -35891 -35890 -35889 -491 -35888 1072 -35887 -35886 -35885 -35884 -35883 -35882 -35881 1074

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
5.76	17	SLU	2	25.00	6.03	6.03	6.03	6.03	-1391.67	-5395.92	3.877
6.26	17	SLU	3	434.00	6.03	6.03	6.03	6.03	-519.66	-5395.92	10.383
10.60	17	SLU	3	0.00	12.06	12.06	12.06	12.06	-478.96	-10357.90	21.626

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
5.76	9	SND	2	25.00	6.03	6.03	6.03	6.03	-2662.96	-5143.73	1.932
6.26	1	SND	3	434.00	6.03	6.03	6.03	6.03	-3527.07	-5143.73	1.458

Relazione di calcolo

10.60	9	SND	3	0.00	12.06	12.06	12.06	12.06	-3485.30	-10012.90	2.873
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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>
5.76	18	SLE R	2	25.00	6.03	6.03	-1047.61	799.26	-194.26	23.99
5.76	20	SLE Q	2	25.00	6.03	6.03	-1042.02	794.99	-193.22	23.86
6.26	18	SLE R	3	434.00	6.03	6.03	-416.60	317.84	-77.25	9.54
6.26	20	SLE Q	3	434.00	6.03	6.03	-436.62	333.11	-80.96	10.00
10.60	18	SLE R	3	0.00	12.06	12.06	-363.30	141.67	-53.55	5.74
10.60	20	SLE Q	3	0.00	12.06	12.06	-345.53	134.74	-50.93	5.46

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>
20	5.76	20	SLE Q	2	3	25.00	-1042.02	27.00	164.00	0.50	16.00	126.13	6.03	271.92	794.99	0.23	0.05
21	5.76	19	SLE F	2	3	25.00	-1043.39	27.00	164.00	0.50	16.00	126.13	6.03	271.92	796.03	0.23	0.05
40	6.26	20	SLE Q	3	3	434.00	-436.62	27.00	164.00	0.50	16.00	126.13	6.03	271.92	333.11	0.10	0.02
41	6.26	19	SLE F	3	3	434.00	-430.66	27.00	164.00	0.50	16.00	126.13	6.03	271.92	328.56	0.10	0.02
60	10.60	20	SLE Q	3	3	0.00	-345.53	27.00	65.60	0.50	16.00	87.14	12.06	249.86	134.74	0.04	0.01
61	10.60	19	SLE F	3	3	0.00	-350.88	27.00	65.60	0.50	16.00	87.14	12.06	249.86	136.83	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>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SND	0.04	5.48	5.44	ø8/15 2 br.	6.70	0.40	1392.78	2.50	14456.80	28609.20	14456.80	10.380
9 SND	5.48	5.76	0.28	ø8/15 2 br.	6.70	0.40	1471.18	2.50	14456.80	28609.20	14456.80	9.827
1 SND	6.26	6.54	0.28	ø8/15 2 br.	6.70	0.40	2064.05	2.50	14456.80	28609.20	14456.80	7.004
1 SND	6.54	10.32	3.78	ø8/15 2 br.	6.70	0.40	1985.65	2.50	14456.80	28609.20	14456.80	7.281
9 SND	10.32	10.60	0.28	ø8/15 2 br.	6.70	0.40	2022.07	2.50	14456.80	28609.20	14456.80	7.149

Travata n. 110

Nodi: -493 -494 -495

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>
5R		28.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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	17	SLU	1	309.00	6.03	6.03	6.03	6.03	-2645.24	-5269.62	1.992
2.16	17	SLU	1	92.70	6.03	6.03	6.03	6.03	2597.50	5269.62	2.029
4.59	17	SLU	2	0.00	6.03	6.03	6.03	6.03	-2177.06	-5269.62	2.421

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.00	1	SND	1	309.00	6.03	6.03	6.03	6.03	-3191.31	-5069.32	1.588
2.16	9	SND	1	92.70	6.03	6.03	6.03	6.03	1906.22	5069.32	2.659
4.59	13	SND	2	0.00	6.03	6.03	6.03	6.03	-2711.43	-5069.32	1.870

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	18	SLE R	1	309.00	6.03	6.03	-1808.62	1396.61	-432.00	49.12
0.00	20	SLE Q	1	309.00	6.03	6.03	-1818.63	1404.34	-434.39	49.39
2.16	18	SLE R	1	92.70	6.03	6.03	1770.89	-422.99	1367.48	48.09
2.16	20	SLE Q	1	92.70	6.03	6.03	1764.15	-421.38	1362.28	47.91
4.59	18	SLE R	2	0.00	6.03	6.03	-1473.48	1137.82	-351.95	40.02
4.59	20	SLE Q	2	0.00	6.03	6.03	-1476.18	1139.91	-352.60	40.09

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>
21	0.00	20	SLE Q	1	5	309.00	-1818.63	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1404.34	0.46	0.08
22	0.00	19	SLE F	1	5	309.00	-1815.51	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1401.94	0.41	0.07
41	2.16	20	SLE Q	1	5	92.70	1764.15	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1362.28	0.44	0.08
42	2.16	19	SLE F	1	5	92.70	1765.88	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1363.61	0.40	0.07
65	4.59	20	SLE Q	2	5	0.00	-1476.18	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1139.91	0.33	0.06
66	4.59	19	SLE F	2	5	0.00	-1475.98	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1139.75	0.33	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctg θ	VRsd	VRcd	Vrdu	Sic.
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Relazione di calcolo

	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
17 SLU	0.04	0.32	0.28	ø8/15 2 br.	6.70	0.28	4045.21	2.50	14456.80	20026.50	14456.80	3.574
17 SLU	0.32	4.27	3.96	ø8/15 2 br.	6.70	0.28	3573.81	2.50	14456.80	20026.50	14456.80	4.045
17 SLU	4.27	4.55	0.28	ø8/15 2 br.	6.70	0.28	2969.56	2.50	14456.80	20026.50	14456.80	4.868

Travata n. 111

Nodi: 1080 -499 1081 -24959 -24958 -24940 -24957 1083 -501 1084 -25238 -25237 -10154 -29027 -503 -32950 -32949 -29030 -29082 -24936 -25562 -25561 1088 -505 1089 -25858 -506 -25930 1090 -25901 1091 -507 -37678

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	TP	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.25	17	SLU	1	135.00	9.42	6.03	9.42	6.03	-2115.04	-8189.89	3.872
2.20	17	SLU	2	270.82	9.42	6.03	9.42	6.03	2293.03	5394.78	2.353
4.91	17	SLU	2	0.00	9.42	6.03	9.42	6.03	-3497.56	-8189.89	2.342
6.01	17	SLU	8	309.00	9.42	6.03	9.42	6.03	-2356.42	-8189.89	3.476
9.57	17	SLU	9	103.27	9.42	6.03	9.42	6.03	2717.27	5394.78	1.985
11.16	17	SLU	10	0.00	18.85	12.06	18.85	12.06	-5533.55	-15849.00	2.864
13.56	17	SLU	22	56.00	9.42	6.03	9.42	6.03	-6467.93	-8189.89	1.266
14.72	17	SLU	23	90.00	9.42	6.03	9.42	6.03	2549.59	5394.78	2.116
18.96	17	SLU	24	0.00	18.85	12.06	18.85	12.06	-2968.67	-15849.00	5.339
20.06	17	SLU	31	330.00	18.85	12.06	18.85	12.06	-3180.90	-15849.00	4.983
23.36	17	SLU	32	137.14	9.42	6.03	9.42	6.03	1263.33	5394.78	4.270
24.48	17	SLU	32	25.00	9.42	6.03	9.42	6.03	-1824.75	-8189.89	4.488

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.25	1	SND	1	135.00	9.42	6.03	9.42	6.03	-4067.82	-7863.31	1.933
2.20	9	SND	2	270.82	9.42	6.03	9.42	6.03	2121.46	5145.34	2.425
4.91	9	SND	2	0.00	9.42	6.03	9.42	6.03	-5218.16	-7863.31	1.507
6.01	1	SND	8	309.00	9.42	6.03	9.42	6.03	-4636.42	-7863.31	1.696
9.57	1	SND	9	103.27	9.42	6.03	9.42	6.03	2955.66	5145.34	1.741
11.16	9	SND	10	0.00	18.85	12.06	18.85	12.06	-6536.50	-15257.10	2.334
13.56	5	SND	22	56.00	9.42	6.03	9.42	6.03	-7260.30	-7863.31	1.083
14.72	9	SND	23	90.00	9.42	6.03	9.42	6.03	3183.01	5145.34	1.617
18.96	9	SND	24	0.00	18.85	12.06	18.85	12.06	-4995.05	-15257.10	3.054
20.06	1	SND	31	330.00	18.85	12.06	18.85	12.06	-5505.24	-15257.10	2.771
23.36	1	SND	32	137.14	9.42	6.03	9.42	6.03	2525.90	5145.34	2.037
24.48	9	SND	32	25.00	9.42	6.03	9.42	6.03	-4321.74	-7863.31	1.819

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _ε sup	σ _ε inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.25	18	SLE R	1	135.00	9.42	6.03	-1443.66	717.41	-262.40	28.38
0.25	20	SLE Q	1	135.00	9.42	6.03	-1469.29	730.15	-267.06	28.88
2.20	18	SLE R	2	270.82	9.42	6.03	1578.90	-258.52	1204.67	33.49
2.20	20	SLE Q	2	270.82	9.42	6.03	1576.20	-258.08	1202.61	33.44
4.91	18	SLE R	2	0.00	9.42	6.03	-2411.74	1198.49	-438.35	47.41
4.91	20	SLE Q	2	0.00	9.42	6.03	-2387.51	1186.45	-433.95	46.93
6.01	18	SLE R	8	309.00	9.42	6.03	-1671.36	830.57	-303.78	32.86
6.01	20	SLE Q	8	309.00	9.42	6.03	-1641.55	815.75	-298.37	32.27
9.57	18	SLE R	9	103.27	9.42	6.03	1877.38	-307.39	1432.40	39.82
9.57	20	SLE Q	9	103.27	9.42	6.03	1825.78	-298.94	1393.03	38.73
11.16	18	SLE R	10	0.00	18.85	12.06	-3841.69	975.92	-547.15	53.40
11.16	20	SLE Q	10	0.00	18.85	12.06	-3609.08	916.83	-514.02	50.17
13.56	18	SLE R	22	56.00	9.42	6.03	-4492.81	2232.66	-816.61	88.32
13.56	20	SLE Q	22	56.00	9.42	6.03	-4223.15	2098.65	-767.59	83.02
14.72	18	SLE R	23	90.00	9.42	6.03	1765.27	-289.04	1346.86	37.45
14.72	20	SLE Q	23	90.00	9.42	6.03	1675.22	-274.29	1278.16	35.54
18.96	18	SLE R	24	0.00	18.85	12.06	-2099.28	533.29	-298.99	29.18
18.96	20	SLE Q	24	0.00	18.85	12.06	-2030.68	515.86	-289.22	28.23
20.06	18	SLE R	31	330.00	18.85	12.06	-2204.26	559.96	-313.94	30.64
20.06	20	SLE Q	31	330.00	18.85	12.06	-2199.10	558.64	-313.20	30.57
23.36	18	SLE R	32	137.14	9.42	6.03	879.75	-144.05	671.23	18.66
23.36	20	SLE Q	32	137.14	9.42	6.03	874.95	-143.26	667.57	18.56
24.48	18	SLE R	32	25.00	9.42	6.03	-1234.91	613.68	-224.46	24.28
24.48	20	SLE Q	32	25.00	9.42	6.03	-1242.51	617.45	-225.84	24.43

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>

Relazione di calcolo

21	0.25	20	SLE Q	1	3	135.00	-1469.29	25.00	162.00	0.50	20.00	103.41	9.42	251.68	730.15	0.21	0.04
22	0.25	19	SLE F	1	3	135.00	-1462.68	25.00	162.00	0.50	20.00	103.41	9.42	251.68	726.87	0.21	0.04
41	2.20	20	SLE Q	2	3	270.82	1576.20	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1202.61	0.35	0.08
42	2.20	19	SLE F	2	3	270.82	1576.86	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1203.11	0.35	0.08
63	4.91	20	SLE Q	2	3	0.00	-2387.51	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1186.45	0.38	0.07
64	4.91	19	SLE F	2	3	0.00	-2393.82	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1189.58	0.35	0.06
83	6.01	20	SLE Q	8	3	309.00	-1641.55	25.00	162.00	0.50	20.00	103.41	9.42	251.68	815.75	0.24	0.04
84	6.01	19	SLE F	8	3	309.00	-1649.04	25.00	162.00	0.50	20.00	103.41	9.42	251.68	819.48	0.24	0.04
107	9.57	20	SLE Q	9	3	103.27	1825.78	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1393.03	0.41	0.09
108	9.57	19	SLE F	9	3	103.27	1839.05	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1403.16	0.41	0.09
131	11.16	20	SLE Q	10	3	0.00	-3609.08	25.00	64.80	0.50	20.00	73.99	18.85	226.08	916.83	0.34	0.04
132	11.16	19	SLE F	10	3	0.00	-3669.11	25.00	64.80	0.50	20.00	73.99	18.85	226.08	932.08	0.29	0.04
153	13.56	20	SLE Q	22	3	56.00	-4223.15	25.00	162.00	0.50	20.00	103.41	9.42	251.68	2098.65	0.82	0.14
154	13.56	19	SLE F	22	3	56.00	-4292.88	25.00	162.00	0.50	20.00	103.41	9.42	251.68	2133.30	0.74	0.13
180	14.72	20	SLE Q	23	3	90.00	1675.22	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1278.16	0.37	0.08
181	14.72	19	SLE F	23	3	90.00	1698.39	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1295.83	0.38	0.08
201	18.96	20	SLE Q	24	3	0.00	-2030.68	25.00	64.80	0.50	20.00	73.99	18.85	226.08	515.86	0.15	0.02
202	18.96	19	SLE F	24	3	0.00	-2048.20	25.00	64.80	0.50	20.00	73.99	18.85	226.08	520.31	0.15	0.02
223	20.06	20	SLE Q	31	3	330.00	-2199.10	25.00	64.80	0.50	20.00	73.99	18.85	226.08	558.99	0.16	0.02
224	20.06	19	SLE F	31	3	330.00	-2200.44	25.00	64.80	0.50	20.00	73.99	18.85	226.08	558.99	0.16	0.02
245	23.36	20	SLE Q	32	3	137.14	874.95	27.00	164.00	0.50	16.00	127.53	6.03	277.19	667.57	0.19	0.04
246	23.36	19	SLE F	32	3	137.14	876.14	27.00	164.00	0.50	16.00	127.53	6.03	277.19	668.48	0.19	0.04
267	24.48	20	SLE Q	32	3	25.00	-1242.51	25.00	162.00	0.50	20.00	103.41	9.42	251.68	617.45	0.18	0.03
268	24.48	19	SLE F	32	3	25.00	-1240.60	25.00	162.00	0.50	20.00	103.41	9.42	251.68	616.50	0.18	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.
17 SLU	0.25	0.53	0.28	ø8/15 2 br.	6.70	0.40	3880.43	2.50	14456.80	28609.20	14456.80	3.726
17 SLU	0.53	4.63	4.10	ø8/15 2 br.	6.70	0.40	3971.81	2.50	14456.80	28609.20	14456.80	3.640
17 SLU	4.63	4.91	0.28	ø8/15 2 br.	6.70	0.40	4473.78	2.50	14456.80	28609.20	14456.80	3.231
1 SND	6.01	6.29	0.28	ø8/15 2 br.	6.70	0.40	2708.49	2.50	14456.80	28609.20	14456.80	5.338
17 SLU	6.29	10.88	4.59	ø8/15 2 br.	6.70	0.40	9922.35	2.50	14456.80	28609.20	14456.80	1.457
17 SLU	10.88	11.16	0.28	ø8/15 2 br.	6.70	0.40	11034.90	2.50	14456.80	28609.20	14456.80	1.310
17 SLU	13.56	13.84	0.28	ø8/15 2 br.	6.70	0.40	12160.80	2.50	14456.80	28609.20	14456.80	1.189
17 SLU	13.84	18.68	4.84	ø8/15 2 br.	6.70	0.40	11048.20	2.50	14456.80	28609.20	14456.80	1.309
9 SND	18.68	18.96	0.28	ø8/15 2 br.	6.70	0.40	2748.71	2.50	14456.80	28609.20	14456.80	5.259
1 SND	20.06	20.34	0.28	ø8/15 2 br.	6.70	0.40	4385.17	2.50	14456.80	28609.20	14456.80	3.297
1 SND	20.34	24.20	3.86	ø8/15 2 br.	6.70	0.40	4040.07	2.50	14456.80	28609.20	14456.80	3.578
9 SND	24.20	24.48	0.28	ø8/15 2 br.	6.70	0.40	3952.46	2.50	14456.80	28609.20	14456.80	3.658

Travata n. 112

Nodi: 1001 1019 -21512 -21511 -21510 -21487 -32531 -32530 -35041 -33140 -33160 -33159 1030 -33158 -33157 -33156 -33138 -35079 -34424 1049 -21709 -21708 -21707 -21706 1063 1069 1078 -21944 -21943 -21942 1080

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>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	25.00	22.62	22.62	22.62	22.62	758.98	19123.70	25.197
1.50	17	SLU	1	150.00	22.62	22.62	22.62	22.62	-1187.61	-19123.70	16.103
3.00	17	SLU	8	0.00	22.62	22.62	22.62	22.62	-988.16	-19123.70	19.353
5.03	17	SLU	8	203.00	22.62	22.62	22.62	22.62	-1841.73	-19123.70	10.384
7.02	17	SLU	18	0.00	22.62	22.62	22.62	22.62	-791.31	-19123.70	24.167
8.71	17	SLU	18	169.25	40.72	40.72	40.72	40.72	-1260.23	-33941.50	26.933
10.01	17	SLU	25	0.00	40.72	40.72	40.72	40.72	-3934.05	-33941.50	8.628
13.06	17	SLU	26	255.00	18.10	18.10	18.10	18.10	-3531.93	-15421.10	4.366

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	9	SND	1	25.00	22.62	22.62	22.62	22.62	13511.70	18546.50	1.373
1.50	9	SND	1	150.00	22.62	22.62	22.62	22.62	-14952.60	-18546.50	1.240
3.00	9	SND	8	0.00	22.62	22.62	22.62	22.62	16009.70	18546.50	1.158
5.03	9	SND	8	203.00	22.62	22.62	22.62	22.62	-16355.40	-18546.50	1.134
7.02	9	SND	18	0.00	22.62	22.62	22.62	22.62	18019.40	18546.50	1.029
8.71	1	SND	18	169.25	40.72	40.72	40.72	40.72	17766.20	33042.60	1.860
10.01	1	SND	25	0.00	40.72	40.72	40.72	40.72	-11574.50	-33042.60	2.855
13.06	9	SND	26	255.00	18.10	18.10	18.10	18.10	-11476.20	-14930.50	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 _e <daN/cmq>
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Relazione di calcolo

0.25	18	SLE R	1	25.00	22.62	22.62	530.33	-51.95	111.34	5.28
0.25	20	SLE Q	1	25.00	22.62	22.62	495.55	-48.55	104.04	4.93
1.50	18	SLE R	1	150.00	22.62	22.62	-829.76	174.21	-81.29	8.26
1.50	20	SLE Q	1	150.00	22.62	22.62	-774.87	162.69	-75.91	7.71
3.00	18	SLE R	8	0.00	22.62	22.62	-680.81	142.94	-66.70	6.78
3.00	20	SLE Q	8	0.00	22.62	22.62	-597.41	125.43	-58.53	5.95
5.03	18	SLE R	8	203.00	22.62	22.62	-1294.23	271.73	-126.79	12.88
5.03	20	SLE Q	8	203.00	22.62	22.62	-1171.31	245.92	-114.75	11.66
7.02	18	SLE R	18	0.00	22.62	22.62	-541.68	113.73	-53.07	5.39
7.02	20	SLE Q	18	0.00	22.62	22.62	-480.47	100.88	-47.07	4.78
8.71	18	SLE R	18	169.25	40.72	40.72	-892.12	104.91	-62.75	6.05
8.71	20	SLE Q	18	169.25	40.72	40.72	-798.25	93.87	-56.14	5.41
10.01	18	SLE R	25	0.00	40.72	40.72	-2758.63	324.42	-194.02	18.70
10.01	20	SLE Q	25	0.00	40.72	40.72	-2513.35	295.57	-176.77	17.03
13.06	18	SLE R	26	255.00	18.10	18.10	-2475.27	646.49	-269.75	28.16
13.06	20	SLE Q	26	255.00	18.10	18.10	-2186.28	571.01	-238.25	24.88

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>
19	0.25	20	SLE Q	1	4	25.00	495.55	23.00	104.00	0.50	24.00	77.51	22.62	296.98	104.04	0.03	0.00
20	0.25	19	SLE F	1	4	25.00	504.67	23.00	104.00	0.50	24.00	77.51	22.62	296.98	105.96	0.03	0.00
39	1.50	20	SLE Q	1	4	150.00	-774.87	23.00	104.00	0.50	24.00	77.51	22.62	296.98	162.69	0.05	0.01
40	1.50	19	SLE F	1	4	150.00	-788.99	23.00	104.00	0.50	24.00	77.51	22.62	296.98	165.65	0.05	0.01
62	3.00	20	SLE Q	8	4	0.00	-597.41	23.00	104.00	0.50	24.00	77.51	22.62	296.98	125.43	0.04	0.00
64	3.00	19	SLE F	8	4	0.00	-622.83	23.00	104.00	0.50	24.00	77.51	22.62	296.98	130.77	0.04	0.01
83	5.03	20	SLE Q	8	4	203.00	-1171.31	23.00	104.00	0.50	24.00	77.51	22.62	296.98	245.92	0.07	0.01
84	5.03	19	SLE F	8	4	203.00	-1204.88	23.00	104.00	0.50	24.00	77.51	22.62	296.98	252.97	0.07	0.01
106	7.02	20	SLE Q	18	4	0.00	-480.47	23.00	104.00	0.50	24.00	77.51	22.62	296.98	100.88	0.03	0.00
108	7.02	19	SLE F	18	4	0.00	-498.35	23.00	104.00	0.50	24.00	77.51	22.62	296.98	104.63	0.03	0.00
127	8.71	20	SLE Q	18	4	169.25	-798.25	23.00	52.00	0.50	24.00	62.35	40.72	277.35	93.87	0.03	0.00
128	8.71	19	SLE F	18	4	169.25	-824.62	23.00	52.00	0.50	24.00	62.35	40.72	277.35	96.98	0.03	0.00
147	10.01	20	SLE Q	25	4	0.00	-2513.35	23.00	52.00	0.50	24.00	62.35	40.72	277.35	295.57	0.09	0.01
148	10.01	19	SLE F	25	4	0.00	-2583.30	23.00	52.00	0.50	24.00	62.35	40.72	277.35	303.80	0.09	0.01
167	13.06	20	SLE Q	26	4	255.00	-2186.28	23.00	138.67	0.50	24.00	86.49	18.10	305.29	571.01	0.17	0.02
168	13.06	19	SLE F	26	4	255.00	-2269.05	23.00	138.67	0.50	24.00	86.49	18.10	305.29	592.62	0.17	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.
1 SND	0.25	0.53	0.28	ø10/10 2 br.	15.71	0.50	22205.60	2.50	33883.10	35761.60	33883.10	1.526
9 SND	0.53	1.22	0.69	ø10/10 2 br.	15.71	0.50	22911.90	2.50	33883.10	35761.60	33883.10	1.479
9 SND	1.22	1.50	0.28	ø10/10 2 br.	15.71	0.50	23823.40	2.50	33883.10	35761.60	33883.10	1.422
1 SND	3.00	3.28	0.28	ø10/10 2 br.	15.71	0.50	17965.40	2.50	33883.10	35761.60	33883.10	1.886
9 SND	3.28	4.75	1.47	ø10/10 2 br.	15.71	0.50	17619.20	2.50	33883.10	35761.60	33883.10	1.923
9 SND	4.75	5.03	0.28	ø10/10 2 br.	15.71	0.50	18530.80	2.50	33883.10	35761.60	33883.10	1.828
1 SND	7.02	7.30	0.28	ø10/10 2 br.	15.71	0.50	22727.50	2.50	33883.10	35761.60	33883.10	1.491
9 SND	7.30	8.44	1.13	ø10/10 2 br.	15.71	0.50	22130.80	2.50	33883.10	35761.60	33883.10	1.531
9 SND	8.44	8.71	0.28	ø10/10 2 br.	15.71	0.50	23103.00	2.50	33883.10	35761.60	33883.10	1.467
1 SND	10.01	10.29	0.28	ø10/10 2 br.	15.71	0.50	12156.00	2.50	33883.10	35761.60	33883.10	2.787
1 SND	10.29	12.78	2.49	ø10/10 2 br.	15.71	0.50	11183.80	2.50	33883.10	35761.60	33883.10	3.030
9 SND	12.78	13.06	0.28	ø10/10 2 br.	15.71	0.50	11351.80	2.50	33883.10	35761.60	33883.10	2.985

Travata n. 113

Nodi: 1002 1005 1033

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>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	25.00	12.57	9.42	12.57	9.42	-868.28	-10882.70	12.534
1.50	17	SLU	1	150.00	12.57	9.42	12.57	9.42	-5427.23	-10882.70	2.005
1.75	17	SLU	2	25.00	12.57	9.42	12.57	9.42	-7153.94	-10882.70	1.521
3.69	17	SLU	2	218.62	12.57	9.42	12.57	9.42	7095.87	8299.80	1.170
5.95	17	SLU	2	444.50	12.57	9.42	12.57	9.42	-10696.40	-10882.70	1.017

Stato limite elastico - 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>	M' ydy <daNm>	Sic.
0.25	13	SND	1	25.00	12.57	9.42	12.57	9.42	4947.28	7972.02	1.611
1.50	13	SND	1	150.00	12.57	9.42	12.57	9.42	-6200.51	-10469.10	1.688
1.75	5	SND	2	25.00	12.57	9.42	12.57	9.42	-6027.40	-10469.10	1.737
3.69	5	SND	2	218.62	12.57	9.42	12.57	9.42	4816.27	7972.02	1.655

Relazione di calcolo

5.95	13	SND	2	444.50	12.57	9.42	12.57	9.42	-9209.66	-10469.10	1.137
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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>
0.25	18	SLE R	1	25.00	12.57	9.42	-615.38	229.63	-84.56	9.13
0.25	20	SLE Q	1	25.00	12.57	9.42	-515.89	192.51	-70.89	7.65
1.50	18	SLE R	1	150.00	12.57	9.42	-3821.65	1426.09	-525.17	56.69
1.50	20	SLE Q	1	150.00	12.57	9.42	-3248.99	1212.40	-446.48	48.20
1.75	18	SLE R	2	25.00	12.57	9.42	-5045.51	1882.79	-693.35	74.85
1.75	20	SLE Q	2	25.00	12.57	9.42	-4265.46	1591.70	-586.16	63.28
3.69	18	SLE R	2	218.62	12.57	9.42	5010.89	-642.00	2463.90	77.31
3.69	20	SLE Q	2	218.62	12.57	9.42	4254.94	-545.14	2092.20	65.65
5.95	18	SLE R	2	444.50	12.57	9.42	-7556.00	2819.61	-1038.34	112.09
5.95	20	SLE Q	2	444.50	12.57	9.42	-6437.44	2402.20	-884.63	95.50

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 off} <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
19	0.25	20	SLE Q	1	4	25.00	-515.89	25.00	140.00	0.50	20.00	100.00	12.57	314.13	192.51	0.06	0.01
20	0.25	19	SLE F	1	4	25.00	-541.90	25.00	140.00	0.50	20.00	100.00	12.57	314.13	202.22	0.06	0.01
39	1.50	20	SLE Q	1	4	150.00	-3248.99	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1212.40	0.40	0.07
40	1.50	19	SLE F	1	4	150.00	-3413.57	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1273.81	0.37	0.06
59	1.75	20	SLE Q	2	4	25.00	-4265.46	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1591.70	0.59	0.10
60	1.75	19	SLE F	2	4	25.00	-4489.41	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1675.28	0.53	0.09
79	3.69	20	SLE Q	2	4	218.62	4254.94	25.00	210.00	0.50	20.00	151.19	9.42	335.99	2092.20	0.76	0.20
80	3.69	19	SLE F	2	4	218.62	4470.81	25.00	210.00	0.50	20.00	151.19	9.42	335.99	2198.34	0.69	0.18
99	5.95	20	SLE Q	2	4	444.50	-6437.44	25.00	140.00	0.50	20.00	100.00	12.57	314.13	2402.20	0.98	0.17
100	5.95	19	SLE F	2	4	444.50	-6756.03	25.00	140.00	0.50	20.00	100.00	12.57	314.13	2521.09	0.94	0.16

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5 SND	0.25	0.53	0.28	ø10/15 2 br.	10.47	0.50	7390.40	2.50	22588.70	35761.60	22588.70	3.057
13 SND	0.53	1.22	0.69	ø10/15 2 br.	10.47	0.50	10327.20	2.50	22588.70	35761.60	22588.70	2.187
13 SND	1.22	1.50	0.28	ø10/15 2 br.	10.47	0.50	11763.40	2.50	22588.70	35761.60	22588.70	1.920
17 SLU	1.75	2.03	0.28	ø10/15 2 br.	10.47	0.50	13768.00	2.50	22588.70	35761.60	22588.70	1.641
17 SLU	2.03	5.67	3.63	ø10/15 2 br.	10.47	0.50	13506.20	2.50	22588.70	35761.60	22588.70	1.672
17 SLU	5.67	5.95	0.28	ø10/15 2 br.	10.47	0.50	15456.80	2.50	22588.70	35761.60	22588.70	1.461

Travata n. 115

Nodi: 1034 1010 -493 1083

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>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.12	17	SLU	1	12.50	15.71	9.42	15.71	9.42	-8272.12	-13438.30	1.625
1.84	17	SLU	1	183.98	15.71	9.42	15.71	9.42	6089.21	8298.78	1.363
4.19	17	SLU	1	419.00	15.71	9.42	15.71	9.42	-9447.94	-13438.30	1.422
4.44	17	SLU	2	0.00	15.71	9.42	15.71	9.42	-11720.60	-13438.30	1.147
6.09	17	SLU	3	20.00	15.71	9.42	15.71	9.42	6494.47	8298.78	1.278
7.74	17	SLU	3	185.00	15.71	9.42	15.71	9.42	-4017.33	-13438.30	3.345

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.12	5	SND	1	12.50	15.71	9.42	15.71	9.42	-7479.77	-12919.30	1.727
1.84	13	SND	1	183.98	15.71	9.42	15.71	9.42	4080.53	7978.26	1.955
4.19	13	SND	1	419.00	15.71	9.42	15.71	9.42	-7840.83	-12919.30	1.648
4.44	5	SND	2	0.00	15.71	9.42	15.71	9.42	-10278.30	-12919.30	1.257
6.09	1	SND	3	20.00	15.71	9.42	15.71	9.42	4632.59	7978.26	1.722
7.74	13	SND	3	185.00	15.71	9.42	15.71	9.42	-5941.23	-12919.30	2.175

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>
0.12	18	SLE R	1	12.50	15.71	9.42	-5852.87	1764.02	-790.28	81.07
0.12	20	SLE Q	1	12.50	15.71	9.42	-4951.71	1492.41	-668.60	68.58
1.84	18	SLE R	1	183.98	15.71	9.42	4304.56	-509.06	2115.99	63.10
1.84	20	SLE Q	1	183.98	15.71	9.42	3632.94	-429.64	1785.84	53.26
4.19	18	SLE R	1	419.00	15.71	9.42	-6647.43	2003.49	-897.56	92.07

Relazione di calcolo

4.19	20	SLE Q	1	419.00	15.71	9.42	-5704.94	1719.43	-770.30	79.02
4.44	18	SLE R	2	0.00	15.71	9.42	-8200.47	2471.57	-1107.26	113.58
4.44	20	SLE Q	2	0.00	15.71	9.42	-7242.94	2182.98	-977.97	100.32
6.09	18	SLE R	3	20.00	15.71	9.42	4519.50	-534.48	2221.65	66.26
6.09	20	SLE Q	3	20.00	15.71	9.42	4061.72	-480.35	1996.62	59.54
7.74	18	SLE R	3	185.00	15.71	9.42	-2797.05	843.01	-377.67	38.74
7.74	20	SLE Q	3	185.00	15.71	9.42	-2457.64	740.72	-331.84	34.04

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>
19	0.12	20	SLE Q	1	4	12.50	-4951.71	25.00	105.00	0.50	20.00	88.20	15.71	300.05	1492.41	0.57	0.09
20	0.12	19	SLE F	1	4	12.50	-5209.36	25.00	105.00	0.50	20.00	88.20	15.71	300.05	1570.07	0.53	0.08
39	1.84	20	SLE Q	1	4	183.98	3632.94	25.00	210.00	0.50	20.00	153.21	9.42	340.46	1785.84	0.61	0.16
40	1.84	19	SLE F	1	4	183.98	3825.30	25.00	210.00	0.50	20.00	153.21	9.42	340.46	1880.40	0.55	0.14
59	4.19	20	SLE Q	1	4	419.00	-5704.94	25.00	105.00	0.50	20.00	88.20	15.71	300.05	1719.43	0.68	0.10
60	4.19	19	SLE F	1	4	419.00	-5973.15	25.00	105.00	0.50	20.00	88.20	15.71	300.05	1800.27	0.65	0.10
79	4.44	20	SLE Q	2	4	0.00	-7242.94	25.00	105.00	0.50	20.00	88.20	15.71	300.05	2182.98	0.91	0.14
80	4.44	19	SLE F	2	4	0.00	-7510.77	25.00	105.00	0.50	20.00	88.20	15.71	300.05	2263.70	0.87	0.13
99	6.09	20	SLE Q	3	4	20.00	4061.72	25.00	210.00	0.50	20.00	153.21	9.42	340.46	1996.62	0.72	0.19
100	6.09	19	SLE F	3	4	20.00	4185.25	25.00	210.00	0.50	20.00	153.21	9.42	340.46	2057.34	0.62	0.16
123	7.74	20	SLE Q	3	4	185.00	-2457.64	25.00	105.00	0.50	20.00	88.20	15.71	300.05	740.72	0.22	0.03
124	7.74	19	SLE F	3	4	185.00	-2550.00	25.00	105.00	0.50	20.00	88.20	15.71	300.05	768.55	0.22	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.
17 SLU	0.12	0.41	0.28	ø10/15 2 br.	10.47	0.50	13870.30	2.50	22588.70	35761.60	22588.70	1.629
17 SLU	0.41	3.91	3.50	ø10/15 2 br.	10.47	0.50	12498.20	2.50	22588.70	35761.60	22588.70	1.807
17 SLU	3.91	4.19	0.28	ø10/15 2 br.	10.47	0.50	14448.80	2.50	22588.70	35761.60	22588.70	1.563
17 SLU	4.44	4.72	0.28	ø10/15 2 br.	10.47	0.50	16906.40	2.50	22588.70	35761.60	22588.70	1.336
17 SLU	4.72	7.46	2.74	ø10/15 2 br.	10.47	0.50	14955.80	2.50	22588.70	35761.60	22588.70	1.510
17 SLU	7.46	7.74	0.28	ø10/15 2 br.	10.47	0.50	12959.70	2.50	22588.70	35761.60	22588.70	1.743

Travata n. 116

Nodi: 1011 -30690 -30689 -30688 -30687 -14303 1020 -35837 -29599 -30920 -30919 -30918 -30917 -30916 1028 1037 1043 -24284 -24283 -24282 -24281 -22847 -29453 -29452 -29437 -29670 -29669 1070 -495 1084

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CCTCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.54	17	SLU	7	3.60	18.10	18.10	18.10	893.67	15421.10	17.256
2.50	17	SLU	7	100.00	31.67	31.67	31.67	-1017.70	-26530.20	26.069
4.21	17	SLU	15	0.00	13.57	13.57	13.57	613.77	11710.60	19.080
5.95	17	SLU	15	173.50	13.57	13.57	13.57	-2897.42	-11710.60	4.042
6.20	17	SLU	16	12.50	27.14	27.14	27.14	-3203.40	-22829.10	7.127
8.07	17	SLU	16	200.22	13.57	13.57	13.57	-875.34	-11710.60	13.378
8.16	17	SLU	16	209.00	13.57	13.57	13.57	-875.34	-11710.60	13.378
10.51	17	SLU	28	0.00	13.57	13.57	13.57	-6625.46	-11710.60	1.768

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CCTCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
1.54	5	SND	7	3.60	18.10	18.10	18.10	14677.70	14930.50	1.017
2.50	5	SND	7	100.00	31.67	31.67	31.67	-14118.10	-25784.20	1.826
4.21	13	SND	15	0.00	13.57	13.57	13.57	9788.49	11307.80	1.155
5.95	13	SND	15	173.50	13.57	13.57	13.57	-9792.12	-11307.80	1.155
6.20	13	SND	16	12.50	27.14	27.14	27.14	-8000.88	-22162.70	2.770
8.07	5	SND	16	200.22	13.57	13.57	13.57	-7555.51	-11307.80	1.497
8.16	5	SND	16	209.00	13.57	13.57	13.57	-7555.51	-11307.80	1.497
10.51	5	SND	28	0.00	13.57	13.57	13.57	-8111.17	-11307.80	1.394

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.54	18	SLE R	7	3.60	18.10	18.10	626.74	-68.30	163.69	7.13
1.54	20	SLE Q	7	3.60	18.10	18.10	604.30	-65.85	157.83	6.88
2.50	18	SLE R	7	100.00	31.67	31.67	-714.74	107.78	-58.44	5.74
2.50	20	SLE Q	7	100.00	31.67	31.67	-692.44	104.42	-56.61	5.56
4.21	18	SLE R	15	0.00	13.57	13.57	443.23	-54.52	153.19	5.94
4.21	20	SLE Q	15	0.00	13.57	13.57	401.57	-49.40	138.79	5.38

Relazione di calcolo

5.95	18	SLE R	15	173.50	13.57	13.57	-2051.13	708.90	-252.32	27.50
5.95	20	SLE Q	15	173.50	13.57	13.57	-1832.07	633.19	-225.38	24.56
6.20	18	SLE R	16	12.50	27.14	27.14	-2278.09	399.88	-202.95	20.23
6.20	20	SLE Q	16	12.50	27.14	27.14	-2036.69	357.50	-181.44	18.08
8.07	18	SLE R	16	200.22	13.57	13.57	604.44	-74.36	208.90	8.10
8.07	20	SLE Q	16	200.22	13.57	13.57	555.12	-68.29	191.86	7.44
8.16	18	SLE R	16	209.00	13.57	13.57	-572.41	197.83	-70.42	7.67
8.16	20	SLE Q	16	209.00	13.57	13.57	-466.91	161.37	-57.44	6.26
10.51	18	SLE R	28	0.00	13.57	13.57	-4654.76	1608.75	-572.61	62.41
10.51	20	SLE Q	28	0.00	13.57	13.57	-4225.00	1460.22	-519.75	56.65

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>
19	1.54	20	SLE Q	7	4	3.60	604.30	23.00	138.67	0.50	24.00	86.49	18.10	305.29	157.83	0.05	0.01
20	1.54	19	SLE F	7	4	3.60	609.18	23.00	138.67	0.50	24.00	86.49	18.10	305.29	159.10	0.05	0.01
39	2.50	20	SLE Q	7	4	100.00	-692.44	23.00	69.33	0.50	24.00	67.62	31.67	285.28	104.42	0.03	0.00
40	2.50	19	SLE F	7	4	100.00	-697.27	23.00	69.33	0.50	24.00	67.62	31.67	285.28	105.14	0.03	0.00
61	4.21	20	SLE Q	15	4	0.00	401.57	23.00	208.00	0.50	24.00	142.41	13.57	316.46	138.79	0.04	0.01
63	4.21	19	SLE F	15	4	0.00	410.79	23.00	208.00	0.50	24.00	142.41	13.57	316.46	141.97	0.04	0.01
83	5.95	20	SLE Q	15	4	173.50	-1832.07	23.00	208.00	0.50	24.00	142.41	13.57	316.46	633.19	0.18	0.04
84	5.95	19	SLE F	15	4	173.50	-1888.82	23.00	208.00	0.50	24.00	142.41	13.57	316.46	652.80	0.19	0.05
103	6.20	20	SLE Q	16	4	12.50	-2036.69	23.00	83.20	0.50	24.00	71.69	27.14	290.50	357.50	0.10	0.01
104	6.20	19	SLE F	16	4	12.50	-2099.69	23.00	83.20	0.50	24.00	71.69	27.14	290.50	368.56	0.11	0.01
126	8.07	20	SLE Q	16	4	200.22	555.12	23.00	208.00	0.50	24.00	142.41	13.57	316.46	191.86	0.06	0.01
128	8.07	19	SLE F	16	4	200.22	567.62	23.00	208.00	0.50	24.00	142.41	13.57	316.46	196.18	0.06	0.01
149	8.16	20	SLE Q	16	4	209.00	-466.91	23.00	208.00	0.50	24.00	142.41	13.57	316.46	161.37	0.05	0.01
151	8.16	19	SLE F	16	4	209.00	-496.60	23.00	208.00	0.50	24.00	142.41	13.57	316.46	171.63	0.05	0.01
175	10.51	20	SLE Q	28	4	0.00	-4225.00	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1460.22	0.53	0.13
176	10.51	19	SLE F	28	4	0.00	-4339.28	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1499.72	0.46	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.
5 SND	1.50	1.78	0.28	ø10/10 2 br.	15.71	0.50	26762.60	2.50	33883.10	35761.60	33883.10	1.266
5 SND	1.78	2.22	0.44	ø10/10 2 br.	15.71	0.50	28160.10	2.50	33883.10	35761.60	33883.10	1.203
5 SND	2.22	2.50	0.28	ø10/10 2 br.	15.71	0.50	29049.40	2.50	33883.10	35761.60	33883.10	1.166
5 SND	4.21	4.49	0.28	ø10/10 2 br.	15.71	0.50	12932.80	2.50	33883.10	35761.60	33883.10	2.620
13 SND	4.49	5.67	1.17	ø10/10 2 br.	15.71	0.50	13414.40	2.50	33883.10	35761.60	33883.10	2.526
13 SND	5.67	5.95	0.28	ø10/10 2 br.	15.71	0.50	14689.10	2.50	33883.10	35761.60	33883.10	2.307
13 SND	6.20	6.47	0.28	ø10/10 2 br.	15.71	0.50	11652.90	2.50	33883.10	35761.60	33883.10	2.908
13 SND	6.47	7.88	1.40	ø10/10 2 br.	15.71	0.50	10438.90	2.50	33883.10	35761.60	33883.10	3.246
5 SND	7.88	8.16	0.28	ø10/10 2 br.	15.71	0.50	10055.20	2.50	33883.10	35761.60	33883.10	3.370
17 SLU	10.51	10.79	0.28	ø10/10 2 br.	15.71	0.50	9088.88	2.50	33883.10	35761.60	33883.10	3.728
17 SLU	10.79	14.02	3.23	ø10/10 2 br.	15.71	0.50	8171.97	2.50	33883.10	35761.60	33883.10	4.146

Travata n. 118

Nodi: 1044 1047 -37133 -37132 -37131 -37130 -37129 -37128 -37127 -37126 1072

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>
6R		20.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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	17	SLU	1	40.00	4.02	4.02	4.02	4.02	-33.71	-3527.53	>100

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.40	13	SND	1	40.00	4.02	4.02	4.02	4.02	3211.26	3388.71	1.055

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
0.40	18	SLE R	1	40.00	4.02	4.02	-20.46	23.65	-7.00	0.81
0.40	20	SLE Q	1	40.00	4.02	4.02	-9.81	11.33	-3.35	0.39

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/cm q>	ε _{sm}	Wk <mm>
19	0.40	20	SLE Q	1	6	40.00	-9.81	27.00	128.00	0.50	16.00	106.27	4.02	131.36	11.33	0.00	0.00
20	0.40	19	SLE F	1	6	40.00	-10.34	27.00	128.00	0.50	16.00	106.27	4.02	131.36	11.95	0.00	0.00

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.
13 SND	0.04	0.40	0.36	ø8/15 2 br.	6.70	0.20	11240.70	2.48	14368.30	14368.30	14368.30	1.278

Travata n. 120

Nodi: 1018 -15837 -15836 -15835 -15834 -15833 1021 -35802 -29335 -31418 -31417 -31416 -31415 -31414 1029 -36924 -36993 -36994 1039 -36995 1041 1045 -37669 1074 -496 1088

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	TP	Fyk <daN/cm²>	Fyd <daN/cm²>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.54	17	SLU	7	3.60	18.10	32.04	18.10	32.04	965.76	26564.40	27.506
2.50	17	SLU	7	100.00	27.52	32.04	27.52	32.04	-1136.47	-23153.00	20.373
4.21	17	SLU	15	0.00	18.85	18.85	18.85	18.85	-1393.78	-16037.80	11.507
6.21	17	SLU	19	14.50	18.85	18.85	18.85	18.85	-3040.85	-16037.80	5.274
6.46	17	SLU	21	12.50	18.85	18.85	18.85	18.85	-3199.95	-16037.80	5.012
8.16	17	SLU	21	182.00	18.85	18.85	18.85	18.85	-563.92	-16037.80	28.440
8.96	17	SLU	22	80.00	18.85	18.85	18.85	18.85	221.18	16037.80	72.511
10.26	17	SLU	23	98.00	18.85	18.85	18.85	18.85	-3151.77	-16037.80	5.089
10.51	17	SLU	24	0.00	18.85	18.85	18.85	18.85	-7849.89	-16037.80	2.043

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
1.54	13	SND	7	3.60	18.10	32.04	18.10	32.04	-14568.40	-15052.10	1.033
2.50	5	SND	7	100.00	27.52	32.04	27.52	32.04	-16750.60	-22551.80	1.346
4.21	13	SND	15	0.00	18.85	18.85	18.85	18.85	-8726.37	-15533.60	1.780
6.21	5	SND	19	14.50	18.85	18.85	18.85	18.85	-8393.85	-15533.60	1.851
6.46	13	SND	21	12.50	18.85	18.85	18.85	18.85	-8266.03	-15533.60	1.879
8.16	13	SND	21	182.00	18.85	18.85	18.85	18.85	9830.12	15533.60	1.580
8.96	5	SND	22	80.00	18.85	18.85	18.85	18.85	11010.80	15533.60	1.411
10.26	5	SND	23	98.00	18.85	18.85	18.85	18.85	-9488.06	-15533.60	1.637
10.51	9	SND	24	0.00	18.85	18.85	18.85	18.85	-7198.24	-15533.60	2.158

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.54	18	SLE R	7	3.60	18.10	32.04	684.99	-71.33	103.37	6.70
1.54	20	SLE Q	7	3.60	18.10	32.04	732.24	-76.26	110.50	7.16
2.50	18	SLE R	7	100.00	27.52	32.04	-807.31	139.45	-66.17	6.70
2.50	20	SLE Q	7	100.00	27.52	32.04	-850.91	146.98	-69.75	7.06
4.21	18	SLE R	15	0.00	18.85	18.85	-956.62	240.08	-102.32	10.63
4.21	20	SLE Q	15	0.00	18.85	18.85	-544.18	136.57	-58.20	6.04
6.21	18	SLE R	19	14.50	18.85	18.85	-2149.54	539.47	-229.91	23.88
6.21	20	SLE Q	19	14.50	18.85	18.85	-1712.98	429.91	-183.22	19.03
6.46	18	SLE R	21	12.50	18.85	18.85	-2280.48	572.33	-243.92	25.33
6.46	20	SLE Q	21	12.50	18.85	18.85	-1963.23	492.71	-209.99	21.81
8.16	18	SLE R	21	182.00	18.85	18.85	427.04	-45.68	107.17	4.74
8.16	20	SLE Q	21	182.00	18.85	18.85	417.71	-44.68	104.83	4.64
8.96	18	SLE R	22	80.00	18.85	18.85	148.56	-15.89	37.28	1.65
8.96	20	SLE Q	22	80.00	18.85	18.85	-165.67	41.58	-17.72	1.84
10.26	18	SLE R	23	98.00	18.85	18.85	-2193.37	550.47	-234.60	24.36
10.26	20	SLE Q	23	98.00	18.85	18.85	-1938.88	486.60	-207.38	21.54
10.51	18	SLE R	24	0.00	18.85	18.85	-5497.62	1379.74	-588.02	61.07
10.51	20	SLE Q	24	0.00	18.85	18.85	-4963.58	1245.71	-530.90	55.13

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>	
19	1.54	20	SLE	Q	7	4	3.60	732.24	23.75	60.00	0.50	22.67	66.27	32.04	265.42	110.50	0.03	0.00
20	1.54	19	SLE	F	7	4	3.60	719.67	23.75	60.00	0.50	22.67	66.27	32.04	265.42	108.60	0.03	0.00
39	2.50	20	SLE	Q	7	4	100.00	-850.91	23.86	70.00	0.50	22.46	71.85	27.52	295.70	146.98	0.04	0.01
40	2.50	19	SLE	F	7	4	100.00	-841.85	23.86	70.00	0.50	22.46	71.85	27.52	295.70	145.42	0.04	0.01
62	4.21	20	SLE	Q	15	4	0.00	-544.18	25.00	84.00	0.50	20.00	82.23	18.85	303.74	136.57	0.04	0.01
64	4.21	19	SLE	F	15	4	0.00	-638.25	25.00	84.00	0.50	20.00	82.23	18.85	303.74	160.18	0.05	0.01
83	6.21	20	SLE	Q	19	4	14.50	-1712.98	25.00	84.00	0.50	20.00	82.23	18.85	303.74	429.91	0.13	0.02
84	6.21	19	SLE	F	19	4	14.50	-1815.27	25.00	84.00	0.50	20.00	82.23	18.85	303.74	455.58	0.13	0.02
103	6.46	20	SLE	Q	21	4	12.50	-1963.23	25.00	84.00	0.50	20.00	82.23	18.85	303.74	492.71	0.14	0.02
104	6.46	19	SLE	F	21	4	12.50	-2041.77	25.00	84.00	0.50	20.00	82.23	18.85	303.74	512.42	0.15	0.02
126	8.16	20	SLE	Q	21	4	182.00	417.71	25.00	84.00	0.50	20.00	82.23	18.85	303.74	104.83	0.03	0.00

Relazione di calcolo

128	8.16	19	SLE F	21	4	182.00	-419.45	25.00	84.00	0.50	20.00	82.23	18.85	303.74	105.27	0.03	0.00
150	8.96	20	SLE Q	22	4	80.00	-165.67	25.00	84.00	0.50	20.00	82.23	18.85	303.74	41.58	0.01	0.00
152	8.96	19	SLE F	22	4	80.00	-157.17	25.00	84.00	0.50	20.00	82.23	18.85	303.74	39.45	0.01	0.00
171	10.26	20	SLE Q	23	4	98.00	-1938.88	25.00	84.00	0.50	20.00	82.23	18.85	303.74	486.60	0.14	0.02
172	10.26	19	SLE F	23	4	98.00	-2005.43	25.00	84.00	0.50	20.00	82.23	18.85	303.74	503.30	0.15	0.02
191	10.51	20	SLE Q	24	4	0.00	-4963.58	25.00	84.00	0.50	20.00	82.23	18.85	303.74	1245.71	0.47	0.07
192	10.51	19	SLE F	24	4	0.00	-5105.49	25.00	84.00	0.50	20.00	82.23	18.85	303.74	1281.33	0.42	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.
5 SND	1.50	1.78	0.28	ø10/ 9 2 br.	17.45	0.50	31916.20	2.43	36537.40	36537.40	36537.40	1.145
5 SND	1.78	2.22	0.44	ø10/ 9 2 br.	17.45	0.50	33372.40	2.43	36537.40	36537.40	36537.40	1.095
5 SND	2.22	2.50	0.28	ø10/ 9 2 br.	17.45	0.50	34299.10	2.43	36537.40	36537.40	36537.40	1.065
13 SND	4.21	4.49	0.28	ø10/10 2 br.	15.71	0.50	10617.40	2.50	33883.10	35761.60	33883.10	3.191
5 SND	4.49	5.93	1.44	ø10/10 2 br.	15.71	0.50	10782.40	2.50	33883.10	35761.60	33883.10	3.142
5 SND	5.93	6.21	0.28	ø10/10 2 br.	15.71	0.50	13473.90	2.50	33883.10	35761.60	33883.10	2.515
13 SND	6.46	6.75	0.28	ø10/10 2 br.	15.71	0.50	14078.30	2.50	33883.10	35761.60	33883.10	2.407
13 SND	6.75	7.88	1.13	ø10/10 2 br.	15.71	0.50	12766.30	2.50	33883.10	35761.60	33883.10	2.654
5 SND	7.88	8.16	0.28	ø10/10 2 br.	15.71	0.50	12068.50	2.50	33883.10	35761.60	33883.10	2.808
13 SND	8.96	9.24	0.28	ø10/10 2 br.	15.71	0.50	15228.60	2.50	33883.10	35761.60	33883.10	2.225
5 SND	9.24	9.98	0.74	ø10/10 2 br.	15.71	0.50	17297.30	2.50	33883.10	35761.60	33883.10	1.959
5 SND	9.98	10.26	0.28	ø10/10 2 br.	15.71	0.50	18395.90	2.50	33883.10	35761.60	33883.10	1.842
17 SLU	10.51	10.79	0.28	ø10/10 2 br.	15.71	0.50	11086.30	2.50	33883.10	35761.60	33883.10	3.056
17 SLU	10.79	14.02	3.23	ø10/10 2 br.	15.71	0.50	10002.50	2.50	33883.10	35761.60	33883.10	3.387

Travata n. 122

Nodi: 1003 1006 -478 1007 1009 -498 1090

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	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	25.00	13.57	13.57	13.57	13.57	-400.01	-11710.60	29.276
1.50	17	SLU	1	150.00	13.57	13.57	13.57	13.57	-6385.98	-11710.60	1.834
1.75	17	SLU	2	25.00	13.57	13.57	13.57	13.57	-10005.10	-11710.60	1.170
3.80	17	SLU	3	30.17	13.57	13.57	13.57	13.57	8028.69	11710.60	1.459
6.21	17	SLU	3	271.50	13.57	13.57	13.57	13.57	-11181.80	-11710.60	1.047
6.46	17	SLU	4	12.50	13.57	13.57	13.57	13.57	-5263.72	-11710.60	2.225
6.80	17	SLU	4	46.12	13.57	13.57	13.57	13.57	-4744.71	-11710.60	2.468
9.15	17	SLU	4	281.50	31.67	31.67	31.67	31.67	-6896.87	-26530.20	3.847
9.40	17	SLU	5	12.50	31.67	31.67	31.67	31.67	-13838.30	-26530.20	1.917
11.96	17	SLU	6	0.00	18.10	18.10	18.10	18.10	11718.40	15421.10	1.316
13.81	17	SLU	6	185.00	18.10	18.10	18.10	18.10	-11455.40	-15421.10	1.346

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	5	SND	1	25.00	13.57	13.57	13.57	13.57	8286.15	11307.80	1.365
1.50	5	SND	1	150.00	13.57	13.57	13.57	13.57	-10333.90	-11307.80	1.094
1.75	13	SND	2	25.00	13.57	13.57	13.57	13.57	-8700.39	-11307.80	1.300
3.80	13	SND	3	30.17	13.57	13.57	13.57	13.57	5421.47	11307.80	2.086
6.21	5	SND	3	271.50	13.57	13.57	13.57	13.57	-9613.02	-11307.80	1.176
6.46	13	SND	4	12.50	13.57	13.57	13.57	13.57	-7803.10	-11307.80	1.449
6.80	13	SND	4	46.12	13.57	13.57	13.57	13.57	-7291.40	-11307.80	1.551
9.15	5	SND	4	281.50	31.67	31.67	31.67	31.67	-8533.62	-25784.20	3.021
9.40	13	SND	5	12.50	31.67	31.67	31.67	31.67	-12267.10	-25784.20	2.102
11.96	13	SND	6	0.00	18.10	18.10	18.10	18.10	8603.37	14930.50	1.735
13.81	5	SND	6	185.00	18.10	18.10	18.10	18.10	-11485.70	-14930.50	1.300

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>
0.25	18	SLE R	1	25.00	13.57	13.57	-282.57	97.66	-34.76	3.79
0.25	20	SLE Q	1	25.00	13.57	13.57	-214.25	74.05	-26.36	2.87
1.50	18	SLE R	1	150.00	13.57	13.57	-4530.32	1565.75	-557.30	60.74
1.50	20	SLE Q	1	150.00	13.57	13.57	-3932.42	1359.10	-483.75	52.73
1.75	18	SLE R	2	25.00	13.57	13.57	-7086.01	2449.03	-871.70	95.01
1.75	20	SLE Q	2	25.00	13.57	13.57	-6080.31	2101.45	-747.98	81.53
3.80	18	SLE R	3	30.17	13.57	13.57	5691.33	-700.13	1967.01	76.31
3.80	20	SLE Q	3	30.17	13.57	13.57	4899.58	-602.73	1693.37	65.69
6.21	18	SLE R	3	271.50	13.57	13.57	-7922.88	2738.27	-974.65	106.23
6.21	20	SLE Q	3	271.50	13.57	13.57	-6790.39	2346.86	-835.33	91.05

Relazione di calcolo

6.46	18	SLE R	4	12.50	13.57	13.57	-3740.40	1292.74	-460.13	50.15
6.46	20	SLE Q	4	12.50	13.57	13.57	-3159.73	1092.05	-388.70	42.37
6.80	18	SLE R	4	46.12	13.57	13.57	-3372.66	1165.64	-414.89	45.22
6.80	20	SLE Q	4	46.12	13.57	13.57	-2850.14	985.05	-350.62	38.22
9.15	18	SLE R	4	281.50	31.67	31.67	-4835.66	729.18	-395.37	38.85
9.15	20	SLE Q	4	281.50	31.67	31.67	-4208.04	634.54	-344.05	33.81
9.40	18	SLE R	5	12.50	31.67	31.67	-9692.86	1461.61	-792.50	77.88
9.40	20	SLE Q	5	12.50	31.67	31.67	-8540.57	1287.86	-698.28	68.62
11.96	18	SLE R	6	0.00	18.10	18.10	8168.11	-890.13	2133.33	92.94
11.96	20	SLE Q	6	0.00	18.10	18.10	7334.10	-799.24	1915.51	83.45
13.81	18	SLE R	6	185.00	18.10	18.10	-7995.84	2088.34	-871.36	90.98
13.81	20	SLE Q	6	185.00	18.10	18.10	-7027.02	1835.30	-765.78	79.95

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>
19	0.25	20	SLE Q	1	4	25.00	-214.25	23.00	208.00	0.50	24.00	142.41	13.57	316.46	74.05	0.02	0.01
20	0.25	19	SLE F	1	4	25.00	-234.15	23.00	208.00	0.50	24.00	142.41	13.57	316.46	80.93	0.02	0.01
41	1.50	20	SLE Q	1	4	150.00	-3932.42	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1359.10	0.48	0.12
42	1.50	19	SLE F	1	4	150.00	-4102.68	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1417.95	0.42	0.10
61	1.75	20	SLE Q	2	4	25.00	-6080.31	23.00	208.00	0.50	24.00	142.41	13.57	316.46	2101.45	0.84	0.20
62	1.75	19	SLE F	2	4	25.00	-6367.80	23.00	208.00	0.50	24.00	142.41	13.57	316.46	2200.81	0.80	0.19
81	3.80	20	SLE Q	3	4	30.17	4899.58	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1693.37	0.64	0.16
82	3.80	19	SLE F	3	4	30.17	5125.52	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1771.46	0.59	0.14
101	6.21	20	SLE Q	3	4	271.50	-6790.39	23.00	208.00	0.50	24.00	142.41	13.57	316.46	2346.86	0.96	0.23
102	6.21	19	SLE F	3	4	271.50	-7114.36	23.00	208.00	0.50	24.00	142.41	13.57	316.46	2458.83	0.93	0.22
124	6.46	20	SLE Q	4	4	12.50	-3159.73	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1092.05	0.35	0.09
125	6.46	19	SLE F	4	4	12.50	-3326.67	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1149.75	0.33	0.08
147	6.80	20	SLE Q	4	4	46.12	-2850.14	23.00	208.00	0.50	24.00	142.41	13.57	316.46	985.05	0.30	0.07
148	6.80	19	SLE F	4	4	46.12	-3000.38	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1036.98	0.30	0.07
168	9.15	20	SLE Q	4	4	281.50	-4208.04	23.00	69.33	0.50	24.00	67.62	31.67	285.28	634.54	0.22	0.02
169	9.15	19	SLE F	4	4	281.50	-4384.33	23.00	69.33	0.50	24.00	67.62	31.67	285.28	661.13	0.19	0.02
188	9.40	20	SLE Q	5	4	12.50	-8540.57	23.00	69.33	0.50	24.00	67.62	31.67	285.28	1287.86	0.53	0.06
189	9.40	19	SLE F	5	4	12.50	-8863.65	23.00	69.33	0.50	24.00	67.62	31.67	285.28	1336.58	0.51	0.06
208	11.96	20	SLE Q	6	4	0.00	7334.10	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1915.51	0.79	0.12
209	11.96	19	SLE F	6	4	0.00	7563.78	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1975.49	0.75	0.11
229	13.81	20	SLE Q	6	4	185.00	-7027.02	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1835.30	0.75	0.11
230	13.81	19	SLE F	6	4	185.00	-7294.14	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1905.07	0.72	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.
5 SND	0.25	0.53	0.28	ø10/15 2 br.	10.47	0.50	12522.00	2.50	22588.70	35761.60	22588.70	1.804
5 SND	0.53	1.22	0.69	ø10/15 2 br.	10.47	0.50	16063.90	2.50	22588.70	35761.60	22588.70	1.406
5 SND	1.22	1.50	0.28	ø10/15 2 br.	10.47	0.50	17501.20	2.50	22588.70	35761.60	22588.70	1.291
17 SLU	1.75	2.03	0.28	ø10/15 2 br.	10.47	0.50	15842.40	2.50	22588.70	35761.60	22588.70	1.426
17 SLU	2.03	5.93	3.90	ø10/15 2 br.	10.47	0.50	14102.10	2.50	22588.70	35761.60	22588.70	1.602
17 SLU	5.93	6.21	0.28	ø10/15 2 br.	10.47	0.50	16054.70	2.50	22588.70	35761.60	22588.70	1.407
17 SLU	6.46	6.75	0.28	ø10/15 2 br.	10.47	0.50	8772.37	2.50	22588.70	35761.60	22588.70	2.575
5 SND	6.75	8.88	2.13	ø10/15 2 br.	10.47	0.50	8176.19	2.50	22588.70	35761.60	22588.70	2.763
17 SLU	8.88	9.15	0.28	ø10/15 2 br.	10.47	0.50	9986.61	2.50	22588.70	35761.60	22588.70	2.262
17 SLU	9.40	9.69	0.28	ø10/15 2 br.	10.47	0.50	18371.00	2.50	22588.70	35761.60	22588.70	1.230
17 SLU	9.69	13.53	3.85	ø10/15 2 br.	10.47	0.50	17423.80	2.50	22588.70	35761.60	22588.70	1.296
17 SLU	13.53	13.81	0.28	ø10/15 2 br.	10.47	0.50	19799.80	2.50	22588.70	35761.60	22588.70	1.141

Travata n. 123

Nodi: -37672 -37673 -38666 -38667 -38668 -38692 -37847 -37674 -37823 -37728 -37729 -37724 -37725 -37675 1093 -37676
-38216 -38217 -38218 -38698 -37912 -37677 1094 -38440 -38441 -38442 -37678

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>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	25.00	22.62	22.62	22.62	22.62	877.44	19123.70	21.795
1.50	17	SLU	1	150.00	22.62	22.62	22.62	22.62	-1518.66	-19123.70	12.592
2.75	17	SLU	7	0.00	22.62	22.62	22.62	22.62	-2458.23	-19123.70	7.779
5.34	17	SLU	8	184.25	45.24	40.72	45.24	40.72	-2611.74	-37603.40	14.398
6.34	17	SLU	14	0.00	45.24	40.72	45.24	40.72	-1917.37	-37603.40	19.612
9.16	17	SLU	14	282.00	22.62	18.10	22.62	18.10	-2098.88	-19095.90	9.098
10.26	17	SLU	20	0.00	22.62	18.10	22.62	18.10	-3336.13	-19095.90	5.724
13.06	17	SLU	22	190.00	22.62	18.10	22.62	18.10	-2119.70	-19095.90	9.009

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	5	SND	1	25.00	22.62	22.62	22.62	22.62	16472.80	18546.50	1.126
1.50	5	SND	1	150.00	22.62	22.62	22.62	22.62	-18197.50	-18546.50	1.019
2.75	13	SND	7	0.00	22.62	22.62	22.62	22.62	-15626.10	-18546.50	1.187
5.34	5	SND	8	184.25	45.24	40.72	45.24	40.72	-15999.10	-36541.40	2.284
6.34	5	SND	14	0.00	45.24	40.72	45.24	40.72	12442.60	33151.70	2.664
9.16	13	SND	14	282.00	22.62	18.10	22.62	18.10	12333.90	14985.40	1.215
10.26	13	SND	20	0.00	22.62	18.10	22.62	18.10	-14967.40	-18446.40	1.232
13.06	13	SND	22	190.00	22.62	18.10	22.62	18.10	12764.40	14985.40	1.174

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>
0.25	18	SLE R	1	25.00	22.62	22.62	621.78	-60.91	130.55	6.19
0.25	20	SLE Q	1	25.00	22.62	22.62	592.83	-58.08	124.47	5.90
1.50	18	SLE R	1	150.00	22.62	22.62	-1081.15	226.99	-105.92	10.76
1.50	20	SLE Q	1	150.00	22.62	22.62	-1030.77	216.42	-100.98	10.26
2.75	18	SLE R	7	0.00	22.62	22.62	-1715.32	360.14	-168.04	17.07
2.75	20	SLE Q	7	0.00	22.62	22.62	-1533.38	321.94	-150.22	15.26
5.34	18	SLE R	8	184.25	45.24	40.72	-1862.16	197.72	-130.15	12.32
5.34	20	SLE Q	8	184.25	45.24	40.72	-1678.61	178.23	-117.33	11.11
6.34	18	SLE R	14	0.00	45.24	40.72	-1361.08	144.52	-95.13	9.00
6.34	20	SLE Q	14	0.00	45.24	40.72	-1169.42	124.17	-81.74	7.74
9.16	18	SLE R	14	282.00	22.62	18.10	-1491.70	314.28	-159.93	15.93
9.16	20	SLE Q	14	282.00	22.62	18.10	-1278.82	269.43	-137.11	13.66
10.26	18	SLE R	20	0.00	22.62	18.10	-2333.17	491.56	-250.15	24.92
10.26	20	SLE Q	20	0.00	22.62	18.10	-2150.69	453.12	-230.59	22.97
13.06	18	SLE R	22	190.00	22.62	18.10	-1473.03	310.35	-157.93	15.73
13.06	20	SLE Q	22	190.00	22.62	18.10	-1267.54	267.05	-135.90	13.54

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 off} <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
19	0.25	20	SLE Q	1	4	25.00	592.83	23.00	104.00	0.50	24.00	77.51	22.62	296.98	124.47	0.04	0.00
20	0.25	19	SLE F	1	4	25.00	599.87	23.00	104.00	0.50	24.00	77.51	22.62	296.98	125.94	0.04	0.00
39	1.50	20	SLE Q	1	4	150.00	-1030.77	23.00	104.00	0.50	24.00	77.51	22.62	296.98	216.42	0.06	0.01
40	1.50	19	SLE F	1	4	150.00	-1043.43	23.00	104.00	0.50	24.00	77.51	22.62	296.98	219.07	0.06	0.01
59	2.75	20	SLE Q	7	4	0.00	-1533.38	23.00	104.00	0.50	24.00	77.51	22.62	296.98	321.94	0.09	0.01
60	2.75	19	SLE F	7	4	0.00	-1586.23	23.00	104.00	0.50	24.00	77.51	22.62	296.98	333.04	0.10	0.01
79	5.34	20	SLE Q	8	4	184.25	-1678.61	23.00	46.22	0.50	24.00	60.29	45.24	269.40	178.23	0.05	0.01
80	5.34	19	SLE F	8	4	184.25	-1730.18	23.00	46.22	0.50	24.00	60.29	45.24	269.40	183.71	0.05	0.01
99	6.34	20	SLE Q	14	4	0.00	-1169.42	23.00	46.22	0.50	24.00	60.29	45.24	269.40	124.17	0.04	0.00
100	6.34	19	SLE F	14	4	0.00	-1224.50	23.00	46.22	0.50	24.00	60.29	45.24	269.40	130.02	0.04	0.00
119	9.16	20	SLE Q	14	4	282.00	-1278.82	23.00	104.00	0.50	24.00	76.80	22.62	290.29	269.43	0.08	0.01
120	9.16	19	SLE F	14	4	282.00	-1339.29	23.00	104.00	0.50	24.00	76.80	22.62	290.29	282.17	0.08	0.01
139	10.26	20	SLE Q	20	4	0.00	-2150.69	23.00	104.00	0.50	24.00	76.80	22.62	290.29	453.12	0.13	0.02
140	10.26	19	SLE F	20	4	0.00	-2202.35	23.00	104.00	0.50	24.00	76.80	22.62	290.29	464.00	0.14	0.02
159	13.06	20	SLE Q	22	4	190.00	-1267.54	23.00	104.00	0.50	24.00	76.80	22.62	290.29	267.05	0.08	0.01
160	13.06	19	SLE F	22	4	190.00	-1326.84	23.00	104.00	0.50	24.00	76.80	22.62	290.29	279.55	0.08	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
13 SND	0.25	0.53	0.28	ø10/10 2 br.	15.71	0.50	26134.10	2.50	33883.10	35761.60	33883.10	1.297
5 SND	0.53	1.22	0.69	ø10/10 2 br.	15.71	0.50	27616.60	2.50	33883.10	35761.60	33883.10	1.227
5 SND	1.22	1.50	0.28	ø10/10 2 br.	15.71	0.50	28492.00	2.50	33883.10	35761.60	33883.10	1.189
13 SND	2.75	3.03	0.28	ø10/15 2 br.	10.47	0.50	15784.10	2.50	22588.70	35761.60	22588.70	1.431
13 SND	3.03	5.06	2.03	ø10/15 2 br.	10.47	0.50	14908.80	2.50	22588.70	35761.60	22588.70	1.515
5 SND	5.06	5.34	0.28	ø10/15 2 br.	10.47	0.50	14827.70	2.50	22588.70	35761.60	22588.70	1.523
13 SND	6.34	6.62	0.28	ø10/15 2 br.	10.47	0.50	11881.40	2.50	22588.70	35761.60	22588.70	1.901
5 SND	6.62	8.88	2.26	ø10/15 2 br.	10.47	0.50	11350.40	2.50	22588.70	35761.60	22588.70	1.990
5 SND	8.88	9.16	0.28	ø10/15 2 br.	10.47	0.50	11959.00	2.50	22588.70	35761.60	22588.70	1.889
13 SND	10.26	10.54	0.28	ø10/15 2 br.	10.47	0.50	13866.30	2.50	22588.70	35761.60	22588.70	1.629
13 SND	10.54	12.78	2.24	ø10/15 2 br.	10.47	0.50	12991.00	2.50	22588.70	35761.60	22588.70	1.739
5 SND	12.78	13.06	0.28	ø10/15 2 br.	10.47	0.50	13235.40	2.50	22588.70	35761.60	22588.70	1.707

Travata n. 124

Nodi: 1018 1003 -37672

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	Afe S	Afe I	AfeP S	AfeP I	My	MRdy	Sic.
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<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	17	SLU	1	556.00	12.57	9.42	12.57	9.42	-572.62	-10761.60	18.794
5.18	17	SLU	1	38.00	12.57	9.42	12.57	9.42	-883.84	-10761.60	12.176
5.98	17	SLU	2	463.14	12.57	9.42	12.57	9.42	-2906.27	-10761.60	3.703
9.81	17	SLU	2	80.00	12.57	9.42	12.57	9.42	-1057.72	-10761.60	10.174

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SND	1	556.00	12.57	9.42	12.57	9.42	3876.53	7910.63	2.041
5.18	9	SND	1	38.00	12.57	9.42	12.57	9.42	3827.66	7910.63	2.067
5.98	9	SND	2	463.14	12.57	9.42	12.57	9.42	-8668.86	-10370.60	1.196
9.81	9	SND	2	80.00	12.57	9.42	12.57	9.42	6318.14	7910.63	1.252

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>
0.00	18	SLE R	1	556.00	12.57	9.42	-451.99	169.88	-71.88	7.48
0.00	20	SLE Q	1	556.00	12.57	9.42	-465.44	174.94	-74.02	7.70
5.18	18	SLE R	1	38.00	12.57	9.42	-673.13	253.00	-107.05	11.14
5.18	20	SLE Q	1	38.00	12.57	9.42	-662.31	248.94	-105.33	10.96
5.98	18	SLE R	2	463.14	12.57	9.42	-2036.19	765.32	-323.83	33.69
5.98	20	SLE Q	2	463.14	12.57	9.42	-2025.67	761.37	-322.15	33.52
9.81	18	SLE R	2	80.00	12.57	9.42	-688.15	258.65	-109.44	11.39
9.81	20	SLE Q	2	80.00	12.57	9.42	-701.63	263.71	-111.58	11.61

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
19	0.00	20	SLE Q	1	3	556.00	-465.44	25.00	108.00	0.50	20.00	88.74	12.57	243.42	174.94	0.05	0.01
20	0.00	19	SLE F	1	3	556.00	-462.43	25.00	108.00	0.50	20.00	88.74	12.57	243.42	173.81	0.05	0.01
39	5.18	20	SLE Q	1	3	38.00	-662.31	25.00	108.00	0.50	20.00	88.74	12.57	243.42	248.94	0.07	0.01
40	5.18	19	SLE F	1	3	38.00	-664.57	25.00	108.00	0.50	20.00	88.74	12.57	243.42	249.79	0.07	0.01
59	5.98	20	SLE Q	2	3	463.14	-2025.67	25.00	108.00	0.50	20.00	88.74	12.57	243.42	761.37	0.22	0.03
60	5.98	19	SLE F	2	3	463.14	-2028.50	25.00	108.00	0.50	20.00	88.74	12.57	243.42	762.43	0.22	0.03
79	9.81	20	SLE Q	2	3	80.00	-701.63	25.00	108.00	0.50	20.00	88.74	12.57	243.42	263.71	0.08	0.01
80	9.81	19	SLE F	2	3	80.00	-698.10	25.00	108.00	0.50	20.00	88.74	12.57	243.42	262.39	0.08	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>		
9	SND	0.00	0.28	0.28	ø8/15 2 br.	6.70	0.40	2256.99	2.50	14456.80	28609.20	14456.80	6.405
1	SND	0.28	4.90	4.62	ø8/15 2 br.	6.70	0.40	2254.60	2.50	14456.80	28609.20	14456.80	6.412
1	SND	4.90	5.18	0.28	ø8/15 2 br.	6.70	0.40	2333.00	2.50	14456.80	28609.20	14456.80	6.197
9	SND	5.98	6.26	0.28	ø8/15 2 br.	6.70	0.40	6122.79	2.50	14456.80	28609.20	14456.80	2.361
9	SND	6.26	9.53	3.27	ø8/15 2 br.	6.70	0.40	5777.69	2.50	14456.80	28609.20	14456.80	2.502
1	SND	9.53	9.81	0.28	ø8/15 2 br.	6.70	0.40	5431.65	2.50	14456.80	28609.20	14456.80	2.662

Travata n. 125

Nodi: 1021 1006 -37673

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
	3R	40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	17	SLU	1	556.00	9.42	6.03	9.42	6.03	-3559.27	-8189.89	2.301
1.24	17	SLU	1	432.50	9.42	6.03	9.42	6.03	1365.68	5394.78	3.950
4.94	17	SLU	1	62.00	9.42	6.03	9.42	6.03	-3045.40	-8189.89	2.689
5.44	17	SLU	1	12.00	9.42	6.03	9.42	6.03	-3045.40	-8189.89	2.689
10.36	17	SLU	2	25.00	9.42	6.03	9.42	6.03	126.23	5394.78	42.736

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	9	SND	1	556.00	9.42	6.03	9.42	6.03	-6249.28	-7863.31	1.258
1.24	1	SND	1	432.50	9.42	6.03	9.42	6.03	2657.52	5145.34	1.936
4.94	1	SND	1	62.00	9.42	6.03	9.42	6.03	-5746.50	-7863.31	1.368
5.44	1	SND	1	12.00	9.42	6.03	9.42	6.03	-5746.50	-7863.31	1.368
10.36	13	SND	2	25.00	9.42	6.03	9.42	6.03	4177.91	5145.34	1.232

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _f sup	σ _f inf	σ _c
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<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.00	18	SLE R	1	556.00	9.42	6.03	-2445.15	1215.09	-444.43	48.07
0.00	20	SLE Q	1	556.00	9.42	6.03	-2437.89	1211.49	-443.11	47.92
1.24	18	SLE R	1	432.50	9.42	6.03	939.15	-153.77	716.55	19.92
1.24	20	SLE Q	1	432.50	9.42	6.03	940.65	-154.02	717.69	19.95
4.94	18	SLE R	1	62.00	9.42	6.03	-2097.05	1042.11	-381.16	41.22
4.94	20	SLE Q	1	62.00	9.42	6.03	-2109.10	1048.09	-383.35	41.46
5.44	18	SLE R	1	12.00	9.42	6.03	-2097.05	1042.11	-381.16	41.22
5.44	20	SLE Q	1	12.00	9.42	6.03	-2109.10	1048.09	-383.35	41.46
10.36	18	SLE R	2	25.00	9.42	6.03	78.59	-12.87	59.97	1.67
10.36	20	SLE Q	2	25.00	9.42	6.03	82.33	-13.48	62.82	1.75

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
21	0.00	20	SLE Q	1	3	556.00	-2437.89	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1211.49	0.39	0.07
22	0.00	19	SLE F	1	3	556.00	-2440.68	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1212.87	0.35	0.06
46	1.24	20	SLE Q	1	3	432.50	940.65	27.00	164.00	0.50	16.00	127.53	6.03	277.19	717.69	0.21	0.05
48	1.24	19	SLE F	1	3	432.50	939.90	27.00	164.00	0.50	16.00	127.53	6.03	277.19	717.12	0.21	0.05
67	4.94	20	SLE Q	1	3	62.00	-2109.10	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1048.09	0.31	0.05
68	4.94	19	SLE F	1	3	62.00	-2104.99	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1046.05	0.30	0.05
87	5.44	20	SLE Q	1	3	12.00	-2109.10	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1048.09	0.31	0.05
88	5.44	19	SLE F	1	3	12.00	-2104.99	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1046.05	0.30	0.05
109	10.36	20	SLE Q	2	3	25.00	82.33	27.00	164.00	0.50	16.00	127.53	6.03	277.19	62.82	0.02	0.00
111	10.36	19	SLE F	2	3	25.00	81.38	27.00	164.00	0.50	16.00	127.53	6.03	277.19	62.09	0.02	0.00

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>	
9 SND	0.00	0.28	0.28	ø8/15 2 br.	6.70	0.40	4618.68	2.50	14456.80	28609.20	14456.80	3.130
9 SND	0.28	4.66	4.38	ø8/15 2 br.	6.70	0.40	4273.58	2.50	14456.80	28609.20	14456.80	3.383
1 SND	4.66	4.94	0.28	ø8/15 2 br.	6.70	0.40	4485.57	2.50	14456.80	28609.20	14456.80	3.223
1 SND	5.44	5.72	0.28	ø8/15 2 br.	6.70	0.40	4485.57	2.50	14456.80	28609.20	14456.80	3.223
13 SND	5.72	10.08	4.36	ø8/15 2 br.	6.70	0.40	2469.46	2.50	14456.80	28609.20	14456.80	5.854
5 SND	10.08	10.36	0.28	ø8/15 2 br.	6.70	0.40	2109.24	2.50	14456.80	28609.20	14456.80	6.854

Travata n. 133

Nodi: -496 -497 -498

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	TP	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
5R		28.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	17	SLU	1	150.00	6.03	6.03	6.03	6.03	-4044.54	-5269.62	1.303
2.75	17	SLU	2	281.08	6.03	6.03	6.03	6.03	3493.00	5269.62	1.509
5.52	17	SLU	2	3.60	6.03	6.03	6.03	6.03	-3259.02	-5269.62	1.617

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.00	1	SND	1	150.00	6.03	6.03	6.03	6.03	-3673.69	-5069.32	1.380
2.75	1	SND	2	281.08	6.03	6.03	6.03	6.03	2546.99	5069.32	1.990
5.52	9	SND	2	3.60	6.03	6.03	6.03	6.03	-3401.89	-5069.32	1.490

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>
0.00	18	SLE R	1	150.00	6.03	6.03	-2757.46	2129.31	-658.64	74.89
0.00	20	SLE Q	1	150.00	6.03	6.03	-2717.12	2098.16	-649.01	73.79
2.75	18	SLE R	2	281.08	6.03	6.03	2382.12	-568.99	1839.47	64.69
2.75	20	SLE Q	2	281.08	6.03	6.03	2376.30	-567.60	1834.98	64.54
5.52	18	SLE R	2	3.60	6.03	6.03	-2216.46	1711.54	-529.42	60.19
5.52	20	SLE Q	2	3.60	6.03	6.03	-2267.02	1750.59	-541.50	61.57

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
19	0.00	20	SLE Q	1	5	150.00	-2717.12	27.00	104.00	0.50	16.00	102.37	6.03	182.36	2098.16	0.80	0.14
20	0.00	19	SLE F	1	5	150.00	-2729.15	27.00	104.00	0.50	16.00	102.37	6.03	182.36	2107.44	0.69	0.12
39	2.75	20	SLE Q	2	5	281.08	2376.30	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1834.98	0.67	0.12
40	2.75	19	SLE F	2	5	281.08	2377.79	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1836.13	0.56	0.10
59	5.52	20	SLE Q	2	5	3.60	-2267.02	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1750.59	0.63	0.11

Relazione di calcolo

60	5.52	19	SLE F	2	5	3.60	-2252.35	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1739.26	0.52	0.09
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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.
17 SLU	0.04	0.32	0.28	ø8/15 2 br.	6.70	0.28	4053.80	2.50	14456.80	20026.50	14456.80	3.566
17 SLU	0.32	5.24	4.93	ø8/15 2 br.	6.70	0.28	4122.62	2.50	14456.80	20026.50	14456.80	3.507
17 SLU	5.24	5.52	0.28	ø8/15 2 br.	6.70	0.28	4594.02	2.50	14456.80	20026.50	14456.80	3.147

Travata n. 201

Nodi: 2001 2002 2011

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.80	17	SLU	1	461.00	12.57	9.42	12.57	9.42	-1694.55	-10761.60	6.351
4.61	17	SLU	1	80.00	12.57	9.42	12.57	9.42	-2208.58	-10761.60	4.873
5.41	17	SLU	2	519.00	12.57	9.42	12.57	9.42	-1008.23	-10761.60	10.674
10.60	17	SLU	2	0.00	12.57	9.42	12.57	9.42	-491.91	-10761.60	21.877

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.80	1	SND	1	461.00	12.57	9.42	12.57	9.42	7180.40	7910.63	1.102
4.61	1	SND	1	80.00	12.57	9.42	12.57	9.42	-9214.66	-10370.60	1.125
5.41	1	SND	2	519.00	12.57	9.42	12.57	9.42	4158.56	7910.63	1.902
10.60	13	SND	2	0.00	12.57	9.42	12.57	9.42	4075.09	7910.63	1.941

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/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
0.80	18	SLE R	1	461.00	12.57	9.42	-1157.08	434.90	-184.02	19.14
0.80	20	SLE Q	1	461.00	12.57	9.42	-1175.77	441.92	-186.99	19.45
4.61	18	SLE R	1	80.00	12.57	9.42	-1527.88	574.27	-242.99	25.28
4.61	20	SLE Q	1	80.00	12.57	9.42	-1508.16	566.86	-239.85	24.95
5.41	18	SLE R	2	519.00	12.57	9.42	-768.72	288.93	-122.25	12.72
5.41	20	SLE Q	2	519.00	12.57	9.42	-771.36	289.92	-122.67	12.76
10.60	18	SLE R	2	0.00	12.57	9.42	-390.68	146.84	-62.13	6.46
10.60	20	SLE Q	2	0.00	12.57	9.42	-390.48	146.77	-62.10	6.46

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 off} <cmq>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
19	0.80	20	SLE Q	1	3	461.00	-1175.77	25.00	108.00	0.50	20.00	88.74	12.57	243.42	441.92	0.13	0.02
20	0.80	19	SLE F	1	3	461.00	-1170.89	25.00	108.00	0.50	20.00	88.74	12.57	243.42	440.09	0.13	0.02
39	4.61	20	SLE Q	1	3	80.00	-1508.16	25.00	108.00	0.50	20.00	88.74	12.57	243.42	566.86	0.17	0.02
40	4.61	19	SLE F	1	3	80.00	-1513.28	25.00	108.00	0.50	20.00	88.74	12.57	243.42	568.78	0.17	0.02
59	5.41	20	SLE Q	2	3	519.00	-771.36	25.00	108.00	0.50	20.00	88.74	12.57	243.42	289.92	0.08	0.01
60	5.41	19	SLE F	2	3	519.00	-770.48	25.00	108.00	0.50	20.00	88.74	12.57	243.42	289.59	0.08	0.01
79	10.60	20	SLE Q	2	3	0.00	-390.48	25.00	108.00	0.50	20.00	88.74	12.57	243.42	146.77	0.04	0.01
80	10.60	19	SLE F	2	3	0.00	-390.73	25.00	108.00	0.50	20.00	88.74	12.57	243.42	146.86	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.
9 SND	0.80	1.08	0.28	ø8/15 2 br.	6.70	0.40	6308.12	2.50	14456.80	28609.20	14456.80	2.292
1 SND	1.08	4.33	3.25	ø8/15 2 br.	6.70	0.40	6137.08	2.50	14456.80	28609.20	14456.80	2.356
1 SND	4.33	4.61	0.28	ø8/15 2 br.	6.70	0.40	6482.61	2.50	14456.80	28609.20	14456.80	2.230
13 SND	5.41	5.69	0.28	ø8/15 2 br.	6.70	0.40	2465.95	2.50	14456.80	28609.20	14456.80	5.863
13 SND	5.69	10.32	4.63	ø8/15 2 br.	6.70	0.40	2387.55	2.50	14456.80	28609.20	14456.80	6.055
5 SND	10.32	10.60	0.28	ø8/15 2 br.	6.70	0.40	2319.18	2.50	14456.80	28609.20	14456.80	6.234

Travata n. 202

Nodi: 2019 2005 2020

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	516.00	9.42	9.42	9.42	9.42	-636.36	-8192.95	12.875
5.17	17	SLU	1	24.00	9.42	9.42	9.42	9.42	-959.24	-8192.95	8.541
5.47	17	SLU	2	513.00	9.42	9.42	9.42	9.42	-3402.10	-8192.95	2.408
8.79	17	SLU	2	181.06	9.42	9.42	9.42	9.42	2220.47	8192.95	3.690
10.60	17	SLU	2	0.00	9.42	9.42	9.42	9.42	-3871.33	-8192.95	2.116

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	9	SND	1	516.00	9.42	9.42	9.42	9.42	-4856.93	-7893.54	1.625
5.17	1	SND	1	24.00	9.42	9.42	9.42	9.42	-4810.46	-7893.54	1.641
5.47	9	SND	2	513.00	9.42	9.42	9.42	9.42	-5594.40	-7893.54	1.411
8.79	9	SND	2	181.06	9.42	9.42	9.42	9.42	2544.09	7893.54	3.103
10.60	1	SND	2	0.00	9.42	9.42	9.42	9.42	-6081.85	-7893.54	1.298

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>
0.25	18	SLE R	1	516.00	9.42	9.42	-495.42	245.53	-80.31	8.97
0.25	20	SLE Q	1	516.00	9.42	9.42	-471.82	233.83	-76.48	8.55
5.17	18	SLE R	1	24.00	9.42	9.42	-708.65	351.21	-114.87	12.84
5.17	20	SLE Q	1	24.00	9.42	9.42	-734.34	363.94	-119.04	13.30
5.47	18	SLE R	2	513.00	9.42	9.42	-2342.68	1161.02	-379.75	42.44
5.47	20	SLE Q	2	513.00	9.42	9.42	-2383.38	1181.20	-386.35	43.17
8.79	18	SLE R	2	181.06	9.42	9.42	1523.99	-247.04	755.29	27.61
8.79	20	SLE Q	2	181.06	9.42	9.42	1529.70	-247.97	758.12	27.71
10.60	18	SLE R	2	0.00	9.42	9.42	-2662.60	1319.57	-431.61	48.23
10.60	20	SLE Q	2	0.00	9.42	9.42	-2625.95	1301.41	-425.67	47.57

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>
19	0.25	20	SLE Q	1	3	516.00	-471.82	25.00	162.00	0.50	20.00	104.68	9.42	257.66	233.83	0.07	0.01
20	0.25	19	SLE F	1	3	516.00	-478.05	25.00	162.00	0.50	20.00	104.68	9.42	257.66	236.92	0.07	0.01
39	5.17	20	SLE Q	1	3	24.00	-734.34	25.00	162.00	0.50	20.00	104.68	9.42	257.66	363.94	0.11	0.02
40	5.17	19	SLE F	1	3	24.00	-727.53	25.00	162.00	0.50	20.00	104.68	9.42	257.66	360.56	0.11	0.02
61	5.47	20	SLE Q	2	3	513.00	-2383.38	25.00	162.00	0.50	20.00	104.68	9.42	257.66	1181.20	0.37	0.07
62	5.47	19	SLE F	2	3	513.00	-2372.43	25.00	162.00	0.50	20.00	104.68	9.42	257.66	1175.77	0.34	0.06
87	8.79	20	SLE Q	2	3	181.06	1529.70	25.00	162.00	0.50	20.00	104.68	9.42	257.66	758.12	0.22	0.04
88	8.79	19	SLE F	2	3	181.06	1528.13	25.00	162.00	0.50	20.00	104.68	9.42	257.66	757.34	0.22	0.04
111	10.60	20	SLE Q	2	3	0.00	-2625.95	25.00	162.00	0.50	20.00	104.68	9.42	257.66	1301.41	0.43	0.08
112	10.60	19	SLE F	2	3	0.00	-2635.86	25.00	162.00	0.50	20.00	104.68	9.42	257.66	1306.32	0.38	0.07

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SND	0.25	0.53	0.28	ø8/16 2 br.	6.28	0.40	2355.19	2.50	13553.20	28609.20	13553.20	5.755
1 SND	0.53	4.88	4.35	ø8/16 2 br.	6.28	0.40	2380.70	2.50	13553.20	28609.20	13553.20	5.693
1 SND	4.88	5.16	0.28	ø8/16 2 br.	6.28	0.40	2459.10	2.50	13553.20	28609.20	13553.20	5.511
9 SND	5.66	5.94	0.28	ø8/16 2 br.	6.28	0.40	4183.02	2.50	13553.20	28609.20	13553.20	3.240
17 SLU	5.94	10.32	4.38	ø8/16 2 br.	6.28	0.40	4193.04	2.50	13553.20	28609.20	13553.20	3.232
17 SLU	10.32	10.60	0.28	ø8/16 2 br.	6.28	0.40	4695.64	2.50	13553.20	28609.20	13553.20	2.886

Travata n. 203

Nodi: -542 -543 -37683

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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	17	SLU	1	368.00	6.03	6.03	6.03	6.03	364.85	5395.92	14.789
5.02	17	SLU	2	3.60	6.03	6.03	6.03	6.03	-2367.57	-5395.92	2.279

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.00	1	SND	1	368.00	6.03	6.03	6.03	6.03	1853.16	5143.73	2.776
5.02	1	SND	2	3.60	6.03	6.03	6.03	6.03	-3426.61	-5143.73	1.501

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	18	SLE R	1	368.00	6.03	6.03	240.06	-44.51	183.15	5.50
0.00	20	SLE Q	1	368.00	6.03	6.03	122.40	-22.70	93.38	2.80
5.02	18	SLE R	2	3.60	6.03	6.03	-1685.41	1285.85	-312.52	38.59
5.02	20	SLE Q	2	3.60	6.03	6.03	-1555.17	1186.49	-288.37	35.61

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>
20	0.00	20	SLE Q	1	3	368.00	122.40	27.00	164.00	0.50	16.00	126.13	6.03	271.92	93.38	0.03	0.01
22	0.00	19	SLE F	1	3	368.00	155.80	27.00	164.00	0.50	16.00	126.13	6.03	271.92	118.86	0.03	0.01
44	5.02	20	SLE Q	2	3	3.60	-1555.17	27.00	164.00	0.50	16.00	126.13	6.03	271.92	1186.49	0.35	0.07
45	5.02	19	SLE F	2	3	3.60	-1592.05	27.00	164.00	0.50	16.00	126.13	6.03	271.92	1214.62	0.35	0.08

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 SND	0.04	0.32	0.28	ø8/15 2 br.	6.70	0.40	1286.31	2.50	14456.80	28609.20	14456.80	11.239
17 SLU	0.32	4.74	4.42	ø8/15 2 br.	6.70	0.40	2547.87	2.50	14456.80	28609.20	14456.80	5.674
17 SLU	4.74	5.02	0.28	ø8/15 2 br.	6.70	0.40	3050.47	2.50	14456.80	28609.20	14456.80	4.739

Travata n. 204

Nodi: 2027 -544 -18921 -545 -18872 -18871 -18870 -546 2028

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	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	2	15.50	6.03	6.03	6.03	6.03	-127.68	-5492.82	43.020
3.27	17	SLU	8	25.00	6.03	6.03	6.03	6.03	-412.43	-5492.82	13.318

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	1	SND	2	15.50	6.03	6.03	6.03	6.03	4224.02	5191.67	1.229
3.27	1	SND	8	25.00	6.03	6.03	6.03	6.03	-4550.79	-5191.67	1.141

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>
0.25	18	SLE R	2	15.50	6.03	6.03	-99.49	75.29	-15.46	2.04
0.25	20	SLE Q	2	15.50	6.03	6.03	-89.21	67.51	-13.87	1.83
3.27	18	SLE R	8	25.00	6.03	6.03	-310.88	235.27	-48.32	6.37
3.27	20	SLE Q	8	25.00	6.03	6.03	-319.07	241.47	-49.60	6.54

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>
19	0.25	20	SLE Q	2	4	15.50	-89.21	27.00	212.00	0.50	16.00	156.91	6.03	348.70	67.51	0.02	0.01
20	0.25	19	SLE F	2	4	15.50	-90.94	27.00	212.00	0.50	16.00	156.91	6.03	348.70	68.82	0.02	0.01
39	3.27	20	SLE Q	8	4	25.00	-319.07	27.00	212.00	0.50	16.00	156.91	6.03	348.70	241.47	0.07	0.02
40	3.27	19	SLE F	8	4	25.00	-317.95	27.00	212.00	0.50	16.00	156.91	6.03	348.70	240.62	0.07	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.
9 SND	0.25	0.53	0.28	ø10/15 2 br.	10.47	0.50	3154.66	2.50	22588.70	35761.60	22588.70	7.160
1 SND	0.53	2.99	2.46	ø10/15 2 br.	10.47	0.50	3208.89	2.50	22588.70	35761.60	22588.70	7.039
1 SND	2.99	3.27	0.28	ø10/15 2 br.	10.47	0.50	3306.89	2.50	22588.70	35761.60	22588.70	6.831

Travata n. 205

Nodi: 2029 -32787 -32786 -27240 -32785 -32784 -32675 -33530 -33529 2032 -33528 -33527 2033 -35198 -34922 -26888 2035 -12157 -12156 -12155 -12154 -12153 2036 2037 2038

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	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	112.14	13.57	18.10	13.57	18.10	2839.72	15268.10	5.377
1.37	17	SLU	1	0.00	13.57	18.10	13.57	18.10	-2895.45	-11598.90	4.006
2.55	17	SLU	7	236.43	13.57	18.10	13.57	18.10	-1293.73	-11598.90	8.966
4.91	17	SLU	7	0.00	13.57	18.10	13.57	18.10	235.11	15268.10	64.941
6.01	17	SLU	13	249.27	13.57	18.10	13.57	18.10	288.57	15268.10	52.910
8.50	17	SLU	13	0.00	23.00	31.67	23.00	31.67	-1265.19	-19337.60	15.284
10.85	17	SLU	24	327.00	9.42	13.57	9.42	13.57	-249.90	-8191.15	32.778

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	M' ydy <daNm>	Sic.
0.25	1	SND	1	112.14	13.57	18.10	13.57	18.10	11817.40	14732.70	1.247
1.37	1	SND	1	0.00	13.57	18.10	13.57	18.10	-10667.10	-11268.80	1.056
2.55	9	SND	7	236.43	13.57	18.10	13.57	18.10	-7807.60	-11268.80	1.443
4.91	1	SND	7	0.00	13.57	18.10	13.57	18.10	-7369.85	-11268.80	1.529
6.01	9	SND	13	249.27	13.57	18.10	13.57	18.10	-8159.51	-11268.80	1.381
8.50	1	SND	13	0.00	23.00	31.67	23.00	31.67	-8539.48	-18901.80	2.213
10.85	9	SND	24	327.00	9.42	13.57	9.42	13.57	-5801.93	-7914.81	1.364

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>
0.25	18	SLE R	1	112.14	13.57	18.10	2057.33	-282.34	542.39	27.99
0.25	20	SLE Q	1	112.14	13.57	18.10	1852.81	-254.27	488.47	25.20
1.37	18	SLE R	1	0.00	13.57	18.10	-2090.92	724.96	-260.48	28.31
1.37	20	SLE Q	1	0.00	13.57	18.10	-1898.65	658.29	-236.52	25.71
2.55	18	SLE R	7	236.43	13.57	18.10	-914.10	316.94	-113.88	12.38
2.55	20	SLE Q	7	236.43	13.57	18.10	-838.25	290.64	-104.42	11.35
4.91	18	SLE R	7	0.00	13.57	18.10	181.09	-24.85	47.74	2.46
4.91	20	SLE Q	7	0.00	13.57	18.10	-163.73	56.77	-20.40	2.22
6.01	18	SLE R	13	249.27	13.57	18.10	203.00	-27.86	53.52	2.76
6.01	20	SLE Q	13	249.27	13.57	18.10	-203.31	70.49	-25.33	2.75
8.50	18	SLE R	13	0.00	23.00	31.67	-872.73	180.08	-79.46	8.18
8.50	20	SLE Q	13	0.00	23.00	31.67	-792.31	163.48	-72.14	7.43
10.85	18	SLE R	24	327.00	9.42	13.57	-191.40	94.69	-27.33	3.18
10.85	20	SLE Q	24	327.00	9.42	13.57	-162.16	80.23	-23.16	2.69

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>
19	0.25	20	SLE Q	1	3	112.14	1852.81	23.00	105.33	0.50	24.00	76.61	18.10	230.81	488.47	0.14	0.02
20	0.25	19	SLE F	1	3	112.14	1903.41	23.00	105.33	0.50	24.00	76.61	18.10	230.81	501.81	0.15	0.02
39	1.37	20	SLE Q	1	3	0.00	-1898.65	23.00	158.00	0.50	24.00	90.68	13.57	252.66	658.29	0.19	0.03
40	1.37	19	SLE F	1	3	0.00	-1946.29	23.00	158.00	0.50	24.00	90.68	13.57	252.66	674.81	0.20	0.03
59	2.55	20	SLE Q	7	3	236.43	-838.25	23.00	158.00	0.50	24.00	90.68	13.57	252.66	290.64	0.08	0.01
60	2.55	19	SLE F	7	3	236.43	-857.40	23.00	158.00	0.50	24.00	90.68	13.57	252.66	297.28	0.09	0.01
82	4.91	20	SLE Q	7	3	0.00	-163.73	23.00	158.00	0.50	24.00	90.68	13.57	252.66	56.77	0.02	0.00
84	4.91	19	SLE F	7	3	0.00	-146.60	23.00	158.00	0.50	24.00	90.68	13.57	252.66	50.83	0.01	0.00
105	6.01	20	SLE Q	13	3	249.27	-203.31	23.00	158.00	0.50	24.00	90.68	13.57	252.66	70.49	0.02	0.00
107	6.01	19	SLE F	13	3	249.27	-176.81	23.00	158.00	0.50	24.00	90.68	13.57	252.66	61.30	0.02	0.00
127	8.50	20	SLE Q	13	3	0.00	-792.31	24.00	63.20	0.50	22.18	71.24	23.00	240.94	163.48	0.05	0.01
128	8.50	19	SLE F	13	3	0.00	-814.55	24.00	63.20	0.50	22.18	71.24	23.00	240.94	168.07	0.05	0.01
147	10.85	20	SLE Q	24	3	327.00	-162.16	25.00	160.00	0.50	20.00	106.01	9.42	263.94	80.23	0.02	0.00
148	10.85	19	SLE F	24	3	327.00	-167.95	25.00	160.00	0.50	20.00	106.01	9.42	263.94	83.09	0.02	0.00

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 SND	0.25	0.53	0.28	ø10/15 2 br.	10.47	0.40	18745.50	2.50	22588.70	28609.20	22588.70	1.205
1 SND	0.53	1.09	0.56	ø10/15 2 br.	10.47	0.40	19438.30	2.50	22588.70	28609.20	22588.70	1.162
1 SND	1.09	1.37	0.28	ø10/15 2 br.	10.47	0.40	19783.80	2.50	22588.70	28609.20	22588.70	1.142
9 SND	2.55	2.83	0.28	ø10/15 2 br.	10.47	0.40	7739.72	2.50	22588.70	28609.20	22588.70	2.919
9 SND	2.83	4.63	1.80	ø10/15 2 br.	10.47	0.40	7394.20	2.50	22588.70	28609.20	22588.70	3.055
1 SND	4.63	4.91	0.28	ø10/15 2 br.	10.47	0.40	7169.13	2.50	22588.70	28609.20	22588.70	3.151
9 SND	6.01	6.29	0.28	ø10/15 2 br.	10.47	0.40	7601.37	2.50	22588.70	28609.20	22588.70	2.972
1 SND	6.29	8.22	1.93	ø10/15 2 br.	10.47	0.40	7728.42	2.50	22588.70	28609.20	22588.70	2.923
1 SND	8.22	8.50	0.28	ø10/15 2 br.	10.47	0.40	8073.95	2.50	22588.70	28609.20	22588.70	2.798
9 SND	10.85	11.13	0.28	ø10/15 2 br.	10.47	0.40	3851.75	2.50	22588.70	28609.20	22588.70	5.865
1 SND	11.13	14.08	2.95	ø10/15 2 br.	10.47	0.40	3918.78	2.50	22588.70	28609.20	22588.70	5.764

Travata n. 206

Nodi: 2039 2040 -32062 -32061 -32060 -32059 -32058 -32057 2041 2007 -548 -37682

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
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Relazione di calcolo

		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
2.00	17	SLU	9	381.00	9.42	9.42	9.42	9.42	-2074.50	-8192.95	3.949
5.31	17	SLU	9	50.00	9.42	9.42	9.42	9.42	-902.01	-8192.95	9.083
5.81	17	SLU	10	368.00	9.42	9.42	9.42	9.42	-3898.49	-8192.95	2.102
8.21	17	SLU	10	127.93	9.42	9.42	9.42	9.42	2203.61	8192.95	3.718
10.61	17	SLU	11	25.00	9.42	9.42	9.42	9.42	-2488.24	-8192.95	3.293

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
2.00	9	SND	9	381.00	9.42	9.42	9.42	9.42	-6628.50	-7893.54	1.191
5.31	1	SND	9	50.00	9.42	9.42	9.42	9.42	-5951.59	-7893.54	1.326
5.81	9	SND	10	368.00	9.42	9.42	9.42	9.42	-5360.42	-7893.54	1.473
8.21	1	SND	10	127.93	9.42	9.42	9.42	9.42	1822.62	7893.54	4.331
10.61	1	SND	11	25.00	9.42	9.42	9.42	9.42	-4072.96	-7893.54	1.938

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>
2.00	18	SLE R	9	381.00	9.42	9.42	-1437.51	712.42	-233.02	26.04
2.00	20	SLE Q	9	381.00	9.42	9.42	-1383.53	685.67	-224.27	25.06
5.31	18	SLE R	9	50.00	9.42	9.42	-608.75	301.70	-98.68	11.03
5.31	20	SLE Q	9	50.00	9.42	9.42	-666.93	330.53	-108.11	12.08
5.81	18	SLE R	10	368.00	9.42	9.42	-2689.19	1332.76	-435.92	48.71
5.81	20	SLE Q	10	368.00	9.42	9.42	-2725.15	1350.58	-441.75	49.36
8.21	18	SLE R	10	127.93	9.42	9.42	1514.72	-245.54	750.69	27.44
8.21	20	SLE Q	10	127.93	9.42	9.42	1514.67	-245.53	750.67	27.44
10.61	18	SLE R	11	25.00	9.42	9.42	-1702.94	843.97	-276.05	30.85
10.61	20	SLE Q	11	25.00	9.42	9.42	-1671.88	828.58	-271.01	30.29

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>
19	2.00	20	SLE Q	9	3	381.00	-1383.53	25.00	162.00	0.50	20.00	104.68	9.42	257.66	685.67	0.20	0.04
20	2.00	19	SLE F	9	3	381.00	-1399.41	25.00	162.00	0.50	20.00	104.68	9.42	257.66	693.54	0.20	0.04
39	5.31	20	SLE Q	9	3	50.00	-666.93	25.00	162.00	0.50	20.00	104.68	9.42	257.66	330.53	0.10	0.02
40	5.31	19	SLE F	9	3	50.00	-649.98	25.00	162.00	0.50	20.00	104.68	9.42	257.66	322.13	0.09	0.02
63	5.81	20	SLE Q	10	3	368.00	-2725.15	25.00	162.00	0.50	20.00	104.68	9.42	257.66	1350.58	0.45	0.08
64	5.81	19	SLE F	10	3	368.00	-2715.64	25.00	162.00	0.50	20.00	104.68	9.42	257.66	1345.86	0.39	0.07
83	8.21	20	SLE Q	10	3	127.93	1514.67	25.00	162.00	0.50	20.00	104.68	9.42	257.66	750.67	0.22	0.04
84	8.21	19	SLE F	10	3	127.93	1514.76	25.00	162.00	0.50	20.00	104.68	9.42	257.66	750.71	0.22	0.04
107	10.61	20	SLE Q	11	3	25.00	-1671.88	25.00	162.00	0.50	20.00	104.68	9.42	257.66	828.58	0.24	0.04
108	10.61	19	SLE F	11	3	25.00	-1679.95	25.00	162.00	0.50	20.00	104.68	9.42	257.66	832.58	0.24	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.
9 SND	2.00	2.28	0.28	ø8/15 2 br.	6.70	0.40	5439.91	2.50	14456.80	28609.20	14456.80	2.658
9 SND	2.28	5.03	2.75	ø8/15 2 br.	6.70	0.40	5094.39	2.50	14456.80	28609.20	14456.80	2.838
1 SND	5.03	5.31	0.28	ø8/15 2 br.	6.70	0.40	5006.92	2.50	14456.80	28609.20	14456.80	2.887
17 SLU	5.81	6.09	0.28	ø8/15 2 br.	6.70	0.40	4602.97	2.50	14456.80	28609.20	14456.80	3.141
17 SLU	6.09	10.33	4.24	ø8/15 2 br.	6.70	0.40	4100.37	2.50	14456.80	28609.20	14456.80	3.526
17 SLU	10.33	10.61	0.28	ø8/15 2 br.	6.70	0.40	4015.54	2.50	14456.80	28609.20	14456.80	3.600

Travata n. 207

Nodi: 2042 2043 2044

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

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	17	SLU	1	175.00	13.57	13.57	13.57	13.57	45.94	11595.00	>100
3.27	17	SLU	2	25.00	13.57	13.57	13.57	13.57	-437.15	-11595.00	26.524

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
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Relazione di calcolo

0.20	5	SND	1	175.00	13.57	13.57	13.57	13.57	2120.25	11221.40	5.292
3.27	5	SND	2	25.00	13.57	13.57	13.57	13.57	8026.19	11221.40	1.398

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	18	SLE R	1	175.00	13.57	13.57	-35.24	12.25	-4.94	0.52
0.20	20	SLE Q	1	175.00	13.57	13.57	-41.15	14.31	-5.77	0.61
3.27	18	SLE R	2	25.00	13.57	13.57	-331.62	115.30	-46.49	4.90
3.27	20	SLE Q	2	25.00	13.57	13.57	-353.36	122.86	-49.54	5.22

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>
21	0.20	20	SLE Q	1	3	175.00	-41.15	23.00	160.00	0.50	24.00	89.54	13.57	246.21	14.31	0.00	0.00
23	0.20	19	SLE F	1	3	175.00	-39.54	23.00	160.00	0.50	24.00	89.54	13.57	246.21	13.75	0.00	0.00
43	3.27	20	SLE Q	2	3	25.00	-353.36	23.00	160.00	0.50	24.00	89.54	13.57	246.21	122.86	0.04	0.01
44	3.27	19	SLE F	2	3	25.00	-348.69	23.00	160.00	0.50	24.00	89.54	13.57	246.21	121.24	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.
13 SND	0.20	0.48	0.28	ø8/15 2 br.	6.70	0.40	3503.16	2.50	14456.80	28609.20	14456.80	4.127
13 SND	0.48	2.99	2.51	ø8/15 2 br.	6.70	0.40	10568.90	2.50	14456.80	28609.20	14456.80	1.368
13 SND	2.99	3.27	0.28	ø8/15 2 br.	6.70	0.40	10647.30	2.50	14456.80	28609.20	14456.80	1.358

Travata n. 208

Nodi: -37670 2009 -549 -37681

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	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
5.06	17	SLU	1	50.00	6.03	6.03	6.03	6.03	-660.65	-5395.92	8.168
5.56	17	SLU	2	368.00	6.03	6.03	6.03	6.03	-1091.64	-5395.92	4.943
9.84	17	SLU	3	76.65	6.03	6.03	6.03	6.03	-436.45	-5395.92	12.363
10.36	17	SLU	3	25.00	6.03	6.03	6.03	6.03	-928.12	-5395.92	5.814

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
5.06	1	SND	1	50.00	6.03	6.03	6.03	6.03	-2942.79	-5143.73	1.748
5.56	9	SND	2	368.00	6.03	6.03	6.03	6.03	-3448.18	-5143.73	1.492
9.84	1	SND	3	76.65	6.03	6.03	6.03	6.03	-2387.60	-5143.73	2.154
10.36	1	SND	3	25.00	6.03	6.03	6.03	6.03	-2977.66	-5143.73	1.727

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>
5.06	18	SLE R	1	50.00	6.03	6.03	-518.18	395.33	-96.08	11.87
5.06	20	SLE Q	1	50.00	6.03	6.03	-532.00	405.88	-98.65	12.18
5.56	18	SLE R	2	368.00	6.03	6.03	-817.14	623.42	-151.52	18.71
5.56	20	SLE Q	2	368.00	6.03	6.03	-858.01	654.61	-159.10	19.65
9.84	18	SLE R	3	76.65	6.03	6.03	-322.49	246.03	-59.80	7.38
9.84	20	SLE Q	3	76.65	6.03	6.03	-288.87	220.38	-53.56	6.61
10.36	18	SLE R	3	25.00	6.03	6.03	-668.80	510.25	-124.01	15.31
10.36	20	SLE Q	3	25.00	6.03	6.03	-631.24	481.59	-117.05	14.45

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>
19	5.06	20	SLE Q	1	3	50.00	-532.00	27.00	164.00	0.50	16.00	126.13	6.03	271.92	405.88	0.12	0.03
20	5.06	19	SLE F	1	3	50.00	-527.98	27.00	164.00	0.50	16.00	126.13	6.03	271.92	402.81	0.12	0.03
39	5.56	20	SLE Q	2	3	368.00	-858.01	27.00	164.00	0.50	16.00	126.13	6.03	271.92	654.61	0.19	0.04
40	5.56	19	SLE F	2	3	368.00	-847.10	27.00	164.00	0.50	16.00	126.13	6.03	271.92	646.28	0.19	0.04
62	9.84	20	SLE Q	3	3	76.65	-288.87	27.00	164.00	0.50	16.00	126.13	6.03	271.92	220.38	0.06	0.01
64	9.84	19	SLE F	3	3	76.65	-297.72	27.00	164.00	0.50	16.00	126.13	6.03	271.92	227.14	0.07	0.01
83	10.36	20	SLE Q	3	3	25.00	-631.24	27.00	164.00	0.50	16.00	126.13	6.03	271.92	481.59	0.14	0.03
84	10.36	19	SLE F	3	3	25.00	-641.14	27.00	164.00	0.50	16.00	126.13	6.03	271.92	489.15	0.14	0.03

Stato limite ultimo - Verifiche a taglio

Relazione di calcolo

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 SND	0.04	4.78	4.74	ø8/15 2 br.	6.70	0.40	1575.24	2.50	14456.80	28609.20	14456.80	9.177
1 SND	4.78	5.06	0.28	ø8/15 2 br.	6.70	0.40	1604.51	2.50	14456.80	28609.20	14456.80	9.010
9 SND	5.56	5.84	0.28	ø8/15 2 br.	6.70	0.40	1872.51	2.50	14456.80	28609.20	14456.80	7.721
1 SND	5.84	10.08	4.24	ø8/15 2 br.	6.70	0.40	2252.48	2.50	14456.80	28609.20	14456.80	6.418
1 SND	10.08	10.36	0.28	ø8/15 2 br.	6.70	0.40	2598.00	2.50	14456.80	28609.20	14456.80	5.565

Travata n. 209

Nodi: 2067 2010 2068 -36132 -36131 -36130 -36129 -36128 -36127 -551 -36126 2070 -36125 -36124 -36123 -36122 -36121 -36120 -36119 2072

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
5.76	17	SLU	1	25.00	6.03	6.03	6.03	6.03	-1244.62	-5395.92	4.335
6.26	17	SLU	2	434.00	6.03	6.03	6.03	6.03	-226.11	-5395.92	23.864
10.60	17	SLU	2	0.00	12.06	12.06	12.06	12.06	-747.76	-10357.90	13.852

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
5.76	9	SND	1	25.00	6.03	6.03	6.03	6.03	-3102.45	-5143.73	1.658
6.26	1	SND	2	434.00	6.03	6.03	6.03	6.03	-4145.35	-5143.73	1.241
10.60	9	SND	2	0.00	12.06	12.06	12.06	12.06	-4384.35	-10012.90	2.284

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/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
5.76	18	SLE R	1	25.00	6.03	6.03	-940.97	717.89	-174.48	21.55
5.76	20	SLE Q	1	25.00	6.03	6.03	-946.92	722.44	-175.59	21.68
6.26	18	SLE R	2	434.00	6.03	6.03	-202.22	154.28	-37.50	4.63
6.26	20	SLE Q	2	434.00	6.03	6.03	-244.73	186.71	-45.38	5.60
10.60	18	SLE R	2	0.00	12.06	12.06	-559.21	218.07	-82.43	8.83
10.60	20	SLE Q	2	0.00	12.06	12.06	-519.86	202.72	-76.63	8.21

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 off} <cmq>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
20	5.76	20	SLE Q	1	3	25.00	-946.92	27.00	164.00	0.50	16.00	126.13	6.03	271.92	722.44	0.21	0.05
21	5.76	19	SLE F	1	3	25.00	-945.53	27.00	164.00	0.50	16.00	126.13	6.03	271.92	721.37	0.21	0.05
40	6.26	20	SLE Q	2	3	434.00	-244.73	27.00	164.00	0.50	16.00	126.13	6.03	271.92	186.71	0.05	0.01
41	6.26	19	SLE F	2	3	434.00	-233.14	27.00	164.00	0.50	16.00	126.13	6.03	271.92	177.87	0.05	0.01
60	10.60	20	SLE Q	2	3	0.00	-519.86	27.00	65.60	0.50	16.00	87.14	12.06	249.86	202.72	0.06	0.01
61	10.60	19	SLE F	2	3	0.00	-530.58	27.00	65.60	0.50	16.00	87.14	12.06	249.86	206.90	0.06	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.
9 SND	0.04	5.48	5.44	ø8/15 2 br.	6.70	0.40	1534.24	2.50	14456.80	28609.20	14456.80	9.423
9 SND	5.48	5.76	0.28	ø8/15 2 br.	6.70	0.40	1612.64	2.50	14456.80	28609.20	14456.80	8.965
1 SND	6.26	6.54	0.28	ø8/15 2 br.	6.70	0.40	2333.37	2.50	14456.80	28609.20	14456.80	6.196
9 SND	6.54	10.32	3.78	ø8/15 2 br.	6.70	0.40	2381.76	2.50	14456.80	28609.20	14456.80	6.070
9 SND	10.32	10.60	0.28	ø8/15 2 br.	6.70	0.40	2460.16	2.50	14456.80	28609.20	14456.80	5.876

Travata n. 210

Nodi: -553 -566 -555

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
5R		28.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

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	17	SLU	1	309.00	6.03	6.03	6.03	6.03	-2559.74	-5269.62	2.059
2.15	17	SLU	1	94.05	6.03	6.03	6.03	6.03	2605.85	5269.62	2.022
4.59	17	SLU	2	0.00	6.03	6.03	6.03	6.03	-2251.00	-5269.62	2.341

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
0.00	1	SND	1	309.00	6.03	6.03	6.03	6.03	-3448.26	-5069.32	1.470
2.15	9	SND	1	94.05	6.03	6.03	6.03	6.03	2021.65	5069.32	2.508
4.59	13	SND	2	0.00	6.03	6.03	6.03	6.03	-2990.49	-5069.32	1.695

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	18	SLE R	1	309.00	6.03	6.03	-1745.87	1348.16	-417.02	47.41
0.00	20	SLE Q	1	309.00	6.03	6.03	-1762.57	1361.05	-421.00	47.87
2.15	18	SLE R	1	94.05	6.03	6.03	1776.83	-424.41	1372.07	48.26
2.15	20	SLE Q	1	94.05	6.03	6.03	1769.94	-422.77	1366.75	48.07
4.59	18	SLE R	2	0.00	6.03	6.03	-1527.23	1179.33	-364.79	41.48
4.59	20	SLE Q	2	0.00	6.03	6.03	-1524.14	1176.94	-364.06	41.39

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>
23	0.00	20	SLE Q	1	5	309.00	-1762.57	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1361.05	0.44	0.08
24	0.00	19	SLE F	1	5	309.00	-1757.77	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1357.35	0.40	0.07
43	2.15	20	SLE Q	1	5	94.05	1769.94	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1366.75	0.44	0.08
44	2.15	19	SLE F	1	5	94.05	1771.71	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1368.11	0.40	0.07
67	4.59	20	SLE Q	2	5	0.00	-1524.14	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1176.94	0.35	0.06
68	4.59	19	SLE F	2	5	0.00	-1525.38	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1177.90	0.34	0.06

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	b <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
17 SLU	0.04	0.32	0.28	ø8/15 2 br.	6.70	0.28	4015.78	2.50	14456.80	20026.50	14456.80	3.600
17 SLU	0.32	4.27	3.96	ø8/15 2 br.	6.70	0.28	3543.75	2.50	14456.80	20026.50	14456.80	4.080
17 SLU	4.27	4.55	0.28	ø8/15 2 br.	6.70	0.28	3008.23	2.50	14456.80	20026.50	14456.80	4.806

Travata n. 211

Nodi: 2077 2078 -25068 -25067 -24941 -25042 2080 -567 2081 -25324 -25323 -10394 -29028 -562 -32980 -32979 -29032 -29111 -24937 -25648 -25647 2085 -564 2086 -26007 -565 -25982 2087 -25957 2088 -37680

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	466.00	9.42	6.03	9.42	6.03	-2295.98	-8189.89	3.567
1.18	17	SLU	1	372.80	9.42	6.03	9.42	6.03	1268.87	5394.78	4.252
4.91	17	SLU	1	0.00	9.42	6.03	9.42	6.03	-3424.05	-8189.89	2.392
6.01	17	SLU	7	309.00	9.42	6.03	9.42	6.03	-2287.71	-8189.89	3.580
9.70	17	SLU	8	90.00	9.42	6.03	9.42	6.03	2572.18	5394.78	2.097
11.16	17	SLU	9	0.00	18.85	12.06	18.85	12.06	-5634.04	-15849.00	2.813
13.56	17	SLU	21	56.00	9.42	6.03	9.42	6.03	-6509.99	-8189.89	1.258
14.72	17	SLU	22	90.00	9.42	6.03	9.42	6.03	2535.56	5394.78	2.128
18.96	17	SLU	23	0.00	18.85	12.06	18.85	12.06	-2947.89	-15849.00	5.376
20.06	17	SLU	30	467.14	18.85	12.06	18.85	12.06	-2989.46	-15849.00	5.302
23.53	17	SLU	30	119.75	9.42	6.03	9.42	6.03	1230.32	5394.78	4.385
24.48	17	SLU	30	25.00	9.42	6.03	9.42	6.03	-2164.07	-8189.89	3.784

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	1	SND	1	466.00	9.42	6.03	9.42	6.03	-4891.89	-7863.31	1.607
1.18	9	SND	1	372.80	9.42	6.03	9.42	6.03	2584.27	5145.34	1.991
4.91	9	SND	1	0.00	9.42	6.03	9.42	6.03	-5828.35	-7863.31	1.349
6.01	1	SND	7	309.00	9.42	6.03	9.42	6.03	-5133.63	-7863.31	1.532
9.70	1	SND	8	90.00	9.42	6.03	9.42	6.03	3190.59	5145.34	1.613
11.16	9	SND	9	0.00	18.85	12.06	18.85	12.06	-7030.24	-15257.10	2.170
13.56	5	SND	21	56.00	9.42	6.03	9.42	6.03	-7665.51	-7863.31	1.026
14.72	9	SND	22	90.00	9.42	6.03	9.42	6.03	3404.71	5145.34	1.511
18.96	9	SND	23	0.00	18.85	12.06	18.85	12.06	-5384.46	-15257.10	2.834
20.06	1	SND	30	467.14	18.85	12.06	18.85	12.06	-5714.68	-15257.10	2.670
23.53	1	SND	30	119.75	9.42	6.03	9.42	6.03	2508.89	5145.34	2.051
24.48	9	SND	30	25.00	9.42	6.03	9.42	6.03	-4816.97	-7863.31	1.632

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	Afe S	Afe I	My	σ_f sup	σ_f inf	σ_c
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<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
0.25	18	SLE R	1	466.00	9.42	6.03	-1574.48	782.42	-286.17	30.95
0.25	20	SLE Q	1	466.00	9.42	6.03	-1591.94	791.10	-289.35	31.29
1.18	18	SLE R	1	372.80	9.42	6.03	874.26	-143.15	667.04	18.55
1.18	20	SLE Q	1	372.80	9.42	6.03	865.90	-141.78	660.66	18.37
4.91	18	SLE R	1	0.00	9.42	6.03	-2358.29	1171.93	-428.64	46.36
4.91	20	SLE Q	1	0.00	9.42	6.03	-2337.70	1161.70	-424.90	45.96
6.01	18	SLE R	7	309.00	9.42	6.03	-1621.13	805.60	-294.65	31.87
6.01	20	SLE Q	7	309.00	9.42	6.03	-1595.06	792.65	-289.92	31.36
9.70	18	SLE R	8	90.00	9.42	6.03	1777.69	-291.07	1356.34	37.71
9.70	20	SLE Q	8	90.00	9.42	6.03	1723.40	-282.18	1314.92	36.56
11.16	18	SLE R	9	0.00	18.85	12.06	-3914.38	994.38	-557.50	54.41
11.16	20	SLE Q	9	0.00	18.85	12.06	-3676.42	933.93	-523.61	51.10
13.56	18	SLE R	21	56.00	9.42	6.03	-4522.34	2247.33	-821.97	88.90
13.56	20	SLE Q	21	56.00	9.42	6.03	-4249.80	2111.89	-772.44	83.54
14.72	18	SLE R	22	90.00	9.42	6.03	1755.21	-287.39	1339.19	37.23
14.72	20	SLE Q	22	90.00	9.42	6.03	1666.40	-272.85	1271.42	35.35
18.96	18	SLE R	23	0.00	18.85	12.06	-2084.66	529.57	-296.91	28.98
18.96	20	SLE Q	23	0.00	18.85	12.06	-2018.70	512.82	-287.51	28.06
20.06	18	SLE R	30	467.14	18.85	12.06	-2065.91	524.81	-294.24	28.72
20.06	20	SLE Q	30	467.14	18.85	12.06	-2067.04	525.10	-294.40	28.73
23.53	18	SLE R	30	119.75	9.42	6.03	848.95	-139.00	647.73	18.01
23.53	20	SLE Q	30	119.75	9.42	6.03	851.22	-139.38	649.46	18.06
24.48	18	SLE R	30	25.00	9.42	6.03	-1479.66	735.30	-268.94	29.09
24.48	20	SLE Q	30	25.00	9.42	6.03	-1476.36	733.66	-268.34	29.02

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
<m>	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
21	0.25	20	SLE Q	1	3	466.00	-1591.94	25.00	162.00	0.50	20.00	103.41	9.42	251.68	791.10	0.23	0.04
22	0.25	19	SLE F	1	3	466.00	-1587.33	25.00	162.00	0.50	20.00	103.41	9.42	251.68	788.81	0.23	0.04
46	1.18	20	SLE Q	1	3	372.80	865.90	27.00	164.00	0.50	16.00	127.53	6.03	277.19	660.66	0.19	0.04
48	1.18	19	SLE F	1	3	372.80	868.10	27.00	164.00	0.50	16.00	127.53	6.03	277.19	662.34	0.19	0.04
69	4.91	20	SLE Q	1	3	0.00	-2337.70	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1161.70	0.37	0.06
70	4.91	19	SLE F	1	3	0.00	-2343.16	25.00	162.00	0.50	20.00	103.41	9.42	251.68	1164.41	0.34	0.06
90	6.01	20	SLE Q	7	3	309.00	-1595.06	25.00	162.00	0.50	20.00	103.41	9.42	251.68	792.65	0.23	0.04
91	6.01	19	SLE F	7	3	309.00	-1601.61	25.00	162.00	0.50	20.00	103.41	9.42	251.68	795.90	0.23	0.04
116	9.70	20	SLE Q	8	3	90.00	1723.40	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1314.92	0.38	0.08
117	9.70	19	SLE F	8	3	90.00	1737.36	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1325.57	0.39	0.08
141	11.16	20	SLE Q	9	3	0.00	-3676.42	25.00	64.80	0.50	20.00	73.99	18.85	226.08	933.93	0.34	0.04
142	11.16	19	SLE F	9	3	0.00	-3737.76	25.00	64.80	0.50	20.00	73.99	18.85	226.08	949.52	0.30	0.04
165	13.56	20	SLE Q	21	3	56.00	-4249.80	25.00	162.00	0.50	20.00	103.41	9.42	251.68	2111.89	0.83	0.15
166	13.56	19	SLE F	21	3	56.00	-4320.13	25.00	162.00	0.50	20.00	103.41	9.42	251.68	2146.85	0.75	0.13
191	14.72	20	SLE Q	22	3	90.00	1666.40	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1271.42	0.37	0.08
192	14.72	19	SLE F	22	3	90.00	1689.31	27.00	164.00	0.50	16.00	127.53	6.03	277.19	1288.91	0.38	0.08
213	18.96	20	SLE Q	23	3	0.00	-2018.70	25.00	64.80	0.50	20.00	73.99	18.85	226.08	512.82	0.15	0.02
214	18.96	19	SLE F	23	3	0.00	-2035.69	25.00	64.80	0.50	20.00	73.99	18.85	226.08	517.13	0.15	0.02
233	20.06	20	SLE Q	30	3	467.14	-2067.04	25.00	64.80	0.50	20.00	73.99	18.85	226.08	525.10	0.15	0.02
234	20.06	19	SLE F	30	3	467.14	-2066.76	25.00	64.80	0.50	20.00	73.99	18.85	226.08	525.03	0.15	0.02
257	23.53	20	SLE Q	30	3	119.75	851.22	27.00	164.00	0.50	16.00	127.53	6.03	277.19	649.46	0.19	0.04
259	23.53	19	SLE F	30	3	119.75	850.65	27.00	164.00	0.50	16.00	127.53	6.03	277.19	649.03	0.19	0.04
281	24.48	20	SLE Q	30	3	25.00	-1476.36	25.00	162.00	0.50	20.00	103.41	9.42	251.68	733.66	0.21	0.04
282	24.48	19	SLE F	30	3	25.00	-1477.19	25.00	162.00	0.50	20.00	103.41	9.42	251.68	734.08	0.21	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
<m>	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
1 SND	0.25	0.53	0.28	ø8/15 2 br.	6.70	0.40	4172.36	2.50	14456.80	28609.20	14456.80	3.465
9 SND	0.53	4.63	4.10	ø8/15 2 br.	6.70	0.40	4146.90	2.50	14456.80	28609.20	14456.80	3.486
9 SND	4.63	4.91	0.28	ø8/15 2 br.	6.70	0.40	4492.43	2.50	14456.80	28609.20	14456.80	3.218
1 SND	6.01	6.29	0.28	ø8/15 2 br.	6.70	0.40	2893.66	2.50	14456.80	28609.20	14456.80	4.996
17 SLU	6.29	10.88	4.59	ø8/15 2 br.	6.70	0.40	9998.80	2.50	14456.80	28609.20	14456.80	1.446
17 SLU	10.88	11.16	0.28	ø8/15 2 br.	6.70	0.40	11112.00	2.50	14456.80	28609.20	14456.80	1.301
17 SLU	13.56	13.84	0.28	ø8/15 2 br.	6.70	0.40	12220.60	2.50	14456.80	28609.20	14456.80	1.183
17 SLU	13.84	18.68	4.84	ø8/15 2 br.	6.70	0.40	11107.40	2.50	14456.80	28609.20	14456.80	1.302
9 SND	18.68	18.96	0.28	ø8/15 2 br.	6.70	0.40	2894.65	2.50	14456.80	28609.20	14456.80	4.994
1 SND	20.06	20.34	0.28	ø8/15 2 br.	6.70	0.40	4442.13	2.50	14456.80	28609.20	14456.80	3.254
1 SND	20.34	24.20	3.86	ø8/15 2 br.	6.70	0.40	4096.61	2.50	14456.80	28609.20	14456.80	3.529
9 SND	24.20	24.48	0.28	ø8/15 2 br.	6.70	0.40	4174.94	2.50	14456.80	28609.20	14456.80	3.463

Travata n. 212

Nodi: 2001 2019 -21583 -21582 -21581 -21488 -32588 -32587 -35042 -33141 -33275 -33274 2029 -33273 -33272 -33271 -33139 -35078 -34425 2048 -21795 -21794 -21793 -21792 2062 2067 2075 -22015 -22014 -22013 2077

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.25	17	SLU	1	25.00	27.14	22.62	27.14	22.62	725.03	19138.00	26.396
1.50	17	SLU	1	150.00	27.14	22.62	27.14	22.62	-1118.98	-22795.40	20.372
3.00	17	SLU	8	0.00	27.14	22.62	27.14	22.62	-922.05	-22795.40	24.723
5.03	17	SLU	8	203.00	27.14	22.62	27.14	22.62	-1919.83	-22795.40	11.874
7.02	17	SLU	18	0.00	27.14	36.19	27.14	36.19	-1007.12	-22855.10	22.694
8.71	17	SLU	18	169.25	45.24	36.19	45.24	36.19	-988.99	-37532.20	37.950
10.01	17	SLU	25	0.00	45.24	36.19	45.24	36.19	-3955.42	-37532.20	9.489
13.06	17	SLU	26	255.00	18.10	13.57	18.10	13.57	-3638.71	-15401.10	4.233

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
0.25	9	SND	1	25.00	27.14	22.62	27.14	22.62	15450.00	18619.40	1.205
1.50	1	SND	1	150.00	27.14	22.62	27.14	22.62	15766.20	18619.40	1.181
3.00	9	SND	8	0.00	27.14	22.62	27.14	22.62	16924.80	18619.40	1.100
5.03	1	SND	8	203.00	27.14	22.62	27.14	22.62	16220.40	18619.40	1.148
7.02	1	SND	18	0.00	27.14	36.19	27.14	36.19	-18262.10	-22315.30	1.222
8.71	1	SND	18	169.25	45.24	36.19	45.24	36.19	18907.10	29596.20	1.565
10.01	1	SND	25	0.00	45.24	36.19	45.24	36.19	-12281.70	-36368.80	2.961
13.06	9	SND	26	255.00	18.10	13.57	18.10	13.57	-12356.10	-14850.70	1.202

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>
0.25	18	SLE R	1	25.00	27.14	22.62	505.29	-45.53	105.82	4.72
0.25	20	SLE Q	1	25.00	27.14	22.62	472.08	-42.54	98.87	4.41
1.50	18	SLE R	1	150.00	27.14	22.62	-778.85	137.16	-75.31	7.38
1.50	20	SLE Q	1	150.00	27.14	22.62	-729.06	128.39	-70.50	6.91
3.00	18	SLE R	8	0.00	27.14	22.62	-632.72	111.43	-61.18	6.00
3.00	20	SLE Q	8	0.00	27.14	22.62	-553.29	97.44	-53.50	5.24
5.03	18	SLE R	8	203.00	27.14	22.62	-1350.84	237.89	-130.62	12.80
5.03	20	SLE Q	8	203.00	27.14	22.62	-1223.33	215.44	-118.29	11.59
7.02	18	SLE R	18	0.00	27.14	36.19	-700.27	122.38	-53.81	5.55
7.02	20	SLE Q	18	0.00	27.14	36.19	-624.30	109.10	-47.97	4.94
8.71	18	SLE R	18	169.25	45.24	36.19	-692.52	73.74	-51.62	4.83
8.71	20	SLE Q	18	169.25	45.24	36.19	-617.77	65.78	-46.05	4.31
10.01	18	SLE R	25	0.00	45.24	36.19	-2775.91	295.60	-206.91	19.38
10.01	20	SLE Q	25	0.00	45.24	36.19	-2529.14	269.32	-188.51	17.65
13.06	18	SLE R	26	255.00	18.10	13.57	-2551.02	668.63	-307.48	31.34
13.06	20	SLE Q	26	255.00	18.10	13.57	-2255.03	591.05	-271.80	27.71

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>
19	0.25	20	SLE Q	1	4	25.00	472.08	23.00	104.00	0.50	24.00	78.15	22.62	303.04	98.87	0.03	0.00
20	0.25	19	SLE F	1	4	25.00	480.76	23.00	104.00	0.50	24.00	78.15	22.62	303.04	100.68	0.03	0.00
39	1.50	20	SLE Q	1	4	150.00	-729.06	23.00	83.20	0.50	24.00	71.14	27.14	284.27	128.39	0.04	0.00
40	1.50	19	SLE F	1	4	150.00	-741.89	23.00	83.20	0.50	24.00	71.14	27.14	284.27	130.65	0.04	0.00
62	3.00	20	SLE Q	8	4	0.00	-553.29	23.00	83.20	0.50	24.00	71.14	27.14	284.27	97.44	0.03	0.00
64	3.00	19	SLE F	8	4	0.00	-577.79	23.00	83.20	0.50	24.00	71.14	27.14	284.27	101.75	0.03	0.00
83	5.03	20	SLE Q	8	4	203.00	-1223.33	23.00	83.20	0.50	24.00	71.14	27.14	284.27	215.44	0.06	0.01
84	5.03	19	SLE F	8	4	203.00	-1257.95	23.00	83.20	0.50	24.00	71.14	27.14	284.27	221.54	0.06	0.01
106	7.02	20	SLE Q	18	4	0.00	-624.30	23.00	83.20	0.50	24.00	72.65	27.14	301.44	109.10	0.03	0.00
108	7.02	19	SLE F	18	4	0.00	-645.81	23.00	83.20	0.50	24.00	72.65	27.14	301.44	112.86	0.03	0.00
129	8.71	20	SLE Q	18	4	169.25	-617.77	23.00	46.22	0.50	24.00	60.02	45.24	264.22	65.78	0.02	0.00
131	8.71	19	SLE F	18	4	169.25	-639.44	23.00	46.22	0.50	24.00	60.02	45.24	264.22	68.09	0.02	0.00
151	10.01	20	SLE Q	25	4	0.00	-2529.14	23.00	46.22	0.50	24.00	60.02	45.24	264.22	269.32	0.08	0.01
152	10.01	19	SLE F	25	4	0.00	-2599.48	23.00	46.22	0.50	24.00	60.02	45.24	264.22	276.81	0.08	0.01
171	13.06	20	SLE Q	26	4	255.00	-2255.03	23.00	138.67	0.50	24.00	85.53	18.10	298.08	591.05	0.17	0.03
172	13.06	19	SLE F	26	4	255.00	-2339.41	23.00	138.67	0.50	24.00	85.53	18.10	298.08	613.17	0.18	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	SND	0.25	0.53	0.28	ø10/10 2 br.	15.71	0.50	24425.10	2.50	33883.10	35761.60	1.387
9	SND	0.53	1.22	0.69	ø10/10 2 br.	15.71	0.50	24992.80	2.50	33883.10	35761.60	1.356
9	SND	1.22	1.50	0.28	ø10/10 2 br.	15.71	0.50	25904.80	2.50	33883.10	35761.60	1.308
1	SND	3.00	3.28	0.28	ø10/10 2 br.	15.71	0.50	18694.30	2.50	33883.10	35761.60	1.812
9	SND	3.28	4.75	1.47	ø10/10 2 br.	15.71	0.50	18442.50	2.50	33883.10	35761.60	1.837
9	SND	4.75	5.03	0.28	ø10/10 2 br.	15.71	0.50	19354.40	2.50	33883.10	35761.60	1.751
1	SND	7.02	7.30	0.28	ø10/10 2 br.	15.71	0.50	23885.10	2.50	33883.10	35761.60	1.419
1	SND	7.30	8.44	1.13	ø10/10 2 br.	15.71	0.50	22912.50	2.50	33883.10	35761.60	1.479
9	SND	8.44	8.71	0.28	ø10/10 2 br.	15.71	0.50	23877.40	2.50	33883.10	35761.60	1.419

Relazione di calcolo

1 SND	10.01	10.29	0.28	ø10/10 2 br.	15.71	0.50	12651.10	2.50	33883.10	35761.60	33883.10	2.678
1 SND	10.29	12.78	2.49	ø10/10 2 br.	15.71	0.50	11678.40	2.50	33883.10	35761.60	33883.10	2.901
9 SND	12.78	13.06	0.28	ø10/10 2 br.	15.71	0.50	11902.20	2.50	33883.10	35761.60	33883.10	2.847

Travata n. 213

Nodi: 2002 2005 2032

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	Afep S <cm²>	Afep I <cm²>	My <daNm>	MRdy <daNm>	Sic.
0.25	17	SLU	1	25.00	13.57	13.57	13.57	13.57	-2136.66	-11710.60	5.481
1.50	17	SLU	1	150.00	13.57	13.57	13.57	13.57	-3839.53	-11710.60	3.050
1.75	17	SLU	2	25.00	13.57	13.57	13.57	13.57	-6800.73	-11710.60	1.722
3.69	17	SLU	2	218.62	13.57	13.57	13.57	13.57	7156.31	11710.60	1.636
5.95	17	SLU	2	444.50	13.57	13.57	13.57	13.57	-10979.80	-11710.60	1.067

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	Afep S <cm²>	Afep I <cm²>	My <daNm>	M'ydy <daNm>	Sic.
0.25	5	SND	1	25.00	13.57	13.57	13.57	13.57	-7258.54	-11307.80	1.558
1.50	13	SND	1	150.00	13.57	13.57	13.57	13.57	-5711.02	-11307.80	1.980
1.75	5	SND	2	25.00	13.57	13.57	13.57	13.57	-6222.22	-11307.80	1.817
3.69	5	SND	2	218.62	13.57	13.57	13.57	13.57	4899.01	11307.80	2.308
5.95	13	SND	2	444.50	13.57	13.57	13.57	13.57	-9897.54	-11307.80	1.142

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	My <daNm>	σ _f sup <daN/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
0.25	18	SLE R	1	25.00	13.57	13.57	-1531.67	529.37	-188.42	20.54
0.25	20	SLE Q	1	25.00	13.57	13.57	-1331.49	460.18	-163.79	17.85
1.50	18	SLE R	1	150.00	13.57	13.57	-2668.62	922.32	-328.29	35.78
1.50	20	SLE Q	1	150.00	13.57	13.57	-2227.47	769.85	-274.02	29.87
1.75	18	SLE R	2	25.00	13.57	13.57	-4790.58	1655.70	-589.32	64.23
1.75	20	SLE Q	2	25.00	13.57	13.57	-4035.12	1394.60	-496.39	54.10
3.69	18	SLE R	2	218.62	13.57	13.57	5054.03	-621.73	1746.75	67.77
3.69	20	SLE Q	2	218.62	13.57	13.57	4294.56	-528.30	1484.26	57.58
5.95	18	SLE R	2	444.50	13.57	13.57	-7761.67	2682.55	-954.82	104.07
5.95	20	SLE Q	2	444.50	13.57	13.57	-6622.67	2288.89	-814.70	88.80

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 <cm²>	A _{c eff} <cm²>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
19	0.25	20	SLE Q	1	4	25.00	-1331.49	23.00	208.00	0.50	24.00	142.41	13.57	316.46	460.18	0.13	0.03
20	0.25	19	SLE F	1	4	25.00	-1382.25	23.00	208.00	0.50	24.00	142.41	13.57	316.46	477.73	0.14	0.03
41	1.50	20	SLE Q	1	4	150.00	-2227.47	23.00	208.00	0.50	24.00	142.41	13.57	316.46	769.85	0.22	0.05
42	1.50	19	SLE F	1	4	150.00	-2360.02	23.00	208.00	0.50	24.00	142.41	13.57	316.46	815.66	0.24	0.06
61	1.75	20	SLE Q	2	4	25.00	-4035.12	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1394.60	0.50	0.12
62	1.75	19	SLE F	2	4	25.00	-4253.20	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1469.97	0.45	0.11
81	3.69	20	SLE Q	2	4	218.62	4294.56	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1484.26	0.54	0.13
82	3.69	19	SLE F	2	4	218.62	4511.26	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1559.16	0.49	0.12
101	5.95	20	SLE Q	2	4	444.50	-6622.67	23.00	208.00	0.50	24.00	142.41	13.57	316.46	2288.89	0.93	0.23
102	5.95	19	SLE F	2	4	444.50	-6946.09	23.00	208.00	0.50	24.00	142.41	13.57	316.46	2400.67	0.90	0.22

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cm²/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5 SND	0.25	0.53	0.28	ø10/15 2 br.	10.47	0.50	10017.20	2.50	22588.70	35761.60	22588.70	2.255
13 SND	0.53	1.22	0.69	ø10/15 2 br.	10.47	0.50	10014.20	2.50	22588.70	35761.60	22588.70	2.256
13 SND	1.22	1.50	0.28	ø10/15 2 br.	10.47	0.50	11450.80	2.50	22588.70	35761.60	22588.70	1.973
17 SLU	1.75	2.03	0.28	ø10/15 2 br.	10.47	0.50	13616.20	2.50	22588.70	35761.60	22588.70	1.659
17 SLU	2.03	5.67	3.63	ø10/15 2 br.	10.47	0.50	13657.90	2.50	22588.70	35761.60	22588.70	1.654
17 SLU	5.67	5.95	0.28	ø10/15 2 br.	10.47	0.50	15608.60	2.50	22588.70	35761.60	22588.70	1.447

Travata n. 215

Nodi: 2033 2010 -553 2080

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.12	17	SLU	1	12.50	13.57	9.42	13.57	9.42	-8383.95	-11705.20	1.396
1.86	17	SLU	1	185.76	13.57	9.42	13.57	9.42	6092.30	8299.43	1.362
4.19	17	SLU	1	419.00	13.57	9.42	13.57	9.42	-9326.18	-11705.20	1.255
4.44	17	SLU	2	0.00	13.57	9.42	13.57	9.42	-11233.60	-11705.20	1.042
5.92	17	SLU	3	3.08	13.57	9.42	13.57	9.42	6436.49	8299.43	1.289
7.74	17	SLU	3	185.00	13.57	9.42	13.57	9.42	-4536.63	-11705.20	2.580

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.12	5	SND	1	12.50	13.57	9.42	13.57	9.42	-7975.32	-11258.90	1.412
1.86	13	SND	1	185.76	13.57	9.42	13.57	9.42	4143.47	7974.15	1.925
4.19	13	SND	1	419.00	13.57	9.42	13.57	9.42	-8190.71	-11258.90	1.375
4.44	5	SND	2	0.00	13.57	9.42	13.57	9.42	-10691.80	-11258.90	1.053
5.92	5	SND	3	3.08	13.57	9.42	13.57	9.42	4612.74	7974.15	1.729
7.74	13	SND	3	185.00	13.57	9.42	13.57	9.42	-7004.36	-11258.90	1.607

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/cm ² >	σ_f inf <daN/cm ² >	σ_c <daN/cm ² >
0.12	18	SLE R	1	12.50	13.57	9.42	-5933.33	2056.65	-810.78	85.91
0.12	20	SLE Q	1	12.50	13.57	9.42	-5025.81	1742.08	-686.77	72.77
1.86	18	SLE R	1	185.76	13.57	9.42	4306.59	-537.50	2117.32	65.33
1.86	20	SLE Q	1	185.76	13.57	9.42	3634.82	-453.65	1787.05	55.14
4.19	18	SLE R	1	419.00	13.57	9.42	-6560.35	2273.99	-896.46	94.99
4.19	20	SLE Q	1	419.00	13.57	9.42	-5624.38	1949.56	-768.57	81.44
4.44	18	SLE R	2	0.00	13.57	9.42	-7844.46	2719.10	-1071.94	113.58
4.44	20	SLE Q	2	0.00	13.57	9.42	-6931.03	2402.48	-947.12	100.36
5.92	18	SLE R	3	3.08	13.57	9.42	4477.42	-558.81	2201.30	67.92
5.92	20	SLE Q	3	3.08	13.57	9.42	4025.61	-502.43	1979.18	61.07
7.74	18	SLE R	3	185.00	13.57	9.42	-3174.37	1100.32	-433.77	45.96
7.74	20	SLE Q	3	185.00	13.57	9.42	-2794.91	968.79	-381.92	40.47

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 <cm ² >	A _{c eff} <cm ² >	σ_s <daN/cm ² >	ϵ_{sm}	Wk <mm>
19	0.12	20	SLE Q	1	4	12.50	-5025.81	23.00	208.00	0.50	24.00	139.22	13.57	309.37	1742.08	0.67	0.16
20	0.12	19	SLE F	1	4	12.50	-5285.01	23.00	208.00	0.50	24.00	139.22	13.57	309.37	1831.92	0.63	0.15
39	1.86	20	SLE Q	1	4	185.76	3634.82	25.00	210.00	0.50	20.00	151.86	9.42	337.47	1787.05	0.62	0.16
40	1.86	19	SLE F	1	4	185.76	3827.23	25.00	210.00	0.50	20.00	151.86	9.42	337.47	1881.64	0.55	0.14
59	4.19	20	SLE Q	1	4	419.00	-5624.38	23.00	208.00	0.50	24.00	139.22	13.57	309.37	1949.56	0.77	0.18
60	4.19	19	SLE F	1	4	419.00	-5891.01	23.00	208.00	0.50	24.00	139.22	13.57	309.37	2041.98	0.73	0.17
79	4.44	20	SLE Q	2	4	0.00	-6931.03	23.00	208.00	0.50	24.00	139.22	13.57	309.37	2402.48	0.99	0.23
80	4.44	19	SLE F	2	4	0.00	-7188.18	23.00	208.00	0.50	24.00	139.22	13.57	309.37	2491.61	0.95	0.22
99	5.92	20	SLE Q	3	4	3.08	4025.61	25.00	210.00	0.50	20.00	151.86	9.42	337.47	1979.18	0.71	0.18
100	5.92	19	SLE F	3	4	3.08	4147.66	25.00	210.00	0.50	20.00	151.86	9.42	337.47	2039.18	0.61	0.16
123	7.74	20	SLE Q	3	4	185.00	-2794.91	23.00	208.00	0.50	24.00	139.22	13.57	309.37	968.79	0.30	0.07
124	7.74	19	SLE F	3	4	185.00	-2896.77	23.00	208.00	0.50	24.00	139.22	13.57	309.37	1004.10	0.29	0.07

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
17 SLU	0.12	0.41	0.28	ø10/10 2 br.	15.71	0.50	13927.80	2.50	33883.10	35761.60	33883.10	2.433
17 SLU	0.41	3.91	3.50	ø10/10 2 br.	15.71	0.50	12440.70	2.50	33883.10	35761.60	33883.10	2.724
17 SLU	3.91	4.19	0.28	ø10/10 2 br.	15.71	0.50	14391.40	2.50	33883.10	35761.60	33883.10	2.354
17 SLU	4.44	4.72	0.28	ø10/10 2 br.	15.71	0.50	16578.20	2.50	33883.10	35761.60	33883.10	2.044
17 SLU	4.72	7.46	2.74	ø10/10 2 br.	15.71	0.50	14627.60	2.50	33883.10	35761.60	33883.10	2.316
17 SLU	7.46	7.74	0.28	ø10/10 2 br.	15.71	0.50	13262.70	2.50	33883.10	35761.60	33883.10	2.555

Travata n. 216

Nodi: 2011 -30750 -30749 -30748 -30747 -14532 2020 -35838 -29598 -30994 -30993 -30992 -30991 -30990 2027 2036 2042 -24370 -24369 -24368 -24367 -22848 -29495 -29494 -29435 -29810 -29809 2068 -555 2081

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.54	17	SLU	7	3.60	27.14	36.19	27.14	36.19	905.96	30120.80	33.247
2.50	17	SLU	7	100.00	27.14	36.19	27.14	36.19	-1020.59	-22855.10	22.394

Relazione di calcolo

4.21	17	SLU	15	0.00	13.57	13.57	13.57	13.57	660.62	11710.60	17.727
5.95	17	SLU	15	173.50	13.57	13.57	13.57	13.57	-2950.68	-11710.60	3.969
6.20	17	SLU	16	12.50	13.57	13.57	13.57	13.57	-3253.45	-11710.60	3.599
8.16	17	SLU	16	209.00	27.14	19.60	27.14	19.60	-861.58	-22753.00	26.408
10.51	17	SLU	28	0.00	13.57	6.03	13.57	6.03	-6605.52	-11684.30	1.769

Stato limite elastico - 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>	M' ydy <daNm>	Sic.
1.54	13	SND	7	3.60	27.14	36.19	27.14	36.19	-12858.80	-22315.30	1.735
2.50	5	SND	7	100.00	27.14	36.19	27.14	36.19	-14698.30	-22315.30	1.518
4.21	13	SND	15	0.00	13.57	13.57	13.57	13.57	11186.70	11307.80	1.011
5.95	13	SND	15	173.50	13.57	13.57	13.57	13.57	-11147.40	-11307.80	1.014
6.20	13	SND	16	12.50	13.57	13.57	13.57	13.57	-9200.43	-11307.80	1.229
8.16	13	SND	16	209.00	27.14	19.60	27.14	19.60	8527.17	16227.60	1.903
10.51	5	SND	28	0.00	13.57	6.03	13.57	6.03	-8562.20	-11199.50	1.308

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>	
1.54	18	SLE	R	7	3.60	27.14	36.19	634.20	-55.37	84.34	5.24
1.54	20	SLE	Q	7	3.60	27.14	36.19	605.45	-52.86	80.52	5.01
2.50	18	SLE	R	7	100.00	27.14	36.19	-714.99	124.95	-54.94	5.66
2.50	20	SLE	Q	7	100.00	27.14	36.19	-685.92	119.87	-52.71	5.43
4.21	18	SLE	R	15	0.00	13.57	13.57	479.58	-59.00	165.75	6.43
4.21	20	SLE	Q	15	0.00	13.57	13.57	432.28	-53.18	149.40	5.80
5.95	18	SLE	R	15	173.50	13.57	13.57	-2094.28	723.82	-257.63	28.08
5.95	20	SLE	Q	15	173.50	13.57	13.57	-1871.75	646.90	-230.26	25.10
6.20	18	SLE	R	16	12.50	13.57	13.57	-2317.02	800.80	-285.03	31.07
6.20	20	SLE	Q	16	12.50	13.57	13.57	-2072.69	716.35	-254.98	27.79
8.16	18	SLE	R	16	209.00	27.14	19.60	-559.98	98.89	-57.39	5.56
8.16	20	SLE	Q	16	209.00	27.14	19.60	-454.24	80.22	-46.55	4.51
10.51	18	SLE	R	28	0.00	13.57	6.03	-4640.84	1614.40	-696.20	72.09
10.51	20	SLE	Q	28	0.00	13.57	6.03	-4211.20	1464.95	-631.75	65.41

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>	
19	1.54	20	SLE	Q	7	4	3.60	605.45	23.00	59.43	0.50	24.00	63.88	36.19	269.63	80.52	0.02	0.00
20	1.54	19	SLE	F	7	4	3.60	612.10	23.00	59.43	0.50	24.00	63.88	36.19	269.63	81.41	0.02	0.00
39	2.50	20	SLE	Q	7	4	100.00	-685.92	23.00	83.20	0.50	24.00	72.65	27.14	301.44	119.87	0.03	0.00
40	2.50	19	SLE	F	7	4	100.00	-692.58	23.00	83.20	0.50	24.00	72.65	27.14	301.44	121.04	0.04	0.00
61	4.21	20	SLE	Q	15	4	0.00	432.28	23.00	208.00	0.50	24.00	142.41	13.57	316.46	149.40	0.04	0.01
63	4.21	19	SLE	F	15	4	0.00	442.71	23.00	208.00	0.50	24.00	142.41	13.57	316.46	153.01	0.04	0.01
83	5.95	20	SLE	Q	15	4	173.50	-1871.75	23.00	208.00	0.50	24.00	142.41	13.57	316.46	646.90	0.19	0.05
84	5.95	19	SLE	F	15	4	173.50	-1929.08	23.00	208.00	0.50	24.00	142.41	13.57	316.46	666.72	0.19	0.05
103	6.20	20	SLE	Q	16	4	12.50	-2072.69	23.00	208.00	0.50	24.00	142.41	13.57	316.46	716.35	0.21	0.05
104	6.20	19	SLE	F	16	4	12.50	-2136.11	23.00	208.00	0.50	24.00	142.41	13.57	316.46	738.27	0.22	0.05
126	8.16	20	SLE	Q	16	4	209.00	361.40	25.00	83.20	0.50	20.80	83.15	19.60	312.44	86.97	0.03	0.00
128	8.16	19	SLE	F	16	4	209.00	364.80	25.00	83.20	0.50	20.80	83.15	19.60	312.44	87.79	0.03	0.00
149	10.51	20	SLE	Q	28	4	0.00	-4211.20	23.00	208.00	0.50	24.00	136.29	13.57	302.88	1464.95	0.54	0.13
150	10.51	19	SLE	F	28	4	0.00	-4325.49	23.00	208.00	0.50	24.00	136.29	13.57	302.88	1504.70	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.
5 SND	1.50	1.78	0.28	ø10/10 2 br.	15.71	0.50	27914.80	2.50	33883.10	35761.60	33883.10	1.214
5 SND	1.78	2.22	0.44	ø10/10 2 br.	15.71	0.50	29312.90	2.50	33883.10	35761.60	33883.10	1.156
5 SND	2.22	2.50	0.28	ø10/10 2 br.	15.71	0.50	30202.60	2.50	33883.10	35761.60	33883.10	1.122
5 SND	4.21	4.49	0.28	ø10/10 2 br.	15.71	0.50	14353.50	2.50	33883.10	35761.60	33883.10	2.361
13 SND	4.49	5.67	1.17	ø10/10 2 br.	15.71	0.50	14927.00	2.50	33883.10	35761.60	33883.10	2.270
13 SND	5.67	5.95	0.28	ø10/10 2 br.	15.71	0.50	16202.10	2.50	33883.10	35761.60	33883.10	2.091
13 SND	6.20	6.47	0.28	ø10/10 2 br.	15.71	0.50	12839.70	2.50	33883.10	35761.60	33883.10	2.639
13 SND	6.47	7.88	1.40	ø10/10 2 br.	15.71	0.50	11625.20	2.50	33883.10	35761.60	33883.10	2.915
5 SND	7.88	8.16	0.28	ø10/10 2 br.	15.71	0.50	11192.40	2.50	33883.10	35761.60	33883.10	3.027
17 SLU	10.51	10.79	0.28	ø10/10 2 br.	15.71	0.50	9080.07	2.50	33883.10	35761.60	33883.10	3.732
17 SLU	10.79	14.02	3.23	ø10/10 2 br.	15.71	0.50	8163.16	2.50	33883.10	35761.60	33883.10	4.151

Travata n. 218

Nodi: 2043 2046 -37267 -37266 -37265 -37264 -37263 -37262 -37261 -37260 2070

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>
6R		20.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Relazione di calcolo

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	17	SLU	1	40.00	6.03	6.03	6.03	6.03	-137.33	-5178.98	37.711

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.40	13	SND	1	40.00	6.03	6.03	6.03	6.03	3651.21	5006.46	1.371

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_{ϵ} sup <daN/cmq>	σ_{ϵ} inf <daN/cmq>	σ_c <daN/cmq>
0.40	18	SLE R	1	40.00	6.03	6.03	-95.22	74.27	-28.07	3.01
0.40	20	SLE Q	1	40.00	6.03	6.03	-72.03	56.18	-21.24	2.28

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>
19	0.40	20	SLE Q	1		640.00	-72.03	27.00	64.00	0.50	16.00	87.14	6.03	124.93	56.18	0.02	0.00
20	0.40	19	SLE F	1		640.00	-77.76	27.00	64.00	0.50	16.00	87.14	6.03	124.93	60.65	0.02	0.00

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 SND	0.04	0.40	0.36	ø8/15 2 br.		6.70	0.20	13310.00	2.48	14368.30	14368.30	1.080

Travata n. 220

Nodi: 2018 -16066 -16065 -16064 -16063 -16062 2021 -35801 -29336 -31492 -31491 -31490 -31489 -31488 2028 -36925 -36927 -36928 2038 -36929 2040 2044 -37670 2072 -556 2085

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	E1	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.54	17	SLU	7	3.60	31.67	36.19	31.67	36.19	943.14	30193.40	32.014
2.50	17	SLU	7	100.00	31.67	36.19	31.67	36.19	-1112.45	-26552.90	23.869
4.21	17	SLU	15	0.00	13.57	13.57	13.57	13.57	-1323.56	-11710.60	8.848
6.21	17	SLU	19	14.50	31.67	31.67	31.67	31.67	-3196.08	-26530.20	8.301
6.46	17	SLU	21	12.50	31.67	31.67	31.67	31.67	-3347.72	-26530.20	7.925
8.16	17	SLU	21	182.00	18.10	18.10	18.10	18.10	741.90	15421.10	20.786
8.96	17	SLU	22	80.00	18.10	18.10	18.10	18.10	339.11	15421.10	45.475
10.26	17	SLU	23	98.00	18.10	18.10	18.10	18.10	-3215.34	-15421.10	4.796
10.51	17	SLU	24	0.00	18.10	18.10	18.10	18.10	-7836.48	-15421.10	1.968

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	E1	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
1.54	5	SND	7	3.60	31.67	36.19	31.67	36.19	17665.70	29276.70	1.657
2.50	5	SND	7	100.00	31.67	36.19	31.67	36.19	-16963.10	-25879.40	1.526
4.21	13	SND	15	0.00	13.57	13.57	13.57	13.57	-9657.76	-11307.80	1.171
6.21	5	SND	19	14.50	31.67	31.67	31.67	31.67	-9367.62	-25784.20	2.752
6.46	13	SND	21	12.50	31.67	31.67	31.67	31.67	-9931.31	-25784.20	2.596
8.16	13	SND	21	182.00	18.10	18.10	18.10	18.10	12157.80	14930.50	1.228
8.96	5	SND	22	80.00	18.10	18.10	18.10	18.10	12208.20	14930.50	1.223
10.26	5	SND	23	98.00	18.10	18.10	18.10	18.10	-10401.40	-14930.50	1.435
10.51	9	SND	24	0.00	18.10	18.10	18.10	18.10	-7745.76	-14930.50	1.928

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_{ϵ} sup <daN/cmq>	σ_{ϵ} inf <daN/cmq>	σ_c <daN/cmq>
1.54	18	SLE R	7	3.60	31.67	36.19	669.13	-54.23	88.68	5.20
1.54	20	SLE Q	7	3.60	31.67	36.19	710.33	-57.57	94.14	5.52
2.50	18	SLE R	7	100.00	31.67	36.19	-790.96	118.99	-60.27	6.01
2.50	20	SLE Q	7	100.00	31.67	36.19	-831.31	125.06	-63.35	6.32
4.21	18	SLE R	15	0.00	13.57	13.57	-904.24	312.52	-111.24	12.12
4.21	20	SLE Q	15	0.00	13.57	13.57	-499.24	172.54	-61.41	6.69
6.21	18	SLE R	19	14.50	31.67	31.67	-2263.64	341.34	-185.08	18.19
6.21	20	SLE Q	19	14.50	31.67	31.67	-1817.79	274.11	-148.62	14.61
6.46	18	SLE R	21	12.50	31.67	31.67	-2389.43	360.31	-195.36	19.20
6.46	20	SLE Q	21	12.50	31.67	31.67	-2072.00	312.44	-169.41	16.65
8.16	18	SLE R	21	182.00	18.10	18.10	560.29	-61.06	146.34	6.37

Relazione di calcolo

8.16	20	SLE Q	21	182.00	18.10	18.10	548.50	-59.77	143.25	6.24
8.96	18	SLE R	22	80.00	18.10	18.10	233.90	-25.49	61.09	2.66
8.96	20	SLE Q	22	80.00	18.10	18.10	182.44	-19.88	47.65	2.08
10.26	18	SLE R	23	98.00	18.10	18.10	-2239.13	584.81	-244.01	25.48
10.26	20	SLE Q	23	98.00	18.10	18.10	-1985.36	518.53	-216.36	22.59
10.51	18	SLE R	24	0.00	18.10	18.10	-5488.46	1433.47	-598.11	62.45
10.51	20	SLE Q	24	0.00	18.10	18.10	-4956.37	1294.49	-540.13	56.39

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>
19	1.54	20	SLE Q	7	4	3.60	710.33	23.00	59.43	0.50	24.00	64.27	36.19	275.51	94.14	0.03	0.00
20	1.54	19	SLE F	7	4	3.60	699.55	23.00	59.43	0.50	24.00	64.27	36.19	275.51	92.71	0.03	0.00
39	2.50	20	SLE Q	7	4	100.00	-831.31	23.00	69.33	0.50	24.00	68.03	31.67	290.65	125.06	0.04	0.00
40	2.50	19	SLE F	7	4	100.00	-823.08	23.00	69.33	0.50	24.00	68.03	31.67	290.65	123.82	0.04	0.00
62	4.21	20	SLE Q	15	4	0.00	-499.24	23.00	208.00	0.50	24.00	142.41	13.57	316.46	172.54	0.05	0.01
64	4.21	19	SLE F	15	4	0.00	-591.51	23.00	208.00	0.50	24.00	142.41	13.57	316.46	204.43	0.06	0.01
83	6.21	20	SLE Q	19	4	14.50	-1817.79	23.00	69.33	0.50	24.00	67.62	31.67	285.28	274.11	0.08	0.01
84	6.21	19	SLE F	19	4	14.50	-1922.33	23.00	69.33	0.50	24.00	67.62	31.67	285.28	289.87	0.08	0.01
103	6.46	20	SLE Q	21	4	12.50	-2072.00	23.00	69.33	0.50	24.00	67.62	31.67	285.28	312.44	0.09	0.01
104	6.46	19	SLE F	21	4	12.50	-2151.08	23.00	69.33	0.50	24.00	67.62	31.67	285.28	324.37	0.09	0.01
126	8.16	20	SLE Q	21	4	182.00	548.50	23.00	138.67	0.50	24.00	86.49	18.10	305.29	143.25	0.04	0.01
128	8.16	19	SLE F	21	4	182.00	551.21	23.00	138.67	0.50	24.00	86.49	18.10	305.29	143.96	0.04	0.01
149	8.96	20	SLE Q	22	4	80.00	182.44	23.00	138.67	0.50	24.00	86.49	18.10	305.29	47.65	0.01	0.00
151	8.96	19	SLE F	22	4	80.00	195.26	23.00	138.67	0.50	24.00	86.49	18.10	305.29	51.00	0.01	0.00
171	10.26	20	SLE Q	23	4	98.00	-1985.36	23.00	138.67	0.50	24.00	86.49	18.10	305.29	518.53	0.15	0.02
172	10.26	19	SLE F	23	4	98.00	-2052.00	23.00	138.67	0.50	24.00	86.49	18.10	305.29	535.94	0.16	0.02
191	10.51	20	SLE Q	24	4	0.00	-4956.37	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1294.49	0.49	0.07
192	10.51	19	SLE F	24	4	0.00	-5097.94	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1331.47	0.44	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.
5 SND	1.50	1.78	0.28	ø10/ 9 2 br.	17.45	0.50	32294.40	2.43	36537.40	36537.40	36537.40	1.131
5 SND	1.78	2.22	0.44	ø10/ 9 2 br.	17.45	0.50	33751.30	2.43	36537.40	36537.40	36537.40	1.083
5 SND	2.22	2.50	0.28	ø10/ 9 2 br.	17.45	0.50	34678.40	2.43	36537.40	36537.40	36537.40	1.054
13 SND	4.21	4.49	0.28	ø10/10 2 br.	15.71	0.50	11499.50	2.50	33883.10	35761.60	33883.10	2.946
5 SND	4.49	5.93	1.45	ø10/10 2 br.	15.71	0.50	11805.60	2.50	33883.10	35761.60	33883.10	2.870
5 SND	5.93	6.21	0.28	ø10/10 2 br.	15.71	0.50	14578.90	2.50	33883.10	35761.60	33883.10	2.324
13 SND	6.46	6.75	0.28	ø10/10 2 br.	15.71	0.50	16313.10	2.50	33883.10	35761.60	33883.10	2.077
13 SND	6.75	7.88	1.13	ø10/10 2 br.	15.71	0.50	15000.60	2.50	33883.10	35761.60	33883.10	2.259
5 SND	7.88	8.16	0.28	ø10/10 2 br.	15.71	0.50	13982.90	2.50	33883.10	35761.60	33883.10	2.423
13 SND	8.96	9.24	0.28	ø10/10 2 br.	15.71	0.50	16575.60	2.50	33883.10	35761.60	33883.10	2.044
5 SND	9.24	9.98	0.74	ø10/10 2 br.	15.71	0.50	18914.70	2.50	33883.10	35761.60	33883.10	1.791
5 SND	9.98	10.26	0.28	ø10/10 2 br.	15.71	0.50	20013.70	2.50	33883.10	35761.60	33883.10	1.693
17 SLU	10.51	10.79	0.28	ø10/10 2 br.	15.71	0.50	11040.40	2.50	33883.10	35761.60	33883.10	3.069
17 SLU	10.79	14.02	3.23	ø10/10 2 br.	15.71	0.50	9956.63	2.50	33883.10	35761.60	33883.10	3.403

Travata n. 222

Nodi: 2003 2006 -542 2007 2009 -35230 -558 2087

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	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	25.00	13.57	13.57	13.57	13.57	-1347.41	-11710.60	8.691
1.50	17	SLU	1	150.00	13.57	13.57	13.57	13.57	-4372.13	-11710.60	2.678
1.75	17	SLU	2	25.00	13.57	13.57	13.57	13.57	-9923.19	-11710.60	1.180
3.80	17	SLU	3	30.17	13.57	13.57	13.57	13.57	7879.30	11710.60	1.486
6.21	17	SLU	3	271.50	31.67	31.67	31.67	31.67	-11436.40	-26530.20	2.320
6.46	17	SLU	4	12.50	31.67	31.67	31.67	31.67	-4988.31	-26530.20	5.318
6.77	17	SLU	4	42.75	18.10	18.10	18.10	18.10	-4753.76	-15421.10	3.244
9.15	17	SLU	4	281.50	18.10	18.10	18.10	18.10	-6458.60	-15421.10	2.388
9.40	17	SLU	5	12.50	18.10	18.10	18.10	18.10	-13750.90	-15421.10	1.121
11.96	17	SLU	7	0.00	18.10	18.10	18.10	18.10	11336.40	15421.10	1.360
13.81	17	SLU	7	185.00	18.10	18.10	18.10	18.10	-12153.30	-15421.10	1.269

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	13	SND	1	25.00	13.57	13.57	13.57	13.57	-9539.11	-11307.80	1.185
1.50	5	SND	1	150.00	13.57	13.57	13.57	13.57	-10104.90	-11307.80	1.119
1.75	13	SND	2	25.00	13.57	13.57	13.57	13.57	-9346.41	-11307.80	1.210

Relazione di calcolo

3.80	13	SND	3	30.17	13.57	13.57	13.57	13.57	5354.62	11307.80	2.112
6.21	5	SND	3	271.50	31.67	31.67	31.67	31.67	-10449.60	-25784.20	2.467
6.46	13	SND	4	12.50	31.67	31.67	31.67	31.67	-8513.66	-25784.20	3.029
6.77	13	SND	4	42.75	18.10	18.10	18.10	18.10	-8266.00	-14930.50	1.806
9.15	5	SND	4	281.50	18.10	18.10	18.10	18.10	-9187.71	-14930.50	1.625
9.40	13	SND	5	12.50	18.10	18.10	18.10	18.10	-12823.80	-14930.50	1.164
11.96	13	SND	7	0.00	18.10	18.10	18.10	18.10	8432.28	14930.50	1.771
13.81	5	SND	7	185.00	18.10	18.10	18.10	18.10	-12449.60	-14930.50	1.199

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>
0.25	18	SLE R	1	25.00	13.57	13.57	-942.65	325.79	-115.96	12.64
0.25	20	SLE Q	1	25.00	13.57	13.57	-803.79	277.80	-98.88	10.78
1.50	18	SLE R	1	150.00	13.57	13.57	-3090.39	1068.09	-380.17	41.44
1.50	20	SLE Q	1	150.00	13.57	13.57	-2647.50	915.02	-325.69	35.50
1.75	18	SLE R	2	25.00	13.57	13.57	-7028.08	2429.01	-864.57	94.23
1.75	20	SLE Q	2	25.00	13.57	13.57	-6021.68	2081.18	-740.77	80.74
3.80	18	SLE R	3	30.17	13.57	13.57	5584.00	-686.93	1929.92	74.87
3.80	20	SLE Q	3	30.17	13.57	13.57	4805.28	-591.13	1660.78	64.43
6.21	18	SLE R	3	271.50	31.67	31.67	-8104.98	1222.17	-662.67	65.12
6.21	20	SLE Q	3	271.50	31.67	31.67	-6954.11	1048.63	-568.57	55.87
6.46	18	SLE R	4	12.50	31.67	31.67	-3544.42	534.47	-289.80	28.48
6.46	20	SLE Q	4	12.50	31.67	31.67	-2987.86	450.55	-244.29	24.01
6.77	18	SLE R	4	42.75	18.10	18.10	-3378.20	882.31	-368.14	38.44
6.77	20	SLE Q	4	42.75	18.10	18.10	-2847.82	743.79	-310.35	32.40
9.15	18	SLE R	4	281.50	18.10	18.10	-4520.36	1180.62	-492.61	51.43
9.15	20	SLE Q	4	281.50	18.10	18.10	-3926.96	1025.64	-427.95	44.68
9.40	18	SLE R	5	12.50	18.10	18.10	-9628.64	2514.79	-1049.29	109.55
9.40	20	SLE Q	5	12.50	18.10	18.10	-8486.23	2216.42	-924.80	96.56
11.96	18	SLE R	7	0.00	18.10	18.10	7894.08	-860.27	2061.76	89.82
11.96	20	SLE Q	7	0.00	18.10	18.10	7088.92	-772.52	1851.47	80.66
13.81	18	SLE R	7	185.00	18.10	18.10	-8496.81	2219.18	-925.95	96.68
13.81	20	SLE Q	7	185.00	18.10	18.10	-7474.11	1952.08	-814.50	85.04

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>
19	0.25	20	SLE Q	1	4	25.00	-803.79	23.00	208.00	0.50	24.00	142.41	13.57	316.46	277.80	0.08	0.02
20	0.25	19	SLE F	1	4	25.00	-838.54	23.00	208.00	0.50	24.00	142.41	13.57	316.46	289.81	0.08	0.02
40	1.50	20	SLE Q	1	4	150.00	-2647.50	23.00	208.00	0.50	24.00	142.41	13.57	316.46	915.02	0.27	0.06
41	1.50	19	SLE F	1	4	150.00	-2781.01	23.00	208.00	0.50	24.00	142.41	13.57	316.46	961.16	0.28	0.07
60	1.75	20	SLE Q	2	4	25.00	-6021.68	23.00	208.00	0.50	24.00	142.41	13.57	316.46	2081.18	0.83	0.20
61	1.75	19	SLE F	2	4	25.00	-6309.19	23.00	208.00	0.50	24.00	142.41	13.57	316.46	2180.55	0.79	0.19
80	3.80	20	SLE Q	3	4	30.17	4805.28	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1660.78	0.63	0.15
81	3.80	19	SLE F	3	4	30.17	5028.32	23.00	208.00	0.50	24.00	142.41	13.57	316.46	1737.86	0.58	0.14
100	6.21	20	SLE Q	3	4	271.50	-6954.11	23.00	69.33	0.50	24.00	67.62	31.67	285.28	1048.63	0.42	0.05
101	6.21	19	SLE F	3	4	271.50	-7281.96	23.00	69.33	0.50	24.00	67.62	31.67	285.28	1098.07	0.40	0.05
121	6.46	20	SLE Q	4	4	12.50	-2987.86	23.00	69.33	0.50	24.00	67.62	31.67	285.28	450.55	0.13	0.02
122	6.46	19	SLE F	4	4	12.50	-3149.38	23.00	69.33	0.50	24.00	67.62	31.67	285.28	474.90	0.14	0.02
143	6.77	20	SLE Q	4	4	42.75	-2847.82	23.00	138.67	0.50	24.00	86.49	18.10	305.29	743.79	0.22	0.03
144	6.77	19	SLE F	4	4	42.75	-3001.83	23.00	138.67	0.50	24.00	86.49	18.10	305.29	784.01	0.23	0.03
166	9.15	20	SLE Q	4	4	281.50	-3926.96	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1025.64	0.36	0.05
167	9.15	19	SLE F	4	4	281.50	-4095.85	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1069.75	0.31	0.05
186	9.40	20	SLE Q	5	4	12.50	-8486.23	23.00	138.67	0.50	24.00	86.49	18.10	305.29	2216.42	0.94	0.14
187	9.40	19	SLE F	5	4	12.50	-8806.77	23.00	138.67	0.50	24.00	86.49	18.10	305.29	2300.14	0.91	0.13
206	11.96	20	SLE Q	7	4	0.00	7088.92	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1851.47	0.76	0.11
207	11.96	19	SLE F	7	4	0.00	7312.39	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1909.84	0.72	0.11
227	13.81	20	SLE Q	7	4	185.00	-7474.11	23.00	138.67	0.50	24.00	86.49	18.10	305.29	1952.08	0.81	0.12
228	13.81	19	SLE F	7	4	185.00	-7753.11	23.00	138.67	0.50	24.00	86.49	18.10	305.29	2024.94	0.78	0.11

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
13 SND	0.25	0.53	0.28	ø10/15 2 br.	10.47	0.50	14687.90	2.50	22588.70	35761.60	22588.70	1.538
5 SND	0.53	1.22	0.69	ø10/15 2 br.	10.47	0.50	16200.10	2.50	22588.70	35761.60	22588.70	1.394
5 SND	1.22	1.50	0.28	ø10/15 2 br.	10.47	0.50	17637.80	2.50	22588.70	35761.60	22588.70	1.281
17 SLU	1.75	2.03	0.28	ø10/15 2 br.	10.47	0.50	15717.00	2.50	22588.70	35761.60	22588.70	1.437
17 SLU	2.03	5.93	3.90	ø10/15 2 br.	10.47	0.50	14153.60	2.50	22588.70	35761.60	22588.70	1.596
17 SLU	5.93	6.21	0.28	ø10/15 2 br.	10.47	0.50	16106.20	2.50	22588.70	35761.60	22588.70	1.402
13 SND	6.46	6.75	0.28	ø10/15 2 br.	10.47	0.50	9283.68	2.50	22588.70	35761.60	22588.70	2.433
5 SND	6.75	8.88	2.13	ø10/15 2 br.	10.47	0.50	8811.28	2.50	22588.70	35761.60	22588.70	2.564
5 SND	8.88	9.15	0.28	ø10/15 2 br.	10.47	0.50	9981.89	2.50	22588.70	35761.60	22588.70	2.263
17 SLU	9.40	9.69	0.28	ø10/15 2 br.	10.47	0.50	18196.10	2.50	22588.70	35761.60	22588.70	1.241
17 SLU	9.69	13.53	3.85	ø10/15 2 br.	10.47	0.50	17614.80	2.50	22588.70	35761.60	22588.70	1.282
17 SLU	13.53	13.81	0.28	ø10/15 2 br.	10.47	0.50	19991.40	2.50	22588.70	35761.60	22588.70	1.130

Travata n. 223

Nodi: -37692 -37684 -38595 -38596 -38597 -38691 -37873 -37683 -37822 -37801 -37802 -37803 -37804 -37682 2092 -37681 -38145 -38146 -38147 -38700 -37911 2091 2090 -38369 -38370 -38371 -37680

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	25.00	22.62	22.62	22.62	22.62	755.17	19123.70	25.324
1.50	17	SLU	1	150.00	22.62	22.62	22.62	22.62	-1226.68	-19123.70	15.590
2.75	17	SLU	7	0.00	22.62	22.62	22.62	22.62	-2637.52	-19123.70	7.251
5.34	17	SLU	8	184.25	45.24	40.72	45.24	40.72	-2492.11	-37603.40	15.089
6.34	17	SLU	14	0.00	45.24	40.72	45.24	40.72	-1894.01	-37603.40	19.854
9.16	17	SLU	14	282.00	22.62	18.10	22.62	18.10	-2115.12	-19095.90	9.028
10.26	17	SLU	20	0.00	22.62	18.10	22.62	18.10	-3207.63	-19095.90	5.953
13.06	17	SLU	22	190.00	22.62	18.10	22.62	18.10	-2332.66	-19095.90	8.186

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	5	SND	1	25.00	22.62	22.62	22.62	22.62	17580.20	18546.50	1.055
1.50	5	SND	1	150.00	22.62	22.62	22.62	22.62	-18082.70	-18546.50	1.026
2.75	13	SND	7	0.00	22.62	22.62	22.62	22.62	-16517.80	-18546.50	1.123
5.34	5	SND	8	184.25	45.24	40.72	45.24	40.72	-16662.20	-36541.40	2.193
6.34	5	SND	14	0.00	45.24	40.72	45.24	40.72	13084.90	33151.70	2.534
9.16	13	SND	14	282.00	22.62	18.10	22.62	18.10	12953.50	14985.40	1.157
10.26	13	SND	20	0.00	22.62	18.10	22.62	18.10	-15281.30	-18446.40	1.207
13.06	13	SND	22	190.00	22.62	18.10	22.62	18.10	13018.10	14985.40	1.151

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/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
0.25	18	SLE R	1	25.00	22.62	22.62	532.34	-52.15	111.77	5.30
0.25	20	SLE Q	1	25.00	22.62	22.62	508.86	-49.85	106.84	5.06
1.50	18	SLE R	1	150.00	22.62	22.62	-866.45	181.92	-84.88	8.62
1.50	20	SLE Q	1	150.00	22.62	22.62	-828.85	174.02	-81.20	8.25
2.75	18	SLE R	7	0.00	22.62	22.62	-1846.51	387.69	-180.89	18.38
2.75	20	SLE Q	7	0.00	22.62	22.62	-1660.35	348.60	-162.66	16.52
5.34	18	SLE R	8	184.25	45.24	40.72	-1773.75	188.34	-123.97	11.74
5.34	20	SLE Q	8	184.25	45.24	40.72	-1592.17	169.06	-111.28	10.53
6.34	18	SLE R	14	0.00	45.24	40.72	-1345.52	142.87	-94.04	8.90
6.34	20	SLE Q	14	0.00	45.24	40.72	-1158.99	123.06	-81.01	7.67
9.16	18	SLE R	14	282.00	22.62	18.10	-1502.63	316.58	-161.10	16.05
9.16	20	SLE Q	14	282.00	22.62	18.10	-1287.00	271.15	-137.99	13.74
10.26	18	SLE R	20	0.00	22.62	18.10	-2241.22	472.19	-240.29	23.94
10.26	20	SLE Q	20	0.00	22.62	18.10	-2067.71	435.64	-221.69	22.08
13.06	18	SLE R	22	190.00	22.62	18.10	-1625.13	342.39	-174.24	17.36
13.06	20	SLE Q	22	190.00	22.62	18.10	-1406.88	296.41	-150.84	15.03

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 off} <cmq>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
19	0.25	20	SLE Q	1	4	25.00	508.86	23.00	104.00	0.50	24.00	77.51	22.62	296.98	106.84	0.03	0.00
20	0.25	19	SLE F	1	4	25.00	515.06	23.00	104.00	0.50	24.00	77.51	22.62	296.98	108.14	0.03	0.00
39	1.50	20	SLE Q	1	4	150.00	-828.85	23.00	104.00	0.50	24.00	77.51	22.62	296.98	174.02	0.05	0.01
40	1.50	19	SLE F	1	4	150.00	-838.67	23.00	104.00	0.50	24.00	77.51	22.62	296.98	176.08	0.05	0.01
59	2.75	20	SLE Q	7	4	0.00	-1660.35	23.00	104.00	0.50	24.00	77.51	22.62	296.98	348.60	0.10	0.01
60	2.75	19	SLE F	7	4	0.00	-1714.06	23.00	104.00	0.50	24.00	77.51	22.62	296.98	359.88	0.10	0.01
79	5.34	20	SLE Q	8	4	184.25	-1592.17	23.00	46.22	0.50	24.00	60.29	45.24	269.40	169.06	0.05	0.01
80	5.34	19	SLE F	8	4	184.25	-1643.44	23.00	46.22	0.50	24.00	60.29	45.24	269.40	174.50	0.05	0.01
99	6.34	20	SLE Q	14	4	0.00	-1158.99	23.00	46.22	0.50	24.00	60.29	45.24	269.40	123.06	0.04	0.00
100	6.34	19	SLE F	14	4	0.00	-1212.78	23.00	46.22	0.50	24.00	60.29	45.24	269.40	128.77	0.04	0.00
119	9.16	20	SLE Q	14	4	282.00	-1287.00	23.00	104.00	0.50	24.00	76.80	22.62	290.29	271.15	0.08	0.01
120	9.16	19	SLE F	14	4	282.00	-1348.15	23.00	104.00	0.50	24.00	76.80	22.62	290.29	284.04	0.08	0.01
139	10.26	20	SLE Q	20	4	0.00	-2067.71	23.00	104.00	0.50	24.00	76.80	22.62	290.29	435.64	0.13	0.02
140	10.26	19	SLE F	20	4	0.00	-2117.29	23.00	104.00	0.50	24.00	76.80	22.62	290.29	446.08	0.13	0.02
159	13.06	20	SLE Q	22	4	190.00	-1406.88	23.00	104.00	0.50	24.00	76.80	22.62	290.29	296.41	0.09	0.01
160	13.06	19	SLE F	22	4	190.00	-1469.13	23.00	104.00	0.50	24.00	76.80	22.62	290.29	309.52	0.09	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <mm>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
13 SND	0.25	0.53	0.28	ø10/10 2 br.	15.71	0.50	27417.60	2.50	33883.10	35761.60	33883.10	1.236

Relazione di calcolo

5 SND	0.53	1.22	0.69	ø10/10 2 br.	15.71	0.50	28330.60	2.50	33883.10	35761.60	33883.10	1.196
5 SND	1.22	1.50	0.28	ø10/10 2 br.	15.71	0.50	29206.40	2.50	33883.10	35761.60	33883.10	1.160
13 SND	2.75	3.03	0.28	ø10/15 2 br.	10.47	0.50	16477.20	2.50	22588.70	35761.60	22588.70	1.371
13 SND	3.03	5.06	2.03	ø10/15 2 br.	10.47	0.50	15601.50	2.50	22588.70	35761.60	22588.70	1.448
5 SND	5.06	5.34	0.28	ø10/16 2 br.	9.82	0.50	15343.30	2.50	21176.90	35761.60	21176.90	1.380
13 SND	6.34	6.62	0.28	ø10/15 2 br.	10.47	0.50	12280.80	2.50	22588.70	35761.60	22588.70	1.839
5 SND	6.62	8.88	2.26	ø10/15 2 br.	10.47	0.50	11762.90	2.50	22588.70	35761.60	22588.70	1.920
5 SND	8.88	9.16	0.28	ø10/15 2 br.	10.47	0.50	12371.50	2.50	22588.70	35761.60	22588.70	1.826
13 SND	10.26	10.54	0.28	ø10/15 2 br.	10.47	0.50	14062.90	2.50	22588.70	35761.60	22588.70	1.606
13 SND	10.54	12.78	2.24	ø10/15 2 br.	10.47	0.50	13187.20	2.50	22588.70	35761.60	22588.70	1.713
5 SND	12.78	13.06	0.28	ø10/15 2 br.	10.47	0.50	13590.90	2.50	22588.70	35761.60	22588.70	1.662

Travata n. 224

Nodi: 2018 2003 -38796 -37692

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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	17	SLU	1	556.00	12.57	9.42	12.57	9.42	-582.97	-10761.60	18.460
5.18	17	SLU	1	38.00	12.57	9.42	12.57	9.42	-860.23	-10761.60	12.510
5.98	17	SLU	2	222.00	12.57	9.42	12.57	9.42	-2668.48	-10761.60	4.033
9.81	17	SLU	3	80.00	12.57	9.42	12.57	9.42	-1431.30	-10761.60	7.519

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.00	1	SND	1	556.00	12.57	9.42	12.57	9.42	4111.49	7910.63	1.924
5.18	9	SND	1	38.00	12.57	9.42	12.57	9.42	4214.01	7910.63	1.877
5.98	13	SND	2	222.00	12.57	9.42	12.57	9.42	-8998.67	-10370.60	1.152
9.81	13	SND	3	80.00	12.57	9.42	12.57	9.42	6417.26	7910.63	1.233

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	18	SLE R	1	556.00	12.57	9.42	-458.33	172.27	-72.89	7.58
0.00	20	SLE Q	1	556.00	12.57	9.42	-470.45	176.82	-74.82	7.78
5.18	18	SLE R	1	38.00	12.57	9.42	-657.34	247.07	-104.54	10.88
5.18	20	SLE Q	1	38.00	12.57	9.42	-647.78	243.47	-103.02	10.72
5.98	18	SLE R	2	222.00	12.57	9.42	-1862.25	699.94	-296.16	30.81
5.98	20	SLE Q	2	222.00	12.57	9.42	-1861.24	699.57	-296.00	30.80
9.81	18	SLE R	3	80.00	12.57	9.42	-959.92	360.80	-152.66	15.88
9.81	20	SLE Q	3	80.00	12.57	9.42	-960.14	360.88	-152.70	15.89

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>
19	0.00	20	SLE Q	1	3	556.00	-470.45	25.00	108.00	0.50	20.00	88.74	12.57	243.42	176.82	0.05	0.01
20	0.00	19	SLE F	1	3	556.00	-467.72	25.00	108.00	0.50	20.00	88.74	12.57	243.42	175.80	0.05	0.01
39	5.18	20	SLE Q	1	3	38.00	-647.78	25.00	108.00	0.50	20.00	88.74	12.57	243.42	243.47	0.07	0.01
40	5.18	19	SLE F	1	3	38.00	-649.86	25.00	108.00	0.50	20.00	88.74	12.57	243.42	244.25	0.07	0.01
59	5.98	20	SLE Q	2	3	222.00	-1861.24	25.00	108.00	0.50	20.00	88.74	12.57	243.42	699.57	0.20	0.03
60	5.98	19	SLE F	2	3	222.00	-1861.55	25.00	108.00	0.50	20.00	88.74	12.57	243.42	699.68	0.20	0.03
79	9.81	20	SLE Q	3	3	80.00	-960.14	25.00	108.00	0.50	20.00	88.74	12.57	243.42	360.88	0.11	0.02
80	9.81	19	SLE F	3	3	80.00	-960.01	25.00	108.00	0.50	20.00	88.74	12.57	243.42	360.83	0.11	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.
9 SND	0.00	0.28	0.28	ø8/15 2 br.	6.70	0.40	2367.95	2.50	14456.80	28609.20	14456.80	6.105
1 SND	0.28	4.90	4.62	ø8/15 2 br.	6.70	0.40	2358.01	2.50	14456.80	28609.20	14456.80	6.131
1 SND	4.90	5.18	0.28	ø8/15 2 br.	6.70	0.40	2436.41	2.50	14456.80	28609.20	14456.80	5.934
13 SND	5.98	6.26	0.28	ø8/15 2 br.	6.70	0.40	6235.23	2.50	14456.80	28609.20	14456.80	2.319
13 SND	6.26	9.53	3.27	ø8/15 2 br.	6.70	0.40	5889.70	2.50	14456.80	28609.20	14456.80	2.455
5 SND	9.53	9.81	0.28	ø8/15 2 br.	6.70	0.40	5764.85	2.50	14456.80	28609.20	14456.80	2.508

Travata n. 225

Nodi: 2021 2006 -37684

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>
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3R	40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
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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	17	SLU	1	556.00	8.04	6.03	8.04	6.03	-3658.14	-7056.24	1.929
3.71	17	SLU	1	185.50	8.04	6.03	8.04	6.03	1593.52	5395.16	3.386
4.94	17	SLU	1	62.00	8.04	6.03	8.04	6.03	-2999.41	-7056.24	2.353
5.44	17	SLU	1	12.00	8.04	6.03	8.04	6.03	-2999.41	-7056.24	2.353
10.36	17	SLU	2	25.00	8.04	6.03	8.04	6.03	-425.41	-7056.24	16.587

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CCT	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
0.00	9	SND	1	556.00	8.04	6.03	8.04	6.03	-6538.08	-6766.82	1.035
3.71	9	SND	1	185.50	8.04	6.03	8.04	6.03	2932.02	5144.72	1.755
4.94	1	SND	1	62.00	8.04	6.03	8.04	6.03	-6114.47	-6766.82	1.107
5.44	1	SND	1	12.00	8.04	6.03	8.04	6.03	-6114.47	-6766.82	1.107
10.36	13	SND	2	25.00	8.04	6.03	8.04	6.03	4099.73	5144.72	1.255

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_e sup <daN/cmq>	σ_e inf <daN/cmq>	σ_c <daN/cmq>
0.00	18	SLE R	1	556.00	8.04	6.03	-2517.07	1456.17	-462.17	52.13
0.00	20	SLE Q	1	556.00	8.04	6.03	-2499.67	1446.10	-458.98	51.77
3.71	18	SLE R	1	185.50	8.04	6.03	1096.15	-188.53	836.24	23.96
3.71	20	SLE Q	1	185.50	8.04	6.03	1084.56	-186.54	827.41	23.70
4.94	18	SLE R	1	62.00	8.04	6.03	-2060.14	1191.83	-378.27	42.66
4.94	20	SLE Q	1	62.00	8.04	6.03	-2082.98	1205.04	-382.47	43.14
5.44	18	SLE R	1	12.00	8.04	6.03	-2060.14	1191.83	-378.27	42.66
5.44	20	SLE Q	1	12.00	8.04	6.03	-2082.98	1205.04	-382.47	43.14
10.36	18	SLE R	2	25.00	8.04	6.03	-328.37	189.97	-60.29	6.80
10.36	20	SLE Q	2	25.00	8.04	6.03	-307.30	177.78	-56.42	6.36

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>
21	0.00	20	SLE Q	1	3	556.00	-2499.67	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1446.10	0.47	0.08
22	0.00	19	SLE F	1	3	556.00	-2504.83	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1449.08	0.42	0.08
45	3.71	20	SLE Q	1	3	185.50	1084.56	27.00	164.00	0.50	16.00	126.99	6.03	275.15	827.41	0.24	0.05
46	3.71	19	SLE F	1	3	185.50	1087.82	27.00	164.00	0.50	16.00	126.99	6.03	275.15	829.89	0.24	0.05
65	4.94	20	SLE Q	1	3	62.00	-2082.98	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1205.04	0.35	0.06
66	4.94	19	SLE F	1	3	62.00	-2076.44	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1201.25	0.35	0.06
85	5.44	20	SLE Q	1	3	12.00	-2082.98	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1205.04	0.35	0.06
86	5.44	19	SLE F	1	3	12.00	-2076.44	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1201.25	0.35	0.06
105	10.36	20	SLE Q	2	3	25.00	-307.30	27.00	109.33	0.50	16.00	105.57	8.04	259.21	177.78	0.05	0.01
106	10.36	19	SLE F	2	3	25.00	-312.58	27.00	109.33	0.50	16.00	105.57	8.04	259.21	180.83	0.05	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <cm>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SND	0.00	0.28	0.28	ø8/15 2 br.	6.70	0.40	4765.85	2.50	14456.80	28609.20	14456.80	3.033
9 SND	0.28	4.66	4.38	ø8/15 2 br.	6.70	0.40	4420.33	2.50	14456.80	28609.20	14456.80	3.271
1 SND	4.66	4.94	0.28	ø8/15 2 br.	6.70	0.40	4597.15	2.50	14456.80	28609.20	14456.80	3.145
1 SND	5.44	5.72	0.28	ø8/15 2 br.	6.70	0.40	4597.15	2.50	14456.80	28609.20	14456.80	3.145
13 SND	5.72	10.08	4.36	ø8/15 2 br.	6.70	0.40	2477.28	2.50	14456.80	28609.20	14456.80	5.836
5 SND	10.08	10.36	0.28	ø8/15 2 br.	6.70	0.40	2327.75	2.50	14456.80	28609.20	14456.80	6.211

Travata n. 233

Nodi: -556 -557 -558

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
5R		28.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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	17	SLU	1	150.00	6.03	6.03	6.03	6.03	-4031.38	-5269.62	1.307
2.75	17	SLU	2	281.08	6.03	6.03	6.03	6.03	3498.61	5269.62	1.506
5.52	17	SLU	2	3.60	6.03	6.03	6.03	6.03	-3280.22	-5269.62	1.606

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
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0.00	1	SND	1	150.00	6.03	6.03	6.03	6.03	-3855.09	-5069.32	1.315
2.75	1	SND	2	281.08	6.03	6.03	6.03	6.03	2582.94	5069.32	1.963
5.52	9	SND	2	3.60	6.03	6.03	6.03	6.03	-3631.32	-5069.32	1.396

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	18	SLE R	1	150.00	6.03	6.03	-2747.89	2121.92	-656.36	74.63
0.00	20	SLE Q	1	150.00	6.03	6.03	-2708.80	2091.73	-647.02	73.57
2.75	18	SLE R	2	281.08	6.03	6.03	2385.84	-569.88	1842.34	64.79
2.75	20	SLE Q	2	281.08	6.03	6.03	2379.74	-568.42	1837.63	64.63
5.52	18	SLE R	2	3.60	6.03	6.03	-2231.40	1723.09	-532.99	60.60
5.52	20	SLE Q	2	3.60	6.03	6.03	-2281.36	1761.66	-544.92	61.96

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>
19	0.00	20	SLE Q	1	5	150.00	-2708.80	27.00	104.00	0.50	16.00	102.37	6.03	182.36	2091.73	0.80	0.14
20	0.00	19	SLE F	1	5	150.00	-2720.61	27.00	104.00	0.50	16.00	102.37	6.03	182.36	2100.86	0.69	0.12
39	2.75	20	SLE Q	2	5	281.08	2379.74	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1837.63	0.67	0.12
40	2.75	19	SLE F	2	5	281.08	2381.27	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1838.82	0.56	0.10
59	5.52	20	SLE Q	2	5	3.60	-2281.36	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1761.66	0.64	0.11
60	5.52	19	SLE F	2	5	3.60	-2266.77	27.00	104.00	0.50	16.00	102.37	6.03	182.36	1750.40	0.52	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.
17 SLU	0.04	0.32	0.28	ø8/15 2 br.	6.70	0.28	4052.68	2.50	14456.80	20026.50	14456.80	3.567
17 SLU	0.32	5.24	4.93	ø8/15 2 br.	6.70	0.28	4134.53	2.50	14456.80	20026.50	14456.80	3.497
17 SLU	5.24	5.52	0.28	ø8/15 2 br.	6.70	0.28	4606.55	2.50	14456.80	20026.50	14456.80	3.138

Travata n. 301

Nodi: 3001 3002

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.80	17	SLU	1	461.00	6.03	6.03	6.03	6.03	-184.70	-5395.92	29.215
4.61	17	SLU	1	80.00	6.03	6.03	6.03	6.03	-1211.66	-5395.92	4.453

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.80	9	SND	1	461.00	6.03	6.03	6.03	6.03	-1989.39	-5143.73	2.586
4.61	11	SND	1	80.00	6.03	6.03	6.03	6.03	-3221.85	-5143.73	1.597

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>
0.80	18	SLE R	1	461.00	6.03	6.03	-129.47	98.78	-24.01	2.96
0.80	20	SLE Q	1	461.00	6.03	6.03	-136.14	103.87	-25.24	3.12
4.61	18	SLE R	1	80.00	6.03	6.03	-870.89	664.43	-161.49	19.94
4.61	20	SLE Q	1	80.00	6.03	6.03	-862.14	657.75	-159.86	19.74

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>
21	0.80	20	SLE Q	1	3	461.00	-136.14	27.00	164.00	0.50	16.00	126.13	6.03	271.92	103.87	0.03	0.01
23	0.80	19	SLE F	1	3	461.00	-134.42	27.00	164.00	0.50	16.00	126.13	6.03	271.92	102.56	0.03	0.01
45	4.61	20	SLE Q	1	3	80.00	-862.14	27.00	164.00	0.50	16.00	126.13	6.03	271.92	657.75	0.19	0.04
46	4.61	19	SLE F	1	3	80.00	-864.45	27.00	164.00	0.50	16.00	126.13	6.03	271.92	659.51	0.19	0.04

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SND	0.80	1.08	0.28	ø8/15 2 br.	6.70	0.40	1810.32	2.50	14456.80	28609.20	14456.80	7.986
1 SND	1.08	4.33	3.25	ø8/15 2 br.	6.70	0.40	2220.13	2.50	14456.80	28609.20	14456.80	6.512
1 SND	4.33	4.61	0.28	ø8/15 2 br.	6.70	0.40	2413.34	2.50	14456.80	28609.20	14456.80	5.990

Travata n. 302

Nodi: 3012 -19505 -19506 -19507 -19508 3025 -666 3099 3026

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>
14	R	40.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
11	R	40.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	N <daN>	MRdy <daNm>	Nu <daN>	Sic.
1.15	17	SLU	5	0.00	8.04	6.03	8.04	6.03	-361.52	-1732.11	-4652.40	-1732.11	12.869
1.40	17	SLU	6	539.58	8.04	6.03	8.04	6.03	-738.45	0.00	-5797.43	0.00	7.851
3.37	17	SLU	6	333.33	8.04	6.03	8.04	6.03	377.68	0.00	4451.04	0.00	11.785
6.32	17	SLU	6	25.10	20.11	6.03	20.11	6.03	-500.07	0.00	-13230.20	0.00	26.457
6.62	17	SLU	7	9.41	14.07	6.03	14.07	6.03	-648.02	0.00	-9724.55	0.00	15.007
9.97	17	SLU	8	187.73	6.03	6.03	6.03	6.03	389.87	0.00	4451.78	0.00	11.418
11.75	17	SLU	8	-0.00	6.03	6.03	6.03	6.03	-724.94	0.00	-4451.78	0.00	6.141

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	N <daN>	M'ydy <daNm>	Nu <daN>	Sic.
1.15	9	SND	5	0.00	8.04	6.03	8.04	6.03	390.51	26649.90	1368.48	26649.90	3.504
1.40	13	SND	6	539.58	8.04	6.03	8.04	6.03	-1043.40	0.00	-5569.64	0.00	5.338
3.37	1	SND	6	333.33	8.04	6.03	8.04	6.03	480.35	0.00	4237.80	0.00	8.822
6.32	1	SND	6	25.10	20.11	6.03	20.11	6.03	-685.17	0.00	-11892.10	0.00	17.357
6.62	1	SND	7	9.41	14.07	6.03	14.07	6.03	-829.25	0.00	-9381.68	0.00	11.313
9.97	9	SND	8	187.73	6.03	6.03	6.03	6.03	782.49	0.00	4239.60	0.00	5.418
11.75	1	SND	8	-0.00	6.03	6.03	6.03	6.03	-1466.98	0.00	-4239.60	0.00	2.890

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	N <daN>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _c <daN/cmq>
1.15	18	SLE R	5	0.00	8.04	6.03	-271.87	-1325.56	165.04	-104.73	11.82
1.15	20	SLE Q	5	0.00	8.04	6.03	-263.89	-1242.39	162.63	-100.87	11.45
1.40	18	SLE R	6	539.58	8.04	6.03	-557.81	0.00	391.47	-126.76	15.56
1.40	20	SLE Q	6	539.58	8.04	6.03	-543.84	0.00	381.67	-123.59	15.17
3.37	18	SLE R	6	333.33	8.04	6.03	291.02	0.00	-60.72	269.49	8.58
3.37	20	SLE Q	6	333.33	8.04	6.03	293.25	0.00	-61.19	271.55	8.65
6.32	18	SLE R	6	25.10	20.11	6.03	-396.39	0.00	116.36	-85.85	8.50
6.32	20	SLE Q	6	25.10	20.11	6.03	-409.22	0.00	120.12	-88.63	8.77
6.62	18	SLE R	7	9.41	14.07	6.03	-501.71	0.00	206.46	-111.53	11.80
6.62	20	SLE Q	7	9.41	14.07	6.03	-506.81	0.00	208.56	-112.66	11.92
9.97	18	SLE R	8	187.73	6.03	6.03	299.64	0.00	-67.66	277.16	9.24
9.97	20	SLE Q	8	187.73	6.03	6.03	302.85	0.00	-68.38	280.13	9.34
11.75	18	SLE R	8	-0.00	6.03	6.03	-553.89	0.00	512.33	-125.07	17.09
11.75	20	SLE Q	8	-0.00	6.03	6.03	-533.25	0.00	493.24	-120.41	16.45

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	N <daN>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c off} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
20	1.15	20	SLE Q	5	14	0.00	-263.89	-1242.39	27.00	109.33	0.50	16.00	84.57	8.04	153.65	162.63	0.05	0.01
21	1.15	19	SLE F	5	14	0.00	-265.59	-1270.11	27.00	109.33	0.50	16.00	84.48	8.04	153.23	162.59	0.05	0.01
42	1.40	20	SLE Q	6	11	539.58	-543.84	0.00	27.00	109.33	0.50	16.00	97.35	8.04	217.89	381.67	0.11	0.02
43	1.40	19	SLE F	6	11	539.58	-547.35	0.00	27.00	109.33	0.50	16.00	97.35	8.04	217.89	384.13	0.11	0.02
64	3.37	20	SLE Q	6	11	333.33	293.25	0.00	27.00	164.00	0.50	16.00	115.45	6.03	231.65	271.55	0.08	0.02
65	3.37	19	SLE F	6	11	333.33	292.86	0.00	27.00	164.00	0.50	16.00	115.45	6.03	231.65	271.19	0.08	0.02
84	6.32	20	SLE Q	6	11	25.10	-409.22	0.00	27.00	36.44	0.50	16.00	68.09	20.11	177.10	120.12	0.03	0.00
85	6.32	19	SLE F	6	11	25.10	-405.64	0.00	27.00	36.44	0.50	16.00	68.09	20.11	177.10	119.07	0.03	0.00
104	6.62	20	SLE Q	7	11	9.41	-506.81	0.00	27.00	54.67	0.50	16.00	76.04	14.07	193.84	208.56	0.06	0.01
105	6.62	19	SLE F	7	11	9.41	-504.19	0.00	27.00	54.67	0.50	16.00	76.04	14.07	193.84	207.48	0.06	0.01
128	9.97	20	SLE Q	8	11	187.73	302.85	0.00	27.00	164.00	0.50	16.00	114.71	6.03	228.86	280.13	0.08	0.02
129	9.97	19	SLE F	8	11	187.73	301.98	0.00	27.00	164.00	0.50	16.00	114.71	6.03	228.86	279.32	0.08	0.02
148	11.75	20	SLE Q	8	11	-0.00	-533.25	0.00	27.00	164.00	0.50	16.00	114.71	6.03	228.86	493.24	0.14	0.03
149	11.75	19	SLE F	8	11	-0.00	-538.11	0.00	27.00	164.00	0.50	16.00	114.71	6.03	228.86	497.74	0.14	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.
9 SND	0.06	0.93	0.91	ø8/10 2 br.	10.05	0.40	1017.09	2.50	14604.30	19267.40	14604.30	14.359
9 SND	0.93	1.12	0.20	ø8/10 2 br.	10.05	0.40	4050.91	2.50	14604.30	19267.40	14604.30	3.605
17 SLU	1.36	1.59	0.24	ø8/10 2 br.	10.05	0.40	813.85	2.50	18144.70	23938.30	18144.70	22.295
17 SLU	1.59	6.05	4.65	ø8/10 2 br.	10.05	0.40	764.14	2.50	18144.70	23938.30	18144.70	23.745
17 SLU	6.05	6.27	0.24	ø8/10 2 br.	10.05	0.40	696.17	2.50	18144.70	23938.30	18144.70	26.064
9 SND	6.75	6.97	0.24	ø8/10 2 br.	10.05	0.40	815.82	2.50	18144.70	23938.30	18144.70	22.241
1 SND	6.97	11.56	4.84	ø8/10 2 br.	10.05	0.40	834.65	2.50	18144.70	23938.30	18144.70	21.739
1 SND	11.56	11.79	0.24	ø8/10 2 br.	10.05	0.40	870.82	2.50	18144.70	23938.30	18144.70	20.836

Travata n. 304

Nodi: 3033 -606 -21467 -21468 -21469 -21470 -607 3034

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
17R		30.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
0.25	17	SLU	1	91.00	6.03	6.03	6.03	6.03	-592.60	-5291.29	8.929
3.27	17	SLU	7	25.00	6.03	6.03	6.03	6.03	-807.46	-5291.29	6.553

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
0.25	9	SND	1	91.00	6.03	6.03	6.03	6.03	-2996.78	-5083.07	1.696
3.27	1	SND	7	25.00	6.03	6.03	6.03	6.03	-3722.75	-5083.07	1.365

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/cm²>	σ_f inf <daN/cm²>	σ_c <daN/cm²>
0.25	18	SLE R	1	91.00	6.03	6.03	-429.73	331.09	-97.98	11.30
0.25	20	SLE Q	1	91.00	6.03	6.03	-372.85	287.27	-85.02	9.80
3.27	18	SLE R	7	25.00	6.03	6.03	-585.33	450.99	-133.47	15.39
3.27	20	SLE Q	7	25.00	6.03	6.03	-540.21	416.22	-123.18	14.21

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/cm²>	ϵ_{sm}	Wk <mm>
19	0.25	20	SLE Q	1	17	91.00	-372.85	27.00	114.00	0.50	16.00	106.27	6.03	197.04	287.27	0.08	0.02
20	0.25	19	SLE F	1	17	91.00	-386.69	27.00	114.00	0.50	16.00	106.27	6.03	197.04	297.94	0.09	0.02
39	3.27	20	SLE Q	7	17	25.00	-540.21	27.00	114.00	0.50	16.00	106.27	6.03	197.04	416.22	0.12	0.02
40	3.27	19	SLE F	7	17	25.00	-552.11	27.00	114.00	0.50	16.00	106.27	6.03	197.04	425.39	0.12	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SND	0.25	0.53	0.28	ø8/15 2 br.	6.70	0.30	2412.72	2.50	14456.80	21456.90	14456.80	5.992
5 SND	0.53	2.99	2.46	ø8/15 2 br.	6.70	0.30	3286.03	2.50	14456.80	21456.90	14456.80	4.399
5 SND	2.99	3.27	0.28	ø8/15 2 br.	6.70	0.30	3548.47	2.50	14456.80	21456.90	14456.80	4.074

Travata n. 305

Nodi: 3013 -19375 -19376 -19377 -19378 3035 -33714 -33712 -667 3100 -33710 -33709 3042

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
14R		40.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
11R		40.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.15	17	SLU	5	0.00	6.03	6.03	6.03	6.03	304.61	3507.65	11.515
1.40	17	SLU	6	487.30	6.03	6.03	6.03	6.03	-676.85	-4451.78	6.577
3.73	17	SLU	6	243.65	6.03	6.03	6.03	6.03	325.13	4451.78	13.693
6.06	17	SLU	6	0.00	18.10	6.03	18.10	6.03	-507.29	-12168.00	23.986
7.16	17	SLU	12	484.41	18.10	6.03	18.10	6.03	-434.88	-12168.00	27.980
9.97	17	SLU	12	188.36	6.03	6.03	6.03	6.03	266.33	4451.78	16.715
11.75	17	SLU	12	-0.00	6.03	6.03	6.03	6.03	-747.42	-4451.78	5.956

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
1.15	9	SND	5	0.00	6.03	6.03	6.03	6.03	606.51	3340.48	5.508
1.40	9	SND	6	487.30	6.03	6.03	6.03	6.03	-533.07	-4239.60	7.953
3.73	1	SND	6	243.65	6.03	6.03	6.03	6.03	302.87	4239.60	13.998
6.06	9	SND	6	0.00	18.10	6.03	18.10	6.03	-456.64	-11606.70	25.418
7.16	9	SND	12	484.41	18.10	6.03	18.10	6.03	-524.72	-11606.70	22.120
9.97	9	SND	12	188.36	6.03	6.03	6.03	6.03	598.76	4239.60	7.081
11.75	1	SND	12	-0.00	6.03	6.03	6.03	6.03	-1280.26	-4239.60	3.312

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/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
1.15	18	SLE R	5	0.00	6.03	6.03	217.05	-60.87	254.50	9.72
1.15	20	SLE Q	5	0.00	6.03	6.03	189.94	-53.26	222.71	8.50
1.40	18	SLE R	6	487.30	6.03	6.03	-515.44	476.77	-116.39	15.90
1.40	20	SLE Q	6	487.30	6.03	6.03	-499.41	461.94	-112.77	15.41
3.73	18	SLE R	6	243.65	6.03	6.03	251.58	-56.81	232.71	7.76
3.73	20	SLE Q	6	243.65	6.03	6.03	254.78	-57.53	235.66	7.86
6.06	18	SLE R	6	0.00	18.10	6.03	-392.40	127.25	-85.68	8.63
6.06	20	SLE Q	6	0.00	18.10	6.03	-401.59	130.23	-87.69	8.84
7.16	18	SLE R	12	484.41	18.10	6.03	-338.51	109.78	-73.92	7.45
7.16	20	SLE Q	12	484.41	18.10	6.03	-348.98	113.17	-76.20	7.68
9.97	18	SLE R	12	188.36	6.03	6.03	207.95	-46.95	192.35	6.41
9.97	20	SLE Q	12	188.36	6.03	6.03	214.82	-48.51	198.70	6.63
11.75	18	SLE R	12	-0.00	6.03	6.03	-566.88	524.36	-128.00	17.49
11.75	20	SLE Q	12	-0.00	6.03	6.03	-547.69	506.60	-123.67	16.90

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/cm²>	ε _{sm}	Wk <mm>
19	1.15	20	SLE Q	5	14	0.00	189.94	27.00	164.00	0.50	16.00	103.48	6.03	186.55	222.71	0.06	0.01
20	1.15	19	SLE F	5	14	0.00	196.63	27.00	164.00	0.50	16.00	103.48	6.03	186.55	230.56	0.07	0.01
39	1.40	20	SLE Q	6	11	487.30	-499.41	27.00	164.00	0.50	16.00	114.71	6.03	228.86	461.94	0.13	0.03
40	1.40	19	SLE F	6	11	487.30	-503.30	27.00	164.00	0.50	16.00	114.71	6.03	228.86	465.54	0.14	0.03
59	3.73	20	SLE Q	6	11	243.65	254.78	27.00	164.00	0.50	16.00	114.71	6.03	228.86	235.66	0.07	0.01
60	3.73	19	SLE F	6	11	243.65	254.04	27.00	164.00	0.50	16.00	114.71	6.03	228.86	234.98	0.07	0.01
79	6.06	20	SLE Q	6	11	0.00	-401.59	27.00	41.00	0.50	16.00	70.10	18.10	182.12	130.23	0.04	0.00
80	6.06	19	SLE F	6	11	0.00	-399.28	27.00	41.00	0.50	16.00	70.10	18.10	182.12	129.48	0.04	0.00
99	7.16	20	SLE Q	12	11	484.41	-348.98	27.00	41.00	0.50	16.00	70.10	18.10	182.12	113.17	0.03	0.00
100	7.16	19	SLE F	12	11	484.41	-346.13	27.00	41.00	0.50	16.00	70.10	18.10	182.12	112.24	0.03	0.00
123	9.97	20	SLE Q	12	11	188.36	214.82	27.00	164.00	0.50	16.00	114.71	6.03	228.86	198.70	0.06	0.01
124	9.97	19	SLE F	12	11	188.36	213.15	27.00	164.00	0.50	16.00	114.71	6.03	228.86	197.16	0.06	0.01
143	11.75	20	SLE Q	12	11	-0.00	-547.69	27.00	164.00	0.50	16.00	114.71	6.03	228.86	506.60	0.15	0.03
144	11.75	19	SLE F	12	11	-0.00	-552.59	27.00	164.00	0.50	16.00	114.71	6.03	228.86	511.14	0.15	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.
9 SND	0.06	0.93	0.91	ø8/10 2 br.	10.05	0.40	409.01	2.50	14604.30	19267.40	14604.30	35.706
9 SND	0.93	1.12	0.20	ø8/10 2 br.	10.05	0.40	1457.95	2.50	14604.30	19267.40	14604.30	10.017
17 SLU	1.36	1.59	0.24	ø8/10 2 br.	10.05	0.40	761.75	2.50	18144.70	23938.30	18144.70	23.820
17 SLU	1.59	5.80	4.39	ø8/10 2 br.	10.05	0.40	712.04	2.50	18144.70	23938.30	18144.70	25.483
17 SLU	5.80	6.02	0.24	ø8/10 2 br.	10.05	0.40	670.27	2.50	18144.70	23938.30	18144.70	27.071
9 SND	7.20	7.43	0.24	ø8/10 2 br.	10.05	0.40	678.86	2.50	18144.70	23938.30	18144.70	26.728
1 SND	7.43	11.48	4.28	ø8/10 2 br.	10.05	0.40	724.74	2.50	18144.70	23938.30	18144.70	25.036
17 SLU	11.48	11.71	0.24	ø8/10 2 br.	10.05	0.40	780.56	2.50	18144.70	23938.30	18144.70	23.246

Travata n. 306

Nodi: 3045 3046 -32164 -32163 -32162 -32161 -32160 -32159 3047 3007 -613 -37688

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
3	R	40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
2.00	17	SLU	9	381.00	8.04	6.03	8.04	6.03	-1092.42	-7056.24	6.459
5.31	17	SLU	9	50.00	8.04	6.03	8.04	6.03	542.11	5395.16	9.952
5.81	17	SLU	10	368.00	8.04	6.03	8.04	6.03	-528.09	-7056.24	13.362
10.61	17	SLU	11	25.00	8.04	6.03	8.04	6.03	-740.35	-7056.24	9.531

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
2.00	1	SND	9	381.00	8.04	6.03	8.04	6.03	3898.91	5144.72	1.320
5.31	9	SND	9	50.00	8.04	6.03	8.04	6.03	4742.16	5144.72	1.085
5.81	9	SND	10	368.00	8.04	6.03	8.04	6.03	-2820.94	-6766.82	2.399
10.61	1	SND	11	25.00	8.04	6.03	8.04	6.03	-3140.91	-6766.82	2.154

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/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
2.00	18	SLE R	9	381.00	8.04	6.03	-788.35	456.07	-144.75	16.33
2.00	20	SLE Q	9	381.00	8.04	6.03	-730.76	422.76	-134.18	15.13

5.31	18	SLE R	9	50.00	8.04	6.03	368.54	-63.39	281.15	8.05
5.31	20	SLE Q	9	50.00	8.04	6.03	316.32	-54.41	241.32	6.91
5.81	18	SLE R	10	368.00	8.04	6.03	-433.58	250.84	-79.61	8.98
5.81	20	SLE Q	10	368.00	8.04	6.03	-488.28	282.48	-89.66	10.11
10.61	18	SLE R	11	25.00	8.04	6.03	-540.71	312.81	-99.28	11.20
10.61	20	SLE Q	11	25.00	8.04	6.03	-494.69	286.18	-90.83	10.24

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 off} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
19	2.00	20	SLE Q	9	3	381.00	-730.76	27.00	109.33	0.50	16.00	105.57	8.04	259.21	422.76	0.12	0.02
20	2.00	19	SLE F	9	3	381.00	-746.99	27.00	109.33	0.50	16.00	105.57	8.04	259.21	432.14	0.13	0.02
39	5.31	20	SLE Q	9	3	50.00	316.32	27.00	164.00	0.50	16.00	126.99	6.03	275.15	241.32	0.07	0.02
40	5.31	19	SLE F	9	3	50.00	331.47	27.00	164.00	0.50	16.00	126.99	6.03	275.15	252.88	0.07	0.02
59	5.81	20	SLE Q	10	3	368.00	-488.28	27.00	109.33	0.50	16.00	105.57	8.04	259.21	282.48	0.08	0.01
60	5.81	19	SLE F	10	3	368.00	-474.71	27.00	109.33	0.50	16.00	105.57	8.04	259.21	274.63	0.08	0.01
79	10.61	20	SLE Q	11	3	25.00	-494.69	27.00	109.33	0.50	16.00	105.57	8.04	259.21	286.18	0.08	0.01
80	10.61	19	SLE F	11	3	25.00	-506.30	27.00	109.33	0.50	16.00	105.57	8.04	259.21	292.90	0.09	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.
9 SND	2.00	2.28	0.28	ø8/15 2 br.	6.70	0.40	3278.17	2.50	14456.80	28609.20	14456.80	4.410
9 SND	2.28	5.03	2.75	ø8/15 2 br.	6.70	0.40	3199.77	2.50	14456.80	28609.20	14456.80	4.518
1 SND	5.03	5.31	0.28	ø8/15 2 br.	6.70	0.40	2684.15	2.50	14456.80	28609.20	14456.80	5.386
9 SND	5.81	6.09	0.28	ø8/15 2 br.	6.70	0.40	1707.81	2.50	14456.80	28609.20	14456.80	8.465
1 SND	6.09	10.33	4.24	ø8/15 2 br.	6.70	0.40	1632.08	2.50	14456.80	28609.20	14456.80	8.858
1 SND	10.33	10.61	0.28	ø8/15 2 br.	6.70	0.40	1710.48	2.50	14456.80	28609.20	14456.80	8.452

Travata n. 307

Nodi: 3048 3049 3050

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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	17	SLU	1	175.00	9.42	9.42	9.42	9.42	63.13	8192.95	>100
3.27	17	SLU	2	25.00	9.42	9.42	9.42	9.42	-236.85	-8192.95	34.592

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.20	5	SND	1	175.00	9.42	9.42	9.42	9.42	1430.09	7893.54	5.520
3.27	5	SND	2	25.00	9.42	9.42	9.42	9.42	7064.54	7893.54	1.117

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	18	SLE R	1	175.00	9.42	9.42	46.09	-7.47	22.84	0.83
0.20	20	SLE Q	1	175.00	9.42	9.42	41.90	-6.79	20.77	0.76
3.27	18	SLE R	2	25.00	9.42	9.42	-192.57	95.44	-31.22	3.49
3.27	20	SLE Q	2	25.00	9.42	9.42	-222.95	110.49	-36.14	4.04

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 off} <cmq>	σ _s <daN/cmq>	ε _{sm}	Wk <mm>
22	0.20	20	SLE Q	1	3	175.00	41.90	25.00	162.00	0.50	20.00	104.68	9.42	257.66	20.77	0.01	0.00
24	0.20	19	SLE F	1	3	175.00	42.84	25.00	162.00	0.50	20.00	104.68	9.42	257.66	21.23	0.01	0.00
43	3.27	20	SLE Q	2	3	25.00	-222.95	25.00	162.00	0.50	20.00	104.68	9.42	257.66	110.49	0.03	0.01
44	3.27	19	SLE F	2	3	25.00	-215.99	25.00	162.00	0.50	20.00	104.68	9.42	257.66	107.05	0.03	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.
13 SND	0.20	0.48	0.28	ø8/15 2 br.	6.70	0.40	2792.31	2.50	14456.80	28609.20	14456.80	5.177
13 SND	0.48	2.99	2.51	ø8/15 2 br.	6.70	0.40	8873.40	2.50	14456.80	28609.20	14456.80	1.629
13 SND	2.99	3.27	0.28	ø8/15 2 br.	6.70	0.40	8951.80	2.50	14456.80	28609.20	14456.80	1.615

Travata n. 308

Nodi: -37671 3009 -614 -37689

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
5.06	17	SLU	1	50.00	6.03	6.03	6.03	6.03	-665.82	-5395.92	8.104
5.56	17	SLU	2	368.00	6.03	6.03	6.03	6.03	-639.15	-5395.92	8.442
10.36	17	SLU	3	112.14	6.03	6.03	6.03	6.03	-654.26	-5395.92	8.247

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
5.06	1	SND	1	50.00	6.03	6.03	6.03	6.03	-2468.16	-5143.73	2.084
5.56	9	SND	2	368.00	6.03	6.03	6.03	6.03	-2842.92	-5143.73	1.809
10.36	1	SND	3	112.14	6.03	6.03	6.03	6.03	-2947.94	-5143.73	1.745

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>
5.06	18	SLE R	1	50.00	6.03	6.03	-520.59	397.18	-96.53	11.92
5.06	20	SLE Q	1	50.00	6.03	6.03	-539.58	411.66	-100.05	12.36
5.56	18	SLE R	2	368.00	6.03	6.03	-511.70	390.39	-94.88	11.72
5.56	20	SLE Q	2	368.00	6.03	6.03	-559.68	427.00	-103.78	12.82
10.36	18	SLE R	3	112.14	6.03	6.03	-483.09	368.56	-89.58	11.06
10.36	20	SLE Q	3	112.14	6.03	6.03	-442.06	337.26	-81.97	10.12

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>
19	5.06	20	SLE Q	1	3	50.00	-539.58	27.00	164.00	0.50	16.00	126.13	6.03	271.92	411.66	0.12	0.03
20	5.06	19	SLE F	1	3	50.00	-533.78	27.00	164.00	0.50	16.00	126.13	6.03	271.92	407.23	0.12	0.03
39	5.56	20	SLE Q	2	3	368.00	-559.68	27.00	164.00	0.50	16.00	126.13	6.03	271.92	427.00	0.12	0.03
40	5.56	19	SLE F	2	3	368.00	-547.87	27.00	164.00	0.50	16.00	126.13	6.03	271.92	417.98	0.12	0.03
59	10.36	20	SLE Q	3	3	112.14	-442.06	27.00	164.00	0.50	16.00	126.13	6.03	271.92	337.26	0.10	0.02
60	10.36	19	SLE F	3	3	112.14	-452.39	27.00	164.00	0.50	16.00	126.13	6.03	271.92	345.14	0.10	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
9 SND	0.04	4.78	4.74	ø8/15 2 br.	6.70	0.40	1444.50	2.50	14456.80	28609.20	14456.80	10.008
1 SND	4.78	5.06	0.28	ø8/15 2 br.	6.70	0.40	1444.55	2.50	14456.80	28609.20	14456.80	10.008
9 SND	5.56	5.84	0.28	ø8/15 2 br.	6.70	0.40	1694.09	2.50	14456.80	28609.20	14456.80	8.534
9 SND	5.84	10.08	4.24	ø8/15 2 br.	6.70	0.40	1615.69	2.50	14456.80	28609.20	14456.80	8.948
1 SND	10.08	10.36	0.28	ø8/15 2 br.	6.70	0.40	1645.10	2.50	14456.80	28609.20	14456.80	8.788

Travata n. 309

Nodi: 3014 -19278 -19279 -19280 -19281 3073 3101 -661 3074

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>
14R		40.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
11R		40.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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>	N <daN>	MRdy <daNm>	Nu <daN>	Sic.
6.91	17	SLU	7	26.38	12.06	6.03	12.06	6.03	-1133.86	0.00	-8442.06	0.00	7.445
7.41	17	SLU	8	458.02	18.10	6.03	18.10	6.03	-398.88	-12431.20	-12752.60	-275020.00	22.123
11.09	17	SLU	8	69.92	6.03	6.03	6.03	6.03	-310.04	-12818.20	-5547.69	-227814.00	17.773
11.75	17	SLU	8	-0.00	6.03	6.03	6.03	6.03	-617.19	-12887.90	-5553.63	-12887.90	8.998

Stato limite elastico - 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>	N <daN>	M'ydy <daNm>	Nu <daN>	Sic.
6.91	9	SND	7	26.38	12.06	6.03	12.06	6.03	-1531.03	0.00	-8140.77	0.00	5.317
7.41	13	SND	8	458.02	18.10	6.03	18.10	6.03	406.14	15550.60	2823.70	15550.60	6.953
11.09	1	SND	8	69.92	6.03	6.03	6.03	6.03	882.28	16467.60	2749.10	16467.60	3.116
11.75	1	SND	8	-0.00	6.03	6.03	6.03	6.03	865.93	16413.90	2753.98	16413.90	3.180

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	N <daN>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
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Relazione di calcolo

6.91	18	SLE R	7	26.38	12.06	6.03	-857.02	0.00	408.35	-192.26	21.06
6.91	20	SLE Q	7	26.38	12.06	6.03	-800.20	0.00	381.27	-179.51	19.66
7.41	18	SLE R	8	458.02	18.10	6.03	-314.03	-8926.95	-36.01	-187.29	14.56
7.41	20	SLE Q	8	458.02	18.10	6.03	-326.63	-7456.49	-19.48	-169.88	13.39
11.09	18	SLE R	8	69.92	6.03	6.03	-232.03	-9224.65	-71.26	-171.29	12.79
11.09	20	SLE Q	8	69.92	6.03	6.03	-218.40	-7754.18	-54.87	-149.02	11.23
11.75	18	SLE R	8	-0.00	6.03	6.03	-466.75	-9278.29	-19.20	-223.24	17.68
11.75	20	SLE Q	8	-0.00	6.03	6.03	-450.12	-7807.82	2.31	-201.86	16.26

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	N	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<daN>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
19	6.91	20	SLE Q	7	11	26.38	-800.20	0.00	27.00	65.60	0.50	16.00	80.63	12.06	200.78	381.27	0.11	0.02
20	6.91	19	SLE F	7	11	26.38	-810.27	0.00	27.00	65.60	0.50	16.00	80.63	12.06	200.78	386.08	0.11	0.02

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>	
5 SND	0.06	0.99	0.97	ø8/10 2 br.	10.05	0.40	1636.64	2.50	14604.30	19267.40	14604.30	8.923
5 SND	0.99	1.18	0.20	ø8/10 2 br.	10.05	0.40	1636.64	2.50	14604.30	19267.40	14604.30	8.923
17 SLU	1.19	6.44	5.50	ø8/10 2 br.	10.05	0.40	929.36	2.50	18144.70	23938.30	18144.70	19.524
17 SLU	6.44	6.67	0.24	ø8/10 2 br.	10.05	0.40	782.34	2.50	18144.70	23938.30	18144.70	23.193
9 SND	6.74	6.95	0.21	ø8/10 2 br.	10.05	0.40	6703.54	2.50	18144.70	23938.30	18144.70	2.707
1 SND	7.45	7.68	0.24	ø8/10 2 br.	10.05	0.40	888.84	2.50	18144.70	27924.80	18144.70	20.414
9 SND	7.68	11.56	4.10	ø8/10 2 br.	10.05	0.40	925.01	2.50	18144.70	28182.00	18144.70	19.616
9 SND	11.56	11.79	0.24	ø8/10 2 br.	10.05	0.40	961.18	2.50	18144.70	28183.60	18144.70	18.878

Travata n. 311

Nodi: 3015 -19212 -19213 -19214 -19215 3083 -19084 -19085 -19086 -19087 -19088 -19089 -19090 -19091 -19092 -19093 -19094 -19095 -19096 -19097 -19098 -19099 -19100 -19101 -19102 -19103 -658 -12595 -668 3102 -12616 -662 -19901 -19902 -19903 -19904 -19905 -19906 -19907 -19908 -19909 -19910 -19911 -19912 -19913 -19914 -19915 -19916 -19917 -19918 -19919 3087

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
15R		70.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
12R		70.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.15	17	SLU	5	-0.00	10.05	10.05	10.05	10.05	-218.76	-5879.10	26.874
1.40	17	SLU	7	22.76	10.05	10.05	10.05	10.05	34.54	7452.64	>100
6.06	17	SLU	26	0.00	30.16	10.05	30.16	10.05	-332.67	-20375.40	61.249
7.16	17	SLU	32	24.22	30.16	10.05	30.16	10.05	-439.16	-20375.40	46.396

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.15	1	SND	5	-0.00	10.05	10.05	10.05	10.05	-1616.54	-5584.45	3.455
1.40	9	SND	7	22.76	10.05	10.05	10.05	10.05	656.58	7083.11	10.788
6.06	5	SND	26	0.00	30.16	10.05	30.16	10.05	240.01	7048.47	29.368
7.16	1	SND	32	24.22	30.16	10.05	30.16	10.05	-539.61	-19693.20	36.495

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	σ _ε sup	σ _ε inf	σ _c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.15	18	SLE R	5	-0.00	10.05	10.05	-165.50	116.14	-26.64	4.34
1.15	20	SLE Q	5	-0.00	10.05	10.05	-159.16	111.69	-25.62	4.17
1.40	18	SLE R	7	22.76	10.05	10.05	24.13	-3.14	13.36	0.44
1.40	20	SLE Q	7	22.76	10.05	10.05	22.86	-2.98	12.66	0.41
6.06	18	SLE R	26	0.00	30.16	10.05	-248.55	48.26	-31.44	3.19
6.06	20	SLE Q	26	0.00	30.16	10.05	-225.04	43.69	-28.46	2.89
7.16	18	SLE R	32	24.22	30.16	10.05	-326.91	63.48	-41.35	4.20
7.16	20	SLE Q	32	24.22	30.16	10.05	-304.09	59.04	-38.46	3.90

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
19	1.15	20	SLE Q	5	15	-0.00	-159.16	27.00	156.00	0.50	16.00	106.27	10.05	328.41	111.69	0.03	0.01
20	1.15	19	SLE F	5	15	-0.00	-159.76	27.00	156.00	0.50	16.00	106.27	10.05	328.41	112.11	0.03	0.01
42	1.40	20	SLE Q	7	12	22.76	22.86	27.00	156.00	0.50	16.00	118.11	10.05	402.84	12.66	0.00	0.00
44	1.40	19	SLE F	7	12	22.76	23.57	27.00	156.00	0.50	16.00	118.11	10.05	402.84	13.05	0.00	0.00
65	6.06	20	SLE Q	26	12	0.00	-225.04	27.00	44.57	0.50	16.00	71.08	30.16	321.86	43.69	0.01	0.00
66	6.06	19	SLE F	26	12	0.00	-230.69	27.00	44.57	0.50	16.00	71.08	30.16	321.86	44.79	0.01	0.00

Relazione di calcolo

85	7.16	20	SLE Q	32	12	24.22	-304.09	27.00	44.57	0.50	16.00	71.08	30.16	321.86	59.04	0.02	0.00
86	7.16	19	SLE F	32	12	24.22	-308.83	27.00	44.57	0.50	16.00	71.08	30.16	321.86	59.97	0.02	0.00

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 SND	0.06	0.93	0.91	ø10/10 2 br.	15.71	0.70	1607.39	2.50	22819.20	33718.00	22819.20	14.197
1 SND	0.93	1.12	0.20	ø10/10 2 br.	15.71	0.70	6115.77	2.50	22819.20	33718.00	22819.20	3.731
9 SND	1.36	1.59	0.24	ø10/10 2 br.	15.71	0.70	7713.27	2.50	28351.20	41892.10	28351.20	3.676
1 SND	1.59	5.80	4.39	ø10/10 2 br.	15.71	0.70	1915.92	2.50	28351.20	41892.10	28351.20	14.798
13 SND	5.80	6.02	0.24	ø10/10 2 br.	15.71	0.70	2187.86	2.50	28351.20	41892.10	28351.20	12.958
1 SND	7.20	7.43	0.24	ø10/10 2 br.	15.71	0.70	1874.83	2.50	28351.20	41892.10	28351.20	15.122
9 SND	7.43	11.68	4.49	ø10/10 2 br.	15.71	0.70	6423.62	2.50	28351.20	41892.10	28351.20	4.414

Travata n. 312

Nodi: 3016 -19579 -19580 -19581 -19582 3001 -19546 -19547 -19548 -19549 -19550 3025 -13330 -13329 -13328 -13327 -13326 -13325 -13324 3029 -19448 -19449 -19450 -19451 -19452 -19453 -19454 -19455 -19456 -19457 3035 -19379 -19380 -19381 -19382 -19383 -19384 -19385 -19386 -19387 -19388 -19389 3054 3058 3063 -13003 -13002 3068 -19337 3073 -19282 -19283 -19284 -19285 -19286 -19287 -19288 -19289 -19290 -19291 3081 -12781 -12780 -12779 3083 -19083 -19082 -19081 -19080 3096

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>
16R	R	80.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
8R	R	80.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.15	17	SLU	5	23.00	18.85	15.71	18.85	15.71	-308.62	-10483.90	33.970
1.40	17	SLU	7	0.00	18.85	18.85	18.85	18.85	300.34	16385.90	54.557
2.40	17	SLU	11	0.00	18.85	18.85	18.85	18.85	198.61	16385.90	82.504
2.65	17	SLU	11	25.00	18.85	18.85	18.85	18.85	198.61	16385.90	82.504
4.15	17	SLU	18	0.00	18.85	18.85	18.85	18.85	342.30	16385.90	47.870
6.05	17	SLU	26	0.00	18.85	18.85	18.85	18.85	-1093.94	-16385.90	14.979
6.18	17	SLU	26	12.82	18.85	18.85	18.85	18.85	-1093.94	-16385.90	14.979
8.17	17	SLU	36	0.00	18.85	18.85	18.85	18.85	-482.25	-16385.90	33.978
9.67	17	SLU	41	0.00	34.56	34.56	34.56	34.56	-367.83	-29260.20	79.548
9.87	17	SLU	41	19.50	34.56	34.56	34.56	34.56	-367.83	-29260.20	79.548
11.16	17	SLU	48	0.00	34.56	34.56	34.56	34.56	-1368.35	-29260.20	21.384
14.21	17	SLU	60	23.18	15.71	15.71	15.71	15.71	-983.80	-13799.50	14.027
15.21	17	SLU	65	0.00	15.71	31.42	15.71	31.42	-124.45	-8876.64	71.325

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
1.15	9	SND	5	23.00	18.85	15.71	18.85	15.71	-881.60	-10155.90	11.520
1.40	9	SND	7	0.00	18.85	18.85	18.85	18.85	3686.12	15787.10	4.283
2.40	1	SND	11	0.00	18.85	18.85	18.85	18.85	9821.14	15787.10	1.607
2.65	1	SND	11	25.00	18.85	18.85	18.85	18.85	9821.14	15787.10	1.607
4.15	9	SND	18	0.00	18.85	18.85	18.85	18.85	15296.00	15787.10	1.032
6.05	9	SND	26	0.00	18.85	18.85	18.85	18.85	-15684.90	-15787.10	1.007
6.18	9	SND	26	12.82	18.85	18.85	18.85	18.85	-15684.90	-15787.10	1.007
8.17	9	SND	36	0.00	18.85	18.85	18.85	18.85	14664.90	15787.10	1.077
9.67	1	SND	41	0.00	34.56	34.56	34.56	34.56	15001.60	28369.20	1.891
9.87	1	SND	41	19.50	34.56	34.56	34.56	34.56	15001.60	28369.20	1.891
11.16	1	SND	48	0.00	34.56	34.56	34.56	34.56	-10770.00	-28369.20	2.634
14.21	9	SND	60	23.18	15.71	15.71	15.71	15.71	-9539.71	-13250.10	1.389
15.21	1	SND	65	0.00	15.71	31.42	15.71	31.42	-2035.53	-8530.19	4.191

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
1.15	18	SLE R	5	23.00	18.85	15.71	-234.80	89.99	-31.98	4.32
1.15	20	SLE Q	5	23.00	18.85	15.71	-188.59	72.28	-25.68	3.47
1.40	18	SLE R	7	0.00	18.85	18.85	219.72	-17.81	54.45	1.99
1.40	20	SLE Q	7	0.00	18.85	18.85	215.54	-17.47	53.41	1.95
2.40	18	SLE R	11	0.00	18.85	18.85	154.32	-12.51	38.24	1.40
2.40	20	SLE Q	11	0.00	18.85	18.85	-147.87	36.64	-11.98	1.34
2.65	18	SLE R	11	25.00	18.85	18.85	154.32	-12.51	38.24	1.40
2.65	20	SLE Q	11	25.00	18.85	18.85	-147.87	36.64	-11.98	1.34
4.15	18	SLE R	18	0.00	18.85	18.85	248.86	-20.17	61.67	2.25
4.15	20	SLE Q	18	0.00	18.85	18.85	229.78	-18.62	56.94	2.08
6.05	18	SLE R	26	0.00	18.85	18.85	-803.45	199.09	-65.12	7.28
6.05	20	SLE Q	26	0.00	18.85	18.85	-726.34	179.99	-58.87	6.58
6.18	18	SLE R	26	12.82	18.85	18.85	-803.45	199.09	-65.12	7.28

Relazione di calcolo

6.18	20	SLE Q	26	12.82	18.85	18.85	-726.34	179.99	-58.87	6.58
8.17	18	SLE R	36	0.00	18.85	18.85	-353.19	87.52	-28.63	3.20
8.17	20	SLE Q	36	0.00	18.85	18.85	-309.99	76.82	-25.12	2.81
9.67	18	SLE R	41	0.00	34.56	34.56	-282.48	38.78	-17.70	1.81
9.67	20	SLE Q	41	0.00	34.56	34.56	-248.91	34.18	-15.59	1.59
9.87	18	SLE R	41	19.50	34.56	34.56	-282.48	38.78	-17.70	1.81
9.87	20	SLE Q	41	19.50	34.56	34.56	-248.91	34.18	-15.59	1.59
11.16	18	SLE R	48	0.00	34.56	34.56	-1012.56	139.02	-63.44	6.48
11.16	20	SLE Q	48	0.00	34.56	34.56	-932.68	128.06	-58.43	5.97
14.21	18	SLE R	60	23.18	15.71	15.71	-747.36	220.94	-64.38	7.46
14.21	20	SLE Q	60	23.18	15.71	15.71	-620.82	183.53	-53.48	6.20
15.21	18	SLE R	65	0.00	15.71	31.42	-97.08	44.62	-9.99	1.65
15.21	20	SLE Q	65	0.00	15.71	31.42	-90.01	41.37	-9.26	1.53

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>
19	1.15	20	SLE Q	5	16	23.00	-188.59	25.00	144.00	0.50	20.00	87.04	18.85	349.11	72.28	0.02	0.00
20	1.15	19	SLE F	5	16	23.00	-198.77	25.00	144.00	0.50	20.00	87.04	18.85	349.11	76.18	0.02	0.00
41	1.40	20	SLE Q	7	8	0.00	215.54	25.00	144.00	0.50	20.00	104.68	18.85	515.31	53.41	0.02	0.00
42	1.40	19	SLE F	7	8	0.00	214.67	25.00	144.00	0.50	20.00	104.68	18.85	515.31	53.19	0.02	0.00
63	2.40	20	SLE Q	11	8	0.00	-147.87	25.00	144.00	0.50	20.00	104.68	18.85	515.31	36.64	0.01	0.00
65	2.40	19	SLE F	11	8	0.00	-141.24	25.00	144.00	0.50	20.00	104.68	18.85	515.31	35.00	0.01	0.00
87	2.65	20	SLE Q	11	8	25.00	-147.87	25.00	144.00	0.50	20.00	104.68	18.85	515.31	36.64	0.01	0.00
89	2.65	19	SLE F	11	8	25.00	-141.24	25.00	144.00	0.50	20.00	104.68	18.85	515.31	35.00	0.01	0.00
111	4.15	20	SLE Q	18	8	0.00	229.78	25.00	144.00	0.50	20.00	104.68	18.85	515.31	56.94	0.02	0.00
113	4.15	19	SLE F	18	8	0.00	233.58	25.00	144.00	0.50	20.00	104.68	18.85	515.31	57.88	0.02	0.00
133	6.05	20	SLE Q	26	8	0.00	-726.34	25.00	144.00	0.50	20.00	104.68	18.85	515.31	179.99	0.05	0.01
134	6.05	19	SLE F	26	8	0.00	-741.79	25.00	144.00	0.50	20.00	104.68	18.85	515.31	183.81	0.05	0.01
153	6.18	20	SLE Q	26	8	12.82	-726.34	25.00	144.00	0.50	20.00	104.68	18.85	515.31	179.99	0.05	0.01
154	6.18	19	SLE F	26	8	12.82	-741.79	25.00	144.00	0.50	20.00	104.68	18.85	515.31	183.81	0.05	0.01
176	8.17	20	SLE Q	36	8	0.00	-309.99	25.00	144.00	0.50	20.00	104.68	18.85	515.31	76.82	0.02	0.00
178	8.17	19	SLE F	36	8	0.00	-318.90	25.00	144.00	0.50	20.00	104.68	18.85	515.31	79.02	0.02	0.00
199	9.67	20	SLE Q	41	8	0.00	-248.91	25.00	72.00	0.50	20.00	77.66	34.56	477.87	34.18	0.01	0.00
201	9.67	19	SLE F	41	8	0.00	-255.06	25.00	72.00	0.50	20.00	77.66	34.56	477.87	35.02	0.01	0.00
223	9.87	20	SLE Q	41	8	19.50	-248.91	25.00	72.00	0.50	20.00	77.66	34.56	477.87	34.18	0.01	0.00
225	9.87	19	SLE F	41	8	19.50	-255.06	25.00	72.00	0.50	20.00	77.66	34.56	477.87	35.02	0.01	0.00
248	11.16	20	SLE Q	48	8	0.00	-932.68	25.00	72.00	0.50	20.00	77.66	34.56	477.87	128.06	0.04	0.00
250	11.16	19	SLE F	48	8	0.00	-947.16	25.00	72.00	0.50	20.00	77.66	34.56	477.87	130.04	0.04	0.01
269	14.21	20	SLE Q	60	8	23.18	-620.82	25.00	180.00	0.50	20.00	148.21	15.71	526.97	183.53	0.05	0.01
270	14.21	19	SLE F	60	8	23.18	-649.16	25.00	180.00	0.50	20.00	148.21	15.71	526.97	191.91	0.06	0.01
289	15.21	20	SLE Q	65	16	0.00	-90.01	25.00	180.00	0.50	20.00	105.91	15.71	376.58	41.37	0.01	0.00
290	15.21	19	SLE F	65	16	0.00	-90.73	25.00	180.00	0.50	20.00	105.91	15.71	376.58	41.70	0.01	0.00

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 SND	0.04	0.95	0.91	ø10/12 2 br.	13.09	0.80	1889.32	2.50	19016.00	38534.90	19016.00	10.065
9 SND	0.95	1.15	0.20	ø10/12 2 br.	13.09	0.80	1969.32	2.50	19016.00	38534.90	19016.00	9.656
1 SND	1.40	1.68	0.28	ø10/12 2 br.	13.09	0.80	8133.39	2.50	28235.90	57218.50	28235.90	3.472
9 SND	1.68	2.37	0.69	ø10/12 2 br.	13.09	0.80	11407.90	2.50	28235.90	57218.50	28235.90	2.475
9 SND	2.37	2.65	0.28	ø10/12 2 br.	13.09	0.80	17565.80	2.50	28235.90	57218.50	28235.90	1.607
1 SND	4.15	4.43	0.28	ø10/12 2 br.	13.09	0.80	25846.20	2.50	28235.90	57218.50	28235.90	1.092
9 SND	4.43	5.90	1.47	ø10/12 2 br.	13.09	0.80	22243.30	2.50	28235.90	57218.50	28235.90	1.269
9 SND	5.90	6.18	0.28	ø10/ 8 2 br.	19.64	0.80	32776.10	2.50	42353.90	57218.50	42353.90	1.292
1 SND	8.17	8.45	0.28	ø10/12 2 br.	13.09	0.80	21489.20	2.50	28235.90	57218.50	28235.90	1.314
1 SND	8.45	9.59	1.13	ø10/12 2 br.	13.09	0.80	20769.50	2.50	28235.90	57218.50	28235.90	1.359
9 SND	9.59	9.87	0.28	ø10/12 2 br.	13.09	0.80	28190.40	2.50	28235.90	57218.50	28235.90	1.002
1 SND	11.16	11.44	0.28	ø10/12 2 br.	13.09	0.80	23418.10	2.50	28235.90	57218.50	28235.90	1.206
1 SND	11.44	13.93	2.49	ø10/12 2 br.	13.09	0.80	15843.20	2.50	28235.90	57218.50	28235.90	1.782
9 SND	13.93	14.21	0.28	ø10/12 2 br.	13.09	0.80	18337.40	2.50	28235.90	57218.50	28235.90	1.540
1 SND	15.21	15.41	0.20	ø10/12 2 br.	13.09	0.80	5438.20	2.50	19016.00	38534.90	19016.00	3.497
1 SND	15.41	16.32	0.91	ø10/12 2 br.	13.09	0.80	5358.20	2.50	19016.00	38534.90	19016.00	3.549

Travata n. 313

Nodi: 3002 3005 3038

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>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	25.00	6.03	6.03	6.03	6.03	-3013.96	-5492.82	1.822
1.50	17	SLU	1	150.00	6.03	6.03	6.03	6.03	1291.20	5492.82	4.254
1.75	17	SLU	2	25.00	6.03	6.03	6.03	6.03	-2554.34	-5492.82	2.150

3.35	17	SLU	2	185.39	6.03	6.03	6.03	6.03	3406.02	5492.82	1.613
5.95	17	SLU	2	444.50	6.03	6.03	6.03	6.03	-5630.07	-5492.82	1.076

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	5	SND	1	25.00	6.03	6.03	6.03	6.03	-3122.50	-5191.67	1.663
1.50	1	SND	1	150.00	6.03	6.03	6.03	6.03	1352.26	5191.67	3.839
1.75	5	SND	2	25.00	6.03	6.03	6.03	6.03	-2894.20	-5191.67	1.794
3.35	13	SND	2	185.39	6.03	6.03	6.03	6.03	2426.20	5191.67	2.140
5.95	13	SND	2	444.50	6.03	6.03	6.03	6.03	-5059.08	-5191.67	1.026

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>
0.25	18	SLE R	1	25.00	6.03	6.03	-2157.48	1632.78	-335.35	44.23
0.25	20	SLE Q	1	25.00	6.03	6.03	-1857.99	1406.12	-288.80	38.09
1.50	18	SLE R	1	150.00	6.03	6.03	828.31	-128.75	626.86	16.98
1.50	20	SLE Q	1	150.00	6.03	6.03	645.15	-100.28	488.25	13.22
1.75	18	SLE R	2	25.00	6.03	6.03	-1956.34	1480.55	-304.09	40.10
1.75	20	SLE Q	2	25.00	6.03	6.03	-1733.95	1312.25	-269.52	35.54
3.35	18	SLE R	2	185.39	6.03	6.03	2552.95	-396.82	1932.06	52.33
3.35	20	SLE Q	2	185.39	6.03	6.03	2272.52	-353.24	1719.84	46.58
5.95	18	SLE R	2	444.50	6.03	6.03	-4200.02	3178.56	-652.84	86.09
5.95	20	SLE Q	2	444.50	6.03	6.03	-3756.00	2842.53	-583.82	76.99

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 off} <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
19	0.25	20	SLE Q	1	4	25.00	-1857.99	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1406.12	0.41	0.11
20	0.25	19	SLE F	1	4	25.00	-1935.00	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1464.40	0.43	0.11
41	1.50	20	SLE Q	1	4	150.00	645.15	27.00	212.00	0.50	16.00	156.91	6.03	348.70	488.25	0.14	0.04
42	1.50	19	SLE F	1	4	150.00	705.33	27.00	212.00	0.50	16.00	156.91	6.03	348.70	533.79	0.16	0.04
65	1.75	20	SLE Q	2	4	25.00	-1733.95	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1312.25	0.38	0.10
66	1.75	19	SLE F	2	4	25.00	-1774.79	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1343.16	0.39	0.10
85	3.35	20	SLE Q	2	4	185.39	2272.52	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1719.84	0.50	0.13
86	3.35	19	SLE F	2	4	185.39	2329.56	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1763.00	0.51	0.14
105	5.95	20	SLE Q	2	4	444.50	-3756.00	27.00	212.00	0.50	16.00	156.91	6.03	348.70	2842.53	1.00	0.27
106	5.95	19	SLE F	2	4	444.50	-3847.36	27.00	212.00	0.50	16.00	156.91	6.03	348.70	2911.67	0.85	0.23

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
17 SLU	0.25	0.53	0.28	ø10/15 2 br.	10.47	0.50	4985.04	2.50	22588.70	35761.60	22588.70	4.531
17 SLU	0.53	1.22	0.69	ø10/15 2 br.	10.47	0.50	4252.63	2.50	22588.70	35761.60	22588.70	5.312
1 SND	1.22	1.50	0.28	ø10/15 2 br.	10.47	0.50	2860.46	2.50	22588.70	35761.60	22588.70	7.897
17 SLU	1.75	2.03	0.28	ø10/15 2 br.	10.47	0.50	6041.90	2.50	22588.70	35761.60	22588.70	3.739
17 SLU	2.03	5.67	3.63	ø10/15 2 br.	10.47	0.50	6603.85	2.50	22588.70	35761.60	22588.70	3.421
17 SLU	5.67	5.95	0.28	ø10/15 2 br.	10.47	0.50	7508.28	2.50	22588.70	35761.60	22588.70	3.009

Travata n. 314

Nodi: 3097 -19735 -19736 -19737 -19738 3098 3099 3100 3101 3102 -19240 -19241 -19242 -19243 3103

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>
16	R	80.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
9	R	80.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
7.09	17	SLU	7	444.50	20.11	20.11	20.11	20.11	-7396.51	-14271.00	1.929
7.34	17	SLU	8	12.50	20.11	20.11	20.11	20.11	-6658.30	-14271.00	2.143
9.50	17	SLU	8	228.25	10.05	10.05	10.05	10.05	3359.86	7549.53	2.247
14.96	17	SLU	9	330.00	10.05	10.05	10.05	10.05	-3277.53	-7549.53	2.303
15.21	17	SLU	10	0.00	10.05	10.05	10.05	10.05	-958.74	-5975.98	6.233

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
7.09	13	SND	7	444.50	20.11	20.11	20.11	20.11	-4800.97	-13795.50	2.873
7.34	13	SND	8	12.50	20.11	20.11	20.11	20.11	-4545.90	-13795.50	3.035
9.50	5	SND	8	228.25	10.05	10.05	10.05	10.05	2118.50	7130.34	3.366
14.96	1	SND	9	330.00	10.05	10.05	10.05	10.05	-2078.37	-7130.34	3.431
15.21	13	SND	10	0.00	10.05	10.05	10.05	10.05	-934.04	-5629.97	6.028

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>
7.09	18	SLE R	7	444.50	20.11	20.11	-5459.64	1545.49	-536.57	64.35
7.09	20	SLE Q	7	444.50	20.11	20.11	-4672.94	1322.79	-459.25	55.08
7.34	18	SLE R	8	12.50	20.11	20.11	-4924.03	1393.87	-483.93	58.04
7.34	20	SLE Q	8	12.50	20.11	20.11	-4188.01	1185.52	-411.60	49.36
9.50	18	SLE R	8	228.25	10.05	10.05	2489.13	-289.23	1370.82	42.07
9.50	20	SLE Q	8	228.25	10.05	10.05	2104.57	-244.55	1159.04	35.57
14.96	18	SLE R	9	330.00	10.05	10.05	-2433.38	1340.12	-282.75	41.12
14.96	20	SLE Q	9	330.00	10.05	10.05	-2021.98	1113.55	-234.95	34.17
15.21	18	SLE R	10	0.00	10.05	10.05	-711.84	496.00	-100.84	17.43
15.21	20	SLE Q	10	0.00	10.05	10.05	-618.56	431.01	-87.62	15.15

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>
19	7.09	20	SLE Q	7	9	444.50	-4672.94	27.00	80.44	0.50	16.00	88.21	20.11	429.84	1322.79	0.48	0.07
20	7.09	19	SLE F	7	9	444.50	-4832.40	27.00	80.44	0.50	16.00	88.21	20.11	429.84	1367.93	0.42	0.06
39	7.34	20	SLE Q	8	9	12.50	-4188.01	27.00	80.44	0.50	16.00	88.21	20.11	429.84	1185.52	0.41	0.06
40	7.34	19	SLE F	8	9	12.50	-4337.57	27.00	80.44	0.50	16.00	88.21	20.11	429.84	1227.86	0.36	0.05
59	9.50	20	SLE Q	8	9	228.25	2104.57	27.00	181.00	0.50	16.00	131.54	10.05	467.68	1159.04	0.34	0.08
60	9.50	19	SLE F	8	9	228.25	2181.95	27.00	181.00	0.50	16.00	131.54	10.05	467.68	1201.65	0.35	0.08
79	14.96	20	SLE Q	9	9	330.00	-2021.98	27.00	181.00	0.50	16.00	131.54	10.05	467.68	1113.55	0.32	0.07
80	14.96	19	SLE F	9	9	330.00	-2110.13	27.00	181.00	0.50	16.00	131.54	10.05	467.68	1162.10	0.34	0.08
99	15.21	20	SLE Q	10	16	0.00	-618.56	27.00	181.00	0.50	16.00	114.71	10.05	381.43	431.01	0.13	0.02
100	15.21	19	SLE F	10	16	0.00	-638.51	27.00	181.00	0.50	16.00	114.71	10.05	381.43	444.91	0.13	0.03

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5 SND	0.04	0.95	0.91	ø10/10 2 br.	15.71	0.80	2348.48	2.50	22819.20	38534.90	22819.20	9.717
5 SND	0.95	1.15	0.20	ø10/10 2 br.	15.71	0.80	2428.48	2.50	22819.20	38534.90	22819.20	9.397
17 SLU	1.15	6.86	5.71	ø10/10 2 br.	15.71	0.80	8212.86	2.50	28351.20	47876.70	28351.20	3.452
17 SLU	6.86	7.09	0.24	ø10/10 2 br.	15.71	0.80	9115.65	2.50	28351.20	47876.70	28351.20	3.110
17 SLU	7.34	7.58	0.24	ø10/10 2 br.	15.71	0.80	8548.14	2.50	28351.20	47876.70	28351.20	3.317
17 SLU	7.58	14.72	7.13	ø10/10 2 br.	15.71	0.80	7645.35	2.50	28351.20	47876.70	28351.20	3.708
17 SLU	14.72	14.96	0.24	ø10/10 2 br.	15.71	0.80	6109.56	2.50	28351.20	47876.70	28351.20	4.640
5 SND	15.21	15.41	0.20	ø10/10 2 br.	15.71	0.80	2202.35	2.50	22819.20	38534.90	22819.20	10.361
5 SND	15.41	16.32	0.91	ø10/10 2 br.	15.71	0.80	2122.35	2.50	22819.20	38534.90	22819.20	10.752

Travata n. 315

Nodi: 3039 3010 -618 3086

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>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.12	17	SLU	1	12.50	6.03	6.03	6.03	6.03	-4208.26	-5492.82	1.305
1.97	17	SLU	1	196.59	6.03	6.03	6.03	6.03	2924.48	5492.82	1.878
4.19	17	SLU	1	419.00	6.03	6.03	6.03	6.03	-3820.96	-5492.82	1.438
4.44	17	SLU	2	0.00	6.03	6.03	6.03	6.03	-3638.73	-5492.82	1.510
6.09	17	SLU	3	20.00	6.03	6.03	6.03	6.03	1859.32	5492.82	2.954
7.74	17	SLU	3	185.00	6.03	6.03	6.03	6.03	-1864.10	-5492.82	2.947

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.12	5	SND	1	12.50	6.03	6.03	6.03	6.03	-3817.69	-5191.67	1.360
1.97	13	SND	1	196.59	6.03	6.03	6.03	6.03	2026.34	5191.67	2.562
4.19	13	SND	1	419.00	6.03	6.03	6.03	6.03	-3528.36	-5191.67	1.471
4.44	5	SND	2	0.00	6.03	6.03	6.03	6.03	-4008.99	-5191.67	1.295
6.09	5	SND	3	20.00	6.03	6.03	6.03	6.03	1389.73	5191.67	3.736
7.74	13	SND	3	185.00	6.03	6.03	6.03	6.03	-2483.08	-5191.67	2.091

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>
0.12	18	SLE R	1	12.50	6.03	6.03	-3155.44	2388.03	-490.47	64.68
0.12	20	SLE Q	1	12.50	6.03	6.03	-2812.74	2128.68	-437.21	57.66
1.97	18	SLE R	1	196.59	6.03	6.03	2197.69	-341.60	1663.20	45.05

Relazione di calcolo

1.97	20	SLE Q	1	196.59	6.03	6.03	1956.54	-304.12	1480.70	40.11
4.19	18	SLE R	1	419.00	6.03	6.03	-2879.22	2178.99	-447.54	59.02
4.19	20	SLE Q	1	419.00	6.03	6.03	-2565.45	1941.53	-398.77	52.59
4.44	18	SLE R	2	0.00	6.03	6.03	-2742.93	2075.84	-426.35	56.23
4.44	20	SLE Q	2	0.00	6.03	6.03	-2512.43	1901.40	-390.53	51.50
6.09	18	SLE R	3	20.00	6.03	6.03	1400.30	-217.66	1059.74	28.70
6.09	20	SLE Q	3	20.00	6.03	6.03	1248.25	-194.02	944.67	25.59
7.74	18	SLE R	3	185.00	6.03	6.03	-1389.50	1051.57	-215.98	28.48
7.74	20	SLE Q	3	185.00	6.03	6.03	-1180.98	893.76	-183.57	24.21

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>
19	0.12	20	SLE Q	1	4	12.50	-2812.74	27.00	212.00	0.50	16.00	156.91	6.03	348.70	2128.68	0.65	0.17
20	0.12	19	SLE F	1	4	12.50	-2882.36	27.00	212.00	0.50	16.00	156.91	6.03	348.70	2181.36	0.64	0.17
39	1.97	20	SLE Q	1	4	196.59	1956.54	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1480.70	0.43	0.12
40	1.97	19	SLE F	1	4	196.59	2004.82	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1517.24	0.44	0.12
59	4.19	20	SLE Q	1	4	419.00	-2565.45	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1941.53	0.57	0.15
60	4.19	19	SLE F	1	4	419.00	-2627.06	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1988.15	0.58	0.15
79	4.44	20	SLE Q	2	4	0.00	-2512.43	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1901.40	0.55	0.15
80	4.44	19	SLE F	2	4	0.00	-2551.01	27.00	212.00	0.50	16.00	156.91	6.03	348.70	1930.59	0.56	0.15
99	6.09	20	SLE Q	3	4	20.00	1248.25	27.00	212.00	0.50	16.00	156.91	6.03	348.70	944.67	0.28	0.07
100	6.09	19	SLE F	3	4	20.00	1278.37	27.00	212.00	0.50	16.00	156.91	6.03	348.70	967.46	0.28	0.08
125	7.74	20	SLE Q	3	4	185.00	-1180.98	27.00	212.00	0.50	16.00	156.91	6.03	348.70	893.76	0.26	0.07
126	7.74	19	SLE F	3	4	185.00	-1229.08	27.00	212.00	0.50	16.00	156.91	6.03	348.70	930.17	0.27	0.07

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.
17 SLU	0.12	0.41	0.28	ø10/15 2 br.	10.47	0.50	6660.42	2.50	22588.70	35761.60	22588.70	3.391
17 SLU	0.41	3.91	3.50	ø10/15 2 br.	10.47	0.50	5755.98	2.50	22588.70	35761.60	22588.70	3.924
17 SLU	3.91	4.19	0.28	ø10/15 2 br.	10.47	0.50	6469.86	2.50	22588.70	35761.60	22588.70	3.491
17 SLU	4.44	4.72	0.28	ø10/15 2 br.	10.47	0.50	5867.40	2.50	22588.70	35761.60	22588.70	3.850
17 SLU	4.72	7.46	2.74	ø10/15 2 br.	10.47	0.50	4962.97	2.50	22588.70	35761.60	22588.70	4.551
17 SLU	7.46	7.74	0.28	ø10/15 2 br.	10.47	0.50	4791.86	2.50	22588.70	35761.60	22588.70	4.714

Travata n. 316

Nodi: 3017 -30781 -30780 -30779 -30778 -14761 3026 -35836 -29597 -31062 -31061 -31060 -31059 -31058 3033 3042 3048 -24446 -24445 -24444 -24443 -22849 -29533 -29532 -29436 -29932 -29931 3074 -620 3087

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.54	17	SLU	7	3.60	12.57	12.57	12.57	12.57	906.86	10886.30	12.005
2.50	17	SLU	7	100.00	25.13	25.13	25.13	25.13	-1003.17	-21182.80	21.116
4.21	17	SLU	15	0.00	12.57	12.57	12.57	12.57	671.08	10886.30	16.222
5.95	17	SLU	15	173.50	12.57	12.57	12.57	12.57	-2563.02	-10886.30	4.247
6.20	17	SLU	16	12.50	12.57	12.57	12.57	12.57	-2970.92	-10886.30	3.664
7.98	17	SLU	16	190.70	25.13	25.13	25.13	25.13	1107.08	21182.80	19.134
8.16	17	SLU	16	209.00	25.13	25.13	25.13	25.13	-950.75	-21182.80	22.280
10.51	17	SLU	28	0.00	12.57	12.57	12.57	12.57	-5407.12	-10886.30	2.013

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
1.54	13	SND	7	3.60	12.57	12.57	12.57	12.57	10340.60	10498.60	1.015
2.50	13	SND	7	100.00	25.13	25.13	25.13	25.13	-10081.40	-20556.70	2.039
4.21	13	SND	15	0.00	12.57	12.57	12.57	12.57	8454.60	10498.60	1.242
5.95	13	SND	15	173.50	12.57	12.57	12.57	12.57	-8083.91	-10498.60	1.299
6.20	9	SND	16	12.50	12.57	12.57	12.57	12.57	-7400.18	-10498.60	1.419
7.98	5	SND	16	190.70	25.13	25.13	25.13	25.13	-6695.97	-20556.70	3.070
8.16	5	SND	16	209.00	25.13	25.13	25.13	25.13	-6695.97	-20556.70	3.070
10.51	5	SND	28	0.00	12.57	12.57	12.57	12.57	-6902.32	-10498.60	1.521

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _ε sup <daN/cmq>	σ _ε inf <daN/cmq>	σ _c <daN/cmq>
1.54	18	SLE R	7	3.60	12.57	12.57	650.09	-82.35	242.11	9.09
1.54	20	SLE Q	7	3.60	12.57	12.57	619.48	-78.47	230.71	8.67
2.50	18	SLE R	7	100.00	25.13	25.13	-714.23	135.22	-66.29	6.66
2.50	20	SLE Q	7	100.00	25.13	25.13	-686.34	129.94	-63.70	6.40

Relazione di calcolo

4.21	18	SLE R	15	0.00	12.57	12.57	492.42	-62.38	183.39	6.89
4.21	20	SLE Q	15	0.00	12.57	12.57	453.85	-57.49	169.02	6.35
5.95	18	SLE R	15	173.50	12.57	12.57	-1860.97	693.07	-235.73	26.04
5.95	20	SLE Q	15	173.50	12.57	12.57	-1688.68	628.91	-213.91	23.62
6.20	18	SLE R	16	12.50	12.57	12.57	-2158.46	803.86	-273.41	30.20
6.20	20	SLE Q	16	12.50	12.57	12.57	-1958.06	729.23	-248.03	27.39
7.98	18	SLE R	16	190.70	25.13	25.13	807.49	-74.95	152.88	7.53
7.98	20	SLE Q	16	190.70	25.13	25.13	734.33	-68.16	139.03	6.85
8.16	18	SLE R	16	209.00	25.13	25.13	-642.83	121.71	-59.66	5.99
8.16	20	SLE Q	16	209.00	25.13	25.13	-521.17	98.67	-48.37	4.86
10.51	18	SLE R	28	0.00	12.57	12.57	-3886.66	1447.49	-492.32	54.38
10.51	20	SLE Q	28	0.00	12.57	12.57	-3569.21	1329.27	-452.11	49.93

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>
19	1.54	20	SLE Q	7	4	3.60	619.48	25.00	140.00	0.50	20.00	100.85	12.57	319.50	230.71	0.07	0.01
20	1.54	19	SLE F	7	4	3.60	625.56	25.00	140.00	0.50	20.00	100.85	12.57	319.50	232.98	0.07	0.01
39	2.50	20	SLE Q	7	4	100.00	-686.34	25.00	60.00	0.50	20.00	73.33	25.13	293.20	129.94	0.04	0.00
40	2.50	19	SLE F	7	4	100.00	-691.34	25.00	60.00	0.50	20.00	73.33	25.13	293.20	130.89	0.04	0.00
59	4.21	20	SLE Q	15	4	0.00	453.85	25.00	140.00	0.50	20.00	100.85	12.57	319.50	169.02	0.05	0.01
60	4.21	19	SLE F	15	4	0.00	461.46	25.00	140.00	0.50	20.00	100.85	12.57	319.50	171.86	0.05	0.01
79	5.95	20	SLE Q	15	4	173.50	-1688.68	25.00	140.00	0.50	20.00	100.85	12.57	319.50	628.91	0.18	0.03
80	5.95	19	SLE F	15	4	173.50	-1724.29	25.00	140.00	0.50	20.00	100.85	12.57	319.50	642.17	0.19	0.03
99	6.20	20	SLE Q	16	4	12.50	-1958.06	25.00	140.00	0.50	20.00	100.85	12.57	319.50	729.23	0.21	0.04
100	6.20	19	SLE F	16	4	12.50	-2001.00	25.00	140.00	0.50	20.00	100.85	12.57	319.50	745.22	0.22	0.04
122	7.98	20	SLE Q	16	4	190.70	734.33	25.00	60.00	0.50	20.00	73.33	25.13	293.20	139.03	0.04	0.01
124	7.98	19	SLE F	16	4	190.70	750.30	25.00	60.00	0.50	20.00	73.33	25.13	293.20	142.05	0.04	0.01
145	8.16	20	SLE Q	16	4	209.00	-521.17	25.00	60.00	0.50	20.00	73.33	25.13	293.20	98.67	0.03	0.00
147	8.16	19	SLE F	16	4	209.00	-549.38	25.00	60.00	0.50	20.00	73.33	25.13	293.20	104.01	0.03	0.00
171	10.51	20	SLE Q	28	4	0.00	-3569.21	25.00	140.00	0.50	20.00	100.85	12.57	319.50	1329.26	0.46	0.08
172	10.51	19	SLE F	28	4	0.00	-3631.13	25.00	140.00	0.50	20.00	100.85	12.57	319.50	1352.32	0.39	0.07

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.
13 SND	1.50	1.78	0.28	ø10/15 2 br.	10.47	0.50	18791.40	2.50	22588.70	35761.60	22588.70	1.202
13 SND	1.78	2.22	0.44	ø10/15 2 br.	10.47	0.50	20172.30	2.50	22588.70	35761.60	22588.70	1.120
13 SND	2.22	2.50	0.28	ø10/15 2 br.	10.47	0.50	21051.10	2.50	22588.70	35761.60	22588.70	1.073
5 SND	4.21	4.49	0.28	ø10/15 2 br.	10.47	0.50	9729.41	2.50	22588.70	35761.60	22588.70	2.322
13 SND	4.49	5.67	1.17	ø10/15 2 br.	10.47	0.50	10865.30	2.50	22588.70	35761.60	22588.70	2.079
13 SND	5.67	5.95	0.28	ø10/15 2 br.	10.47	0.50	11744.10	2.50	22588.70	35761.60	22588.70	1.923
9 SND	6.20	6.47	0.28	ø10/15 2 br.	10.47	0.50	10863.40	2.50	22588.70	35761.60	22588.70	2.079
9 SND	6.47	7.88	1.40	ø10/15 2 br.	10.47	0.50	9628.00	2.50	22588.70	35761.60	22588.70	2.346
1 SND	7.88	8.16	0.28	ø10/15 2 br.	10.47	0.50	9400.92	2.50	22588.70	35761.60	22588.70	2.403
17 SLU	10.51	10.79	0.28	ø10/15 2 br.	10.47	0.50	8762.98	2.50	22588.70	35761.60	22588.70	2.578
17 SLU	10.79	14.02	3.23	ø10/15 2 br.	10.47	0.50	7602.55	2.50	22588.70	35761.60	22588.70	2.971

Travata n. 317

Nodi: -606 -21478 -21477 -608 -611

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>
6R		20.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.04	17	SLU	1	3.60	4.02	4.02	4.02	4.02	94.82	3527.53	37.201
0.65	17	SLU	4	0.00	4.02	4.02	4.02	4.02	269.12	3527.53	13.108
1.86	17	SLU	4	121.00	4.02	4.02	4.02	4.02	-278.34	-3527.53	12.674

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.04	13	SND	1	3.60	4.02	4.02	4.02	4.02	481.44	3388.71	7.039
0.65	13	SND	4	0.00	4.02	4.02	4.02	4.02	917.17	3388.71	3.695
1.86	13	SND	4	121.00	4.02	4.02	4.02	4.02	-1115.97	-3388.71	3.037

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>
0.04	18	SLE R	1	3.60	4.02	4.02	68.72	-23.51	79.43	2.71
0.04	20	SLE Q	1	3.60	4.02	4.02	62.06	-21.23	71.72	2.45
0.65	18	SLE R	4	0.00	4.02	4.02	195.78	-66.96	226.27	7.72
0.65	20	SLE Q	4	0.00	4.02	4.02	177.58	-60.74	205.23	7.00

Relazione di calcolo

1.86	18	SLE R	4	121.00	4.02	4.02	-203.47	235.15	-69.59	8.03
1.86	20	SLE Q	4	121.00	4.02	4.02	-184.02	212.67	-62.94	7.26

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
<m>						<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
21	0.04	20	SLE Q	1	6	3.60	62.06	27.00	128.00	0.50	16.00	106.27	4.02	131.36	71.72	0.02	0.00
23	0.04	19	SLE F	1	6	3.60	63.60	27.00	128.00	0.50	16.00	106.27	4.02	131.36	73.50	0.02	0.00
43	0.65	20	SLE Q	4	6	0.00	177.58	27.00	128.00	0.50	16.00	106.27	4.02	131.36	205.23	0.06	0.01
44	0.65	19	SLE F	4	6	0.00	181.73	27.00	128.00	0.50	16.00	106.27	4.02	131.36	210.03	0.06	0.01
63	1.86	20	SLE Q	4	6	121.00	-184.02	27.00	128.00	0.50	16.00	106.27	4.02	131.36	212.67	0.06	0.01
64	1.86	19	SLE F	4	6	121.00	-188.48	27.00	128.00	0.50	16.00	106.27	4.02	131.36	217.83	0.06	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>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
5 SND	0.04	0.32	0.28	ø8/15 2 br.	6.70	0.20	1211.80	2.48	14368.30	14368.30	14368.30	11.857
13 SND	0.32	1.54	1.23	ø8/15 2 br.	6.70	0.20	1641.12	2.48	14368.30	14368.30	14368.30	8.755
13 SND	1.54	1.82	0.28	ø8/15 2 br.	6.70	0.20	1680.32	2.48	14368.30	14368.30	14368.30	8.551

Travata n. 318

Nodi: 3049 3052 -37383 -37382 -37381 -37380 -37379 -37378 -37377 -37376 3076

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
6R		20.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.40	17	SLU	1	40.00	4.02	4.02	4.02	4.02	-196.99	-3527.53	17.907

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.40	13	SND	1	40.00	4.02	4.02	4.02	4.02	2891.36	3388.71	1.172

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	18	SLE R	1	40.00	4.02	4.02	-138.26	159.79	-47.29	5.45
0.40	20	SLE Q	1	40.00	4.02	4.02	-111.34	128.68	-38.08	4.39

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
<m>						<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
21	0.40	20	SLE Q	1	6	40.00	-111.34	27.00	128.00	0.50	16.00	106.27	4.02	131.36	128.68	0.04	0.01
23	0.40	19	SLE F	1	6	40.00	-117.64	27.00	128.00	0.50	16.00	106.27	4.02	131.36	135.96	0.04	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>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
5 SND	0.04	0.40	0.36	ø8/15 2 br.	6.70	0.20	11456.00	2.48	14368.30	14368.30	14368.30	1.254

Travata n. 319

Nodi: -607 -21471 -21472 -609 -612

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
6R		20.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	MRdy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.04	17	SLU	1	3.60	4.02	4.02	4.02	4.02	91.83	3527.53	38.415
0.65	17	SLU	4	0.00	4.02	4.02	4.02	4.02	193.00	3527.53	18.277
1.86	17	SLU	4	121.00	4.02	4.02	4.02	4.02	-106.43	-3527.53	33.143

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
0.04	5	SND	1	3.60	4.02	4.02	4.02	4.02	495.31	3388.71	6.842
0.65	5	SND	4	0.00	4.02	4.02	4.02	4.02	810.79	3388.71	4.179

1.86	5	SND	4	121.00	4.02	4.02	4.02	4.02	-469.05	-3388.71	7.22	5
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Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_e sup <daN/cmq>	σ_e inf <daN/cmq>	σ_c <daN/cmq>
0.04	18	SLE R	1	3.60	4.02	4.02	66.28	-22.67	76.60	2.61
0.04	20	SLE Q	1	3.60	4.02	4.02	59.85	-20.47	69.16	2.36
0.65	18	SLE R	4	0.00	4.02	4.02	140.46	-48.04	162.33	5.54
0.65	20	SLE Q	4	0.00	4.02	4.02	129.76	-44.38	149.97	5.12
1.86	18	SLE R	4	121.00	4.02	4.02	-79.54	91.92	-27.20	3.14
1.86	20	SLE Q	4	121.00	4.02	4.02	-74.42	86.00	-25.45	2.94

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>
21	0.04	20	SLE Q	1	6	3.60	59.85	27.00	128.00	0.50	16.00	106.27	4.02	131.36	69.16	0.02	0.00
23	0.04	19	SLE F	1	6	3.60	61.33	27.00	128.00	0.50	16.00	106.27	4.02	131.36	70.88	0.02	0.00
43	0.65	20	SLE Q	4	6	0.00	129.76	27.00	128.00	0.50	16.00	106.27	4.02	131.36	149.97	0.04	0.01
44	0.65	19	SLE F	4	6	0.00	132.40	27.00	128.00	0.50	16.00	106.27	4.02	131.36	153.01	0.04	0.01
63	1.86	20	SLE Q	4	6	121.00	-74.42	27.00	128.00	0.50	16.00	106.27	4.02	131.36	86.00	0.03	0.00
64	1.86	19	SLE F	4	6	121.00	-75.93	27.00	128.00	0.50	16.00	106.27	4.02	131.36	87.75	0.03	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
13 SND	0.04	0.32	0.28	ø8/15 2 br.	6.70	0.20	1091.23	2.48	14368.30	14368.30	14368.30	13.167
5 SND	0.32	1.54	1.23	ø8/15 2 br.	6.70	0.20	1036.58	2.48	14368.30	14368.30	14368.30	13.861
5 SND	1.54	1.82	0.28	ø8/15 2 br.	6.70	0.20	1075.78	2.48	14368.30	14368.30	14368.30	13.356

Travata n. 320

Nodi: 3024 -16295 -16294 -16293 -16292 -16291 3027 -35800 -29337 -31560 -31559 -31558 -31557 -31556 3034 -36926 -36932 -36931 3044 -36930 3046 3050 -37671 3078 -621 3091

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>
7R		25.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CCTCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.54	17	SLU	7	3.60	13.57	13.57	13.57	891.62	11710.60	13.134
2.50	17	SLU	7	100.00	26.14	26.14	26.14	-1051.56	-22006.70	20.928
4.21	17	SLU	15	0.00	12.57	12.57	12.57	-359.75	-10886.30	30.261
6.21	17	SLU	19	14.50	12.57	12.57	12.57	-2418.31	-10886.30	4.502
6.46	17	SLU	21	12.50	12.57	12.57	12.57	-2801.80	-10886.30	3.885
8.16	17	SLU	21	182.00	12.57	12.57	12.57	749.74	10886.30	14.520
8.96	17	SLU	22	80.00	12.57	12.57	12.57	466.21	10886.30	23.351
10.26	17	SLU	23	98.00	25.13	25.13	25.13	-1869.09	-21182.80	11.333
10.51	17	SLU	24	0.00	25.13	25.13	25.13	-4432.82	-21182.80	4.779

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CCTCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
1.54	5	SND	7	3.60	13.57	13.57	13.57	11139.30	11307.80	1.015
2.50	5	SND	7	100.00	26.14	26.14	26.14	-12007.00	-21359.30	1.779
4.21	5	SND	15	0.00	12.57	12.57	12.57	7013.31	10498.60	1.497
6.21	5	SND	19	14.50	12.57	12.57	12.57	-6675.42	-10498.60	1.573
6.46	13	SND	21	12.50	12.57	12.57	12.57	-7467.42	-10498.60	1.406
8.16	13	SND	21	182.00	12.57	12.57	12.57	10270.20	10498.60	1.022
8.96	5	SND	22	80.00	12.57	12.57	12.57	9566.62	10498.60	1.097
10.26	5	SND	23	98.00	25.13	25.13	25.13	-7924.88	-20556.70	2.594
10.51	9	SND	24	0.00	25.13	25.13	25.13	-5267.89	-20556.70	3.902

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_e sup <daN/cmq>	σ_e inf <daN/cmq>	σ_c <daN/cmq>
1.54	18	SLE R	7	3.60	13.57	13.57	641.41	-78.90	221.68	8.60
1.54	20	SLE Q	7	3.60	13.57	13.57	692.17	-85.15	239.22	9.28
2.50	18	SLE R	7	100.00	26.14	26.14	-755.39	137.61	-68.67	6.87
2.50	20	SLE Q	7	100.00	26.14	26.14	-804.74	146.60	-73.16	7.32
4.21	18	SLE R	15	0.00	12.57	12.57	261.60	-33.14	97.43	3.66
4.21	20	SLE Q	15	0.00	12.57	12.57	254.02	-32.18	94.60	3.55
6.21	18	SLE R	19	14.50	12.57	12.57	-1744.97	649.87	-221.04	24.41
6.21	20	SLE Q	19	14.50	12.57	12.57	-1623.63	604.68	-205.66	22.71

Relazione di calcolo

6.46	18	SLE R	21	12.50	12.57	12.57	-2029.02	755.66	-257.01	28.39
6.46	20	SLE Q	21	12.50	12.57	12.57	-1920.61	715.28	-243.28	26.87
8.16	18	SLE R	21	182.00	12.57	12.57	569.82	-72.18	212.22	7.97
8.16	20	SLE Q	21	182.00	12.57	12.57	598.97	-75.87	223.07	8.38
8.96	18	SLE R	22	80.00	12.57	12.57	326.45	-41.35	121.58	4.57
8.96	20	SLE Q	22	80.00	12.57	12.57	272.34	-34.50	101.42	3.81
10.26	18	SLE R	23	98.00	25.13	25.13	-1331.72	252.13	-123.60	12.41
10.26	20	SLE Q	23	98.00	25.13	25.13	-1178.54	223.13	-109.38	10.99
10.51	18	SLE R	24	0.00	25.13	25.13	-3185.81	603.17	-295.69	29.70
10.51	20	SLE Q	24	0.00	25.13	25.13	-2906.42	550.27	-269.75	27.09

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>
19	1.54	20	SLE Q	7	4	3.60	692.17	23.00	208.00	0.50	24.00	142.41	13.57	316.46	239.22	0.07	0.02
20	1.54	19	SLE F	7	4	3.60	680.60	23.00	208.00	0.50	24.00	142.41	13.57	316.46	235.23	0.07	0.02
39	2.50	20	SLE Q	7	4	100.00	-804.74	24.14	70.00	0.50	21.89	72.73	26.14	291.82	146.60	0.04	0.01
40	2.50	19	SLE F	7	4	100.00	-793.31	24.14	70.00	0.50	21.89	72.73	26.14	291.82	144.52	0.04	0.01
61	4.21	20	SLE Q	15	4	0.00	254.02	25.00	140.00	0.50	20.00	100.85	12.57	319.50	94.60	0.03	0.00
63	4.21	19	SLE F	15	4	0.00	255.94	25.00	140.00	0.50	20.00	100.85	12.57	319.50	95.32	0.03	0.00
83	6.21	20	SLE Q	19	4	14.50	-1623.63	25.00	140.00	0.50	20.00	100.85	12.57	319.50	604.68	0.18	0.03
84	6.21	19	SLE F	19	4	14.50	-1651.02	25.00	140.00	0.50	20.00	100.85	12.57	319.50	614.88	0.18	0.03
103	6.46	20	SLE Q	21	4	12.50	-1920.61	25.00	140.00	0.50	20.00	100.85	12.57	319.50	715.28	0.21	0.04
104	6.46	19	SLE F	21	4	12.50	-1946.60	25.00	140.00	0.50	20.00	100.85	12.57	319.50	724.96	0.21	0.04
125	8.16	20	SLE Q	21	4	182.00	598.97	25.00	140.00	0.50	20.00	100.85	12.57	319.50	223.07	0.06	0.01
126	8.16	19	SLE F	21	4	182.00	594.29	25.00	140.00	0.50	20.00	100.85	12.57	319.50	221.33	0.06	0.01
147	8.96	20	SLE Q	22	4	80.00	272.34	25.00	140.00	0.50	20.00	100.85	12.57	319.50	101.42	0.03	0.01
149	8.96	19	SLE F	22	4	80.00	285.09	25.00	140.00	0.50	20.00	100.85	12.57	319.50	106.18	0.03	0.01
169	10.26	20	SLE Q	23	4	98.00	-1178.54	25.00	60.00	0.50	20.00	73.33	25.13	293.20	223.13	0.06	0.01
170	10.26	19	SLE F	23	4	98.00	-1210.04	25.00	60.00	0.50	20.00	73.33	25.13	293.20	229.10	0.07	0.01
192	10.51	20	SLE Q	24	4	0.00	-2906.42	25.00	60.00	0.50	20.00	73.33	25.13	293.20	550.27	0.16	0.02
193	10.51	19	SLE F	24	4	0.00	-2961.63	25.00	60.00	0.50	20.00	73.33	25.13	293.20	560.72	0.16	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.
5 SND	1.50	1.78	0.28	ø10/14 2 br.	11.22	0.50	21583.10	2.50	24202.20	35761.60	24202.20	1.121
5 SND	1.78	2.22	0.44	ø10/14 2 br.	11.22	0.50	22684.20	2.50	24202.20	35761.60	24202.20	1.067
5 SND	2.22	2.50	0.28	ø10/14 2 br.	11.22	0.50	23384.90	2.50	24202.20	35761.60	24202.20	1.035
13 SND	4.21	4.49	0.28	ø10/15 2 br.	10.47	0.50	7537.09	2.50	22588.70	35761.60	22588.70	2.997
5 SND	4.49	5.93	1.44	ø10/15 2 br.	10.47	0.50	8023.61	2.50	22588.70	35761.60	22588.70	2.815
5 SND	5.93	6.21	0.28	ø10/15 2 br.	10.47	0.50	12420.90	2.50	22588.70	35761.60	22588.70	1.819
13 SND	6.46	6.75	0.28	ø10/15 2 br.	10.47	0.50	13122.00	2.50	22588.70	35761.60	22588.70	1.721
13 SND	6.75	7.88	1.13	ø10/15 2 br.	10.47	0.50	12035.90	2.50	22588.70	35761.60	22588.70	1.877
5 SND	7.88	8.16	0.28	ø10/15 2 br.	10.47	0.50	10717.60	2.50	22588.70	35761.60	22588.70	2.108
13 SND	8.96	9.24	0.28	ø10/15 2 br.	10.47	0.50	13495.10	2.50	22588.70	35761.60	22588.70	1.674
5 SND	9.24	9.98	0.74	ø10/15 2 br.	10.47	0.50	14663.20	2.50	22588.70	35761.60	22588.70	1.540
5 SND	9.98	10.26	0.28	ø10/15 2 br.	10.47	0.50	15535.80	2.50	22588.70	35761.60	22588.70	1.454
17 SLU	10.51	10.79	0.28	ø10/15 2 br.	10.47	0.50	6157.24	2.50	22588.70	35761.60	22588.70	3.669
17 SLU	10.79	14.02	3.23	ø10/15 2 br.	10.47	0.50	5342.04	2.50	22588.70	35761.60	22588.70	4.228

Travata n. 322

Nodi: 3003 3006 3007 3009 -35231 -623 3093

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>
4R		50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CCTCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	MRdy <daNm>	Sic.	
0.25	17	SLU	1	25.00	12.57	9.42	12.57	9.42	-1592.16	-10882.70	6.835
1.50	17	SLU	1	150.00	12.57	9.42	12.57	9.42	-2147.92	-10882.70	5.067
1.75	17	SLU	2	25.00	12.57	9.42	12.57	9.42	-6713.47	-10882.70	1.621
3.66	17	SLU	2	216.36	12.57	9.42	12.57	9.42	5782.25	8299.80	1.435
6.21	17	SLU	2	471.50	25.13	18.85	25.13	18.85	-8435.93	-21131.10	2.505
6.46	17	SLU	3	12.50	25.13	18.85	25.13	18.85	-3949.26	-21131.10	5.351
6.80	17	SLU	3	46.12	12.57	9.42	12.57	9.42	-3543.90	-10882.70	3.071
9.15	17	SLU	3	281.50	12.57	9.42	12.57	9.42	-4151.85	-10882.70	2.621
9.40	17	SLU	4	12.50	12.57	9.42	12.57	9.42	-8204.10	-10882.70	1.326
11.60	17	SLU	5	108.75	12.57	9.42	12.57	9.42	5640.35	8299.80	1.472
13.81	17	SLU	6	185.00	12.57	9.42	12.57	9.42	-6518.53	-10882.70	1.669

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CCTCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
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Relazione di calcolo

0.25	5	SND	1	25.00	12.57	9.42	12.57	9.42	4721.07	7972.02	1.689
1.50	5	SND	1	150.00	12.57	9.42	12.57	9.42	-5614.00	-10469.10	1.865
1.75	13	SND	2	25.00	12.57	9.42	12.57	9.42	-6593.82	-10469.10	1.588
3.66	5	SND	2	216.36	12.57	9.42	12.57	9.42	3885.25	7972.02	2.052
6.21	5	SND	2	471.50	25.13	18.85	25.13	18.85	-7873.53	-20393.80	2.590
6.46	13	SND	3	12.50	25.13	18.85	25.13	18.85	-5947.21	-20393.80	3.429
6.80	13	SND	3	46.12	12.57	9.42	12.57	9.42	-5537.45	-10469.10	1.891
9.15	5	SND	3	281.50	12.57	9.42	12.57	9.42	-5950.89	-10469.10	1.759
9.40	13	SND	4	12.50	12.57	9.42	12.57	9.42	-8020.07	-10469.10	1.305
11.60	13	SND	5	108.75	12.57	9.42	12.57	9.42	4206.22	7972.02	1.895
13.81	5	SND	6	185.00	12.57	9.42	12.57	9.42	-7321.36	-10469.10	1.430

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>
0.25	18	SLE R	1	25.00	12.57	9.42	-1116.29	416.56	-153.40	16.56
0.25	20	SLE Q	1	25.00	12.57	9.42	-950.60	354.73	-130.63	14.10
1.50	18	SLE R	1	150.00	12.57	9.42	-1572.28	586.72	-216.06	23.32
1.50	20	SLE Q	1	150.00	12.57	9.42	-1455.53	543.15	-200.02	21.59
1.75	18	SLE R	2	25.00	12.57	9.42	-4836.32	1804.73	-664.61	71.74
1.75	20	SLE Q	2	25.00	12.57	9.42	-4268.14	1592.70	-586.53	63.32
3.66	18	SLE R	2	216.36	12.57	9.42	4162.32	-533.28	2046.65	64.22
3.66	20	SLE Q	2	216.36	12.57	9.42	3684.96	-472.12	1811.93	56.85
6.21	18	SLE R	2	471.50	25.13	18.85	-6073.58	1155.65	-635.86	62.30
6.21	20	SLE Q	2	471.50	25.13	18.85	-5392.79	1026.11	-564.58	55.31
6.46	18	SLE R	3	12.50	25.13	18.85	-2854.02	543.05	-298.79	29.27
6.46	20	SLE Q	3	12.50	25.13	18.85	-2538.22	482.96	-265.73	26.03
6.80	18	SLE R	3	46.12	12.57	9.42	-2561.84	955.98	-352.05	38.00
6.80	20	SLE Q	3	46.12	12.57	9.42	-2279.53	850.63	-313.25	33.82
9.15	18	SLE R	3	281.50	12.57	9.42	-2986.01	1114.26	-410.34	44.30
9.15	20	SLE Q	3	281.50	12.57	9.42	-2655.21	990.82	-364.88	39.39
9.40	18	SLE R	4	12.50	12.57	9.42	-5902.91	2202.74	-811.18	87.57
9.40	20	SLE Q	4	12.50	12.57	9.42	-5278.41	1969.70	-725.36	78.30
11.60	18	SLE R	5	108.75	12.57	9.42	4067.78	-521.16	2000.17	62.76
11.60	20	SLE Q	5	108.75	12.57	9.42	3604.58	-461.82	1772.41	55.61
13.81	18	SLE R	6	185.00	12.57	9.42	-4686.03	1748.64	-643.95	69.51
13.81	20	SLE Q	6	185.00	12.57	9.42	-4095.06	1528.12	-562.74	60.75

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>
19	0.25	20	SLE Q	1	4	25.00	-950.60	25.00	140.00	0.50	20.00	100.00	12.57	314.13	354.73	0.10	0.02
20	0.25	19	SLE F	1	4	25.00	-995.22	25.00	140.00	0.50	20.00	100.00	12.57	314.13	371.38	0.11	0.02
40	1.50	20	SLE Q	1	4	150.00	-1455.53	25.00	140.00	0.50	20.00	100.00	12.57	314.13	543.15	0.16	0.03
41	1.50	19	SLE F	1	4	150.00	-1460.45	25.00	140.00	0.50	20.00	100.00	12.57	314.13	544.98	0.16	0.03
60	1.75	20	SLE Q	2	4	25.00	-4268.14	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1592.70	0.59	0.10
61	1.75	19	SLE F	2	4	25.00	-4381.46	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1634.99	0.51	0.09
80	3.66	20	SLE Q	2	4	216.36	3684.96	25.00	210.00	0.50	20.00	151.19	9.42	335.99	1811.93	0.63	0.16
81	3.66	19	SLE F	2	4	216.36	3779.98	25.00	210.00	0.50	20.00	151.19	9.42	335.99	1858.65	0.54	0.14
100	6.21	20	SLE Q	2	4	471.50	-5392.79	25.00	60.00	0.50	20.00	72.61	25.13	284.11	1026.11	0.39	0.05
101	6.21	19	SLE F	2	4	471.50	-5530.12	25.00	60.00	0.50	20.00	72.61	25.13	284.11	1052.24	0.35	0.04
122	6.46	20	SLE Q	3	4	12.50	-2538.22	25.00	60.00	0.50	20.00	72.61	25.13	284.11	482.96	0.14	0.02
123	6.46	19	SLE F	3	4	12.50	-2598.50	25.00	60.00	0.50	20.00	72.61	25.13	284.11	494.43	0.14	0.02
146	6.80	20	SLE Q	3	4	46.12	-2279.53	25.00	140.00	0.50	20.00	100.00	12.57	314.13	850.63	0.25	0.04
147	6.80	19	SLE F	3	4	46.12	-2333.12	25.00	140.00	0.50	20.00	100.00	12.57	314.13	870.63	0.25	0.04
169	9.15	20	SLE Q	3	4	281.50	-2655.21	25.00	140.00	0.50	20.00	100.00	12.57	314.13	990.82	0.29	0.05
170	9.15	19	SLE F	3	4	281.50	-2719.00	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1014.62	0.30	0.05
189	9.40	20	SLE Q	4	4	12.50	-5278.41	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1969.70	0.77	0.13
190	9.40	19	SLE F	4	4	12.50	-5400.22	25.00	140.00	0.50	20.00	100.00	12.57	314.13	2015.15	0.70	0.12
209	11.60	20	SLE Q	5	4	108.75	3604.58	25.00	210.00	0.50	20.00	151.19	9.42	335.99	1772.41	0.61	0.16
210	11.60	19	SLE F	5	4	108.75	3695.23	25.00	210.00	0.50	20.00	151.19	9.42	335.99	1816.98	0.53	0.14
231	13.81	20	SLE Q	6	4	185.00	-4095.06	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1528.12	0.55	0.09
232	13.81	19	SLE F	6	4	185.00	-4219.60	25.00	140.00	0.50	20.00	100.00	12.57	314.13	1574.59	0.48	0.08

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.
13 SND	0.25	0.53	0.28	ø10/15 2 br.	10.47	0.50	8843.56	2.50	22588.70	35761.60	22588.70	2.554
5 SND	0.53	1.22	0.69	ø10/15 2 br.	10.47	0.50	8877.36	2.50	22588.70	35761.60	22588.70	2.545
5 SND	1.22	1.50	0.28	ø10/15 2 br.	10.47	0.50	9651.45	2.50	22588.70	35761.60	22588.70	2.340
17 SLU	1.75	2.03	0.28	ø10/15 2 br.	10.47	0.50	11096.30	2.50	22588.70	35761.60	22588.70	2.036
17 SLU	2.03	5.93	3.90	ø10/15 2 br.	10.47	0.50	10427.70	2.50	22588.70	35761.60	22588.70	2.166
17 SLU	5.93	6.21	0.28	ø10/15 2 br.	10.47	0.50	11867.80	2.50	22588.70	35761.60	22588.70	1.903
13 SND	6.46	6.75	0.28	ø10/15 2 br.	10.47	0.50	6858.64	2.50	22588.70	35761.60	22588.70	3.293
5 SND	6.75	8.88	2.13	ø10/15 2 br.	10.47	0.50	6027.56	2.50	22588.70	35761.60	22588.70	3.748
17 SLU	8.88	9.15	0.28	ø10/15 2 br.	10.47	0.50	6992.82	2.50	22588.70	35761.60	22588.70	3.230
17 SLU	9.40	9.69	0.28	ø10/15 2 br.	10.47	0.50	11710.40	2.50	22588.70	35761.60	22588.70	1.929
17 SLU	9.69	13.53	3.85	ø10/15 2 br.	10.47	0.50	10270.30	2.50	22588.70	35761.60	22588.70	2.199

Relazione di calcolo

17	SLU	13.53	13.81	0.28	ø10/15 2 br.	10.47	0.50	10945.10	2.50	22588.70	35761.60	22588.70	2.064
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Travata n. 323

Nodi: -37685 -37686 -38530 -38531 -38532 -38690 -37874 -37687 -37711 -37957 -37958 -37959 -37960 -37688 3104 -37689 -38082 -38083 -38084 -38699 -38730 3105 3106 -38306 -38307 -38308 -37690

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
4	R	50.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm²>	AfE I <cm²>	AfEP S <cm²>	AfEP I <cm²>	My <daNm>	MRdy <daNm>	Sic.
0.25	17	SLU	1	25.00	18.10	18.10	18.10	18.10	747.02	15421.10	20.644
1.50	17	SLU	1	150.00	18.10	18.10	18.10	18.10	-1084.38	-15421.10	14.221
2.75	17	SLU	7	0.00	18.10	18.10	18.10	18.10	-1454.76	-15421.10	10.600
5.34	17	SLU	8	184.25	18.10	18.10	18.10	18.10	-1722.83	-15421.10	8.951
6.34	17	SLU	14	0.00	18.10	18.10	18.10	18.10	-1847.89	-15421.10	8.345
9.16	17	SLU	14	282.00	18.10	18.10	18.10	18.10	-1978.02	-15421.10	7.796
10.26	17	SLU	20	0.00	18.10	18.10	18.10	18.10	-2317.75	-15421.10	6.653
13.06	17	SLU	22	190.00	18.10	18.10	18.10	18.10	-1439.59	-15421.10	10.712

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm²>	AfE I <cm²>	AfEP S <cm²>	AfEP I <cm²>	My <daNm>	M'ydy <daNm>	Sic.
0.25	5	SND	1	25.00	18.10	18.10	18.10	18.10	14070.60	14930.50	1.061
1.50	5	SND	1	150.00	18.10	18.10	18.10	18.10	-12743.50	-14930.50	1.172
2.75	13	SND	7	0.00	18.10	18.10	18.10	18.10	-12377.00	-14930.50	1.206
5.34	5	SND	8	184.25	18.10	18.10	18.10	18.10	-12616.40	-14930.50	1.183
6.34	13	SND	14	0.00	18.10	18.10	18.10	18.10	-11144.40	-14930.50	1.340
9.16	5	SND	14	282.00	18.10	18.10	18.10	18.10	-11188.50	-14930.50	1.334
10.26	13	SND	20	0.00	18.10	18.10	18.10	18.10	-11349.70	-14930.50	1.315
13.06	5	SND	22	190.00	18.10	18.10	18.10	18.10	-10675.50	-14930.50	1.399

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cm²>	AfE I <cm²>	My <daNm>	σ _f sup <daN/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
0.25	18	SLE	R	1	25.00	18.10	538.28	-58.66	140.59	6.12
0.25	20	SLE	Q	1	25.00	18.10	526.96	-57.43	137.63	6.00
1.50	18	SLE	R	1	150.00	18.10	-776.57	202.82	-84.63	8.84
1.50	20	SLE	Q	1	150.00	18.10	-755.99	197.45	-82.39	8.60
2.75	18	SLE	R	7	0.00	18.10	-1026.23	268.03	-111.83	11.68
2.75	20	SLE	Q	7	0.00	18.10	-929.97	242.89	-101.34	10.58
5.34	18	SLE	R	8	184.25	18.10	-1238.03	323.35	-134.92	14.09
5.34	20	SLE	Q	8	184.25	18.10	-1145.40	299.15	-124.82	13.03
6.34	18	SLE	R	14	0.00	18.10	-1313.78	343.13	-143.17	14.95
6.34	20	SLE	Q	14	0.00	18.10	-1216.19	317.64	-132.53	13.84
9.16	18	SLE	R	14	282.00	18.10	-1411.90	368.76	-153.86	16.06
9.16	20	SLE	Q	14	282.00	18.10	-1280.57	334.46	-139.55	14.57
10.26	18	SLE	R	20	0.00	18.10	-1648.98	430.68	-179.70	18.76
10.26	20	SLE	Q	20	0.00	18.10	-1561.63	407.86	-170.18	17.77
13.06	18	SLE	R	22	190.00	18.10	-1027.51	268.36	-111.97	11.69
13.06	20	SLE	Q	22	190.00	18.10	-890.81	232.66	-97.08	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>	
19	0.25	20	SLE	Q	1	4	25.00	526.96	23.00	118.67	0.50	24.00	86.49	18.10	305.29	137.63	0.04	0.01
20	0.25	19	SLE	F	1	4	25.00	527.11	23.00	118.67	0.50	24.00	86.49	18.10	305.29	137.67	0.04	0.01
39	1.50	20	SLE	Q	1	4	150.00	-755.99	23.00	118.67	0.50	24.00	86.49	18.10	305.29	197.45	0.06	0.01
40	1.50	19	SLE	F	1	4	150.00	-757.57	23.00	118.67	0.50	24.00	86.49	18.10	305.29	197.86	0.06	0.01
59	2.75	20	SLE	Q	7	4	0.00	-929.97	23.00	118.67	0.50	24.00	86.49	18.10	305.29	242.89	0.07	0.01
60	2.75	19	SLE	F	7	4	0.00	-949.88	23.00	118.67	0.50	24.00	86.49	18.10	305.29	248.09	0.07	0.01
79	5.34	20	SLE	Q	8	4	184.25	-1145.40	23.00	118.67	0.50	24.00	86.49	18.10	305.29	299.15	0.09	0.01
80	5.34	19	SLE	F	8	4	184.25	-1163.24	23.00	118.67	0.50	24.00	86.49	18.10	305.29	303.81	0.09	0.01
99	6.34	20	SLE	Q	14	4	0.00	-1216.19	23.00	118.67	0.50	24.00	86.49	18.10	305.29	317.64	0.09	0.01
100	6.34	19	SLE	F	14	4	0.00	-1234.41	23.00	118.67	0.50	24.00	86.49	18.10	305.29	322.40	0.09	0.01
119	9.16	20	SLE	Q	14	4	282.00	-1280.57	23.00	118.67	0.50	24.00	86.49	18.10	305.29	334.46	0.10	0.01
120	9.16	19	SLE	F	14	4	282.00	-1307.97	23.00	118.67	0.50	24.00	86.49	18.10	305.29	341.61	0.10	0.01
139	10.26	20	SLE	Q	20	4	0.00	-1561.63	23.00	118.67	0.50	24.00	86.49	18.10	305.29	407.86	0.12	0.02
140	10.26	19	SLE	F	20	4	0.00	-1576.73	23.00	118.67	0.50	24.00	86.49	18.10	305.29	411.81	0.12	0.02
159	13.06	20	SLE	Q	22	4	190.00	-890.81	23.00	118.67	0.50	24.00	86.49	18.10	305.29	232.66	0.07	0.01
160	13.06	19	SLE	F	22	4	190.00	-920.65	23.00	118.67	0.50	24.00	86.49	18.10	305.29	240.45	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctgθ	VRsd	VRcd	Vrdu	Sic.
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	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
13 SND	0.25	0.53	0.28	ø40/15 2 br.	167.55	0.50	19899.00	1.00	144568.00	51854.30	51854.30	2.606
5 SND	0.53	1.22	0.69	ø40/15 2 br.	167.55	0.50	21190.40	1.00	144568.00	51854.30	51854.30	2.447
5 SND	1.22	1.50	0.28	ø40/15 2 br.	167.55	0.50	21809.30	1.00	144568.00	51854.30	51854.30	2.378
13 SND	2.75	3.03	0.28	ø40/15 2 br.	167.55	0.50	11622.10	1.00	144568.00	51854.30	51854.30	4.462
5 SND	3.03	5.06	2.03	ø40/15 2 br.	167.55	0.50	11169.40	1.00	144568.00	51854.30	51854.30	4.643
5 SND	5.06	5.34	0.28	ø40/15 2 br.	167.55	0.50	11788.30	1.00	144568.00	51854.30	51854.30	4.399
13 SND	6.34	6.62	0.28	ø40/15 2 br.	167.55	0.50	10127.70	1.00	144568.00	51854.30	51854.30	5.120
5 SND	6.62	8.88	2.26	ø40/15 2 br.	167.55	0.50	9554.52	1.00	144568.00	51854.30	51854.30	5.427
5 SND	8.88	9.16	0.28	ø40/15 2 br.	167.55	0.50	10173.40	1.00	144568.00	51854.30	51854.30	5.097
13 SND	10.26	10.54	0.28	ø40/15 2 br.	167.55	0.50	10324.20	1.00	144568.00	51854.30	51854.30	5.023
13 SND	10.54	12.78	2.24	ø40/15 2 br.	167.55	0.50	9705.33	1.00	144568.00	51854.30	51854.30	5.343
5 SND	12.78	13.06	0.28	ø40/15 2 br.	167.55	0.50	9845.06	1.00	144568.00	51854.30	51854.30	5.267

Travata n. 324

Nodi: 3011 -19542 -19543 -19544 -19545 3001 -19646 -19645 -19644 -28032 -19642 -19641 -19640 -19639 -19638 -19637 -19636 -19635 -19634 -19633 -19632 -19631 -19630 -19629 -28037 -19627 -19626 -19625 -665 3098 -19763 -19762 -19761 -19760 -19759 -19758 -19757 -19756 -19755 -19754 -19753 -19752 -19751 -19750 -19749 -19748 -19747 -19746 -19745 -19744 -19743 3017

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>
15	R	70.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
12	R	70.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	Afep S <cmq>	Afep I <cmq>	My <daNm>	N <daN>	MRdy <daNm>	Nu <daN>	Sic.
1.15	17	SLU	5	0.00	28.15	27.14	28.15	27.14	-260.27	0.00	-15076.90	0.00	57.927
1.95	17	SLU	9	21.36	28.15	37.20	28.15	37.20	47.96	0.00	25398.80	0.00	>100
5.76	17	SLU	25	9.87	30.16	10.05	30.16	10.05	52.72	0.00	7450.45	0.00	>100
6.56	17	SLU	29	15.69	20.11	10.05	20.11	10.05	-902.42	0.00	-14117.70	0.00	15.644
11.64	17	SLU	51	12.09	19.48	19.48	19.48	19.48	138.12	-11656.60	14720.10	-468500.00	40.192
11.75	17	SLU	51	0.00	19.48	19.48	19.48	19.48	134.14	-11677.70	14721.70	-468500.00	40.119

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	Afep S <cmq>	Afep I <cmq>	My <daNm>	N <daN>	M'ydy <daNm>	Nu <daN>	Sic.
1.15	9	SND	5	0.00	28.15	27.14	28.15	27.14	7037.74	0.00	14252.50	0.00	2.025
1.95	1	SND	9	21.36	28.15	37.20	28.15	37.20	214.46	0.00	24651.40	0.00	>100
5.76	5	SND	25	9.87	30.16	10.05	30.16	10.05	65.17	0.00	7048.47	0.00	>100
6.56	13	SND	29	15.69	20.11	10.05	20.11	10.05	3281.70	0.00	7066.80	0.00	2.153
11.64	13	SND	51	12.09	19.48	19.48	19.48	19.48	6522.97	38428.00	10066.70	38428.00	1.543
11.75	13	SND	51	0.00	19.48	19.48	19.48	19.48	6522.97	38411.80	10068.30	38411.80	1.544

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	My <daNm>	N <daN>	σ _r sup <daN/cmq>	σ _r inf <daN/cmq>	σ _c <daN/cmq>
1.15	18	SLE R	5	0.00	28.15	27.14	-193.91	0.00	50.95	-23.88	2.94
1.15	20	SLE Q	5	0.00	28.15	27.14	-156.31	0.00	41.07	-19.25	2.37
1.95	18	SLE R	9	21.36	28.15	37.20	36.16	0.00	-3.31	5.67	0.34
1.95	20	SLE Q	9	21.36	28.15	37.20	33.74	0.00	-3.09	5.29	0.32
5.76	18	SLE R	25	9.87	30.16	10.05	40.13	0.00	-3.50	22.38	0.59
5.76	20	SLE Q	25	9.87	30.16	10.05	37.38	0.00	-3.26	20.85	0.55
6.56	18	SLE R	29	15.69	20.11	10.05	-683.96	0.00	195.13	-88.82	9.82
6.56	20	SLE Q	29	15.69	20.11	10.05	-603.64	0.00	172.22	-78.39	8.67
11.64	18	SLE R	51	12.09	19.48	19.48	102.25	-8590.75	-67.52	-46.30	4.79
11.64	20	SLE Q	51	12.09	19.48	19.48	102.11	-8183.42	-64.81	-43.61	4.61
11.75	18	SLE R	51	0.00	19.48	19.48	99.34	-8606.98	-67.33	-46.71	4.77
11.75	20	SLE Q	51	0.00	19.48	19.48	99.98	-8199.65	-64.69	-43.94	4.60

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	N <daN>	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>
19	1.15	20	SLE Q	5	15	0.00	-156.31	0.00	25.22	78.00	0.50	20.36	71.29	28.15	288.19	41.07	0.01	0.00
20	1.15	19	SLE F	5	15	0.00	-165.01	0.00	25.22	78.00	0.50	20.36	71.29	28.15	288.19	43.36	0.01	0.00
47	1.95	20	SLE Q	9	12	21.36	33.74	0.00	24.82	62.40	0.50	21.14	68.51	37.20	332.05	5.29	0.00	0.00
48	1.95	19	SLE F	9	12	21.36	34.20	0.00	24.82	62.40	0.50	21.14	68.51	37.20	332.05	5.37	0.00	0.00
69	5.76	20	SLE Q	25	12	9.87	37.38	0.00	27.00	156.00	0.50	16.00	121.59	10.05	424.69	20.85	0.01	0.00
70	5.76	19	SLE F	25	12	9.87	37.90	0.00	27.00	156.00	0.50	16.00	121.59	10.05	424.69	21.14	0.01	0.00
91	6.56	20	SLE Q	29	12	15.69	-603.64	0.00	27.00	69.33	0.50	16.00	82.19	20.11	354.25	172.22	0.05	0.01
93	6.56	19	SLE F	29	12	15.69	-620.14	0.00	27.00	69.33	0.50	16.00	82.19	20.11	354.25	176.92	0.05	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.
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Relazione di calcolo

1	SND	0.06	0.93	0.91	ø10/ 9 2 br.	17.45	0.70	5248.27	2.50	25354.70	33718.00	25354.70	4.831
1	SND	0.93	1.12	0.20	ø10/ 9 2 br.	17.45	0.70	19825.20	2.50	25354.70	33718.00	25354.70	1.279
1	SND	1.91	2.14	0.24	ø10/10 2 br.	15.71	0.70	24767.40	2.50	28351.20	41892.10	28351.20	1.145
9	SND	2.14	5.50	3.50	ø10/10 2 br.	15.71	0.70	228.17	2.50	28351.20	41892.10	28351.20	>100
9	SND	5.50	5.72	0.24	ø10/10 2 br.	15.71	0.70	123.17	2.50	28351.20	41892.10	28351.20	>100
5	SND	6.60	6.67	0.08	ø10/10 2 br.	15.71	0.70	14162.10	2.50	28351.20	41892.10	28351.20	2.002
5	SND	6.74	6.97	0.24	ø10/10 2 br.	15.71	0.70	5933.75	2.50	28351.20	41892.10	28351.20	4.778
1	SND	6.97	11.56	4.84	ø10/10 2 br.	15.71	0.70	15995.10	2.50	28351.20	41892.10	28351.20	1.772
1	SND	11.56	11.79	0.24	ø10/10 2 br.	15.71	0.70	16058.40	2.50	28351.20	48995.40	28351.20	1.766

Travata n. 325

Nodi: 3025 3005 3026

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	516.00	6.03	6.03	6.03	6.03	-757.17	-5395.92	7.126
4.55	17	SLU	1	85.50	6.03	6.03	6.03	6.03	-328.48	-5395.92	16.427
5.17	17	SLU	1	24.00	6.03	6.03	6.03	6.03	-600.61	-5395.92	8.984
5.47	17	SLU	2	513.00	6.03	6.03	6.03	6.03	-1487.84	-5395.92	3.627
9.09	17	SLU	2	150.88	6.03	6.03	6.03	6.03	647.95	5395.92	8.328
10.60	17	SLU	2	0.00	6.03	6.03	6.03	6.03	-1570.49	-5395.92	3.436

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	9	SND	1	516.00	6.03	6.03	6.03	6.03	-1766.57	-5143.73	2.912
4.55	1	SND	1	85.50	6.03	6.03	6.03	6.03	-1470.71	-5143.73	3.497
5.17	1	SND	1	24.00	6.03	6.03	6.03	6.03	-1863.33	-5143.73	2.761
5.47	9	SND	2	513.00	6.03	6.03	6.03	6.03	-2646.50	-5143.73	1.944
9.09	9	SND	2	150.88	6.03	6.03	6.03	6.03	1367.38	5143.73	3.762
10.60	1	SND	2	0.00	6.03	6.03	6.03	6.03	-3078.77	-5143.73	1.671

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>
0.25	18	SLE R	1	516.00	6.03	6.03	-571.67	436.14	-106.00	13.09
0.25	20	SLE Q	1	516.00	6.03	6.03	-544.69	415.56	-101.00	12.47
4.55	18	SLE R	1	85.50	6.03	6.03	-258.14	196.94	-47.87	5.91
4.55	20	SLE Q	1	85.50	6.03	6.03	-285.10	217.51	-52.86	6.53
5.17	18	SLE R	1	24.00	6.03	6.03	-468.67	357.57	-86.90	10.73
5.17	20	SLE Q	1	24.00	6.03	6.03	-499.62	381.18	-92.64	11.44
5.47	18	SLE R	2	513.00	6.03	6.03	-1068.05	814.85	-198.05	24.46
5.47	20	SLE Q	2	513.00	6.03	6.03	-1103.84	842.15	-204.68	25.28
9.09	18	SLE R	2	150.88	6.03	6.03	472.19	-87.56	360.25	10.81
9.09	20	SLE Q	2	150.88	6.03	6.03	482.36	-89.44	368.00	11.05
10.60	18	SLE R	2	0.00	6.03	6.03	-1121.18	855.38	-207.90	25.67
10.60	20	SLE Q	2	0.00	6.03	6.03	-1087.92	830.00	-201.73	24.91

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>
19	0.25	20	SLE Q	1	3	516.00	-544.69	27.00	164.00	0.50	16.00	126.13	6.03	271.92	415.56	0.12	0.03
20	0.25	19	SLE F	1	3	516.00	-551.04	27.00	164.00	0.50	16.00	126.13	6.03	271.92	420.41	0.12	0.03
41	4.55	20	SLE Q	1	3	85.50	-285.10	27.00	164.00	0.50	16.00	126.13	6.03	271.92	217.51	0.06	0.01
42	4.55	19	SLE F	1	3	85.50	-278.73	27.00	164.00	0.50	16.00	126.13	6.03	271.92	212.66	0.06	0.01
63	5.17	20	SLE Q	1	3	24.00	-499.62	27.00	164.00	0.50	16.00	126.13	6.03	271.92	381.18	0.11	0.02
64	5.17	19	SLE F	1	3	24.00	-492.32	27.00	164.00	0.50	16.00	126.13	6.03	271.92	375.61	0.11	0.02
85	5.47	20	SLE Q	2	3	513.00	-1103.84	27.00	164.00	0.50	16.00	126.13	6.03	271.92	842.15	0.25	0.05
86	5.47	19	SLE F	2	3	513.00	-1094.46	27.00	164.00	0.50	16.00	126.13	6.03	271.92	835.00	0.24	0.05
107	9.09	20	SLE Q	2	3	150.88	482.36	27.00	164.00	0.50	16.00	126.13	6.03	271.92	368.00	0.11	0.02
108	9.09	19	SLE F	2	3	150.88	479.71	27.00	164.00	0.50	16.00	126.13	6.03	271.92	365.99	0.11	0.02
127	10.60	20	SLE Q	2	3	0.00	-1087.92	27.00	164.00	0.50	16.00	126.13	6.03	271.92	830.00	0.24	0.05
128	10.60	19	SLE F	2	3	0.00	-1096.61	27.00	164.00	0.50	16.00	126.13	6.03	271.92	836.64	0.24	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.
9 SND	0.25	0.53	0.28	ø8/15 2 br.	6.70	0.40	1223.11	2.50	14456.80	28609.20	14456.80	11.820
9 SND	0.53	4.88	4.35	ø8/15 2 br.	6.70	0.40	1144.71	2.50	14456.80	28609.20	14456.80	12.629
1 SND	4.88	5.16	0.28	ø8/15 2 br.	6.70	0.40	1201.99	2.50	14456.80	28609.20	14456.80	12.027
9 SND	5.66	5.94	0.28	ø8/15 2 br.	6.70	0.40	2147.13	2.50	14456.80	28609.20	14456.80	6.733

Relazione di calcolo

9 SND	5.94	10.32	4.38	ø8/15 2 br.	6.70	0.40	1932.73	2.50	14456.80	28609.20	14456.80	7.480
1 SND	10.32	10.60	0.28	ø8/15 2 br.	6.70	0.40	1847.09	2.50	14456.80	28609.20	14456.80	7.827

Travata n. 328

Nodi: 3035 -32874 -32873 -27241 -32872 -32871 -32676 -33606 -33605 3038 -33604 -33603 3039 -35196 -34926 -26889 3041 -12258 -12257 -12256 -12255 -12254 3042 3043 -611 -612 3044

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>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	112.14	9.42	9.42	9.42	9.42	2442.39	8192.95	3.354
1.37	17	SLU	1	0.00	9.42	9.42	9.42	9.42	-2450.30	-8192.95	3.344
2.55	17	SLU	7	236.43	9.42	9.42	9.42	9.42	-1091.10	-8192.95	7.509
4.91	17	SLU	7	0.00	9.42	9.42	9.42	9.42	576.46	8192.95	14.213
6.01	17	SLU	13	249.27	9.42	9.42	9.42	9.42	380.83	8192.95	21.514
8.50	17	SLU	13	0.00	9.42	9.42	9.42	9.42	-881.15	-8192.95	9.298
10.85	17	SLU	24	91.00	9.42	9.42	9.42	9.42	-912.12	-8192.95	8.982

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	1	SND	1	112.14	9.42	9.42	9.42	9.42	4475.87	7893.54	1.764
1.37	1	SND	1	0.00	9.42	9.42	9.42	9.42	-6946.34	-7893.54	1.136
2.55	9	SND	7	236.43	9.42	9.42	9.42	9.42	-5285.69	-7893.54	1.493
4.91	9	SND	7	0.00	9.42	9.42	9.42	9.42	4244.71	7893.54	1.860
6.01	1	SND	13	249.27	9.42	9.42	9.42	9.42	5056.99	7893.54	1.561
8.50	1	SND	13	0.00	9.42	9.42	9.42	9.42	-6003.43	-7893.54	1.315
10.85	9	SND	24	91.00	9.42	9.42	9.42	9.42	-5808.61	-7893.54	1.359

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>
0.25	18	SLE R	1	112.14	9.42	9.42	1780.16	-288.56	882.24	32.25
0.25	20	SLE Q	1	112.14	9.42	9.42	1617.26	-262.16	801.51	29.30
1.37	18	SLE R	1	0.00	9.42	9.42	-1780.64	882.48	-288.64	32.26
1.37	20	SLE Q	1	0.00	9.42	9.42	-1611.07	798.44	-261.15	29.18
2.55	18	SLE R	7	236.43	9.42	9.42	-788.88	390.96	-127.88	14.29
2.55	20	SLE Q	7	236.43	9.42	9.42	-696.42	345.14	-112.89	12.62
4.91	18	SLE R	7	0.00	9.42	9.42	419.00	-67.92	207.66	7.59
4.91	20	SLE Q	7	0.00	9.42	9.42	336.78	-54.59	166.91	6.10
6.01	18	SLE R	13	249.27	9.42	9.42	276.69	-44.85	137.12	5.01
6.01	20	SLE Q	13	249.27	9.42	9.42	207.09	-33.57	102.63	3.75
8.50	18	SLE R	13	0.00	9.42	9.42	-629.40	311.93	-102.03	11.40
8.50	20	SLE Q	13	0.00	9.42	9.42	-552.30	273.72	-89.53	10.00
10.85	18	SLE R	24	91.00	9.42	9.42	-666.35	330.24	-108.02	12.07
10.85	20	SLE Q	24	91.00	9.42	9.42	-590.05	292.43	-95.65	10.69

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>
24	0.25	20	SLE Q	1	3	112.14	1617.26	25.00	162.00	0.50	20.00	104.68	9.42	257.66	801.51	0.23	0.04
25	0.25	19	SLE F	1	3	112.14	1657.41	25.00	162.00	0.50	20.00	104.68	9.42	257.66	821.41	0.24	0.04
44	1.37	20	SLE Q	1	3	0.00	-1611.07	25.00	162.00	0.50	20.00	104.68	9.42	257.66	798.44	0.23	0.04
45	1.37	19	SLE F	1	3	0.00	-1652.63	25.00	162.00	0.50	20.00	104.68	9.42	257.66	819.04	0.24	0.04
64	2.55	20	SLE Q	7	3	236.43	-696.42	25.00	162.00	0.50	20.00	104.68	9.42	257.66	345.14	0.10	0.02
65	2.55	19	SLE F	7	3	236.43	-719.26	25.00	162.00	0.50	20.00	104.68	9.42	257.66	356.46	0.10	0.02
84	4.91	20	SLE Q	7	3	0.00	336.78	25.00	162.00	0.50	20.00	104.68	9.42	257.66	166.91	0.05	0.01
85	4.91	19	SLE F	7	3	0.00	357.21	25.00	162.00	0.50	20.00	104.68	9.42	257.66	177.03	0.05	0.01
104	6.01	20	SLE Q	13	3	249.27	207.09	25.00	162.00	0.50	20.00	104.68	9.42	257.66	102.63	0.03	0.01
105	6.01	19	SLE F	13	3	249.27	224.60	25.00	162.00	0.50	20.00	104.68	9.42	257.66	111.31	0.03	0.01
124	8.50	20	SLE Q	13	3	0.00	-552.30	25.00	162.00	0.50	20.00	104.68	9.42	257.66	273.72	0.08	0.01
125	8.50	19	SLE F	13	3	0.00	-571.97	25.00	162.00	0.50	20.00	104.68	9.42	257.66	283.46	0.08	0.01
144	10.85	20	SLE Q	24	3	91.00	-590.05	25.00	162.00	0.50	20.00	104.68	9.42	257.66	292.43	0.09	0.02
145	10.85	19	SLE F	24	3	91.00	-607.75	25.00	162.00	0.50	20.00	104.68	9.42	257.66	301.20	0.09	0.02

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff. <cmq/m>	Afe St. <cmq/m>	bw <m>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SND	0.25	0.53	0.28	ø8/15 2 br.	6.70	0.40	9721.43	2.50	14456.80	28609.20	14456.80	1.487
1 SND	0.53	1.09	0.56	ø8/15 2 br.	6.70	0.40	9920.38	2.50	14456.80	28609.20	14456.80	1.457
1 SND	1.09	1.37	0.28	ø8/15 2 br.	6.70	0.40	10030.40	2.50	14456.80	28609.20	14456.80	1.441
9 SND	2.55	2.83	0.28	ø8/15 2 br.	6.70	0.40	4560.27	2.50	14456.80	28609.20	14456.80	3.170

Relazione di calcolo

9 SND	2.83	4.63	1.80	ø8/15 2 br.	6.70	0.40	4412.89	2.50	14456.80	28609.20	14456.80	3.276
1 SND	4.63	4.91	0.28	ø8/15 2 br.	6.70	0.40	3864.77	2.50	14456.80	28609.20	14456.80	3.741
9 SND	6.01	6.29	0.28	ø8/15 2 br.	6.70	0.40	4587.13	2.50	14456.80	28609.20	14456.80	3.152
1 SND	6.29	8.22	1.93	ø8/15 2 br.	6.70	0.40	4829.13	2.50	14456.80	28609.20	14456.80	2.994
1 SND	8.22	8.50	0.28	ø8/15 2 br.	6.70	0.40	4970.92	2.50	14456.80	28609.20	14456.80	2.908
9 SND	10.85	11.13	0.28	ø8/15 2 br.	6.70	0.40	5416.70	2.50	14456.80	28609.20	14456.80	2.669
9 SND	11.13	14.08	2.95	ø8/15 2 br.	6.70	0.40	5134.66	2.50	14456.80	28609.20	14456.80	2.816

Travata n. 332

Nodi: 3073 3010 3074 -36338 -36337 -36336 -36335 -36334 -36333 -616 -36332 3076 -36331 -36330 -36329 -36328 -36327 -36326 -36325 3078

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
5.76	17	SLU	1	25.00	6.03	6.03	6.03	6.03	-953.69	-5395.92	5.658
6.26	17	SLU	2	434.00	6.03	6.03	6.03	6.03	-214.37	-5395.92	25.172
10.41	17	SLU	2	18.55	6.03	6.03	6.03	6.03	-834.26	-5395.92	6.468
10.60	17	SLU	2	0.00	12.06	12.06	12.06	12.06	-834.26	-10357.90	12.416

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
5.76	9	SND	1	25.00	6.03	6.03	6.03	6.03	-1429.44	-5143.73	3.598
6.26	1	SND	2	434.00	6.03	6.03	6.03	6.03	-2484.72	-5143.73	2.070
10.41	9	SND	2	18.55	6.03	6.03	6.03	6.03	-3250.38	-5143.73	1.583
10.60	9	SND	2	0.00	12.06	12.06	12.06	12.06	-3250.38	-10012.90	3.081

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/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
5.76	18	SLE R	1	25.00	6.03	6.03	-736.62	561.99	-136.59	16.87
5.76	20	SLE Q	1	25.00	6.03	6.03	-749.92	572.14	-139.06	17.17
6.26	18	SLE R	2	434.00	6.03	6.03	-185.53	141.55	-34.40	4.25
6.26	20	SLE Q	2	434.00	6.03	6.03	-235.92	179.99	-43.75	5.40
10.41	18	SLE R	2	18.55	6.03	6.03	-622.84	475.18	-115.49	14.26
10.41	20	SLE Q	2	18.55	6.03	6.03	-577.81	440.83	-107.14	13.23
10.60	18	SLE R	2	0.00	12.06	12.06	-622.84	242.88	-91.81	9.84
10.60	20	SLE Q	2	0.00	12.06	12.06	-577.81	225.32	-85.18	9.13

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/cm²>	ε _{sm}	Wk <mm>
21	5.76	20	SLE Q	1	3	25.00	-749.92	27.00	164.00	0.50	16.00	126.13	6.03	271.92	572.14	0.17	0.04
22	5.76	19	SLE F	1	3	25.00	-746.21	27.00	164.00	0.50	16.00	126.13	6.03	271.92	569.30	0.17	0.04
41	6.26	20	SLE Q	2	3	434.00	-235.92	27.00	164.00	0.50	16.00	126.13	6.03	271.92	179.99	0.05	0.01
42	6.26	19	SLE F	2	3	434.00	-223.13	27.00	164.00	0.50	16.00	126.13	6.03	271.92	170.24	0.05	0.01
61	10.41	20	SLE Q	2	3	18.55	-577.81	27.00	164.00	0.50	16.00	126.13	6.03	271.92	440.83	0.13	0.03
62	10.41	19	SLE F	2	3	18.55	-589.55	27.00	164.00	0.50	16.00	126.13	6.03	271.92	449.79	0.13	0.03
81	10.60	20	SLE Q	2	3	0.00	-577.81	27.00	65.60	0.50	16.00	87.14	12.06	249.86	225.32	0.07	0.01
82	10.60	19	SLE F	2	3	0.00	-589.55	27.00	65.60	0.50	16.00	87.14	12.06	249.86	229.90	0.07	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. <cmq/m>	bw <mm>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
17 SLU	0.04	5.48	5.44	ø8/15 2 br.	6.70	0.40	1041.64	2.50	14456.80	28609.20	14456.80	13.879
17 SLU	5.48	5.76	0.28	ø8/15 2 br.	6.70	0.40	1041.89	2.50	14456.80	28609.20	14456.80	13.876
1 SND	6.26	6.54	0.28	ø8/15 2 br.	6.70	0.40	1662.70	2.50	14456.80	28609.20	14456.80	8.695
9 SND	6.54	10.32	3.78	ø8/15 2 br.	6.70	0.40	1741.85	2.50	14456.80	28609.20	14456.80	8.300
9 SND	10.32	10.60	0.28	ø8/15 2 br.	6.70	0.40	1820.25	2.50	14456.80	28609.20	14456.80	7.942

Travata n. 334

Nodi: 3083 3084 -25143 -25142 -24942 -25117 3086 -625 3087 -25400 -25399 -10620 -29029 -627 -33006 -33005 -29031 -29136 -24938 -25724 -25723 3091 -629 3092 -26044 -630 -26081 3093 -26106 3094 -37690

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
3R		40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	466.00	6.03	6.03	6.03	6.03	-977.09	-5395.92	5.522
2.94	17	SLU	1	196.80	6.03	6.03	6.03	6.03	843.94	5395.92	6.394
4.91	17	SLU	1	0.00	6.03	6.03	6.03	6.03	-1392.48	-5395.92	3.875
6.01	17	SLU	7	309.00	6.03	6.03	6.03	6.03	-1397.56	-5395.92	3.861
11.16	17	SLU	9	0.00	14.07	14.07	14.07	14.07	-1818.02	-12007.40	6.605
13.56	17	SLU	21	56.00	8.04	8.04	8.04	8.04	-4566.81	-7055.05	1.545
16.23	17	SLU	23	273.27	8.04	8.04	8.04	8.04	2473.56	7055.05	2.852
18.96	17	SLU	23	0.00	14.07	14.07	14.07	14.07	-3834.65	-12007.40	3.131
20.06	17	SLU	30	467.14	14.07	14.07	14.07	14.07	-2553.72	-12007.40	4.702
23.53	17	SLU	30	119.75	6.03	6.03	6.03	6.03	962.06	5395.92	5.609
24.48	17	SLU	30	25.00	6.03	6.03	6.03	6.03	-1637.53	-5395.92	3.295

Stato limite elastico - 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>	M' ydy <daNm>	Sic.
0.25	1	SND	1	466.00	6.03	6.03	6.03	6.03	-1254.15	-5143.73	4.101
2.94	1	SND	1	196.80	6.03	6.03	6.03	6.03	923.90	5143.73	5.567
4.91	9	SND	1	0.00	6.03	6.03	6.03	6.03	-1893.20	-5143.73	2.717
6.01	1	SND	7	309.00	6.03	6.03	6.03	6.03	-2010.14	-5143.73	2.559
11.16	9	SND	9	0.00	14.07	14.07	14.07	14.07	-7520.61	-11622.90	1.545
13.56	1	SND	21	56.00	8.04	8.04	8.04	8.04	-5260.20	-6777.42	1.288
16.23	9	SND	23	273.27	8.04	8.04	8.04	8.04	2089.54	6777.42	3.244
18.96	9	SND	23	0.00	14.07	14.07	14.07	14.07	-5086.95	-11622.90	2.285
20.06	1	SND	30	467.14	14.07	14.07	14.07	14.07	-4623.00	-11622.90	2.514
23.53	1	SND	30	119.75	6.03	6.03	6.03	6.03	2397.61	5143.73	2.145
24.48	9	SND	30	25.00	6.03	6.03	6.03	6.03	-4199.34	-5143.73	1.225

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>
0.25	18	SLE R	1	466.00	6.03	6.03	-704.72	537.65	-130.67	16.14
0.25	20	SLE Q	1	466.00	6.03	6.03	-712.42	543.53	-132.10	16.31
2.94	18	SLE R	1	196.80	6.03	6.03	606.25	-112.42	462.53	13.88
2.94	20	SLE Q	1	196.80	6.03	6.03	607.42	-112.63	463.42	13.91
4.91	18	SLE R	1	0.00	6.03	6.03	-997.49	761.01	-184.96	22.84
4.91	20	SLE Q	1	0.00	6.03	6.03	-988.29	754.00	-183.26	22.63
6.01	18	SLE R	7	309.00	6.03	6.03	-1002.60	764.91	-185.91	22.96
6.01	20	SLE Q	7	309.00	6.03	6.03	-993.60	758.05	-184.24	22.75
11.16	18	SLE R	9	0.00	14.07	14.07	-1300.88	436.54	-179.47	18.81
11.16	20	SLE Q	9	0.00	14.07	14.07	-1162.33	390.05	-160.35	16.81
13.56	18	SLE R	21	56.00	8.04	8.04	-3208.02	1853.78	-548.61	63.27
13.56	20	SLE Q	21	56.00	8.04	8.04	-3072.10	1775.24	-525.37	60.59
16.23	18	SLE R	23	273.27	8.04	8.04	1717.73	-293.75	992.61	33.88
16.23	20	SLE Q	23	273.27	8.04	8.04	1698.98	-290.55	981.77	33.51
18.96	18	SLE R	23	0.00	14.07	14.07	-2666.50	894.81	-367.87	38.55
18.96	20	SLE Q	23	0.00	14.07	14.07	-2632.30	883.33	-363.15	38.06
20.06	18	SLE R	30	467.14	14.07	14.07	-1782.30	598.09	-245.88	25.77
20.06	20	SLE Q	30	467.14	14.07	14.07	-1782.75	598.24	-245.94	25.78
23.53	18	SLE R	30	119.75	6.03	6.03	679.17	-125.94	518.16	15.55
23.53	20	SLE Q	30	119.75	6.03	6.03	679.66	-126.03	518.54	15.56
24.48	18	SLE R	30	25.00	6.03	6.03	-1114.60	850.37	-206.68	25.52
24.48	20	SLE Q	30	25.00	6.03	6.03	-1113.82	849.77	-206.53	25.51

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>
20	0.25	20	SLE Q	1	3	466.00	-712.42	27.00	162.00	0.50	16.00	126.13	6.03	271.92	543.53	0.16	0.03
21	0.25	19	SLE F	1	3	466.00	-710.38	27.00	162.00	0.50	16.00	126.13	6.03	271.92	541.97	0.16	0.03
40	2.94	20	SLE Q	1	3	196.80	607.42	27.00	162.00	0.50	16.00	126.13	6.03	271.92	463.42	0.13	0.03
41	2.94	19	SLE F	1	3	196.80	607.11	27.00	162.00	0.50	16.00	126.13	6.03	271.92	463.18	0.13	0.03
63	4.91	20	SLE Q	1	3	0.00	-988.29	27.00	162.00	0.50	16.00	126.13	6.03	271.92	754.00	0.22	0.05
64	4.91	19	SLE F	1	3	0.00	-990.72	27.00	162.00	0.50	16.00	126.13	6.03	271.92	755.85	0.22	0.05
85	6.01	20	SLE Q	7	3	309.00	-993.60	27.00	162.00	0.50	16.00	126.13	6.03	271.92	758.05	0.22	0.05
86	6.01	19	SLE F	7	3	309.00	-995.35	27.00	162.00	0.50	16.00	126.13	6.03	271.92	759.38	0.22	0.05
108	11.16	20	SLE Q	9	3	0.00	-1162.33	27.00	54.00	0.50	16.00	81.86	14.07	245.09	390.05	0.11	0.02
110	11.16	19	SLE F	9	3	0.00	-1190.32	27.00	54.00	0.50	16.00	81.86	14.07	245.09	399.44	0.12	0.02
132	13.56	20	SLE Q	21	3	56.00	-3072.10	27.00	108.00	0.50	16.00	106.27	8.04	262.73	1775.24	0.63	0.11
133	13.56	19	SLE F	21	3	56.00	-3099.28	27.00	108.00	0.50	16.00	106.27	8.04	262.73	1790.95	0.52	0.09
152	16.23	20	SLE Q	23	3	273.27	1698.98	27.00	108.00	0.50	16.00	106.27	8.04	262.73	981.77	0.29	0.05
153	16.23	19	SLE F	23	3	273.27	1702.76	27.00	108.00	0.50	16.00	106.27	8.04	262.73	983.95	0.29	0.05
175	18.96	20	SLE Q	23	3	0.00	-2632.30	27.00	54.00	0.50	16.00	81.86	14.07	245.09	883.33	0.29	0.04
176	18.96	19	SLE F	23	3	0.00	-2639.44	27.00	54.00	0.50	16.00	81.86	14.07	245.09	885.73	0.26	0.04
197	20.06	20	SLE Q	30	3	467.14	-1782.75	27.00	54.00	0.50	16.00	81.86	14.07	245.09	598.24	0.17	0.02
198	20.06	19	SLE F	30	3	467.14	-1782.79	27.00	54.00	0.50	16.00	81.86	14.07	245.09	598.26	0.17	0.02
221	23.53	20	SLE Q	30	3	119.75	679.66	27.00	162.00	0.50	16.00	126.13	6.03	271.92	518.54	0.15	0.03
223	23.53	19	SLE F	30	3	119.75	679.64	27.00	162.00	0.50	16.00	126.13	6.03	271.92	518.52	0.15	0.03

Relazione di calcolo

243	24.48	20	SLE Q	30	3	25.00	-1113.82	27.00	162.00	0.50	16.00	126.13	6.03	271.92	849.77	0.25	0.05
244	24.48	19	SLE F	30	3	25.00	-1113.83	27.00	162.00	0.50	16.00	126.13	6.03	271.92	849.78	0.25	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.
17 SLU	0.25	0.53	0.28	ø10/15 2 br.	10.47	0.40	1337.10	2.50	22588.70	28609.20	22588.70	16.894
17 SLU	0.53	4.63	4.10	ø10/15 2 br.	10.47	0.40	1727.67	2.50	22588.70	28609.20	22588.70	13.075
17 SLU	4.63	4.91	0.28	ø10/15 2 br.	10.47	0.40	2013.35	2.50	22588.70	28609.20	22588.70	11.220
17 SLU	6.01	6.29	0.28	ø10/15 2 br.	10.47	0.40	2031.42	2.50	22588.70	28609.20	22588.70	11.120
9 SND	6.29	10.88	4.59	ø10/15 2 br.	10.47	0.40	18626.70	2.50	22588.70	28609.20	22588.70	1.213
9 SND	10.88	11.16	0.28	ø10/15 2 br.	10.47	0.40	19247.20	2.50	22588.70	28609.20	22588.70	1.174
17 SLU	13.56	13.84	0.28	ø10/15 2 br.	10.47	0.40	8743.56	2.50	22588.70	28609.20	22588.70	2.583
17 SLU	13.84	18.68	4.84	ø10/15 2 br.	10.47	0.40	7923.68	2.50	22588.70	28609.20	22588.70	2.851
17 SLU	18.68	18.96	0.28	ø10/15 2 br.	10.47	0.40	4632.14	2.50	22588.70	28609.20	22588.70	4.877
1 SND	20.06	20.34	0.28	ø10/15 2 br.	10.47	0.40	3916.29	2.50	22588.70	28609.20	22588.70	5.768
1 SND	20.34	24.20	3.86	ø10/15 2 br.	10.47	0.40	3568.16	2.50	22588.70	28609.20	22588.70	6.331
9 SND	24.20	24.48	0.28	ø10/15 2 br.	10.47	0.40	3256.18	2.50	22588.70	28609.20	22588.70	6.937

Travata n. 347

Nodi: 3003 -38797 -37685

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
3R	40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.42	17	SLU	1	222.00	9.42	9.42	9.42	9.42	-2278.63	-8192.95	3.596
4.25	17	SLU	2	80.00	9.42	9.42	9.42	9.42	-1074.07	-8192.95	7.628

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.42	9	SND	1	222.00	9.42	9.42	9.42	9.42	-7284.07	-7893.54	1.084
4.25	1	SND	2	80.00	9.42	9.42	9.42	9.42	-6629.12	-7893.54	1.191

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/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
0.42	18	SLE R	1	222.00	9.42	9.42	-1598.79	792.36	-259.17	28.96
0.42	20	SLE Q	1	222.00	9.42	9.42	-1606.25	796.05	-260.37	29.10
4.25	18	SLE R	2	80.00	9.42	9.42	-716.06	354.88	-116.07	12.97
4.25	20	SLE Q	2	80.00	9.42	9.42	-708.38	351.07	-114.83	12.83

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 off} <cmq>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
19	0.42	20	SLE Q	1	3	222.00	-1606.25	25.00	162.00	0.50	20.00	104.68	9.42	257.66	796.05	0.23	0.04
20	0.42	19	SLE F	1	3	222.00	-1604.55	25.00	162.00	0.50	20.00	104.68	9.42	257.66	795.21	0.23	0.04
39	4.25	20	SLE Q	2	3	80.00	-708.38	25.00	162.00	0.50	20.00	104.68	9.42	257.66	351.07	0.10	0.02
40	4.25	19	SLE F	2	3	80.00	-710.16	25.00	162.00	0.50	20.00	104.68	9.42	257.66	351.95	0.10	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.
9 SND	0.42	0.70	0.28	ø8/15 2 br.	6.70	0.40	5395.44	2.50	14456.80	28609.20	14456.80	2.679
9 SND	0.70	3.97	3.27	ø8/15 2 br.	6.70	0.40	5048.54	2.50	14456.80	28609.20	14456.80	2.864
1 SND	3.97	4.25	0.28	ø8/15 2 br.	6.70	0.40	4658.28	2.50	14456.80	28609.20	14456.80	3.103

Travata n. 348

Nodi: 3027 3006 -37686

Caratteristiche delle sezioni e dei materiali utilizzati

Sez. Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
3R	40.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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	17	SLU	1	556.00	8.04	6.03	8.04	6.03	-3222.29	-7056.24	2.190
1.24	17	SLU	1	432.50	8.04	6.03	8.04	6.03	1026.41	5395.16	5.256
4.94	17	SLU	1	62.00	8.04	6.03	8.04	6.03	-2578.31	-7056.24	2.737

5.44	17	SLU	1	12.00	8.04	6.03	8.04	6.03	-2578.31	-7056.24	2.737
10.36	17	SLU	2	25.00	8.04	6.03	8.04	6.03	-562.37	-7056.24	12.547

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.00	9	SND	1	556.00	8.04	6.03	8.04	6.03	-5582.82	-6766.82	1.212
1.24	1	SND	1	432.50	8.04	6.03	8.04	6.03	2296.14	5144.72	2.241
4.94	1	SND	1	62.00	8.04	6.03	8.04	6.03	-4796.43	-6766.82	1.411
5.44	1	SND	1	12.00	8.04	6.03	8.04	6.03	-4796.43	-6766.82	1.411
10.36	9	SND	2	25.00	8.04	6.03	8.04	6.03	3469.92	5144.72	1.483

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	18	SLE R	1	556.00	8.04	6.03	-2232.01	1291.25	-409.83	46.22
0.00	20	SLE Q	1	556.00	8.04	6.03	-2208.41	1277.60	-405.50	45.73
1.24	18	SLE R	1	432.50	8.04	6.03	706.80	-121.57	539.22	15.45
1.24	20	SLE Q	1	432.50	8.04	6.03	717.83	-123.46	547.63	15.69
4.94	18	SLE R	1	62.00	8.04	6.03	-1777.86	1028.52	-326.44	36.82
4.94	20	SLE Q	1	62.00	8.04	6.03	-1798.64	1040.54	-330.26	37.25
5.44	18	SLE R	1	12.00	8.04	6.03	-1777.86	1028.52	-326.44	36.82
5.44	20	SLE Q	1	12.00	8.04	6.03	-1798.64	1040.54	-330.26	37.25
10.36	18	SLE R	2	25.00	8.04	6.03	-421.46	243.82	-77.39	8.73
10.36	20	SLE Q	2	25.00	8.04	6.03	-385.10	222.79	-70.71	7.98

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>
21	0.00	20	SLE Q	1	3	556.00	-2208.41	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1277.60	0.39	0.07
22	0.00	19	SLE F	1	3	556.00	-2214.81	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1281.31	0.37	0.07
46	1.24	20	SLE Q	1	3	432.50	717.83	27.00	164.00	0.50	16.00	126.99	6.03	275.15	547.63	0.16	0.03
48	1.24	19	SLE F	1	3	432.50	714.92	27.00	164.00	0.50	16.00	126.99	6.03	275.15	545.41	0.16	0.03
69	4.94	20	SLE Q	1	3	62.00	-1798.64	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1040.54	0.30	0.05
70	4.94	19	SLE F	1	3	62.00	-1792.75	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1037.14	0.30	0.05
89	5.44	20	SLE Q	1	3	12.00	-1798.64	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1040.54	0.30	0.05
90	5.44	19	SLE F	1	3	12.00	-1792.75	27.00	109.33	0.50	16.00	105.57	8.04	259.21	1037.14	0.30	0.05
109	10.36	20	SLE Q	2	3	25.00	-385.10	27.00	109.33	0.50	16.00	105.57	8.04	259.21	222.79	0.06	0.01
110	10.36	19	SLE F	2	3	25.00	-394.07	27.00	109.33	0.50	16.00	105.57	8.04	259.21	227.98	0.07	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.
9 SND	0.00	0.28	0.28	ø8/15 2 br.	6.70	0.40	3874.68	2.50	14456.80	28609.20	14456.80	3.731
1 SND	0.28	4.66	4.38	ø8/15 2 br.	6.70	0.40	3700.97	2.50	14456.80	28609.20	14456.80	3.906
1 SND	4.66	4.94	0.28	ø8/15 2 br.	6.70	0.40	4061.40	2.50	14456.80	28609.20	14456.80	3.560
1 SND	5.44	5.72	0.28	ø8/15 2 br.	6.70	0.40	4061.40	2.50	14456.80	28609.20	14456.80	3.560
9 SND	5.72	10.08	4.36	ø8/15 2 br.	6.70	0.40	2119.86	2.50	14456.80	28609.20	14456.80	6.820
1 SND	10.08	10.36	0.28	ø8/15 2 br.	6.70	0.40	2024.07	2.50	14456.80	28609.20	14456.80	7.142

Risulta impossibile individuare correttamente le zone di staffatura

Verifiche non effettuabili

Risulta impossibile individuare correttamente le zone di staffatura

Verifiche non effettuabili

Travata n. 421

Nodi: -701 -20578 -20579 -20580 -20581 4071 4072 4073 4074 4075 -20809 -20810 -20811 -20812 -702

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>
16	R	80.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
9	R	80.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
10	R	50.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
14.96	17	SLU	9	453.00	8.04	8.04	8.04	8.04	-3273.31	-5902.26	1.803
15.21	17	SLU	10	0.00	20.11	12.06	20.11	12.06	-567.68	-11113.30	19.577

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
14.96	5	SND	9	453.00	8.04	8.04	8.04	8.04	-2853.20	-5635.46	1.975
15.21	1	SND	10	0.00	20.11	12.06	20.11	12.06	-576.35	-10772.10	18.690

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>
14.96	18	SLE R	9	453.00	8.04	8.04	-2427.64	1688.64	-432.84	57.97
14.96	20	SLE Q	9	453.00	8.04	8.04	-2042.89	1421.01	-364.24	48.79
15.21	18	SLE R	10	0.00	20.11	12.06	-422.75	152.17	-61.88	7.97
15.21	20	SLE Q	10	0.00	20.11	12.06	-352.60	126.92	-51.61	6.65

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>
19	14.96	20	SLE Q	9	10	453.00	-2042.89	27.00	141.33	0.50	16.00	110.47	8.04	283.86	1421.01	0.44	0.08
20	14.96	19	SLE F	9	10	453.00	-2122.81	27.00	141.33	0.50	16.00	110.47	8.04	283.86	1476.60	0.43	0.08
39	15.21	20	SLE Q	10	16	0.00	-352.60	27.00	80.44	0.50	16.00	81.04	20.11	339.78	126.92	0.04	0.01
40	15.21	19	SLE F	10	16	0.00	-367.52	27.00	80.44	0.50	16.00	81.04	20.11	339.78	132.29	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>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1 SND	0.04	0.95	0.91	ø10/10 2 br.	15.71	0.80	924.08	2.50	22819.20	38534.90	22819.20	24.694
1 SND	0.95	1.15	0.20	ø10/10 2 br.	15.71	0.80	999.25	2.50	22819.20	38534.90	22819.20	22.836
17 SLU	1.15	2.41	1.26	ø10/10 2 br.	15.71	0.80	3785.40	2.50	28351.20	47876.70	28351.20	7.490
5 SND	2.41	2.65	0.24	ø10/10 2 br.	15.71	0.80	1661.44	2.50	28351.20	47876.70	28351.20	17.064
17 SLU	2.65	14.72	12.07	ø10/10 2 br.	15.71	0.50	4486.42	2.50	28351.20	29922.90	28351.20	6.319
17 SLU	14.72	14.96	0.24	ø10/10 2 br.	15.71	0.50	4339.48	2.50	28351.20	29922.90	28351.20	6.533
1 SND	15.21	15.41	0.20	ø10/10 2 br.	15.71	0.80	1443.66	2.50	22819.20	38534.90	22819.20	15.806
1 SND	15.41	16.32	0.91	ø10/10 2 br.	15.71	0.80	1368.49	2.50	22819.20	38534.90	22819.20	16.675

Travata n. 423

Nodi: -21378 -21379 -21380 -21381 -21382 4093 -38786 -38785 -38784 -38783 -38782 -38792 -38689 -38688 -38687 -38686 -38685 -38684 -38683 4082 -38767 -38766 -38765 -38764 -38763 -38762 -38761 -38759 -38768 -38769 -38772 -38773 -38793 -38752 -38751 -38750 -38749 -38748 -38747 -38746 -38745 -38744 -38743 -38742 4086 -38794 -38694 -38693 4089 -38695 4088 -38697 -38696 4085 -38741 -38740 -38739 -38738 -38737 -38736 -38735 4084 -38703 -38702 -38701 -38795 -20880 -20881 -20882 -20883 -20840

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>
13R		50.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
10R		50.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cmq>	Afe I <cmq>	AfeP S <cmq>	AfeP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.15	17	SLU	5	23.00	12.57	9.42	12.57	9.42	-604.50	-6948.83	11.495
1.40	17	SLU	7	0.00	12.57	12.57	12.57	12.57	-66.52	-8919.41	>100
2.52	17	SLU	11	12.50	12.57	12.57	12.57	12.57	-389.43	-8919.41	22.904
2.65	17	SLU	11	25.00	12.57	12.57	12.57	12.57	-389.43	-8919.41	22.904
3.90	17	SLU	17	0.00	12.57	12.57	12.57	12.57	-573.25	-8919.41	15.559
6.49	17	SLU	27	18.58	12.57	12.57	12.57	12.57	-764.88	-8919.41	11.661
7.49	17	SLU	33	0.00	12.57	12.57	12.57	12.57	-666.78	-8919.41	13.377
10.13	17	SLU	44	5.25	25.13	25.13	25.13	25.13	-773.71	-17249.00	22.294
10.31	17	SLU	44	23.50	25.13	25.13	25.13	25.13	-773.71	-17249.00	22.294
11.41	17	SLU	50	0.00	12.57	25.13	12.57	25.13	-1051.44	-8916.02	8.480
13.99	17	SLU	61	2.00	12.57	12.57	12.57	12.57	-510.76	-8919.41	17.463
14.21	17	SLU	61	23.75	12.57	12.57	12.57	12.57	-510.76	-8919.41	17.463
15.21	17	SLU	66	0.00	12.57	21.99	12.57	21.99	-357.02	-6949.94	19.466

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
1.15	5	SND	5	23.00	12.57	9.42	12.57	9.42	-1084.01	-6739.43	6.217
1.40	5	SND	7	0.00	12.57	12.57	12.57	12.57	3509.42	8622.16	2.457
2.52	5	SND	11	12.50	12.57	12.57	12.57	12.57	-5048.88	-8622.16	1.708
2.65	5	SND	11	25.00	12.57	12.57	12.57	12.57	-5048.88	-8622.16	1.708
3.90	13	SND	17	0.00	12.57	12.57	12.57	12.57	-6843.63	-8622.16	1.260
6.49	5	SND	27	18.58	12.57	12.57	12.57	12.57	-7046.43	-8622.16	1.224
7.49	13	SND	33	0.00	12.57	12.57	12.57	12.57	-5804.26	-8622.16	1.485
10.13	5	SND	44	5.25	25.13	25.13	25.13	25.13	-5957.87	-16808.00	2.821
10.31	5	SND	44	23.50	25.13	25.13	25.13	25.13	-5957.87	-16808.00	2.821
11.41	13	SND	50	0.00	12.57	25.13	12.57	25.13	-6269.92	-8645.15	1.379
13.99	5	SND	61	2.00	12.57	12.57	12.57	12.57	-5800.68	-8622.16	1.486
14.21	5	SND	61	23.75	12.57	12.57	12.57	12.57	-5800.68	-8622.16	1.486
15.21	13	SND	66	0.00	12.57	21.99	12.57	21.99	-536.94	-6745.11	12.562

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ_f sup <daN/cmq>	σ_f inf <daN/cmq>	σ_c <daN/cmq>
1.15	18	SLE R	5	23.00	12.57	9.42	-453.92	261.63	-100.35	13.19
1.15	20	SLE Q	5	23.00	12.57	9.42	-407.52	234.89	-90.09	11.84
1.40	18	SLE R	7	0.00	12.57	12.57	-57.44	26.02	-9.03	1.08
1.40	20	SLE Q	7	0.00	12.57	12.57	-29.89	13.54	-4.70	0.56
2.52	18	SLE R	11	12.50	12.57	12.57	-278.79	126.27	-43.84	5.26
2.52	20	SLE Q	11	12.50	12.57	12.57	-270.16	122.36	-42.48	5.09
2.65	18	SLE R	11	25.00	12.57	12.57	-278.79	126.27	-43.84	5.26
2.65	20	SLE Q	11	25.00	12.57	12.57	-270.16	122.36	-42.48	5.09
3.90	18	SLE R	17	0.00	12.57	12.57	-421.97	191.12	-66.35	7.96
3.90	20	SLE Q	17	0.00	12.57	12.57	-356.00	161.24	-55.98	6.71
6.49	18	SLE R	27	18.58	12.57	12.57	-573.45	259.73	-90.17	10.81
6.49	20	SLE Q	27	18.58	12.57	12.57	-508.49	230.30	-79.96	9.59
7.49	18	SLE R	33	0.00	12.57	12.57	-496.41	224.84	-78.06	9.36
7.49	20	SLE Q	33	0.00	12.57	12.57	-432.95	196.09	-68.08	8.16
10.13	18	SLE R	44	5.25	25.13	25.13	-575.19	132.94	-66.99	7.21
10.13	20	SLE Q	44	5.25	25.13	25.13	-492.73	113.88	-57.38	6.18
10.31	18	SLE R	44	23.50	25.13	25.13	-575.19	132.94	-66.99	7.21
10.31	20	SLE Q	44	23.50	25.13	25.13	-492.73	113.88	-57.38	6.18
11.41	18	SLE R	50	0.00	12.57	25.13	-772.44	350.02	-90.75	12.10
11.41	20	SLE Q	50	0.00	12.57	25.13	-709.64	321.56	-83.37	11.12
13.99	18	SLE R	61	2.00	12.57	12.57	-389.70	176.50	-61.28	7.35
13.99	20	SLE Q	61	2.00	12.57	12.57	-299.19	135.51	-47.05	5.64
14.21	18	SLE R	61	23.75	12.57	12.57	-389.70	176.50	-61.28	7.35
14.21	20	SLE Q	61	23.75	12.57	12.57	-299.19	135.51	-47.05	5.64
15.21	18	SLE R	66	0.00	12.57	21.99	-268.05	155.43	-42.83	6.41
15.21	20	SLE Q	66	0.00	12.57	21.99	-241.70	140.15	-38.62	5.78

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>
20	1.15	20	SLE Q	5	13	23.00	-407.52	25.00	140.00	0.50	20.00	84.21	12.57	214.94	0.07	0.01
21	1.15	19	SLE F	5	13	23.00	-416.64	25.00	140.00	0.50	20.00	84.21	12.57	214.94	0.07	0.01
41	1.40	20	SLE Q	7	10	0.00	-29.89	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.00	0.00
43	1.40	19	SLE F	7	10	0.00	-36.04	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.00	0.00
62	2.52	20	SLE Q	11	10	12.50	-270.16	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.04	0.01
63	2.52	19	SLE F	11	10	12.50	-271.07	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.04	0.01
82	2.65	20	SLE Q	11	10	25.00	-270.16	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.04	0.01
83	2.65	19	SLE F	11	10	25.00	-271.07	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.04	0.01
102	3.90	20	SLE Q	17	10	0.00	-356.00	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.05	0.01
103	3.90	19	SLE F	17	10	0.00	-369.73	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.05	0.01
122	6.49	20	SLE Q	27	10	18.58	-508.49	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.07	0.01
123	6.49	19	SLE F	27	10	18.58	-521.06	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.07	0.01
142	7.49	20	SLE Q	33	10	0.00	-432.95	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.06	0.01
143	7.49	19	SLE F	33	10	0.00	-445.03	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.06	0.01
162	10.13	20	SLE Q	44	10	5.25	-492.73	25.00	60.00	0.50	20.00	69.63	25.13	246.73	0.03	0.00
163	10.13	19	SLE F	44	10	5.25	-509.84	25.00	60.00	0.50	20.00	69.63	25.13	246.73	0.03	0.00
182	10.31	20	SLE Q	44	10	23.50	-492.73	25.00	60.00	0.50	20.00	69.63	25.13	246.73	0.03	0.00
183	10.31	19	SLE F	44	10	23.50	-509.84	25.00	60.00	0.50	20.00	69.63	25.13	246.73	0.03	0.00
202	11.41	20	SLE Q	50	10	0.00	-709.64	25.00	140.00	0.50	20.00	95.09	12.57	283.33	0.09	0.02
203	11.41	19	SLE F	50	10	0.00	-720.81	25.00	140.00	0.50	20.00	95.09	12.57	283.33	0.10	0.02
222	13.99	20	SLE Q	61	10	2.00	-299.19	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.04	0.01
223	13.99	19	SLE F	61	10	2.00	-318.64	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.04	0.01
242	14.21	20	SLE Q	61	10	23.75	-299.19	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.04	0.01
243	14.21	19	SLE F	61	10	23.75	-318.64	25.00	140.00	0.50	20.00	92.76	12.57	268.65	0.04	0.01
262	15.21	20	SLE Q	66	13	0.00	-241.70	25.00	140.00	0.50	20.00	86.32	12.57	228.20	0.04	0.01
263	15.21	19	SLE F	66	13	0.00	-246.94	25.00	140.00	0.50	20.00	86.32	12.57	228.20	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>	ctg θ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
5 SND	0.04	0.72	0.68	ø10/10 2 br.	15.71	0.50	1138.42	2.50	22819.20	24084.30	22819.20	20.045
5 SND	0.72	0.92	0.20	ø10/10 2 br.	15.71	0.50	1185.40	2.50	22819.20	24084.30	22819.20	19.250
5 SND	0.92	1.15	0.23	ø10/10 2 br.	15.71	0.50	2251.42	2.50	22819.20	24084.30	22819.20	10.136
13 SND	1.40	1.64	0.24	ø10/10 2 br.	15.71	0.50	6763.29	2.50	28351.20	29922.90	28351.20	4.192
5 SND	1.64	2.41	0.77	ø10/10 2 br.	15.71	0.50	6553.81	2.50	28351.20	29922.90	28351.20	4.326
5 SND	2.41	2.65	0.24	ø10/10 2 br.	15.71	0.50	8122.00	2.50	28351.20	29922.90	28351.20	3.491
13 SND	3.90	4.14	0.24	ø10/10 2 br.	15.71	0.50	8717.31	2.50	28351.20	29922.90	28351.20	3.252
5 SND	4.14	6.25	2.11	ø10/10 2 br.	15.71	0.50	6778.59	2.50	28351.20	29922.90	28351.20	4.182
5 SND	6.25	6.49	0.24	ø10/10 2 br.	15.71	0.50	9797.54	2.50	28351.20	29922.90	28351.20	2.894
13 SND	7.49	7.73	0.24	ø10/10 2 br.	15.71	0.50	6831.31	2.50	28351.20	29922.90	28351.20	4.150
5 SND	7.73	10.07	2.34	ø10/10 2 br.	15.71	0.50	5186.37	2.50	28351.20	29922.90	28351.20	5.466
5 SND	10.07	10.31	0.24	ø10/10 2 br.	15.71	0.50	7160.84	2.50	28351.20	29922.90	28351.20	3.959
13 SND	11.41	11.65	0.24	ø10/10 2 br.	15.71	0.50	7901.39	2.50	28351.20	29922.90	28351.20	3.588
13 SND	11.65	13.97	2.32	ø10/10 2 br.	15.71	0.50	5571.03	2.50	28351.20	29922.90	28351.20	5.089
5 SND	13.97	14.21	0.24	ø10/10 2 br.	15.71	0.50	7192.83	2.50	28351.20	29922.90	28351.20	3.942

9 SND	15.21	15.41	0.20	ø10/10 2 br.	15.71	0.50	1044.88	2.50	22819.20	24084.30	22819.20	21.839
9 SND	15.41	16.32	0.91	ø10/10 2 br.	15.71	0.50	997.90	2.50	22819.20	24084.30	22819.20	22.867

Travata n. 501

Nodi: 4076 -20411 -20412 -20413 -20414 4055 4053 -8993 4052 -8988 -8989 -8990 4051 -8928 4045 -8896 -8895 -8894 -8893 4044 -8884 4043 4030 4026 -20602 -20601 -20600 -20599 -20598 -20597 -20596 -20595 -20594 -20593 -20592 -20591 -20590 -20589 -20588 -20587 -20586 -20585 -20584 -20583 -20582 4071 -28647 4003 -28642 -28643 -28644 -28044 -21352 -21351 -21350 -21349 -21348 -21347 -21346 -21345 -21344 -21343 -21342 -21341 -21340 -21339 -28050 -21337 -21336 4093 4004 -21273 -21274 -21275 -21276

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
15	R	70.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
12	R	70.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	Afep S <cm²>	Afep I <cm²>	My <daNm>	MRdy <daNm>	Sic.
1.15	17	SLU	5	0.00	10.05	10.05	10.05	10.05	-82.46	-5879.10	71.299
1.40	17	SLU	7	16.49	10.05	10.05	10.05	10.05	-20.77	-7452.64	>100
4.26	17	SLU	21	16.49	20.11	14.07	20.11	14.07	-384.13	-14143.60	36.820
4.42	17	SLU	21	0.00	20.11	14.07	20.11	14.07	-384.13	-14143.60	36.820
4.67	17	SLU	23	15.96	20.11	14.07	20.11	14.07	-1844.09	-14143.60	7.670
9.85	17	SLU	45	11.46	20.11	4.02	20.11	4.02	-1143.13	-13984.20	12.233
10.65	17	SLU	50	20.84	24.13	4.02	24.13	4.02	-1229.12	-16375.10	13.323
14.36	17	SLU	66	15.28	10.05	4.02	10.05	4.02	81.75	3382.23	41.371
14.48	17	SLU	66	2.59	10.05	4.02	10.05	4.02	81.75	3382.23	41.371
15.28	17	SLU	70	24.34	10.05	10.05	10.05	10.05	-664.01	-5879.10	8.854

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	Afep S <cm²>	Afep I <cm²>	My <daNm>	M'ydy <daNm>	Sic.
1.15	13	SND	5	0.00	10.05	10.05	10.05	10.05	-632.28	-5584.45	8.832
1.40	5	SND	7	16.49	10.05	10.05	10.05	10.05	387.55	7083.11	18.277
4.26	1	SND	21	16.49	20.11	14.07	20.11	14.07	-1222.24	-13662.80	11.178
4.42	1	SND	21	0.00	20.11	14.07	20.11	14.07	-1222.24	-13662.80	11.178
4.67	5	SND	23	15.96	20.11	14.07	20.11	14.07	-4459.26	-13662.80	3.064
9.85	13	SND	45	11.46	20.11	4.02	20.11	4.02	1255.45	2930.77	2.334
10.65	5	SND	50	20.84	24.13	4.02	24.13	4.02	1598.63	2925.80	1.830
14.36	13	SND	66	15.28	10.05	4.02	10.05	4.02	2933.09	2946.51	1.005
14.48	13	SND	66	2.59	10.05	4.02	10.05	4.02	2933.09	2946.51	1.005
15.28	13	SND	70	24.34	10.05	10.05	10.05	10.05	-1849.75	-5584.45	3.019

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	My <daNm>	σ _f sup <daN/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
1.15	18	SLE R	5	0.00	10.05	10.05	-61.93	43.46	-9.97	1.62
1.15	20	SLE Q	5	0.00	10.05	10.05	-56.76	39.83	-9.14	1.49
1.40	18	SLE R	7	16.49	10.05	10.05	-14.71	8.15	-1.92	0.27
1.40	20	SLE Q	7	16.49	10.05	10.05	-12.22	6.77	-1.59	0.22
4.26	18	SLE R	21	16.49	20.11	14.07	-294.24	83.80	-35.23	3.98
4.26	20	SLE Q	21	16.49	20.11	14.07	-283.03	80.61	-33.89	3.83
4.42	18	SLE R	21	0.00	20.11	14.07	-294.24	83.80	-35.23	3.98
4.42	20	SLE Q	21	0.00	20.11	14.07	-283.03	80.61	-33.89	3.83
4.67	18	SLE R	23	15.96	20.11	14.07	-1384.91	394.43	-165.81	18.74
4.67	20	SLE Q	23	15.96	20.11	14.07	-1286.83	366.50	-154.07	17.42
9.85	18	SLE R	45	11.46	20.11	4.02	-874.86	250.67	-129.84	13.88
9.85	20	SLE Q	45	11.46	20.11	4.02	-819.37	234.77	-121.60	13.00
10.65	18	SLE R	50	20.84	24.13	4.02	-927.80	223.90	-135.79	13.99
10.65	20	SLE Q	50	20.84	24.13	4.02	-870.02	209.96	-127.33	13.12
14.36	18	SLE R	66	15.28	10.05	4.02	64.46	-6.54	86.33	1.71
14.36	20	SLE Q	66	15.28	10.05	4.02	81.18	-8.24	108.73	2.16
14.48	18	SLE R	66	2.59	10.05	4.02	64.46	-6.54	86.33	1.71
14.48	20	SLE Q	66	2.59	10.05	4.02	81.18	-8.24	108.73	2.16
15.28	18	SLE R	70	24.34	10.05	10.05	-497.61	349.19	-80.09	13.04
15.28	20	SLE Q	70	24.34	10.05	10.05	-443.33	311.10	-71.35	11.62

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm²>	A _{c eff} <cm²>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
19	1.15	20	SLE Q	5	15	0.00	-56.76	27.00	156.00	0.50	16.00	106.27	10.05	328.41	39.83	0.01	0.00
20	1.15	19	SLE F	5	15	0.00	-57.84	27.00	156.00	0.50	16.00	106.27	10.05	328.41	40.59	0.01	0.00
41	1.40	20	SLE Q	7	12	16.49	-12.22	27.00	156.00	0.50	16.00	118.11	10.05	402.84	6.77	0.00	0.00
43	1.40	19	SLE F	7	12	16.49	-12.31	27.00	156.00	0.50	16.00	118.11	10.05	402.84	6.82	0.00	0.00
63	4.26	20	SLE Q	21	12	16.49	-283.03	27.00	69.33	0.50	16.00	82.72	20.11	360.94	80.61	0.02	0.00
64	4.26	19	SLE F	21	12	16.49	-285.62	27.00	69.33	0.50	16.00	82.72	20.11	360.94	81.35	0.02	0.00

Relazione di calcolo

83	4.42	20	SLE Q	21	12	0.00	-283.03	27.00	69.33	0.50	16.00	82.72	20.11	360.94	80.61	0.02	0.00
84	4.42	19	SLE F	21	12	0.00	-285.62	27.00	69.33	0.50	16.00	82.72	20.11	360.94	81.35	0.02	0.00
110	4.67	20	SLE Q	23	12	15.96	-1286.83	27.00	69.33	0.50	16.00	82.72	20.11	360.93	366.50	0.11	0.02
111	4.67	19	SLE F	23	12	15.96	-1306.98	27.00	69.33	0.50	16.00	82.72	20.11	360.94	372.24	0.11	0.02
130	9.85	20	SLE Q	45	12	11.46	-819.37	27.00	69.33	0.50	16.00	81.29	20.11	342.98	234.77	0.07	0.01
131	9.85	19	SLE F	45	12	11.46	-829.66	27.00	69.33	0.50	16.00	81.29	20.11	342.98	237.72	0.07	0.01
150	10.65	20	SLE Q	50	12	20.84	-870.02	27.00	56.73	0.50	16.00	75.79	24.13	328.58	209.96	0.06	0.01
151	10.65	19	SLE F	50	12	20.84	-881.53	27.00	56.73	0.50	16.00	75.79	24.13	328.58	212.74	0.06	0.01
172	14.36	20	SLE Q	66	12	15.28	81.18	27.00	624.00	0.50	16.00	233.20	4.02	450.38	108.73	0.03	0.01
174	14.36	19	SLE F	66	12	15.28	77.61	27.00	624.00	0.50	16.00	233.20	4.02	450.38	103.94	0.03	0.01
196	14.48	20	SLE Q	66	12	2.59	81.18	27.00	624.00	0.50	16.00	233.20	4.02	450.38	108.73	0.03	0.01
198	14.48	19	SLE F	66	12	2.59	77.61	27.00	624.00	0.50	16.00	233.20	4.02	450.38	103.94	0.03	0.01
220	15.28	20	SLE Q	70	15	24.34	-443.33	27.00	156.00	0.50	16.00	106.27	10.05	328.41	311.10	0.09	0.02
221	15.28	19	SLE F	70	15	24.34	-454.30	27.00	156.00	0.50	16.00	106.27	10.05	328.41	318.80	0.09	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.
13 SND	-0.00	0.93	0.99	ø10/10 2 br.	15.71	0.70	514.53	2.50	22819.20	33718.00	22819.20	44.350
13 SND	0.93	1.12	0.20	ø10/10 2 br.	15.71	0.70	2909.30	2.50	22819.20	33718.00	22819.20	7.844
13 SND	1.44	1.67	0.24	ø10/10 2 br.	15.71	0.70	1545.47	2.50	28351.20	41892.10	28351.20	18.345
1 SND	1.67	4.24	2.73	ø10/10 2 br.	15.71	0.70	2104.48	2.50	28351.20	41892.10	28351.20	13.472
1 SND	4.24	4.46	0.24	ø10/10 2 br.	15.71	0.70	23277.70	2.50	28351.20	41892.10	28351.20	1.218
13 SND	4.71	4.78	0.07	ø10/10 2 br.	15.71	0.70	19793.40	2.50	28351.20	41892.10	28351.20	1.432
13 SND	4.85	5.08	0.24	ø10/10 2 br.	15.71	0.70	2164.33	2.50	28351.20	41892.10	28351.20	11.099
5 SND	5.08	9.69	4.80	ø10/10 2 br.	15.71	0.70	2264.83	2.50	28351.20	41892.10	28351.20	12.518
5 SND	9.69	9.92	0.24	ø10/10 2 br.	15.71	0.70	12200.70	2.50	28351.20	41892.10	28351.20	2.324
13 SND	10.69	10.92	0.24	ø10/10 2 br.	15.71	0.70	3216.81	2.50	28351.20	41892.10	28351.20	8.813
13 SND	10.92	14.30	3.60	ø10/10 2 br.	15.71	0.70	2514.63	2.50	28351.20	41892.10	28351.20	11.274
5 SND	14.30	14.52	0.24	ø10/10 2 br.	15.71	0.70	3969.63	2.50	28351.20	41892.10	28351.20	7.142
13 SND	15.32	15.13	0.20	ø10/10 2 br.	15.71	0.70	4426.43	2.50	22819.20	33718.00	22819.20	5.155
13 SND	15.13	14.75	0.40	ø10/10 2 br.	15.71	0.70	4426.43	2.50	22819.20	33718.00	22819.20	5.155
5 SND	14.75	14.52	0.24	ø10/10 2 br.	15.71	0.70	3969.63	2.50	28351.20	41892.10	28351.20	7.142
13 SND	15.32	15.50	0.20	ø10/10 2 br.	15.71	0.70	4402.38	2.50	22819.20	33718.00	22819.20	5.183
13 SND	15.50	16.36	0.92	ø10/10 2 br.	15.71	0.70	2126.25	2.50	22819.20	33718.00	22819.20	10.732

Travata n. 502

Nodi: 4077 -20374 -20375 -20376 -20377 4056 4031 4027 4072 4006 -38792 4016 -21241 -21242 -21243 -21244

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>
14R		40.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
11R		40.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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>	N <daN>	MRdy <daNm>	Nu <daN>	Sic.
4.42	17	SLU	6	26.60	16.09	14.07	16.09	14.07	-338.18	0.00	-11127.20	0.00	32.903
4.67	17	SLU	7	15.96	16.09	14.07	16.09	14.07	-1075.75	9973.94	-10295.20	9973.94	9.570
9.61	17	SLU	8	36.45	18.10	6.03	18.10	6.03	-156.72	0.00	-12168.00	0.00	77.644
15.03	17	SLU	10	26.62	6.03	6.03	6.03	6.03	-760.44	0.00	-4451.78	0.00	5.854
15.28	17	SLU	11	24.34	6.03	6.03	6.03	6.03	-327.72	0.00	-3507.65	0.00	10.703

Stato limite elastico - 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>	N <daN>	M'ydy <daNm>	Nu <daN>	Sic.
4.42	5	SND	6	26.60	16.09	14.07	16.09	14.07	-1383.18	0.00	-10804.80	0.00	7.812
4.67	5	SND	7	15.96	16.09	14.07	16.09	14.07	3278.12	52928.60	4952.87	52928.60	1.511
9.61	13	SND	8	36.45	18.10	6.03	18.10	6.03	732.91	0.00	4220.92	0.00	5.759
15.03	1	SND	10	26.62	6.03	6.03	6.03	6.03	-2688.82	0.00	-4239.60	0.00	1.577
15.28	5	SND	11	24.34	6.03	6.03	6.03	6.03	-1211.12	0.00	-3340.48	0.00	2.758

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	N <daN>	σ _f sup <daN/cmq>	σ _f inf <daN/cmq>	σ _e <daN/cmq>
4.42	18	SLE R	6	26.60	16.09	14.07	-259.75	0.00	93.38	-44.57	4.86
4.42	20	SLE Q	6	26.60	16.09	14.07	-254.66	0.00	91.55	-43.69	4.77
4.67	18	SLE R	7	15.96	16.09	14.07	-803.01	7394.26	518.08	-17.57	8.52
4.67	20	SLE Q	7	15.96	16.09	14.07	-767.64	6572.90	479.35	-26.49	8.71
9.61	18	SLE R	8	36.45	18.10	6.03	-126.21	0.00	40.93	-27.56	2.78
9.61	20	SLE Q	8	36.45	18.10	6.03	-149.94	0.00	48.62	-32.74	3.30
15.03	18	SLE R	10	26.62	6.03	6.03	-562.86	0.00	520.63	-127.09	17.36
15.03	20	SLE Q	10	26.62	6.03	6.03	-532.14	0.00	492.22	-120.16	16.42
15.28	18	SLE R	11	24.34	6.03	6.03	-243.97	0.00	286.07	-68.42	10.92
15.28	20	SLE Q	11	24.34	6.03	6.03	-229.89	0.00	269.56	-64.47	10.29

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	N <daN>	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>
19	4.42	20	SLE Q	6	11	26.60	-254.66	0.00	27.00	46.29	0.50	16.00	73.90	16.09	200.11	91.55	0.03	0.00
20	4.42	19	SLE F	6	11	26.60	-255.94	0.00	27.00	46.29	0.50	16.00	73.90	16.09	200.11	92.02	0.03	0.00
43	4.67	20	SLE Q	7	11	15.96	-767.64	6572.90	27.00	46.29	0.50	16.00	80.01	16.09	261.46	479.35	0.14	0.02
44	4.67	19	SLE F	7	11	15.96	-775.68	6758.82	27.00	46.29	0.50	16.00	80.11	16.09	262.50	488.13	0.14	0.02
63	9.61	20	SLE Q	8	11	36.45	-149.94	0.00	27.00	40.50	0.50	16.00	70.10	18.10	182.12	48.62	0.01	0.00
64	9.61	19	SLE F	8	11	36.45	-145.02	0.00	27.00	40.50	0.50	16.00	70.10	18.10	182.12	47.03	0.01	0.00
83	15.03	20	SLE Q	10	11	26.62	-532.14	0.00	27.00	162.00	0.50	16.00	114.71	6.03	228.86	492.22	0.14	0.03
84	15.03	19	SLE F	10	11	26.62	-539.42	0.00	27.00	162.00	0.50	16.00	114.71	6.03	228.86	498.95	0.15	0.03
105	15.28	20	SLE Q	11	14	24.34	-229.89	0.00	27.00	162.00	0.50	16.00	103.48	6.03	186.55	269.56	0.08	0.01
106	15.28	19	SLE F	11	14	24.34	-232.71	0.00	27.00	162.00	0.50	16.00	103.48	6.03	186.55	272.86	0.08	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.
5 SND	-0.00	0.93	0.99	ø10/10 2 br.	15.71	0.40	518.69	2.26	20656.70	20656.70	20656.70	39.825
5 SND	0.93	1.12	0.20	ø10/10 2 br.	15.71	0.40	2555.04	2.26	20656.70	20656.70	20656.70	8.085
5 SND	1.36	4.24	3.06	ø10/10 2 br.	15.71	0.40	914.50	2.26	25664.40	25664.40	25664.40	28.064
5 SND	4.24	4.46	0.24	ø10/10 2 br.	15.71	0.40	948.95	2.26	25664.40	25664.40	25664.40	27.045
9 SND	4.71	4.78	0.07	ø10/10 2 br.	15.71	0.40	21345.10	2.26	25664.40	25664.40	25664.40	1.202
13 SND	4.85	5.08	0.24	ø10/10 2 br.	15.71	0.40	1004.31	2.26	25664.40	25664.40	25664.40	25.554
13 SND	5.08	9.53	4.63	ø10/10 2 br.	15.71	0.40	949.03	2.26	25664.40	25664.40	25664.40	27.043
13 SND	9.53	9.76	0.24	ø10/10 2 br.	15.71	0.40	9855.52	2.26	25664.40	25664.40	25664.40	2.604
13 SND	10.19	10.41	0.24	ø10/10 2 br.	15.71	0.40	9855.52	2.26	25664.40	25664.40	25664.40	2.604
1 SND	10.41	14.85	4.72	ø10/10 2 br.	15.71	0.40	1306.19	2.26	25664.40	25664.40	25664.40	19.648
1 SND	14.85	15.07	0.24	ø10/10 2 br.	15.71	0.40	1340.50	2.26	25664.40	25664.40	25664.40	19.145
5 SND	15.32	15.50	0.20	ø10/10 2 br.	15.71	0.40	4023.28	2.26	20656.70	20656.70	20656.70	5.134
5 SND	15.50	16.36	0.92	ø10/10 2 br.	15.71	0.40	1635.71	2.26	20656.70	20656.70	20656.70	12.629

Travata n. 504

Nodi: 4078 -20289 -20290 -20291 -20292 4058 4033

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>
14	R	40.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
11	R	40.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
4.42	17	SLU	6	26.60	6.03	6.03	6.03	6.03	-216.33	-4451.78	20.579

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
4.42	5	SND	6	26.60	6.03	6.03	6.03	6.03	-1938.11	-4239.60	2.187

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>
4.42	18	SLE R	6	26.60	6.03	6.03	-164.95	152.57	-37.25	5.09
4.42	20	SLE Q	6	26.60	6.03	6.03	-168.27	155.64	-37.99	5.19

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>
19	4.42	20	SLE Q	6	11	26.60	-168.27	27.00	164.00	0.50	16.00	114.71	6.03	228.86	155.64	0.05	0.01
20	4.42	19	SLE F	6	11	26.60	-167.81	27.00	164.00	0.50	16.00	114.71	6.03	228.86	155.22	0.05	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.
5 SND	-0.00	0.93	0.99	ø8/10 2 br.	10.05	0.40	461.52	2.50	14604.30	19267.40	14604.30	31.644
5 SND	0.93	1.12	0.20	ø8/10 2 br.	10.05	0.40	2507.73	2.50	14604.30	19267.40	14604.30	5.824
13 SND	1.36	4.24	3.06	ø8/10 2 br.	10.05	0.40	1192.51	2.50	18144.70	23938.30	18144.70	15.216
5 SND	4.24	4.46	0.24	ø8/10 2 br.	10.05	0.40	1194.15	2.50	18144.70	23938.30	18144.70	15.195

Travata n. 507

Nodi: 4079 -20251 -20252 -20253 -20254 4059 -681 4034

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>
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Relazione di calcolo

14	R	40.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
11	R	40.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	N	MRdy	Nu	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daN>	<daNm>	<daN>	
4.42	17	SLU	7	26.60	9.42	9.42	9.42	9.42	18.56	0.00	6717.77	0.00	>100

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	N	M'ydy	Nu	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daN>	<daNm>	<daN>	
4.42	13	SND	7	26.60	9.42	9.42	9.42	9.42	3556.93	0.00	6484.85	0.00	1.823

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	N	σ_f sup	σ_f inf	σ_c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN>	<daN/cmq>	<daN/cmq>	<daN/cmq>
4.42	18	SLE R	7	26.60	9.42	9.42	-16.66	0.00	10.04	-3.35	0.41
4.42	20	SLE Q	7	26.60	9.42	9.42	-29.31	0.00	17.66	-5.89	0.72

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	N	c	s	K ₂	Φ_{eq}	Δ_{sm}	A _s	A _{c eff}	σ_s	ϵ_{sm}	W _k
	<m>					<cm>	<daNm>	<daN>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
22	4.42	20	SLE Q	7	11	26.60	-29.31	0.00	25.00	162.00	0.50	20.00	95.98	9.42	216.66	17.66	0.01	0.00
24	4.42	19	SLE F	7	11	26.60	-26.30	0.00	25.00	162.00	0.50	20.00	95.98	9.42	216.66	15.85	0.00	0.00

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctg θ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
9 SND	-0.00	0.93	0.99	ø8/10 2 br.	10.05	0.40	437.04	2.50	14604.30	19267.40	14604.30	33.417
9 SND	0.93	1.12	0.20	ø8/10 2 br.	10.05	0.40	1915.54	2.50	14604.30	19267.40	14604.30	7.624
13 SND	1.31	4.24	3.11	ø8/10 2 br.	10.05	0.40	4011.03	2.50	18144.70	23938.30	18144.70	4.524
13 SND	4.24	4.46	0.24	ø8/10 2 br.	10.05	0.40	4045.48	2.50	18144.70	23938.30	18144.70	4.485

Travata n. 509

Nodi: 4080 -20028 -20029 -20030 -20031 4065 -36726 -36725 -36724 -36722 -36721 -36720 -36719 -36718 -682 -36709 -36708 -36707 -36706 -36705 -36704 -36703 4040

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B	H	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
		<cm>	<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
14	R	40.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
11	R	40.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	N	MRdy	Nu	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daN>	<daNm>	<daN>	
1.15	17	SLU	5	0.00	6.03	6.03	6.03	6.03	-127.83	0.00	-3507.65	0.00	27.440

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	N	M'ydy	Nu	Sic.
<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daN>	<daNm>	<daN>	
1.15	13	SND	5	0.00	6.03	6.03	6.03	6.03	-917.73	0.00	-3340.48	0.00	3.640

Stato limite d'esercizio - Verifiche tensionali

Xg	CC	TCC	El	X	AfE S	AfE I	My	N	σ_f sup	σ_f inf	σ_c
<m>				<cm>	<cmq>	<cmq>	<daNm>	<daN>	<daN/cmq>	<daN/cmq>	<daN/cmq>
1.15	18	SLE R	5	0.00	6.03	6.03	-92.79	0.00	108.80	-26.02	4.15
1.15	20	SLE Q	5	0.00	6.03	6.03	-91.90	0.00	107.76	-25.77	4.12

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	N	c	s	K ₂	Φ_{eq}	Δ_{sm}	A _s	A _{c eff}	σ_s	ϵ_{sm}	W _k
	<m>					<cm>	<daNm>	<daN>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
19	1.15	20	SLE Q	5	14	0.00	-91.90	0.00	27.00	164.00	0.50	16.00	103.48	6.03	186.55	107.76	0.03	0.01
20	1.15	19	SLE F	5	14	0.00	-91.96	0.00	27.00	164.00	0.50	16.00	103.48	6.03	186.55	107.83	0.03	0.01

Stato limite ultimo - Verifiche a taglio

CC	X0	X1	Lung.	Staff.	AfE St.	bw	Vsdu	ctg θ	VRsd	VRcd	Vrdu	Sic.
	<m>	<m>	<m>		<cmq/m>	<m>	<daN>		<daN>	<daN>	<daN>	
13 SND	-0.00	0.93	0.99	ø8/10 2 br.	10.05	0.40	666.36	2.50	14604.30	19267.40	14604.30	21.917
13 SND	0.93	1.12	0.20	ø8/10 2 br.	10.05	0.40	3541.67	2.50	14604.30	19267.40	14604.30	4.124

Travata n. 511

Nodi: 4081 -20013 -20012 -20011 -20010 4066 -695 -10906 -691 -10849 -10847 -10845 -687 -10819 -683 -10766 -10765 -24939

Relazione di calcolo

-10763 -678 -10745 -674 4041 4028 -20691 -20692 -20693 -20694 -20695 -20696 -20697 -20698 -20699 -20700 -20701 -20702 -20703 -20704 -20705 -20706 -20707 -20708 -20709 -699 -11295 4075 -11266 4069 -11238 -697 -20860 -20861 -20862 -20863 -20864 -20865 -20866 -20867 -20868 -20869 -20870 -20871 -20872 -20873 -20874 -20875 -20876 -20877 -20878 -38795 4024 -20968 -20969 -20970 -20971

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
15	R	70.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
12	R	70.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	N <daN>	MRdy <daNm>	Nu <daN>	Sic.
1.71	17	SLU	8	0.00	10.05	10.05	10.05	10.05	-62.26	0.00	-7452.64	0.00	>100
4.11	17	SLU	20	16.49	20.11	20.11	20.11	20.11	-186.89	0.00	-14154.70	0.00	75.737
9.51	17	SLU	43	0.00	30.16	10.05	30.16	10.05	-1474.23	0.00	-20375.40	0.00	13.821
10.61	17	SLU	50	24.85	30.16	10.05	30.16	10.05	-1527.99	0.00	-20375.40	0.00	13.335
13.88	17	SLU	64	24.84	10.05	10.05	10.05	10.05	517.29	0.00	7452.64	0.00	14.407
15.03	17	SLU	68	1.27	10.05	10.05	10.05	10.05	-1212.58	0.00	-7452.64	0.00	6.146
15.28	17	SLU	70	24.34	10.05	10.05	10.05	10.05	-901.11	0.00	-5879.10	0.00	6.524

Stato limite elastico - Verifiche a flessione/presoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	N <daN>	M'ydy <daNm>	Nu <daN>	Sic.
1.71	1	SND	8	0.00	10.05	10.05	10.05	10.05	1010.07	0.00	7083.11	0.00	7.012
4.11	9	SND	20	16.49	20.11	20.11	20.11	20.11	3520.44	0.00	13714.80	0.00	3.896
9.51	9	SND	43	0.00	30.16	10.05	30.16	10.05	-2311.57	0.00	-19693.20	0.00	8.519
10.61	1	SND	50	24.85	30.16	10.05	30.16	10.05	-3129.21	0.00	-19693.20	0.00	6.293
13.88	1	SND	64	24.84	10.05	10.05	10.05	10.05	1678.10	0.00	7083.11	0.00	4.221
15.03	9	SND	68	1.27	10.05	10.05	10.05	10.05	-2827.49	0.00	-7083.11	0.00	2.505
15.28	13	SND	70	24.34	10.05	10.05	10.05	10.05	-1128.78	0.00	-5584.45	0.00	4.947

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	N <daN>	σ _f sup <daN/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
1.71	18	SLE R	8	0.00	10.05	10.05	-51.28	0.00	28.40	-6.68	0.93
1.71	20	SLE Q	8	0.00	10.05	10.05	-37.04	0.00	20.51	-4.82	0.67
4.11	18	SLE R	20	16.49	20.11	20.11	-147.35	0.00	41.90	-15.77	1.84
4.11	20	SLE Q	20	16.49	20.11	20.11	-140.57	0.00	39.98	-15.04	1.76
9.51	18	SLE R	43	0.00	30.16	10.05	-1119.54	0.00	217.38	-141.61	14.37
9.51	20	SLE Q	43	0.00	30.16	10.05	-1034.66	0.00	200.90	-130.87	13.28
10.61	18	SLE R	50	24.85	30.16	10.05	-1167.02	0.00	226.60	-147.62	14.98
10.61	20	SLE Q	50	24.85	30.16	10.05	-1088.76	0.00	211.40	-137.72	13.97
13.88	18	SLE R	64	24.84	10.05	10.05	400.81	0.00	-52.18	221.99	7.24
13.88	20	SLE Q	64	24.84	10.05	10.05	379.12	0.00	-49.36	209.98	6.85
15.03	18	SLE R	68	1.27	10.05	10.05	-894.67	0.00	495.52	-116.47	16.16
15.03	20	SLE Q	68	1.27	10.05	10.05	-808.48	0.00	447.78	-105.25	14.61
15.28	18	SLE R	70	24.34	10.05	10.05	-673.37	0.00	472.53	-108.38	17.65
15.28	20	SLE Q	70	24.34	10.05	10.05	-609.71	0.00	427.86	-98.13	15.98

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	N <daN>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cmq>	A _{c eff} <cmq>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
22	1.71	20	SLE Q	8	12	0.00	-37.04	0.00	27.00	156.00	0.50	16.00	118.11	10.05	402.84	20.51	0.01	0.00
24	1.71	19	SLE F	8	12	0.00	-40.26	0.00	27.00	156.00	0.50	16.00	118.11	10.05	402.84	22.30	0.01	0.00
43	4.11	20	SLE Q	20	12	16.49	-140.57	0.00	27.00	69.33	0.50	16.00	83.43	20.11	369.88	39.98	0.01	0.00
44	4.11	19	SLE F	20	12	16.49	-141.47	0.00	27.00	69.33	0.50	16.00	83.43	20.11	369.88	40.23	0.01	0.00
64	9.51	20	SLE Q	43	12	0.00	-1034.66	0.00	27.00	44.57	0.50	16.00	71.08	30.16	321.86	200.90	0.06	0.01
65	9.51	19	SLE F	43	12	0.00	-1051.80	0.00	27.00	44.57	0.50	16.00	71.08	30.16	321.86	204.22	0.06	0.01
86	10.61	20	SLE Q	50	12	24.85	-1088.76	0.00	27.00	44.57	0.50	16.00	71.08	30.16	321.86	211.40	0.06	0.01
87	10.61	19	SLE F	50	12	24.85	-1104.54	0.00	27.00	44.57	0.50	16.00	71.08	30.16	321.86	214.47	0.06	0.01
106	13.88	20	SLE Q	64	12	24.84	379.12	0.00	27.00	156.00	0.50	16.00	118.11	10.05	402.84	209.98	0.06	0.01
107	13.88	19	SLE F	64	12	24.84	383.53	0.00	27.00	156.00	0.50	16.00	118.11	10.05	402.84	212.42	0.06	0.01
127	15.03	20	SLE Q	68	12	1.27	-808.48	0.00	27.00	156.00	0.50	16.00	118.11	10.05	402.84	447.78	0.13	0.03
128	15.03	19	SLE F	68	12	1.27	-825.55	0.00	27.00	156.00	0.50	16.00	118.11	10.05	402.84	457.23	0.13	0.03
147	15.28	20	SLE Q	70	15	24.34	-609.71	0.00	27.00	156.00	0.50	16.00	106.27	10.05	328.41	427.86	0.12	0.02
148	15.28	19	SLE F	70	15	24.34	-622.34	0.00	27.00	156.00	0.50	16.00	106.27	10.05	328.41	436.72	0.13	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.
13 SND	-0.00	0.93	0.99	ø10/10 2 br.	15.71	0.70	123.01	2.50	22819.20	33718.00	22819.20	>100
17 SLU	0.93	1.12	0.20	ø10/10 2 br.	15.71	0.70	76.17	2.50	22819.20	33718.00	22819.20	>100
9 SND	1.11	1.67	0.60	ø10/10 2 br.	15.71	0.70	4484.81	2.50	28351.20	41892.10	28351.20	6.322
1 SND	4.15	4.78	0.67	ø10/10 2 br.	15.71	0.70	13731.80	2.50	28351.20	41892.10	28351.20	2.065
17 SLU	4.85	5.08	0.24	ø10/10 2 br.	15.71	0.70	1341.20	2.50	28351.20	41892.10	28351.20	21.139
9 SND	5.08	9.25	4.33	ø10/10 2 br.	15.71	0.70	1842.10	2.50	28351.20	41892.10	28351.20	15.391
9 SND	9.25	9.48	0.24	ø10/10 2 br.	15.71	0.70	2621.75	2.50	28351.20	41892.10	28351.20	10.814

Relazione di calcolo

1 SND	10.65	10.88	0.24	ø10/10 2 br.	15.71	0.70	3226.02	2.50	28351.20	41892.10	28351.20	8.788
9 SND	10.88	14.85	4.23	ø10/10 2 br.	15.71	0.70	2509.46	2.50	28351.20	41892.10	28351.20	11.298
9 SND	14.85	15.07	0.24	ø10/10 2 br.	15.71	0.70	4477.89	2.50	28351.20	41892.10	28351.20	6.331
13 SND	15.32	15.50	0.20	ø10/10 2 br.	15.71	0.70	2696.11	2.50	22819.20	33718.00	22819.20	8.464
13 SND	15.50	16.36	0.92	ø10/10 2 br.	15.71	0.70	1462.42	2.50	22819.20	33718.00	22819.20	15.604

Travata n. 516

Nodi: 4054 -20435 -20436 -20437 -20438 4055 -14937 -14938 -14939 -14940 -14941 4056 -15008 -15009 -15010 -15011 -15012 -15013 -15014 4057 -15103 -15104 4058 -20259 -20260 -20261 -20262 -20263 -20264 -20265 -20266 -20267 -20268 -20269 -20270 -20271 -20272 -20273 4059 -13874 4060 -13917 4061 4062 4063 -13975 -13974 4064 -13977 4065 -19996 -19997 -19998 -19999 -20000 -20001 -20002 -20003 -20004 -20005 -20006 -20007 -20008 -20009 4066 -20088 -20089 -20090 -20091 4067

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
13R		50.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
10R		50.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	Afep S <cm²>	Afep I <cm²>	My <daNm>	MRdy <daNm>	Sic.
1.15	17	SLU	5	23.00	8.04	16.09	8.04	16.09	-57.83	-4640.10	80.235
2.65	17	SLU	12	0.00	8.04	8.04	8.04	8.04	189.96	5902.26	31.071
3.65	17	SLU	15	25.00	8.04	8.04	8.04	8.04	-288.84	-5902.26	20.434
5.36	17	SLU	23	0.00	8.04	8.04	8.04	8.04	-333.11	-5902.26	17.719
9.19	17	SLU	38	12.34	16.09	16.09	16.09	16.09	-243.36	-11254.40	46.245
9.31	17	SLU	38	24.69	16.09	16.09	16.09	16.09	-243.36	-11254.40	46.245
11.66	17	SLU	50	0.00	8.04	8.04	8.04	8.04	-900.96	-5902.26	6.551

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	Afep S <cm²>	Afep I <cm²>	My <daNm>	M' ydy <daNm>	Sic.
1.15	13	SND	5	23.00	8.04	16.09	8.04	16.09	-441.14	-4414.13	10.006
2.65	13	SND	12	0.00	8.04	8.04	8.04	8.04	2324.13	5635.47	2.425
3.65	13	SND	15	25.00	8.04	8.04	8.04	8.04	-2396.94	-5635.46	2.351
5.36	5	SND	23	0.00	8.04	8.04	8.04	8.04	-2568.01	-5635.46	2.194
9.19	13	SND	38	12.34	16.09	16.09	16.09	16.09	-2438.83	-10922.70	4.479
9.31	13	SND	38	24.69	16.09	16.09	16.09	16.09	-2438.83	-10922.70	4.479
11.66	5	SND	50	0.00	8.04	8.04	8.04	8.04	-2941.32	-5635.46	1.916

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	Afe S <cm²>	Afe I <cm²>	My <daNm>	σ _f sup <daN/cm²>	σ _f inf <daN/cm²>	σ _c <daN/cm²>
1.15	18	SLE R	5	23.00	8.04	16.09	-43.52	38.70	-7.62	1.34
1.15	20	SLE Q	5	23.00	8.04	16.09	-40.52	36.03	-7.09	1.25
2.65	18	SLE R	12	0.00	8.04	8.04	131.24	-23.40	91.29	3.13
2.65	20	SLE Q	12	0.00	8.04	8.04	138.10	-24.62	96.06	3.30
3.65	18	SLE R	15	25.00	8.04	8.04	-206.64	143.74	-36.84	4.93
3.65	20	SLE Q	15	25.00	8.04	8.04	-204.19	142.03	-36.41	4.88
5.36	18	SLE R	23	0.00	8.04	8.04	-252.78	175.83	-45.07	6.04
5.36	20	SLE Q	23	0.00	8.04	8.04	-238.95	166.21	-42.60	5.71
9.19	18	SLE R	38	12.34	16.09	16.09	-180.79	64.50	-25.90	2.97
9.19	20	SLE Q	38	12.34	16.09	16.09	-167.03	59.59	-23.93	2.74
9.31	18	SLE R	38	24.69	16.09	16.09	-180.79	64.50	-25.90	2.97
9.31	20	SLE Q	38	24.69	16.09	16.09	-167.03	59.59	-23.93	2.74
11.66	18	SLE R	50	0.00	8.04	8.04	-658.21	457.84	-117.36	15.72
11.66	20	SLE Q	50	0.00	8.04	8.04	-650.43	452.43	-115.97	15.53

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg <m>	CC	TCC	El	Sez.	X <cm>	My <daNm>	c <mm>	s <mm>	K ₂	Φ _{eq}	Δ _{sm} <mm>	A _s <cm²>	A _{c eff} <cm²>	σ _s <daN/cm²>	ε _{sm}	Wk <mm>
19	1.15	20	SLE Q	5	13	23.00	-40.52	27.00	141.33	0.50	16.00	101.62	8.04	239.37	36.03	0.01	0.00
20	1.15	19	SLE F	5	13	23.00	-41.14	27.00	141.33	0.50	16.00	101.62	8.04	239.37	36.58	0.01	0.00
39	2.65	20	SLE Q	12	10	0.00	138.10	27.00	141.33	0.50	16.00	110.47	8.04	283.86	96.06	0.03	0.01
40	2.65	19	SLE F	12	10	0.00	136.06	27.00	141.33	0.50	16.00	110.47	8.04	283.86	94.64	0.03	0.01
59	3.65	20	SLE Q	15	10	25.00	-204.19	27.00	141.33	0.50	16.00	110.47	8.04	283.86	142.03	0.04	0.01
60	3.65	19	SLE F	15	10	25.00	-204.19	27.00	141.33	0.50	16.00	110.47	8.04	283.86	142.03	0.04	0.01
79	5.36	20	SLE Q	23	10	0.00	-238.95	27.00	141.33	0.50	16.00	110.47	8.04	283.86	166.21	0.05	0.01
80	5.36	19	SLE F	23	10	0.00	-241.94	27.00	141.33	0.50	16.00	110.47	8.04	283.86	168.29	0.05	0.01
99	9.19	20	SLE Q	38	10	12.34	-167.03	27.00	60.57	0.50	16.00	79.91	16.09	260.50	59.59	0.02	0.00
100	9.19	19	SLE F	38	10	12.34	-169.35	27.00	60.57	0.50	16.00	79.91	16.09	260.50	60.42	0.02	0.00
119	9.31	20	SLE Q	38	10	24.69	-167.03	27.00	60.57	0.50	16.00	79.91	16.09	260.50	59.59	0.02	0.00
120	9.31	19	SLE F	38	10	24.69	-169.35	27.00	60.57	0.50	16.00	79.91	16.09	260.50	60.42	0.02	0.00
139	11.66	20	SLE Q	50	10	0.00	-650.43	27.00	141.33	0.50	16.00	110.47	8.04	283.86	452.43	0.13	0.02
140	11.66	19	SLE F	50	10	0.00	-650.71	27.00	141.33	0.50	16.00	110.47	8.04	283.86	452.63	0.13	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.
13 SND	0.04	0.95	0.91	ø10/10 2 br.	15.71	0.50	1539.68	2.50	22819.20	24084.30	22819.20	14.821
13 SND	0.95	1.15	0.20	ø10/10 2 br.	15.71	0.50	1586.67	2.50	22819.20	24084.30	22819.20	14.382
13 SND	2.65	2.89	0.24	ø10/10 2 br.	15.71	0.50	5880.29	2.50	28351.20	29922.90	28351.20	4.821
13 SND	2.89	3.41	0.52	ø10/10 2 br.	15.71	0.50	4552.16	2.50	28351.20	29922.90	28351.20	6.228
13 SND	3.41	3.65	0.24	ø10/10 2 br.	15.71	0.50	7674.47	2.50	28351.20	29922.90	28351.20	3.694
5 SND	5.36	5.60	0.24	ø10/10 2 br.	15.71	0.50	6955.71	2.50	28351.20	29922.90	28351.20	4.076
5 SND	5.60	9.07	3.47	ø10/10 2 br.	15.71	0.50	3636.16	2.50	28351.20	29922.90	28351.20	7.797
13 SND	9.07	9.31	0.24	ø10/10 2 br.	15.71	0.50	6847.53	2.50	28351.20	29922.90	28351.20	4.140
5 SND	11.66	11.90	0.24	ø10/10 2 br.	15.71	0.50	8067.11	2.50	28351.20	29922.90	28351.20	3.514
5 SND	11.90	15.21	3.31	ø10/10 2 br.	15.71	0.50	4282.80	2.50	28351.20	29922.90	28351.20	6.620
9 SND	15.21	15.41	0.20	ø10/10 2 br.	15.71	0.50	516.43	2.50	22819.20	24084.30	22819.20	44.187
1 SND	15.41	16.32	0.91	ø10/10 2 br.	15.71	0.50	485.83	2.50	22819.20	24084.30	22819.20	46.970

Travata n. 518

Nodi: -681 4046 -37581 -37580 -37579 -37578 -37577 -37576 -37575 -37574 -682

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>
11R		40.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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	17	SLU	1	40.00	8.04	8.04	8.04	8.04	-157.79	-5796.19	36.734

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.40	13	SND	1	40.00	8.04	8.04	8.04	8.04	5082.07	5575.13	1.097

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	My <daNm>	σ _e sup <daN/cmq>	σ _e inf <daN/cmq>	σ _c <daN/cmq>
0.40	18	SLE R	1	40.00	8.04	8.04	-107.15	75.20	-22.59	2.85
0.40	20	SLE Q	1	40.00	8.04	8.04	-70.36	49.38	-14.84	1.87

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>
21	0.40	20	SLE Q	1	11	40.00	-70.36	27.00	108.00	0.50	16.00	97.96	8.04	220.97	49.38	0.01	0.00
23	0.40	19	SLE F	1	11	40.00	-78.82	27.00	108.00	0.50	16.00	97.96	8.04	220.97	55.32	0.02	0.00

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 SND	0.04	0.40	0.36	ø10/15 2 br.	10.47	0.40	18500.60	2.50	18900.80	23938.30	18900.80	1.022

Travata n. 520

Nodi: 4029 -20528 -20529 -20530 -20531 4030 -16474 -16473 -16472 -16471 -16470 4031 -16499 -16498 -16497 -29338 -29418 -16493 4032 -16525 -16524 4033 4034 4040 4041 -20181 -20182 -20183 -20184 4042

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>
16R		80.00	20.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
9R		80.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
10R		50.00	24.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Xg <m>	CC	TCC	El	X <cm>	AfE S <cmq>	AfE I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <daNm>	MRdy <daNm>	Sic.
1.15	17	SLU	5	23.00	10.05	20.11	10.05	20.11	-139.05	-5979.12	42.999
2.65	17	SLU	12	0.00	18.10	10.05	18.10	10.05	739.20	7242.16	9.797
3.65	17	SLU	14	50.00	8.04	10.05	8.04	10.05	-636.09	-5901.09	9.277
5.36	17	SLU	22	0.00	8.04	10.05	8.04	10.05	-1570.20	-5901.09	3.758
8.59	17	SLU	22	323.45	8.04	10.05	8.04	10.05	-607.21	-5901.09	9.718
9.31	17	SLU	22	395.00	16.09	20.11	16.09	20.11	-1770.83	-11258.00	6.357
10.11	17	SLU	23	80.00	16.09	20.11	16.09	20.11	-76.76	-11258.00	>100
11.41	17	SLU	23	210.00	8.04	10.05	8.04	10.05	-457.51	-5901.09	12.898
11.66	17	SLU	24	0.00	8.04	10.05	8.04	10.05	-1610.97	-5901.09	3.663

Stato limite elastico - Verifiche a flessione/pressoflessione

Xg	CC	TCC	El	X	AfE S	AfE I	AfEP S	AfEP I	My	M'ydy	Sic.
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Relazione di calcolo

<m>				<cm>	<cmq>	<cmq>	<cmq>	<cmq>	<daNm>	<daNm>	
1.15	5	SND	5	23.00	10.05	20.11	10.05	20.11	-741.40	-5597.91	7.550
2.65	5	SND	12	0.00	18.10	10.05	18.10	10.05	5986.92	6972.11	1.165
3.65	5	SND	14	50.00	8.04	10.05	8.04	10.05	-5401.17	-5633.70	1.043
5.36	13	SND	22	0.00	8.04	10.05	8.04	10.05	-3490.78	-5633.70	1.614
8.59	5	SND	22	323.45	8.04	10.05	8.04	10.05	-2482.47	-5633.70	2.269
9.31	5	SND	22	395.00	16.09	20.11	16.09	20.11	-3872.34	-10947.90	2.827
10.11	13	SND	23	80.00	16.09	20.11	16.09	20.11	-4338.09	-10947.90	2.524
11.41	1	SND	23	210.00	8.04	10.05	8.04	10.05	-3504.90	-5633.70	1.607
11.66	9	SND	24	0.00	8.04	10.05	8.04	10.05	-2444.75	-5633.70	2.304

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>
1.15	18	SLE R	5	23.00	10.05	20.11	-108.99	76.56	-12.51	2.43
1.15	20	SLE Q	5	23.00	10.05	20.11	-104.36	73.30	-11.98	2.33
2.65	18	SLE R	12	0.00	18.10	10.05	535.80	-73.07	301.26	10.01
2.65	20	SLE Q	12	0.00	18.10	10.05	574.57	-78.36	323.06	10.73
3.65	18	SLE R	14	50.00	8.04	10.05	-463.31	322.51	-77.64	10.67
3.65	20	SLE Q	14	50.00	8.04	10.05	-484.98	337.59	-81.27	11.17
5.36	18	SLE R	22	0.00	8.04	10.05	-1167.32	812.56	-195.62	26.88
5.36	20	SLE Q	22	0.00	8.04	10.05	-1019.85	709.91	-170.91	23.48
8.59	18	SLE R	22	323.45	8.04	10.05	-453.00	315.33	-75.91	10.43
8.59	20	SLE Q	22	323.45	8.04	10.05	-386.67	269.16	-64.80	8.90
9.31	18	SLE R	22	395.00	16.09	20.11	-1319.33	470.31	-172.51	20.32
9.31	20	SLE Q	22	395.00	16.09	20.11	-1137.66	405.55	-148.76	17.53
10.11	18	SLE R	23	80.00	16.09	20.11	-68.86	24.55	-9.00	1.06
10.11	20	SLE Q	23	80.00	16.09	20.11	-91.48	32.61	-11.96	1.41
11.41	18	SLE R	23	210.00	8.04	10.05	-328.85	228.91	-55.11	7.57
11.41	20	SLE Q	23	210.00	8.04	10.05	-275.86	192.02	-46.23	6.35
11.66	18	SLE R	24	0.00	8.04	10.05	-1188.50	827.31	-199.17	27.37
11.66	20	SLE Q	24	0.00	8.04	10.05	-1062.72	739.75	-178.09	24.47

Stato limite d'esercizio - Verifiche a fessurazione

Caso	Xg	CC	TCC	El	Sez.	X	My	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _c eff	σ _s	ε _{sm}	Wk
	<m>					<cm>	<daNm>	<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cmq>		<mm>
21	1.15	20	SLE Q	5	16	23.00	-104.36	27.00	181.00	0.50	16.00	116.28	10.05	391.32	73.30	0.02	0.00
23	1.15	19	SLE F	5	16	23.00	-105.29	27.00	181.00	0.50	16.00	116.28	10.05	391.32	73.96	0.02	0.00
43	2.65	20	SLE Q	12	10	0.00	574.57	27.00	106.00	0.50	16.00	99.58	10.05	286.36	323.06	0.09	0.02
44	2.65	19	SLE F	12	10	0.00	566.38	27.00	106.00	0.50	16.00	99.58	10.05	286.36	318.45	0.09	0.02
63	3.65	20	SLE Q	14	10	50.00	-484.98	27.00	141.33	0.50	16.00	111.03	8.04	286.69	337.59	0.10	0.02
64	3.65	19	SLE F	14	10	50.00	-480.16	27.00	141.33	0.50	16.00	111.03	8.04	286.69	334.24	0.10	0.02
84	5.36	20	SLE Q	22	10	0.00	-1019.85	27.00	141.33	0.50	16.00	111.03	8.04	286.69	709.91	0.21	0.04
85	5.36	19	SLE F	22	10	0.00	-1049.69	27.00	141.33	0.50	16.00	111.03	8.04	286.69	730.68	0.21	0.04
106	8.59	20	SLE Q	22	10	323.45	-386.67	27.00	141.33	0.50	16.00	111.03	8.04	286.69	269.16	0.08	0.01
108	8.59	19	SLE F	22	10	323.45	-399.63	27.00	141.33	0.50	16.00	111.03	8.04	286.69	278.18	0.08	0.02
129	9.31	20	SLE Q	22	10	395.00	-1137.66	27.00	60.57	0.50	16.00	80.42	16.09	265.63	405.55	0.12	0.02
130	9.31	19	SLE F	22	10	395.00	-1173.60	27.00	60.57	0.50	16.00	80.42	16.09	265.63	418.36	0.12	0.02
149	10.11	20	SLE Q	23	10	80.00	-91.48	27.00	60.57	0.50	16.00	80.42	16.09	265.63	32.61	0.01	0.00
150	10.11	19	SLE F	23	10	80.00	-85.96	27.00	60.57	0.50	16.00	80.42	16.09	265.63	30.64	0.01	0.00
169	11.41	20	SLE Q	23	10	210.00	-275.86	27.00	141.33	0.50	16.00	111.03	8.04	286.69	192.02	0.06	0.01
170	11.41	19	SLE F	23	10	210.00	-286.92	27.00	141.33	0.50	16.00	111.03	8.04	286.69	199.72	0.06	0.01
190	11.66	20	SLE Q	24	10	0.00	-1062.72	27.00	141.33	0.50	16.00	111.03	8.04	286.69	739.75	0.22	0.04
191	11.66	19	SLE F	24	10	0.00	-1087.33	27.00	141.33	0.50	16.00	111.03	8.04	286.69	756.88	0.22	0.04

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>	
5 SND	0.04	0.95	0.91	ø10/10 2 br.	15.71	0.80	3378.94	2.50	22819.20	38534.90	22819.20	6.753
5 SND	0.95	1.15	0.20	ø10/10 2 br.	15.71	0.80	3454.12	2.50	22819.20	38534.90	22819.20	6.606
5 SND	2.65	2.89	0.24	ø10/10 2 br.	15.71	0.50	12946.20	2.50	28351.20	29922.90	28351.20	2.190
5 SND	2.89	3.41	0.52	ø10/10 2 br.	15.71	0.50	12947.80	2.50	28351.20	29922.90	28351.20	2.190
5 SND	3.41	3.65	0.24	ø10/10 2 br.	15.71	0.50	12706.30	2.50	28351.20	29922.90	28351.20	2.231
13 SND	5.36	5.60	0.24	ø10/10 2 br.	15.71	0.50	3019.45	2.50	28351.20	29922.90	28351.20	9.390
5 SND	5.60	9.07	3.47	ø10/10 2 br.	15.71	0.50	2868.69	2.50	28351.20	29922.90	28351.20	9.883
5 SND	9.07	9.31	0.24	ø10/10 2 br.	15.71	0.50	3079.10	2.50	28351.20	29922.90	28351.20	9.208
13 SND	10.11	10.35	0.24	ø10/10 2 br.	15.71	0.50	5897.64	2.50	28351.20	29922.90	28351.20	4.807
5 SND	10.35	11.17	0.82	ø10/10 2 br.	15.71	0.50	6049.96	2.50	28351.20	29922.90	28351.20	4.686
5 SND	11.17	11.41	0.24	ø10/16 2 br.	9.82	0.50	6181.30	2.50	17719.50	29922.90	17719.50	2.867
17 SLU	11.66	11.90	0.24	ø10/10 2 br.	15.71	0.50	2550.11	2.50	28351.20	29922.90	28351.20	11.118
17 SLU	11.90	15.21	3.31	ø10/10 2 br.	15.71	0.50	2262.98	2.50	28351.20	29922.90	28351.20	12.528
1 SND	15.21	15.41	0.20	ø10/10 2 br.	15.71	0.80	1529.70	2.50	22819.20	38534.90	22819.20	14.918
1 SND	15.41	16.32	0.91	ø10/10 2 br.	15.71	0.80	1454.52	2.50	22819.20	38534.90	22819.20	15.688

Travata n. 801

Nodi: -30785 -31318

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>
7R		25.00	28.00	3.50	3.50	C32/40	332.00	21.69	188.13	14.46	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.
0.25	17	SLU	1	25.00	6.03	6.03	6.03	6.03	-1027.48	-5236.93	5.097
3.27	17	SLU	1	327.00	6.03	6.03	6.03	6.03	-1105.98	-5236.93	4.735

Stato limite elastico - 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>	M'ydy <daNm>	Sic.
0.25	9	SND	1	25.00	6.03	6.03	6.03	6.03	-3845.23	-5047.11	1.313
3.27	1	SND	1	327.00	6.03	6.03	6.03	6.03	-3766.40	-5047.11	1.340

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>
0.25	18	SLE R	1	25.00	6.03	6.03	-694.10	537.88	-178.50	19.86
0.25	20	SLE Q	1	25.00	6.03	6.03	-698.64	541.40	-179.66	19.99
3.27	18	SLE R	1	327.00	6.03	6.03	-750.81	581.83	-193.08	21.48
3.27	20	SLE Q	1	327.00	6.03	6.03	-747.69	579.41	-192.28	21.39

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>
19	0.25	20	SLE Q	1	7	25.00	-698.64	27.00	89.00	0.50	16.00	96.59	6.03	160.56	541.40	0.16	0.03
20	0.25	19	SLE F	1	7	25.00	-697.35	27.00	89.00	0.50	16.00	96.59	6.03	160.56	540.40	0.16	0.03
39	3.27	20	SLE Q	1	7	327.00	-747.69	27.00	89.00	0.50	16.00	96.59	6.03	160.56	579.41	0.17	0.03
40	3.27	19	SLE F	1	7	327.00	-748.61	27.00	89.00	0.50	16.00	96.59	6.03	160.56	580.12	0.17	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.
9 SND	0.25	0.53	0.28	ø8/15 2 br.	6.70	0.25	4171.66	2.50	14456.80	17880.80	14456.80	3.465
9 SND	0.53	2.99	2.46	ø8/15 2 br.	6.70	0.25	3747.16	2.50	14456.80	17880.80	14456.80	3.858
1 SND	2.99	3.27	0.28	ø8/15 2 br.	6.70	0.25	4038.32	2.50	14456.80	17880.80	14456.80	3.580

Verifiche e armature pilastri

Simbologia

Δ _{sm}	=Distanza media tra le fessure
Φ _{eq}	=Diametro equivalente delle barre
α	=Angolo asse neutro a rottura
ε _v	=Deformazione nell'acciaio (*1000)
ε _{sm}	=Deformazione unitaria media dell'armatura (*1000)
λ	=Snellezza massima
λ*	=Snellezza limite
μΦ	=Valore di progetto della duttilità di curvatura
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
AfC	=Area di ferro compressa
AfT	=Area di ferro tesa
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 = Si
	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

Relazione di calcolo

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
K₂ = Coefficiente per distribuzione deformazioni
M = Momento flettente
M'ydy = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
M'ydy,s = Momento resistente massimo in campo sostanzialmente elastico (ridotto per stabilità) intorno all'asse Y
M'ydz = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Z
M'ydz,s = Momento resistente massimo in campo sostanzialmente elastico (ridotto per stabilità) intorno all'asse Z
MRd = Momento resistente allo stato limite ultimo
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
MRdy,s = Momento resistente allo stato limite ultimo (ridotto per stabilità) intorno all'asse Y
MRdz = Momento resistente allo stato limite ultimo intorno all'asse Z
MRdz,s = Momento resistente allo stato limite ultimo (ridotto per stabilità) 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
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
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
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
bw,y = Larghezza membratura resistente al taglio in dir. Y
bw,z = Larghezza membratura resistente al taglio in dir. Z
c = Ricoprimento dell'armatura
ctgθ_y = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo in dir. Y
ctgθ_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
l₀ = Lunghezza libera di inflessione
s = Distanza massima tra le barre

Pilastrata n. 1

Nodi: 1 1001 2001 3001

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
2R		25.00	80.00	4.50	C32/40	332.00	21.69	188.13	14.46	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 <daNm>	MRdz <daNm>	α <grad>	ε _y	Sic.
0.00	17(e)	SLU	1	2	0.00	-30701.90	-7973.47	-7973.47	88.73	-614.04	-30701.90	-73727.90	-5549.34	225.00	4.89	9.245
0.00	17(e)	SLU	1	2	0.00	-30701.90	-7973.47	-7973.47	88.73	-614.04	-30701.90	-73727.90	-5549.34	225.00	4.89	9.245
3.35	17(e)	SLU	1	2	335.50	-28521.20	-232.52	-570.42	101.44	570.42	-624097.00	-21131.40	21441.10	95.27	4.35	21.882
3.63	17(e)	SLU	2	2	0.00	-20371.40	5057.93	5057.93	-289.30	407.43	-20371.40	72215.90	5554.70	45.00	5.15	14.274
3.63	17(e)	SLU	2	2	0.00	-20371.40	5057.93	5057.93	-289.30	407.43	-20371.40	57684.20	5299.57	45.00	5.40	11.416
6.53	17(e)	SLU	2	2	289.50	-18489.60	-3060.34	-3060.34	294.01	-369.79	-18489.60	-55518.70	-6411.81	230.62	5.20	18.130
6.81	17(e)	SLU	3	2	0.00	-10135.80	1158.04	1158.04	-181.70	202.72	-10135.80	49130.00	9068.69	61.88	4.87	42.496
6.81	17(e)	SLU	3	2	0.00	-10135.80	1158.04	1158.04	-181.70	202.72	-10135.80	57234.50	9105.93	61.88	4.81	49.296
9.71	17(e)	SLU	3	2	290.00	-8250.84	-584.98	-584.98	45.23	165.02	-594594.00	-45386.50	13201.20	106.88	4.46	72.065

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 <daNm>	M'ydz <daNm>	α <grad>	ε _y	Sic.
0.00	1	SND	1	2	0.00	14381.60	-36012.60	-36012.60	-6213.16	-6213.16	14381.60	-37830.10	-6022.02	241.88	5.09	1.048
0.00	1	SND	1	2	0.00	14381.60	-36012.60	-36012.60	-6213.16	-6213.16	14381.60	-37830.10	-6022.02	241.88	5.09	1.048
3.35	9	SND	1	2	335.50	30310.90	2479.25	2479.25	-5470.06	-5470.06	30310.90	6816.80	-14711.70	272.11	7.11	2.700
3.63	9	SND	2	2	0.00	17474.10	13988.40	13988.40	10450.60	10450.60	17474.10	17481.20	13056.20	83.67	5.39	1.250
3.63	9	SND	2	2	0.00	17474.10	13988.40	13988.40	10450.60	10450.60	17474.10	14268.90	10390.00	83.67	6.45	1.011
6.53	9	SND	2	2	289.50	18921.60	-7385.46	-7385.46	-9503.43	-9503.43	18921.60	-9052.25	-11838.00	267.19	8.17	1.238
6.81	9	SND	3	2	0.00	4498.31	7995.92	7995.92	7782.14	7782.14	4498.31	12746.20	12136.30	85.08	6.46	1.577
6.81	9	SND	3	2	0.00	4498.31	7995.92	7995.92	7782.14	7782.14	4498.31	14067.90	13371.40	85.08	5.79	1.739
9.71	9	SND	3	2	290.00	5948.31	-29031.10	-29031.10	-8118.98	-8118.98	5948.31	-29765.20	-8530.27	253.12	4.76	1.027

Stato limite d'esercizio - Verifiche tensionali

Relazione di calcolo

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	18	SLE R	1	2	0.00	-22248.60	65.10	-5833.92	22.62	40.72	22.87	312.62
0.00	20	SLE Q	1	2	0.00	-20783.00	78.97	-5346.64	22.62	40.72	21.23	289.74
0.00	18	SLE R	1	2	0.00	-22248.60	65.10	-5833.92	22.62	40.72	22.87	312.62
0.00	20	SLE Q	1	2	0.00	-20783.00	78.97	-5346.64	22.62	40.72	21.23	289.74
3.35	18	SLE R	1	2	335.50	-20571.10	69.48	-96.09	0.00	63.33	7.76	112.89
3.35	20	SLE Q	1	2	335.50	-19105.50	43.02	-186.17	0.00	63.33	7.26	106.21
3.63	18	SLE R	2	2	0.00	-14928.80	-202.47	3567.17	18.10	45.24	15.87	211.19
3.63	20	SLE Q	2	2	0.00	-13744.30	-158.65	3463.52	18.10	45.24	14.88	198.89
3.63	18	SLE R	2	2	0.00	-14928.80	-202.47	3567.17	15.33	34.18	17.56	233.71
3.63	20	SLE Q	2	2	0.00	-13744.30	-158.65	3463.52	15.33	34.18	16.54	220.81
6.53	18	SLE R	2	2	289.50	-13481.30	206.39	-2112.45	4.52	44.99	12.28	164.61
6.53	20	SLE Q	2	2	289.50	-12296.80	162.28	-2085.38	4.52	44.99	11.45	154.22
6.81	18	SLE R	3	2	0.00	-7689.07	-129.54	783.97	0.00	49.51	5.91	79.26
6.81	20	SLE Q	3	2	0.00	-6796.02	-98.89	843.95	0.00	49.51	5.50	74.16
6.81	18	SLE R	3	2	0.00	-7689.07	-129.54	783.97	0.00	55.79	5.67	75.90
6.81	20	SLE Q	3	2	0.00	-6796.02	-98.89	843.95	0.00	55.79	5.25	70.78
9.71	18	SLE R	3	2	290.00	-6239.07	34.79	-435.81	0.00	55.79	3.54	49.67
9.71	20	SLE Q	3	2	290.00	-5346.02	20.82	-503.56	0.00	55.79	3.27	46.04

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	20	SLE Q	1	2	0.00	-20783.00	-5346.64	78.97	34.00	79.00	0.50	24.00	107.20	9.05	147.77	100.53	0.03	0.01
0.00	19	SLE F	1	2	0.00	-21140.70	-5466.57	74.12	34.00	79.00	0.50	24.00	94.91	13.57	152.17	103.24	0.03	0.00
0.00	20	SLE Q	1	2	0.00	-20783.00	-5346.64	78.97	34.00	79.00	0.50	24.00	107.20	9.05	147.77	100.53	0.03	0.01
0.00	19	SLE F	1	2	0.00	-21140.70	-5466.57	74.12	34.00	79.00	0.50	24.00	94.91	13.57	152.17	103.24	0.03	0.00
3.63	20	SLE Q	2	2	0.00	-13744.30	3463.52	-158.65	34.00	79.00	0.50	24.00	111.64	4.52	82.26	73.15	0.02	0.00
3.63	19	SLE F	2	2	0.00	-14018.90	3488.34	-172.02	34.00	79.00	0.50	24.00	108.91	4.52	77.11	73.17	0.02	0.00
3.63	20	SLE Q	2	2	0.00	-13744.30	3463.52	-158.65	34.00	158.00	0.50	24.00	121.10	4.52	100.09	91.20	0.03	0.01
3.63	19	SLE F	2	2	0.00	-14018.90	3488.34	-172.02	34.00	158.00	0.50	24.00	117.51	4.52	93.33	90.96	0.03	0.01

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	Sic.
<m>	<m>						<m>	<m>	<daN>		<daN>	<daN>	<daN>	<m>	<m>	<daN>		<daN>	<daN>	<daN>	
0.00	0.80	ø8/24	2	217	SLU	0.80	0.21	3.79	2.50	7597.19	52035.90	7597.19	0.25	0.76	2307.29	2.50	27881.00	59677.00	27881.00	12.084	
0.00	0.80	ø8/24	2	21	SND	0.80	0.21	3507.93	2.50	7597.19	57086.10	7597.19	0.25	0.76	10050.60	2.50	27881.00	65468.90	27881.00	2.166	
0.00	0.80	ø8/24	2	29	SND	0.80	0.21	3529.35	2.50	7597.19	55263.80	7597.19	0.25	0.76	7485.95	2.50	27881.00	63379.00	27881.00	2.153	
0.80	2.56	ø8/24	2	217	SLU	0.80	0.21	3.79	2.50	7597.19	51969.40	7597.19	0.25	0.76	2307.29	2.50	27881.00	59600.80	27881.00	12.084	
0.80	2.56	ø8/24	2	21	SND	0.80	0.21	3507.93	2.50	7597.19	57034.90	7597.19	0.25	0.76	10050.70	2.50	27881.00	65410.20	27881.00	2.166	
0.80	2.56	ø8/24	2	29	SND	0.80	0.21	3529.35	2.50	7597.19	55212.70	7597.19	0.25	0.76	7485.96	2.50	27881.00	63320.30	27881.00	2.153	
2.56	3.35	ø8/24	2	217	SLU	0.80	0.21	3.79	2.50	7597.19	51823.50	7597.19	0.25	0.76	2307.29	2.50	27881.00	59433.50	27881.00	12.084	
2.56	3.35	ø8/24	2	21	SND	0.80	0.21	3507.93	2.50	7597.19	56922.70	7597.19	0.25	0.76	10050.70	2.50	27881.00	65281.50	27881.00	2.166	
2.56	3.35	ø8/24	2	29	SND	0.80	0.21	3529.35	2.50	7597.19	55100.50	7597.19	0.25	0.76	7485.96	2.50	27881.00	63191.70	27881.00	2.153	
3.63	4.43	ø8/24	2	217	SLU	0.80	0.21	201.49	2.50	7597.19	50715.00	7597.19	0.25	0.76	2804.24	2.50	27881.00	58162.20	27881.00	9.942	
3.63	4.43	ø8/24	2	213	SND	0.80	0.21	6839.56	2.50	7597.19	52739.20	7597.19	0.25	0.76	7099.02	2.50	27881.00	60483.60	27881.00	1.111	
3.63	4.43	ø8/24	2	21	SND	0.80	0.21	7114.28	2.50	7597.19	53859.30	7597.19	0.25	0.76	5438.61	2.50	27881.00	61768.20	27881.00	1.068	
4.43	5.73	ø8/24	2	217	SLU	0.80	0.21	201.49	2.50	7597.19	50648.50	7597.19	0.25	0.76	2804.24	2.50	27881.00	58085.90	27881.00	9.942	
4.43	5.73	ø8/24	2	213	SND	0.80	0.21	6839.56	2.50	7597.19	52688.00	7597.19	0.25	0.76	7099.02	2.50	27881.00	60425.00	27881.00	1.111	
4.43	5.73	ø8/24	2	21	SND	0.80	0.21	7114.28	2.50	7597.19	53808.10	7597.19	0.25	0.76	5438.62	2.50	27881.00	61709.60	27881.00	1.068	
5.73	6.53	ø8/24	2	217	SLU	0.80	0.21	201.49	2.50	7597.19	50540.80	7597.19	0.25	0.76	2804.24	2.50	27881.00	57962.50	27881.00	9.942	
5.73	6.53	ø8/24	2	213	SND	0.80	0.21	6839.56	2.50	7597.19	52605.30	7597.19	0.25	0.76	7099.02	2.50	27881.00	60330.10	27881.00	1.111	
5.73	6.53	ø8/24	2	21	SND	0.80	0.21	7114.28	2.50	7597.19	53725.30	7597.19	0.25	0.76	5438.62	2.50	27881.00	61614.60	27881.00	1.068	
6.81	7.61	ø8/24	2	217	SLU	0.80	0.21	78.25	2.50	7597.19	49406.20	7597.19	0.25	0.76	601.04	2.50	27881.00	56661.30	27881.00	46.388	
6.81	7.61	ø8/24	2	29	SND	0.80	0.21	5483.10	2.50	7597.19	50085.40	7597.19	0.25	0.76	12635.70	2.50	27881.00	57440.20	27881.00	1.386	
6.81	7.61	ø8/24	2	21	SND	0.80	0.21	5565.66	2.50	7597.19	50423.30	7597.19	0.25	0.76	11706.40	2.50	27881.00	57827.70	27881.00	1.365	
7.61	8.91	ø8/24	2	217	SLU	0.80	0.21	78.25	2.50	7597.19	49339.70	7597.19	0.25	0.76	601.04	2.50	27881.00	56585.00	27881.00	46.388	
7.61	8.91	ø8/24	2	29	SND	0.80	0.21	5483.10	2.50	7597.19	50034.20	7597.19	0.25	0.76	12635.70	2.50	27881.00	57381.50	27881.00	1.386	
7.61	8.91	ø8/24	2	21	SND	0.80	0.21	5565.66	2.50	7597.19	50372.20	7597.19	0.25	0.76	11706.40	2.50	27881.00	57769.00	27881.00	1.365	
8.91	9.71	ø8/24	2	217	SLU	0.80	0.21	78.25	2.50	7597.19	49231.70	7597.19	0.25	0.76	601.04	2.50	27881.00	56461.10	27881.00	46.388	
8.91	9.71	ø8/24	2	29	SND	0.80	0.21	5483.10	2.50	7597.19	49951.10	7597.19	0.25	0.76	12635.70	2.50	27881.00	57286.20	27881.00	1.386	
8.91	9.71	ø8/24	2	21	SND	0.80	0.21	5565.66	2.50	7597.19	50289.10	7597.19	0.25	0.76	11706.40	2.50	27881.00	57673.70	27881.00	1.365	

Pilastrata n. 2

Nodi: 2 1002 2002 3002 -665

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>
	2R	25.00	80.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
	2R	25.00	80.00	4.50	C32/40	332.00	21.69	188.13	14.46	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 <daNm>	MRdz <daNm>	α <grad>	ε _t	Sic.
0.00	17 (e)	SLU	1	2	0.00	-54921.10	173.62	1098.42	156.72	1098.42	-548371.00	17736.20	17968.60	84.38	4.20	9.985
0.00	17 (e)	SLU	1	2	0.00	-54921.10	173.62	1098.42	156.72	1098.42	-548371.00	17736.20	17968.60	84.38	4.20	9.985
3.35	17 (e)	SLU	1	2	335.50	-52740.40	1230.42	1230.42	309.46	1054.81	-548371.00	20190.40	17547.50	83.32	4.10	10.398
3.63	17	SLU	2	2	0.00	-42645.70	-2668.50	-2668.50	-1126.25	-1126.25	-42645.70	-33814.80	-13959.10	257.34	4.05	12.630
3.63	17	SLU	2	2	0.00	-42645.70	-2668.50	-2668.50	-1126.25	-1126.25	-42645.70	-25302.30	-10966.60	258.75	4.61	9.521
6.53	17	SLU	2	2	289.50	-40764.00	1891.28	1891.28	1310.39	1310.39	-40764.00	17995.10	12248.90	82.97	5.20	9.461
6.81	17	SLU	3	2	0.00	-28493.80	-1595.62	-1595.62	-1641.48	-1641.48	-28493.80	-11335.00	-11761.30	266.48	7.03	1.735
6.81	17	SLU	3	2	0.00	-28493.80	-1595.62	-1595.62	-1641.48	-1641.48	-28493.80	-19530.30	-19872.70	264.73	4.68	12.172
9.71	17	SLU	3	2	290.00	-26608.80	1518.14	1518.14	1625.44	1625.44	-26608.80	18603.10	19856.50	85.08	4.81	12.234
9.99	17	SLU	4	2	0.00	-18106.80	-1036.16	-1036.16	-2276.97	-2276.97	-18106.80	-9247.28	-20067.10	267.71	5.84	8.831
11.41	17 (e)	SLU	4	2	142.46	-17180.80	-54.58	343.62	1021.73	1021.73	-17180.80	6760.08	20131.20	88.24	6.08	19.700

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 <daNm>	M'ydz <daNm>	α <grad>	ε _y	Sic.
0.00	13	SND	1	2	0.00	-7645.02	31897.90	31897.90	3558.90	3558.90	-7645.02	33845.30	3761.72	50.62	5.95	1.061
0.00	13	SND	1	2	0.00	-7645.02	31897.90	31897.90	3558.90	3558.90	-7645.02	33845.30	3761.72	50.62	5.95	1.061
3.35	5	SND	1	2	335.50	-11264.40	2297.51	2297.51	2149.52	2149.52	-11264.40	12027.10	11608.90	85.08	5.82	5.313
3.63	5	SND	2	2	0.00	-10144.60	-14442.10	-14442.10	-5035.29	-5035.29	-10144.60	-23838.60	-8594.57	255.94	4.79	1.657
3.63	5	SND	2	2	0.00	-10144.60	-14442.10	-14442.10	-5035.29	-5035.29	-10144.60	-17909.10	-6308.49	257.34	5.69	1.241
6.53	5	SND	2	2	289.50	-8697.10	7283.85	7283.85	4604.60	4604.60	-8697.10	10459.10	6816.23	85.08	7.52	1.449
6.81	5	SND	3	2	0.00	-7038.50	-12276.80	-12276.80	-4438.75	-4438.75	-7038.50	-16485.10	-6247.20	258.75	5.96	1.350
6.81	1	SND	3	2	0.00	-7612.02	-12418.30	-12418.30	-4383.58	-4383.58	-7612.02	-29142.80	-10470.90	255.94	4.47	2.351
9.71	1	SND	3	2	290.00	-6162.02	38600.50	38600.50	5289.36	5289.36	-6162.02	40301.20	5132.74	56.25	5.20	1.043
9.99	9	SND	4	2	0.00	-1161.72	-39225.60	-39225.60	-4662.34	-4662.34	-1161.72	-39315.10	-5062.90	236.25	5.34	1.004
11.41	13	SND	4	2	142.46	156.60	-1708.18	-1708.18	2017.29	2017.29	156.60	-11725.40	14310.90	93.87	5.96	6.999

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	18	SLE	R	1	2	0.00	-39937.10	122.43	182.84	0.00	43.98	16.58	242.18
0.00	20	SLE	Q	1	2	0.00	-37399.80	136.56	174.54	0.00	43.98	15.73	228.80
0.00	18	SLE	R	1	2	0.00	-39937.10	122.43	182.84	0.00	43.98	16.58	242.18
0.00	20	SLE	Q	1	2	0.00	-37399.80	136.56	174.54	0.00	43.98	15.73	228.80
3.35	18	SLE	R	1	2	335.50	-38259.60	211.25	820.74	0.00	43.98	18.41	262.76
3.35	20	SLE	Q	1	2	335.50	-35722.30	169.94	822.14	0.00	43.98	17.10	244.95
3.63	18	SLE	R	2	2	0.00	-31184.90	-797.92	-1828.44	0.00	43.98	23.59	308.71
3.63	20	SLE	Q	2	2	0.00	-28979.40	-697.64	-1793.71	0.00	43.98	21.79	286.43
3.63	18	SLE	R	2	2	0.00	-31184.90	-797.92	-1828.44	0.00	26.14	25.88	336.83
3.63	20	SLE	Q	2	2	0.00	-28979.40	-697.64	-1793.71	0.00	26.14	23.89	312.52
6.53	18	SLE	R	2	2	289.50	-29737.40	933.35	1273.03	0.00	26.14	25.02	319.43
6.53	20	SLE	Q	2	2	289.50	-27531.90	817.00	1276.43	0.00	26.14	22.99	295.07
6.81	18	SLE	R	3	2	0.00	-21088.30	-1172.52	-1081.24	6.53	19.60	23.96	287.19
6.81	20	SLE	Q	3	2	0.00	-19394.30	-1024.81	-1048.62	4.52	21.61	21.53	260.06
6.81	18	SLE	R	3	2	0.00	-21088.30	-1172.52	-1081.24	10.81	44.99	20.24	242.75
6.81	20	SLE	Q	3	2	0.00	-19394.30	-1024.81	-1048.62	7.67	48.13	18.21	220.03
9.71	18	SLE	R	3	2	290.00	-19638.30	1160.40	1051.32	10.81	44.99	19.70	234.40
9.71	20	SLE	Q	3	2	290.00	-17944.30	1011.87	978.36	10.81	44.99	17.54	210.07
9.99	18	SLE	R	4	2	0.00	-13598.40	-1623.27	-789.83	27.90	27.90	23.47	244.99
9.99	20	SLE	Q	4	2	0.00	-12399.50	-1393.54	-857.70	27.90	27.90	20.83	221.28
11.41	18	SLE	R	4	2	142.46	-12886.10	726.91	-43.29	0.00	55.79	10.78	128.17
11.41	20	SLE	Q	4	2	142.46	-11687.20	620.31	-21.50	0.00	55.79	9.35	112.36

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>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <m>	d _z <m>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.80	ø8/24	2	21	SLU		0.80	0.21	45.53	2.50	7597.19	55132.60	7597.19	0.25	0.76	314.99	2.50	27881.00	63228.50	27881.00	88.513
0.00	0.80	ø8/24	2	21	SND		0.80	0.21	1603.51	2.50	7597.19	56611.20	7597.19	0.25	0.76	9649.16	2.50	27881.00	64924.20	27881.00	2.889
0.00	0.80	ø8/24	2	25	SND		0.80	0.21	1619.68	2.50	7597.19	56696.80	7597.19	0.25	0.76	9646.92	2.50	27881.00	65022.40	27881.00	2.890
0.80	2.56	ø8/24	2	21	SLU		0.80	0.21	45.53	2.50	7597.19	55066.10	7597.19	0.25	0.76	314.99	2.50	27881.00	63152.20	27881.00	88.513
0.80	2.56	ø8/24	2	21	SND		0.80	0.21	1603.51	2.50	7597.19	56560.00	7597.19	0.25	0.76	9649.16	2.50	27881.00	64865.60	27881.00	2.889
0.80	2.56	ø8/24	2	25	SND		0.80	0.21	1619.68	2.50	7597.19	56645.60	7597.19	0.25	0.76	9646.92	2.50	27881.00	64963.70	27881.00	2.890
2.56	3.35	ø8/24	2	21	SLU		0.80	0.21	45.53	2.50	7597.19	54920.20	7597.19	0.25	0.76	314.99	2.50	27881.00	62985.00	27881.00	88.513
2.56	3.35	ø8/24	2	21	SND		0.80	0.21	1603.51	2.50	7597.19	56447.80	7597.19	0.25	0.76	9649.16	2.50	27881.00	64736.90	27881.00	2.889
2.56	3.35	ø8/24	2	25	SND		0.80	0.21	1619.68	2.50	7597.19	56533.40	7597.19	0.25	0.76	9646.91	2.50	27881.00	64835.10	27881.00	2.890
3.63	4.43	ø8/18	4	21	SLU		0.80	0.21	841.67	2.50	20259.20	53563.00	20259.20	0.25	0.76	1575.05	2.50	37174.60	61428.40	37174.60	23.602
3.63	4.43	ø8/18	4	25	SND		0.80	0.21	3329.48	2.50	20259.20	54651.70	20259.20	0.25	0.76	7260.27	2.50	37174.60	62677.00	37174.60	5.120
4.43	5.73	ø8/18	4	21	SLU		0.80	0.21	841.67	2.50	20259.20	53496.50	20259.20	0.25	0.76	1575.05	2.50	37174.60	61352.20	37174.60	23.602
4.43	5.73	ø8/18	4	25	SND		0.80	0.21	3329.48	2.50	20259.20	54600.60	20259.20	0.25	0.76	7260.27	2.50	37174.60	62618.40	37174.60	5.120
5.73	6.53	ø8/18	4	21	SLU		0.80	0.21	841.67	2.50	20259.20	53388.90	20259.20	0.25	0.76	1575.05	2.50	37174.60	61228.80	37174.60	23.602
5.73	6.53	ø8/18	4	25	SND		0.80	0.21	3329.48	2.50	20259.20	54517.80	20259.20	0.25	0.76	7260.27	2.50	37174.60	62523.40	37174.60	5.120
6.81	7.61	ø8/18	2	21	SLU		0.80	0.21	1126.53	2.50	10129.60	51753.50	10129.60	0.25	0.76	1073.71	2.50	37174.60	59353.20	37174.60	8.992
6.81	7.61	ø8/18	2	21	SND		0.80	0.21	3335.30	2.50	10129.60	52242.40	10129.60	0.25	0.76	17512.90	2.50	37174.60	59913.90	37174.60	2.123
6.81	7.61	ø8/18	2	25	SND		0.80	0.21	3377.87	2.50	10129.60	52315.70	10129.60	0.25	0.76	17421.00	2.50	37174.60	59998.00	37174.60	2.134
7.61	8.91	ø8/24	2	21	SLU		0.80	0.21	1126.53	2.50	7597.19	51687.00	7597.19	0.25	0.76	1073.71	2.50	27881.00	59277.00	27881.00	6.744
7.61	8.91	ø8/24	2	21	SND		0.80	0.21	3335.30	2.50	7597.19	52191.20	7597.19	0.25	0.76	17512.90	2.50	27881.00	59855.20	27881.00	1.592
7.61	8.91	ø8/24	2	25	SND		0.80	0.21	3377.87	2.50	7597.19	52264.50	7597.19	0.25	0.76	17421.00	2.50	27881.00	59939.30	27881.00	1.600
8.91	9.71	ø8/24	2	21	SLU		0.80	0.21	1126.53	2.50	7597.19	51579.00	7597.19	0.25	0.76	1073.71	2.50	27881.00	59153.10	27881.00	6.744
8.91	9.71	ø8/24	2	21	SND		0.80	0.21	3335.30	2.50	7597.19	52108.10	7597.19	0.25	0.76	17512.90	2.50	27881.00	59759.90	27881.00	1.592
8.91	9.71	ø8/24	2	25	SND		0.80	0.21	3377.87	2.50	7597.19	52181.40	7597.19	0.25	0.76	17421.00	2.50	27881.00	59844.00	27881.00	1.600
9.99	11.41	ø8/24	2	21	SLU		0.80	0.21	2315.54	2.50	7597.19	50425.40	7597.19	0.25	0.76	689.02	2.50	27881.00	57830.10	27881.00	3.281
9.99	11.41	ø8/24	2	29	SND		0.80	0.21	4660.98	2.50	7597.19	51074.00	7597.19	0.25	0.76	26654.20	2.50	27881.00	58573.90	27881.00	1.046
9.99	11.41	ø8/24	2	21	SND		0.80	0.21	4742.00	2.50	7597.19	51151.40	7597.19	0.25	0.76	26535.00	2.50	27881.00	58662.80	27881.00	1.051

Pilastrata n. 3

Nodi: 3 1003 2003 3003 4003

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>
2R		25.00	80.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
2R		25.00	80.00	4.50	C32/40	332.00	21.69	188.13	14.46	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>
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Relazione di calcolo

3.63	17 (e)	SLU	2	2	0.00	-41530.80	976.73	976.73	-610.79	-830.62	-478546.00	14896.80	-12564.90	275.27	5.67	11.523
6.53	17	SLU	2	2	289.50	-39649.00	-875.95	-875.95	846.46	846.46	-478546.00	-12643.10	12560.70	94.22	6.11	12.070
6.81	17	SLU	3	2	0.00	-28809.70	1747.45	1747.45	-1199.23	-1199.23	-28809.70	16754.90	-11487.70	275.98	6.05	9.585
6.81	17	SLU	3	2	0.00	-28809.70	1747.45	1747.45	-1199.23	-1199.23	-28809.70	16754.90	-11487.70	275.98	6.05	9.585
9.71	17	SLU	3	2	290.00	-26924.70	-2759.54	-2759.54	1235.30	1235.30	-26924.70	-23300.40	10624.40	100.55	5.14	8.470
9.99	17 (e)	SLU	4	2	0.00	-19307.30	187.32	187.32	-701.53	-701.53	-19307.30	6142.63	-11157.00	271.58	9.04	15.905
9.99	17 (e)	SLU	4	2	0.00	-19307.30	187.32	187.32	-701.53	-701.53	-19307.30	4473.36	-8015.94	271.58	11.27	11.463
13.17	17 (e)	SLU	4	2	317.58	-17243.00	1479.04	1479.04	220.86	344.86	-17243.00	22579.70	5180.35	64.69	6.81	15.254

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 <daNm>	M'ydz <daNm>	α <grad>	ε _r	Sic.
0.00	5	SND	1	2	0.00	-4422.06	-29415.90	-29415.90	5361.19	5361.19	-4422.06	-30139.60	5084.42	118.12	5.37	1.022
0.00	5	SND	1	2	0.00	-4422.06	-29415.90	-29415.90	5361.19	5361.19	-4422.06	-30139.60	5084.42	118.12	5.37	1.022
3.35	5	SND	1	2	335.50	-2744.56	-3550.69	-3550.69	-3221.54	-3221.54	-2744.56	-11698.60	-10957.20	265.08	6.15	3.343
3.63	13	SND	2	2	0.00	-15101.90	13873.80	13873.80	-7020.74	-7020.74	-15101.90	20793.50	-10262.00	280.55	4.77	1.491
3.63	13	SND	2	2	0.00	-15101.90	13873.80	13873.80	-7020.74	-7020.74	-15101.90	14204.20	-7183.20	277.73	6.21	1.024
6.53	13	SND	2	2	289.50	-13654.40	-10020.80	-10020.80	6474.70	6474.70	-13654.40	-11604.80	7232.85	95.62	6.93	1.146
6.81	13	SND	3	2	0.00	-15305.40	5713.04	5713.04	-5568.37	-5568.37	-15305.40	8127.65	-8043.38	273.16	8.09	1.433
6.81	13	SND	3	2	0.00	-15305.40	5713.04	5713.04	-5568.37	-5568.37	-15305.40	8127.65	-8043.38	273.16	8.09	1.433
9.71	13	SND	3	2	290.00	-13855.40	-19205.20	-19205.20	6061.83	6061.83	-13855.40	-19441.00	6068.46	104.06	5.52	1.011
9.99	5	SND	4	2	0.00	-8463.03	13616.00	13616.00	-1130.26	-1130.26	-8463.03	28076.10	-2011.62	326.25	10.09	2.060
9.99	5	SND	4	2	0.00	-8463.03	13616.00	13616.00	-1130.26	-1130.26	-8463.03	16545.20	-1487.84	326.25	10.98	1.216
13.17	5	SND	4	2	317.58	-6875.12	8619.01	8619.01	-1501.77	-1501.77	-6875.12	14325.60	-2712.78	303.75	8.44	1.667

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	18	SLE R	1	2	0.00	-37711.90	332.96	1447.81	0.00	43.98	20.93	292.16
0.00	20	SLE Q	1	2	0.00	-35465.70	341.64	1461.72	0.00	43.98	20.20	280.73
0.00	18	SLE R	1	2	0.00	-37711.90	332.96	1447.81	0.00	43.98	20.93	292.16
0.00	20	SLE Q	1	2	0.00	-35465.70	341.64	1461.72	0.00	43.98	20.20	280.73
3.35	18	SLE R	1	2	335.50	-36034.40	-76.04	-1145.68	0.00	43.98	17.23	250.00
3.35	20	SLE Q	1	2	335.50	-33788.20	-99.79	-1130.82	0.00	43.98	16.56	238.85
3.63	18	SLE R	2	2	0.00	-30141.40	-417.24	613.35	0.00	43.98	16.64	227.41
3.63	20	SLE Q	2	2	0.00	-28171.20	-349.10	632.04	0.00	43.98	15.34	211.10
3.63	18	SLE R	2	2	0.00	-30141.40	-417.24	613.35	0.00	26.14	18.35	250.10
3.63	20	SLE Q	2	2	0.00	-28171.20	-349.10	632.04	0.00	26.14	16.93	232.20
6.53	18	SLE R	2	2	289.50	-28693.90	587.04	-553.72	0.00	26.14	19.22	254.34
6.53	20	SLE Q	2	2	289.50	-26723.70	499.59	-567.05	0.00	26.14	17.59	234.48
6.81	18	SLE R	3	2	0.00	-21092.80	-837.59	1202.34	0.00	26.14	20.39	254.88
6.81	20	SLE Q	3	2	0.00	-19582.50	-724.12	1201.56	0.00	26.14	18.62	234.62
6.81	18	SLE R	3	2	0.00	-21092.80	-837.59	1202.34	0.00	26.14	20.39	254.88
6.81	20	SLE Q	3	2	0.00	-19582.50	-724.12	1201.56	0.00	26.14	18.62	234.62
9.71	18	SLE R	3	2	290.00	-19642.80	862.22	-1952.23	4.52	21.61	22.67	281.46
9.71	20	SLE Q	3	2	290.00	-18132.50	747.70	-1915.51	4.52	21.61	20.73	259.16
9.99	18	SLE R	4	2	0.00	-14370.50	-485.75	115.70	0.00	26.14	11.02	138.91
9.99	20	SLE Q	4	2	0.00	-13072.30	-416.03	163.09	0.00	26.14	9.94	126.15
9.99	18	SLE R	4	2	0.00	-14370.50	-485.75	115.70	0.00	16.09	11.81	151.26
9.99	20	SLE Q	4	2	0.00	-13072.30	-416.03	163.09	0.00	16.09	10.66	137.44
13.17	18	SLE R	4	2	317.58	-12782.60	137.40	1092.85	0.00	16.09	10.65	147.10
13.17	20	SLE Q	4	2	317.58	-11484.40	110.47	917.26	0.00	16.09	9.23	128.02

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _{r,z} <cm>	d _{r,z} <cm>	Vsdu _{r,z} <daN>	ctgθ _r	VRsdu _r <daN>	VRcd _r <daN>	Vrd _r <daN>	bw _{r,z} <cm>	d _{r,z} <cm>	Vsdu _{r,z} <daN>	ctgθ _z	VRsdu _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.80	ø8/24	2	2	17	SLU	0.80	0.21	157.56	2.50	7597.19	54779.00	7597.19	0.25	0.76	1084.01	2.50	27881.00	62822.90	27881.00	25.720
0.00	0.80	ø8/24	2	2	13	SND	0.80	0.21	2294.53	2.50	7597.19	56614.30	7597.19	0.25	0.76	9487.46	2.50	27881.00	64927.80	27881.00	2.939
0.00	0.80	ø8/24	2	25	SND	0.80	0.21	2557.68	2.50	7597.19	55398.80	7597.19	0.25	0.76	7941.98	2.50	27881.00	63533.80	27881.00	2.970	
0.80	2.56	ø8/24	2	2	17	SLU	0.80	0.21	157.56	2.50	7597.19	54712.50	7597.19	0.25	0.76	1084.01	2.50	27881.00	62746.70	27881.00	25.720
0.80	2.56	ø8/24	2	2	13	SND	0.80	0.21	2294.53	2.50	7597.19	56563.10	7597.19	0.25	0.76	9487.46	2.50	27881.00	64869.10	27881.00	2.939
0.80	2.56	ø8/24	2	25	SND	0.80	0.21	2557.68	2.50	7597.19	55347.60	7597.19	0.25	0.76	7941.98	2.50	27881.00	63475.10	27881.00	2.970	
2.56	3.35	ø8/24	2	2	17	SLU	0.80	0.21	157.56	2.50	7597.19	54566.60	7597.19	0.25	0.76	1084.01	2.50	27881.00	62579.40	27881.00	25.720
2.56	3.35	ø8/24	2	2	13	SND	0.80	0.21	2294.53	2.50	7597.19	56450.90	7597.19	0.25	0.76	9487.46	2.50	27881.00	64740.40	27881.00	2.939
2.56	3.35	ø8/24	2	25	SND	0.80	0.21	2557.68	2.50	7597.19	55235.40	7597.19	0.25	0.76	7941.98	2.50	27881.00	63346.50	27881.00	2.970	
3.63	4.43	ø8/18	4	2	17	SLU	0.80	0.21	503.37	2.50	20259.20	53420.40	20259.20	0.25	0.76	639.96	2.50	37174.60	61265.00	37174.60	40.247
3.63	4.43	ø8/18	4	2	9	SND	0.80	0.21	4403.54	2.50	20259.20	54028.40	20259.20	0.25	0.76	8163.69	2.50	37174.60	61962.20	37174.60	4.554
3.63	4.43	ø8/18	4	2	13	SND	0.80	0.21	4661.23	2.50	20259.20	54134.80	20259.20	0.25	0.76	8158.28	2.50	37174.60	62084.20	37174.60	4.346
4.43	5.73	ø8/18	4	2	17	SLU	0.80	0.21	503.37	2.50	20259.20	53354.00	20259.20	0.25	0.76	639.96	2.50	37174.60	61188.70	37174.60	40.247
4.43	5.73	ø8/18	4	2	9	SND	0.80	0.21	4403.54	2.50	20259.20	53977.30	20259.20	0.25	0.76	8163.69	2.50	37174.60	61903.50	37174.60	4.554
4.43	5.73	ø8/18	4	2	13	SND	0.80	0.21	4661.23	2.50	20259.20	54083.70	20259.20	0.25	0.76	8158.28	2.50	37174.60	62025.60	37174.60	4.346
5.73	6.53	ø8/18	4	2	17	SLU	0.80	0.21	503.37	2.50	20259.20	53246.30	20259.20	0.25	0.76	639.96	2.50	37174.60	61065.30	37174.60	40.247
5.73	6.53	ø8/18	4	2	9	SND	0.80	0.21	4403.54	2.50	20259.20	53894.50	20259.20	0.25	0.76	8163.69	2.50	37174.60	61808.60	37174.60	4.554
5.73	6.53	ø8/18	4	2	13	SND	0.80	0.21	4661.23	2.50	20259.20	54000.90	20259.20	0.25	0.76	8158.28	2.50	37174.60	61930.60	37174.60	4.346
6.81	7.61	ø8/18	4	2	17	SLU	0.80	0.21	839.50	2.50	20259.20	51793.90	20259.20	0.25	0.76	1554.14	2.50	37174.60	59399.60	37174.60	23.920
6.81	7.61	ø8/18	4	2	13	SND	0.80	0.21	4009.90	2.50	20259.20	51406.10	20259.20	0.25	0.76	8411.24	2.50	37174.60	58954.80	37174.60	4.420
7.61	8.91	ø8/18	4	2	17	SLU	0.80	0.21	839.50	2.50	20259.20	51727.40	20259.20	0.25	0.76	1554.14	2.50	37174.60	59323.30	37174.60	23.920
7.61	8.91	ø8/18	4	2	13	SND	0.80	0.21	4009.90	2.50	20259.20	51355.00	20259.20	0.25	0.76	8411.24	2.50	37174.60	58896.20	37174.60	4.420
8.91	9.71	ø8/18	4	2	17	SLU	0.80	0.21	839.50	2.50	20259.20	51619.40	20259.20	0.25	0.76	1554.14	2.50	37174.60	59199.40	37174.60	23.920
8.91	9.71	ø8/18	4	2	13	SND	0.80	0.21	4009.90	2.50	20259.20	51271.80	20259.20	0.25	0.76	8411.24	2.50	37174.60	58800.80	37174.60	4.420
9.99	10.79	ø8/18	4	2	17	SLU	0.80	0.21	290.44	2.50	20259.20	50578.90	20259.20	0.25	0.76	406.74	2.50	37174.60	58006.20	37174.60	69.752
9.99	10.79	ø8/18	4	2	13	SND	0.80	0.21	895.90	2.50	20259.20	50371.00	20259.20	0.25	0.76	4173.28	2.50	37174.60	57767.80	37174.60	8.908
10.79	12.37	ø8/18	4	2	17	SLU	0.80	0.21	290.44	2.50	20259.20	50512.40	20259.20	0.25	0.76	406.74	2.50	37174.60	57929.90	37174.60	69.753
10.79	12.37	ø8/18	4	2	13	SND	0.80	0.21	895.90	2.50	20259.20	50319.90	20259.20	0.25	0.76	4173.25	2.50	37174.60	57709.10	37174.60	8.908
12.37	13.17	ø8/18	4	2	17	SLU	0.80	0.21	290.44	2.50	20259.20	50381.50	20259.20	0.25	0.76	406.73	2.50	37174.60	57779.70	37174.60	69.754
12.37	13.17	ø8/18	4	2	13	SND	0.80	0.21	895.89	2.50	20259.20	50219.10	20259.20	0.25	0.76	4173.20	2.50	37174.60	57593.60	37174.60	8.908

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
2R		25.00	80.00	4.50	C32/40	332.00	21.69	188.13	14.46	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 <daNm>	MRdz <daNm>	α <grad>	ε _r	Sic.	
3.63	17	(e)	SLU	2	2	0.00	-26234.20	-5449.26	-5449.26	-126.42	-524.68	-26234.20	-82751.20	-7218.69	236.25	4.42	15.173
3.63	17	(e)	SLU	2	2	0.00	-26234.20	-5449.26	-5449.26	-126.42	-524.68	-26234.20	-74603.10	-7801.98	236.25	4.47	13.702
6.53	17	(e)	SLU	2	2	289.50	-24352.50	2484.11	2484.11	148.25	487.05	-24352.50	63779.50	11902.30	67.50	4.08	25.630
6.81	17	(e)	SLU	3	2	0.00	-16529.20	-1465.00	-1465.00	-155.52	-330.58	-640816.00	-58561.20	-13172.10	250.31	4.14	38.769
6.81	17	(e)	SLU	3	2	0.00	-16529.20	-1465.00	-1465.00	-155.52	-330.58	-16529.20	-47335.10	10512.20	112.50	4.59	32.286
9.71	17	(e)	SLU	3	2	290.00	-14644.20	2236.79	2236.79	163.97	-292.88	-14644.20	54373.80	-7362.47	303.75	5.12	24.323
9.99	17		SLU	4	2	0.00	-9558.76	-764.84	-764.84	385.05	385.05	-9558.76	-30746.70	15033.80	101.25	4.67	39.969
9.99	17		SLU	4	2	0.00	-9558.76	-764.84	-764.84	385.05	385.05	-9558.76	-30746.70	15033.80	101.25	4.67	39.969
11.32	17		SLU	4	2	132.81	-8695.51	409.78	409.78	-916.97	-916.97	-8695.51	8244.58	-17818.70	272.46	6.47	19.548

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 <daNm>	M'ydz <daNm>	α <grad>	ε _r	Sic.
0.00	5	SND	1	2	0.00	57485.00	27677.10	27677.10	8331.26	8331.26	57485.00	28626.00	8590.39	75.94	5.15	1.034
0.00	5	SND	1	2	0.00	57485.00	27677.10	27677.10	8331.26	8331.26	57485.00	28626.00	8590.39	75.94	5.15	1.034
3.35	5	SND	1	2	335.50	59162.50	-4820.39	-4820.39	-6784.23	-6784.23	59162.50	-9252.75	-13337.20	266.66	6.74	1.950
3.63	5	SND	2	2	0.00	40701.40	-16206.10	-16206.10	12814.80	12814.80	40701.40	-18481.30	14821.40	94.22	6.04	1.147
3.63	5	SND	2	2	0.00	40701.40	-16206.10	-16206.10	12814.80	12814.80	40701.40	-16844.40	13395.70	94.92	6.27	1.042
6.53	5	SND	2	2	289.50	42148.90	13312.90	13312.90	-11545.20	-11545.20	42148.90	15467.00	-13383.50	274.22	6.59	1.161
6.81	13	SND	3	2	0.00	16392.50	-6725.67	-6725.67	-8343.33	-8343.33	16392.50	-12343.40	-15456.70	265.96	5.92	1.846
6.81	5	SND	3	2	0.00	23295.00	-6185.02	-6185.02	8209.94	8209.94	23295.00	-8717.42	11329.10	93.52	7.35	1.391
9.71	5	SND	3	2	290.00	24745.00	19470.30	19470.30	-7485.05	-7485.05	24745.00	20451.50	-7837.35	283.36	5.51	1.050
9.99	5	SND	4	2	0.00	9960.20	21647.20	21647.20	8631.99	8631.99	9960.20	21817.90	9121.79	77.34	5.12	1.015
9.99	5	SND	4	2	0.00	9960.20	21647.20	21647.20	8631.99	8631.99	9960.20	21817.90	9121.79	77.34	5.12	1.015
11.32	5	SND	4	2	132.81	10624.20	5677.17	5677.17	-8844.80	-8844.80	10624.20	8093.33	-12618.00	273.16	6.96	1.426

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
---	1	3.63	50.37	47.29
---	1	3.63	50.37	47.29
---	1	3.63	50.37	47.29

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	M'ydy,s <daNm>	MRdy,s <daNm>	M'ydz,s <daNm>	MRdz,s <daNm>	α <grad>	ε _r	Sic.	
0.00	17	(e)	SLU	1	2	0.00	-35656.60	9695.94	9695.94	372.00	713.13	-35656.60	83411.40	7152.50	83411.40	83411.40	7152.50	7152.50	56.25	4.23	8.611
0.00	17	(e)	SLU	1	2	0.00	-35656.60	9695.94	9695.94	372.00	713.13	-35656.60	83411.40	7152.50	83411.40	83411.40	7152.50	7152.50	56.25	4.23	8.611
3.35	17	(e)	SLU	1	2	335.50	-33475.80	-477.82	-669.52	-143.74	-669.52	-665402.00	-23981.50	-21709.60	-23981.50	-23981.50	-21709.60	-21709.60	263.67	3.80	19.877

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	18	SLE R	1	2	0.00	-25694.10	275.47	7088.94	27.52	46.37	27.25	361.93
0.00	20	SLE Q	1	2	0.00	-24252.90	286.50	6700.50	27.52	46.37	26.01	344.49
0.00	18	SLE R	1	2	0.00	-25694.10	275.47	7088.94	27.52	46.37	27.25	361.93
0.00	20	SLE Q	1	2	0.00	-24252.90	286.50	6700.50	27.52	46.37	26.01	344.49
3.35	18	SLE R	1	2	335.50	-24016.60	-112.97	-417.89	0.00	73.89	9.52	136.33
3.35	20	SLE Q	1	2	335.50	-22575.40	-137.17	-323.39	0.00	73.89	9.05	128.55
3.63	18	SLE R	2	2	0.00	-19046.80	-78.13	-3838.19	16.71	57.18	15.22	208.70
3.63	20	SLE Q	2	2	0.00	-17877.50	-35.15	-3712.36	16.71	57.18	14.22	196.16
3.63	18	SLE R	2	2	0.00	-19046.80	-78.13	-3838.19	13.57	54.04	15.84	217.71
3.63	20	SLE Q	2	2	0.00	-17877.50	-35.15	-3712.36	18.10	49.51	14.82	204.89
6.53	18	SLE R	2	2	289.50	-17599.30	95.02	1688.38	0.00	67.61	10.39	144.87
6.53	20	SLE Q	2	2	289.50	-16430.00	51.29	1654.77	0.00	67.61	9.58	134.76
6.81	18	SLE R	3	2	0.00	-12203.80	-106.23	-999.34	0.00	67.61	7.13	98.40
6.81	20	SLE Q	3	2	0.00	-11331.70	-66.70	-1036.62	0.00	67.61	6.62	92.20
6.81	18	SLE R	3	2	0.00	-12203.80	-106.23	-999.34	0.00	50.27	7.90	109.48
6.81	20	SLE Q	3	2	0.00	-11331.70	-66.70	-1036.62	0.00	50.27	7.34	102.75
9.71	18	SLE R	3	2	290.00	-10753.80	116.23	1619.93	3.14	47.12	9.11	124.33
9.71	20	SLE Q	3	2	290.00	-9881.74	79.33	1687.10	6.28	43.98	8.71	119.45
9.99	18	SLE R	4	2	0.00	-7199.16	285.05	-431.54	0.00	50.27	6.18	77.89
9.99	20	SLE Q	4	2	0.00	-6499.36	293.61	-338.23	3.14	47.12	5.78	71.82
9.99	18	SLE R	4	2	0.00	-7199.16	285.05	-431.54	0.00	50.27	6.18	77.89
9.99	20	SLE Q	4	2	0.00	-6499.36	293.61	-338.23	3.14	47.12	5.78	71.82
11.32	18	SLE R	4	2	132.81	-6535.12	-678.37	336.03	21.99	28.27	10.37	112.66
11.32	20	SLE Q	4	2	132.81	-5835.32	-640.56	314.63	21.99	28.27	9.75	104.89

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}	W _k <mm>
0.00	20	SLE Q	1		2 0.00	-24252.90	6700.50	286.50	34.00	76.42	0.50	23.31	107.11	4.52	75.90	134.61	0.04	0.01
0.00	19	SLE F	1		2 0.00	-24601.50	6796.78	282.26	34.00	76.42	0.50	23.31	107.46	4.52	76.58	135.64	0.04	0.01
0.00	20	SLE Q	1		2 0.00	-24252.90	6700.50	286.50	34.00	76.42	0.50	23.31	107.11	4.52	75.90	134.61	0.04	0.01
0.00	19	SLE F	1		2 0.00	-24601.50	6796.78	282.26	34.00	76.42	0.50	23.31	107.46	4.52	76.58	135.64	0.04	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>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <m>	d _z <m>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.80	ø8/24	2	21	SLU	0.80	0.21	153.72	2.50	7597.19	52669.40	7597.19	0.25	0.76	3032.42	2.50	27881.00	60403.60	27881.00	9.194	
0.00	0.80	ø8/24	2	21	SND	0.80	0.21	4252.57	2.50	7597.19	60137.80	7597.19	0.25	0.76	9922.34	2.50	27881.00	68968.70	27881.00	1.786	
0.00	0.80	ø8/24	2	25	SND	0.80	0.21	4505.13	2.50	7597.19	58965.30	7597.19	0.25	0.76	7479.66	2.50	27881.00	67624.10	27881.00	1.686	
0.80	2.56	ø8/24	2	21	SLU	0.80	0.21	153.72	2.50	7597.19	52602.90	7597.19	0.25	0.76	3032.42	2.50	27881.00	60327.30	27881.00	9.194	
0.80	2.56	ø8/24	2	21	SND	0.80	0.21	4252.57	2.50	7597.19	60137.80	7597.19	0.25	0.76	9922.34	2.50	27881.00	68968.70	27881.00	1.786	
0.80	2.56	ø8/24	2	25	SND	0.80	0.21	4505.13	2.50	7597.19	58914.20	7597.19	0.25	0.76	7479.66	2.50	27881.00	67565.40	27881.00	1.686	
2.56	3.35	ø8/24	2	21	SLU	0.80	0.21	153.72	2.50	7597.19	52457.00	7597.19	0.25	0.76	3032.42	2.50	27881.00	60160.10	27881.00	9.194	
2.56	3.35	ø8/24	2	21	SND	0.80	0.21	4252.57	2.50	7597.19	60137.80	7597.19	0.25	0.76	9922.34	2.50	27881.00	68968.70	27881.00	1.786	
2.56	3.35	ø8/24	2	25	SND	0.80	0.21	4505.13	2.50	7597.19	58802.00	7597.19	0.25	0.76	7479.66	2.50	27881.00	67436.80	27881.00	1.686	
3.63	4.43	ø8/20	2	21	SLU	0.80	0.21	94.88	2.50	9116.63	51464.60	9116.63	0.25	0.76	2740.37	2.50	33457.10	59021.90	33457.10	12.209	
3.63	4.43	ø8/20	2	21	SND	0.80	0.21	8007.30	2.50	9116.63	55652.20	9116.63	0.25	0.76	10102.60	2.50	33457.10	63824.40	33457.10	1.139	
3.63	4.43	ø8/20	2	21	SND	0.80	0.21	8474.18	2.50	9116.63	57886.10	9116.63	0.25	0.76	7954.16	2.50	33457.10	66386.40	33457.10	1.076	
4.43	5.73	ø8/20	2	21	SLU	0.80	0.21	94.88	2.50	9116.63	51398.10	9116.63	0.25	0.76	2740.37	2.50	33457.10	58945.70	33457.10	12.209	
4.43	5.73	ø8/20	2	21	SND	0.80	0.21	8007.30	2.50	9116.63	55601.10	9116.63	0.25	0.76	10102.60	2.50	33457.10	63765.80	33457.10	1.139	
4.43	5.73	ø8/20	2	21	SND	0.80	0.21	8474.18	2.50	9116.63	57835.00	9116.63	0.25	0.76	7954.17	2.50	33457.10	66327.70	33457.10	1.076	
5.73	6.53	ø8/20	2	21	SLU	0.80	0.21	94.88	2.50	9116.63	51290.50	9116.63	0.25	0.76	2740.37	2.50	33457.10	58822.20	33457.10	12.209	
5.73	6.53	ø8/20	2	21	SND	0.80	0.21	8007.30	2.50	9116.63	55518.30	9116.63	0.25	0.76	10102.60	2.50	33457.10	63670.80	33457.10	1.139	
5.73	6.53	ø8/20	2	21	SND	0.80	0.21	8474.18	2.50	9116.63	57752.20	9116.63	0.25	0.76	7954.17	2.50	33457.10	66232.80	33457.10	1.076	
6.81	7.61	ø8/24	2	21	SLU	0.80	0.21	110.17	2.50	7597.19	50223.70	7597.19	0.25	0.76	1276.48	2.50	27881.00	57598.80	27881.00	21.842	
6.81	7.61	ø8/24	2	25	SND	0.80	0.21	5411.84	2.50	7597.19	53104.00	7597.19	0.25	0.76	8637.97	2.50	27881.00	60902.10	27881.00	1.404	
6.81	7.61	ø8/24	2	21	SND	0.80	0.21	5512.55	2.50	7597.19	53986.60	7597.19	0.25	0.76	7935.42	2.50	27881.00	61914.20	27881.00	1.378	
7.61	8.91	ø8/24	2	21	SLU	0.80	0.21	110.17	2.50	7597.19	50157.20	7597.19	0.25	0.76	1276.48	2.50	27881.00	57522.50	27881.00	21.842	
7.61	8.91	ø8/24	2	25	SND	0.80	0.21	5411.84	2.50	7597.19	53052.90	7597.19	0.25	0.76	8637.97	2.50	27881.00	60843.40	27881.00	1.404	
7.61	8.91	ø8/24	2	21	SND	0.80	0.21	5512.55	2.50	7597.19	53935.40	7597.19	0.25	0.76	7935.42	2.50	27881.00	61855.60	27881.00	1.378	
8.91	9.71	ø8/24	2	21	SLU	0.80	0.21	110.17	2.50	7597.19	50049.20	7597.19	0.25	0.76	1276.48	2.50	27881.00	57398.60	27881.00	21.842	
8.91	9.71	ø8/24	2	25	SND	0.80	0.21	5411.84	2.50	7597.19	52969.80	7597.19	0.25	0.76	8637.97	2.50	27881.00	60748.10	27881.00	1.404	
8.91	9.71	ø8/24	2	21	SND	0.80	0.21	5512.55	2.50	7597.19	53852.30	7597.19	0.25	0.76	7935.42	2.50	27881.00	61760.30	27881.00	1.378	
9.99	11.32	ø10/20	2	21	SLU	0.80	0.21	980.38	2.50	14244.70	49332.40	14244.70	0.25	0.76	884.46	2.50	52276.80	56576.60	52276.80	14.530	
9.99	11.32	ø10/20	2	25	SND	0.80	0.21	13158.30	2.50	14244.70	50740.10	14244.70	0.25	0.76	18234.90	2.50	52276.80	58191.00	52276.80	1.083	

Pilastrata n. 5

Nodi: 5 1005 2005 3005 -666

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>
18R		25.00	30.00	4.50	C32/40	332.00	21.69	188.13	14.46	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 <daNm>	MRdz <daNm>	α <grad>	ε _y	Sic.
3.63	17	SLU	2	18	0.00	-39114.10	871.82	871.82	-2761.06	-2761.06	-39114.10	2932.24	-9711.07	286.88	2.71	3.503
3.63	17	SLU	2	18	0.00	-39114.10	871.82	871.82	-2761.06	-2761.06	-39114.10	2932.24	-9711.07	286.88	2.71	3.503
6.53	17	SLU	2	18	289.50	-38408.40	-853.13	-853.13	2703.40	2703.40	-38408.40	-2922.64	9700.77	106.88	2.74	3.574
6.81	17	SLU	3	18	0.00	-10654.00	605.39	605.39	-2326.15	-2326.15	-10654.00	2136.18	-8834.67	281.25	4.82	3.781
6.81	17	SLU	3	18	0.00	-10654.00	605.39	605.39	-2326.15	-2326.15	-10654.00	2136.18	-8834.67	281.25	4.82	3.781
9.71	17	SLU	3	18	290.00	-9947.17	-344.92	-344.92	1805.67	1805.67	-9947.17	-1718.91	8840.63	98.44	5.27	4.899
9.99	17	SLU	4	18	0.00	-1479.29	183.72	183.72	-2608.58	-2608.58	-1479.29	688.63	-8240.25	272.81	7.28	3.162
11.41	17	SLU	4	18	142.46	-1132.04	-64.02	-64.02	2148.85	2148.85	-1132.04	-137.27	8185.81	90.70	8.03	3.808

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 <daNm>	M'ydz <daNm>	α <grad>	ε _y	Sic.
3.63	13	SND	2	18	0.00	-27293.90	3478.03	3478.03	-4137.58	-4137.58	-27293.90	4177.76	-5087.77	303.75	2.93	1.218
3.63	13	SND	2	18	0.00	-27293.90	3478.03	3478.03	-4137.58	-4137.58	-27293.90	4177.76	-5087.77	303.75	2.93	1.218
6.53	5	SND	2	18	289.50	-23618.90	-2401.49	-2401.49	4575.17	4575.17	-23618.90	-3227.24	6045.11	115.31	3.17	1.326
6.81	13	SND	3	18	0.00	-3626.51	2933.23	2933.23	-3438.30	-3438.30	-3626.51	4304.09	-5151.01	303.75	3.90	1.485
6.81	13	SND	3	18	0.00	-3626.51	2933.23	2933.23	-3438.30	-3438.30	-3626.51	4304.09	-5151.01	303.75	3.90	1.485
9.71	13	SND	3	18	290.00	-3082.76	-3471.27	-3471.27	3080.46	3080.46	-3082.76	-5015.18	4442.60	130.78	3.87	1.444
9.99	13	SND	4	18	0.00	4112.74	-1377.67	-1377.67	-2587.44	-2587.44	4112.74	-3012.78	-5445.09	244.69	4.44	2.123
11.41	13	SND	4	18	142.46	4379.85	-133.41	-133.41	1975.68	1975.68	4379.85	-441.42	7434.23	91.41	8.45	3.761

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
---	1	3.63	50.37	35.52
---	1	3.63	50.37	35.52
---	1	3.63	50.37	35.52

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	M'ydy,s <daNm>	MRdy,s <daNm>	M'ydz,s <daNm>	MRdz,s <daNm>	α <grad>	ε _y	Sic.	
0.00	17	(e)	SLU	1	18	0.00	-70301.50	352.06	1406.03	-657.13	-1406.03	-236495.00	5577.51	-5492.60	5577.51	5577.51	-5492.60	-5492.60	307.97	1.75	3.364
0.00	17	(e)	SLU	1	18	0.00	-70301.50	352.06	1406.03	-657.13	-1406.03	-236495.00	5577.51	-5492.60	5577.51	5577.51	-5492.60	-5492.60	307.97	1.75	3.364
3.35	17	(e)	SLU	1	18	335.50	-69483.70	-550.73	-1389.67	1473.14	1473.14	-236495.00	-5398.84	5668.80	-5398.84	-5398.84	5668.80	5668.80	126.56	1.77	3.404

Stato limite elastico - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,s <daNm>	M'ydz,s <daNm>	M'ydy,s <daNm>	MRdy,s <daNm>	M'ydz,s <daNm>	MRdz,s <daNm>	α <grad>	ε _y	Sic.	
0.00	13	SND	1	18	0.00	-51788.10	2523.48	2523.48	-1736.18	-1736.18	-51788.10	5554.63	-3815.19	5554.63	5554.63	-3815.19	-3815.19	-3815.19	316.41	2.23	2.200
0.00	13	SND	1	18	0.00	-51788.10	2523.48	2523.48	-1736.18	-1736.18	-51788.10	5554.63	-3815.19	5554.63	5554.63	-3815.19	-3815.19	-3815.19	316.41	2.23	2.200
3.35	5	SND	1	18	335.50	-49974.10	-1322.23	-1322.23	2431.64	2431.64	-49974.10	-3130.96	5761.12	-3130.96	-3130.96	5761.12	5761.12	5761.12	115.31	2.28	2.369

Relazione di calcolo

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ _e <daN/cmq>	σ _f <daN/cmq>
0.00	18	SLE R	1	18	0.00	-50462.00	-461.21	238.71	0.00	24.38	58.68	809.83
0.00	20	SLE Q	1	18	0.00	-45208.50	-373.40	238.50	0.00	24.38	52.21	722.43
0.00	18	SLE R	1	18	0.00	-50462.00	-461.21	238.71	0.00	24.38	58.68	809.83
0.00	20	SLE Q	1	18	0.00	-45208.50	-373.40	238.50	0.00	24.38	52.21	722.43
3.35	18	SLE R	1	18	335.50	-49833.00	1040.06	-365.81	0.00	24.38	71.98	934.84
3.35	20	SLE Q	1	18	335.50	-44579.50	869.65	-367.07	0.00	24.38	63.87	831.96
3.63	18	SLE R	2	18	0.00	-28457.50	-1952.83	574.67	7.67	16.71	78.61	888.07
3.63	20	SLE Q	2	18	0.00	-25727.80	-1648.67	579.55	7.67	16.71	69.25	788.46
3.63	18	SLE R	2	18	0.00	-28457.50	-1952.83	574.67	7.67	16.71	78.61	888.07
3.63	20	SLE Q	2	18	0.00	-25727.80	-1648.67	579.55	7.67	16.71	69.25	788.46
6.53	18	SLE R	2	18	289.50	-27914.70	1912.37	-564.55	7.67	16.71	77.04	870.56
6.53	20	SLE Q	2	18	289.50	-25185.00	1616.27	-567.31	7.67	16.71	67.86	772.38
6.81	18	SLE R	3	18	0.00	-8435.47	-1666.69	400.39	12.19	12.19	58.98	603.59
6.81	20	SLE Q	3	18	0.00	-8020.05	-1424.11	406.01	12.19	12.19	52.34	506.14
6.81	18	SLE R	3	18	0.00	-8435.47	-1666.69	400.39	12.19	12.19	58.98	603.59
6.81	20	SLE Q	3	18	0.00	-8020.05	-1424.11	406.01	12.19	12.19	52.34	506.14
9.71	18	SLE R	3	18	290.00	-7891.72	1314.79	-226.63	12.19	12.19	44.68	434.44
9.71	20	SLE Q	3	18	290.00	-7476.30	1137.22	-234.89	12.19	12.19	39.88	393.82
9.99	18	SLE R	4	18	0.00	-1435.50	-1930.60	118.64	12.19	12.19	54.81	917.52
9.99	20	SLE Q	4	18	0.00	-1275.83	-1669.42	107.20	12.19	12.19	47.55	793.45
11.41	18	SLE R	4	18	142.46	-1168.39	1580.07	-46.45	12.19	12.19	43.37	735.44
11.41	20	SLE Q	4	18	142.46	-1008.72	1347.94	-25.21	12.19	12.19	36.58	626.01

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>
9.99	20	SLE Q	4	18	0.00	-1275.83	107.20	-1669.42	34.00	104.02	0.50	22.82	110.04	7.67	141.19	793.45	0.24	0.04
9.99	19	SLE F	4	18	0.00	-1249.08	108.70	-1726.86	34.00	104.02	0.50	22.82	110.19	7.67	141.69	822.89	0.24	0.04
11.41	20	SLE Q	4	18	142.46	-1008.72	-25.21	1347.94	34.00	104.02	0.50	22.82	96.25	12.19	150.88	626.01	0.19	0.03
11.41	19	SLE F	4	18	142.46	-981.97	-27.70	1399.27	34.00	104.02	0.50	22.82	96.26	12.19	150.91	652.45	0.19	0.03

Stato limite ultimo - Verifiche a taglio

X0	X1	Staff.	Br _y	Br _z	CC	TCC	bw _y	d _y	Vsdu _y	ctgθ _y	VRsd _y	VRcd _y	Vrd _y	bw _z	d _z	Vsdu _z	ctgθ _z	VRsd _z	VRcd _z	Vrd _z	Sic.
<m>	<m>						<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	<cm>	<cm>	<daN>		<daN>	<daN>	<daN>	
0.00	0.56	ø8/18	2	21	SLU	0.30	0.21	634.95	2.50	10129.60	22551.70	10129.60	0.25	0.26	269.09	2.50	12588.20	23354.50	12588.20	15.953	
0.00	0.56	ø8/18	2	29	SND	0.30	0.21	1129.71	2.50	10129.60	22551.70	10129.60	0.25	0.26	1259.19	2.50	12588.20	23354.50	12588.20	8.967	
0.00	0.56	ø8/18	2	25	SND	0.30	0.21	1354.08	2.50	10129.60	22551.70	10129.60	0.25	0.26	959.66	2.50	12588.20	23354.50	12588.20	7.481	
0.56	2.80	ø8/18	2	21	SLU	0.30	0.21	634.95	2.50	10129.60	22551.70	10129.60	0.25	0.26	269.09	2.50	12588.20	23354.50	12588.20	15.953	
0.56	2.80	ø8/18	2	29	SND	0.30	0.21	1129.71	2.50	10129.60	22551.70	10129.60	0.25	0.26	1259.19	2.50	12588.20	23354.50	12588.20	8.967	
0.56	2.80	ø8/18	2	25	SND	0.30	0.21	1354.08	2.50	10129.60	22551.70	10129.60	0.25	0.26	959.66	2.50	12588.20	23354.50	12588.20	7.481	
2.80	3.35	ø8/18	2	21	SLU	0.30	0.21	634.95	2.50	10129.60	22551.70	10129.60	0.25	0.26	269.09	2.50	12588.20	23354.50	12588.20	15.953	
2.80	3.35	ø8/18	2	29	SND	0.30	0.21	1129.71	2.50	10129.60	22551.70	10129.60	0.25	0.26	1259.19	2.50	12588.20	23354.50	12588.20	8.967	
2.80	3.35	ø8/18	2	25	SND	0.30	0.21	1354.08	2.50	10129.60	22551.70	10129.60	0.25	0.26	959.66	2.50	12588.20	23354.50	12588.20	7.481	
3.63	4.13	ø8/18	2	21	SLU	0.30	0.21	1887.55	2.50	10129.60	22551.70	10129.60	0.25	0.26	595.84	2.50	12588.20	23354.50	12588.20	5.367	
3.63	4.13	ø8/18	2	29	SND	0.30	0.21	2767.63	2.50	10129.60	21523.10	10129.60	0.25	0.26	2271.26	2.50	12588.20	22289.30	12588.20	3.660	
3.63	4.13	ø8/18	2	25	SND	0.30	0.21	3235.65	2.50	10129.60	21515.10	10129.60	0.25	0.26	1769.10	2.50	12588.20	22281.00	12588.20	3.131	
4.13	6.03	ø8/18	2	21	SLU	0.30	0.21	1887.55	2.50	10129.60	22551.70	10129.60	0.25	0.26	595.84	2.50	12588.20	23354.50	12588.20	5.367	
4.13	6.03	ø8/18	2	29	SND	0.30	0.21	2767.63	2.50	10129.60	21511.10	10129.60	0.25	0.26	2271.26	2.50	12588.20	22276.90	12588.20	3.660	
4.13	6.03	ø8/18	2	25	SND	0.30	0.21	3235.65	2.50	10129.60	21503.10	10129.60	0.25	0.26	1769.10	2.50	12588.20	22268.60	12588.20	3.131	
6.03	6.53	ø8/18	2	21	SLU	0.30	0.21	1887.55	2.50	10129.60	22551.70	10129.60	0.25	0.26	595.84	2.50	12588.20	23354.50	12588.20	5.367	
6.03	6.53	ø8/18	2	29	SND	0.30	0.21	2767.63	2.50	10129.60	21465.70	10129.60	0.25	0.26	2271.26	2.50	12588.20	22229.80	12588.20	3.660	
6.03	6.53	ø8/18	2	25	SND	0.30	0.21	3235.65	2.50	10129.60	21457.70	10129.60	0.25	0.26	1769.10	2.50	12588.20	22221.60	12588.20	3.131	
6.81	7.31	ø8/18	2	21	SLU	0.30	0.21	1424.77	2.50	10129.60	19403.60	10129.60	0.25	0.26	327.69	2.50	12588.20	20094.30	12588.20	7.110	
6.81	7.31	ø8/18	2	29	SND	0.30	0.21	2219.80	2.50	10129.60	19489.60	10129.60	0.25	0.26	2220.08	2.50	12588.20	20183.40	12588.20	4.563	
6.81	7.31	ø8/18	2	25	SND	0.30	0.21	2572.65	2.50	10129.60	19628.60	10129.60	0.25	0.26	1766.30	2.50	12588.20	20327.30	12588.20	3.937	
7.31	9.21	ø8/18	2	21	SLU	0.30	0.21	1424.77	2.50	10129.60	19388.00	10129.60	0.25	0.26	327.69	2.50	12588.20	20078.20	12588.20	7.110	
7.31	9.21	ø8/18	2	29	SND	0.30	0.21	2219.80	2.50	10129.60	19477.70	10129.60	0.25	0.26	2220.08	2.50	12588.20	20171.00	12588.20	4.563	
7.31	9.21	ø8/18	2	25	SND	0.30	0.21	2572.65	2.50	10129.60	19616.60	10129.60	0.25	0.26	1766.30	2.50	12588.20	20314.90	12588.20	3.937	
9.21	9.71	ø8/18	2	21	SLU	0.30	0.21	1424.77	2.50	10129.60	19328.80	10129.60	0.25	0.26	327.69	2.50	12588.20	20016.90	12588.20	7.110	
9.21	9.71	ø8/18	2	29	SND	0.30	0.21	2219.80	2.50	10129.60	19432.10	10129.60	0.25	0.26	2220.08	2.50	12588.20	20123.90	12588.20	4.563	
9.21	9.71	ø8/18	2	25	SND	0.30	0.21	2572.65	2.50	10129.60	19571.00	10129.60	0.25	0.26	1766.30	2.50	12588.20	20267.70	12588.20	3.937	
9.99	11.41	ø8/18	2	21	SLU	0.30	0.21	3339.51	2.50	10129.60	18230.50	10129.60	0.25	0.26	173.90	2.50	12588.20	18879.50	12588.20	3.033	
9.99	11.41	ø8/18	2	21	SND	0.30	0.21	3009.73	2.50	10129.60	18891.40	10129.60	0.25	0.26	1230.58	2.50	12588.20	19563.90	12588.20	3.366	
9.99	11.41	ø8/18	2	21	SND	0.30	0.21	3202.92	2.50	10129.60	18719.90	10129.60	0.25	0.26	1034.77	2.50	12588.20	19386.30	12588.20	3.163	
10.44	10.96	ø8/18	2	21	SLU	0.30	0.21	3339.46	2.50	10129.60	18216.50	10129.60	0.25	0.26	173.90	2.50	12588.20	18864.90	12588.20	3.033	
10.44	10.96	ø8/18	2	21	SND	0.30	0.21	3009.68	2.50	10129.60	18880.60	10129.60	0.25	0.26	1230.57	2.50	12588.20	19552.70	12588.20	3.366	
10.44	10.96	ø8/18	2	21	SND	0.30	0.21	3202.87	2.50	10129.60	18709.10	10129.60	0.25	0.26	1034.75	2.50	12588.20	19375.10	12588.20	3.163	
10.96	11.41	ø8/18	2	21	SLU	0.30	0.21	3339.40	2.50	10129.60	18200.10	10129.60	0.25	0.26	173.90	2.50	12588.20	18848.00	12588.20	3.033	
10.96	11.41	ø8/18	2	21	SND	0.30	0.21	3009.63	2.50	10129.60	18868.00	10129.60	0.25	0.26	1230.54	2.50	12588.20	19539.70	12588.20	3.366	
10.96	11.41	ø8/18	2	21	SND	0.30	0.21	3202.81	2.50	10129.60	18696.50	10129.60	0.25	0.26	1034.74	2.50	12588.20	19362.10	12588.20	3.163	

Pilastrata n. 6

Nodi: 6 1006

Relazione di calcolo

6.81	17	SLU	3	1	0.00	-27284.40	-2066.44	-2066.44	-3898.09	-3898.09	-27284.40	-5663.58	-10717.70	261.56	4.99	2.748
9.71	17	SLU	3	1	290.00	-26106.20	2043.97	2043.97	3550.56	3550.56	-26106.20	6289.13	10542.80	80.16	4.79	2.996
9.99	17	SLU	4	1	0.00	-4385.07	-1457.93	-1457.93	-2433.42	-2433.42	-4385.07	-5366.35	-9019.08	262.97	6.81	3.700
9.99	17	SLU	4	1	0.00	-4385.07	-1457.93	-1457.93	-2433.42	-2433.42	-4385.07	-3871.88	-6400.56	265.43	9.01	2.637
13.17	17	SLU	4	1	317.58	-3094.90	671.23	671.23	1718.20	1718.20	-3094.90	2558.35	6333.87	87.19	10.10	3.703

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 <daNm>	M'ydz <daNm>	α <grad>	ε _r	Sic.
3.63	13	SND	2	1	0.00	-28456.60	-6343.85	-6343.85	-8544.84	-8544.84	-28456.60	-6407.91	-8556.82	256.64	4.22	1.004
3.63	13	SND	2	1	0.00	-28456.60	-6343.85	-6343.85	-8544.84	-8544.84	-28456.60	-6407.91	-8556.82	256.64	4.22	1.004
6.53	13	SND	2	1	289.50	-27551.90	5012.78	5012.78	7965.42	7965.42	-27551.90	5599.70	8683.90	78.75	4.48	1.098
6.81	13	SND	3	1	0.00	-14534.90	-4480.88	-4480.88	-7144.50	-7144.50	-14534.90	-4749.61	-7806.80	261.56	5.77	1.084
6.81	13	SND	3	1	0.00	-14534.90	-4480.88	-4480.88	-7144.50	-7144.50	-14534.90	-4749.61	-7806.80	261.56	5.77	1.084
9.71	13	SND	3	1	290.00	-13628.70	6274.88	6274.88	7047.89	7047.89	-13628.70	6379.23	7240.22	75.94	4.86	1.023
9.99	13	SND	4	1	0.00	2518.11	-4159.00	-4159.00	-2657.85	-2657.85	2518.11	-7635.76	-4876.10	247.50	5.19	1.836
9.99	13	SND	4	1	0.00	2518.11	-4159.00	-4159.00	-2657.85	-2657.85	2518.11	-5271.35	-3499.14	255.94	6.94	1.282
13.17	13	SND	4	1	317.58	3510.55	2635.67	2635.67	2219.24	2219.24	3510.55	4437.02	3610.57	80.16	7.82	1.660

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
---	1	3.63	50.37	39.25
---	1	3.63	50.37	39.25
---	1	3.63	50.37	39.25

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	M'ydy,s <daNm>	MRdy,s <daNm>	M'ydz,s <daNm>	MRdz,s <daNm>	α <grad>	ε _r	Sic.	
0.00	17	(e)	SLU	1	1	0.00	-96086.10	-452.40	-1921.72	-898.54	-1921.72	-333512.00	-9171.51	-9217.33	-9171.51	-9171.51	-9217.33	-9217.33	253.12	2.22	3.471
0.00	17	(e)	SLU	1	1	0.00	-96086.10	-452.40	-1921.72	-898.54	-1921.72	-333512.00	-9171.51	-9217.33	-9171.51	-9171.51	-9217.33	-9217.33	253.12	2.22	3.471
3.35	17	(e)	SLU	1	1	335.50	-94723.20	1400.83	1894.46	2281.85	2281.85	-333512.00	8089.25	9594.45	8089.25	8089.25	9594.45	9594.45	75.23	2.25	3.521

Stato limite elastico - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,s <daNm>	M'ydz,s <daNm>	M'ydy,s <daNm>	MRdy,s <daNm>	M'ydz,s <daNm>	MRdz,s <daNm>	α <grad>	ε _r	Sic.
0.00	13	SND	1	1	0.00	-42095.20	7870.83	7870.83	-4186.72	-4186.72	-42095.20	11380.90	-6207.38	11380.90	11380.90	-6207.38	-6207.38	296.72	3.50	1.454
0.00	13	SND	1	1	0.00	-42095.20	7870.83	7870.83	-4186.72	-4186.72	-42095.20	11380.90	-6207.38	11380.90	11380.90	-6207.38	-6207.38	296.72	3.50	1.454
3.35	13	SND	1	1	335.50	-78504.90	2211.10	2211.10	4301.10	4301.10	-78504.90	4930.62	9254.58	4930.62	4930.62	9254.58	9254.58	79.45	2.65	2.168

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	18	SLE R	1	1	0.00	-68703.70	-627.44	-272.60	0.00	25.13	52.91	742.38
0.00	20	SLE Q	1	1	0.00	-62158.60	-496.47	-249.38	0.00	25.13	46.90	662.27
0.00	18	SLE R	1	1	0.00	-68703.70	-627.44	-272.60	0.00	25.13	52.91	742.38
0.00	20	SLE Q	1	1	0.00	-62158.60	-496.47	-249.38	0.00	25.13	46.90	662.27
3.35	18	SLE R	1	1	335.50	-67655.30	1611.01	924.88	0.00	25.13	70.62	923.45
3.35	20	SLE Q	1	1	335.50	-61110.10	1352.97	906.70	0.00	25.13	62.88	826.60
3.63	18	SLE R	2	1	0.00	-43262.20	-3027.85	-1702.07	9.42	15.71	86.95	1011.32
3.63	20	SLE Q	2	1	0.00	-39438.50	-2578.34	-1665.16	6.28	18.85	76.64	901.04
3.63	18	SLE R	2	1	0.00	-43262.20	-3027.85	-1702.07	9.42	15.71	86.95	1011.32
3.63	20	SLE Q	2	1	0.00	-39438.50	-2578.34	-1665.16	6.28	18.85	76.64	901.04
6.53	18	SLE R	2	1	289.50	-42357.50	2872.31	1442.62	9.42	15.71	81.18	948.55
6.53	20	SLE Q	2	1	289.50	-38533.80	2445.46	1405.44	6.28	18.85	71.39	842.79
6.81	18	SLE R	3	1	0.00	-20006.40	-2770.19	-1378.09	12.57	12.57	76.18	786.53
6.81	20	SLE Q	3	1	0.00	-18697.30	-2382.88	-1360.87	12.57	12.57	67.51	709.68
6.81	18	SLE R	3	1	0.00	-20006.40	-2770.19	-1378.09	12.57	12.57	76.18	786.53
6.81	20	SLE Q	3	1	0.00	-18697.30	-2382.88	-1360.87	12.57	12.57	67.51	709.68
9.71	18	SLE R	3	1	290.00	-19100.10	2535.36	1352.18	12.57	12.57	70.76	737.30
9.71	20	SLE Q	3	1	290.00	-17791.00	2201.31	1360.49	12.57	12.57	63.51	672.45
9.99	18	SLE R	4	1	0.00	-3572.60	-1757.21	-1010.46	12.57	12.57	49.55	845.57
9.99	20	SLE Q	4	1	0.00	-3354.37	-1526.89	-989.51	12.57	12.57	44.52	745.67
9.99	18	SLE R	4	1	0.00	-3572.60	-1757.21	-1010.46	8.29	8.29	58.62	1173.63
9.99	20	SLE Q	4	1	0.00	-3354.37	-1526.89	-989.51	8.29	8.29	52.52	1028.13
13.17	18	SLE R	4	1	317.58	-2580.16	1246.65	524.03	8.29	8.29	38.81	790.05
13.17	20	SLE Q	4	1	317.58	-2361.94	1070.21	445.30	8.29	8.29	33.25	668.49

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/cm ² >	ε _{sm}	W _k <mm>
6.81	20	SLE Q	3	1	0.00	-18697.30	-1360.87	-2382.88	34.00	137.34	0.50	20.00	125.16	3.14	89.78	631.76	0.18	0.04
6.81	19	SLE F	3	1	0.00	-18899.40	-1366.00	-2485.08	34.00	137.34	0.50	20.00	127.78	3.14	93.91	669.92	0.20	0.04
6.81	20	SLE Q	3	1	0.00	-18697.30	-1360.87	-2382.88	34.00	137.34	0.50	20.00	125.16	3.14	89.78	631.76	0.18	0.04
6.81	19	SLE F	3	1	0.00	-18899.40	-1366.00	-2485.08	34.00	137.34	0.50	20.00	127.78	3.14	93.91	669.92	0.20	0.04
9.71	20	SLE Q	3	1	290.00	-17791.00	1360.49	2201.31	34.00	137.33	0.50	20.00	121.77	3.14	84.46	583.51	0.17	0.04
9.71	19	SLE F	3	1	290.00	-17993.20	1359.99	2280.38	34.00	137.33	0.50	20.00	123.76	3.14	87.59	610.65	0.18	0.04
9.99	20	SLE Q	4	1	0.00	-3354.37	-989.51	-1526.89	34.00	137.34	0.50	20.00	155.35	3.14	137.21	745.67	0.22	0.06
9.99	19	SLE F	4	1	0.00	-3364.01	-991.50	-1575.02	34.00	137.34	0.50	20.00	157.20	3.14	140.12	767.53	0.22	0.06
9.99	20	SLE Q	4	1	0.00	-3354.37	-989.51	-1526.89	34.00	206.01	0.50	18.86	170.08	3.14	170.07	1028.13	0.30	0.09
9.99	19	SLE F	4	1	0.00	-3364.01	-991.50	-1575.02	34.00	206.01	0.50	18.86	172.33	3.14	173.81	1060.20	0.31	0.09
13.17	20	SLE Q	4	1	317.58	-2361.94	445.30	1070.21	34.00	206.01	0.50	18.86	192.77	3.14	207.87	668.49	0.19	0.06

Relazione di calcolo

13.17	19	SLE F	4	1	317.58	-2371.57	456.44	1108.53	34.00	206.01	0.50	18.86	193.65	3.14	209.33	695.94	0.20	0.07
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Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.56	ø8/24	2	2	17	SLU	0.50	0.21	947.95	2.50	7597.19	37586.10	7597.19	0.25	0.46	552.38	2.50	16817.10	41600.20	16817.10	8.014
0.00	0.56	ø8/24	2	2	1	SND	0.50	0.21	1859.35	2.50	7597.19	37586.10	7597.19	0.25	0.46	3319.35	2.50	16817.10	41600.20	16817.10	4.086
0.00	0.56	ø8/24	2	2	13	SND	0.50	0.21	2529.79	2.50	7597.19	37586.10	7597.19	0.25	0.46	2623.84	2.50	16817.10	41600.20	16817.10	3.003
0.56	2.80	ø8/24	2	2	17	SLU	0.50	0.21	947.95	2.50	7597.19	37586.10	7597.19	0.25	0.46	552.38	2.50	16817.10	41600.20	16817.10	8.014
0.56	2.80	ø8/24	2	2	1	SND	0.50	0.21	1859.35	2.50	7597.19	37586.10	7597.19	0.25	0.46	3319.35	2.50	16817.10	41600.20	16817.10	4.086
0.56	2.80	ø8/24	2	2	13	SND	0.50	0.21	2529.79	2.50	7597.19	37586.10	7597.19	0.25	0.46	2623.84	2.50	16817.10	41600.20	16817.10	3.003
2.80	3.35	ø8/24	2	2	17	SLU	0.50	0.21	947.95	2.50	7597.19	37586.10	7597.19	0.25	0.46	552.38	2.50	16817.10	41600.20	16817.10	8.014
2.80	3.35	ø8/24	2	2	1	SND	0.50	0.21	1859.35	2.50	7597.19	37586.10	7597.19	0.25	0.46	3319.35	2.50	16817.10	41600.20	16817.10	4.086
2.80	3.35	ø8/24	2	2	13	SND	0.50	0.21	2529.79	2.50	7597.19	37586.10	7597.19	0.25	0.46	2623.84	2.50	16817.10	41600.20	16817.10	3.003
3.63	4.13	ø8/24	2	2	17	SLU	0.50	0.21	2881.12	2.50	7597.19	37586.10	7597.19	0.25	0.46	1615.97	2.50	16817.10	41600.20	16817.10	2.637
3.63	4.13	ø8/24	2	2	1	SND	0.50	0.21	4400.41	2.50	7597.19	36422.30	7597.19	0.25	0.46	4955.97	2.50	16817.10	40312.10	16817.10	1.726
3.63	4.13	ø8/24	2	2	13	SND	0.50	0.21	5702.97	2.50	7597.19	36511.90	7597.19	0.25	0.46	3916.56	2.50	16817.10	40411.20	16817.10	1.332
4.13	6.03	ø8/24	2	2	17	SLU	0.50	0.21	2881.12	2.50	7597.19	37586.10	7597.19	0.25	0.46	1615.97	2.50	16817.10	41600.20	16817.10	2.637
4.13	6.03	ø8/24	2	2	1	SND	0.50	0.21	4400.40	2.50	7597.19	36402.30	7597.19	0.25	0.46	4955.97	2.50	16817.10	40290.00	16817.10	1.726
4.13	6.03	ø8/24	2	2	13	SND	0.50	0.21	5702.97	2.50	7597.19	36491.90	7597.19	0.25	0.46	3916.56	2.50	16817.10	40389.10	16817.10	1.332
6.03	6.53	ø8/24	2	2	17	SLU	0.50	0.21	2881.12	2.50	7597.19	37586.10	7597.19	0.25	0.46	1615.97	2.50	16817.10	41600.20	16817.10	2.637
6.03	6.53	ø8/24	2	2	1	SND	0.50	0.21	4400.40	2.50	7597.19	36326.60	7597.19	0.25	0.46	4955.97	2.50	16817.10	40206.20	16817.10	1.726
6.03	6.53	ø8/24	2	2	13	SND	0.50	0.21	5702.97	2.50	7597.19	36416.20	7597.19	0.25	0.46	3916.56	2.50	16817.10	40305.30	16817.10	1.332
6.81	7.31	ø8/24	2	2	17	SLU	0.50	0.21	2568.50	2.50	7597.19	33557.50	7597.19	0.25	0.46	1417.38	2.50	16817.10	37141.30	16817.10	2.958
6.81	7.31	ø8/24	2	2	1	SND	0.50	0.21	3890.46	2.50	7597.19	32991.10	7597.19	0.25	0.46	4604.08	2.50	16817.10	36514.40	16817.10	1.953
6.81	7.31	ø8/24	2	2	13	SND	0.50	0.21	4893.86	2.50	7597.19	33358.60	7597.19	0.25	0.46	3697.78	2.50	16817.10	36921.10	16817.10	1.552
7.31	9.21	ø8/24	2	2	17	SLU	0.50	0.21	2568.50	2.50	7597.19	33531.60	7597.19	0.25	0.46	1417.38	2.50	16817.10	37112.60	16817.10	2.958
7.31	9.21	ø8/24	2	2	1	SND	0.50	0.21	3890.46	2.50	7597.19	32971.10	7597.19	0.25	0.46	4604.08	2.50	16817.10	36492.30	16817.10	1.953
7.31	9.21	ø8/24	2	2	13	SND	0.50	0.21	4893.86	2.50	7597.19	33338.60	7597.19	0.25	0.46	3697.78	2.50	16817.10	36899.00	16817.10	1.552
9.21	9.71	ø8/24	2	2	17	SLU	0.50	0.21	2568.50	2.50	7597.19	33432.90	7597.19	0.25	0.46	1417.38	2.50	16817.10	37003.40	16817.10	2.958
9.21	9.71	ø8/24	2	2	1	SND	0.50	0.21	3890.46	2.50	7597.19	32895.20	7597.19	0.25	0.46	4604.08	2.50	16817.10	36408.30	16817.10	1.953
9.21	9.71	ø8/24	2	2	13	SND	0.50	0.21	4893.86	2.50	7597.19	33262.70	7597.19	0.25	0.46	3697.78	2.50	16817.10	36815.00	16817.10	1.552
9.99	10.52	ø8/18	2	2	17	SLU	0.50	0.21	1307.26	2.50	10129.60	30629.60	10129.60	0.25	0.46	670.43	2.50	22422.80	33900.70	22422.80	7.749
9.99	10.52	ø8/18	2	2	13	SND	0.50	0.21	1534.74	2.50	10129.60	31810.90	10129.60	0.25	0.46	2004.71	2.50	22422.80	35208.20	22422.80	6.600
10.52	12.64	ø8/18	2	2	17	SLU	0.50	0.21	1307.26	2.50	10129.60	30602.10	10129.60	0.25	0.46	670.43	2.50	22422.80	33870.30	22422.80	7.749
10.52	12.64	ø8/18	2	2	13	SND	0.50	0.21	1534.73	2.50	10129.60	31789.80	10129.60	0.25	0.46	2004.70	2.50	22422.80	35184.80	22422.80	6.600
12.64	13.17	ø8/18	2	2	17	SLU	0.50	0.21	1307.24	2.50	10129.60	30492.10	10129.60	0.25	0.46	670.42	2.50	22422.80	33748.50	22422.80	7.749
12.64	13.17	ø8/18	2	2	13	SND	0.50	0.21	1534.71	2.50	10129.60	31705.20	10129.60	0.25	0.46	2004.67	2.50	22422.80	35091.20	22422.80	6.600

Pilastrata n. 7

Nodi: 7 1007 2007 3007 4007

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>
1R		25.00	50.00	4.30	C32/40	332.00	21.69	188.13	14.46	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 <daNm>	MRdz <daNm>	α <grad>	ε _r	Sic.
3.63	17 (e)	SLU	2	1	0.00	-68727.90	484.41	1374.56	3452.66	3452.66	-68727.90	4205.09	10624.60	82.27	3.13	3.075
3.63	17 (e)	SLU	2	1	0.00	-68727.90	484.41	1374.56	3452.66	3452.66	-68727.90	4205.09	10624.60	82.27	3.13	3.075
6.53	17 (e)	SLU	2	1	289.50	-67551.80	-443.71	-1351.04	-3116.23	-3116.23	-67551.80	-4709.81	-10453.50	261.56	3.16	3.376
6.81	17	SLU	3	1	0.00	-32638.50	665.27	665.27	2749.28	2749.28	-32638.50	2152.76	8724.49	87.19	6.67	3.177
6.81	17	SLU	3	1	0.00	-32638.50	665.27	665.27	2749.28	2749.28	-32638.50	2152.76	8724.49	87.19	6.67	3.177
9.71	17	SLU	3	1	290.00	-31460.40	-844.11	-844.11	-2396.05	-2396.05	-31460.40	-3112.54	-8592.85	265.78	6.33	3.598
9.99	17	SLU	4	1	0.00	-10209.10	-296.68	-296.68	1585.86	1585.86	-10209.10	-1419.43	6962.90	91.41	10.17	4.404
9.99	17	SLU	4	1	0.00	-10209.10	-296.68	-296.68	1585.86	1585.86	-10209.10	-1063.11	5542.34	91.05	12.26	3.498
13.17	17	SLU	4	1	317.58	-8918.92	1296.11	1296.11	-1160.75	-1160.75	-8918.92	5695.57	-5120.97	280.55	7.40	4.402

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 <daNm>	M'yzd <daNm>	α <grad>	ε _r	Sic.
3.63	5	SND	2	1	0.00	-46868.90	-5416.32	-5416.32	6925.94	6925.94	-46868.90	-6049.99	7514.66	102.66	3.82	1.097
3.63	5	SND	2	1	0.00	-46868.90	-5416.32	-5416.32	6925.94	6925.94	-46868.90	-6049.99	7514.66	102.66	3.82	1.097
6.53	5	SND	2	1	289.50	-40040.40	-4255.97	-4255.97	-6336.73	-6336.73	-40040.40	-5040.46	-7755.17	260.16	4.45	1.212
6.81	5	SND	3	1	0.00	-20415.90	4365.28	4365.28	5619.37	5619.37	-20415.90	4590.25	6070.77	81.56	6.11	1.070
6.81	5	SND	3	1	0.00	-20415.90	4365.28	4365.28	5619.37	5619.37	-20415.90	4590.25	6070.77	81.56	6.11	1.070
9.71	5	SND	3	1	290.00	-19509.70	-5780.21	-5780.21	-5747.74	-5747.74	-19509.70	-5879.59	-5688.03	257.34	5.37	1.004
9.99	13	SND	4	1	0.00	-5050.87	-1402.26	-1402.26	1890.57	1890.57	-5050.87	-3721.92	4857.43	96.33	8.12	2.599
9.99	13	SND	4	1	0.00	-5050.87	-1402.26	-1402.26	1890.57	1890.57	-5050.87	-2818.99	3728.95	95.62	9.70	1.986
13.17	5	SND	4	1	317.58	-3991.81	1910.87	1910.87	-1881.61	-1881.61	-3991.81	3454.62	-3296.40	278.44	8.62	1.780

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
---	1	3.63	50.37	37.49
---	1	3.63	50.37	37.49
---	1	3.63	50.37	37.49

Relazione di calcolo

0.00	5	SND	1	1	0.00	-71630.10	-5903.47	-5903.47	3978.57	3978.57	-71630.10	-9062.03	6148.36	-9062.03	-9062.03	6148.36	6148.36	110.39	2.77	1.538
3.35	5	SND	1	1	335.50	-60747.50	-2022.50	-2022.50	-3547.74	-3547.74	-60747.50	-4580.69	-8223.35	-4580.69	-4580.69	-8223.35	-8223.35	260.16	3.37	2.305

Stato limite d'esercizio - Verifiche tensionali

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σc <daN/cmq>	σf <daN/cmq>
0.00	18	SLE R	1	1	0.00	-75196.00	771.09	104.61	0.00	16.59	62.75	876.83
0.00	20	SLE Q	1	1	0.00	-67163.30	669.69	154.50	0.00	16.59	56.20	785.87
0.00	18	SLE R	1	1	0.00	-75196.00	771.09	104.61	0.00	16.59	62.75	876.83
0.00	20	SLE Q	1	1	0.00	-67163.30	669.69	154.50	0.00	16.59	56.20	785.87
3.35	18	SLE R	1	1	335.50	-74147.60	-1483.60	-281.35	0.00	16.59	74.26	988.43
3.35	20	SLE Q	1	1	335.50	-66114.90	-1288.57	-298.50	0.00	16.59	66.04	880.57
3.63	18	SLE R	2	1	0.00	-49410.10	2438.62	344.95	0.00	16.59	73.23	892.12
3.63	20	SLE Q	2	1	0.00	-44183.80	2113.12	356.56	0.00	16.59	64.70	791.28
3.63	18	SLE R	2	1	0.00	-49410.10	2438.62	344.95	0.00	16.59	73.23	892.12
3.63	20	SLE Q	2	1	0.00	-44183.80	2113.12	356.56	0.00	16.59	64.70	791.28
6.53	18	SLE R	2	1	289.50	-48505.40	-2198.71	-314.35	0.00	16.59	68.42	841.99
6.53	20	SLE Q	2	1	289.50	-43279.10	-1903.36	-330.51	0.00	16.59	60.49	746.82
6.81	18	SLE R	3	1	0.00	-23958.10	1951.11	479.69	8.29	8.29	55.01	612.40
6.81	20	SLE Q	3	1	0.00	-21517.90	1705.57	469.48	8.29	8.29	48.63	545.27
6.81	18	SLE R	3	1	0.00	-23958.10	1951.11	479.69	8.29	8.29	55.01	612.40
6.81	20	SLE Q	3	1	0.00	-21517.90	1705.57	469.48	8.29	8.29	48.63	545.27
9.71	18	SLE R	3	1	290.00	-23051.80	-1712.95	-616.11	8.29	8.29	50.42	574.33
9.71	20	SLE Q	3	1	290.00	-20611.60	-1515.13	-577.32	8.29	8.29	44.94	513.25
9.99	18	SLE R	4	1	0.00	-7640.59	1146.57	-217.24	8.29	8.29	31.91	386.89
9.99	20	SLE Q	4	1	0.00	-6789.06	1018.51	-188.22	8.29	8.29	28.29	342.81
9.99	18	SLE R	4	1	0.00	-7640.59	1146.57	-217.24	6.03	6.03	35.57	500.08
9.99	20	SLE Q	4	1	0.00	-6789.06	1018.51	-188.22	6.03	6.03	31.52	443.12
13.17	18	SLE R	4	1	317.58	-6648.15	-848.80	942.89	6.03	6.03	37.64	491.35
13.17	20	SLE Q	4	1	317.58	-5796.63	-741.62	741.23	6.03	6.03	31.62	407.27

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>
9.99	20	SLE Q	4	1	0.00	-6789.06	-188.22	1018.51	34.00	206.01	0.50	18.86	183.18	3.14	191.90	342.81	0.10	0.03
9.99	19	SLE F	4	1	0.00	-6958.70	-190.78	1042.40	34.00	206.01	0.50	18.86	183.30	3.14	192.08	350.03	0.10	0.03
9.99	20	SLE Q	4	1	0.00	-6789.06	-188.22	1018.51	34.00	208.00	0.50	16.00	229.46	2.01	202.90	443.12	0.13	0.05
9.99	19	SLE F	4	1	0.00	-6958.70	-190.78	1042.40	34.00	208.00	0.50	16.00	229.62	2.01	203.09	452.44	0.13	0.05
13.17	20	SLE Q	4	1	317.58	-5796.63	741.23	-741.62	34.00	208.00	0.50	16.00	141.12	2.01	91.89	407.27	0.12	0.03
13.17	19	SLE F	4	1	317.58	-5966.26	782.04	-762.86	34.00	208.00	0.50	16.00	140.58	2.01	91.21	424.02	0.12	0.03

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _y <cm>	d _y <cm>	Vsdu _y <daN>	ctgθ _y	VRsd _y <daN>	VRcd _y <daN>	Vrd _y <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.56	ø8/18	2	217	SLU	0.50	0.21	950.89	2.50	10129.60	37586.10	10129.60	0.25	0.46	159.33	2.50	22422.80	41600.20	22422.80	10.653	
0.00	0.56	ø8/18	2	29	SND	0.50	0.21	1686.80	2.50	10129.60	37586.10	10129.60	0.25	0.46	2575.17	2.50	22422.80	41600.20	22422.80	6.005	
0.00	0.56	ø8/18	2	25	SND	0.50	0.21	2243.23	2.50	10129.60	37586.10	10129.60	0.25	0.46	2270.94	2.50	22422.80	41600.20	22422.80	4.516	
0.56	2.80	ø8/18	2	217	SLU	0.50	0.21	950.89	2.50	10129.60	37586.10	10129.60	0.25	0.46	159.33	2.50	22422.80	41600.20	22422.80	10.653	
0.56	2.80	ø8/18	2	29	SND	0.50	0.21	1686.80	2.50	10129.60	37586.10	10129.60	0.25	0.46	2575.17	2.50	22422.80	41600.20	22422.80	6.005	
0.56	2.80	ø8/18	2	25	SND	0.50	0.21	2243.23	2.50	10129.60	37586.10	10129.60	0.25	0.46	2270.94	2.50	22422.80	41600.20	22422.80	4.516	
2.80	3.35	ø8/18	2	217	SLU	0.50	0.21	950.89	2.50	10129.60	37586.10	10129.60	0.25	0.46	159.33	2.50	22422.80	41600.20	22422.80	10.653	
2.80	3.35	ø8/18	2	29	SND	0.50	0.21	1686.80	2.50	10129.60	37586.10	10129.60	0.25	0.46	2575.17	2.50	22422.80	41600.20	22422.80	6.005	
2.80	3.35	ø8/18	2	25	SND	0.50	0.21	2243.23	2.50	10129.60	37586.10	10129.60	0.25	0.46	2270.94	2.50	22422.80	41600.20	22422.80	4.516	
3.63	4.13	ø8/18	2	217	SLU	0.50	0.21	2269.05	2.50	10129.60	37586.10	10129.60	0.25	0.46	320.59	2.50	22422.80	41600.20	22422.80	4.464	
3.63	4.13	ø8/18	2	29	SND	0.50	0.21	3552.47	2.50	10129.60	36107.30	10129.60	0.25	0.46	3855.82	2.50	22422.80	39963.40	22422.80	2.851	
3.63	4.13	ø8/18	2	25	SND	0.50	0.21	4581.07	2.50	10129.60	36061.70	10129.60	0.25	0.46	3334.89	2.50	22422.80	39912.90	22422.80	2.211	
4.13	6.03	ø8/18	2	217	SLU	0.50	0.21	2269.05	2.50	10129.60	37586.10	10129.60	0.25	0.46	320.59	2.50	22422.80	41600.20	22422.80	4.464	
4.13	6.03	ø8/18	2	29	SND	0.50	0.21	3552.47	2.50	10129.60	36087.30	10129.60	0.25	0.46	3855.82	2.50	22422.80	39941.30	22422.80	2.851	
4.13	6.03	ø8/18	2	25	SND	0.50	0.21	4581.07	2.50	10129.60	36041.70	10129.60	0.25	0.46	3334.89	2.50	22422.80	39890.80	22422.80	2.211	
6.03	6.53	ø8/18	2	217	SLU	0.50	0.21	2269.05	2.50	10129.60	37586.10	10129.60	0.25	0.46	320.59	2.50	22422.80	41600.20	22422.80	4.464	
6.03	6.53	ø8/18	2	29	SND	0.50	0.21	3552.47	2.50	10129.60	36011.60	10129.60	0.25	0.46	3855.82	2.50	22422.80	39857.50	22422.80	2.851	
6.03	6.53	ø8/18	2	25	SND	0.50	0.21	4581.07	2.50	10129.60	35966.00	10129.60	0.25	0.46	3334.89	2.50	22422.80	39807.00	22422.80	2.211	
6.81	7.31	ø8/18	2	217	SLU	0.50	0.21	1774.25	2.50	10129.60	34242.10	10129.60	0.25	0.46	520.48	2.50	22422.80	37899.10	22422.80	5.709	
6.81	7.31	ø8/18	2	29	SND	0.50	0.21	3084.91	2.50	10129.60	32960.30	10129.60	0.25	0.46	3972.59	2.50	22422.80	36480.40	22422.80	3.284	
6.81	7.31	ø8/18	2	25	SND	0.50	0.21	3919.44	2.50	10129.60	32941.60	10129.60	0.25	0.46	3494.80	2.50	22422.80	36459.70	22422.80	2.584	
7.31	9.21	ø8/18	2	217	SLU	0.50	0.21	1774.25	2.50	10129.60	34216.20	10129.60	0.25	0.46	520.48	2.50	22422.80	37870.30	22422.80	5.709	
7.31	9.21	ø8/18	2	29	SND	0.50	0.21	3084.91	2.50	10129.60	32940.40	10129.60	0.25	0.46	3972.59	2.50	22422.80	36458.30	22422.80	3.284	
7.31	9.21	ø8/18	2	25	SND	0.50	0.21	3919.44	2.50	10129.60	32921.60	10129.60	0.25	0.46	3494.80	2.50	22422.80	36437.60	22422.80	2.584	
9.21	9.71	ø8/18	2	217	SLU	0.50	0.21	1774.25	2.50	10129.60	34117.50	10129.60	0.25	0.46	520.48	2.50	22422.80	37761.10	22422.80	5.709	
9.21	9.71	ø8/18	2	29	SND	0.50	0.21	3084.91	2.50	10129.60	32864.40	10129.60	0.25	0.46	3972.59	2.50	22422.80	36374.20	22422.80	3.284	
9.21	9.71	ø8/18	2	25	SND	0.50	0.21	3919.44	2.50	10129.60	32845.70	10129.60	0.25	0.46	3494.80	2.50	22422.80	36353.50	22422.80	2.584	
9.99	10.52	ø8/18	2	217	SLU	0.50	0.21	864.86	2.50	10129.60	31374.30	10129.60	0.25	0.46	501.54	2.50	22422.80	34724.90	22422.80	11.713	
9.99	10.52	ø8/18	2	213	SND	0.50	0.21	1139.78	2.50	10129.60	31167.70	10129.60	0.25	0.46	1005.75	2.50	22422.80	34496.30	22422.80	8.887	
9.99	10.52	ø8/18	2	25	SND	0.50	0.21	1210.84	2.50	10129.60	31159.20	10129.60	0.25	0.46	934.06	2.50	22422.80	34486.90	22422.80	8.366	
10.52	12.64	ø8/18	2	217	SLU	0.50	0.21	864.85	2.50	10129.60	31346.80	10129.60	0.25	0.46	501.54	2.50	22422.80	34694.50	22422.80	11.713	
10.52	12.64	ø8/18	2	213	SND	0.50	0.21	1139.78	2.50	10129.60	31146.60	10129.60	0.25	0.46	1005.75	2.50	22422.80	34472.90	22422.80	8.887	
10.52	12.64	ø8/18	2	25	SND	0.50	0.21	1210.84	2.50	10129.60	31138.10	10129.60	0.25	0.46	934.05	2.50	22422.80	34463.50	22422.80	8.366	
12.64	13.17	ø8/18	2	217	SLU	0.50	0.21	864.84	2.50	10129.60	31236.80	10129.60	0.25	0.46	501.53	2.50	22422.80	34572.80	22422.80	11.713	
12.64	13.17	ø8/18	2	213	SND	0.50	0.21	1139.76	2.50	10129.60	31062.00	10129.60	0.25	0.46	1005.73	2.50	22422.80	34379.30	22422.80	8.887	
12.64	13.17	ø8/18	2	25	SND	0.50	0.21	1210.81	2.50	10129.60	31053.50	10129.60	0.25	0.46	934.04	2.50	22422.80	34369.90	22422.80	8.366	

Relazione di calcolo

2R	25.00	80.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
2R	25.00	80.00	4.10	C32/40	332.00	21.69	188.13	14.46	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 <daNm>	MRdz <daNm>	α <grad>	ε _y	Sic.
0.00	17(e)	SLU	1	2	0.00	-48173.80	1246.04	1246.04	-481.91	-963.48	-548371.00	21910.00	-16999.20	277.38	4.14	11.383
0.00	17(e)	SLU	1	2	0.00	-48173.80	1246.04	1246.04	-481.91	-963.48	-548371.00	21910.00	-16999.20	277.38	4.14	11.383
3.35	17(e)	SLU	1	2	335.50	-45993.00	-1420.63	-1420.63	87.41	919.86	-548371.00	-24550.60	16339.90	98.44	4.11	11.923
3.63	17(e)	SLU	2	2	0.00	-32649.60	1597.15	1597.15	233.03	652.99	-548371.00	33162.10	13618.30	77.34	4.26	16.796
3.63	17(e)	SLU	2	2	0.00	-32649.60	1597.15	1597.15	233.03	652.99	-548371.00	32859.20	13584.30	74.53	4.24	16.796
6.53	17(e)	SLU	2	2	289.50	-30767.90	-1427.29	-1427.29	-231.35	-615.36	-548371.00	-32743.80	-13534.10	254.53	4.28	17.823
6.81	17(e)	SLU	3	2	0.00	-17959.80	1576.20	1576.20	194.49	359.20	-17959.80	41794.20	9600.28	64.69	4.75	26.526
6.81	17(e)	SLU	3	2	0.00	-17959.80	1576.20	1576.20	194.49	-359.20	-17959.80	34409.70	-8134.79	292.50	5.27	21.872
9.71	17(e)	SLU	3	2	290.00	-16074.80	-1840.73	-1840.73	-142.24	-321.50	-16074.80	-36861.00	-6922.35	241.88	5.61	20.071
9.99	17(e)	SLU	4	2	0.00	-5480.91	1057.20	1057.20	99.46	-109.62	-5480.91	39294.00	-4194.06	315.00	7.22	37.180
9.99	17(e)	SLU	4	2	0.00	-5480.91	1057.20	1057.20	99.46	-109.62	-5480.91	35587.90	-3819.13	315.00	7.80	33.675
11.77	17(e)	SLU	4	2	177.97	-4324.07	1288.67	1288.67	42.63	-86.48	-4324.07	36721.40	-2612.34	326.25	9.02	28.504

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 <daNm>	M'ydz <daNm>	α <grad>	ε _y	Sic.
0.00	5	SND	1	2	0.00	19371.10	-25011.40	-25011.40	-3241.01	-3241.01	19371.10	-26705.20	-3867.83	236.25	6.61	1.070
0.00	5	SND	1	2	0.00	19371.10	-25011.40	-25011.40	-3241.01	-3241.01	19371.10	-26705.20	-3867.83	236.25	6.61	1.070
3.35	13	SND	1	2	335.50	15578.40	-8075.38	-8075.38	2437.00	2437.00	15578.40	-21847.30	6391.77	106.88	5.55	2.699
3.63	13	SND	2	2	0.00	12871.40	23255.10	23255.10	4986.47	4986.47	12871.40	24776.40	5411.71	67.50	5.66	1.066
3.63	13	SND	2	2	0.00	12871.40	23255.10	23255.10	4986.47	4986.47	12871.40	23572.30	5053.36	61.88	5.69	1.014
6.53	13	SND	2	2	289.50	14318.90	-19758.20	-19758.20	-4614.61	-4614.61	14318.90	-23289.20	-5012.37	241.88	5.74	1.174
6.81	13	SND	3	2	0.00	10613.20	14219.30	14219.30	3860.05	3860.05	10613.20	22334.90	6003.72	67.50	5.40	1.570
6.81	13	SND	3	2	0.00	10613.20	14219.30	14219.30	3860.05	3860.05	10613.20	17105.80	4678.04	70.31	6.31	1.204
9.71	13	SND	3	2	290.00	12063.20	-17681.80	-17681.80	-3467.58	-3467.58	12063.20	-18873.00	-3719.29	241.88	6.84	1.068
9.99	5	SND	4	2	0.00	9034.24	11708.50	11708.50	4758.64	4758.64	9034.24	14024.50	5859.29	78.75	6.40	1.203
9.99	13	SND	4	2	0.00	9120.46	11157.90	11157.90	-4676.09	-4676.09	9120.46	12044.90	-5081.81	279.84	6.98	1.081
11.77	5	SND	4	2	177.97	9924.11	14227.50	14227.50	3205.72	3205.72	9924.11	16273.70	3884.66	67.50	6.90	1.147

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	18	SLE R	1	2	0.00	-34808.50	-357.94	952.85	0.00	43.98	18.76	260.56
0.00	20	SLE Q	1	2	0.00	-32229.30	-343.46	1000.55	0.00	43.98	17.79	246.44
0.00	18	SLE R	1	2	0.00	-34808.50	-357.94	952.85	0.00	43.98	18.76	260.56
0.00	20	SLE Q	1	2	0.00	-32229.30	-343.46	1000.55	0.00	43.98	17.79	246.44
3.35	18	SLE R	1	2	335.50	-33131.00	72.58	-1054.31	0.00	43.98	15.87	230.12
3.35	20	SLE Q	1	2	335.50	-30551.80	77.86	-1022.54	0.00	43.98	14.87	214.91
3.63	18	SLE R	2	2	0.00	-23727.80	158.01	1172.66	0.00	43.98	13.40	188.59
3.63	20	SLE Q	2	2	0.00	-22049.60	136.12	1113.14	0.00	43.98	12.42	175.15
3.63	18	SLE R	2	2	0.00	-23727.80	158.01	1172.66	0.00	43.98	13.52	190.38
3.63	20	SLE Q	2	2	0.00	-22049.60	136.12	1113.14	0.00	43.98	12.54	176.90
6.53	18	SLE R	2	2	289.50	-22280.30	-156.64	-1053.01	0.00	43.98	12.63	177.66
6.53	20	SLE Q	2	2	289.50	-20602.10	-134.40	-1002.54	0.00	43.98	11.67	164.49
6.81	18	SLE R	3	2	0.00	-13267.40	131.86	1167.03	0.00	43.98	9.35	129.02
6.81	20	SLE Q	3	2	0.00	-12483.10	110.16	1132.13	0.00	43.98	8.78	121.51
6.81	18	SLE R	3	2	0.00	-13267.40	131.86	1167.03	0.00	32.17	9.95	137.75
6.81	20	SLE Q	3	2	0.00	-12483.10	110.16	1132.13	0.00	32.17	9.33	129.63
9.71	18	SLE R	3	2	290.00	-11817.40	-97.28	-1354.45	0.00	32.17	9.59	133.03
9.71	20	SLE Q	3	2	290.00	-11033.10	-78.57	-1305.54	0.00	32.17	8.95	124.64
9.99	18	SLE R	4	2	0.00	-4290.85	66.12	790.39	8.04	24.13	4.81	64.75
9.99	20	SLE Q	4	2	0.00	-4247.02	41.27	869.51	8.04	24.13	4.83	65.79
9.99	18	SLE R	4	2	0.00	-4290.85	66.12	790.39	8.04	20.11	4.92	66.19
9.99	20	SLE Q	4	2	0.00	-4247.02	41.27	869.51	8.04	20.11	4.94	67.22
11.77	18	SLE R	4	2	177.97	-3400.98	37.62	926.10	10.05	18.10	5.06	67.78
11.77	20	SLE Q	4	2	177.97	-3357.15	51.58	726.11	8.04	20.11	4.31	57.67

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>
9.99	20	SLE Q	4	2	0.00	-4247.02	869.51	41.27	34.00	83.00	0.50	16.00	113.06	2.01	56.63	17.52	0.01	0.00
9.99	19	SLE F	4	2	0.00	-4243.83	852.04	47.08	34.00	83.00	0.50	16.00	107.93	2.01	50.18	17.03	0.00	0.00
9.99	20	SLE Q	4	2	0.00	-4247.02	869.51	41.27	34.00	83.00	0.50	16.00	112.12	2.01	55.44	17.75	0.01	0.00
9.99	19	SLE F	4	2	0.00	-4243.83	852.04	47.08	34.00	83.00	0.50	16.00	107.14	2.01	49.18	17.26	0.01	0.00
11.77	20	SLE Q	4	2	177.97	-3357.15	726.11	51.58	34.00	83.00	0.50	16.00	115.07	2.01	59.15	19.91	0.01	0.00
11.77	19	SLE F	4	2	177.97	-3353.95	768.12	48.36	34.00	83.00	0.50	16.00	125.23	2.01	71.92	23.17	0.01	0.00

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _{ry} <m>	d _{ry} <cm>	Vsdu _{ry} <daN>	ctgθ _{ry}	VRsd _{ry} <daN>	VRcd _{ry} <daN>	Vrd _{ry} <daN>	bw _{rz} <m>	d _{rz} <cm>	Vsdu _{rz} <daN>	ctgθ _z	VRsd _{rz} <daN>	VRcd _{rz} <daN>	Vrd _{rz} <daN>	Sic.
0.00	0.80	ø8/24	2	21	SLU	0.80	0.21	169.69	2.50	7597.19	54269.80	7597.19	0.25	0.76	794.84	2.50	27881.00	62239.10	27881.00	35.078	
0.00	0.80	ø8/24	2	21	SND	0.80	0.21	1646.59	2.50	7597.19	58828.90	7597.19	0.25	0.76	10181.10	2.50	27881.00	67467.60	27881.00	2.739	
0.80	2.56	ø8/24	2	21	SLU	0.80	0.21	169.69	2.50	7597.19	54203.30	7597.19	0.25	0.76	794.84	2.50	27881.00	62162.80	27881.00	35.078	
0.80	2.56	ø8/24	2	21	SND	0.80	0.21	1646.59	2.50	7597.19	58777.70	7597.19	0.25	0.76	10181.10	2.50	27881.00	67408.90	27881.00	2.739	
2.56	3.35	ø8/24	2	21	SLU	0.80	0.21	169.69	2.50	7597.19	54057.50	7597.19	0.25	0.76	794.84	2.50	27881.00	61995.50	27881.00	35.078	
2.56	3.35	ø8/24	2	21	SND	0.80	0.21	1646.59	2.50	7597.19	58665.50	7597.19	0.25	0.76	10181.10	2.50	27881.00	67280.30	27881.00	2.739	
3.63	4.43	ø8/24	2	21	SLU	0.80	0.21	160.41	2.50	7597.19	52284.90	7597.19	0.25	0.76	1044.71	2.50	27881.00	59962.60	27881.00	26.688	
3.63	4.43	ø8/24	2	21	SND	0.80	0.21	3316.09	2.50	7597.19	55825.30	7597.19	0.25	0.76	14837.60	2.50	27881.00	64022.90	27881.00	1.879	
3.63	4.43	ø8/24	2	25	SND	0.80	0.21	3377.79	2.50	7597.19	55394.60	7597.19	0.25	0.76	13376.00	2.50	27881.00	63529.00	27881.00	2.084	

Relazione di calcolo

4.43	5.73	ø8/24	2	217	SLU	0.80	0.21	160.41	2.50	7597.19	52218.40	7597.19	0.25	0.76	1044.71	2.50	27881.00	59886.40	27881.00	26.688
4.43	5.73	ø8/24	2	213	SND	0.80	0.21	3316.09	2.50	7597.19	55774.10	7597.19	0.25	0.76	14837.60	2.50	27881.00	63964.20	27881.00	1.879
4.43	5.73	ø8/24	2	25	SND	0.80	0.21	3377.79	2.50	7597.19	55343.50	7597.19	0.25	0.76	13376.00	2.50	27881.00	63470.40	27881.00	2.084
5.73	6.53	ø8/24	2	217	SLU	0.80	0.21	160.41	2.50	7597.19	52110.80	7597.19	0.25	0.76	1044.71	2.50	27881.00	59763.00	27881.00	26.688
5.73	6.53	ø8/24	2	213	SND	0.80	0.21	3316.09	2.50	7597.19	55691.30	7597.19	0.25	0.76	14837.60	2.50	27881.00	63869.30	27881.00	1.879
5.73	6.53	ø8/24	2	25	SND	0.80	0.21	3377.79	2.50	7597.19	55260.70	7597.19	0.25	0.76	13376.00	2.50	27881.00	63375.40	27881.00	2.084
6.81	7.61	ø8/18	2	217	SLU	0.80	0.21	116.11	2.50	10129.60	50406.60	10129.60	0.25	0.76	1178.25	2.50	37174.60	57808.60	37174.60	31.551
6.81	7.61	ø8/18	2	213	SND	0.80	0.21	2524.53	2.50	10129.60	52823.70	10129.60	0.25	0.76	10938.50	2.50	37174.60	60580.60	37174.60	3.398
6.81	7.61	ø8/18	2	25	SND	0.80	0.21	2553.72	2.50	10129.60	52659.50	10129.60	0.25	0.76	9575.15	2.50	37174.60	60392.30	37174.60	3.882
7.61	8.91	ø8/18	2	217	SLU	0.80	0.21	116.11	2.50	10129.60	50340.10	10129.60	0.25	0.76	1178.25	2.50	37174.60	57732.30	37174.60	31.551
7.61	8.91	ø8/18	2	213	SND	0.80	0.21	2524.53	2.50	10129.60	52772.60	10129.60	0.25	0.76	10938.50	2.50	37174.60	60522.00	37174.60	3.398
7.61	8.91	ø8/18	2	25	SND	0.80	0.21	2553.72	2.50	10129.60	52608.30	10129.60	0.25	0.76	9575.15	2.50	37174.60	60333.60	37174.60	3.882
8.91	9.71	ø8/18	2	217	SLU	0.80	0.21	116.11	2.50	10129.60	50232.10	10129.60	0.25	0.76	1178.25	2.50	37174.60	57608.40	37174.60	31.551
8.91	9.71	ø8/18	2	213	SND	0.80	0.21	2524.53	2.50	10129.60	52689.50	10129.60	0.25	0.76	10938.50	2.50	37174.60	60426.70	37174.60	3.398
8.91	9.71	ø8/18	2	25	SND	0.80	0.21	2553.72	2.50	10129.60	52525.20	10129.60	0.25	0.76	9575.15	2.50	37174.60	60238.30	37174.60	3.882
9.99	11.77	ø8/18	2	217	SLU	0.80	0.21	31.93	2.50	10129.60	48811.00	10129.60	0.25	0.76	130.06	2.50	37174.60	55978.70	37174.60	>100
9.99	11.77	ø8/18	2	213	SND	0.80	0.21	4409.72	2.50	10129.60	50351.40	10129.60	0.25	0.76	13220.20	2.50	37174.60	57745.30	37174.60	2.297

Pilastrata n. 9

Nodi: 9 1009 2009 3009 4009

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>
1R		25.00	50.00	4.50	C32/40	332.00	21.69	188.13	14.46	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 <daNm>	MRdz <daNm>	α <grad>	ε _r	Sic.
3.63	17 (e)	SLU	2	1	0.00	-66195.90	-857.13	1323.92	-4165.00	-4165.00	-66195.90	3926.79	-12278.00	276.33	3.16	2.950
3.63	17 (e)	SLU	2	1	0.00	-66195.90	-857.13	1323.92	-4165.00	-4165.00	-66195.90	3926.79	-12278.00	276.33	3.16	2.950
6.53	17 (e)	SLU	2	1	289.50	-65019.80	815.66	1300.40	3749.60	3749.60	-65019.80	4428.86	12126.40	82.97	3.15	3.253
6.81	17 (e)	SLU	3	1	0.00	-32837.10	-380.50	656.74	-2996.21	-2996.21	-32837.10	2084.08	-10369.70	272.11	6.30	3.448
6.81	17 (e)	SLU	3	1	0.00	-32837.10	-380.50	656.74	-2996.21	-2996.21	-32837.10	2084.08	-10369.70	272.11	6.30	3.448
9.71	17 (e)	SLU	3	1	290.00	-31659.00	-29.90	633.18	2368.20	2368.20	-31659.00	2570.63	10251.10	87.19	6.12	4.311
9.99	17	SLU	4	1	0.00	-9602.13	-472.51	-472.51	-1299.11	-1299.11	-9602.13	-3263.73	-8553.08	266.84	7.93	6.622
9.99	17	SLU	4	1	0.00	-9602.13	-472.51	-472.51	-1299.11	-1299.11	-9602.13	-2038.01	-5446.63	267.19	10.73	4.207
13.17	17	SLU	4	1	317.58	-8311.96	1154.56	1154.56	842.96	842.96	-8311.96	6680.23	4938.66	75.94	6.85	5.811

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 <daNm>	M'yzd <daNm>	α <grad>	ε _r	Sic.
3.63	13	SND	2	1	0.00	-45489.40	-4051.23	-4051.23	-8043.67	-8043.67	-45489.40	-4527.22	-9175.17	262.27	4.07	1.136
3.63	13	SND	2	1	0.00	-45489.40	-4051.23	-4051.23	-8043.67	-8043.67	-45489.40	-4527.22	-9175.17	262.27	4.07	1.136
6.53	13	SND	2	1	289.50	-44584.70	3021.61	3021.61	7344.02	7344.02	-44584.70	3726.68	9329.75	84.38	4.53	1.265
6.81	13	SND	3	1	0.00	-19437.30	-2861.37	-2861.37	-6250.43	-6250.43	-19437.30	-3788.56	-7917.54	265.08	6.41	1.277
6.81	13	SND	3	1	0.00	-19437.30	-2861.37	-2861.37	-6250.43	-6250.43	-19437.30	-3788.56	-7917.54	265.08	6.41	1.277
9.71	13	SND	3	1	290.00	-18531.00	-3980.19	-3980.19	6083.27	6083.27	-18531.00	-4836.44	7493.72	97.03	5.90	1.227
9.99	13	SND	4	1	0.00	-4769.33	-689.62	-689.62	-1896.10	-1896.10	-4769.33	-2602.64	-7111.99	267.19	8.58	3.752
9.99	13	SND	4	1	0.00	-4769.33	-689.62	-689.62	-1896.10	-1896.10	-4769.33	-1507.27	-4367.76	267.89	12.27	2.289
13.17	13	SND	4	1	317.58	-3776.89	1550.92	1550.92	1662.41	1662.41	-3776.89	3154.22	3419.48	82.97	9.18	2.046

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
---	1	3.63	50.37	38.44
---	1	3.63	50.37	38.44
---	1	3.63	50.37	38.44

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	M'ydy,s <daNm>	MRdy,s <daNm>	M'yzd,s <daNm>	MRdz,s <daNm>	α <grad>	ε _r	Sic	
0.00	17 (e)	SLU	1	1	0.00	-100176.00	-154.37	-2003.52	-1297.41	-2003.52	-321711.00	-8754.03	-8852.70	-8754.03	-8754.03	-8852.70	-8852.70	-8852.70	255.94	2.04	3.2
0.00	17 (e)	SLU	1	1	0.00	-100176.00	-154.37	-2003.52	-1297.41	-2003.52	-321711.00	-8754.03	-8852.70	-8754.03	-8754.03	-8852.70	-8852.70	-8852.70	255.94	2.04	3.2
3.35	17 (e)	SLU	1	1	335.50	-98813.30	346.91	1976.27	2525.35	2525.35	-321711.00	7524.73	9164.90	7524.73	7524.73	9164.90	9164.90	9164.90	78.05	2.08	3.2

Stato limite elastico - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,s <daNm>	M'yzd,s <daNm>	M'ydy,s <daNm>	MRdy,s <daNm>	M'yzd,s <daNm>	MRdz,s <daNm>	α <grad>	ε _r	Sic.	
0.00	13	SND	1	1	0.00	-58796.90	-4560.55	-4560.55	-4347.50	-4347.50	-58796.90	-8067.73	-7749.02	-8067.73	-8067.73	-7749.02	-7749.02	-7749.02	255.23	3.12	1.77
0.00	13	SND	1	1	0.00	-58796.90	-4560.55	-4560.55	-4347.50	-4347.50	-58796.90	-8067.73	-7749.02	-8067.73	-8067.73	-7749.02	-7749.02	-7749.02	255.23	3.12	1.77
3.35	13 (e)	SND	1	1	335.50	-66652.20	1081.13	-1333.04	4231.85	4231.85	-66652.20	-3036.92	9552.87	-3036.92	-3036.92	9552.87	9552.87	9552.87	96.33	3.14	2.25

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	18	SLE R	1	1	0.00	-71867.50	-908.02	-107.15	0.00	22.12	59.32	815.14
0.00	20	SLE Q	1	1	0.00	-63770.80	-822.24	-75.17	0.00	22.12	52.74	723.94
0.00	18	SLE R	1	1	0.00	-71867.50	-908.02	-107.15	0.00	22.12	59.32	815.14
0.00	20	SLE Q	1	1	0.00	-63770.80	-822.24	-75.17	0.00	22.12	52.74	723.94
3.35	18	SLE R	1	1	335.50	-70819.10	1768.89	243.93	0.00	22.12	72.06	934.75
3.35	20	SLE Q	1	1	335.50	-62722.30	1580.97	240.91	0.00	22.12	64.19	831.89
3.63	18	SLE R	2	1	0.00	-47742.00	-2913.67	-604.23	6.53	15.58	78.83	920.21
3.63	20	SLE Q	2	1	0.00	-42527.60	-2595.94	-605.32	6.53	15.58	70.76	826.14
3.63	18	SLE R	2	1	0.00	-47742.00	-2913.67	-604.23	6.53	15.58	78.83	920.21

Relazione di calcolo

3.63	20	SLE Q	2	1	0.00	-42527.60	-2595.94	-605.32	6.53	15.58	70.76	826.14
6.53	18	SLE R	2	1	289.50	-46837.30	2618.97	574.36	0.00	22.12	72.74	861.53
6.53	20	SLE Q	2	1	289.50	-41622.90	2333.32	569.99	0.00	22.12	65.20	772.03
6.81	18	SLE R	3	1	0.00	-24075.20	-2110.98	-272.11	11.06	11.06	52.92	570.63
6.81	20	SLE Q	3	1	0.00	-21710.60	-1890.17	-273.76	11.06	11.06	47.68	515.37
6.81	18	SLE R	3	1	0.00	-24075.20	-2110.98	-272.11	11.06	11.06	52.92	570.63
6.81	20	SLE Q	3	1	0.00	-21710.60	-1890.17	-273.76	11.06	11.06	47.68	515.37
9.71	18	SLE R	3	1	290.00	-23168.90	1689.95	-14.23	11.06	11.06	41.49	477.61
9.71	20	SLE Q	3	1	290.00	-20804.30	1521.05	-3.93	11.06	11.06	37.26	429.50
9.99	18	SLE R	4	1	0.00	-7178.56	-955.24	-345.70	11.06	11.06	25.81	255.81
9.99	20	SLE Q	4	1	0.00	-6413.53	-856.91	-311.54	11.06	11.06	23.17	229.44
9.99	18	SLE R	4	1	0.00	-7178.56	-955.24	-345.70	6.03	6.03	31.79	397.15
9.99	20	SLE Q	4	1	0.00	-6413.53	-856.91	-311.54	6.03	6.03	28.55	358.26
13.17	18	SLE R	4	1	317.58	-6186.12	627.89	833.80	6.03	6.03	28.90	318.87
13.17	20	SLE Q	4	1	317.58	-5421.09	556.84	650.74	6.03	6.03	24.34	265.33

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>
9.99	20	SLE Q	4	1	0.00	-6413.53	-311.54	-856.91	34.00	208.00	0.50	16.00	192.08	2.01	155.93	358.26	0.10	0.03
9.99	19	SLE F	4	1	0.00	-6564.53	-315.98	-872.41	34.00	208.00	0.50	16.00	191.76	2.01	155.52	362.21	0.11	0.03
13.17	20	SLE Q	4	1	317.58	-5421.09	650.74	556.84	34.00	208.00	0.50	16.00	126.99	2.01	74.13	262.07	0.08	0.02
13.17	19	SLE F	4	1	317.58	-5572.09	687.63	568.88	34.00	208.00	0.50	16.00	126.53	2.01	73.55	271.91	0.08	0.02

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _{y,z} <cm>	d _{y,z} <cm>	Vsdu _{y,z} <daN>	ctgθ _{y,z}	VRsd _{y,z} <daN>	VRcd _{y,z} <daN>	Vrd _{y,z} <daN>	bw _z <cm>	d _z <cm>	Vsdu _z <daN>	ctgθ _z	VRsd _z <daN>	VRcd _z <daN>	Vrd _z <daN>	Sic.
0.00	0.56	ø8/18	2	21	SLU	0.50	0.21	1139.42	2.50	10129.60	37586.10	10129.60	0.25	0.46	149.41	2.50	22422.80	41600.20	22422.80	8.890	
0.00	0.56	ø8/18	2	21	SND	0.50	0.21	1938.56	2.50	10129.60	37586.10	10129.60	0.25	0.46	1754.56	2.50	22422.80	41600.20	22422.80	5.225	
0.00	0.56	ø8/18	2	21	SND	0.50	0.21	2557.01	2.50	10129.60	37586.10	10129.60	0.25	0.46	1665.88	2.50	22422.80	41600.20	22422.80	3.962	
0.56	2.80	ø8/18	2	21	SLU	0.50	0.21	1139.42	2.50	10129.60	37586.10	10129.60	0.25	0.46	149.41	2.50	22422.80	41600.20	22422.80	8.890	
0.56	2.80	ø8/18	2	21	SND	0.50	0.21	1938.56	2.50	10129.60	37586.10	10129.60	0.25	0.46	1754.56	2.50	22422.80	41600.20	22422.80	5.225	
0.56	2.80	ø8/18	2	21	SND	0.50	0.21	2557.01	2.50	10129.60	37586.10	10129.60	0.25	0.46	1665.88	2.50	22422.80	41600.20	22422.80	3.962	
2.80	3.35	ø8/18	2	21	SLU	0.50	0.21	1139.42	2.50	10129.60	37586.10	10129.60	0.25	0.46	149.41	2.50	22422.80	41600.20	22422.80	8.890	
2.80	3.35	ø8/18	2	21	SND	0.50	0.21	1938.56	2.50	10129.60	37586.10	10129.60	0.25	0.46	1754.56	2.50	22422.80	41600.20	22422.80	5.225	
2.80	3.35	ø8/18	2	21	SND	0.50	0.21	2557.01	2.50	10129.60	37586.10	10129.60	0.25	0.46	1665.88	2.50	22422.80	41600.20	22422.80	3.962	
3.63	4.13	ø8/18	2	21	SLU	0.50	0.21	2733.88	2.50	10129.60	37586.10	10129.60	0.25	0.46	577.82	2.50	22422.80	41600.20	22422.80	3.705	
3.63	4.13	ø8/18	2	21	SND	0.50	0.21	4146.30	2.50	10129.60	35948.60	10129.60	0.25	0.46	2582.83	2.50	22422.80	39787.80	22422.80	2.443	
3.63	4.13	ø8/18	2	21	SND	0.50	0.21	5315.18	2.50	10129.60	35885.30	10129.60	0.25	0.46	2440.00	2.50	22422.80	39717.70	22422.80	1.906	
4.13	6.03	ø8/18	2	21	SLU	0.50	0.21	2733.88	2.50	10129.60	37586.10	10129.60	0.25	0.46	577.82	2.50	22422.80	41600.20	22422.80	3.705	
4.13	6.03	ø8/18	2	21	SND	0.50	0.21	4146.30	2.50	10129.60	35928.60	10129.60	0.25	0.46	2582.83	2.50	22422.80	39765.70	22422.80	2.443	
4.13	6.03	ø8/18	2	21	SND	0.50	0.21	5315.18	2.50	10129.60	35865.30	10129.60	0.25	0.46	2440.00	2.50	22422.80	39695.60	22422.80	1.906	
6.03	6.53	ø8/18	2	21	SLU	0.50	0.21	2733.88	2.50	10129.60	37586.10	10129.60	0.25	0.46	577.82	2.50	22422.80	41600.20	22422.80	3.705	
6.03	6.53	ø8/18	2	21	SND	0.50	0.21	4146.30	2.50	10129.60	35852.90	10129.60	0.25	0.46	2582.83	2.50	22422.80	39681.90	22422.80	2.443	
6.03	6.53	ø8/18	2	21	SND	0.50	0.21	5315.18	2.50	10129.60	35789.60	10129.60	0.25	0.46	2440.00	2.50	22422.80	39611.80	22422.80	1.906	
6.81	7.31	ø8/18	2	21	SLU	0.50	0.21	1849.79	2.50	10129.60	34267.50	10129.60	0.25	0.46	120.90	2.50	22422.80	37927.20	22422.80	5.476	
6.81	7.31	ø8/18	2	21	SND	0.50	0.21	3335.25	2.50	10129.60	33133.70	10129.60	0.25	0.46	2452.38	2.50	22422.80	36672.20	22422.80	3.037	
6.81	7.31	ø8/18	2	21	SND	0.50	0.21	4252.82	2.50	10129.60	33105.40	10129.60	0.25	0.46	2324.02	2.50	22422.80	36640.90	22422.80	2.382	
7.31	9.21	ø8/18	2	21	SLU	0.50	0.21	1849.79	2.50	10129.60	34241.50	10129.60	0.25	0.46	120.90	2.50	22422.80	37898.40	22422.80	5.476	
7.31	9.21	ø8/18	2	21	SND	0.50	0.21	3335.25	2.50	10129.60	33113.70	10129.60	0.25	0.46	2452.38	2.50	22422.80	36650.10	22422.80	3.037	
7.31	9.21	ø8/18	2	21	SND	0.50	0.21	4252.82	2.50	10129.60	33085.40	10129.60	0.25	0.46	2324.02	2.50	22422.80	36618.80	22422.80	2.382	
9.21	9.71	ø8/18	2	21	SLU	0.50	0.21	1849.79	2.50	10129.60	34142.90	10129.60	0.25	0.46	120.90	2.50	22422.80	37789.20	22422.80	5.476	
9.21	9.71	ø8/18	2	21	SND	0.50	0.21	3335.25	2.50	10129.60	33037.80	10129.60	0.25	0.46	2452.38	2.50	22422.80	36566.10	22422.80	3.037	
9.21	9.71	ø8/18	2	21	SND	0.50	0.21	4252.82	2.50	10129.60	33009.50	10129.60	0.25	0.46	2324.02	2.50	22422.80	36534.80	22422.80	2.382	
9.99	10.52	ø8/18	2	21	SLU	0.50	0.21	674.50	2.50	10129.60	31296.60	10129.60	0.25	0.46	512.33	2.50	22422.80	34639.00	22422.80	15.018	
9.99	10.52	ø8/18	2	21	SND	0.50	0.21	997.60	2.50	10129.60	31108.40	10129.60	0.25	0.46	617.72	2.50	22422.80	34430.60	22422.80	10.154	
9.99	10.52	ø8/18	2	21	SND	0.50	0.21	1119.85	2.50	10129.60	31097.50	10129.60	0.25	0.46	565.34	2.50	22422.80	34418.60	22422.80	9.045	
10.52	12.64	ø8/18	2	21	SLU	0.50	0.21	674.50	2.50	10129.60	31269.10	10129.60	0.25	0.46	512.33	2.50	22422.80	34608.60	22422.80	15.018	
10.52	12.64	ø8/18	2	21	SND	0.50	0.21	997.60	2.50	10129.60	31087.20	10129.60	0.25	0.46	617.72	2.50	22422.80	34407.20	22422.80	10.154	
10.52	12.64	ø8/18	2	21	SND	0.50	0.21	1119.85	2.50	10129.60	31076.30	10129.60	0.25	0.46	565.34	2.50	22422.80	34395.20	22422.80	9.046	
12.64	13.17	ø8/18	2	21	SLU	0.50	0.21	674.48	2.50	10129.60	31159.20	10129.60	0.25	0.46	512.32	2.50	22422.80	34486.90	22422.80	15.018	
12.64	13.17	ø8/18	2	21	SND	0.50	0.21	997.58	2.50	10129.60	31002.60	10129.60	0.25	0.46	617.71	2.50	22422.80	34313.60	22422.80	10.154	
12.64	13.17	ø8/18	2	21	SND	0.50	0.21	1119.83	2.50	10129.60	30991.70	10129.60	0.25	0.46	565.33	2.50	22422.80	34301.50	22422.80	9.046	

Pilastrata n. 10

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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>
1R		25.00	50.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04
1R		25.00	50.00	4.30	C32/40	332.00	21.69	188.13	14.46	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 <daNm>	MRdz <daNm>	α <grad>	ε _y	Sic.
3.63	17 (e)	SLU	2	1	0.00	-63224.80	298.29	1264.50	656.38	1264.50	-282373.00	7969.25	7790.93	73.83	3.18	4.466
3.63	17 (e)	SLU	2	1	0.00	-63224.80	298.29	1264.50	656.38	1264.50	-282373.00	7969.25	7790.93	73.83	3.18	4.466
6.53	17 (e)	SLU	2	1	289.50	-62048.80	-405.12	-1240.97	-617.62	-1240.97	-282373.00	-7611.77	-7862.29	254.53	3.24	4.551
6.81	17 (e)	SLU	3	1	0.00	-27219.40	257.44	544.39	645.02	645.02	-27219.40	5531.80	6605.32	79.45	5.71	10.208
6.81	17 (e)	SLU	3	1	0.00	-27219.40	257.44	544.39	645.02	645.02	-300075.00	6768.39	7921.38	78.75	5.06	11.024
9.71	17 (e)	SLU	3	1	290.00	-26041.30	6.83	520.83	-637.15	-637.15	-300075.00	6278.73	-7917.85	279.84	5.41	11.523
9.99	17	SLU	4	1	0.00	-10911.80	-680.50	-680.50	825.17	825.17	-10911.80	-5507.06	6818.67	97.73	7.07	8.195
11.31	17	SLU	4	1	132.08	-10375.20	1533.99	1533.99	-406.89	-406.89	-10375.20	13785.30	-3522.00	315.00	6.31	8.965

Relazione di calcolo

3.63	9	SND	2	1	0.00	-31878.90	4093.52	4093.52	3781.49	3781.49	-31878.90	5859.68	5501.48	74.53	4.68	1.442
3.63	9	SND	2	1	0.00	-31878.90	4093.52	4093.52	3781.49	3781.49	-31878.90	5859.68	5501.48	74.53	4.68	1.442
6.53	13	SND	2	1	289.50	-30796.20	-2742.60	-2742.60	-3515.83	-3515.83	-30796.20	-4309.02	-5716.17	260.16	5.55	1.605
6.81	13	SND	3	1	0.00	-9639.77	4432.18	4432.18	3273.03	3273.03	-9639.77	4685.02	3533.30	75.94	6.71	1.065
6.81	13	SND	3	1	0.00	-9639.77	-4308.86	-4308.86	3273.03	3273.03	-9639.77	-5915.30	4651.68	104.06	5.94	1.391
9.71	13	SND	3	1	290.00	-8733.52	7555.64	7555.64	-3667.04	-3667.04	-8733.52	7761.74	-3778.86	293.91	5.38	1.028
9.99	1	SND	4	1	0.00	1383.47	-5947.28	-5947.28	1885.12	1885.12	1383.47	-8015.18	2610.40	129.38	7.04	1.351
11.31	13	SND	4	1	132.08	1582.39	1333.87	1333.87	-537.26	-537.26	1582.39	7278.15	-3011.56	300.94	6.54	5.477

Dati per verifiche di stabilità

Xg <m>	El <m>	l ₀ <m>	λ	λ*
---	1	3.63	50.37	38.47
---	1	3.63	50.37	38.47
---	1	3.63	50.37	38.47

Stato limite ultimo - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	MRdy,s <daNm>	MRdz,s <daNm>	M'ydy,s <daNm>	MRdy,s <daNm>	M'ydz,s <daNm>	MRdz,s <daNm>	α <grad>	ε _r	Sic.
0.00	17(e)	SLU	1	1	0.00	-99995.10	833.01	1999.90	110.97	1999.90	-282373.00	6798.00	6778.00	6798.00	6798.00	6778.00	6778.00	73.83	2.06	2.824
0.00	17(e)	SLU	1	1	0.00	-99995.10	833.01	1999.90	110.97	1999.90	-282373.00	6798.00	6778.00	6798.00	6798.00	6778.00	6778.00	73.83	2.06	2.824
3.35	17(e)	SLU	1	1	335.50	-98632.20	-568.05	-1972.64	-328.59	-1972.64	-282373.00	-6816.84	-6780.69	-6816.84	-6816.84	-6780.69	-6780.69	253.83	2.09	2.863

Stato limite elastico - Verifiche a flessione/pressoflessione - Controlli di stabilità

Xg <m>	CC	TCC	El	Sez.	X <cm>	N <daN>	My <daNm>	My ver. <daNm>	Mz <daNm>	Mz ver. <daNm>	Nu <daN>	M'ydy,s <daNm>	M'ydz,s <daNm>	M'ydy,s <daNm>	MRdy,s <daNm>	M'ydz,s <daNm>	MRdz,s <daNm>	α <grad>	ε _r	Sic.
0.00	1	SND	1	1	0.00	-54272.90	5613.30	5613.30	-2280.92	-2280.92	-54272.90	10307.10	-4224.62	10307.10	10307.10	-4224.62	-4224.62	300.94	3.47	1.838
0.00	1	SND	1	1	0.00	-54272.90	5613.30	5613.30	-2280.92	-2280.92	-54272.90	10307.10	-4224.62	10307.10	10307.10	-4224.62	-4224.62	300.94	3.47	1.838
3.35	13(e)	SND	1	1	335.50	-73142.20	1064.89	1462.84	1210.79	1462.84	-235167.00	6465.36	6431.07	6465.36	6465.36	6431.07	6431.07	73.83	2.84	3.215

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 _ε <daN/cmq>
0.00	18	SLE R	1	1	0.00	-72194.00	87.70	608.75	0.00	12.06	56.73	831.61
0.00	20	SLE Q	1	1	0.00	-64150.20	19.34	580.89	0.00	12.06	49.79	733.53
0.00	18	SLE R	1	1	0.00	-72194.00	87.70	608.75	0.00	12.06	56.73	831.61
0.00	20	SLE Q	1	1	0.00	-64150.20	19.34	580.89	0.00	12.06	49.79	733.53
3.35	18	SLE R	1	1	335.50	-71145.50	-248.46	-390.30	0.00	12.06	56.84	824.61
3.35	20	SLE Q	1	1	335.50	-63101.80	-134.01	-384.05	0.00	12.06	49.33	721.30
3.63	18	SLE R	2	1	0.00	-46108.30	490.26	170.30	0.00	12.06	41.48	579.01
3.63	20	SLE Q	2	1	0.00	-41197.00	297.63	198.27	0.00	12.06	35.17	499.41
3.63	18	SLE R	2	1	0.00	-46108.30	490.26	170.30	0.00	12.06	41.48	579.01
3.63	20	SLE Q	2	1	0.00	-41197.00	297.63	198.27	0.00	12.06	35.17	499.41
6.53	18	SLE R	2	1	289.50	-45203.70	-460.76	-251.66	0.00	12.06	41.03	572.92
6.53	20	SLE Q	2	1	289.50	-40292.40	-277.76	-274.07	0.00	12.06	34.83	494.30
6.81	18	SLE R	3	1	0.00	-20587.30	482.90	165.37	0.00	12.06	23.49	309.82
6.81	20	SLE Q	3	1	0.00	-18762.90	341.27	175.47	0.00	12.06	20.01	268.97
6.81	18	SLE R	3	1	0.00	-20587.30	482.90	165.37	0.00	16.59	22.35	292.93
6.81	20	SLE Q	3	1	0.00	-18762.90	341.27	175.47	0.00	16.59	19.03	254.50
9.71	18	SLE R	3	1	290.00	-19681.10	-478.79	5.46	0.00	16.59	20.50	269.99
9.71	20	SLE Q	3	1	290.00	-17856.60	-380.44	1.93	0.00	16.59	17.75	236.73
9.99	18	SLE R	4	1	0.00	-8255.44	624.55	-508.07	5.15	11.44	21.30	243.00
9.99	20	SLE Q	4	1	0.00	-7445.93	544.97	-468.18	5.15	11.44	18.84	216.27
11.31	18	SLE R	4	1	132.08	-7842.69	-305.88	1130.78	6.28	10.30	20.55	249.18
11.31	20	SLE Q	4	1	132.08	-7033.18	-253.06	956.14	3.14	13.45	17.26	211.04

Stato limite ultimo - Verifiche a taglio

X0 <m>	X1 <m>	Staff.	Br _y	Br _z	CC	TCC	bw _{r,y} <m>	d _{r,y} <m>	Vsdu _{r,y} <daN>	ctgθ _{r,y}	VRsd _{r,y} <daN>	VRcd _{r,y} <daN>	Vrd _{r,y} <daN>	bw _{r,z} <m>	d _{r,z} <m>	Vsdu _{r,z} <daN>	ctgθ _{r,z}	VRsd _{r,z} <daN>	VRcd _{r,z} <daN>	Vrd _{r,z} <daN>	Sic.
0.00	0.56	ø8/18	2	217	SLU	0.50	0.21	131.02	2.50	10129.60	37586.10	10129.60	0.25	0.46	417.60	2.50	22422.80	41600.20	22422.80	53.694	
0.00	0.56	ø8/18	2	21	SND	0.50	0.21	1132.26	2.50	10129.60	37586.10	10129.60	0.25	0.46	2224.05	2.50	22422.80	41600.20	22422.80	8.946	
0.00	0.56	ø8/18	2	213	SND	0.50	0.21	1242.76	2.50	10129.60	37586.10	10129.60	0.25	0.46	2035.51	2.50	22422.80	41600.20	22422.80	8.151	
0.56	2.80	ø8/18	2	217	SLU	0.50	0.21	131.02	2.50	10129.60	37586.10	10129.60	0.25	0.46	417.60	2.50	22422.80	41600.20	22422.80	53.694	
0.56	2.80	ø8/18	2	21	SND	0.50	0.21	1132.26	2.50	10129.60	37586.10	10129.60	0.25	0.46	2224.05	2.50	22422.80	41600.20	22422.80	8.946	
0.56	2.80	ø8/18	2	213	SND	0.50	0.21	1242.76	2.50	10129.60	37586.10	10129.60	0.25	0.46	2035.51	2.50	22422.80	41600.20	22422.80	8.151	
2.80	3.35	ø8/18	2	217	SLU	0.50	0.21	131.02	2.50	10129.60	37586.10	10129.60	0.25	0.46	417.60	2.50	22422.80	41600.20	22422.80	53.694	
2.80	3.35	ø8/18	2	21	SND	0.50	0.21	1132.26	2.50	10129.60	37586.10	10129.60	0.25	0.46	2224.05	2.50	22422.80	41600.20	22422.80	8.946	
2.80	3.35	ø8/18	2	213	SND	0.50	0.21	1242.76	2.50	10129.60	37586.10	10129.60	0.25	0.46	2035.51	2.50	22422.80	41600.20	22422.80	8.151	
3.63	4.13	ø8/18	2	217	SLU	0.50	0.21	440.07	2.50	10129.60	37586.10	10129.60	0.25	0.46	242.97	2.50	22422.80	41600.20	22422.80	23.018	
3.63	4.13	ø8/18	2	21	SND	0.50	0.21	2104.27	2.50	10129.60	36527.90	10129.60	0.25	0.46	2579.22	2.50	22422.80	40428.90	22422.80	4.814	
3.63	4.13	ø8/18	2	213	SND	0.50	0.21	2541.94	2.50	10129.60	36583.10	10129.60	0.25	0.46	2330.42	2.50	22422.80	40490.00	22422.80	3.985	
4.13	6.03	ø8/18	2	217	SLU	0.50	0.21	440.07	2.50	10129.60	37586.10	10129.60	0.25	0.46	242.97	2.50	22422.80	41600.20	22422.80	23.018	
4.13	6.03	ø8/18	2	21	SND	0.50	0.21	2104.27	2.50	10129.60	36507.90	10129.60	0.25	0.46	2579.22	2.50	22422.80	40406.80	22422.80	4.814	
4.13	6.03	ø8/18	2	213	SND	0.50	0.21	2541.94	2.50	10129.60	36563.10	10129.60	0.25	0.46	2330.42	2.50	22422.80	40467.90	22422.80	3.985	
6.03	6.53	ø8/18	2	217	SLU	0.50	0.21	440.07	2.50	10129.60	37586.10	10129.60	0.25	0.46	242.97	2.50	22422.80	41600.20	22422.80	23.018	
6.03	6.53	ø8/18	2	21	SND	0.50	0.21	2104.27	2.50	10129.60	36432.20	10129.60	0.25	0.46	2579.22	2.50	22422.80	40323.00	22422.80	4.814	
6.03	6.53	ø8/18	2	213	SND	0.50	0.21	2541.94	2.50	10129.60	36487.40	10129.60	0.25	0.46	2330.42	2.50	22422.80	40384.10	22422.80	3.985	
6.81	7.31	ø8/18	2	217	SLU	0.50	0.21	442.13	2.50	10129.60	33549.20	10129.60	0.25	0.46	86.42	2.50	22422.80	37132.20	22422.80	22.911	
6.81	7.31	ø8/18	2	21	SND	0.50	0.21	1985.19	2.50	10129.60	33608.80	10129.60	0.25	0.46	4312.14	2.50	22422.80	37198.10	22422.80	5.103	
6.81	7.31	ø8/18	2	213	SND	0.50	0.21	2393.01	2.50	10129.60	33685.10	10129.60	0.25	0.46	4090.35	2.50	22422.80	37282.60	22422.80	4.233	
7.31	9.21	ø8/18	2	217	SLU	0.50	0.21	442.13	2.50	10129.60	33523.30	10129.60	0.25	0.46	86.42	2.50	22422.80	37103.40	22422.80	22.911	
7.31	9.21	ø8/18	2	21	SND	0.50	0.21	1985.19	2.50	10129.60	33588.80	10129.60	0.25	0.46	4312.14	2.50	22422.80	37176.00	22422.80	5.103	
7.31	9.21	ø8/18	2	213	SND	0.50	0.21	2393.01	2.50	10129.60	33665.20	10129.60	0.25	0.46	4090.35	2.50	22422.80	37260.50	22422.80	4.233	
9.21	9.71	ø8/18	2	217	SLU	0.50	0.21	442.13	2.50	10129.60	33424.60	10129.60	0.25	0.46	86.42	2.50	22422.80	36994.20	22422.80	22.911	
9.21	9.71	ø8/18	2	21	SND	0.50	0.21	1985.19	2.50	10129.60	33512.90	10129.60	0.25	0.46	4312.14	2.50	22422.80	37092.00	22422.80	5.103	
9.21	9.71	ø8/18	2	213	SND	0.50	0.21	2393.01	2.50	10129.60	33589.30	10129.60	0.25	0.46	4090.35	2.50	22422.80	37176.40	22422.80	4.233	
9.99	11.31	ø8/18	2	217	SLU	0.50	0.21	932.82	2.50	10129.60	31464.10	10129.60	0.25	0.46	1676.64	2.50	22422.80	34824.30	22422.80	10.859	
9.99	11.31	ø8/18	2	21	SND	0.50	0.21	1861.68	2.50	10129.60	32095.80	10129.60	0.25	0.46	5089.85	2.50	22422.80	35523.50	22422.80	4.404	

9.99	11.31	08/18	2	25	SND	0.50	0.21	1894.56	2.50	10129.60	32122.60	10129.60	0.25	0.46	5001.36	2.50	22422.80	35553.10	22422.80	4.483
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Verifiche e armature nuclei

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
Liv.	=Numero del livello
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
Par.	=Parete
Pos.	=Posizione (P=Piede, T=Testa)
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
	SND = Stato limite di salvaguardia della vita (non dissipativo)
Tp	=Tipo di acciaio
VRcd	=Taglio ultimo lato calcestruzzo
VRsd	=Taglio ultimo lato armatura
Vsdu	=Taglio agente nella direzione del momento ultimo
Wk	=Ampiezza caratteristica delle fessure
c	=Ricoprimento dell'armatura
ctg θ	=Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s	=Distanza massima tra le barre

Numero del nucleo n. 120

Nodi: -37696 -2285 -2291 -2229 -2236 -2174

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy	MRdz	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	17	SLU	-71589.90	-1182.46	1180.40	-823201.00	-33393.80	33138.80	11.499
2	P	17	SLU	-71393.50	-1149.28	1085.61	-823201.00	-33596.90	32137.00	11.530
3	P	17	SLU	-71197.10	-1116.09	990.82	-823201.00	-33976.70	29900.00	11.562
4	P	17	SLU	-71000.60	-1082.91	896.03	-823201.00	-34262.90	28103.50	11.594
5	P	17	SLU	-70804.20	-1049.73	801.24	-823201.00	-34429.20	26365.30	11.626
6	P	17	SLU	-70607.80	-1016.54	706.46	-823201.00	-34612.30	23718.00	11.659
7	P	17	SLU	-70411.40	-983.36	611.67	-823201.00	-34753.30	21755.90	11.691
8	P	17	SLU	-70215.00	-950.18	516.89	-823201.00	-34915.50	18684.70	11.724
9	P	17	SLU	-70018.60	-916.99	422.09	-823201.00	-35018.20	16374.50	11.757
10	P	17	SLU	-69822.20	-883.81	327.31	-823201.00	-35100.70	13095.00	11.790
11	P	17	SLU	-69625.80	-850.63	232.53	-823201.00	-35178.40	9407.18	11.823
12	P	17	SLU	-69429.40	-817.44	137.74	-823201.00	-35236.90	6018.26	11.857

Relazione di calcolo

13	P	17	SLU	-69233.00	-784.26	42.96	-823201.00	-35035.40	1684.60	11.890
14	P	17	SLU	-69036.60	-751.08	-51.82	-823201.00	-35068.50	-2609.80	11.924
15	P	17	SLU	-68840.20	-717.89	-146.61	-823201.00	-35081.90	-6979.43	11.958
16	P	17	SLU	-49979.80	2715.79	-779.69	-49979.80	33250.70	-9636.82	12.252

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yzd <daNm>	Sic.
1	P	13	SND	-38786.30	-3632.70	-80070.80	-38786.30	-3815.61	-82986.90	1.036
2	P	13	SND	-38635.20	-3379.47	-74573.00	-38635.20	-3814.79	-82963.90	1.113
3	P	13	SND	-38484.20	-3126.29	-69076.70	-38484.20	-3812.91	-82918.00	1.200
4	P	13	SND	-38333.10	-2873.18	-63582.50	-38333.10	-3812.09	-82895.10	1.304
5	P	13	SND	-38182.00	-2620.17	-58090.80	-38182.00	-3810.22	-82849.20	1.426
6	P	13	SND	-38030.90	-2367.29	-52602.20	-38030.90	-3809.40	-82826.20	1.575
7	P	13	SND	-37879.80	-2114.61	-47118.20	-37879.80	-3807.53	-82780.30	1.757
8	P	13	SND	-37728.80	-1862.24	-41640.20	-37728.80	-3806.71	-82757.40	1.988
9	P	13	SND	-37577.70	-1610.39	-36170.60	-37577.70	-3804.84	-82711.50	2.287
10	P	13	SND	-37426.60	-1359.57	-30714.70	-37426.60	-3804.03	-82688.60	2.692
11	P	13	SND	-37275.50	-1111.05	-25280.50	-37275.50	-3802.16	-82642.70	3.269
12	P	13	SND	-37124.40	-869.92	-19885.60	-37124.40	-3801.34	-82619.80	4.155
13	P	13	SND	-36973.40	-675.16	-14573.20	-36973.40	-3799.47	-82574.00	5.666
14	P	13	SND	-36822.30	-707.74	-9477.20	-36822.30	-5461.71	-79094.60	8.342
15	P	5	SND	-53783.30	-898.39	4939.91	-469158.00	-12697.90	68685.40	8.723
16	P	13	SND	-27276.40	3878.78	-35598.60	-27276.40	7562.35	-72425.20	2.034

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_t <daN/cm ² >
1	P	18	SLE R	-51751.50	-883.89	923.02	19.97	270.03
1	P	20	SLE Q	-47342.30	-821.95	877.50	18.40	248.46
2	P	18	SLE R	-51600.40	-854.94	847.23	19.65	266.24
2	P	20	SLE Q	-47191.30	-797.49	805.50	18.11	245.00
3	P	18	SLE R	-51449.30	-825.99	771.43	19.33	262.46
3	P	20	SLE Q	-47040.20	-773.03	733.51	17.82	241.55
4	P	18	SLE R	-51298.20	-797.05	695.63	19.00	258.68
4	P	20	SLE Q	-46889.10	-748.57	661.51	17.52	238.09
5	P	18	SLE R	-51147.10	-768.10	619.84	18.68	254.89
5	P	20	SLE Q	-46738.00	-724.12	589.52	17.23	234.64
6	P	18	SLE R	-50996.10	-739.15	544.04	18.36	251.11
6	P	20	SLE Q	-46587.00	-699.65	517.52	16.94	231.18
7	P	18	SLE R	-50845.00	-710.21	468.25	18.03	247.33
7	P	20	SLE Q	-46435.90	-675.20	445.54	16.65	227.73
8	P	18	SLE R	-50693.90	-681.26	392.45	17.71	243.54
8	P	20	SLE Q	-46284.80	-650.74	373.55	16.36	224.28
9	P	18	SLE R	-50542.80	-652.31	316.65	17.39	239.76
9	P	20	SLE Q	-46133.70	-626.28	301.54	16.07	220.82
10	P	18	SLE R	-50391.70	-623.36	240.86	17.06	235.97
10	P	20	SLE Q	-45982.60	-601.82	229.55	15.78	217.37
11	P	18	SLE R	-50240.70	-594.42	165.07	16.74	232.19
11	P	20	SLE Q	-45831.60	-577.36	157.56	15.49	213.91
12	P	18	SLE R	-50089.60	-565.47	89.27	16.42	228.41
12	P	20	SLE Q	-45680.50	-552.90	85.57	15.19	210.46
13	P	18	SLE R	-49938.50	-536.52	13.48	16.10	224.62
13	P	20	SLE Q	-45529.40	-528.44	13.58	14.90	207.00
14	P	18	SLE R	-49787.40	-507.58	-62.31	15.96	223.45
14	P	20	SLE Q	-45378.30	-503.98	-58.41	14.79	205.99
15	P	18	SLE R	-49636.30	-478.63	-138.10	15.87	222.84
15	T	18	SLE R	-49485.30	-449.68	-213.90	15.78	222.22
15	P	20	SLE Q	-45227.20	-479.52	-130.40	14.72	205.55
16	P	18	SLE R	-36335.90	1887.32	-536.05	21.50	257.80
16	P	20	SLE Q	-33264.20	1830.57	-555.90	20.48	243.74

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	23320.30	2.50	28102.20	75654.30	1.205
2	P	5	23320.30	2.50	28102.20	75631.90	1.205
3	P	5	23320.30	2.50	28102.20	75609.50	1.205
4	P	5	23320.30	2.50	28102.20	75587.10	1.205
5	P	5	23320.30	2.50	28102.20	75564.80	1.205
6	P	5	23320.30	2.50	28102.20	75542.40	1.205
7	P	5	23320.30	2.50	28102.20	75520.00	1.205
8	P	5	23320.30	2.50	28102.20	75497.60	1.205
9	P	5	23320.30	2.50	28102.20	75475.20	1.205
10	P	5	23320.30	2.50	28102.20	75452.80	1.205
11	P	5	23320.30	2.50	28102.20	75430.40	1.205
12	P	5	23320.30	2.50	28102.20	75408.10	1.205
13	P	5	23320.30	2.50	28102.20	75385.70	1.205

Relazione di calcolo

14	P	5	23320.30	2.50	28102.20	75363.30	1.205	
15	P	5	23320.30	2.50	28102.20	75340.90	1.205	

Numero del nucleo n. 121

Nodi: -2136 -2116 -2124 -2130 -2103 -2110

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-75247.50	-1639.27	-1454.86	-977624.00	-41830.20	-36915.80	12.992
2	P	17	SLU	-75030.90	-1527.63	-1297.84	-977624.00	-42067.40	-35490.00	13.030
3	P	17	SLU	-74814.30	-1415.98	-1140.83	-977624.00	-42262.90	-34013.30	13.067
4	P	17	SLU	-74597.70	-1304.34	-983.82	-977624.00	-42501.20	-32055.80	13.105
5	P	17	SLU	-74381.10	-1192.70	-826.82	-977624.00	-42679.30	-29506.30	13.143
6	P	17	SLU	-74164.50	-1081.06	-669.81	-977624.00	-42859.80	-26740.20	13.182
7	P	17	SLU	-73947.90	-969.42	-512.81	-977624.00	-43015.10	-22483.00	13.220
8	P	17	SLU	-73731.40	-857.78	-355.80	-977624.00	-43186.10	-17886.80	13.259
9	P	17	SLU	-73514.80	-746.13	-198.81	-977624.00	-43358.50	-11706.00	13.298
10	P	17	SLU	-73298.20	-634.49	-41.81	-977624.00	-43209.00	-2774.17	13.338
11	P	17	SLU	-73081.60	-522.85	115.19	-977624.00	-43323.40	9842.62	13.377
12	P	17	SLU	-72865.00	-411.20	272.20	-977624.00	-42724.30	27915.80	13.417
13	P	17	SLU	-72648.40	-299.56	429.20	-977624.00	-38302.40	54674.40	13.457
14	P	17	SLU	-72431.90	-187.92	586.21	-977624.00	-29675.30	90088.90	13.497
15	P	17	SLU	-72215.30	-76.28	743.22	-977624.00	-14650.40	141332.00	13.538
16	P	17	SLU	-53023.90	1565.73	-1057.58	-977624.00	41411.20	-28083.50	18.437

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	13	SND	-46703.10	-3497.29	-106225.00	-46703.10	-4381.96	-107668.00	1.014
2	P	13	SND	-46536.50	-3231.42	-99255.90	-46536.50	-4380.21	-107624.00	1.085
3	P	13	SND	-46369.90	-2965.63	-92289.20	-46369.90	-4378.47	-107579.00	1.166
4	P	13	SND	-46203.30	-2699.94	-85325.40	-46203.30	-3011.03	-110698.00	1.297
5	P	13	SND	-46036.70	-2434.39	-78365.00	-46036.70	-3010.16	-110653.00	1.412
6	P	13	SND	-45870.10	-2169.03	-71409.00	-45870.10	-3009.39	-110607.00	1.549
7	P	13	SND	-45703.50	-1903.95	-64459.10	-45703.50	-3009.03	-110584.00	1.715
8	P	13	SND	-45536.90	-1639.29	-57517.20	-45536.90	-3008.13	-110537.00	1.922
9	P	13	SND	-45370.30	-1375.31	-50586.00	-45370.30	-3007.32	-110490.00	2.184
10	P	13	SND	-45203.60	-1112.60	-43671.30	-45203.60	-3006.95	-110466.00	2.530
11	P	13	SND	-45037.00	-852.51	-36781.70	-45037.00	-3006.04	-110419.00	3.002
12	P	13	SND	-44870.40	-599.36	-29933.10	-44870.40	-3005.22	-110372.00	3.688
13	P	5	SND	-44824.90	-415.98	23696.00	-44824.90	-1891.26	112954.00	4.767
14	P	5	SND	-44658.30	-324.76	17332.40	-44658.30	-1891.29	112906.00	6.514
15	P	5	SND	-44491.70	-387.15	11399.50	-44491.70	-3003.66	110277.00	9.672
16	P	13	SND	-33033.20	2925.32	-39665.30	-33033.20	7316.18	-97942.70	2.469

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1	P	18	SLE R	-54386.60	-1198.44	-1015.11	19.29	253.98
1	P	20	SLE Q	-49685.10	-1121.80	-1213.32	18.11	238.16
2	P	18	SLE R	-54220.00	-1115.89	-906.98	18.70	247.72
2	P	20	SLE Q	-49518.50	-1045.68	-1089.90	17.54	231.94
3	P	18	SLE R	-54053.40	-1033.34	-798.86	18.12	241.47
3	P	20	SLE Q	-49351.90	-969.56	-966.50	16.97	225.73
4	P	18	SLE R	-53886.80	-950.79	-690.74	17.54	235.22
4	P	20	SLE Q	-49185.30	-893.44	-843.10	16.40	219.52
5	P	18	SLE R	-53720.20	-868.23	-582.62	16.96	228.97
5	P	20	SLE Q	-49018.70	-817.32	-719.70	15.83	213.31
6	P	18	SLE R	-53553.60	-785.68	-474.51	16.37	222.72
6	P	20	SLE Q	-48852.10	-741.20	-596.30	15.26	207.10
7	P	18	SLE R	-53387.00	-703.13	-366.39	15.79	216.47
7	P	20	SLE Q	-48685.50	-665.08	-472.90	14.69	200.89
8	P	18	SLE R	-53220.40	-620.58	-258.28	15.21	210.22
8	P	20	SLE Q	-48518.90	-588.96	-349.50	14.12	194.68
9	P	18	SLE R	-53053.80	-538.02	-150.17	14.62	203.97
9	P	20	SLE Q	-48352.30	-512.84	-226.11	13.55	188.46
10	P	18	SLE R	-52887.20	-455.47	-42.06	14.04	197.72
10	P	20	SLE Q	-48185.70	-436.72	-102.72	12.98	182.25
11	P	18	SLE R	-52720.60	-372.92	66.06	13.62	193.72
11	P	20	SLE Q	-48019.10	-360.60	20.68	12.46	176.75

Relazione di calcolo

12	P	18	SLE R	-52554.00	-290.36	174.18	13.31	191.15
12	P	20	SLE Q	-47852.50	-284.47	144.08	12.20	174.74
13	P	18	SLE R	-52387.40	-207.81	282.29	12.99	188.59
13	P	20	SLE Q	-47685.90	-208.35	267.48	11.94	172.74
14	P	18	SLE R	-52220.80	-125.26	390.41	12.68	186.02
14	P	20	SLE Q	-47519.30	-132.23	390.88	11.67	170.73
15	T	18	SLE R	-51887.60	39.84	606.65	12.45	184.61
15	P	20	SLE Q	-47352.60	-56.11	514.28	11.41	168.73
16	P	18	SLE R	-38527.90	1108.22	-705.67	14.94	191.79
16	P	20	SLE Q	-35216.40	1069.88	-676.95	13.98	178.51

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	28818.60	2.50	48542.70	83788.30	1.684
2	P	13	28818.60	2.50	48542.70	83763.50	1.684
3	P	13	28818.60	2.50	48542.70	83738.80	1.684
4	P	13	28818.60	2.50	48542.70	83714.00	1.684
5	P	13	28818.60	2.50	48542.70	83689.30	1.684
6	P	13	28818.60	2.50	48542.70	83664.50	1.684
7	P	13	28818.60	2.50	48542.70	83639.80	1.684
8	P	13	28818.60	2.50	48542.70	83615.00	1.684
9	P	13	28818.60	2.50	48542.70	83590.30	1.684
10	P	13	28818.60	2.50	48542.70	83565.50	1.684
11	P	13	28818.60	2.50	48542.70	83540.80	1.684
12	P	13	28818.60	2.50	48542.70	83516.00	1.684
13	P	13	28818.60	2.50	48542.70	83491.30	1.684
14	P	13	28818.60	2.50	48542.70	83466.50	1.684
15	P	13	28818.60	2.50	48542.70	83441.80	1.684

Numero del nucleo n. 122

Nodi: -177 -5006 -202 -5005 -227 -252 -277 -5004 -5003 -301 -5002 -325

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
20.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-95091.10	-1928.24	-3353.85	-2052580.00	-69964.80	-122316.00	21.585
2	P	17	SLU	-53417.90	-815.47	2885.49	-1220150.00	-33573.40	121239.00	22.842
3	P	17	SLU	-51745.50	-402.32	764.13	-1220150.00	-38310.20	73398.30	23.580
4	P	17	SLU	-86057.20	-390.23	-5842.07	-2052580.00	-38551.10	-563213.00	23.851
5	P	17	SLU	-48608.50	-80.92	-1910.50	-1220150.00	-12010.60	-284653.00	25.102
6	P	17	SLU	-47159.90	-18.23	-2561.22	-1220150.00	-4152.29	-322287.00	25.873
7	P	17	SLU	-78994.80	-44.78	-6819.96	-2052580.00	-10432.20	-849274.00	25.984
8	P	17	SLU	-44772.20	42.15	-2995.15	-1220150.00	2026.60	-329443.00	27.253
9	P	17	SLU	-43853.10	58.55	-2893.15	-1220150.00	4136.44	-322584.00	27.824
10	P	17	SLU	-73691.70	77.11	-5876.30	-2052580.00	4446.18	-881264.00	27.854
11	P	17	SLU	-42420.50	80.25	-2171.68	-1220150.00	9041.25	-302055.00	28.763
12	P	17	SLU	-41758.20	83.85	-1508.89	-1220150.00	14085.40	-271482.00	29.220
13	P	17	SLU	-69586.40	110.14	-3647.33	-2052580.00	21623.80	-753505.00	29.497
14	P	17	SLU	-40151.90	17.55	390.81	-1220150.00	11106.20	272668.00	30.389
15	P	17	SLU	-39590.50	-150.26	1411.82	-1220150.00	-21699.20	213136.00	30.819

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	13	SND	288034.00	-5347.92	-289175.00	288034.00	-5942.22	-392892.00	1.359
2	P	13	SND	218977.00	-2268.13	88754.70	218977.00	-1401.70	77724.20	1.099
3	P	13	SND	212484.00	928.22	83450.30	212484.00	1423.04	80230.70	1.069
4	P	13	SND	264917.00	-1992.79	-248331.00	264917.00	-6001.77	-405747.00	1.634
5	P	13	SND	198062.00	753.17	73603.00	198062.00	1469.48	85905.10	1.133
6	P	13	SND	190306.00	715.86	69086.80	190306.00	1493.33	88976.20	1.228
7	P	13	SND	237508.00	-1203.34	-208070.00	237508.00	-6098.24	-420738.00	2.022
8	P	13	SND	173898.00	654.31	60841.70	173898.00	1534.75	95472.70	1.448
9	P	13	SND	165289.00	621.14	56929.10	165289.00	1562.53	98887.60	1.578
10	P	13	SND	207433.00	-769.22	-167519.00	207433.00	-3899.61	-455439.00	2.719
11	P	13	SND	147485.00	541.97	49692.90	147485.00	1611.98	106036.00	1.884
12	P	13	SND	138380.00	487.99	46411.60	138380.00	1632.81	109723.00	2.063
13	P	13	SND	-284062.00	-489.90	114112.00	-884230.00	2357.67	682411.00	3.113
14	P	13	SND	119878.00	279.60	40741.70	119878.00	1668.81	117047.00	2.464
15	P	13	SND	110188.00	62.61	37570.60	110188.00	1169.09	122658.00	2.771

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1P	18	SLE R		-69558.80	-1414.62	-2646.45	13.28	163.50
1P	20	SLE Q		-64517.20	-1297.71	-3030.88	12.42	153.43
2P	18	SLE R		-38969.30	-598.17	2109.84	10.84	137.54
2P	20	SLE Q		-35845.90	-549.59	1699.75	9.83	124.55
3P	18	SLE R		-37759.60	-295.26	551.07	9.52	129.57
3P	20	SLE Q		-34687.20	-272.17	271.95	8.94	121.66
4P	18	SLE R		-62927.40	-286.77	-4387.76	9.02	127.51
4P	20	SLE Q		-58204.00	-264.80	-4605.41	8.49	120.00
5P	18	SLE R		-35482.90	-59.65	-1412.75	9.19	132.85
5P	20	SLE Q		-32534.70	-55.81	-1504.87	8.60	124.18
6P	18	SLE R		-34426.90	-13.75	-1888.95	9.07	132.54
6P	20	SLE Q		-31547.00	-13.36	-1924.95	8.47	123.64
7P	18	SLE R		-57722.10	-33.49	-5048.99	7.73	114.38
7P	20	SLE Q		-53245.80	-31.55	-5099.93	7.25	107.20
8P	18	SLE R		-32679.20	30.38	-2204.25	9.04	131.17
8P	20	SLE Q		-29924.70	27.73	-2179.34	8.40	121.88
9P	18	SLE R		-32003.70	42.34	-2129.06	8.90	128.72
9P	20	SLE Q		-29302.80	38.94	-2092.51	8.26	119.44
10P	18	SLE R		-53790.10	56.07	-4321.86	7.19	105.84
10P	20	SLE Q		-49489.30	51.71	-4274.54	6.70	98.51
11P	18	SLE R		-30950.40	58.19	-1607.15	8.35	120.31
11P	20	SLE Q		-28345.70	53.82	-1579.26	7.74	111.39
12P	18	SLE R		-30467.40	60.98	-1131.86	7.88	113.63
12P	20	SLE Q		-27914.20	56.42	-1126.74	7.30	105.13
13P	18	SLE R		-50731.10	81.97	-2655.62	6.52	95.26
13P	20	SLE Q		-46563.70	76.26	-2550.86	6.01	87.89
14P	18	SLE R		-29307.80	14.66	225.31	6.28	92.74
14P	20	SLE Q		-26889.10	12.91	154.74	5.80	85.64
15T	18	SLE R		-28717.10	-353.60	1923.74	7.69	100.23
15T	20	SLE Q		-26357.70	-334.22	1792.82	7.13	92.67

Definizione Pareti

Liv. 1 Par. 1 dal nodo -177 al nodo -325
 Liv. 2 Par. 1/1 dal nodo -29699 al nodo -29713
 Par. 1/2 dal nodo -29727 al nodo -29655
 Liv. 3 Par. 1/1 dal nodo -29700 al nodo -29714
 Par. 1/2 dal nodo -29728 al nodo -29656
 Liv. 4 Par. 1 dal nodo -24296 al nodo -29657
 Liv. 5 Par. 1/1 dal nodo -29702 al nodo -29716
 Par. 1/2 dal nodo -29730 al nodo -29658
 Liv. 6 Par. 1/1 dal nodo -29703 al nodo -29717
 Par. 1/2 dal nodo -29731 al nodo -29659
 Liv. 7 Par. 1 dal nodo -24293 al nodo -29660
 Liv. 8 Par. 1/1 dal nodo -29705 al nodo -29719
 Par. 1/2 dal nodo -29733 al nodo -29661
 Liv. 9 Par. 1/1 dal nodo -29706 al nodo -29720
 Par. 1/2 dal nodo -29734 al nodo -29662
 Liv. 10 Par. 1 dal nodo -24290 al nodo -29663
 Liv. 11 Par. 1/1 dal nodo -29708 al nodo -29722
 Par. 1/2 dal nodo -29736 al nodo -29664
 Liv. 12 Par. 1/1 dal nodo -29709 al nodo -29723
 Par. 1/2 dal nodo -29737 al nodo -29665
 Liv. 13 Par. 1 dal nodo -24287 al nodo -29666
 Liv. 14 Par. 1/1 dal nodo -29711 al nodo -29725
 Par. 1/2 dal nodo -29739 al nodo -29667
 Liv. 15 Par. 1/1 dal nodo -29712 al nodo -29726
 Par. 1/2 dal nodo -29740 al nodo -29668

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	Par.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		5	89279.60	1.90	160952.00	160952.00	1.803
2P	1/1		5	9692.76	1.90	12440.10	12440.10	1.283
2P	1/2		5	44096.40	1.90	82677.60	82677.60	1.875
3P	1/1		5	9835.75	1.90	12440.10	12440.10	1.265
3P	1/2		5	46594.60	1.90	82677.60	82677.60	1.774
4P	1		5	92333.70	1.90	160952.00	160952.00	1.743
5P	1/1		5	9227.40	1.90	12440.10	12440.10	1.348
5P	1/2		5	58851.30	1.90	82677.60	82677.60	1.405
6P	1/1		1	8674.31	1.90	12440.10	12440.10	1.434
6P	1/2		1	60608.60	1.90	82677.60	82677.60	1.364
7P	1		5	92700.50	1.90	160952.00	160952.00	1.736
8P	1/1		1	8405.11	1.90	12440.10	12440.10	1.480
8P	1/2		1	61958.60	1.90	82677.60	82677.60	1.334
9P	1/1		1	8347.59	1.90	12440.10	12440.10	1.490
9P	1/2		1	62228.90	1.90	82677.60	82677.60	1.329

Relazione di calcolo

10	P	1	5	92755.60	1.90	160952.00	160952.00	1.735
11	P	1/1	1	8249.82	1.90	12440.10	12440.10	1.508
11	P	1/2	1	62411.90	1.90	82677.60	82677.60	1.325
12	P	1/1	1	8128.20	1.90	12440.10	12440.10	1.530
12	P	1/2	1	62396.60	1.90	82677.60	82677.60	1.325
13	P	1	5	91736.80	1.90	160952.00	160952.00	1.754
14	P	1/1	1	6557.38	1.90	12440.10	12440.10	1.897
14	P	1/2	1	61496.00	1.90	82677.60	82677.60	1.344
15	P	1/1	1	6086.60	1.90	12440.10	12440.10	2.044
15	P	1/2	1	59551.10	1.90	82677.60	82677.60	1.388

Numero del nucleo n. 123

Nodi: -325 -326 -4929 -327 -4772 -4773 -4774 -328 -4653 -329 -4461 -4462 -4463 -4464 -330 -4326 -331 -332

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-128108.00	-1928.95	62427.50	-3461200.00	-47661.00	1814040.00	27.018
2	P	17	SLU	-128544.00	-903.97	56346.20	-3461200.00	-23038.10	2005680.00	26.926
3	P	17	SLU	-128736.00	-266.41	50909.60	-3461200.00	6999.14	2082340.00	26.886
4	P	17	SLU	-128820.00	69.43	46114.50	-3461200.00	14450.50	2051900.00	26.869
5	P	17	SLU	-128884.00	222.08	41832.50	-3461200.00	23038.10	2005800.00	26.855
6	P	17	SLU	-128985.00	273.15	38027.60	-3461200.00	23038.20	2005840.00	26.834
7	P	17	SLU	-129117.00	268.38	34674.00	-3461200.00	23038.20	2005880.00	26.807
8	P	17	SLU	-129306.00	234.95	31731.60	-3461200.00	23038.20	2005950.00	26.767
9	P	17	SLU	-129506.00	181.09	29168.60	-3461200.00	23038.30	2006020.00	26.726
10	P	17	SLU	-129743.00	105.74	26945.40	-3461200.00	23038.30	2006100.00	26.677
11	P	17	SLU	-129964.00	-7.81	24997.10	-3461200.00	14451.50	2052290.00	26.632
12	P	17	SLU	-130197.00	-186.18	23256.70	-3461200.00	1448.07	2100500.00	26.584
13	P	17	SLU	-130409.00	-478.89	21668.10	-3461200.00	-47664.60	1814690.00	26.541
14	P	17	SLU	-130676.00	-962.55	20124.30	-3461200.00	-72984.60	1551940.00	26.487
15	P	17	SLU	-130716.00	-1873.05	19150.30	-3461200.00	-109183.00	1107860.00	26.479
16	P	17	SLU	-93826.10	2973.49	-2821.34	-3461200.00	154189.00	-147408.00	36.889

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	9	SND	366488.00	12435.40	894151.00	366488.00	12676.60	943593.00	1.055
2	P	9	SND	353768.00	9189.53	856144.00	353768.00	12743.60	954242.00	1.115
3	P	9	SND	339040.00	7237.57	817675.00	339040.00	12827.40	966505.00	1.182
4	P	9	SND	323151.00	6074.03	779596.00	323151.00	12915.10	979689.00	1.257
5	P	9	SND	306323.00	5332.92	741963.00	306323.00	13004.40	993415.00	1.339
6	P	9	SND	288831.00	4808.39	704638.00	288831.00	13089.90	1007810.00	1.430
7	P	9	SND	270905.00	4392.86	668031.00	270905.00	13182.30	1022470.00	1.531
8	P	9	SND	252650.00	4011.63	631990.00	252650.00	13276.80	1037460.00	1.642
9	P	9	SND	234264.00	3609.32	596261.00	234264.00	13369.60	1052420.00	1.765
10	P	9	SND	215902.00	3133.85	561200.00	215902.00	13468.60	1067270.00	1.902
11	P	9	SND	197590.00	2525.67	526648.00	197590.00	13571.10	1082220.00	2.055
12	P	13	SND	184495.00	1818.31	481954.00	184495.00	13641.10	1092700.00	2.267
13	P	9	SND	161518.00	688.97	458701.00	161518.00	8724.48	1153050.00	2.514
14	P	9	SND	143797.00	187.85	425621.00	143797.00	8780.61	1167610.00	2.743
15	T	9	SND	127655.00	-7442.63	344815.00	127655.00	-28296.60	1026480.00	2.977
16	P	1	SND	128105.00	9728.61	-378891.00	128105.00	28289.60	-1026120.00	2.708

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-93260.40	-1432.51	45503.00	12.77	178.11
1	P	20	SLE Q	-83991.10	-1116.42	43239.30	11.49	161.57
2	P	18	SLE R	-93537.70	-673.37	41037.20	11.23	161.32
2	P	20	SLE Q	-84331.50	-493.00	38979.00	10.17	146.97
3	P	18	SLE R	-93636.50	-200.66	37041.20	10.14	148.98
3	P	20	SLE Q	-84516.10	-106.99	35152.20	9.23	136.13
4	P	18	SLE R	-93659.10	48.75	33511.60	9.56	141.55
4	P	20	SLE Q	-84625.70	93.49	31763.30	8.86	130.84
5	P	18	SLE R	-93670.20	162.43	30353.90	9.39	138.22
5	P	20	SLE Q	-84719.00	181.18	28723.90	8.67	127.42
6	P	18	SLE R	-93710.70	200.70	27541.80	9.15	134.44
6	P	20	SLE Q	-84833.40	206.58	26008.80	8.43	123.69
7	P	18	SLE R	-93775.80	197.49	25056.70	8.89	130.64
7	P	20	SLE Q	-84965.40	197.93	23600.60	8.17	120.00

Relazione di calcolo

8	P	18	SLE R	-93884.70	173.05	22869.50	8.63	127.05
8	P	20	SLE Q	-85133.50	171.89	21471.60	7.92	116.54
9	P	18	SLE R	-94002.30	133.79	20957.40	8.38	123.70
9	P	20	SLE Q	-85304.90	133.18	19599.70	7.68	113.31
10	P	18	SLE R	-94147.40	79.30	19292.40	8.13	120.55
10	P	20	SLE Q	-85497.30	80.63	17960.00	7.44	110.27
11	P	18	SLE R	-94282.20	-2.09	17827.70	7.88	117.40
11	P	20	SLE Q	-85674.90	2.95	16508.80	7.19	107.17
12	P	18	SLE R	-94426.00	-129.18	16515.10	7.93	117.21
12	P	20	SLE Q	-85854.80	-117.74	15202.90	7.23	106.86
13	P	18	SLE R	-94555.30	-337.04	15314.50	8.11	118.25
13	P	20	SLE Q	-86013.30	-314.20	14007.50	7.39	107.79
14	P	18	SLE R	-94725.30	-680.05	14148.80	8.48	121.19
14	P	20	SLE Q	-86197.20	-637.30	12857.60	7.74	110.50
15	T	18	SLE R	-94203.90	-2440.07	13635.00	10.90	143.31
15	T	20	SLE Q	-85682.20	-2279.54	12248.20	9.98	130.91
16	P	18	SLE R	-68707.80	2085.11	-1912.69	7.54	96.24
16	P	20	SLE Q	-63333.10	1912.19	-1730.74	6.93	88.53

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	206063.00	2.18	278825.00	278825.00	1.353
2	P	9	210582.00	2.18	278825.00	278825.00	1.324
3	P	9	212415.00	2.18	278825.00	278825.00	1.313
4	P	9	213168.00	2.18	278825.00	278825.00	1.308
5	P	9	213524.00	2.18	278825.00	278825.00	1.306
6	P	9	213714.00	2.18	278825.00	278825.00	1.305
7	P	9	213806.00	2.18	278825.00	278825.00	1.304
8	P	9	213828.00	2.18	278825.00	278825.00	1.304
9	P	9	213780.00	2.18	278825.00	278825.00	1.304
10	P	9	213663.00	2.18	278825.00	278825.00	1.305
11	P	9	213445.00	2.18	278825.00	278825.00	1.306
12	P	9	213076.00	2.18	278825.00	278825.00	1.309
13	P	9	212364.00	2.18	278825.00	278825.00	1.313
14	P	1	211000.00	2.18	278825.00	278825.00	1.321
15	P	1	208346.00	2.18	278825.00	278825.00	1.338

Numero del nucleo n. 124

Nodi: -206 -4510 -231 -256 -281 -4489 -4488 -305 -4479 -329

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
20.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-38182.30	224.77	-13628.20	-38182.30	6625.40	-603702.00	44.294
2	P	17	SLU	-36746.50	135.78	-9093.60	-1453950.00	3271.51	-419681.00	39.567
3	P	17	SLU	-37711.20	111.53	-6975.09	-1453950.00	3270.30	-419888.00	38.555
4	P	17	SLU	-42393.50	113.95	-6551.26	-1725040.00	6619.94	-604457.00	40.691
5	P	17	SLU	-39089.20	88.23	-3750.70	-1453950.00	6822.64	-406815.00	37.196
6	P	17	SLU	-39469.20	82.14	-2593.73	-1453950.00	10946.00	-386000.00	36.838
7	P	17	SLU	-45048.00	88.98	-1985.22	-1725040.00	21608.60	-498836.00	38.293
8	P	17	SLU	-39722.10	73.20	-952.75	-1453950.00	23320.10	-301017.00	36.603
9	P	17	SLU	-39651.20	68.55	-392.05	-1453950.00	35252.40	-198072.00	36.669
10	P	17	SLU	-45613.80	68.87	328.45	-1725040.00	47418.60	233439.00	37.818
11	P	17	SLU	-39257.70	54.47	344.23	-1453950.00	34975.60	212790.00	37.036
12	P	17	SLU	-38982.70	42.20	547.29	-1453950.00	23051.60	315340.00	37.297
13	P	17	SLU	-44942.10	29.71	1135.62	-1725040.00	10633.50	582662.00	38.384
14	P	17	SLU	-38336.10	-2.15	611.87	-1453950.00	2150.30	444544.00	37.926
15	P	17	SLU	-37968.40	-37.10	443.35	-1453960.00	-25786.00	292663.00	38.294

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	247366.00	-2914.76	-188768.00	247366.00	-6055.93	-270690.00	1.434
2	P	5	SND	285748.00	-1761.71	-111107.00	285748.00	-2304.14	-135168.00	1.190
3	P	5	SND	273445.00	-1426.51	-103391.00	273445.00	-2331.45	-140444.00	1.313
4	P	13	SND	218570.00	-1376.66	-154364.00	218570.00	-3945.06	-298316.00	1.933
5	P	13	SND	216262.00	-1067.56	-98614.80	216262.00	-2479.56	-165138.00	1.603
6	P	13	SND	203909.00	-946.79	-91894.00	203909.00	-2515.15	-170479.00	1.763
7	P	5	SND	210537.00	1090.10	121736.00	210537.00	3957.82	302071.00	2.481
8	P	13	SND	178972.00	-767.07	-79558.40	178972.00	-2597.64	-181232.00	2.139
9	P	13	SND	166565.00	-689.45	-73761.20	166565.00	-2616.97	-186484.00	2.361

Relazione di calcolo

10	P	13	SND	-232432.00	-715.81	91256.20	-733715.00	-0.00	523688.00	3.157
11	P	13	SND	142226.00	-519.41	-62565.90	142226.00	-2642.54	-196804.00	2.910
12	P	13	SND	-201819.00	-412.90	52703.00	-639649.00	-0.00	353258.00	3.169
13	P	13	SND	-192283.00	-398.02	71255.00	-733715.00	1043.45	500199.00	3.816
14	P	13	SND	-174532.00	-176.20	43401.50	-639649.00	1023.33	342713.00	3.665
15	P	13	SND	-161240.00	-319.48	38788.40	-639655.00	-0.00	366620.00	3.967

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm ² >	σ _f <daN/cm ² >
1	P	18	SLE R	-27883.90	169.77	-10090.10	8.17	114.61
1	P	20	SLE Q	-27159.00	180.84	-10017.10	8.10	113.26
2	P	18	SLE R	-26855.50	102.41	-6742.63	7.73	109.65
2	P	20	SLE Q	-26191.60	109.49	-6664.74	7.63	107.97
3	P	18	SLE R	-27560.60	83.49	-5178.70	6.93	99.05
3	P	20	SLE Q	-26732.30	87.12	-5224.03	6.85	97.78
4	P	18	SLE R	-30954.10	84.32	-4878.39	6.22	89.40
4	P	20	SLE Q	-29675.10	84.45	-5164.86	6.16	88.46
5	P	18	SLE R	-28563.60	64.93	-2800.14	5.76	83.19
5	P	20	SLE Q	-27431.00	64.03	-3004.27	5.70	82.24
6	P	18	SLE R	-28836.90	59.98	-1947.49	5.33	77.38
6	P	20	SLE Q	-27571.70	57.75	-2192.89	5.27	76.40
7	P	18	SLE R	-32880.30	64.47	-1519.04	5.12	74.40
7	P	20	SLE Q	-31131.20	60.64	-1939.39	5.03	73.12
8	P	18	SLE R	-29010.20	52.73	-737.98	4.72	68.94
8	P	20	SLE Q	-27513.90	49.02	-1014.31	4.62	67.39
9	P	18	SLE R	-28952.00	49.07	-323.76	4.92	71.86
9	P	20	SLE Q	-27353.70	45.03	-596.69	4.48	65.59
10	P	18	SLE R	-33278.30	48.99	191.06	4.60	67.50
10	P	20	SLE Q	-31193.40	44.44	-202.75	4.32	63.35
11	P	18	SLE R	-28650.10	38.39	223.57	5.11	74.91
11	P	20	SLE Q	-26868.10	34.23	-14.92	4.66	68.45
12	P	18	SLE R	-28440.80	29.31	377.10	5.12	75.22
12	P	20	SLE Q	-26575.10	25.33	167.87	4.67	68.78
13	P	18	SLE R	-32766.90	20.03	803.09	4.64	68.83
13	P	20	SLE Q	-30440.50	16.16	539.69	4.23	62.75
14	P	18	SLE R	-27948.70	-3.04	436.06	4.93	73.40
14	P	20	SLE Q	-25931.10	-6.11	310.18	4.54	67.51
15	T	18	SLE R	-27462.70	-57.70	170.65	4.98	72.30
15	T	20	SLE Q	-25378.80	-58.89	219.09	4.66	67.51

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	81389.70	1.90	132997.00	132997.00	1.634
2	P	13	74968.70	1.90	115525.00	115525.00	1.541
3	P	13	75960.30	1.90	115525.00	115525.00	1.521
4	P	13	88830.10	1.90	132997.00	132997.00	1.497
5	P	13	76270.30	1.90	115525.00	115525.00	1.515
6	P	13	76025.70	1.90	115525.00	115525.00	1.520
7	P	13	89996.20	1.90	132997.00	132997.00	1.478
8	P	13	75245.50	1.90	115525.00	115525.00	1.535
9	P	13	74712.20	1.90	115525.00	115525.00	1.546
10	P	13	88785.10	1.90	132997.00	132997.00	1.498
11	P	13	73168.40	1.90	115525.00	115525.00	1.579
12	P	13	72059.50	1.90	115525.00	115525.00	1.603
13	P	13	84885.80	1.90	132997.00	132997.00	1.567
14	P	13	69073.70	1.90	115525.00	115525.00	1.672
15	P	5	67895.30	1.90	115525.00	115525.00	1.702

Numero del nucleo n. 125

Nodi: -409 -3185 -410 -3098 -411 -3011 -412

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-105535.00	-1378.71	-1884.29	-690454.00	-22709.60	-30636.40	6.542
2	P	17	SLU	-105319.00	-913.61	-1610.40	-690454.00	-21506.60	-37600.60	6.556
3	P	17	SLU	-105102.00	-448.50	-1336.51	-690454.00	-17990.40	-54262.90	6.569
4	P	17	SLU	-104885.00	16.61	-1062.62	-690454.00	767.68	-100842.00	6.583
5	P	17	SLU	-104669.00	481.71	-788.73	-690454.00	21791.80	-35816.80	6.597

Relazione di calcolo

6	P	17	SLU	-104452.00	946.83	-514.84	-690454.00	24213.80	-13314.60	6.610
7	P	17	SLU	-104236.00	1411.93	-240.96	-690454.00	24452.40	-3996.20	6.624
8	P	17	SLU	-104019.00	1877.03	32.93	-690454.00	24347.80	606.70	6.638
9	P	17	SLU	-103802.00	2342.15	306.88	-690454.00	24363.00	3178.15	6.652
10	P	17	SLU	-103586.00	2807.25	580.76	-690454.00	24398.20	5039.88	6.666
11	P	17	SLU	-103369.00	3272.35	854.65	-690454.00	24328.30	6334.90	6.679
12	P	17	SLU	-103153.00	3737.48	1128.54	-103153.00	24334.80	7398.93	6.515
13	P	17	SLU	-102936.00	4202.58	1402.42	-102936.00	24306.00	8080.90	5.781
14	P	17	SLU	-102720.00	4667.68	1676.31	-102720.00	24235.30	8663.53	5.189
15	T	17	SLU	-102286.00	5597.90	2224.09	-102286.00	24200.50	9823.24	4.336
16	P	17	SLU	-73333.20	-10337.00	-872.73	-73333.20	-21736.20	-1674.19	2.102

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	1	SND	-56831.10	-5439.82	-48064.50	-56831.10	-6538.07	-53768.60	1.120
2	P	5	SND	-56228.90	-5034.59	-44335.50	-56228.90	-6525.14	-53616.00	1.210
3	P	1	SND	-56497.90	-4085.83	-42127.70	-56497.90	-5412.10	-55945.60	1.328
4	P	5	SND	-55895.70	-3630.47	-38489.30	-55895.70	-5403.32	-55784.00	1.450
5	P	13	SND	-50540.40	3668.62	34332.00	-50540.40	5844.56	53315.10	1.553
6	P	13	SND	-50373.80	3518.11	31780.50	-50373.80	5840.88	53261.50	1.676
7	P	13	SND	-50207.20	3367.84	29231.40	-50207.20	6403.96	52029.30	1.782
8	P	13	SND	-50040.60	3217.95	26685.40	-50040.60	6399.93	51976.20	1.948
9	P	9	SND	-50309.60	2972.66	24596.00	-50309.60	6405.69	52055.80	2.117
10	P	13	SND	-49707.40	2920.93	21607.10	-49707.40	7087.04	50475.10	2.338
11	P	9	SND	-49976.40	2730.64	19445.00	-49976.40	7091.48	50526.70	2.598
12	P	9	SND	-49809.80	2627.55	16886.00	-49809.80	7862.44	48829.90	2.894
13	P	9	SND	-49643.20	2724.94	14347.00	-49643.20	8766.04	46731.30	3.256
14	P	9	SND	-49476.60	3222.27	11842.10	-49476.60	11213.30	41079.10	3.470
15	T	5	SND	-53896.50	4813.48	6368.73	-53896.50	16013.50	21501.90	3.358
16	P	5	SND	-36814.80	-9995.05	-14191.50	-36814.80	-14127.50	-19967.50	1.409

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-75688.30	-943.83	-1340.40	30.51	424.74
1	P	20	SLE Q	-69663.90	-732.48	-1353.45	27.38	384.51
2	P	18	SLE R	-75521.70	-620.48	-1148.13	28.03	398.31
2	P	20	SLE Q	-69497.30	-456.85	-1169.64	25.22	361.43
3	P	18	SLE R	-75355.10	-297.13	-955.87	25.55	371.87
3	P	20	SLE Q	-69330.70	-181.22	-985.83	23.06	338.35
4	P	18	SLE R	-75188.50	26.21	-763.60	23.41	348.91
4	P	20	SLE Q	-69164.10	94.40	-802.01	22.15	327.81
5	P	18	SLE R	-75021.90	349.55	-571.34	25.19	365.44
5	P	20	SLE Q	-68997.50	370.03	-618.21	23.63	341.36
6	P	18	SLE R	-74855.30	672.90	-379.07	26.96	381.97
6	P	20	SLE Q	-68830.90	645.66	-434.39	25.11	354.90
7	P	18	SLE R	-74688.70	996.25	-186.81	28.74	398.50
7	P	20	SLE Q	-68664.30	921.29	-250.59	26.58	368.45
8	P	18	SLE R	-74522.10	1319.59	5.45	30.54	415.27
8	P	20	SLE Q	-68497.70	1196.91	-66.78	28.06	381.99
9	P	18	SLE R	-74355.50	1642.94	197.76	32.92	440.24
9	P	20	SLE Q	-68331.10	1472.55	117.08	29.91	400.68
10	P	18	SLE R	-74188.90	1966.28	390.02	35.31	465.21
10	P	20	SLE Q	-68164.50	1748.17	300.88	31.97	422.29
11	P	18	SLE R	-74022.30	2289.62	582.28	37.70	490.19
11	P	20	SLE Q	-67997.90	2023.79	484.69	34.03	443.91
12	P	18	SLE R	-73855.70	2612.97	774.55	40.08	515.16
12	P	20	SLE Q	-67831.30	2299.43	668.50	36.09	465.53
13	P	18	SLE R	-73689.10	2936.32	966.81	42.47	540.13
13	P	20	SLE Q	-67664.70	2575.05	852.31	38.14	487.14
14	P	18	SLE R	-73522.50	3259.66	1159.08	44.88	565.33
14	P	20	SLE Q	-67498.10	2850.68	1036.11	40.20	508.78
15	T	18	SLE R	-73189.30	3906.35	1543.61	50.18	620.30
15	T	20	SLE Q	-67164.90	3401.94	1403.73	44.62	554.98
16	P	18	SLE R	-52938.10	-7217.90	-563.26	79.09	791.91
16	P	20	SLE Q	-48826.20	-6363.50	-439.60	69.68	696.62

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	12282.80	2.50	31244.30	85778.60	2.544
2	P	1	12282.80	2.50	31244.30	85753.70	2.544
3	P	1	12282.80	2.50	31244.30	85728.80	2.544
4	P	1	12282.80	2.50	31244.30	85703.90	2.544
5	P	1	12282.80	2.50	31244.30	85679.00	2.544
6	P	1	12282.80	2.50	31244.30	85654.10	2.544
7	P	1	12282.80	2.50	31244.30	85629.20	2.544

Relazione di calcolo

8P	1	12282.80	2.50	31244.30	85604.30	2.544
9P	1	12282.80	2.50	31244.30	85579.40	2.544
10P	1	12282.80	2.50	31244.30	85554.60	2.544
11P	1	12282.80	2.50	31244.30	85529.70	2.544
12P	1	12282.80	2.50	31244.30	85504.80	2.544
13P	1	12282.80	2.50	31244.30	85479.90	2.544
14P	1	12282.80	2.50	31244.30	85455.00	2.544
15P	1	12282.80	2.50	31244.30	85430.10	2.544

Numero del nucleo n. 127

Nodi: -5728 -5729 -5730 -128 -5240 -5241 -5242 -5243 -5244 -129 -130

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-85438.80	242.11	-38196.00	-85438.80	-1164.37	-703891.00	18.428
2P	17	SLU		-84808.60	188.37	-33456.60	-84808.60	-1162.26	-703690.00	21.033
3P	17	SLU		-84178.40	134.63	-28717.10	-1953710.00	-2442.08	-701289.00	23.209
4P	17	SLU		-83548.10	80.88	-23977.70	-1953710.00	-2440.48	-701084.00	23.384
5P	17	SLU		-82917.90	27.14	-19238.20	-1953710.00	-3913.49	-697699.00	23.562
6P	17	SLU		-82287.70	-26.61	-14498.90	-1953710.00	-5674.27	-693429.00	23.742
7P	17	SLU		-81657.40	-80.35	-9759.42	-1953710.00	-8089.52	-686510.00	23.926
8P	17	SLU		-81027.20	-134.09	-5020.08	-1953710.00	-18693.50	-644630.00	24.112
9P	17	SLU		-80397.00	-187.84	-280.61	-1953710.00	-76257.10	-115071.00	24.301
10P	17	SLU		-79766.80	-241.58	4458.73	-1953710.00	-29754.70	582722.00	24.493
11P	17	SLU		-79136.50	-295.33	9198.20	-1953710.00	-18690.70	644075.00	24.688
12P	17	SLU		-56931.00	389.99	292.73	-1953710.00	75079.80	56033.60	34.317

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	9	SND		-30115.20	-7095.65	-417289.00	-30115.20	-7474.00	-417028.00	1.099
2P	9	SND		-29630.40	-6111.44	-387795.00	-29630.40	-7472.00	-416757.00	1.075
3P	9	SND		-29145.60	-5127.54	-358317.00	-29145.60	-7469.98	-416483.00	1.162
4P	9	SND		-28660.80	-4144.16	-328859.00	-28660.80	-7467.96	-416210.00	1.266
5P	9	SND		-28176.00	-3161.82	-299428.00	-28176.00	-7465.92	-415936.00	1.389
6P	9	SND		-27691.20	-2182.04	-270030.00	-27691.20	-5183.10	-427208.00	1.582
7P	9	SND		-27206.40	-1211.68	-240676.00	-27206.40	-5182.87	-426989.00	1.774
8P	9	SND		-26721.60	-394.75	-211385.00	-26721.60	-3669.55	-434383.00	2.055
9P	9	SND		-26236.80	-1129.66	-182180.00	-26236.80	-5179.76	-426421.00	2.341
10P	1	SND		-23350.80	1835.58	158118.00	-23350.80	7445.22	413321.00	2.614
11P	5	SND		-23431.10	2971.42	133714.00	-23431.10	11734.30	392655.00	2.937
12P	1	SND		-15457.00	8782.30	135257.00	-15457.00	22776.60	336218.00	2.486

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1P	18	SLE	R	-61863.40	187.78	-28279.70	15.18	220.19
1P	20	SLE	Q	-57117.30	171.57	-26253.40	14.06	203.88
2P	18	SLE	R	-61378.60	147.40	-24799.00	13.99	203.61
2P	20	SLE	Q	-56632.50	135.07	-23057.90	12.96	188.57
3P	18	SLE	R	-60893.80	107.02	-21318.20	12.86	187.88
3P	20	SLE	Q	-56147.70	98.57	-19862.40	11.92	174.06
4P	18	SLE	R	-60409.10	66.64	-17837.50	11.74	172.22
4P	20	SLE	Q	-55663.00	62.08	-16666.90	10.88	159.62
5P	18	SLE	R	-59924.30	26.26	-14356.70	10.62	156.55
5P	20	SLE	Q	-55178.20	25.58	-13471.40	9.85	145.19
6P	18	SLE	R	-59439.50	-14.13	-10876.00	9.57	141.55
6P	20	SLE	Q	-54693.40	-10.92	-10276.00	8.88	131.27
7P	18	SLE	R	-58954.70	-54.51	-7395.26	8.65	127.76
7P	20	SLE	Q	-54208.60	-47.42	-7080.46	8.03	118.54
8P	18	SLE	R	-58469.90	-94.89	-3914.59	7.73	113.98
8P	20	SLE	Q	-53723.80	-83.91	-3885.05	7.18	105.80
9P	18	SLE	R	-57985.10	-135.27	-433.81	6.81	100.19
9P	20	SLE	Q	-53239.00	-120.41	-689.54	6.32	93.07
10P	18	SLE	R	-57500.30	-175.66	3046.85	7.58	110.79
10P	20	SLE	Q	-52754.20	-156.91	2505.87	6.87	100.39
11T	18	SLE	R	-56530.70	-256.42	10008.30	9.61	138.92
11T	20	SLE	Q	-51784.60	-229.90	8896.79	8.72	126.06
12P	18	SLE	R	-41334.40	278.98	287.31	5.30	75.57
12P	20	SLE	Q	-38117.50	253.68	468.00	4.94	70.42

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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}	W _k <mm>
1	P	20	SLE Q	-57117.30	171.57	-26253.40	35.00	156.00	0.50	24.00	103.49	4.52	63.12	17.02	0.00	0.00
1	P	19	SLE F	-58315.40	176.80	-26667.20	35.00	156.00	0.50	24.00	101.72	4.52	59.79	16.75	0.00	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	89570.40	2.50	106041.00	172460.00	1.184
2	P	9	89570.40	2.50	106041.00	172386.00	1.184
3	P	9	89570.40	2.50	106041.00	172312.00	1.184
4	P	9	89570.40	2.50	106041.00	172239.00	1.184
5	P	9	89570.40	2.50	106041.00	172165.00	1.184
6	P	9	89570.40	2.50	106041.00	172091.00	1.184
7	P	9	89570.40	2.50	106041.00	172017.00	1.184
8	P	9	89570.40	2.50	106041.00	171944.00	1.184
9	P	9	89570.40	2.50	106041.00	171870.00	1.184
10	P	9	89570.40	2.50	106041.00	171796.00	1.184
11	P	9	89570.40	2.50	106041.00	171723.00	1.184

Numero del nucleo n. 128

Nodi: -123 -6135 -124 -125 -6012 -126

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-116637.00	-638.63	-5016.36	-643249.00	-9192.67	-73467.60	5.515
2	P	17	SLU	-116342.00	-481.42	-4165.94	-643249.00	-8295.40	-75968.90	5.529
3	P	17	SLU	-116047.00	-324.20	-3315.53	-643249.00	-7503.98	-78077.80	5.543
4	P	17	SLU	-115751.00	-166.99	-2465.13	-643249.00	-5651.94	-82446.50	5.557
5	P	17	SLU	-115456.00	-9.77	-1614.73	-643249.00	-684.79	-89730.90	5.571
6	P	17	SLU	-115161.00	147.45	-764.34	-643249.00	12097.90	-63267.40	5.586
7	P	17	SLU	-114865.00	304.67	86.07	-643249.00	21246.70	5945.03	5.600
8	P	17	SLU	-114570.00	461.88	936.45	-643249.00	18135.00	36619.10	5.614
9	P	17	SLU	-114275.00	619.10	1786.86	-643249.00	15976.70	47233.70	5.629
10	P	17	SLU	-113979.00	776.31	2637.24	-643249.00	15071.70	51188.10	5.644
11	P	17	SLU	-113684.00	933.53	3487.66	-643249.00	14239.10	54615.50	5.658
12	P	17	SLU	-77883.10	-1771.14	-3128.70	-643249.00	-17100.70	-30222.20	8.259

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	9	SND	-72532.40	-4178.76	-53858.30	-72532.40	-4113.67	-54197.70	1.006
2	P	9	SND	-72305.20	-3601.74	-48736.50	-72305.20	-4112.71	-54141.00	1.111
3	P	9	SND	-72078.00	-3024.79	-43616.30	-72078.00	-3462.09	-55244.10	1.266
4	P	9	SND	-71850.80	-2447.96	-38498.10	-71850.80	-3461.23	-55186.80	1.433
5	P	9	SND	-71623.60	-1871.34	-33382.70	-71623.60	-3460.37	-55129.50	1.652
6	P	9	SND	-71396.40	-1295.16	-28271.60	-71396.40	-2392.59	-56801.70	2.009
7	P	9	SND	-71169.30	891.86	-23166.90	-71169.30	2391.75	-56743.90	2.450
8	P	1	SND	-71308.40	712.83	19077.00	-71308.40	2393.21	56801.70	2.978
9	P	1	SND	-71081.20	489.96	15125.00	-71081.20	1694.87	58001.80	3.834
10	P	1	SND	-70854.00	916.61	11226.10	-70854.00	4102.06	53715.20	4.783
11	T	9	SND	-70033.30	2176.11	5304.40	-70033.30	12914.80	31106.60	5.875
12	P	13	SND	-47964.00	-4555.96	-20405.70	-47964.00	-8458.90	-36710.10	1.802

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-84315.30	-447.62	-3701.06	35.40	508.50
1	P	20	SLE Q	-75124.50	-394.78	-3414.67	31.70	455.48
2	P	18	SLE R	-84088.10	-337.20	-3081.74	33.52	485.29
2	P	20	SLE Q	-74897.30	-298.17	-2855.19	30.02	434.64
3	P	18	SLE R	-83860.90	-226.78	-2462.43	31.64	462.09
3	P	20	SLE Q	-74670.10	-201.57	-2295.72	28.34	413.80
4	P	18	SLE R	-83633.70	-116.35	-1843.13	29.76	438.88
4	P	20	SLE Q	-74442.90	-104.97	-1736.25	26.66	392.96
5	P	18	SLE R	-83406.50	-5.93	-1223.82	27.88	415.68
5	P	20	SLE Q	-74215.80	-8.36	-1176.79	24.97	372.12

Relazione di calcolo

6	P	18	SLE R	-83179.30	104.49	-604.53	27.47	407.36
6	P	20	SLE Q	-73988.60	88.24	-617.33	24.54	363.85
7	P	18	SLE R	-82952.10	214.91	14.77	27.20	400.57
7	P	20	SLE Q	-73761.40	184.85	-57.86	24.22	356.78
8	P	18	SLE R	-82724.90	325.33	634.06	28.94	421.67
8	P	20	SLE Q	-73534.20	281.45	501.59	25.57	372.84
9	P	18	SLE R	-82497.70	435.75	1253.37	30.68	442.76
9	P	20	SLE Q	-73307.00	378.06	1061.06	27.11	391.57
10	P	18	SLE R	-82270.60	546.17	1872.66	32.42	463.86
10	P	20	SLE Q	-73079.80	474.66	1620.51	28.65	410.30
11	T	18	SLE R	-81816.20	767.02	3111.28	35.90	506.05
11	T	20	SLE Q	-72625.40	667.87	2739.45	31.74	447.76
12	P	18	SLE R	-56785.50	-1245.60	-2181.63	30.06	400.85
12	P	20	SLE Q	-50832.40	-1079.37	-1802.50	26.40	352.88

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	15518.80	2.50	31244.40	88124.30	2.013
2	P	9	15518.80	2.50	31244.40	88090.30	2.013
3	P	9	15518.80	2.50	31244.40	88056.40	2.013
4	P	9	15518.80	2.50	31244.40	88022.40	2.013
5	P	9	15518.80	2.50	31244.40	87988.50	2.013
6	P	9	15518.80	2.50	31244.40	87954.60	2.013
7	P	9	15518.80	2.50	31244.40	87920.60	2.013
8	P	9	15518.80	2.50	31244.40	87886.70	2.013
9	P	9	15518.80	2.50	31244.40	87852.70	2.013
10	P	9	15518.80	2.50	31244.40	87818.80	2.013
11	P	9	15518.80	2.50	31244.40	87784.90	2.013

Numero del nucleo n. 129

Nodi: -1193 -8091 -8097 -8103 -8109 -8115

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-69224.30	-1944.29	9340.00	-1260600.00	-34492.30	171844.00	18.210
2	P	17	SLU	-47882.70	-1453.16	3837.57	-965995.00	-31554.20	82626.50	20.174
3	P	17	SLU	-48983.80	-1340.02	4040.84	-965995.00	-29842.10	88788.70	19.721
4	P	17	SLU	-68485.90	-1535.28	7206.09	-1260600.00	-35673.20	166752.00	18.407
5	P	17	SLU	-49932.80	-1121.36	3500.61	-965995.00	-29047.80	91641.80	19.346
6	P	17	SLU	-50264.70	-1012.13	3124.72	-965995.00	-29052.20	91646.20	19.218
7	P	17	SLU	-67747.60	-1126.27	5072.24	-1260600.00	-36904.00	161355.00	18.607
8	P	17	SLU	-50943.50	-793.81	2380.79	-965995.00	-29867.90	88812.40	18.962
9	P	17	SLU	-51307.70	-684.68	2024.83	-965995.00	-29872.70	88816.80	18.828
10	P	17	SLU	-67009.20	-717.25	2938.43	-1260600.00	-38172.60	155572.00	18.812
11	P	17	SLU	-52056.30	-465.34	1331.23	-965995.00	-30724.10	85830.80	18.557
12	P	17	SLU	-52331.90	-353.37	933.08	-965995.00	-31613.20	82670.90	18.459
13	P	17	SLU	-66270.90	-308.24	804.64	-1260600.00	-45785.40	120479.00	19.022
14	P	17	SLU	-51405.70	-102.33	-715.23	-965995.00	-18060.90	-119760.00	18.792
15	P	17	SLU	-49139.20	105.10	-2748.89	-965995.00	5281.64	-146081.00	19.658

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	5	SND	-15399.80	-4750.88	158633.00	-15399.80	-4804.33	173808.00	1.096
2	P	13	SND	15577.40	-4521.86	-71863.10	15577.40	-4977.97	-83755.30	1.164
3	P	13	SND	9663.23	-4099.65	-66784.50	9663.23	-4994.29	-85194.40	1.274
4	P	5	SND	-14831.80	-3649.83	127346.00	-14831.80	-4804.56	173672.00	1.364
5	P	13	SND	-993.52	-3325.68	-56936.30	-993.52	-5047.25	-87726.90	1.541
6	P	13	SND	-6244.34	-2946.16	-52135.20	-6244.34	-5078.95	-88963.50	1.706
7	P	13	SND	-124.02	-3164.68	-88976.70	-124.02	-6641.63	-163738.00	1.841
8	P	13	SND	-16660.80	-2191.17	-42563.20	-16660.80	-5138.41	-91396.30	2.148
9	P	13	SND	-21735.30	-1814.90	-37787.90	-21735.30	-5167.48	-92592.80	2.451
10	P	5	SND	-13695.90	-1460.14	64981.30	-13695.90	-3344.33	178036.00	2.740
11	P	13	SND	-29280.60	-1065.23	-28253.60	-29280.60	-3625.25	-97471.20	3.450
12	P	13	SND	-26388.80	-695.78	-23464.10	-26388.80	-3620.42	-96780.50	4.126
13	P	13	SND	1011.91	-470.62	-33393.40	1011.91	-3304.50	-173969.00	5.210
14	P	13	SND	-11623.50	-284.41	-14920.90	-11623.50	-2279.20	-95936.80	6.430
15	P	13	SND	694.16	626.82	-14070.80	694.16	3551.03	-90369.60	6.410

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-50212.50	-1417.69	6883.20	20.05	262.88
1	P	20	SLE Q	-46344.50	-1343.74	6699.82	18.95	248.12
2	P	18	SLE R	-34646.00	-1059.18	2829.07	18.26	232.10
2	P	20	SLE Q	-31749.20	-1003.66	2783.95	17.20	218.01
3	P	18	SLE R	-35451.00	-976.62	2974.77	18.23	233.67
3	P	20	SLE Q	-32502.20	-925.36	2897.02	17.13	218.93
4	P	18	SLE R	-49644.50	-1118.94	5299.38	17.43	231.92
4	P	20	SLE Q	-45776.60	-1060.17	5132.52	16.39	217.70
5	P	18	SLE R	-36143.10	-816.95	2572.52	17.00	221.05
5	P	20	SLE Q	-33167.20	-773.83	2486.54	15.90	206.32
6	P	18	SLE R	-36384.40	-737.17	2293.75	16.25	213.05
6	P	20	SLE Q	-33405.10	-698.10	2211.15	15.18	198.54
7	P	18	SLE R	-49076.60	-820.20	3715.59	14.86	201.44
7	P	20	SLE Q	-45208.60	-776.61	3565.27	13.89	187.96
8	P	18	SLE R	-36877.60	-577.71	1741.62	14.77	197.18
8	P	20	SLE Q	-33891.20	-546.75	1665.72	13.75	183.16
9	P	18	SLE R	-37141.90	-498.01	1477.03	14.05	189.53
9	P	20	SLE Q	-34150.50	-471.10	1403.55	13.05	175.72
10	P	18	SLE R	-48508.60	-521.45	2131.84	12.30	170.96
10	P	20	SLE Q	-44640.60	-493.04	1998.04	11.40	158.22
11	P	18	SLE R	-37685.50	-337.88	961.21	12.63	174.48
11	P	20	SLE Q	-34682.80	-319.14	891.39	11.68	161.09
12	P	18	SLE R	-37888.20	-256.24	667.40	11.85	165.97
12	P	20	SLE Q	-34885.00	-241.73	602.02	10.92	152.86
13	P	18	SLE R	-47940.60	-222.71	548.10	9.73	140.48
13	P	20	SLE Q	-44072.70	-209.48	430.83	8.90	128.49
14	P	18	SLE R	-37254.30	-74.19	-519.59	9.05	133.18
14	P	20	SLE Q	-34337.40	-69.66	-526.26	8.28	121.95
15	T	18	SLE R	-35515.40	246.30	-3066.14	12.58	176.91
15	T	20	SLE Q	-32758.20	230.72	-2899.72	11.72	164.65

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	43136.70	2.50	55457.60	90098.00	1.286
2	P	5	37884.70	2.50	43932.80	69552.60	1.160
3	P	5	38604.40	2.50	43932.80	69552.60	1.138
4	P	5	43136.70	2.50	55457.60	90013.20	1.286
5	P	5	38669.00	2.50	43932.80	69552.60	1.136
6	P	5	38658.80	2.50	43932.80	69552.60	1.136
7	P	5	43136.70	2.50	55457.60	89928.40	1.286
8	P	5	38634.90	2.50	43932.80	70896.00	1.137
9	P	5	38618.30	2.50	43932.80	72022.50	1.138
10	P	5	43136.70	2.50	55457.60	89843.60	1.286
11	P	5	38669.90	2.50	43932.80	73889.00	1.136
12	P	5	38908.20	2.50	43932.80	73830.80	1.129
13	P	5	43136.70	2.50	55457.60	89758.80	1.286
14	P	5	36877.90	2.50	43932.80	72416.90	1.191
15	P	5	31314.40	2.50	43932.80	71133.80	1.403

Numero del nucleo n. 130

Nodi: -2001 -2010 -2016 -2022 -1975

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-61155.00	-1080.05	-8595.62	-61155.00	-14779.50	-112697.00	13.120
2	P	17	SLU	-60958.10	-1043.83	-7986.99	-60958.10	-14778.60	-112683.00	14.109
3	P	17	SLU	-60761.20	-1007.60	-7378.38	-895186.00	-14777.60	-112669.00	14.733
4	P	17	SLU	-60564.30	-971.38	-6769.77	-895186.00	-16214.20	-108866.00	14.781
5	P	17	SLU	-60367.50	-935.16	-6161.17	-895186.00	-16213.40	-108852.00	14.829
6	P	17	SLU	-60170.50	-898.93	-5552.56	-895186.00	-17028.10	-106458.00	14.877
7	P	17	SLU	-59973.70	-862.71	-4943.99	-895186.00	-17905.80	-103755.00	14.926
8	P	17	SLU	-59776.80	-826.49	-4335.42	-895186.00	-18834.60	-100876.00	14.976
9	P	17	SLU	-59579.90	-790.26	-3726.87	-895186.00	-20869.00	-94577.10	15.025
10	P	17	SLU	-59383.00	-754.04	-3118.31	-895186.00	-21971.70	-91092.80	15.075
11	P	17	SLU	-59186.10	-717.82	-2509.76	-895186.00	-24375.40	-83395.60	15.125
12	P	17	SLU	-58989.20	-681.59	-1901.18	-895186.00	-27139.10	-74373.60	15.175
13	P	17	SLU	-58792.30	-645.37	-1292.63	-895186.00	-30772.60	-61417.70	15.226

Relazione di calcolo

14	P	17	SLU	-58595.40	-609.15	-684.09	-895186.00	-36106.40	-40332.50	15.277
15	P	17	SLU	-58398.50	-572.92	-75.52	-895186.00	-39387.80	-5124.02	15.329
16	P	17	SLU	-43991.70	2179.02	4512.73	-43991.70	30125.80	62410.20	13.829

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	-10512.20	-2851.42	-84333.00	-10512.20	-2929.65	-84379.30	1.000
2	P	13	SND	-10360.70	-2644.44	-78994.10	-10360.70	-2928.60	-84336.40	1.068
3	P	13	SND	-10209.20	-2437.68	-73656.90	-10209.20	-2928.30	-84315.00	1.145
4	P	13	SND	-10057.80	-2231.21	-68322.10	-10057.80	-2927.26	-84272.20	1.234
5	P	13	SND	-9906.32	-2025.17	-62990.10	-9906.32	-2926.96	-84250.80	1.338
6	P	13	SND	-9754.86	-1819.74	-57661.60	-9754.86	-2925.91	-84207.90	1.461
7	P	13	SND	-9603.41	-1615.27	-52337.80	-9603.41	-2925.61	-84186.50	1.609
8	P	13	SND	-9451.95	-1412.41	-47020.00	-9451.95	-2924.56	-84143.60	1.790
9	P	13	SND	-9300.49	-1212.51	-41710.30	-9300.49	-2924.25	-84121.90	2.017
10	P	13	SND	-9149.04	-1019.06	-36412.40	-9149.04	-2923.19	-84078.60	2.310
11	P	13	SND	-8997.58	-843.22	-31131.90	-8997.58	-2922.13	-84035.30	2.700
12	P	13	SND	-8846.12	-730.99	-25878.40	-8846.12	-2921.82	-84013.70	3.247
13	P	13	SND	-8694.66	-782.57	-20671.70	-8694.66	-2920.76	-83970.40	4.062
14	P	13	SND	-8543.21	-951.60	-15553.40	-8543.21	-5079.02	-79602.50	5.119
15	P	5	SND	-68965.90	-901.05	10841.00	-470333.00	-6769.58	89739.20	6.820
16	P	5	SND	-12869.50	3447.61	26783.70	-12869.50	9587.28	71927.60	2.687

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-44090.50	-811.52	-6121.75	24.42	328.01
1	P	20	SLE Q	-40799.30	-737.56	-6035.50	23.12	310.87
2	P	18	SLE R	-43939.10	-780.26	-5687.47	23.52	316.50
2	P	20	SLE Q	-40647.80	-713.01	-5596.90	22.24	299.48
3	P	18	SLE R	-43787.60	-749.01	-5253.19	22.63	305.19
3	P	20	SLE Q	-40496.30	-688.46	-5158.31	21.37	288.31
4	P	18	SLE R	-43636.10	-717.76	-4818.92	21.76	294.04
4	P	20	SLE Q	-40344.90	-663.91	-4719.72	20.52	277.33
5	P	18	SLE R	-43484.70	-686.50	-4384.66	20.89	282.97
5	P	20	SLE Q	-40193.40	-639.36	-4281.14	19.68	266.49
6	P	18	SLE R	-43333.20	-655.25	-3950.40	20.03	271.92
6	P	20	SLE Q	-40042.00	-614.81	-3842.57	18.85	255.68
7	P	18	SLE R	-43181.80	-624.00	-3516.15	19.17	260.86
7	P	20	SLE Q	-39890.50	-590.26	-3404.01	18.02	244.88
8	P	18	SLE R	-43030.30	-592.75	-3081.91	18.31	249.81
8	P	20	SLE Q	-39739.10	-565.71	-2965.45	17.19	234.08
9	P	18	SLE R	-42878.80	-561.49	-2647.69	17.44	238.76
9	P	20	SLE Q	-39587.60	-541.16	-2526.91	16.35	223.28
10	P	18	SLE R	-42727.40	-530.24	-2213.45	16.58	227.70
10	P	20	SLE Q	-39436.10	-516.61	-2088.36	15.52	212.48
11	P	18	SLE R	-42575.90	-498.99	-1779.22	15.72	216.65
11	P	20	SLE Q	-39284.70	-492.06	-1649.81	14.69	201.68
12	P	18	SLE R	-42424.50	-467.73	-1344.97	14.86	205.60
12	P	20	SLE Q	-39133.20	-467.51	-1211.25	13.86	190.88
13	P	18	SLE R	-42273.00	-436.48	-910.75	13.99	194.54
13	P	20	SLE Q	-38981.80	-442.96	-772.71	13.02	180.08
14	P	18	SLE R	-42121.60	-405.23	-476.53	13.13	183.49
14	P	20	SLE Q	-38830.30	-418.41	-334.17	12.19	169.28
15	T	18	SLE R	-41818.60	-342.72	391.94	12.59	177.46
15	T	20	SLE Q	-38527.40	-369.31	542.93	12.16	169.96
16	P	18	SLE R	-31913.60	1504.97	3186.82	21.18	262.68
16	P	20	SLE Q	-29476.30	1485.15	2827.13	19.98	245.82

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	22083.20	2.50	43932.80	71107.10	1.989
2	P	13	22083.20	2.50	43932.80	71084.70	1.989
3	P	13	22083.20	2.50	43932.80	71062.30	1.989
4	P	13	22083.20	2.50	43932.80	71039.90	1.989
5	P	13	22083.20	2.50	43932.80	71017.50	1.989
6	P	13	22083.20	2.50	43932.80	70995.10	1.989
7	P	13	22083.20	2.50	43932.80	70972.70	1.989
8	P	13	22083.20	2.50	43932.80	70950.30	1.989
9	P	13	22083.20	2.50	43932.80	70927.90	1.989
10	P	13	22083.20	2.50	43932.80	70905.50	1.989
11	P	13	22083.20	2.50	43932.80	70883.10	1.989
12	P	13	22083.20	2.50	43932.80	70860.70	1.989
13	P	13	22083.20	2.50	43932.80	70838.30	1.989
14	P	13	22083.20	2.50	43932.80	70815.90	1.989
15	T	13	22083.20	2.50	43932.80	70771.10	1.989

Numero del nucleo n. 131

Nodi: -40 -1437 -1436 -1435 -1434 -1433 -62

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-74857.00	1785.50	4207.74	-1236570.00	44616.40	105249.00	16.519
2	P	17	SLU	-74461.80	1223.03	3726.19	-1236570.00	41407.90	125670.00	16.607
3	P	17	SLU	-74066.60	660.56	3244.64	-1236570.00	33763.70	168670.00	16.695
4	P	17	SLU	-73671.40	98.09	2763.10	-1236570.00	8185.84	274625.00	16.785
5	P	17	SLU	-73276.20	-464.37	2281.56	-1236570.00	-33752.90	168606.00	16.875
6	P	17	SLU	-72880.90	-1026.85	1800.02	-1236570.00	-47584.30	83723.60	16.967
7	P	17	SLU	-72485.70	-1589.31	1318.48	-1236570.00	-50235.90	41870.80	17.059
8	P	17	SLU	-65862.30	1250.54	2712.37	-1236570.00	45251.80	98369.50	18.775
9	P	17	SLU	-65446.40	1441.00	2203.92	-1236570.00	48330.90	73995.40	18.894
10	P	17	SLU	-65030.50	1631.47	1695.49	-1236570.00	49440.30	52226.00	19.015
11	P	17	SLU	-64614.60	1821.94	1187.05	-1236570.00	49855.80	32326.00	19.138
12	P	17	SLU	-52310.90	-1209.17	-2198.36	-1236570.00	-45867.20	-83197.20	23.639

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	34780.00	9008.40	136872.00	34780.00	8662.85	138121.00	1.009
2	P	5	SND	35084.00	7294.31	125488.00	35084.00	7121.25	142889.00	1.138
3	P	5	SND	35388.00	5580.40	114112.00	35388.00	7118.13	142784.00	1.251
4	P	5	SND	35692.00	3866.84	102743.00	35692.00	4920.45	149480.00	1.455
5	P	5	SND	35996.00	2154.22	91384.50	35996.00	3496.35	153960.00	1.685
6	P	5	SND	36300.10	-1475.47	80041.60	36300.10	-2420.50	157356.00	1.966
7	P	5	SND	36604.10	-1326.18	68721.50	36604.10	-2419.50	157243.00	2.288
8	P	5	SND	41297.30	5338.97	59097.40	41297.30	10712.30	129288.00	2.186
9	P	5	SND	41617.30	4020.30	47354.90	41617.30	10704.40	129153.00	2.727
10	P	5	SND	41937.20	2711.90	35733.20	41937.20	10699.30	129053.00	3.614
11	P	13	SND	-128893.00	931.31	21873.00	-705500.00	8580.20	196672.00	5.474
12	P	13	SND	15498.20	-6998.33	-52105.60	15498.20	-16518.40	-121581.00	2.334

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1	P	18	SLE R	-54242.80	1274.80	3046.50	16.36	217.06
1	P	20	SLE Q	-50312.50	1169.58	3622.39	15.67	208.54
2	P	18	SLE R	-53938.80	877.14	2699.40	14.54	198.26
2	P	20	SLE Q	-50008.50	803.86	3196.80	13.92	190.16
3	P	18	SLE R	-53634.80	479.49	2352.31	12.72	179.45
3	P	20	SLE Q	-49704.50	438.13	2771.21	12.17	171.77
4	P	18	SLE R	-53330.80	81.83	2005.22	10.90	160.64
4	P	20	SLE Q	-49400.40	72.41	2345.63	10.42	153.38
5	P	18	SLE R	-53026.80	-315.83	1658.13	11.51	165.14
5	P	20	SLE Q	-49096.40	-293.32	1920.05	10.93	156.64
6	P	18	SLE R	-52722.70	-713.49	1311.04	12.75	175.68
6	P	20	SLE Q	-48792.40	-659.05	1494.46	11.99	165.25
7	P	18	SLE R	-52418.70	-1111.14	963.96	13.99	186.22
7	P	20	SLE Q	-48488.40	-1024.77	1068.89	13.05	173.85
8	P	18	SLE R	-47785.50	857.07	1866.88	12.83	173.53
8	P	20	SLE Q	-44277.80	742.88	1894.10	11.80	160.49
9	P	18	SLE R	-47465.60	996.95	1500.53	13.06	174.34
9	P	20	SLE Q	-43957.80	911.31	1445.88	12.09	161.55
10	P	18	SLE R	-47145.60	1136.83	1134.19	13.30	175.14
10	P	20	SLE Q	-43637.90	1079.75	997.66	12.38	162.62
11	T	18	SLE R	-46505.80	1416.58	401.51	13.76	176.74
11	T	20	SLE Q	-42998.10	1416.62	101.22	12.95	164.75
12	P	18	SLE R	-38164.30	-853.17	-1490.63	10.96	144.55
12	P	20	SLE Q	-35628.10	-866.60	-1443.25	10.54	138.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	35196.50	2.50	42927.80	106190.00	1.220
2	P	5	35196.50	2.50	42927.80	106190.00	1.220
3	P	5	35196.50	2.50	42927.80	106190.00	1.220
4	P	5	35196.50	2.50	42927.80	106190.00	1.220

Relazione di calcolo

5	P	5	35196.50	2.50	42927.80	106190.00	1.220
6	P	5	35196.50	2.50	42927.80	106190.00	1.220
7	P	5	35196.50	2.50	42927.80	106190.00	1.220
8	P	5	34963.00	2.50	42927.80	106190.00	1.228
9	P	5	34963.00	2.50	42927.80	106190.00	1.228
10	P	5	34963.00	2.50	42927.80	106190.00	1.228
11	T	5	34963.00	2.50	42927.80	106190.00	1.228

Numero del nucleo n. 132

Nodi: -160 -161 -4119 -4120 -4121 -4122 -4123 -4124 -162

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	TP	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-80400.10	150.45	38436.70	-80400.10	5744.47	496002.00	12.905
2	P	17	SLU	-55007.10	154.78	19978.30	-55007.10	5858.73	363455.00	18.194
3	P	17	SLU	-57673.80	145.67	20123.90	-57673.80	4033.99	367784.00	18.277
4	P	17	SLU	-79218.70	151.21	29318.80	-79218.70	5747.26	495669.00	16.907
5	P	17	SLU	-60534.00	138.42	17709.20	-60534.00	5871.44	364685.00	20.595
6	P	17	SLU	-61440.60	137.01	15935.00	-61440.60	5873.51	364887.00	22.901
7	P	17	SLU	-78037.30	151.96	20200.90	-1648760.00	5750.01	495336.00	21.128
8	P	17	SLU	-62895.90	135.76	12029.60	-1424960.00	5876.80	365210.00	22.656
9	P	17	SLU	-63542.10	135.29	9981.44	-1424960.00	5878.26	365353.00	22.425
10	P	17	SLU	-76855.90	152.72	11083.10	-1648760.00	8206.93	488763.00	21.453
11	P	17	SLU	-64688.90	133.27	5764.64	-1424960.00	8307.71	359909.00	22.028
12	P	17	SLU	-65107.90	130.57	3497.69	-1424960.00	12025.50	349274.00	21.886
13	P	17	SLU	-75674.60	153.48	1965.39	-1648760.00	29601.00	395460.00	21.788
14	P	17	SLU	-64991.10	112.08	-1933.24	-1424960.00	18840.20	-315801.00	21.925
15	P	17	SLU	-63854.30	68.25	-5796.83	-1424960.00	1203.81	-364621.00	22.316

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	1	SND	-30144.60	-7308.83	274421.00	-30144.60	-7628.24	295322.00	1.076
2	P	1	SND	20507.90	-5757.24	172541.00	20507.90	-7364.39	201432.00	1.168
3	P	5	SND	13185.90	-5456.98	162808.00	13185.90	-7433.67	204361.00	1.256
4	P	1	SND	-29235.90	4355.80	230387.00	-29235.90	7621.98	294917.00	1.280
5	P	1	SND	3624.65	3268.87	146519.00	3624.65	5212.86	216262.00	1.476
6	P	1	SND	-1063.22	2695.36	136798.00	-1063.22	5231.98	218186.00	1.595
7	P	1	SND	-28327.10	2425.76	186423.00	-28327.10	5266.46	304270.00	1.632
8	P	1	SND	-10222.20	1553.78	117275.00	-10222.20	3801.18	227445.00	1.940
9	P	1	SND	-14743.40	977.58	107422.00	-14743.40	3814.48	229244.00	2.134
10	P	1	SND	-27418.40	524.02	142590.00	-27418.40	3755.79	310432.00	2.177
11	P	1	SND	-23689.90	359.00	87807.50	-23689.90	2636.12	237138.00	2.701
12	P	1	SND	-28157.20	1054.13	77999.30	-28157.20	3853.64	234590.00	3.008
13	P	1	SND	-26509.60	1764.38	99033.40	-26509.60	7602.86	293689.00	2.966
14	P	13	SND	-37920.40	-2759.91	-60334.10	-37920.40	-9436.95	-206978.00	3.431
15	P	9	SND	-35636.70	-3389.04	-57953.40	-35636.70	-11932.40	-197663.00	3.411

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _t <daN/cm²>
1	P	18	SLE R	-57931.50	120.29	28147.10	19.17	277.65
1	P	20	SLE Q	-51554.60	173.86	25843.20	17.66	254.61
2	P	18	SLE R	-39464.90	120.90	14655.30	14.38	202.64
2	P	20	SLE Q	-34901.70	159.67	13617.90	13.33	186.68
3	P	18	SLE R	-41393.40	112.77	14750.10	14.65	206.88
3	P	20	SLE Q	-36576.90	141.39	13660.50	13.49	189.50
4	P	18	SLE R	-57022.80	116.04	21471.90	16.05	233.32
4	P	20	SLE Q	-50645.90	136.71	19815.20	14.68	212.71
5	P	18	SLE R	-43451.70	104.63	12971.80	13.87	196.92
5	P	20	SLE Q	-38344.00	113.62	12012.20	12.63	178.77
6	P	18	SLE R	-44100.80	102.17	11670.90	13.27	188.85
6	P	20	SLE Q	-38896.30	101.39	10828.90	12.02	170.77
7	P	18	SLE R	-56114.00	111.79	14796.70	13.30	193.95
7	P	20	SLE Q	-49737.10	99.56	13787.20	12.05	175.64
8	P	18	SLE R	-45139.60	98.44	8810.54	11.92	170.62
8	P	20	SLE Q	-39778.20	78.13	8240.70	10.73	153.50
9	P	18	SLE R	-45600.20	96.68	7311.50	11.20	160.89
9	P	20	SLE Q	-40168.90	66.44	6887.36	10.04	144.33
10	P	18	SLE R	-55205.30	107.54	8121.60	10.60	155.19

Relazione di calcolo

10	P	20	SLE Q	-48828.40	62.41	7759.27	9.50	139.54	
11	P	18	SLE R	-46419.60	92.34	4229.53	9.70	140.55	
11	P	20	SLE Q	-40860.50	41.71	4107.21	8.60	125.21	
12	P	18	SLE R	-46722.10	88.93	2578.07	8.87	129.30	
12	P	20	SLE Q	-41109.00	27.57	2617.09	7.81	114.65	
13	P	18	SLE R	-54296.60	103.29	1446.49	7.89	116.42	
13	P	20	SLE Q	-47919.60	25.26	1731.35	6.95	103.44	
14	P	18	SLE R	-46668.60	72.71	-1342.71	7.69	113.74	
14	P	20	SLE Q	-40988.10	-10.64	-942.88	6.46	96.47	
15	T	18	SLE R	-45632.30	-0.92	-6614.13	10.01	147.68	
15	T	20	SLE Q	-39957.40	-97.62	-5769.64	9.08	132.25	

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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}	W _k <mm>
1	P	20	SLE Q	-51554.60	173.86	25843.20	33.00	160.00	0.50	24.00	126.38	9.05	227.62	62.53	0.02	0.00
1	P	19	SLE F	-53081.00	163.64	26356.50	33.00	160.00	0.50	24.00	126.88	9.05	229.53	61.67	0.02	0.00
2	P	20	SLE Q	-34901.70	159.67	13617.90	33.00	160.00	0.50	24.00	130.24	4.52	121.09	35.66	0.01	0.00
2	P	19	SLE F	-36011.70	152.48	13849.90	33.00	160.00	0.50	24.00	128.17	4.52	117.18	34.19	0.01	0.00
3	P	20	SLE Q	-36576.90	141.39	13660.50	33.00	160.00	0.50	24.00	121.19	4.52	104.03	29.98	0.01	0.00
3	P	19	SLE F	-37743.00	136.25	13903.90	33.00	160.00	0.50	24.00	118.69	4.52	99.32	28.62	0.01	0.00
4	P	20	SLE Q	-50645.90	136.71	19815.20	33.00	160.00	0.50	24.00	95.89	4.52	56.35	16.69	0.00	0.00
4	P	19	SLE F	-52172.30	133.24	20184.30	33.00	160.00	0.50	24.00	93.26	4.52	51.37	15.43	0.00	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	60791.70	2.50	69215.60	147254.00	1.139
2	P	1	56226.70	2.50	60364.50	124436.00	1.074
3	P	1	57518.50	2.50	60364.50	124436.00	1.049
4	P	1	60791.70	2.50	69215.60	147116.00	1.139
5	P	1	58078.60	2.50	60364.50	124436.00	1.039
6	P	1	58141.20	2.50	60364.50	124596.00	1.038
7	P	1	60791.70	2.50	69215.60	146978.00	1.139
8	P	1	58182.50	2.50	60364.50	125981.00	1.038
9	P	1	58195.30	2.50	60364.50	126665.00	1.037
10	P	1	60791.70	2.50	69215.60	146840.00	1.139
11	P	1	58210.80	2.50	60364.50	128017.00	1.037
12	P	1	58164.90	2.50	60364.50	128692.00	1.038
13	P	1	60791.70	2.50	69215.60	146702.00	1.139
14	P	1	57143.80	2.50	60364.50	130066.00	1.056
15	P	1	55789.30	2.50	60364.50	129886.00	1.082

Numero del nucleo n. 133

Nodi: -402 -4712 -4713 -4714 -403 -4625 -404 -4385 -4386 -4387 -4388 -405

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-117340.00	1412.49	6057.96	-1978510.00	68106.40	288183.00	16.861
2	P	17	SLU	-17641.00	393.22	1149.07	-17641.00	9404.48	26897.40	23.462
3	P	17	SLU	-21693.20	361.63	1117.92	-470509.00	9097.83	27616.40	21.689
4	P	17	SLU	-115922.00	1282.24	5987.65	-1978510.00	65767.60	311372.00	17.068
5	P	17	SLU	-27487.00	327.11	695.26	-470509.00	11327.40	23935.20	17.117
6	P	17	SLU	-29012.60	314.95	475.31	-470509.00	13309.00	19960.20	16.217
7	P	17	SLU	-114504.00	1151.98	5917.36	-1978510.00	63536.10	332925.00	17.279
8	P	17	SLU	-30248.90	294.12	212.34	-470509.00	16511.60	11812.30	15.555
9	P	17	SLU	-30239.70	284.55	145.28	-470509.00	16928.60	8798.10	15.559
10	P	17	SLU	-113087.00	1021.72	5846.98	-1978510.00	61389.70	352651.00	17.495
11	P	17	SLU	-29139.00	264.95	76.56	-470509.00	17161.00	4924.89	16.147
12	P	17	SLU	-27961.10	250.41	39.82	-470509.00	17170.10	2770.78	16.827
13	P	17	SLU	-111669.00	891.46	5776.71	-1978510.00	57474.50	388024.00	17.718
14	P	17	SLU	-25119.10	154.31	-32.06	-470509.00	16859.50	-3481.31	18.731
15	P	17	SLU	-24891.70	13.29	34.97	-470509.00	9821.21	26510.10	18.902

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	9	SND	-70310.40	7098.64	402638.00	-70310.40	7541.09	448612.00	1.114
2	P	1	SND	42615.50	1620.06	-8378.32	42615.50	2323.04	-12561.40	1.433
3	P	1	SND	38922.40	1475.36	-8532.89	38922.40	2199.90	-13435.40	1.505

Relazione di calcolo

4	P	9	SND	-69219.80	5628.72	345828.00	-69219.80	7533.62	448006.00	1.295
5	P	1	SND	30696.40	1226.54	-8460.84	30696.40	2149.61	-15167.00	1.715
6	P	1	SND	26884.10	1108.49	-8282.29	26884.10	1999.41	-16053.30	1.854
7	P	9	SND	-68129.40	4161.12	289134.00	-68129.40	7527.09	447415.00	1.547
8	P	1	SND	20298.70	876.88	-7805.20	20298.70	1882.91	-17407.70	2.141
9	P	1	SND	17445.90	761.64	-7497.54	17445.90	1709.15	-18142.30	2.326
10	P	9	SND	-67038.90	2700.34	232641.00	-67038.90	7520.57	446823.00	1.921
11	P	1	SND	12706.10	537.35	-6882.62	12706.10	1333.65	-19456.90	2.729
12	P	1	SND	11024.00	431.89	-6552.30	11024.00	1351.52	-19756.20	2.918
13	P	9	SND	-65948.40	1282.64	176539.00	-65948.40	5212.01	458144.00	2.595
14	P	1	SND	8166.08	261.82	-5941.67	8166.08	921.03	-20765.50	3.396
15	P	1	SND	5388.75	-212.57	-5574.05	5388.75	-948.86	-21263.30	3.736

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-85182.00	1013.39	4303.32	12.84	177.90
1	P	20	SLE Q	-78932.90	1083.95	3576.15	12.14	166.57
2	P	18	SLE R	-12720.70	282.07	838.61	13.36	152.22
2	P	20	SLE Q	-11772.40	294.83	768.41	12.70	143.97
3	P	18	SLE R	-15674.20	259.02	815.52	14.41	169.60
3	P	20	SLE Q	-14488.50	268.89	745.47	13.58	159.24
4	P	18	SLE R	-84091.50	917.05	4247.84	12.47	173.71
4	P	20	SLE Q	-77842.40	944.49	3596.12	11.69	161.69
5	P	18	SLE R	-19896.10	233.66	506.38	14.69	184.23
5	P	20	SLE Q	-18372.20	236.48	458.74	13.74	171.73
6	P	18	SLE R	-21006.20	224.66	345.61	14.35	184.56
6	P	20	SLE Q	-19392.70	223.72	310.38	13.37	171.58
7	P	18	SLE R	-83001.00	820.72	4192.38	12.10	169.52
7	P	20	SLE Q	-76751.90	805.02	3616.10	11.23	156.80
8	P	18	SLE R	-21904.30	209.17	153.51	13.68	181.46
8	P	20	SLE Q	-20214.80	200.57	133.61	12.66	167.85
9	P	18	SLE R	-21899.90	202.03	104.59	13.36	178.72
9	P	20	SLE Q	-20207.10	189.52	88.86	12.32	164.88
10	P	18	SLE R	-81910.50	724.38	4136.85	11.73	165.33
10	P	20	SLE Q	-75661.40	665.56	3636.02	10.78	151.92
11	P	18	SLE R	-21121.90	187.43	54.71	12.58	169.74
11	P	20	SLE Q	-19480.90	167.25	43.60	11.51	155.74
12	P	18	SLE R	-20291.20	176.79	28.72	11.94	161.76
12	P	20	SLE Q	-18709.60	153.31	19.89	10.87	147.96
13	P	18	SLE R	-80820.00	628.04	4081.41	11.36	161.14
13	P	20	SLE Q	-74570.90	526.10	3656.02	10.32	147.03
14	P	18	SLE R	-18280.20	108.29	-22.06	9.99	138.87
14	P	20	SLE Q	-16849.90	85.47	-26.22	9.04	126.39
15	T	18	SLE R	-18005.90	-91.49	-121.37	9.19	131.20
15	T	20	SLE Q	-16597.50	-93.79	-112.11	8.57	121.83

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	78603.80	2.50	130166.00	181904.00	1.656
2	P	9	27651.30	2.50	31919.20	42111.00	1.154
3	P	9	29841.90	2.50	31919.20	42111.00	1.070
4	P	1	78603.80	2.50	130166.00	181738.00	1.656
5	P	9	29930.90	2.50	31919.20	42111.00	1.066
6	P	9	29411.90	2.50	31919.20	42111.00	1.085
7	P	1	78603.80	2.50	130166.00	181572.00	1.656
8	P	9	28549.50	2.50	31919.20	42111.00	1.118
9	P	1	28270.50	2.50	31919.20	42111.00	1.129
10	P	1	78603.80	2.50	130166.00	181406.00	1.656
11	P	1	28661.70	2.50	31919.20	42111.00	1.114
12	P	1	28588.80	2.50	31919.20	42111.00	1.116
13	P	1	78603.80	2.50	130166.00	181241.00	1.656
14	P	1	26449.70	2.50	31919.20	42111.00	1.207
15	P	9	27124.20	2.50	31919.20	42111.00	1.177

Numero del nucleo n. 134

Nodi: -7116 -122 -6678 -6679 -6680 -6681

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy	MRdz	Sic.
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			<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1P	17	SLU	-34384.10	-187.87	19458.30	-34384.10	-975.85	133629.00	6.867
2P	17	SLU	-34068.80	-159.05	17173.00	-34068.80	-976.34	133608.00	7.780
3P	17	SLU	-33753.50	-130.23	14887.70	-33753.50	-976.84	133538.00	8.970
4P	17	SLU	-33438.20	-101.41	12602.40	-33438.20	-0.00	133321.00	10.579
5P	17	SLU	-33123.00	-72.59	10317.20	-33123.00	-0.00	133234.00	12.913
6P	17	SLU	-32807.70	-43.77	8032.00	-32807.70	-0.00	133165.00	16.579
7P	17	SLU	-32492.40	-14.95	5746.77	-32492.40	0.00	133103.00	23.160
8P	17	SLU	-32177.10	13.87	3461.60	-847342.00	979.38	133192.00	26.334
9P	17	SLU	-31861.80	42.69	1176.37	-847342.00	4769.78	128599.00	26.594
10P	17	SLU	-31546.50	71.51	-1108.79	-847342.00	8188.05	-121885.00	26.860
11T	17	SLU	-30915.90	129.15	-5679.17	-30915.90	2077.38	-131907.00	23.223
12P	17	SLU	-21786.60	-152.21	-983.75	-847341.00	-15623.30	-98459.00	38.893

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	1	SND		-4849.29	3750.14	73367.20	-4849.29	4265.91	73868.90	1.007
2P	1	SND		-4606.75	3449.07	66522.40	-4606.75	4266.37	73869.50	1.111
3P	1	SND		-4364.23	3148.16	59680.00	-4364.23	4263.47	73781.20	1.237
4P	1	SND		-4121.70	2847.44	52840.80	-4121.70	4283.96	73723.10	1.396
5P	1	SND		-3879.17	2547.00	46005.80	-3879.17	4259.38	73634.00	1.601
6P	1	SND		-3636.64	2246.95	39177.20	-3636.64	4258.17	73575.10	1.878
7P	1	SND		-3394.11	1947.46	32358.20	-3394.11	4276.96	73487.60	2.271
8P	1	SND		-3151.58	1648.88	25555.70	-3151.58	4254.06	73427.90	2.872
9P	1	SND		-2909.05	1351.83	18783.20	-2909.05	5037.79	71554.50	3.809
10P	9	SND		260.93	-970.05	-13592.90	260.93	-5013.34	-70534.60	5.189
11P	9	SND		503.46	-646.05	-10161.10	503.46	-4244.69	-72311.10	7.114
12P	9	SND		-1709.64	-944.10	-28201.10	-1709.64	-2944.03	-76001.00	2.695

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1P	18	SLE	R	-25147.10	-134.19	14126.40	28.85	399.46
1P	20	SLE	Q	-24008.60	-121.10	13104.80	26.79	371.36
2P	18	SLE	R	-24904.60	-113.64	12465.00	25.61	356.24
2P	20	SLE	Q	-23766.10	-102.78	11564.50	23.79	331.34
3P	18	SLE	R	-24662.10	-93.09	10803.70	22.40	313.27
3P	20	SLE	Q	-23523.60	-84.45	10024.20	20.82	291.59
4P	18	SLE	R	-24419.50	-72.54	9142.33	19.23	270.76
4P	20	SLE	Q	-23281.00	-66.12	8483.86	17.90	252.35
5P	18	SLE	R	-24177.00	-52.00	7481.02	16.20	229.93
5P	20	SLE	Q	-23038.50	-47.79	6943.56	15.12	214.80
6P	18	SLE	R	-23934.50	-31.45	5819.74	13.43	192.30
6P	20	SLE	Q	-22796.00	-29.46	5403.30	12.58	180.35
7P	18	SLE	R	-23692.00	-10.90	4158.43	11.06	159.93
7P	20	SLE	Q	-22553.50	-11.14	3863.01	10.41	150.63
8P	18	SLE	R	-23449.40	9.65	2497.17	8.93	130.25
8P	20	SLE	Q	-22310.90	7.19	2322.76	8.42	122.90
9P	18	SLE	R	-23206.90	30.20	835.86	6.91	101.71
9P	20	SLE	Q	-22068.40	25.52	782.47	6.54	96.33
10P	18	SLE	R	-22964.40	50.75	-825.39	6.95	101.70
10P	20	SLE	Q	-21825.90	43.85	-757.76	6.55	95.96
11T	18	SLE	R	-22479.30	91.84	-4147.94	11.19	159.62
11T	20	SLE	Q	-21340.80	80.50	-3838.29	10.46	149.45
12P	18	SLE	R	-15964.30	-106.72	-706.85	5.40	76.77
12P	20	SLE	Q	-15202.60	-90.15	-725.00	5.14	73.39

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cm ² >	A _{c eff} <cm ² >	σ_s <daN/cm ² >	ϵ_{sm}	W _k <mm>
1P	20	SLE	Q	-24008.60	-121.10	13104.80	33.00	164.00	0.50	20.00	152.34	6.28	271.25	293.79	0.09	0.02
1P	19	SLE	F	-24291.00	-124.44	13352.60	33.00	164.00	0.50	20.00	152.34	6.28	271.25	301.54	0.09	0.02
2P	20	SLE	Q	-23766.10	-102.78	11564.50	33.00	164.00	0.50	20.00	151.55	6.28	268.75	227.91	0.07	0.02
2P	19	SLE	F	-24048.40	-105.52	11783.10	33.00	164.00	0.50	20.00	151.55	6.28	268.75	234.22	0.07	0.02
3P	20	SLE	Q	-23523.60	-84.45	10024.20	33.00	164.00	0.50	20.00	151.54	6.28	268.73	164.94	0.05	0.01
3P	19	SLE	F	-23805.90	-86.60	10213.50	33.00	164.00	0.50	20.00	151.55	6.28	268.75	169.80	0.05	0.01
4P	20	SLE	Q	-23281.00	-66.12	8483.86	33.00	164.00	0.50	20.00	146.60	6.28	253.23	106.18	0.03	0.01
4P	19	SLE	F	-23563.40	-67.68	8644.05	33.00	164.00	0.50	20.00	147.03	6.28	254.57	109.63	0.03	0.01
5P	20	SLE	Q	-23038.50	-47.79	6943.56	33.00	164.00	0.50	20.00	123.89	6.28	181.88	54.60	0.02	0.00
5P	19	SLE	F	-23320.80	-48.76	7074.55	33.00	164.00	0.50	20.00	124.89	6.28	184.99	56.72	0.02	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		20744.80	2.50	33377.10	83289.30	1.609
2P	1		20744.80	2.50	33377.10	83253.00	1.609

Relazione di calcolo

3	P	1	20744.80	2.50	33377.10	83216.80	1.609
4	P	1	20744.80	2.50	33377.10	83180.50	1.609
5	P	1	20744.80	2.50	33377.10	83144.20	1.609
6	P	1	20744.80	2.50	33377.00	83108.00	1.609
7	P	1	20744.80	2.50	33377.00	83071.70	1.609
8	P	1	20744.80	2.50	33377.00	83035.40	1.609
9	P	1	20744.80	2.50	33377.00	82999.10	1.609
10	P	1	20744.80	2.50	33377.00	82962.90	1.609
11	P	1	20744.80	2.50	33377.00	82926.60	1.609

Numero del nucleo n. 135

Nodi: -48 -7337 -7338 -7339 -7340 -7341 -7342

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	TP	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-62577.00	2214.49	6968.14	-62577.00	47605.90	152009.00	21.786
2	P	17	SLU	-35093.80	1340.75	913.15	-895186.00	37289.20	24993.00	25.508
3	P	17	SLU	-35864.10	1221.41	1435.29	-895186.00	35473.90	42112.30	24.960
4	P	17	SLU	-61690.90	1664.15	5454.53	-1378180.00	47589.20	151951.00	22.340
5	P	17	SLU	-36757.50	981.80	1580.33	-895186.00	33189.80	52907.70	24.354
6	P	17	SLU	-37039.40	860.52	1463.30	-895186.00	32719.20	54893.20	24.169
7	P	17	SLU	-60804.90	1113.81	3940.95	-1378180.00	45478.50	164106.00	22.666
8	P	17	SLU	-37545.20	616.89	1164.16	-895186.00	31611.30	59712.50	23.843
9	P	17	SLU	-37799.40	495.14	1017.12	-895186.00	30922.60	62423.00	23.683
10	P	17	SLU	-59918.90	563.48	2427.39	-1378180.00	41751.10	185348.00	23.001
11	P	17	SLU	-38272.80	253.41	708.01	-895186.00	27269.40	76597.20	23.390
12	P	17	SLU	-38411.90	135.12	482.44	-895186.00	24455.40	86491.30	23.305
13	P	17	SLU	-59032.80	13.14	913.85	-1378180.00	6396.08	337909.00	23.346
14	P	17	SLU	-38056.00	-85.66	-515.90	-895186.00	-17066.90	-102429.00	23.523
15	P	17	SLU	-38038.50	-181.46	-1228.01	-895186.00	-16279.60	-104572.00	23.534

Stato limite elastico - Verifiche a flessione/presoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	9	SND	-37575.20	5481.06	191295.00	-37575.20	6031.85	217066.00	1.135
2	P	5	SND	76244.20	4378.97	-53008.20	76244.20	4552.91	-54000.90	1.018
3	P	1	SND	70140.90	3955.66	-49936.30	70140.90	3962.97	-56856.50	1.131
4	P	9	SND	-36893.70	4187.00	155349.00	-36893.70	6030.05	216835.00	1.396
5	P	1	SND	55695.20	3188.21	-42976.90	55695.20	4031.29	-60543.60	1.388
6	P	1	SND	48593.20	2819.60	-39619.10	48593.20	4060.55	-62329.50	1.546
7	P	9	SND	-36212.10	2893.92	119442.00	-36212.10	6028.61	216645.00	1.814
8	P	1	SND	34468.90	2089.47	-32952.60	34468.90	4191.04	-65887.50	1.960
9	P	1	SND	27422.20	1725.27	-29625.50	27422.20	4253.44	-67657.10	2.239
10	P	9	SND	-35530.60	1604.05	83621.60	-35530.60	6025.88	216409.00	2.588
11	P	1	SND	13431.30	993.45	-22978.70	13431.30	2996.33	-73522.40	3.150
12	P	1	SND	6592.84	622.76	-19678.60	6592.84	1989.23	-77304.80	3.889
13	P	9	SND	-34849.00	348.76	48075.50	-34849.00	2992.90	227259.00	4.727
14	P	1	SND	-5100.46	-231.54	-13045.30	-5100.46	-1973.87	-80181.30	6.147
15	P	1	SND	-6662.54	-607.47	-8036.47	-6662.54	-5218.29	-74458.10	9.261

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cmq>	σt <daN/cmq>
1	P	18	SLE R	-45641.90	1606.94	5006.57	16.02	205.15
1	P	20	SLE Q	-41734.70	1475.23	4830.30	14.83	190.04
2	P	18	SLE R	-25648.00	973.39	640.13	13.11	163.91
2	P	20	SLE Q	-23265.40	893.76	674.24	12.10	151.16
3	P	18	SLE R	-26201.00	887.10	1023.73	13.37	169.44
3	P	20	SLE Q	-23771.90	815.00	1009.54	12.31	155.90
4	P	18	SLE R	-44960.30	1209.36	3912.26	13.80	180.59
4	P	20	SLE Q	-41053.10	1111.89	3753.45	12.74	166.72
5	P	18	SLE R	-26832.80	713.97	1133.06	12.76	165.29
5	P	20	SLE Q	-24361.90	656.85	1087.22	11.72	151.69
6	P	18	SLE R	-27027.70	626.35	1048.79	12.21	159.88
6	P	20	SLE Q	-24549.00	576.79	1001.76	11.21	146.62
7	P	18	SLE R	-44278.70	811.77	2817.98	11.61	156.30
7	P	20	SLE Q	-40371.50	748.56	2676.61	10.68	143.72
8	P	18	SLE R	-27374.90	450.36	832.26	11.01	147.89
8	P	20	SLE Q	-24885.60	415.98	788.51	10.09	135.43
9	P	18	SLE R	-27549.40	362.42	725.76	10.41	141.94

Relazione di calcolo

9	P	20	SLE Q	-25054.90	335.64	683.67	9.54	129.87
10	P	18	SLE R	-43597.20	414.18	1723.70	9.42	132.01
10	P	20	SLE Q	-39690.00	385.22	1599.79	8.62	120.71
11	P	18	SLE R	-27874.80	187.93	503.00	9.21	129.82
11	P	20	SLE Q	-25371.60	176.30	464.88	8.42	118.57
12	P	18	SLE R	-27969.40	102.67	342.26	8.52	122.59
12	P	20	SLE Q	-25467.50	98.56	310.16	7.79	111.85
13	P	18	SLE R	-42915.60	16.60	629.45	7.23	107.72
13	P	20	SLE Q	-39008.40	21.89	522.99	6.56	97.71
14	P	18	SLE R	-27710.60	-55.60	-364.23	7.12	104.88
14	P	20	SLE Q	-25246.00	-45.05	-352.28	6.42	94.85
15	T	18	SLE R	-27534.00	-194.21	-1612.20	9.43	132.97
15	T	20	SLE Q	-25065.60	-170.01	-1518.14	8.62	121.68

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	49534.40	2.50	66982.50	111692.00	1.352
2	P	1	34543.50	2.50	43932.80	69552.60	1.272
3	P	9	36132.40	2.50	43932.80	69552.60	1.216
4	P	9	49534.40	2.50	66982.50	111589.00	1.352
5	P	9	36662.00	2.50	43932.80	69552.60	1.198
6	P	9	36691.20	2.50	43932.80	69552.60	1.197
7	P	9	49534.40	2.50	66982.50	111487.00	1.352
8	P	9	36684.30	2.50	43932.80	69552.60	1.198
9	P	9	36686.10	2.50	43932.80	69552.60	1.198
10	P	9	49534.40	2.50	66982.50	111385.00	1.352
11	P	9	36818.20	2.50	43932.80	69552.60	1.193
12	P	9	36852.10	2.50	43932.80	69552.60	1.192
13	P	9	49534.40	2.50	66982.50	111282.00	1.352
14	P	9	32490.50	2.50	43932.80	69552.60	1.352
15	P	9	30252.80	2.50	43932.80	69620.50	1.452

Numero del nucleo n. 136

Nodi: -33 -1562 -1561 -1560 -1559 -1558 -55

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-77195.00	-1781.67	3200.89	-1236570.00	-47512.80	85689.10	16.019
2	P	17	SLU	-76799.80	-1217.60	2849.91	-1236570.00	-44670.60	105367.00	16.101
3	P	17	SLU	-76404.50	-653.53	2498.94	-1236570.00	-38083.90	145321.00	16.184
4	P	17	SLU	-76009.30	-89.46	2147.97	-1236570.00	-11944.20	264431.00	16.269
5	P	17	SLU	-75614.10	474.61	1797.01	-1236570.00	38068.90	145261.00	16.354
6	P	17	SLU	-75218.90	1038.68	1446.04	-1236570.00	49297.80	69627.00	16.440
7	P	17	SLU	-74823.60	1602.74	1095.08	-1236570.00	50503.80	34681.40	16.526
8	P	17	SLU	-68243.40	-1159.58	2634.64	-1236570.00	-44906.20	101794.00	18.120
9	P	17	SLU	-67827.50	-1348.36	2267.04	-1236570.00	-47788.70	80154.30	18.231
10	P	17	SLU	-67411.60	-1537.14	1899.44	-1236570.00	-49222.50	61549.40	18.343
11	P	17	SLU	-66995.70	-1725.93	1531.84	-1236570.00	-49782.50	44211.30	18.457
12	P	17	SLU	-54932.70	1278.97	-2021.61	-1236570.00	46930.80	-74310.40	22.511

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yzd <daNm>	Sic.
1	P	13	SND	17314.40	-9051.40	112661.00	17314.40	-11125.40	137292.00	1.219
2	P	13	SND	17618.50	-7318.42	103419.00	17618.50	-9943.47	140897.00	1.362
3	P	13	SND	17922.50	-5585.56	94181.20	17922.50	-8907.76	143911.00	1.528
4	P	5	SND	18968.90	3709.45	85423.20	18968.90	7287.59	148546.00	1.739
5	P	5	SND	19273.00	2713.46	76142.60	19273.00	5025.95	155389.00	2.041
6	P	5	SND	19577.00	1720.45	66872.60	19577.00	5024.10	155282.00	2.323
7	P	13	SND	19138.60	1373.94	57313.40	19138.60	5026.39	155424.00	2.713
8	P	13	SND	24369.10	-5179.02	49470.70	24369.10	-13292.40	127915.00	2.586
9	P	13	SND	24689.00	-3991.29	39883.10	24689.00	-12447.50	130429.00	3.269
10	P	13	SND	25008.90	-2820.15	30387.80	25008.90	-12437.90	130303.00	4.289
11	P	5	SND	-115222.00	-1741.38	20719.10	-705500.00	-13409.80	178053.00	6.123
12	P	5	SND	6749.11	6746.36	-44479.70	6749.11	18385.80	-119755.00	2.693

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cmq>	σt <daN/cmq>
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Relazione di calcolo

1	P	18	SLE R	-55995.10	-1275.09	2282.24	16.14	214.25
1	P	20	SLE Q	-51910.70	-1175.75	2484.99	15.19	201.95
2	P	18	SLE R	-55691.10	-875.81	2033.90	14.38	196.34
2	P	20	SLE Q	-51606.70	-807.75	2203.99	13.53	184.87
3	P	18	SLE R	-55387.10	-476.53	1785.57	12.63	178.42
3	P	20	SLE Q	-51302.60	-439.75	1923.00	11.87	167.79
4	P	18	SLE R	-55083.00	-77.25	1537.24	10.87	160.50
4	P	20	SLE Q	-50998.60	-71.74	1642.00	10.21	150.72
5	P	18	SLE R	-54779.00	322.02	1288.91	11.59	166.35
5	P	20	SLE Q	-50694.60	296.26	1361.01	10.83	155.50
6	P	18	SLE R	-54475.00	721.31	1040.58	12.90	177.91
6	P	20	SLE Q	-50390.60	664.27	1080.02	12.00	165.59
7	P	18	SLE R	-54171.00	1120.58	792.26	14.21	189.46
7	P	20	SLE Q	-50086.60	1032.27	799.03	13.17	175.67
8	P	18	SLE R	-49568.70	-791.57	1804.56	12.85	175.14
8	P	20	SLE Q	-45906.40	-679.45	1777.88	11.76	161.25
9	P	18	SLE R	-49248.80	-929.75	1544.35	13.14	176.90
9	P	20	SLE Q	-45586.50	-845.49	1482.57	12.14	163.70
10	P	18	SLE R	-48928.80	-1067.92	1284.14	13.44	178.66
10	P	20	SLE Q	-45266.60	-1011.53	1187.27	12.53	166.15
11	T	18	SLE R	-48289.00	-1344.26	763.73	14.04	182.19
11	T	20	SLE Q	-44626.70	-1343.61	596.67	13.29	171.05
12	P	18	SLE R	-40105.50	892.73	-1367.56	11.36	149.85
12	P	20	SLE Q	-37228.90	891.48	-1357.60	10.85	142.25

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	28739.00	2.50	42927.80	106190.00	1.494
2	P	5	28739.00	2.50	42927.80	106190.00	1.494
3	P	5	28739.00	2.50	42927.80	106190.00	1.494
4	P	5	28739.00	2.50	42927.80	106190.00	1.494
5	P	5	28739.00	2.50	42927.80	106190.00	1.494
6	P	5	28739.00	2.50	42927.80	106190.00	1.494
7	P	5	28739.00	2.50	42927.80	106190.00	1.494
8	P	5	28853.10	2.50	42927.80	106190.00	1.488
9	P	5	28853.10	2.50	42927.80	106190.00	1.488
10	P	5	28853.10	2.50	42927.80	106190.00	1.488
11	P	5	28853.10	2.50	42927.80	106190.00	1.488

Numero del nucleo n. 137

Nodi: -7036 -219 -244 -269 -7005 -7004 -293

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-71811.40	2137.41	5767.25	-1140150.00	38524.20	104089.00	15.877
2	P	17	SLU	-58365.30	1513.15	3556.32	-859781.00	26981.40	63363.40	14.731
3	P	17	SLU	-58821.70	1373.24	2737.43	-859781.00	28591.50	57823.80	14.617
4	P	17	SLU	-71046.50	1606.93	4907.91	-1140150.00	37119.70	110893.00	16.048
5	P	17	SLU	-58374.70	1100.72	2144.07	-859781.00	28974.80	56243.60	14.729
6	P	17	SLU	-57932.30	964.17	2017.45	-859781.00	28155.90	59177.00	14.841
7	P	17	SLU	-70281.60	1076.44	4048.61	-1140150.00	33316.50	128304.00	16.223
8	P	17	SLU	-57053.80	691.08	1769.58	-859781.00	26215.80	65817.60	15.070
9	P	17	SLU	-56654.10	554.76	1621.64	-859781.00	24180.20	72558.30	15.176
10	P	17	SLU	-69516.60	545.96	3189.32	-1140150.00	27294.00	154731.00	16.401
11	P	17	SLU	-55830.80	283.42	1327.74	-859781.00	18718.80	89898.80	15.400
12	P	17	SLU	-55200.60	149.76	1298.33	-859781.00	12688.50	106672.00	15.576
13	P	17	SLU	-68751.70	15.48	2330.07	-1140150.00	2730.96	230412.00	16.584
14	P	17	SLU	-52359.10	-103.53	2230.30	-859781.00	-6283.74	119829.00	16.421
15	P	17	SLU	-49743.80	-211.91	3582.61	-859781.00	-6290.35	119532.00	17.284

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M' ydy <daNm>	M' ydz <daNm>	Sic.
1	P	9	SND	-15528.40	4217.12	128149.00	-15528.40	4058.86	139793.00	1.091
2	P	9	SND	48145.80	3024.67	57346.10	48145.80	3121.99	61812.30	1.076
3	P	9	SND	43362.20	2756.69	53273.50	43362.20	3167.26	63016.50	1.180
4	P	9	SND	-14940.00	3234.92	103465.00	-14940.00	4054.53	139624.00	1.349
5	P	9	SND	34960.90	2246.59	45485.50	34960.90	2674.18	66235.10	1.449
6	P	9	SND	30894.50	1993.15	41708.00	30894.50	2692.78	67272.50	1.604
7	P	9	SND	-14351.60	2253.61	78806.80	-14351.60	4050.20	139455.00	1.770

Relazione di calcolo

8	P	9	SND	22811.00	1487.28	34147.60	22811.00	2735.61	69201.60	2.013
9	P	9	SND	18797.10	1234.79	30334.40	18797.10	2757.57	70186.70	2.298
10	P	9	SND	-13763.20	1275.05	54207.80	-13763.20	4045.19	139263.00	2.569
11	P	9	SND	10764.60	730.82	22742.10	10764.60	2799.42	72121.60	3.152
12	P	9	SND	6617.14	480.09	19236.70	6617.14	1785.40	75186.80	3.889
13	P	9	SND	-13174.80	316.36	29815.60	-13174.80	1787.98	145552.00	4.882
14	P	9	SND	-3257.40	-158.29	15332.80	-3257.40	-887.24	79565.80	5.189
15	P	9	SND	-8924.41	-313.49	16635.30	-8924.41	-876.71	80948.10	4.865

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
1	P	18	SLE R	-52182.70	1544.31	4296.80	20.33	263.52
1	P	20	SLE Q	-47327.40	1406.58	3757.52	18.34	237.51
2	P	18	SLE R	-42472.20	1093.57	2631.63	20.39	265.88
2	P	20	SLE Q	-38428.80	996.18	2309.07	18.38	239.42
3	P	18	SLE R	-42786.80	992.87	2030.05	18.97	249.11
3	P	20	SLE Q	-38696.40	905.42	1779.02	17.11	224.50
4	P	18	SLE R	-51594.30	1162.51	3635.31	17.99	238.36
4	P	20	SLE Q	-46738.90	1061.50	3193.48	16.25	215.03
5	P	18	SLE R	-42426.30	796.75	1586.58	17.09	228.16
5	P	20	SLE Q	-38352.30	728.31	1394.42	15.44	205.85
6	P	18	SLE R	-42086.40	698.47	1488.83	16.30	219.69
6	P	20	SLE Q	-38039.50	639.50	1311.58	14.73	198.29
7	P	18	SLE R	-51005.90	780.70	2973.84	15.66	213.21
7	P	20	SLE Q	-46150.50	716.42	2629.47	14.16	192.55
8	P	18	SLE R	-41410.70	501.92	1297.65	14.74	202.86
8	P	20	SLE Q	-37418.20	461.88	1149.01	13.33	183.25
9	P	18	SLE R	-41101.00	403.81	1184.94	13.93	194.19
9	P	20	SLE Q	-37133.10	373.22	1052.24	12.61	175.51
10	P	18	SLE R	-50417.50	398.90	2312.39	13.33	188.06
10	P	20	SLE Q	-45562.10	371.34	2065.47	12.07	170.08
11	P	18	SLE R	-40465.70	208.59	960.28	12.33	176.88
11	P	20	SLE Q	-36548.20	196.88	859.53	11.17	160.04
12	P	18	SLE R	-39994.80	112.50	930.24	11.63	169.47
12	P	20	SLE Q	-36117.00	110.21	837.67	10.55	153.44
13	P	18	SLE R	-49829.00	17.10	1650.96	10.99	162.90
13	P	20	SLE Q	-44973.70	26.26	1501.49	9.98	147.60
14	P	18	SLE R	-37938.30	-69.03	1568.28	11.88	173.09
14	P	20	SLE Q	-34248.80	-52.66	1424.10	10.68	155.92
15	T	18	SLE R	-35911.00	-228.81	2903.93	14.35	202.16
15	T	20	SLE Q	-32399.40	-194.93	2641.07	12.92	182.23

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	34008.10	2.50	57532.10	93404.60	1.692
2	P	9	29901.40	2.50	43932.80	69552.60	1.469
3	P	9	29811.00	2.50	43932.80	69552.60	1.474
4	P	9	34008.10	2.50	57532.10	93316.60	1.692
5	P	9	29540.00	2.50	43932.80	69552.60	1.487
6	P	9	29464.80	2.50	43932.80	69552.60	1.491
7	P	9	34008.20	2.50	57532.10	93228.60	1.692
8	P	9	29504.80	2.50	43932.80	69552.60	1.489
9	P	9	29615.10	2.50	43932.80	69552.60	1.483
10	P	9	34008.10	2.50	57532.10	93140.60	1.692
11	P	9	29559.50	2.50	43932.80	69552.60	1.486
12	P	9	29010.80	2.50	43932.80	69552.60	1.514
13	P	9	34008.10	2.50	57532.10	93052.60	1.692
14	P	1	23059.20	2.50	43932.80	69552.60	1.905
15	P	1	14676.00	2.50	43932.80	69617.70	2.994

Numero del nucleo n. 138

Nodi: -7795 -7796 -7797 -7798 -86 -4249 -4248 -111

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-78227.30	616.74	6812.07	-1476950.00	27860.00	306475.00	18.880
2	P	17	SLU	-68650.70	484.60	4277.01	-1253160.00	24973.10	212692.00	18.254
3	P	17	SLU	-77309.00	498.59	5608.52	-1476950.00	25766.70	317156.00	19.105

Relazione di calcolo

4	P	17	SLU	-67733.50	380.60	3161.81	-1253160.00	24964.00	212614.00	18.501
5	P	17	SLU	-76390.80	380.43	4404.97	-1476950.00	25761.90	317040.00	19.334
6	P	17	SLU	-66437.50	278.65	2400.30	-1253160.00	24951.10	212503.00	18.862
7	P	17	SLU	-65788.30	226.84	2020.10	-1253160.00	24944.60	212448.00	19.048
8	P	17	SLU	-9929.75	30.20	32.54	-188392.00	3938.81	4253.45	18.973
9	P	17	SLU	-65083.70	173.00	1680.39	-1253160.00	21777.00	226421.00	19.255
10	P	17	SLU	-64212.30	114.37	1475.90	-1253160.00	19243.40	236252.00	19.516
11	P	17	SLU	-11353.70	39.53	106.63	-188392.00	2063.36	5465.74	16.593
12	P	17	SLU	-62741.50	45.52	1735.05	-1253160.00	8650.24	269572.00	19.973
13	P	17	SLU	-59878.00	-68.56	3154.02	-1253160.00	-4216.21	278007.00	20.928

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	7592.03	6083.72	197527.00	7592.03	7711.47	218734.00	1.108
2	P	5	SND	66821.40	4603.06	115394.00	66821.40	5229.30	142472.00	1.233
3	P	5	SND	8298.38	4803.77	164757.00	8298.38	7705.79	218461.00	1.326
4	P	5	SND	56235.20	3513.97	94884.50	56235.20	5277.31	146325.00	1.539
5	P	5	SND	9004.74	3524.88	132033.00	9004.74	7698.72	218149.00	1.653
6	P	5	SND	46036.60	2418.36	74496.10	46036.60	5344.54	149944.00	2.007
7	P	5	SND	41004.20	1866.92	64281.00	41004.20	5376.00	151694.00	2.353
8	P	5	SND	16074.80	308.85	-572.99	16074.80	726.16	-2075.30	2.395
9	P	5	SND	35829.00	1309.17	54269.30	35829.00	3885.18	158496.00	2.909
10	P	5	SND	30384.40	742.09	44759.40	30384.40	3902.67	160460.00	3.570
11	P	13	SND	-3065.06	-168.94	-1040.05	-3065.06	-527.53	-3432.98	3.296
12	P	5	SND	22169.20	225.89	38426.20	22169.20	1723.55	170562.00	4.421
13	P	5	SND	7756.23	318.96	40424.90	7756.23	2777.53	172356.00	4.258

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-56809.20	461.55	4939.88	12.33	174.27
1	P	20	SLE Q	-51010.60	431.87	5880.01	11.86	167.46
2	P	18	SLE R	-49825.90	360.78	3106.07	12.02	170.46
2	P	20	SLE Q	-45237.10	338.51	3554.79	11.48	162.40
3	P	18	SLE R	-56102.80	369.57	4059.08	11.47	163.52
3	P	20	SLE Q	-50304.20	345.63	4661.33	10.86	154.45
4	P	18	SLE R	-49129.00	280.00	2286.52	11.02	157.68
4	P	20	SLE Q	-44327.10	262.19	2586.42	10.34	147.77
5	P	18	SLE R	-55396.50	277.59	3178.28	10.62	152.77
5	P	20	SLE Q	-49597.90	259.38	3442.66	9.85	141.43
6	P	18	SLE R	-48151.00	200.69	1729.34	10.15	146.82
6	P	20	SLE Q	-43196.50	187.70	1823.00	9.33	134.67
7	P	18	SLE R	-47661.10	160.43	1451.22	9.72	141.37
7	P	20	SLE Q	-42633.60	149.87	1439.26	8.82	128.08
8	P	18	SLE R	-7204.04	20.89	23.40	11.61	134.06
8	P	20	SLE Q	-6497.90	19.44	26.13	10.66	121.53
9	P	18	SLE R	-47132.90	118.72	1201.04	9.29	136.05
9	P	20	SLE Q	-42040.50	110.58	1076.96	8.31	121.57
10	P	18	SLE R	-46488.10	73.59	1045.35	8.90	131.23
10	P	20	SLE Q	-41353.90	67.84	790.48	7.83	115.45
11	P	18	SLE R	-8211.22	26.39	75.78	14.94	158.00
11	P	20	SLE Q	-7555.60	25.89	73.66	13.92	146.13
12	P	18	SLE R	-45419.40	21.24	1217.33	8.63	128.31
12	P	20	SLE Q	-40276.40	17.88	803.43	7.46	111.02
13	T	18	SLE R	-43058.40	-167.97	2329.96	9.58	138.60
13	T	20	SLE Q	-37955.40	-165.64	1538.87	8.15	117.73

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	49727.60	2.50	76663.40	121370.00	1.542
2	P	5	46896.80	2.50	65138.50	103125.00	1.389
3	P	5	49727.60	2.50	76663.40	121370.00	1.542
4	P	5	46859.40	2.50	65138.50	103125.00	1.390
5	P	5	49727.60	2.50	76663.40	121370.00	1.542
6	P	5	46884.30	2.50	65138.50	103125.00	1.389
7	P	5	46882.50	2.50	65138.50	103125.00	1.389
8	P	5	2927.92	2.50	9358.19	14815.50	3.196
9	P	5	46799.70	2.50	65138.50	103125.00	1.392
10	P	5	46390.70	2.50	65138.50	103125.00	1.404
11	P	5	6357.73	2.50	9358.20	15174.40	1.472
12	P	5	43382.40	2.50	65138.50	103125.00	1.502
13	P	5	29061.30	2.50	65138.50	103125.00	2.241

Numero del nucleo n. 139

Relazione di calcolo

Nodi: -394 -6071 -395 -396 -5948 -397

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	TP	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-91146.00	-174.81	-3311.98	-690455.00	-5457.35	-91987.30	7.575
2	P	17	SLU	-90929.40	-10.47	-2839.37	-690455.00	-785.39	-98266.30	7.593
3	P	17	SLU	-90712.80	153.88	-2366.76	-690455.00	5457.23	-91910.40	7.611
4	P	17	SLU	-90496.20	318.22	-1894.16	-690455.00	12350.10	-73647.10	7.630
5	P	17	SLU	-90279.60	482.56	-1421.56	-690455.00	17616.10	-53186.60	7.648
6	P	17	SLU	-90063.10	646.90	-948.95	-690455.00	21736.60	-32147.30	7.666
7	P	17	SLU	-89846.50	811.24	-476.36	-690455.00	23191.40	-13839.30	7.685
8	P	17	SLU	-89629.90	975.58	-3.77	-690455.00	23457.30	-0.00	7.703
9	P	17	SLU	-89413.30	1139.93	468.84	-690455.00	23248.10	9720.66	7.722
10	P	17	SLU	-89196.70	1304.26	941.43	-690455.00	23015.10	16746.60	7.741
11	P	17	SLU	-88980.10	1468.60	1414.03	-690455.00	22704.40	21604.30	7.760
12	P	17	SLU	-88763.50	1632.95	1886.64	-690455.00	22362.10	25716.00	7.779
13	P	17	SLU	-88547.00	1797.29	2359.23	-690455.00	22076.80	29091.50	7.798
14	P	17	SLU	-88330.40	1961.63	2831.83	-690455.00	21762.40	31396.20	7.817
15	P	17	SLU	-88113.80	2125.97	3304.45	-690455.00	21381.20	33783.10	7.836
16	P	17	SLU	-65783.60	-4823.81	-2875.21	-65783.60	-21185.90	-12434.80	4.374

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	1	SND	-42204.10	3591.42	-49535.90	-42204.10	3704.04	-55052.90	1.111
2	P	1	SND	-42037.50	3366.97	-46334.00	-42037.50	3701.87	-54994.90	1.186
3	P	1	SND	-41870.90	3142.61	-43132.90	-41870.90	3699.70	-54936.80	1.273
4	P	1	SND	-41704.30	2918.40	-39932.90	-41704.30	3699.48	-54907.80	1.374
5	P	1	SND	-41537.70	2694.38	-36734.00	-41537.70	3697.30	-54849.70	1.493
6	P	1	SND	-41371.10	2470.64	-33536.60	-41371.10	3695.12	-54791.70	1.633
7	P	1	SND	-41204.50	2247.36	-30341.20	-41204.50	3694.90	-54762.60	1.804
8	P	5	SND	-40698.70	2037.45	-26663.00	-40698.70	4375.19	-53291.20	2.000
9	P	9	SND	-41788.70	1546.74	24304.00	-41788.70	3698.60	54907.80	2.260
10	P	9	SND	-41622.10	1389.31	21753.40	-41622.10	3698.38	54878.70	2.523
11	P	9	SND	-41455.50	1242.08	19209.70	-41455.50	3696.20	54820.70	2.854
12	P	9	SND	-41288.90	1155.15	16676.50	-41288.90	3694.02	54762.70	3.283
13	P	9	SND	-41122.30	1365.15	14161.10	-41122.30	5177.34	51780.30	3.658
14	P	9	SND	-40955.70	1741.16	11678.00	-40955.70	6858.12	48209.70	4.124
15	P	13	SND	-40449.80	2170.65	9101.31	-40449.80	9988.90	40906.50	4.500
16	P	13	SND	-27962.00	-5837.54	10680.40	-27962.00	-12925.50	23372.40	2.194

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1	P	18	SLE R	-66029.30	-102.39	-2510.69	23.99	352.10
1	P	20	SLE Q	-60943.80	-10.44	-2364.14	21.66	320.42
2	P	18	SLE R	-65862.70	10.56	-2161.96	22.78	337.60
2	P	20	SLE Q	-60777.20	81.66	-2047.03	21.58	317.46
3	P	18	SLE R	-65696.00	123.51	-1813.23	22.93	336.72
3	P	20	SLE Q	-60610.60	173.76	-1729.93	21.64	315.88
4	P	18	SLE R	-65529.40	236.46	-1464.51	23.07	335.83
4	P	20	SLE Q	-60444.00	265.86	-1412.82	21.69	314.30
5	P	18	SLE R	-65362.80	349.40	-1115.79	23.22	334.94
5	P	20	SLE Q	-60277.40	357.96	-1095.72	21.75	312.73
6	P	18	SLE R	-65196.20	462.35	-767.06	23.36	334.06
6	P	20	SLE Q	-60110.80	450.06	-778.62	21.81	311.15
7	P	18	SLE R	-65029.60	575.29	-418.34	23.50	333.17
7	P	20	SLE Q	-59944.20	542.16	-461.52	21.86	309.57
8	P	18	SLE R	-64863.00	688.24	-69.63	23.65	332.28
8	P	20	SLE Q	-59777.60	634.26	-144.43	21.92	307.99
9	P	18	SLE R	-64696.40	801.19	279.10	24.68	343.66
9	P	20	SLE Q	-59611.00	726.36	172.68	22.52	314.00
10	P	18	SLE R	-64529.80	914.13	627.82	25.92	358.09
10	P	20	SLE Q	-59444.40	818.46	489.77	23.58	326.35
11	P	18	SLE R	-64363.20	1027.08	976.53	27.17	372.52
11	P	20	SLE Q	-59277.80	910.56	806.87	24.64	338.70
12	P	18	SLE R	-64196.60	1140.03	1325.26	28.42	386.95
12	P	20	SLE Q	-59111.20	1002.66	1123.97	25.70	351.05
13	P	18	SLE R	-64030.00	1252.97	1673.98	29.66	401.38
13	P	20	SLE Q	-58944.60	1094.76	1441.07	26.76	363.40
14	P	18	SLE R	-63863.40	1365.92	2022.70	30.91	415.81
14	P	20	SLE Q	-58778.00	1186.85	1758.17	27.82	375.75
15	T	18	SLE R	-63530.20	1591.81	2720.17	33.41	444.67

Relazione di calcolo

15	T	20	SLE Q	-58444.70	1371.05	2392.38	29.94	400.46
16	P	18	SLE R	-48070.90	-3368.00	-2004.81	42.23	497.17
16	P	20	SLE Q	-44313.60	-2975.47	-1624.58	37.23	440.98

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	13235.50	2.50	31244.40	83593.60	2.361
2	P	1	13235.50	2.50	31244.40	83568.70	2.361
3	P	1	13235.50	2.50	31244.40	83543.80	2.361
4	P	1	13235.50	2.50	31244.40	83518.90	2.361
5	P	1	13235.50	2.50	31244.40	83494.00	2.361
6	P	1	13235.50	2.50	31244.40	83469.10	2.361
7	P	1	13235.50	2.50	31244.40	83444.20	2.361
8	P	1	13235.50	2.50	31244.40	83419.30	2.361
9	P	1	13235.50	2.50	31244.40	83394.40	2.361
10	P	1	13235.50	2.50	31244.40	83369.60	2.361
11	P	1	13235.50	2.50	31244.40	83344.70	2.361
12	P	1	13235.50	2.50	31244.40	83319.80	2.361
13	P	1	13235.50	2.50	31244.40	83294.90	2.361
14	P	1	13235.50	2.50	31244.40	83270.00	2.361
15	P	1	13235.50	2.50	31244.40	83245.10	2.361

Numero del nucleo n. 140

Nodi: -7641 -7642 -7643 -7644 -79 -5023 -5022 -104

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	TP	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-79116.20	-397.44	5606.99	-1406150.00	-21329.40	309662.00	17.773
2	P	17	SLU	-68796.60	-306.58	3696.80	-1182350.00	-18368.90	208400.00	17.186
3	P	17	SLU	-78197.90	-326.24	4570.46	-1406150.00	-21326.90	309528.00	17.982
4	P	17	SLU	-68082.40	-249.84	2564.00	-1182350.00	-20821.80	198557.00	17.366
5	P	17	SLU	-77279.70	-255.03	3533.94	-1406150.00	-21324.90	309389.00	18.195
6	P	17	SLU	-66865.20	-189.26	1900.31	-1182350.00	-20814.60	198390.00	17.683
7	P	17	SLU	-66252.80	-157.88	1572.68	-1182350.00	-20864.40	198414.00	17.846
8	P	17	SLU	-10300.20	-23.52	26.29	-188392.00	-3966.35	4357.84	18.290
9	P	17	SLU	-65602.10	-124.71	1271.78	-1182350.00	-20860.60	198324.00	18.023
10	P	17	SLU	-64825.30	-87.31	1072.66	-1182350.00	-18412.60	207823.00	18.239
11	P	17	SLU	-11455.20	-36.49	91.43	-188392.00	-2177.60	5509.48	16.446
12	P	17	SLU	-63528.90	-40.54	1272.48	-1182350.00	-5787.83	245139.00	18.611
13	P	17	SLU	-60959.70	51.79	2527.50	-1182350.00	5739.09	244552.00	19.396

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	-7817.35	5332.50	163997.00	-7817.35	7472.94	205759.00	1.255
2	P	5	SND	53393.70	4025.17	95965.40	53393.70	4623.05	118624.00	1.232
3	P	5	SND	-7111.00	4216.57	136819.00	-7111.00	7468.98	205480.00	1.502
4	P	5	SND	42505.80	3076.78	78812.50	42505.80	4705.75	122635.00	1.548
5	P	5	SND	-6404.63	3101.63	109674.00	-6404.63	7464.98	205202.00	1.871
6	P	5	SND	32102.10	2122.29	61891.40	32102.10	4774.99	126498.00	2.029
7	P	5	SND	26968.90	1642.91	53413.50	26968.90	4801.25	128431.00	2.385
8	P	13	SND	13266.10	-310.84	-573.07	13266.10	-818.30	-2274.85	2.696
9	P	13	SND	22724.10	-1324.89	44943.10	22724.10	-3482.44	134114.00	2.956
10	P	5	SND	16219.70	673.87	37144.60	16219.70	3483.77	136537.00	3.644
11	P	13	SND	-2328.25	-224.44	-862.12	-2328.25	-837.37	-3279.30	3.799
12	P	13	SND	8880.56	205.76	31750.30	8880.56	1494.80	145164.00	4.544
13	P	5	SND	-6333.35	354.48	33472.50	-6333.35	2468.52	148074.00	4.424

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _t <daN/cm²>
1	P	18	SLE R	-57754.50	-304.88	4020.08	11.93	171.65
1	P	20	SLE Q	-53243.20	-262.94	4085.70	11.13	160.50
2	P	18	SLE R	-50172.80	-233.61	2659.96	11.59	167.31
2	P	20	SLE Q	-46377.70	-202.52	2646.86	10.80	156.09
3	P	18	SLE R	-57048.10	-246.73	3273.95	11.23	162.56
3	P	20	SLE Q	-52536.80	-215.81	3288.57	10.45	151.39
4	P	18	SLE R	-49629.40	-186.92	1835.66	10.70	155.50
4	P	20	SLE Q	-45765.30	-165.28	1834.60	9.94	144.60

Relazione di calcolo

5	P	18	SLE R	-56341.80	-188.58	2527.83	10.53	153.47
5	P	20	SLE Q	-51830.50	-168.69	2491.43	9.76	142.27
6	P	18	SLE R	-48714.30	-137.42	1358.03	9.99	146.23
6	P	20	SLE Q	-44825.20	-125.21	1327.62	9.24	135.32
7	P	18	SLE R	-48254.10	-111.89	1122.24	9.63	141.53
7	P	20	SLE Q	-44353.80	-104.41	1076.03	8.89	130.61
8	P	18	SLE R	-7514.37	-16.27	18.70	11.83	138.25
8	P	20	SLE Q	-6912.06	-15.65	18.64	10.95	127.47
9	P	18	SLE R	-47767.90	-85.08	904.46	9.27	136.96
9	P	20	SLE Q	-43858.90	-82.36	840.55	8.54	126.02
10	P	18	SLE R	-47194.20	-55.28	757.22	8.94	132.79
10	P	20	SLE Q	-43285.20	-57.40	668.70	8.21	121.78
11	P	18	SLE R	-8321.07	-24.31	64.58	14.71	158.71
11	P	20	SLE Q	-7693.80	-24.87	61.12	13.71	147.45
12	P	18	SLE R	-46254.90	-18.89	890.51	8.73	130.33
12	P	20	SLE Q	-42370.80	-26.02	757.64	7.99	119.12
13	T	18	SLE R	-44111.30	139.20	1898.59	9.60	139.99
13	T	20	SLE Q	-40310.30	120.62	1620.85	8.67	126.48

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	41223.50	2.50	49123.60	122697.00	1.192
2	P	5	38949.60	2.50	41747.70	103271.00	1.072
3	P	5	41223.50	2.50	49123.60	122591.00	1.192
4	P	5	38853.00	2.50	41747.70	103271.00	1.075
5	P	5	41223.50	2.50	49123.60	122484.00	1.192
6	P	5	38863.50	2.50	41747.70	103271.00	1.074
7	P	5	38865.70	2.50	41747.70	103271.00	1.074
8	P	5	2414.99	2.50	6048.25	14961.50	2.504
9	P	5	38808.70	2.50	41747.70	103271.00	1.076
10	P	5	38486.50	2.50	41747.70	103271.00	1.085
11	P	5	5257.03	2.50	6048.26	15289.10	1.151
12	P	5	35975.80	2.50	41747.70	103271.00	1.160
13	P	13	24379.50	2.50	41747.70	104113.00	1.712

Numero del nucleo n. 141

Nodi: -7133 -7132 -7131 -7130 -121 -7117 -146 -7068 -7067 -7066

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-64332.80	3731.71	3800.55	-64332.80	85397.50	87276.10	22.925
2	P	17	SLU	-63940.40	3333.03	3563.84	-63940.40	85306.50	92343.60	25.764
3	P	17	SLU	-63548.10	2934.36	3327.14	-63548.10	85180.00	96508.20	29.016
4	P	17	SLU	-63155.80	2535.69	3090.43	-1928460.00	85054.20	103387.00	30.535
5	P	17	SLU	-62763.50	2137.01	2853.73	-1928460.00	84813.10	112778.00	30.726
6	P	17	SLU	-62371.20	1738.33	2617.03	-1928460.00	84457.40	126560.00	30.919
7	P	17	SLU	-61978.90	1339.66	2380.33	-1928460.00	83823.30	145982.00	31.115
8	P	17	SLU	-61586.60	941.00	2143.63	-1928460.00	80166.40	186394.00	31.313
9	P	17	SLU	-61194.20	542.31	1906.92	-1928460.00	72174.00	258180.00	31.514
10	P	17	SLU	-60801.90	143.64	1670.22	-1928460.00	42847.00	478613.00	31.717
11	P	17	SLU	-60409.60	-255.03	1433.53	-1928460.00	-62109.80	338271.00	31.923
12	P	17	SLU	-60017.30	-653.71	1196.83	-1928460.00	-83094.70	154460.00	32.132
13	P	17	SLU	-59625.00	-1052.38	960.13	-1928460.00	-85176.10	77172.20	32.343
14	P	17	SLU	-59232.70	-1451.05	723.43	-1928460.00	-85317.00	42762.50	32.557
15	P	17	SLU	-58840.30	-1849.74	486.73	-1928460.00	-85356.60	21776.90	32.775
16	P	17	SLU	-44382.20	1346.61	2565.38	-1928460.00	82298.40	155294.00	43.451

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	9	SND	-17233.50	8107.25	401594.00	-17233.50	9087.29	406719.00	1.013
2	P	9	SND	-16931.70	7276.60	379175.00	-16931.70	9085.50	406588.00	1.072
3	P	9	SND	-16630.00	6445.98	356762.00	-16630.00	9083.72	406457.00	1.139
4	P	9	SND	-16328.20	5615.40	334357.00	-16328.20	9081.92	406326.00	1.215
5	P	9	SND	-16026.40	4784.88	311960.00	-16026.40	9080.13	406195.00	1.302
6	P	9	SND	-15724.60	3954.42	289575.00	-15724.60	9078.34	406064.00	1.402
7	P	9	SND	-15422.90	3124.14	267205.00	-15422.90	6270.82	419801.00	1.571
8	P	9	SND	-15121.10	2294.18	244852.00	-15121.10	6270.36	419668.00	1.714
9	P	9	SND	-14819.30	1464.97	222522.00	-14819.30	6269.88	419535.00	1.886
10	P	9	SND	-14517.50	639.08	200224.00	-14517.50	4446.23	428822.00	2.142

Relazione di calcolo

11	P	9	SND	-14215.80	-273.59	177968.00	-14215.80	3089.34	435858.00	2.449
12	P	1	SND	-12201.70	-1153.87	-154242.00	-12201.70	-6265.68	-418377.00	2.713
13	P	1	SND	-11900.00	-2087.80	-132476.00	-11900.00	-9061.80	-404362.00	3.053
14	P	9	SND	-13310.40	-2696.22	111698.00	-13310.40	-9067.56	405016.00	3.626
15	P	9	SND	-13008.60	-3526.27	89971.10	-13008.60	-14326.50	380507.00	4.229
16	P	9	SND	-14273.80	6789.85	135472.00	-14273.80	19160.20	359181.00	2.652

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-46864.00	2707.94	2790.06	13.33	159.25
1	P	20	SLE Q	-42636.60	2478.83	2637.50	12.20	145.80
2	P	18	SLE R	-46562.20	2418.52	2614.15	12.40	150.20
2	P	20	SLE Q	-42334.80	2214.49	2467.22	11.35	137.42
3	P	18	SLE R	-46260.40	2129.09	2438.23	11.51	141.38
3	P	20	SLE Q	-42033.00	1950.16	2296.95	10.53	129.25
4	P	18	SLE R	-45958.70	1839.66	2262.32	10.66	132.95
4	P	20	SLE Q	-41731.20	1685.82	2126.68	9.74	121.42
5	P	18	SLE R	-45656.90	1550.24	2086.41	9.83	124.70
5	P	20	SLE Q	-41429.50	1421.48	1956.41	8.98	113.81
6	P	18	SLE R	-45355.10	1260.81	1910.50	9.00	116.47
6	P	20	SLE Q	-41127.70	1157.14	1786.13	8.22	106.19
7	P	18	SLE R	-45053.30	971.39	1734.59	8.17	108.23
7	P	20	SLE Q	-40825.90	892.81	1615.86	7.45	98.58
8	P	18	SLE R	-44751.50	681.96	1558.68	7.34	99.99
8	P	20	SLE Q	-40524.10	628.47	1445.60	6.69	90.96
9	P	18	SLE R	-44449.70	392.53	1382.76	6.51	91.75
9	P	20	SLE Q	-40222.30	364.13	1275.32	5.92	83.35
10	P	18	SLE R	-44148.00	103.11	1206.86	5.68	83.51
10	P	20	SLE Q	-39920.60	99.79	1105.05	5.16	75.73
11	P	18	SLE R	-43846.20	-186.31	1030.95	5.80	84.16
11	P	20	SLE Q	-39618.80	-164.54	934.78	5.24	75.97
12	P	18	SLE R	-43544.40	-475.75	855.04	6.45	89.72
12	P	20	SLE Q	-39317.00	-428.88	764.51	5.82	80.96
13	P	18	SLE R	-43242.60	-765.17	679.13	7.10	95.29
13	P	20	SLE Q	-39015.20	-693.22	594.25	6.40	85.95
14	P	18	SLE R	-42940.80	-1054.59	503.22	7.74	100.85
14	P	20	SLE Q	-38713.40	-957.55	423.98	6.99	90.94
15	T	18	SLE R	-42337.30	-1633.45	151.41	9.03	111.98
15	T	20	SLE Q	-38109.90	-1486.23	83.44	8.15	100.93
16	P	18	SLE R	-32588.70	979.70	1814.21	6.80	87.51
16	P	20	SLE Q	-29555.30	872.87	1621.92	6.12	78.88

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	92722.70	2.50	134530.00	144599.00	1.451
2	P	9	92722.70	2.50	134530.00	144553.00	1.451
3	P	9	92722.70	2.50	134530.00	144508.00	1.451
4	P	9	92722.70	2.50	134530.00	144462.00	1.451
5	P	9	92722.70	2.50	134530.00	144416.00	1.451
6	P	9	92722.70	2.50	134530.00	144370.00	1.451
7	P	9	92722.70	2.50	134530.00	144325.00	1.451
8	P	9	92722.70	2.50	134530.00	144279.00	1.451
9	P	9	92722.70	2.50	134530.00	144233.00	1.451
10	P	9	92722.70	2.50	134530.00	144188.00	1.451
11	P	9	92722.70	2.50	134530.00	144142.00	1.451
12	P	9	92722.70	2.50	134530.00	144096.00	1.451
13	P	9	92722.70	2.50	134530.00	144050.00	1.451
14	P	9	92722.70	2.50	134530.00	144005.00	1.451
15	P	9	92722.70	2.50	134530.00	143959.00	1.451

Numero del nucleo n. 142

Nodi: -367 -6891 -6890 -6889 -392

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-58754.90	969.94	-5888.80	-824377.00	16393.10	-97323.30	14.031
2	P	17	SLU	-58558.00	952.88	-5519.23	-824377.00	16391.20	-97311.40	14.078
3	P	17	SLU	-58361.10	935.83	-5149.66	-824377.00	17305.60	-94322.20	14.126

Relazione di calcolo

4	P	17	SLU	-58164.20	918.77	-4780.10	-824377.00	17304.10	-94312.20	14.173
5	P	17	SLU	-57967.30	901.72	-4410.55	-824377.00	18257.10	-91112.00	14.221
6	P	17	SLU	-57770.40	884.66	-4040.99	-824377.00	19240.00	-87693.00	14.270
7	P	17	SLU	-57573.50	867.61	-3671.46	-824377.00	20272.00	-84057.20	14.319
8	P	17	SLU	-57376.60	850.56	-3301.92	-824377.00	21366.40	-80158.30	14.368
9	P	17	SLU	-57179.70	833.50	-2932.42	-824377.00	21940.40	-78088.00	14.417
10	P	17	SLU	-56982.80	816.45	-2562.90	-824377.00	23156.30	-73681.20	14.467
11	P	17	SLU	-56785.90	799.39	-2193.38	-824377.00	24478.10	-68832.60	14.517
12	P	17	SLU	-56589.00	782.34	-1823.84	-824377.00	26316.50	-61860.90	14.568
13	P	17	SLU	-56392.20	765.28	-1454.33	-824377.00	28335.50	-53844.10	14.619
14	P	17	SLU	-56195.30	748.23	-1084.82	-824377.00	30550.30	-44410.20	14.670
15	P	17	SLU	-55998.40	731.17	-715.29	-824377.00	32948.60	-32230.00	14.721
16	P	17	SLU	-38919.80	-2361.43	5407.18	-38919.80	-25744.60	60224.90	11.101

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	1	SND	-19379.90	2828.32	-62473.40	-19379.90	3689.66	-78883.60	1.263
2	P	1	SND	-19228.40	2626.08	-58518.00	-19228.40	3689.85	-78860.50	1.348
3	P	1	SND	-19076.90	2423.98	-54563.40	-19076.90	3688.96	-78814.10	1.445
4	P	1	SND	-18925.50	2222.05	-50610.00	-18925.50	3689.15	-78790.90	1.557
5	P	1	SND	-18774.00	2020.37	-46657.90	-18774.00	3688.25	-78744.60	1.688
6	P	1	SND	-18622.60	1819.06	-42707.40	-18622.60	3688.44	-78721.40	1.844
7	P	1	SND	-18471.10	1618.34	-38759.20	-18471.10	3687.54	-78675.10	2.030
8	P	1	SND	-18319.60	1418.64	-34813.80	-18319.60	3687.73	-78651.90	2.260
9	P	1	SND	-18168.20	1220.89	-30872.20	-18168.20	2599.40	-81245.20	2.631
10	P	1	SND	-18016.70	1027.72	-26936.30	-18016.70	2599.10	-81221.50	3.015
11	P	1	SND	-17865.30	849.31	-23008.80	-17865.30	2598.03	-81174.00	3.527
12	P	1	SND	-17713.80	749.30	-19094.40	-17713.80	2597.72	-81150.30	4.249
13	P	1	SND	-17562.30	875.26	-15203.40	-17562.30	4398.47	-76903.70	5.058
14	P	1	SND	-17410.90	1100.87	-11358.30	-17410.90	6834.02	-71731.20	6.314
15	P	1	SND	-17259.40	1344.64	-7622.55	-17259.40	11406.30	-62314.40	8.184
16	P	9	SND	-15502.90	-3320.44	19661.60	-15502.90	-10515.10	63666.20	3.236

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-42579.90	723.77	-4209.25	21.65	293.43
1	P	20	SLE Q	-39088.60	619.74	-4170.68	20.08	273.27
2	P	18	SLE R	-42428.40	707.22	-3944.06	21.11	286.40
2	P	20	SLE Q	-38937.20	612.72	-3894.66	19.58	266.55
3	P	18	SLE R	-42277.00	690.66	-3678.88	20.57	279.37
3	P	20	SLE Q	-38785.70	605.70	-3618.65	19.08	259.82
4	P	18	SLE R	-42125.50	674.11	-3413.71	20.03	272.33
4	P	20	SLE Q	-38634.20	598.68	-3342.65	18.58	253.09
5	P	18	SLE R	-41974.10	657.56	-3148.53	19.49	265.30
5	P	20	SLE Q	-38482.80	591.67	-3066.65	18.08	246.36
6	P	18	SLE R	-41822.60	641.00	-2883.36	18.95	258.27
6	P	20	SLE Q	-38331.30	584.65	-2790.65	17.58	239.64
7	P	18	SLE R	-41671.20	624.45	-2618.20	18.41	251.24
7	P	20	SLE Q	-38179.90	577.63	-2514.66	17.07	232.91
8	P	18	SLE R	-41519.70	607.89	-2353.05	17.87	244.21
8	P	20	SLE Q	-38028.40	570.61	-2238.68	16.57	226.18
9	P	18	SLE R	-41368.20	591.34	-2087.91	17.33	237.18
9	P	20	SLE Q	-37877.00	563.60	-1962.71	16.07	219.46
10	P	18	SLE R	-41216.80	574.79	-1822.76	16.79	230.15
10	P	20	SLE Q	-37725.50	556.58	-1686.73	15.57	212.73
11	P	18	SLE R	-41065.30	558.24	-1557.61	16.25	223.12
11	P	20	SLE Q	-37574.00	549.56	-1410.76	15.07	206.00
12	P	18	SLE R	-40913.90	541.68	-1292.46	15.71	216.09
12	P	20	SLE Q	-37422.60	542.54	-1134.77	14.57	199.28
13	P	18	SLE R	-40762.40	525.13	-1027.31	15.17	209.06
13	P	20	SLE Q	-37271.10	535.53	-858.80	14.07	192.55
14	P	18	SLE R	-40611.00	508.57	-762.17	14.63	202.03
14	P	20	SLE Q	-37119.70	528.51	-582.83	13.57	185.82
15	P	18	SLE R	-40459.50	492.02	-497.02	14.09	195.00
15	P	20	SLE Q	-36968.20	521.49	-306.84	13.07	179.10
16	P	18	SLE R	-28517.10	-1641.74	3823.91	24.07	292.51
16	P	20	SLE Q	-26080.10	-1632.10	3395.12	22.83	274.45

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	16345.90	2.50	28176.00	72570.40	1.724
2	P	1	16345.90	2.50	28176.00	72548.00	1.724
3	P	1	16345.90	2.50	28176.00	72525.50	1.724
4	P	1	16345.90	2.50	28176.00	72503.10	1.724
5	P	1	16345.90	2.50	28176.00	72480.60	1.724

Relazione di calcolo

6	P	1	16345.90	2.50	28176.00	72458.20	1.724
7	P	1	16345.90	2.50	28176.00	72435.80	1.724
8	P	1	16345.90	2.50	28176.00	72413.30	1.724
9	P	1	16345.90	2.50	28176.00	72390.90	1.724
10	P	1	16345.90	2.50	28176.00	72368.40	1.724
11	P	1	16345.90	2.50	28176.00	72346.00	1.724
12	P	1	16345.90	2.50	28176.00	72323.50	1.724
13	P	1	16345.90	2.50	28176.00	72301.10	1.724
14	P	1	16345.90	2.50	28176.00	72278.60	1.724
15	P	1	16345.90	2.50	28176.00	72256.20	1.724

Numero del nucleo n. 220

Nodi: -37823 -37728 -37729 -37724 -37725 -37675

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-49979.80	2715.79	-779.69	-49979.80	18811.40	-5332.35	6.920
2	P	17	SLU	-49781.90	2320.14	-664.07	-49781.90	18795.30	-5335.39	8.096
3	P	17	SLU	-49583.90	1924.49	-548.45	-49583.90	18779.10	-5338.44	9.756
4	P	17	SLU	-49386.00	1528.84	-432.83	-49386.00	18763.00	-5341.48	12.278
5	P	17	SLU	-49188.00	1133.19	-317.21	-626510.00	18746.90	-5344.51	12.737
6	P	17	SLU	-48990.10	737.54	-201.59	-626510.00	18723.10	-5124.54	12.789
7	P	17	SLU	-48792.20	341.90	-85.97	-626510.00	18736.00	-4805.00	12.840
8	P	17	SLU	-48594.20	-53.77	29.65	-626510.00	-18663.90	10262.00	12.893
9	P	17	SLU	-48396.30	-449.42	145.27	-626510.00	-18703.60	6098.89	12.945
10	P	17	SLU	-48198.30	-845.07	260.89	-626510.00	-18678.80	5758.03	12.999
11	P	17	SLU	-48000.40	-1240.72	376.51	-626510.00	-18662.70	5761.11	13.052
12	P	17	SLU	-47802.40	-1636.36	492.13	-47802.40	-18646.60	5764.19	11.422
13	T	17	SLU	-47406.60	-2427.66	723.38	-47406.60	-18601.80	5371.68	7.643
14	P	17	SLU	-28721.20	1431.04	-94.94	-28721.20	16742.40	-1063.45	11.697

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	-27276.40	3878.78	-35598.60	-27276.40	4227.92	-41079.10	1.153
2	P	13	SND	-27124.10	3299.11	-30489.80	-27124.10	4227.58	-41052.60	1.346
3	P	13	SND	-26971.80	2719.57	-25395.50	-26971.80	4224.55	-40999.90	1.614
4	P	13	SND	-26819.60	2140.31	-20326.10	-26819.60	4224.22	-40973.50	2.015
5	P	13	SND	-26667.30	1561.62	-15305.40	-26667.30	4221.18	-40920.80	2.674
6	P	13	SND	-26515.00	984.63	-10399.80	-26515.00	3613.04	-42029.20	4.038
7	P	13	SND	-26362.80	418.38	-5868.96	-26362.80	3060.51	-42928.00	7.314
8	P	5	SND	-28026.20	-226.92	-4121.86	-28026.20	-2607.67	-44190.00	10.723
9	P	5	SND	-27873.90	-829.59	-6927.61	-27873.90	-5009.35	-39833.50	5.754
10	P	13	SND	-25906.00	-1347.69	11648.30	-25906.00	-4559.00	40092.60	3.441
11	P	13	SND	-25753.70	-1926.35	16565.70	-25753.70	-4554.78	40040.50	2.416
12	P	13	SND	-25601.50	-2505.61	21590.90	-25601.50	-4553.52	40014.30	1.853
13	T	13	SND	-25296.90	-3664.81	31758.10	-25296.90	-4545.08	39910.00	1.256
14	P	13	SND	-16258.20	1746.50	-9975.26	-16258.20	5997.23	-34253.60	3.434

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cmq>	σf <daN/cmq>
1	P	18	SLE R	-36335.90	1887.32	-536.05	26.64	329.93
1	P	20	SLE Q	-33264.20	1830.57	-555.90	25.41	312.56
2	P	18	SLE R	-36183.70	1613.30	-457.77	24.27	305.33
2	P	20	SLE Q	-33112.00	1564.53	-477.34	23.00	287.80
3	P	18	SLE R	-36031.40	1339.28	-379.48	22.07	282.40
3	P	20	SLE Q	-32959.70	1298.49	-398.78	20.82	265.06
4	P	18	SLE R	-35879.20	1065.27	-301.20	19.89	259.57
4	P	20	SLE Q	-32807.40	1032.46	-320.22	18.69	242.80
5	P	18	SLE R	-35726.90	791.25	-222.91	17.70	236.75
5	P	20	SLE Q	-32655.20	766.42	-241.66	16.56	220.55
6	P	18	SLE R	-35574.60	517.23	-144.63	15.51	213.92
6	P	20	SLE Q	-32502.90	500.38	-163.10	14.44	198.30
7	P	18	SLE R	-35422.40	243.22	-66.34	13.33	191.09
7	P	20	SLE Q	-32350.70	234.34	-84.54	12.31	176.05
8	P	18	SLE R	-35270.10	-30.81	11.94	11.63	173.40
8	P	20	SLE Q	-32198.40	-31.71	-5.98	10.64	158.43
9	P	18	SLE R	-35117.80	-304.83	90.23	13.72	194.75
9	P	20	SLE Q	-32046.10	-297.74	72.58	12.65	178.89

Relazione di calcolo

10	P	18	SLE R	-34965.60	-578.84	168.51	15.81	216.10
10	P	20	SLE Q	-31893.90	-563.78	151.14	14.68	199.66
11	P	18	SLE R	-34813.30	-852.86	246.79	17.90	237.46
11	P	20	SLE Q	-31741.60	-829.82	229.70	16.71	220.44
12	P	18	SLE R	-34661.10	-1126.88	325.08	19.98	258.81
12	P	20	SLE Q	-31589.30	-1095.86	308.26	18.74	241.22
13	T	18	SLE R	-34356.50	-1674.91	481.65	24.24	302.33
13	T	20	SLE Q	-31284.80	-1627.93	465.39	22.97	284.42
14	P	18	SLE R	-21192.60	994.30	-46.94	14.24	175.75
14	P	20	SLE Q	-19461.10	966.59	-88.60	13.59	166.73

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	21069.70	2.50	28220.30	73866.60	1.339
2	P	13	21069.70	2.50	28220.30	73844.00	1.339
3	P	13	21069.70	2.50	28220.30	73821.30	1.339
4	P	13	21069.70	2.50	28220.30	73798.60	1.339
5	P	13	21069.70	2.50	28220.30	73776.00	1.339
6	P	13	21069.70	2.50	28220.30	73753.30	1.339
7	P	13	21069.70	2.50	28220.30	73730.70	1.339
8	P	13	21069.70	2.50	28220.30	73708.00	1.339
9	P	13	21069.70	2.50	28220.30	73685.40	1.339
10	P	13	21069.70	2.50	28220.30	73662.70	1.339
11	P	13	21069.70	2.50	28220.30	73640.00	1.339
12	P	13	21069.70	2.50	28220.30	73617.40	1.339
13	P	13	21069.70	2.50	28220.30	73594.70	1.339

Numero del nucleo n. 221

Nodi: 1093 -37676 -38216 -38217 -38218 -38698

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	TP	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-53023.90	1565.73	-1057.58	-53023.90	15233.90	-10407.60	9.765
2	P	17	SLU	-47733.10	1171.35	-1288.19	-47733.10	13090.70	-14635.10	11.277
3	P	17	SLU	-46846.50	999.10	-716.75	-555339.00	13219.70	-9602.28	11.854
4	P	17	SLU	-46426.10	811.93	-406.62	-555339.00	13270.20	-6683.87	11.962
5	P	17	SLU	-52150.70	708.14	-358.64	-627514.00	15229.00	-7681.48	12.033
6	P	17	SLU	-46187.30	431.74	-135.32	-555339.00	13259.00	-4137.23	12.024
7	P	17	SLU	-46112.90	240.89	-28.00	-555339.00	13094.90	-1484.15	12.043
8	P	17	SLU	-46042.00	50.13	79.60	-555338.00	12531.30	19938.60	12.062
9	P	17	SLU	-45981.30	-140.21	179.98	-555338.00	-12803.20	16357.60	12.078
10	P	17	SLU	-5194.28	-34.65	-0.19	-72174.80	-1916.89	-19.92	13.895
11	P	17	SLU	-45865.00	-329.19	308.48	-555338.00	-13000.10	12241.60	12.108
12	P	17	SLU	-45506.80	-514.53	563.63	-555338.00	-12883.10	14128.10	12.203
13	P	17	SLU	-44692.50	-687.54	1059.96	-555338.00	-12497.10	19311.90	12.426
14	T	17	SLU	-41517.10	-948.13	3245.62	-41517.10	-9937.04	34210.50	10.536

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	13	SND	-33033.20	2925.32	-39665.30	-33033.20	3095.72	-42039.00	1.060
2	P	13	SND	-14651.80	2152.60	-25236.70	-14651.80	2443.20	-29703.00	1.177
3	P	13	SND	-17238.60	1818.88	-21122.70	-17238.60	2468.45	-30475.70	1.442
4	P	5	SND	-22442.80	1463.90	16464.50	-22442.80	2693.19	29651.80	1.801
5	P	13	SND	-32361.50	1228.84	-17524.90	-32361.50	3089.68	-41806.20	2.386
6	P	5	SND	-25775.60	696.06	9133.40	-25775.60	2338.06	31219.00	3.418
7	P	5	SND	-27014.10	317.54	5784.45	-27014.10	1636.34	32537.20	5.624
8	P	13	SND	-27940.70	175.38	3962.36	-27940.70	1640.27	32797.70	8.279
9	P	13	SND	-27121.80	-441.74	5274.42	-27121.80	-2733.19	31098.30	5.898
10	P	13	SND	4600.08	-100.57	-74.59	4600.08	-91.37	-96.20	1.076
11	P	13	SND	-25506.50	-813.21	8434.10	-25506.50	-3129.47	29954.70	3.554
12	P	13	SND	-23593.90	-1178.69	12267.70	-23593.90	-2701.53	29989.40	2.443
13	P	13	SND	-20944.20	-1519.54	16188.80	-20944.20	-2680.20	29191.20	1.803
14	T	13	SND	-10439.70	-2043.99	20239.20	-10439.70	-2579.99	25955.20	1.282

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm ² >	σ _f <daN/cm ² >
1	P	18	SLE R	-38527.90	1108.22	-705.67	21.35	279.40

Relazione di calcolo

1	P	20	SLE Q	-35216.40	1069.88	-676.95	19.98	260.28
2	P	18	SLE R	-34677.30	829.92	-884.07	21.24	280.83
2	P	20	SLE Q	-31659.30	800.62	-821.90	19.77	260.34
3	P	18	SLE R	-34036.20	708.53	-485.59	19.16	256.33
3	P	20	SLE Q	-31072.40	683.35	-459.49	17.83	237.47
4	P	18	SLE R	-33724.10	576.68	-271.50	17.51	237.86
4	P	20	SLE Q	-30778.90	555.80	-261.99	16.26	219.91
5	P	18	SLE R	-37856.30	504.15	-238.36	15.98	221.32
5	P	20	SLE Q	-34544.80	485.40	-231.63	14.79	204.13
6	P	18	SLE R	-33523.30	308.88	-88.88	14.86	209.66
6	P	20	SLE Q	-30574.30	296.70	-88.54	13.69	192.66
7	P	18	SLE R	-33454.90	174.44	-17.66	13.59	196.24
7	P	20	SLE Q	-30501.00	166.63	-20.04	12.46	179.65
8	P	18	SLE R	-33389.10	40.07	53.71	12.31	182.84
8	P	20	SLE Q	-30430.10	36.62	48.60	11.22	166.66
9	P	18	SLE R	-33330.50	-94.00	119.94	12.65	185.97
9	P	20	SLE Q	-30365.70	-93.10	112.56	11.60	170.14
10	P	18	SLE R	-3783.51	-23.82	-0.07	14.00	165.10
10	P	20	SLE Q	-3438.85	-23.29	-0.16	12.81	151.16
11	P	18	SLE R	-33233.20	-227.11	205.75	13.89	198.92
11	P	20	SLE Q	-30266.40	-221.90	194.21	12.79	182.60
12	P	18	SLE R	-32966.20	-357.65	380.43	15.23	213.33
12	P	20	SLE Q	-30014.10	-348.21	355.92	14.07	196.37
13	P	18	SLE R	-32377.60	-479.46	725.00	16.75	230.26
13	P	20	SLE Q	-29475.50	-466.10	669.19	15.51	212.33
14	T	18	SLE R	-30095.90	-663.06	2265.31	20.70	278.05
14	T	20	SLE Q	-27447.60	-643.67	2029.57	19.12	255.74

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	23140.60	2.50	31244.40	82223.50	1.350
2	P	13	22625.30	2.50	27703.90	70709.30	1.224
3	P	13	22494.70	2.50	27703.90	71093.90	1.232
4	P	13	22407.30	2.50	27703.90	71446.60	1.236
5	P	13	23140.60	2.50	31244.40	82123.20	1.350
6	P	13	22345.40	2.50	27703.90	72221.00	1.240
7	P	13	22385.80	2.50	27703.90	72545.50	1.238
8	P	13	22344.30	2.50	27703.90	72685.10	1.240
9	P	13	22361.30	2.50	27703.90	72563.30	1.239
10	P	13	743.64	2.50	2330.79	5765.63	3.134
11	P	13	22396.90	2.50	27703.90	72323.20	1.237
12	P	13	22485.60	2.50	27703.90	72038.80	1.232
13	P	13	22555.90	2.50	27703.90	71644.80	1.228
14	P	13	15836.80	2.50	27703.90	70105.30	1.749

Numero del nucleo n. 222

Nodi: 1043 -24284 -24283 -24282 -24281 -22847 -29453 -29452 -29437 -29670 -29669 1070

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
20.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-50588.10	436.55	1409.12	-1273670.00	27481.20	90097.20	25.177
2	P	17	SLU	-32232.30	208.23	-2167.73	-795296.00	11634.40	-116667.00	24.674
3	P	17	SLU	-31501.70	84.01	-1827.50	-795301.00	6464.96	-158012.00	25.246
4	P	17	SLU	-30911.60	32.44	-1289.27	-795296.00	3888.29	-173158.00	25.728
5	P	17	SLU	-18806.70	14.07	446.92	-478374.00	2432.23	78773.90	25.436
6	P	17	SLU	-30543.30	15.84	-854.22	-795301.00	1843.50	-179302.00	26.038
7	P	17	SLU	-43285.60	19.56	-367.09	-1136680.00	15635.20	-266493.00	26.260
8	P	17	SLU	-30218.60	14.95	-259.31	-795296.00	8073.18	-146799.00	26.318
9	P	17	SLU	-30130.90	19.10	-8.46	-795296.00	17461.80	-7897.44	26.395
10	P	17	SLU	-13436.00	-1.18	43.76	-341378.00	-928.16	27372.70	25.408
11	P	17	SLU	-30014.20	22.87	296.09	-795301.00	10151.50	120728.00	26.497
12	P	17	SLU	-48752.00	16.71	24.14	-1273670.00	27820.30	39709.90	26.125
13	P	17	SLU	-29336.30	5.56	1352.53	-795296.00	1812.41	153907.00	27.110
14	P	17	SLU	-28741.90	-49.97	2036.80	-795296.00	-2580.79	152081.00	27.670
15	T	17	SLU	-28147.70	-599.51	2411.44	-28147.70	-16322.20	66455.80	27.539

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	9	SND	170328.00	2581.85	94788.60	170328.00	2609.49	97104.70	1.024

Relazione di calcolo

2	P	13	SND	99029.40	972.87	28522.10	99029.40	1138.13	38392.50	1.313
3	P	13	SND	90808.60	572.67	26289.00	90808.60	1194.07	41799.70	1.535
4	P	13	SND	82304.30	392.78	24215.70	82304.30	842.05	46602.20	1.839
5	P	9	SND	50690.50	-348.92	-6794.11	50690.50	-430.99	-13253.60	1.538
6	P	9	SND	76921.80	315.89	21029.20	76921.80	876.98	49198.60	2.207
7	P	13	SND	85046.30	388.65	49347.40	85046.30	2199.94	147633.00	2.991
8	P	9	SND	58257.20	217.88	16592.80	58257.20	990.44	58148.30	3.266
9	P	9	SND	48887.20	188.83	14563.50	48887.20	1024.06	62666.10	4.001
10	P	9	SND	18541.40	40.86	-1256.75	18541.40	201.55	-11062.40	4.815
11	P	9	SND	39644.20	171.97	12996.00	39644.20	1027.65	67152.80	4.818
12	P	1	SND	-117032.00	-275.89	18643.70	-884222.00	-2602.08	294311.00	7.555
13	P	9	SND	21963.70	198.64	12552.80	21963.70	1467.87	74042.20	5.655
14	P	9	SND	13509.70	259.81	13649.30	13509.70	1467.77	77972.00	5.577
15	T	13	SND	4395.81	-1899.32	13589.20	4395.81	-7831.15	59028.20	4.308

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-37188.20	297.88	932.38	7.87	107.30
1	P	20	SLE Q	-34395.40	276.48	624.36	7.19	97.93
2	P	18	SLE R	-23615.40	144.22	-1528.44	9.01	125.55
2	P	20	SLE Q	-21737.30	134.46	-1434.30	8.33	116.07
3	P	18	SLE R	-23083.40	58.08	-1295.93	7.93	114.54
3	P	20	SLE Q	-21251.00	53.49	-1217.25	7.33	105.80
4	P	18	SLE R	-22652.50	22.40	-922.75	7.15	105.15
4	P	20	SLE Q	-20854.90	20.23	-876.62	6.61	97.17
5	P	18	SLE R	-13805.10	9.00	309.94	7.50	104.80
5	P	20	SLE Q	-12784.10	7.36	266.31	6.88	96.46
6	P	18	SLE R	-22376.90	11.03	-618.48	6.68	98.94
6	P	20	SLE Q	-20596.50	9.79	-596.74	6.17	91.44
7	P	18	SLE R	-31716.40	13.48	-291.58	5.94	88.57
7	P	20	SLE Q	-29232.20	11.70	-343.22	5.51	82.03
8	P	18	SLE R	-22116.10	10.81	-199.07	6.18	91.85
8	P	20	SLE Q	-20340.40	9.92	-207.28	5.71	84.82
9	P	18	SLE R	-22039.40	13.92	-21.43	6.01	89.19
9	P	20	SLE Q	-20260.90	12.97	-41.32	5.55	82.31
10	P	18	SLE R	-9806.16	-0.38	30.22	7.20	96.35
10	P	20	SLE Q	-9005.75	-0.12	25.25	6.59	88.36
11	P	18	SLE R	-21943.20	16.78	193.77	5.85	86.71
11	P	20	SLE Q	-20164.50	15.77	158.77	5.36	79.49
12	P	18	SLE R	-35608.80	13.70	9.58	5.82	86.85
12	P	20	SLE Q	-32691.30	13.74	10.17	5.35	79.79
13	P	18	SLE R	-21441.10	5.04	936.48	6.22	92.42
13	P	20	SLE Q	-19696.90	5.02	842.35	5.70	84.72
14	P	18	SLE R	-21007.80	-33.87	1419.39	6.73	98.06
14	P	20	SLE Q	-19300.20	-31.24	1291.80	6.17	89.96
15	T	18	SLE R	-20554.50	-420.78	1694.73	9.96	124.31
15	T	20	SLE Q	-18873.40	-394.22	1574.64	9.23	114.86

Definizione Pareti

Liv. 1	Par. 1	dal nodo 1043 al nodo 1070
Liv. 2	Par. 1/1	dal nodo -29835 al nodo -29847
	Par. 1/2	dal nodo -29859 al nodo -29797
Liv. 3	Par. 1/1	dal nodo -29836 al nodo -29848
	Par. 1/2	dal nodo -29860 al nodo -29798
Liv. 4	Par. 1/1	dal nodo -29837 al nodo -29849
	Par. 1/2	dal nodo -29861 al nodo -29799
Liv. 5	Par. 1/1	dal nodo -24379 al nodo -29838
	Par. 1/2	dal nodo -29850 al nodo -29862
Liv. 6	Par. 1/1	dal nodo -29838 al nodo -29850
	Par. 1/2	dal nodo -29862 al nodo -29800
Liv. 7	Par. 1/1	dal nodo -24378 al nodo -29851
	Par. 1/2	dal nodo -29863 al nodo -29801
Liv. 8	Par. 1/1	dal nodo -29840 al nodo -29852
	Par. 1/2	dal nodo -29864 al nodo -29802
Liv. 9	Par. 1/1	dal nodo -29841 al nodo -29853
	Par. 1/2	dal nodo -29865 al nodo -29803
Liv. 10	Par. 1	dal nodo -24375 al nodo -29842
Liv. 11	Par. 1/1	dal nodo -29842 al nodo -29854
	Par. 1/2	dal nodo -29866 al nodo -29804
Liv. 12	Par. 1	dal nodo -24374 al nodo -29805
Liv. 13	Par. 1/1	dal nodo -29844 al nodo -29856
	Par. 1/2	dal nodo -29868 al nodo -29806
Liv. 14	Par. 1/1	dal nodo -29845 al nodo -29857
	Par. 1/2	dal nodo -29869 al nodo -29807
Liv. 15	Par. 1/1	dal nodo -29846 al nodo -29858
	Par. 1/2	dal nodo -29870 al nodo -29808

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	Par.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1		9	84080.70	2.50	127400.00	134463.00	1.515
2P	1/1	1		6095.70	2.50	9846.87	10392.80	1.615
2P	1/2	1		55428.20	2.50	65442.80	69070.80	1.181
3P	1/1	1		6645.56	2.50	9846.87	10392.80	1.482
3P	1/2	1		57627.70	2.50	65442.80	69070.80	1.136
4P	1/1	1		6865.18	2.50	9846.87	10392.80	1.434
4P	1/2	1		58692.20	2.50	65442.80	69070.80	1.115
5P	1/1	9		9889.53	2.50	31974.60	33747.20	3.233
5P	1/2	9		10204.60	2.50	12336.20	13020.10	1.209
6P	1/1	1		6861.07	2.50	9846.87	10392.80	1.435
6P	1/2	1		59175.00	2.50	65442.80	69070.80	1.106
7P	1/1	1		15879.10	2.50	44421.50	46884.10	2.797
7P	1/2	1		59308.50	2.50	65442.80	69070.80	1.103
8P	1/1	1		6895.71	2.50	9846.87	10392.80	1.428
8P	1/2	1		59233.30	2.50	65442.80	69070.80	1.105
9P	1/1	1		6933.26	2.50	9846.87	10392.80	1.420
9P	1/2	1		58998.80	2.50	65442.80	69070.80	1.109
10P	1	13		10341.20	2.50	31974.60	33747.20	3.092
11P	1/1	1		6968.71	2.50	9846.87	10392.80	1.413
11P	1/2	1		58613.30	2.50	65442.80	69070.80	1.117
12P	1	9		84352.40	2.50	127400.00	134463.00	1.510
13P	1/1	1		6817.70	2.50	9846.87	10392.80	1.444
13P	1/2	1		57081.80	2.50	65442.80	69070.80	1.146
14P	1/1	1		5961.29	2.50	9846.87	10392.80	1.652
14P	1/2	1		55369.40	2.50	65442.80	69070.80	1.182
15P	1/1	9		5579.63	2.50	9846.87	10392.80	1.765
15P	1/2	9		53189.30	2.50	65442.80	69070.80	1.230

Numero del nucleo n. 223

Nodi: 1070 -35894 -35893 -35892 -35891 -35890 -35889 -491 -35888 1072 -35887 -35886 -35885 -35884 -35883 -35882 -35881 1074

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-93826.10	2973.49	-2821.34	-2516100.00	82439.40	-78331.20	26.817
2P	17	SLU		-93059.60	1794.18	-2019.53	-2516100.00	82515.70	-94291.20	27.038
3P	17	SLU		-92610.20	1071.60	-1509.91	-2516100.00	82353.40	-117073.00	27.169
4P	17	SLU		-92210.30	625.81	-831.74	-2516100.00	82432.70	-109067.00	27.287
5P	17	SLU		-91887.00	347.22	-39.86	-2516100.00	82205.80	-9008.96	27.383
6P	17	SLU		-91603.10	171.48	860.00	-2516100.00	78510.00	400060.00	27.467
7P	17	SLU		-91344.10	56.13	1835.00	-2516100.00	30794.90	1010360.00	27.545
8P	17	SLU		-91086.00	-36.27	2858.52	-2516100.00	-4687.28	1153330.00	27.623
9P	17	SLU		-90808.90	-142.91	3897.04	-2516100.00	-30793.10	1010040.00	27.708
10P	17	SLU		-90514.70	-303.85	4915.67	-2516100.00	-52698.70	797096.00	27.798
11P	17	SLU		-90180.70	-575.08	5897.11	-2516100.00	-62039.80	676446.00	27.901
12P	17	SLU		-89851.60	-1034.02	6788.49	-2516100.00	-73483.60	504231.00	28.003
13T	17	SLU		-88567.30	-3360.94	8908.38	-88567.30	-81426.40	217969.00	24.438
14P	17	SLU		-52277.30	2909.36	-12346.00	-52277.30	77081.40	-340171.00	27.498

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	9	SND		128308.00	10770.50	375429.00	128308.00	15695.30	454795.00	1.212
2P	1	SND		114531.00	6823.91	-349273.00	114531.00	8294.40	-518532.00	1.485
3P	1	SND		100137.00	-4046.66	-319428.00	100137.00	-8407.49	-532126.00	1.666
4P	1	SND		85588.90	-3044.38	-289243.00	85588.90	-8510.08	-545916.00	1.888
5P	1	SND		70964.70	-2251.95	-259315.00	70964.70	-8607.35	-559628.00	2.158
6P	9	SND		56014.40	1839.84	230677.00	56014.40	8721.40	573375.00	2.486
7P	9	SND		41323.70	1133.61	202421.00	41323.70	5632.61	608170.00	3.005
8P	9	SND		26954.40	509.97	174392.00	26954.40	5684.54	621479.00	3.564
9P	9	SND		13139.40	253.10	147152.00	13139.40	5745.95	634194.00	4.310
10P	9	SND		105.35	768.82	120948.00	105.35	9101.32	624372.00	5.163
11P	9	SND		-11747.70	-2716.85	96724.20	-11747.70	-18268.70	576058.00	5.956
12P	9	SND		-21726.50	-4621.08	76228.30	-21726.50	-32547.30	490777.00	6.441
13T	13	SND		-27368.90	-12233.70	61855.40	-27368.90	-56196.60	276742.00	4.479
14P	13	SND		170.00	7665.03	-61263.70	170.00	47389.90	-382519.00	6.243

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-68707.80	2085.11	-1912.69	9.84	126.50
1	P	20	SLE Q	-63333.10	1912.19	-1730.74	9.05	116.36
2	P	18	SLE R	-68123.70	1261.84	-1372.47	8.18	109.90
2	P	20	SLE Q	-62742.70	1163.03	-1208.85	7.53	101.12
3	P	18	SLE R	-67761.70	755.84	-1032.05	7.16	99.68
3	P	20	SLE Q	-62364.60	700.47	-892.74	6.59	91.71
4	P	18	SLE R	-67434.60	442.62	-570.40	6.48	92.71
4	P	20	SLE Q	-62023.50	412.73	-478.26	5.96	85.28
5	P	18	SLE R	-67161.60	246.26	-27.12	6.01	87.74
5	P	20	SLE Q	-61734.70	231.41	5.61	5.54	80.70
6	P	18	SLE R	-66916.50	122.04	593.47	5.84	86.37
6	P	20	SLE Q	-61472.30	116.07	557.21	5.38	79.44
7	P	18	SLE R	-66688.70	40.33	1268.15	5.77	86.01
7	P	20	SLE Q	-61226.00	39.66	1157.03	5.30	79.00
8	P	18	SLE R	-66461.40	-25.14	1978.26	5.82	86.92
8	P	20	SLE Q	-60979.10	-21.89	1789.15	5.33	79.68
9	P	18	SLE R	-66220.90	-100.55	2700.26	6.04	89.46
9	P	20	SLE Q	-60718.40	-92.72	2433.19	5.53	81.95
10	P	18	SLE R	-65968.70	-214.13	3409.54	6.33	92.64
10	P	20	SLE Q	-60444.20	-198.88	3068.36	5.80	84.82
11	P	18	SLE R	-65689.20	-405.37	4093.78	6.76	97.13
11	P	20	SLE Q	-60140.80	-376.72	3685.55	6.19	88.90
12	P	18	SLE R	-65414.10	-728.92	4715.42	7.43	103.87
12	P	20	SLE Q	-59834.10	-676.52	4256.89	6.81	95.07
13	T	18	SLE R	-64423.80	-2369.66	6202.72	10.62	135.11
13	T	20	SLE Q	-58816.10	-2186.17	5646.06	9.74	123.72
14	P	18	SLE R	-38853.70	2047.91	-8532.21	8.41	104.32
14	P	20	SLE Q	-36328.10	1895.87	-7604.72	7.76	96.25

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	212070.00	2.50	240293.00	253615.00	1.133
2	P	1	215847.00	2.50	240293.00	253615.00	1.113
3	P	1	217011.00	2.50	240293.00	253615.00	1.107
4	P	1	217479.00	2.50	240293.00	253615.00	1.105
5	P	1	217690.00	2.50	240293.00	253615.00	1.104
6	P	1	217793.00	2.50	240293.00	253615.00	1.103
7	P	1	217804.00	2.50	240293.00	253615.00	1.103
8	P	1	217734.00	2.50	240293.00	253615.00	1.104
9	P	1	217562.00	2.50	240293.00	253615.00	1.104
10	P	1	217258.00	2.50	240293.00	253615.00	1.106
11	P	1	216663.00	2.50	240293.00	255231.00	1.109
12	P	1	215298.00	2.50	240293.00	256761.00	1.116
13	P	1	211622.00	2.50	240293.00	257786.00	1.135

Numero del nucleo n. 224

Nodi: 1047 -37133 -37132 -37131 -37130 -37129 -37128 -37127 -37126 1072

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
20.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-41255.00	18.48	1017.89	-1064160.00	6327.91	246427.00	25.795
2	P	17	SLU	-5756.93	-0.98	-10.97	-141272.00	-399.68	-4204.10	24.540
3	P	17	SLU	-35178.00	2.69	760.58	-907155.00	1914.63	190333.00	25.788
4	P	17	SLU	-34739.20	-6.07	843.70	-907155.00	0.00	193315.00	26.113
5	P	17	SLU	-34153.20	-11.55	824.48	-907155.00	-1335.20	191057.00	26.561
6	P	17	SLU	-38907.50	-16.96	1142.86	-1064160.00	-1917.61	261308.00	27.351
7	P	17	SLU	-5291.75	-2.97	-71.10	-141273.00	-177.36	-4294.65	26.697
8	P	17	SLU	-32687.10	-9.76	664.75	-907155.00	-1334.02	190548.00	27.753
9	P	17	SLU	-31872.60	-4.08	567.28	-907155.00	0.00	192301.00	28.462
10	P	17	SLU	-31042.60	2.71	467.88	-907155.00	1916.38	188889.00	29.223
11	P	17	SLU	-34953.20	10.66	534.41	-1064160.00	6332.50	243862.00	30.445
12	P	17	SLU	-4551.44	2.68	-70.82	-141272.00	178.01	-4275.98	31.039
13	P	17	SLU	-29421.30	12.80	245.76	-907155.00	8063.37	165908.00	30.833
14	P	17	SLU	-28658.50	13.10	101.23	-907155.00	14613.60	120572.00	31.654
15	P	17	SLU	-27933.80	9.44	-87.99	-907155.00	13257.10	-116358.00	32.475
16	P	17	SLU	-31416.20	5.43	-249.63	-1064160.00	3988.95	-252068.00	33.873
17	P	17	SLU	-27534.00	72.22	91.99	-1064160.00	23598.00	30034.10	38.649

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M' ydy <daNm>	M' ydz <daNm>	Sic.
1	P	5	SND	104248.00	1681.54	70622.70	104248.00	2020.87	88112.20	1.248
2	P	5	SND	5380.67	-165.54	1580.14	5380.67	-227.39	2272.20	1.422
3	P	5	SND	97763.60	-936.48	-39875.80	97763.60	-1224.35	-43066.60	1.069
4	P	5	SND	86143.70	-738.42	-35583.40	86143.70	-1291.04	-49163.20	1.327
5	P	5	SND	74269.30	-579.71	-31558.90	74269.30	-1360.38	-55555.70	1.654
6	P	5	SND	59874.70	525.63	44455.60	59874.70	2252.42	113803.00	2.560
7	P	5	SND	3213.83	58.33	1670.02	3213.83	81.61	2540.73	1.511
8	P	13	SND	44591.20	-371.78	-25781.30	44591.20	-1511.43	-71244.20	2.575
9	P	13	SND	34597.00	-265.56	-21555.10	34597.00	-1106.85	-78073.00	3.360
10	P	13	SND	25332.40	-164.76	-17293.80	25332.40	-1134.38	-82828.10	4.441
11	P	5	SND	18576.60	123.36	18781.00	18576.60	1657.25	140230.00	7.467
12	P	5	SND	1380.72	-76.78	1508.57	1380.72	-130.83	2655.31	1.753
13	P	13	SND	11781.60	-111.29	-8927.38	11781.60	-1648.09	-88051.90	9.123
14	P	5	SND	8092.80	-283.30	-6236.70	8092.80	-3679.47	-82575.00	12.234
15	P	5	SND	9023.84	-517.11	-6924.23	9023.84	-4716.72	-77873.00	10.394
16	T	13	SND	14383.30	-1647.57	31442.90	14383.30	-6852.33	116734.00	3.714
17	P	1	SND	10717.50	866.60	-12624.90	10717.50	8387.99	-110077.00	8.724

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_t <daN/cm ² >
1	P	18	SLE R	-30107.40	13.78	736.48	6.34	94.24
1	P	20	SLE Q	-27940.80	14.50	616.69	5.85	86.98
2	P	18	SLE R	-4196.00	-0.72	-6.44	6.92	98.10
2	P	20	SLE Q	-3868.02	-0.73	-6.06	6.39	90.50
3	P	18	SLE R	-25676.10	2.66	550.88	6.61	97.28
3	P	20	SLE Q	-23834.50	4.08	467.65	6.11	89.94
4	P	18	SLE R	-25358.70	-3.67	612.49	6.59	96.85
4	P	20	SLE Q	-23526.40	-2.13	526.82	6.07	89.35
5	P	18	SLE R	-24936.40	-7.71	599.86	6.50	95.45
5	P	20	SLE Q	-23122.20	-6.23	517.14	5.99	88.05
6	P	18	SLE R	-28410.00	-11.67	831.01	6.05	89.99
6	P	20	SLE Q	-26304.10	-10.24	712.16	5.56	82.81
7	P	18	SLE R	-3860.84	-2.07	-49.21	8.14	103.55
7	P	20	SLE Q	-3552.70	-1.92	-45.11	7.48	95.24
8	P	18	SLE R	-23882.30	-6.77	486.15	6.15	90.46
8	P	20	SLE Q	-22122.10	-5.99	416.23	5.67	83.42
9	P	18	SLE R	-23297.20	-2.91	416.29	5.93	87.42
9	P	20	SLE Q	-21569.20	-2.67	354.41	5.46	80.61
10	P	18	SLE R	-22701.00	1.73	344.82	5.72	84.48
10	P	20	SLE Q	-21006.70	1.36	291.82	5.27	77.87
11	P	18	SLE R	-25570.60	7.19	395.70	5.22	77.89
11	P	20	SLE Q	-23633.80	6.12	329.77	4.80	71.67
12	P	18	SLE R	-3330.26	1.89	-49.31	7.30	91.38
12	P	20	SLE Q	-3063.94	1.73	-44.65	6.69	83.86
13	P	18	SLE R	-21534.30	8.52	184.13	5.36	79.04
13	P	20	SLE Q	-19908.30	6.98	152.90	4.93	72.84
14	P	18	SLE R	-20983.40	8.53	78.92	5.14	75.97
14	P	20	SLE Q	-19390.90	6.52	61.92	4.73	70.01
15	P	18	SLE R	-20458.20	5.74	-59.39	4.88	72.49
15	P	20	SLE Q	-18898.30	3.34	-58.63	4.49	66.81
16	P	18	SLE R	-23008.30	2.66	-179.59	4.57	68.43
16	T	18	SLE R	-22770.20	-8.52	-107.95	4.52	67.43
16	P	20	SLE Q	-21234.00	-0.24	-171.22	4.21	63.09
17	P	18	SLE R	-20235.60	53.09	53.83	4.26	61.85
17	P	20	SLE Q	-18850.90	51.85	-18.29	3.96	57.47

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	73677.00	1.90	133277.00	133277.00	1.809
2	P	13	12235.80	1.90	14466.80	14466.80	1.182
3	P	13	62687.10	1.90	115804.00	115804.00	1.847
4	P	13	63366.30	1.90	115804.00	115804.00	1.828
5	P	13	64129.90	1.90	115804.00	115804.00	1.806
6	P	13	78552.70	1.90	133277.00	133277.00	1.697
7	P	13	13953.70	1.90	14466.90	14466.90	1.037
8	P	13	65260.40	1.90	115804.00	115804.00	1.774
9	P	13	65427.00	1.90	115804.00	115804.00	1.770
10	P	13	65259.80	1.90	115804.00	115804.00	1.775
11	P	13	78158.30	1.90	133277.00	133277.00	1.705
12	P	13	13018.10	1.90	14466.90	14466.90	1.111
13	P	13	63828.40	1.90	115804.00	115804.00	1.814
14	P	13	62547.00	1.90	115804.00	115804.00	1.851

Relazione di calcolo

15	P	13	60942.30	1.90	115804.00	115804.00	1.900
16	P	13	69936.20	1.90	133276.00	133276.00	1.906

Numero del nucleo n. 225

Nodi: 1089 -25858 -506 -25930 1090 -25901 1091

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-73333.20	-10337.00	-872.73	-73333.20	-16769.10	-1458.70	1.623
2	P	17	SLU	-73114.90	-8811.32	-688.29	-73114.90	-16739.80	-1260.60	1.899
3	P	17	SLU	-72896.70	-7285.69	-503.86	-72896.70	-16709.80	-1048.40	2.293
4	P	17	SLU	-72678.40	-5760.06	-319.42	-72678.40	-16708.40	-821.80	2.900
5	P	17	SLU	-72460.10	-4234.43	-134.99	-72460.10	-16764.00	-562.24	3.959
6	P	17	SLU	-72241.80	-2708.80	49.44	-72241.80	-16819.70	288.63	6.209
7	P	17	SLU	-72023.50	-1183.17	233.88	-627513.00	-16802.50	3407.60	8.713
8	P	17	SLU	-71805.30	342.53	418.32	-627513.00	16352.40	19711.00	8.739
9	P	17	SLU	-71587.00	1868.16	602.76	-627513.00	16744.40	5329.22	8.766
10	P	17	SLU	-71368.70	3393.79	787.19	-71368.70	16791.20	3886.04	4.947
11	P	17	SLU	-71150.40	4919.42	971.63	-71150.40	16736.70	3412.75	3.406
12	P	17	SLU	-70932.10	6445.05	1156.07	-70932.10	16694.20	3086.69	2.593
13	T	17	SLU	-70495.60	9496.31	1524.94	-70495.60	16629.60	2676.57	1.751
14	P	17	SLU	-41473.30	-7415.49	-1356.11	-41473.30	-14147.40	-2601.83	1.908

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	-36814.80	-9995.05	-14191.50	-36814.80	-9900.62	-14272.90	1.000
2	P	5	SND	-36646.90	-8528.85	-12597.60	-36646.90	-9809.34	-14696.00	1.161
3	P	5	SND	-36479.00	-7062.97	-11014.10	-36479.00	-9730.94	-15082.20	1.372
4	P	5	SND	-36311.10	-5597.68	-9445.82	-36311.10	-9631.76	-16114.10	1.710
5	P	5	SND	-36143.20	-4133.57	-7900.42	-36143.20	-9470.84	-17809.70	2.262
6	P	5	SND	-35975.30	-2672.46	-6391.79	-35975.30	-9315.51	-22411.40	3.503
7	P	13	SND	-31227.70	-1144.35	5312.98	-31227.70	-7032.79	31696.70	5.974
8	P	5	SND	-64241.80	45.81	4354.71	-517366.00	1004.75	55585.50	8.053
9	P	5	SND	-35471.60	1774.61	3876.94	-35471.60	9327.03	20202.50	5.219
10	P	5	SND	-35303.60	3228.32	3831.16	-35303.60	10106.70	11881.10	3.113
11	P	5	SND	-35135.70	4690.42	4370.52	-35135.70	10533.90	9928.99	2.258
12	P	5	SND	-34967.80	6154.88	5389.47	-34967.80	10683.30	9432.42	1.742
13	T	5	SND	-34632.00	9086.30	8103.58	-34632.00	10649.60	9431.23	1.168
14	P	5	SND	-17635.20	-7014.83	-5719.62	-17635.20	-9372.09	-7589.69	1.332

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1	P	18	SLE R	-52938.10	-7217.90	-563.26	91.56	1140.25
1	P	20	SLE Q	-48826.20	-6363.50	-439.60	80.40	945.63
2	P	18	SLE R	-52770.20	-6153.82	-440.18	77.39	786.78
2	P	20	SLE Q	-48658.30	-5426.27	-335.79	67.95	699.73
3	P	18	SLE R	-52602.30	-5089.73	-317.11	63.37	680.93
3	P	20	SLE Q	-48490.40	-4489.04	-231.97	55.70	605.88
4	P	18	SLE R	-52434.40	-4025.65	-194.03	50.06	572.33
4	P	20	SLE Q	-48322.40	-3551.81	-128.16	44.22	510.59
5	P	18	SLE R	-52266.40	-2961.56	-70.95	38.69	469.58
5	P	20	SLE Q	-48154.50	-2614.58	-24.35	34.55	421.92
6	P	18	SLE R	-52098.50	-1897.48	52.12	30.25	386.06
6	P	20	SLE Q	-47986.60	-1677.35	79.46	27.41	351.18
7	P	18	SLE R	-51930.60	-833.39	175.20	22.70	310.44
7	P	20	SLE Q	-47818.70	-740.12	183.28	20.74	284.38
8	P	18	SLE R	-51762.70	230.73	298.28	18.49	268.50
8	P	20	SLE Q	-47650.80	197.15	287.10	16.93	246.35
9	P	18	SLE R	-51594.80	1294.82	421.36	26.34	348.23
9	P	20	SLE Q	-47482.90	1134.38	390.91	23.83	316.37
10	P	18	SLE R	-51426.90	2358.90	544.44	34.25	428.43
10	P	20	SLE Q	-47315.00	2071.61	494.73	30.75	386.49
11	P	18	SLE R	-51259.00	3422.99	667.52	44.28	524.32
11	P	20	SLE Q	-47147.10	3008.84	598.54	39.23	468.56
12	P	18	SLE R	-51091.10	4487.07	790.60	57.02	633.32
12	P	20	SLE Q	-46979.20	3946.07	702.35	50.14	563.47
13	T	18	SLE R	-50755.30	6615.24	1036.75	85.32	1007.80
13	T	20	SLE Q	-46643.40	5820.53	909.98	74.89	835.01

14	P	18	SLE R	-30455.20	-5210.17	-913.72	69.10	1071.65
14	P	20	SLE Q	-28265.90	-4570.55	-780.78	60.42	892.85

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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}	W _k <mm>
1	P	20	SLE Q	-48826.20	-6363.50	-439.60	33.57	216.01	0.50	16.00	129.77	12.06	472.19	945.63	0.28	0.06
1	P	19	SLE F	-49788.90	-6598.24	-472.86	33.57	216.01	0.50	16.00	130.25	12.06	475.85	1003.30	0.29	0.06
2	P	19	SLE F	-49621.00	-5625.86	-363.72	33.57	216.01	0.50	16.00	412.14	2.01	433.54	674.44	0.20	0.14
13	T	20	SLE Q	-46643.40	5820.53	909.98	33.57	216.01	0.50	16.00	243.21	4.02	442.51	835.01	0.24	0.10
13	T	19	SLE F	-47606.10	6042.78	945.93	33.57	216.01	0.50	16.00	245.04	4.02	447.11	888.03	0.26	0.11
14	P	20	SLE Q	-28265.90	-4570.55	-780.78	35.00	218.00	0.50	16.00	149.76	10.05	501.15	892.85	0.26	0.07
14	P	19	SLE F	-28709.30	-4737.09	-816.84	35.00	218.00	0.50	16.00	150.29	10.05	504.48	943.14	0.27	0.07

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	6821.79	2.50	31244.30	82828.00	4.580
2	P	1	6821.78	2.50	31244.30	82803.00	4.580
3	P	1	6821.78	2.50	31244.30	82777.90	4.580
4	P	1	6821.79	2.50	31244.30	82752.80	4.580
5	P	1	6821.78	2.50	31244.30	82727.70	4.580
6	P	1	6821.78	2.50	31244.30	82702.60	4.580
7	P	1	6821.78	2.50	31244.30	82677.50	4.580
8	P	1	6821.78	2.50	31244.30	82652.50	4.580
9	P	1	6821.78	2.50	31244.30	82627.40	4.580
10	P	1	6821.78	2.50	31244.30	82602.30	4.580
11	P	1	6821.78	2.50	31244.30	82577.20	4.580
12	P	1	6821.79	2.50	31244.30	82552.10	4.580
13	P	1	6821.78	2.50	31244.30	82527.00	4.580

Numero del nucleo n. 226

Nodi: -35197 -34923 -26887 1036 -12042 -12041 -12040 -12039 -12038 1037 1038

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-56931.00	389.99	292.73	-1355760.00	29436.80	22068.10	23.814
2	P	17	SLU	-56325.50	317.44	820.56	-1355760.00	28865.10	73319.10	24.070
3	P	17	SLU	-55720.00	244.88	1348.39	-1355760.00	26755.40	148044.00	24.332
4	P	17	SLU	-55114.50	172.33	1876.22	-1355760.00	21116.80	211676.00	24.599
5	P	17	SLU	-54508.90	99.78	2404.06	-1355760.00	10488.90	266639.00	24.872
6	P	17	SLU	-53903.40	27.23	2931.89	-1355760.00	4669.15	282816.00	25.152
7	P	17	SLU	-53297.90	-45.32	3459.74	-1355760.00	-1416.01	287518.00	25.438
8	P	17	SLU	-52692.40	-117.87	3987.58	-1355760.00	-6759.59	277068.00	25.730
9	P	17	SLU	-52086.90	-190.43	4515.42	-1355760.00	-10480.40	265067.00	26.029
10	P	17	SLU	-51481.30	-262.98	5043.25	-1355760.00	-13574.20	252607.00	26.335
11	P	17	SLU	-28918.20	432.44	-7408.73	-28918.20	13125.20	-238138.00	32.137

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	-15906.30	9270.12	133191.00	-15906.30	9020.31	133662.00	1.003
2	P	1	SND	-14991.30	7101.12	117074.00	-14991.30	7935.12	137977.00	1.178
3	P	1	SND	-14525.50	5420.16	99003.50	-14525.50	7926.84	137705.00	1.391
4	P	1	SND	-14059.70	3739.75	81118.10	-14059.70	6226.96	144037.00	1.775
5	P	5	SND	-14043.10	2178.23	62128.80	-14043.10	6227.21	144037.00	2.319
6	P	1	SND	-13128.10	408.16	46745.00	-13128.10	2016.99	157394.00	3.367
7	P	9	SND	-14454.60	-1297.46	33589.20	-14454.60	-6233.25	144323.00	4.298
8	P	13	SND	-14438.10	-3112.59	26229.50	-14438.10	-12883.10	111202.00	4.238
9	P	5	SND	-12180.00	-4928.42	-26284.40	-12180.00	-14161.80	-73768.80	2.809
10	T	9	SND	-12591.50	-7927.70	63130.60	-12591.50	-13761.80	102398.00	1.624
11	P	13	SND	-6283.20	7522.65	29618.10	-6283.20	13575.10	52806.20	1.784

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-41334.40	278.98	287.31	7.09	101.69
1	P	20	SLE Q	-38117.50	253.68	468.00	6.60	94.75
2	P	18	SLE R	-40868.60	227.04	656.36	6.98	100.90

Relazione di calcolo

2	P	20	SLE Q	-37651.70	206.35	762.00	6.48	93.70
3	P	18	SLE R	-40402.80	175.10	1025.41	6.88	100.10
3	P	20	SLE Q	-37185.90	159.02	1055.98	6.37	92.66
4	P	18	SLE R	-39937.00	123.16	1394.46	6.77	99.31
4	P	20	SLE Q	-36720.10	111.69	1349.98	6.25	91.62
5	P	18	SLE R	-39471.20	71.22	1763.52	6.67	98.51
5	P	20	SLE Q	-36254.40	64.36	1643.97	6.13	90.58
6	P	18	SLE R	-39005.50	19.28	2132.57	6.56	97.72
6	P	20	SLE Q	-35788.60	17.03	1937.97	6.01	89.54
7	P	18	SLE R	-38539.70	-32.65	2501.63	6.68	99.13
7	P	20	SLE Q	-35322.80	-30.30	2231.97	6.10	90.54
8	P	18	SLE R	-38073.90	-84.59	2870.69	6.92	101.84
8	P	20	SLE Q	-34857.00	-77.63	2525.96	6.30	92.69
9	P	18	SLE R	-37608.10	-136.53	3239.75	7.16	104.55
9	P	20	SLE Q	-34391.20	-124.96	2819.96	6.50	94.84
10	T	18	SLE R	-36676.50	-240.41	3977.86	7.65	109.97
10	T	20	SLE Q	-33459.60	-219.62	3407.95	6.90	99.15
11	P	18	SLE R	-21194.90	313.68	-5264.34	6.11	85.14
11	P	20	SLE Q	-19537.60	281.00	-4593.69	5.51	76.82

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	60075.00	2.50	68043.50	170948.00	1.133
2	P	9	60075.00	2.50	68043.50	170877.00	1.133
3	P	9	60075.00	2.50	68043.50	170806.00	1.133
4	P	9	60075.00	2.50	68043.50	170735.00	1.133
5	P	9	60075.00	2.50	68043.50	170664.00	1.133
6	P	9	60075.00	2.50	68043.50	170593.00	1.133
7	P	9	60075.00	2.50	68043.50	170522.00	1.133
8	P	9	60075.00	2.50	68043.50	170451.00	1.133
9	P	9	60075.00	2.50	68043.50	170380.00	1.133
10	T	9	60075.00	2.50	68043.50	170238.00	1.133

Numero del nucleo n. 227

Nodi: -33447 -33446 1033 -33445 -33444 1034

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-77883.10	-1771.14	-3128.70	-596043.00	-13721.30	-24593.50	7.653
2	P	17	SLU	-77599.30	-1420.07	-2409.36	-596043.00	-13785.70	-23379.70	7.681
3	P	17	SLU	-77315.50	-1069.01	-1690.01	-596043.00	-13902.30	-21776.10	7.709
4	P	17	SLU	-77031.80	-717.95	-970.68	-596043.00	-14095.60	-18955.40	7.738
5	P	17	SLU	-76748.00	-366.88	-251.34	-596043.00	-14493.80	-9762.82	7.766
6	P	17	SLU	-76464.20	-15.82	468.00	-596043.00	-1741.98	65496.40	7.795
7	P	17	SLU	-76180.50	335.24	1187.33	-596043.00	11409.00	39724.30	7.824
8	P	17	SLU	-75896.70	686.30	1906.67	-596043.00	12328.40	34367.40	7.853
9	P	17	SLU	-75612.90	1037.37	2626.01	-596043.00	12765.20	31521.80	7.883
10	T	17	SLU	-75045.40	1739.49	4064.72	-75045.40	12886.70	30422.80	7.473
11	P	17	SLU	-39923.80	-1343.35	-3426.40	-39923.80	-10539.60	-27317.60	7.956

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	-47964.00	-4555.96	-20405.70	-47964.00	-6759.08	-30226.60	1.481
2	P	9	SND	-47692.20	-3646.46	-17859.50	-47692.20	-6490.43	-31059.20	1.741
3	P	9	SND	-47473.90	-2785.89	-15044.40	-47473.90	-5996.71	-32565.70	2.164
4	P	9	SND	-47255.70	-1925.92	-12252.30	-47255.70	-5490.86	-33784.80	2.760
5	P	9	SND	-47037.40	-1067.92	-9499.81	-47037.40	-3954.37	-37077.70	3.901
6	P	1	SND	-47208.90	209.30	7429.07	-47208.90	1332.06	41075.10	5.530
7	P	9	SND	-46600.80	676.51	5858.29	-46600.80	3948.80	36949.60	6.301
8	P	9	SND	-46382.50	1529.43	5063.82	-46382.50	7784.86	25478.60	5.036
9	P	9	SND	-46164.30	2388.51	5335.49	-46164.30	8278.14	18266.20	3.431
10	T	13	SND	-45781.20	4142.17	9239.76	-45781.20	8236.47	18231.50	1.976
11	P	9	SND	-23668.40	-3775.23	-18877.00	-23668.40	-5161.12	-24903.60	1.321

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cm²>	σf <daN/cm²>
1	P	18	SLE R	-56785.50	-1245.60	-2181.63	31.92	427.78

Relazione di calcolo

1	P	20	SLE Q	-50832.40	-1079.37	-1802.50	28.03	376.54
2	P	18	SLE R	-56567.20	-998.88	-1678.02	29.08	395.52
2	P	20	SLE Q	-50614.10	-865.45	-1381.40	25.60	348.81
3	P	18	SLE R	-56348.90	-752.15	-1174.42	26.25	363.27
3	P	20	SLE Q	-50395.90	-651.53	-960.30	23.16	321.08
4	P	18	SLE R	-56130.60	-505.42	-670.82	23.42	331.01
4	P	20	SLE Q	-50177.60	-437.61	-539.20	20.72	293.35
5	P	18	SLE R	-55912.30	-258.69	-167.22	20.59	298.76
5	P	20	SLE Q	-49959.30	-223.69	-118.10	18.28	265.62
6	P	18	SLE R	-55694.10	-11.97	336.38	18.93	282.86
6	P	20	SLE Q	-49741.00	-9.77	303.00	16.90	252.61
7	P	18	SLE R	-55475.80	234.76	839.99	21.44	311.13
7	P	20	SLE Q	-49522.70	204.15	724.10	19.05	276.70
8	P	18	SLE R	-55257.50	481.49	1343.59	24.13	341.24
8	P	20	SLE Q	-49304.50	418.07	1145.20	21.35	302.28
9	P	18	SLE R	-55039.20	728.21	1847.19	26.82	371.34
9	P	20	SLE Q	-49086.20	631.99	1566.30	23.64	327.87
10	T	18	SLE R	-54602.60	1221.67	2854.41	32.20	431.56
10	T	20	SLE Q	-48649.60	1059.83	2408.51	28.23	379.04
11	P	18	SLE R	-29853.60	-952.24	-2457.28	21.40	278.25
11	P	20	SLE Q	-27103.30	-829.95	-2149.56	19.00	247.87

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	9050.96	2.50	31244.40	84446.00	3.452
2	P	9	9050.96	2.50	31244.40	84413.40	3.452
3	P	9	9050.96	2.50	31244.40	84380.80	3.452
4	P	9	9050.96	2.50	31244.40	84348.20	3.452
5	P	9	9050.96	2.50	31244.40	84315.60	3.452
6	P	9	9050.96	2.50	31244.40	84283.00	3.452
7	P	9	9050.96	2.50	31244.40	84250.40	3.452
8	P	9	9050.96	2.50	31244.40	84217.80	3.452
9	P	9	9050.96	2.50	31244.40	84185.20	3.452
10	P	9	9050.96	2.50	31244.40	84152.50	3.452

Numero del nucleo n. 228

Nodi: -37673 -38666 -38667 -38668 -38692 -37847

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	TP	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-48087.40	1742.09	-4037.11	-48087.40	26001.30	-61439.80	15.173
2	P	17	SLU	-5295.58	386.39	-277.52	-5295.58	5098.97	-3650.44	13.182
3	P	17	SLU	-42543.80	1114.52	-574.70	-682760.00	21965.90	-11339.20	16.048
4	P	17	SLU	-40758.40	973.24	-1216.81	-682760.00	21129.80	-26275.10	16.751
5	P	17	SLU	-39705.20	793.44	-1287.17	-682760.00	20275.90	-32764.10	17.196
6	P	17	SLU	-47095.20	777.07	-1977.16	-871152.00	25544.10	-64227.90	18.498
7	P	17	SLU	-8473.73	120.68	-32.45	-188392.00	6605.95	-1805.61	22.233
8	P	17	SLU	-38373.40	415.18	-869.93	-682760.00	18800.40	-39862.70	17.793
9	P	17	SLU	-37811.30	223.07	-585.86	-682760.00	17375.10	-45929.60	18.057
10	P	17	SLU	-37258.10	30.83	-294.84	-682760.00	7463.81	-74663.90	18.325
11	P	17	SLU	-46103.00	-187.96	82.77	-871152.00	-28483.00	12702.20	18.896
12	P	17	SLU	-9835.54	-78.99	-34.58	-188392.00	-6215.18	-2760.73	19.154
13	P	17	SLU	-36019.40	-350.18	216.97	-682760.00	-21524.50	13474.40	18.955
14	P	17	SLU	-35036.80	-534.35	262.19	-682760.00	-21519.70	10587.80	19.487
15	P	17	SLU	-33196.10	-699.96	-180.65	-682760.00	-21373.90	-5610.35	20.567
16	T	17	SLU	-44862.80	-1394.19	2657.67	-44862.80	-27096.60	51079.80	19.267
17	P	17	SLU	-27493.80	736.42	-773.84	-871152.00	26457.20	-27461.30	31.685

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	-2684.56	3794.97	-61917.60	-2684.56	4741.70	-82088.40	1.325
2	P	13	SND	38373.20	645.30	644.80	38373.20	1011.82	1324.24	1.656
3	P	13	SND	-18006.70	2598.97	-27603.40	-18006.70	4343.09	-48821.20	1.768
4	P	13	SND	-20678.40	2170.17	-24761.60	-20678.40	4366.23	-49548.80	2.001
5	P	13	SND	-20767.50	1717.32	-20263.00	-20767.50	4367.32	-49576.80	2.447
6	P	13	SND	-1921.36	1557.23	-27783.90	-1921.36	4103.61	-83756.00	3.013
7	P	5	SND	-22554.80	-22.55	523.54	-117583.00	-294.25	5947.48	5.213
8	P	13	SND	-10994.30	830.41	-11565.00	-10994.30	3607.01	-47997.60	4.151
9	P	13	SND	-4520.31	417.70	-7533.07	-4520.31	2926.20	-47049.90	6.248

Relazione di calcolo

10	P	5	SND	-52085.50	-216.22	3764.32	-470333.00	-4029.62	66056.10	9.030
11	P	5	SND	-10128.60	-925.67	-11500.50	-10128.60	-6794.12	-78981.00	6.871
12	P	13	SND	-18447.00	-274.18	178.64	-117583.00	-4136.12	2658.26	6.374
13	P	5	SND	1973.04	-1243.02	-7930.97	1973.04	-6029.61	-39406.60	4.924
14	P	5	SND	6583.45	-1795.95	-12058.20	6583.45	-5552.16	-39075.20	3.186
15	P	5	SND	12834.50	-2351.20	-16031.80	12834.50	-5431.96	-37260.80	2.279
16	T	13	SND	-204.12	-3525.74	52178.10	-204.12	-5563.02	78985.50	1.514
17	P	5	SND	-8932.94	2074.47	-13367.80	-8932.94	10694.60	-66890.40	5.007

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-35032.70	1258.08	-2865.50	18.22	233.26
1	P	20	SLE Q	-32338.00	1180.16	-2645.86	16.93	216.36
2	P	18	SLE R	-3942.50	276.87	-195.15	18.90	187.66
2	P	20	SLE Q	-3633.09	258.77	-177.92	17.47	173.52
3	P	18	SLE R	-30899.40	807.51	-416.71	15.01	195.00
3	P	20	SLE Q	-28514.20	758.75	-393.26	13.96	181.05
4	P	18	SLE R	-29631.60	704.59	-866.80	14.71	193.28
4	P	20	SLE Q	-27344.60	661.85	-806.73	13.67	179.29
5	P	18	SLE R	-28876.10	574.70	-916.93	13.69	182.65
5	P	20	SLE Q	-26641.00	540.05	-856.86	12.72	169.41
6	P	18	SLE R	-34269.40	563.08	-1414.90	12.70	172.48
6	P	20	SLE Q	-31574.80	529.38	-1337.41	11.80	159.97
7	P	18	SLE R	-6167.46	87.32	-23.06	10.15	132.47
7	P	20	SLE Q	-5645.56	82.08	-21.23	9.35	121.81
8	P	18	SLE R	-27911.20	302.04	-624.03	11.05	153.72
8	P	20	SLE Q	-25738.50	284.64	-594.55	10.26	142.60
9	P	18	SLE R	-27502.30	163.65	-424.10	9.64	138.18
9	P	20	SLE Q	-25355.20	155.04	-413.88	8.95	128.20
10	P	18	SLE R	-27100.00	25.17	-219.14	8.48	126.03
10	P	20	SLE Q	-24977.90	25.36	-228.59	7.79	115.69
11	P	18	SLE R	-33506.20	-131.94	35.69	8.71	126.76
11	P	20	SLE Q	-30811.60	-121.40	-28.96	8.00	116.45
12	P	18	SLE R	-7112.66	-56.23	-24.50	10.53	141.65
12	P	20	SLE Q	-6483.17	-52.23	-22.78	9.64	129.44
13	P	18	SLE R	-26202.80	-249.43	141.84	10.38	144.73
13	P	20	SLE Q	-24137.60	-231.83	96.53	9.52	132.69
14	P	18	SLE R	-25498.80	-382.39	174.24	11.13	150.88
14	P	20	SLE Q	-23481.40	-356.46	122.16	10.21	138.36
15	P	18	SLE R	-24191.00	-502.44	-136.77	10.98	145.50
15	P	20	SLE Q	-22274.10	-469.20	-165.98	10.08	133.49
16	T	18	SLE R	-32552.20	-1000.67	1848.90	15.13	195.61
16	T	20	SLE Q	-29857.60	-934.85	1606.57	13.87	178.96
17	P	18	SLE R	-20272.10	538.27	-513.43	8.31	107.44
17	P	20	SLE Q	-18742.60	506.14	-409.79	7.66	98.80

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	35584.50	2.50	42662.30	88345.80	1.199
2	P	13	6897.17	2.50	7257.90	14961.50	1.052
3	P	13	28691.20	2.50	33811.20	72366.90	1.178
4	P	13	31861.80	2.50	33811.20	72762.90	1.061
5	P	13	32044.60	2.50	33811.20	72776.10	1.055
6	P	13	35584.50	2.50	42662.30	88231.60	1.199
7	P	13	3718.67	2.50	7257.90	14961.50	1.952
8	P	13	31865.80	2.50	33811.20	71327.80	1.061
9	P	13	31868.80	2.50	33811.20	70368.40	1.061
10	P	13	31867.10	2.50	33811.20	69698.50	1.061
11	P	13	35584.50	2.50	42662.30	88117.50	1.199
12	P	13	3540.39	2.50	7257.90	14961.50	2.050
13	P	13	32044.10	2.50	33811.20	69698.50	1.055
14	P	13	31816.00	2.50	33811.20	69698.50	1.063
15	P	13	28372.70	2.50	33811.20	69698.50	1.192
16	T	13	35584.50	2.50	42662.30	87974.80	1.199

Numero del nucleo n. 229

Nodi: 1094 -38440 -38441 -38442 -37678

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-43991.70	2179.02	4512.73	-43991.70	13271.50	27115.70	6.024
2	P	17	SLU	-43793.20	1874.77	3972.39	-43793.20	13124.00	28374.40	7.117
3	P	17	SLU	-43594.80	1570.53	3432.06	-43594.80	13109.90	28371.90	8.281
4	P	17	SLU	-43396.40	1266.28	2891.72	-43396.40	12902.40	29702.20	10.258
5	P	17	SLU	-43197.90	962.04	2351.39	-43197.90	12644.20	31110.00	13.218
6	P	17	SLU	-42999.50	657.79	1811.07	-580480.00	12171.00	33650.30	13.500
7	P	17	SLU	-42801.00	353.55	1270.74	-580480.00	10881.00	39349.90	13.562
8	P	17	SLU	-42602.60	49.29	730.40	-580480.00	3893.99	56132.20	13.626
9	P	17	SLU	-42404.20	-254.96	190.08	-580480.00	-14182.40	10716.70	13.689
10	P	17	SLU	-42205.70	-559.20	-350.24	-580480.00	-14226.60	-8819.23	13.754
11	P	17	SLU	-42007.30	-863.45	-890.56	-580480.00	-14034.20	-14320.30	13.819
12	P	17	SLU	-41808.90	-1167.69	-1430.88	-41808.90	-13875.60	-17031.80	11.895
13	T	17	SLU	-41412.00	-1776.18	-2511.53	-41412.00	-13729.30	-19180.50	7.668
14	P	17	SLU	-26951.30	1344.71	1559.41	-26951.30	12644.60	14618.10	9.387

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M' ydy <daNm>	M' ydz <daNm>	Sic.
1	P	5	SND	-12869.50	3447.61	26783.70	-12869.50	3700.96	29144.30	1.088
2	P	5	SND	-12716.90	2948.47	23133.20	-12716.90	3699.44	29114.90	1.259
3	P	5	SND	-12564.20	2449.42	19504.80	-12564.20	3694.23	29056.50	1.490
4	P	5	SND	-12411.60	1950.53	15913.40	-12411.60	3432.82	29505.40	1.853
5	P	5	SND	-12259.00	1451.98	12389.90	-12259.00	3428.10	29446.10	2.376
6	P	5	SND	-12106.30	954.38	9009.87	-12106.30	3174.57	29834.60	3.311
7	P	13	SND	-6424.01	511.81	5757.61	-6424.01	2470.08	29187.20	5.067
8	P	13	SND	-6271.36	143.32	4839.54	-6271.36	872.64	31375.30	6.483
9	P	13	SND	-6118.73	-705.14	5743.12	-6118.73	-3299.86	27639.50	4.811
10	P	13	SND	-5966.07	-1302.35	7917.62	-5966.07	-4282.94	25430.50	3.214
11	P	13	SND	-5813.43	-1901.09	10567.60	-5813.43	-4537.01	24717.20	2.340
12	P	13	SND	-5660.79	-2500.30	13397.60	-5660.79	-4529.41	24662.60	1.840
13	T	5	SND	-10885.20	-3046.42	-22265.30	-10885.20	-3912.22	-28026.60	1.259
14	P	13	SND	-4519.87	2380.08	6997.46	-4519.87	6259.74	17926.80	2.569

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-31913.60	1504.97	3186.82	30.00	380.41
1	P	20	SLE Q	-29476.30	1485.15	2827.13	28.41	357.60
2	P	18	SLE R	-31760.90	1295.84	2806.14	26.98	346.56
2	P	20	SLE Q	-29323.60	1278.12	2494.21	25.45	324.77
3	P	18	SLE R	-31608.30	1086.71	2425.47	24.24	315.64
3	P	20	SLE Q	-29171.00	1071.09	2161.30	22.78	294.88
4	P	18	SLE R	-31455.60	877.57	2044.80	21.73	287.13
4	P	20	SLE Q	-29018.40	864.05	1828.38	20.35	267.57
5	P	18	SLE R	-31303.00	668.44	1664.14	19.28	259.35
5	P	20	SLE Q	-28865.70	657.02	1495.47	18.01	241.27
6	P	18	SLE R	-31150.40	459.31	1283.47	16.83	231.56
6	P	20	SLE Q	-28713.10	449.99	1162.56	15.68	214.98
7	P	18	SLE R	-30997.70	250.17	902.81	14.38	203.78
7	P	20	SLE Q	-28560.40	242.95	829.65	13.34	188.68
8	P	18	SLE R	-30845.10	41.03	522.13	11.92	176.00
8	P	20	SLE Q	-28407.80	35.91	496.73	11.00	162.38
9	P	18	SLE R	-30692.40	-168.10	141.48	12.10	174.70
9	P	20	SLE Q	-28255.10	-171.12	163.82	11.34	163.04
10	P	18	SLE R	-30539.80	-377.24	-239.19	13.88	193.09
10	P	20	SLE Q	-28102.50	-378.16	-169.09	12.91	178.71
11	P	18	SLE R	-30387.10	-586.37	-619.85	16.22	219.30
11	P	20	SLE Q	-27949.80	-585.19	-501.99	15.14	203.44
12	P	18	SLE R	-30234.50	-795.50	-1000.51	18.57	245.51
12	P	20	SLE Q	-27797.20	-792.23	-834.90	17.38	228.16
13	T	18	SLE R	-29929.20	-1213.77	-1761.83	23.37	299.09
13	T	20	SLE Q	-27491.90	-1206.29	-1500.72	22.01	279.35
14	P	18	SLE R	-19844.50	924.55	1097.41	16.49	205.95
14	P	20	SLE Q	-18272.80	927.01	842.36	15.52	191.67

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	15193.00	2.50	28294.00	71905.60	1.862
2	P	5	15193.00	2.50	28294.00	71882.90	1.862
3	P	5	15193.00	2.50	28294.00	71860.20	1.862
4	P	5	15193.00	2.50	28294.00	71837.40	1.862
5	P	5	15193.00	2.50	28294.00	71814.70	1.862
6	P	5	15193.00	2.50	28294.00	71792.00	1.862
7	P	5	15193.00	2.50	28294.00	71769.30	1.862
8	P	5	15193.00	2.50	28294.00	71746.60	1.862

Relazione di calcolo

9P	5	15193.00	2.50	28294.00	71723.90	1.862
10P	5	15193.00	2.50	28294.00	71701.20	1.862
11P	5	15193.00	2.50	28294.00	71678.40	1.862
12P	5	15193.00	2.50	28294.00	71655.70	1.862
13P	5	15193.00	2.50	28294.00	71633.00	1.862

Numero del nucleo n. 230

Nodi: 1018 -15837 -15836 -15835 -15834 -15833 1021

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	TP	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-52310.90	-1209.17	-2198.36	-941529.00	-25732.90	-46148.30	17.999
2P	17	SLU		-51944.20	-1259.03	-1979.11	-941529.00	-25906.20	-40660.40	18.126
3P	17	SLU		-51577.60	-1308.90	-1759.85	-941529.00	-26042.30	-35287.50	18.255
4P	17	SLU		-51210.90	-1358.77	-1540.60	-941529.00	-26131.10	-29616.90	18.385
5P	17	SLU		-50844.30	-1408.63	-1321.35	-941529.00	-26176.00	-24522.20	18.518
6P	17	SLU		-50477.70	-1458.50	-1102.10	-50477.70	-26192.80	-19471.30	17.853
7P	17	SLU		-43764.10	1921.24	1051.29	-43764.10	25705.20	14122.60	13.392
8P	17	SLU		-43346.70	1877.98	1297.35	-43346.70	25640.00	18043.00	13.736
9P	17	SLU		-42929.30	1834.73	1543.40	-42929.30	25561.10	21556.30	13.946
10P	17	SLU		-42511.90	1791.48	1789.46	-42511.90	25429.40	25509.70	14.225
11P	17	SLU		-30112.50	-1513.49	-964.41	-30112.50	-24284.20	-15745.00	16.127

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	13	SND		15498.20	-6998.33	-52105.60	15498.20	-7804.98	-59909.00	1.149
2P	13	SND		15780.20	-5140.73	-43881.20	15780.20	-7070.94	-62158.40	1.416
3P	13	SND		16062.30	-3284.99	-35692.00	16062.30	-6405.48	-64051.30	1.796
4P	13	SND		16344.30	-1450.52	-27570.40	16344.30	-3739.32	-71213.60	2.583
5P	5	SND		20081.70	-2292.15	-18044.60	20081.70	-7624.94	-58209.60	3.227
6P	5	SND		20363.80	-4170.07	10447.20	20363.80	-11458.40	28711.50	2.748
7P	5	SND		25138.40	5034.09	6827.58	25138.40	12851.20	17168.60	2.528
8P	5	SND		25459.50	2877.17	-9215.65	25459.50	10721.40	-33313.10	3.624
9P	13	SND		20963.10	2073.78	18913.30	20963.10	6868.88	60150.50	3.182
10T	13	SND		21605.30	6379.53	37184.10	21605.30	8891.65	53166.70	1.429
11P	13	SND		3328.34	-3978.60	-9194.14	3328.34	-13209.50	-30690.20	3.335

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cm²>	σf <daN/cm²>
1P	18	SLE	R	-38164.30	-853.17	-1490.63	13.59	182.53
1P	20	SLE	Q	-35628.10	-866.60	-1443.25	13.07	174.44
2P	18	SLE	R	-37882.20	-885.20	-1342.60	13.56	181.39
2P	20	SLE	Q	-35346.00	-879.86	-1317.61	12.96	172.66
3P	18	SLE	R	-37600.20	-917.23	-1194.56	13.52	180.25
3P	20	SLE	Q	-35064.00	-893.12	-1191.96	12.86	170.87
4P	18	SLE	R	-37318.20	-949.26	-1046.53	13.49	179.11
4P	20	SLE	Q	-34782.00	-906.39	-1066.32	12.76	169.09
5P	18	SLE	R	-37036.10	-981.29	-898.50	13.46	177.96
5P	20	SLE	Q	-34499.90	-919.65	-940.68	12.65	167.30
6P	18	SLE	R	-36754.10	-1013.32	-750.47	13.43	176.82
6P	20	SLE	Q	-34217.90	-932.91	-815.03	12.55	165.52
7P	18	SLE	R	-32062.60	1337.04	686.41	13.92	176.62
7P	20	SLE	Q	-29952.50	1199.16	599.79	12.73	162.07
8P	18	SLE	R	-31741.50	1310.81	852.42	13.87	176.32
8P	20	SLE	Q	-29631.40	1213.03	740.21	12.85	163.41
9P	18	SLE	R	-31420.40	1284.58	1018.42	13.82	176.03
9P	20	SLE	Q	-29310.30	1226.90	880.63	12.97	164.76
10P	18	SLE	R	-31099.30	1258.35	1184.43	13.76	175.73
10T	18	SLE	R	-30778.20	1232.12	1350.44	13.71	175.44
10T	20	SLE	Q	-28668.10	1254.64	1161.48	13.22	167.61
11P	18	SLE	R	-22370.70	-1064.95	-628.51	10.58	131.21
11P	20	SLE	Q	-21230.50	-1044.85	-473.14	10.11	124.77

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	13		27596.90	2.50	43045.80	106482.00	1.560
2P	13		27596.90	2.50	43045.80	106482.00	1.560

Relazione di calcolo

3P	13	27596.90	2.50	43045.80	106482.00	1.560
4P	13	27596.90	2.50	43045.80	106482.00	1.560
5P	13	27596.90	2.50	43045.80	106482.00	1.560
6P	13	27596.90	2.50	43045.80	106482.00	1.560
7P	13	27579.60	2.50	43045.80	106482.00	1.561
8P	13	27579.60	2.50	43045.80	106482.00	1.561
9P	13	27579.60	2.50	43045.80	106482.00	1.561
10P	13	27579.60	2.50	43045.80	106482.00	1.561

Numero del nucleo n. 231

Nodi: 1040 1041 -31944 -31943 -31942 -31941 -31940 -31939 1042

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-51524.40	-446.03	2734.74	-1160960.00	-21331.00	136692.00	22.532
2P	17	SLU		-51127.80	-385.69	2228.91	-1160960.00	-22069.60	129376.00	22.707
3P	17	SLU		-44940.40	-265.57	2319.90	-1011910.00	-14192.30	130259.00	22.517
4P	17	SLU		-44285.20	-219.96	1474.29	-1011910.00	-16986.50	114754.00	22.850
5P	17	SLU		-6098.76	-33.33	-3.32	-149054.00	-3534.30	-360.17	24.440
6P	17	SLU		-43838.00	-171.18	855.41	-1011910.00	-19190.10	97919.90	23.083
7P	17	SLU		-49540.20	-144.19	202.77	-1160960.00	-25495.00	35525.10	23.435
8P	17	SLU		-43241.30	-69.25	-67.23	-1011910.00	-21962.20	-21393.20	23.401
9P	17	SLU		-42974.10	-17.53	-491.69	-1011910.00	-4728.68	-153570.00	23.547
10P	17	SLU		-5686.07	3.30	-2.75	-149054.00	2965.00	-2450.75	26.214
11P	17	SLU		-42663.10	33.69	-956.89	-1011910.00	4727.89	-153411.00	23.719
12P	17	SLU		-47952.60	97.32	-1823.20	-1160960.00	10390.00	-193759.00	24.211
13P	17	SLU		-41512.50	132.08	-2396.29	-1011910.00	8251.36	-144603.00	24.376
14P	17	SLU		-40170.80	174.10	-3845.51	-1011910.00	6798.22	-147661.00	25.190
15P	17	SLU		-8875.26	88.24	-37.00	-149054.00	3596.90	-1492.28	16.794
16T	17	SLU		-37539.30	194.58	-7512.35	-37539.30	3337.64	-153081.00	20.375

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	5	SND		-18668.70	-9283.64	80177.20	-18668.70	-10688.90	90459.00	1.129
2P	1	SND		-18098.40	-7382.57	72402.50	-18098.40	-9972.08	93473.40	1.292
3P	1	SND		-24081.10	-5615.78	44349.40	-24081.10	-9687.79	72725.00	1.641
4P	5	SND		-25798.80	-4713.88	37536.90	-25798.80	-9769.75	73408.30	1.958
5P	5	SND		10107.10	-375.49	256.11	10107.10	-975.55	884.67	2.660
6P	9	SND		-24885.20	3115.50	-31630.60	-24885.20	7785.24	-78087.40	2.469
7P	5	SND		-17142.40	-2447.04	36037.20	-17142.40	-7796.78	102387.00	2.843
8P	13	SND		-19745.40	899.67	-20137.10	-19745.40	4254.27	-86096.90	4.276
9P	9	SND		-16669.50	-375.13	-15644.70	-16669.50	-2096.48	-89467.00	5.719
10P	1	SND		2546.20	-119.53	196.82	2546.20	-967.96	1804.65	8.155
11P	1	SND		-15891.30	1459.11	-12562.10	-15891.30	8298.25	-70518.50	5.615
12P	13	SND		-14276.30	-3054.66	13943.60	-14276.30	-12883.80	58025.90	4.164
13P	13	SND		-6561.66	-4167.85	-9628.19	-6561.66	-10863.70	-25094.60	2.606
14P	13	SND		-1194.75	-5520.36	-12545.90	-1194.75	-10384.30	-23885.90	1.900
15P	5	SND		8948.52	299.78	116.57	8948.52	1337.40	891.20	4.522
16T	13	SND		6828.11	-8095.55	-21225.50	6828.11	-9391.59	-25107.30	1.179

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1P	18	SLE	R	-37215.60	-306.35	1843.65	8.50	121.06
1P	20	SLE	Q	-33492.10	-109.77	868.92	6.60	96.63
2P	18	SLE	R	-36910.60	-265.19	1492.18	8.11	116.09
2P	20	SLE	Q	-33187.10	-98.35	664.70	6.40	93.91
3P	18	SLE	R	-32436.90	-182.01	1580.23	8.31	119.02
3P	20	SLE	Q	-29307.00	-56.62	1029.18	6.76	99.02
4P	18	SLE	R	-31954.60	-151.26	991.59	7.68	110.83
4P	20	SLE	Q	-28803.20	-53.71	567.78	6.33	93.18
5P	18	SLE	R	-4377.65	-23.42	-2.57	6.91	97.76
5P	20	SLE	Q	-3835.11	-16.15	-5.04	6.01	84.99
6P	18	SLE	R	-31616.70	-118.21	560.15	7.17	104.39
6P	20	SLE	Q	-28435.70	-47.94	254.62	6.02	88.97
7P	18	SLE	R	-35689.30	-100.49	84.36	6.54	96.18
7P	20	SLE	Q	-31965.80	-52.68	-153.49	5.75	85.24
8P	18	SLE	R	-31148.40	-48.92	-83.09	6.34	93.99
8P	20	SLE	Q	-27891.40	-32.37	-169.96	5.67	84.29

Relazione di calcolo

9P	18	SLE R	-30936.10	-13.74	-378.75	6.32	94.30
9P	20	SLE Q	-27638.70	-24.10	-358.44	5.71	84.97
10P	18	SLE R	-4079.79	2.01	-2.10	5.83	84.95
10P	20	SLE Q	-3690.94	-2.10	-3.91	5.35	77.44
11P	18	SLE R	-30693.30	21.08	-702.82	6.52	97.01
11P	20	SLE Q	-27358.70	-16.32	-573.08	5.76	85.85
12P	18	SLE R	-34468.10	64.23	-1323.34	6.82	100.66
12P	20	SLE Q	-30744.60	-7.00	-971.58	5.78	86.28
13P	18	SLE R	-29838.90	87.74	-1706.21	7.32	107.09
13P	20	SLE Q	-26457.10	-5.07	-1330.79	6.04	89.94
14P	18	SLE R	-28877.60	115.92	-2716.21	7.93	115.19
14P	20	SLE Q	-25501.00	-5.26	-2189.60	6.43	95.34
15P	18	SLE R	-6293.43	61.98	-26.52	11.54	154.84
15P	20	SLE Q	-5910.84	49.35	-25.41	10.59	142.84
16T	18	SLE R	-26991.50	127.48	-5270.61	9.32	134.56
16T	20	SLE Q	-23650.60	-44.70	-4397.81	7.72	112.77

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	37674.60	2.50	86696.50	145770.00	2.301
2	P	1	37674.60	2.50	86696.50	145724.00	2.301
3	P	1	36065.20	2.50	75632.70	128377.00	2.097
4	P	1	36156.00	2.50	75632.70	128620.00	2.092
5	P	9	1576.90	2.50	9249.35	15253.30	5.866
6	P	1	36150.40	2.50	75632.70	128567.00	2.092
7	P	1	37674.60	2.50	86696.50	145538.00	2.301
8	P	1	36107.40	2.50	75632.70	127919.00	2.095
9	P	1	36109.50	2.50	75632.70	127534.00	2.095
10	P	9	1593.11	2.50	9249.40	15253.40	5.806
11	P	1	36117.40	2.50	75632.70	127136.00	2.094
12	P	1	37674.60	2.50	86696.50	145353.00	2.301
13	P	1	35901.20	2.50	75632.70	126202.00	2.107
14	P	1	34914.20	2.50	75632.70	125488.00	2.166
15	P	9	8997.90	2.50	9249.35	15253.30	1.028
16	P	1	32384.20	2.50	75632.70	124728.00	2.335

Numero del nucleo n. 232

Nodi: -25238 -25237 -10154 -29027 -503 -32950 -32949 -29030 -29082 -24936 -25562 -25561

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-80948.30	-2880.31	3421.01	-80948.30	-28812.60	34357.60	10.027
2	P	17	SLU	-62242.10	-1831.29	7643.64	-62242.10	-20092.40	84595.30	11.062
3	P	17	SLU	-25132.10	-480.28	25.17	-340694.00	-6968.25	321.62	13.556
4	P	17	SLU	-23615.10	-412.99	-169.35	-340694.00	-6839.41	-2839.10	14.427
5	P	17	SLU	-56608.70	-952.20	1830.54	-1008400.00	-21744.80	41182.40	17.814
6	P	17	SLU	-22434.50	-320.03	-147.49	-340694.00	-6739.41	-3158.29	15.186
7	P	17	SLU	-78567.20	-870.45	2145.73	-1349090.00	-28179.30	70785.30	17.171
8	P	17	SLU	-20752.50	-112.63	-25.20	-340694.00	-6616.51	-1422.13	16.417
9	P	17	SLU	-20000.30	-6.00	3.77	-340694.00	-6419.83	4021.63	17.034
10	P	17	SLU	-58088.30	236.62	1745.47	-1008400.00	19646.30	137053.00	17.360
11	P	17	SLU	-19049.80	99.23	18.47	-340694.00	6464.73	1218.27	17.884
12	P	17	SLU	-76662.10	737.63	1125.42	-1349090.00	28328.00	43363.30	17.598
13	P	17	SLU	-16099.90	286.05	-82.51	-340694.00	6237.85	-1819.69	21.161
14	P	17	SLU	-15050.30	331.25	-64.13	-15050.30	6084.44	-1146.52	18.350
15	P	17	SLU	-33097.40	1073.64	-12150.60	-33097.40	7303.13	-76703.70	6.317
16	P	17	SLU	-14970.90	298.81	2.31	-14970.90	6066.26	47.17	20.302

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P		9	SND	-48119.60	-4929.42	128038.00	-48119.60	-6504.15	164625.00	1.286
2P		1	SND	-18475.40	-3249.70	-72092.70	-18475.40	-4043.76	-84093.50	1.167
3P		9	SND	-4623.70	-793.32	3770.24	-4623.70	-1718.61	8041.91	2.134
4P		1	SND	-2017.79	-712.87	-3747.51	-2017.79	-1594.03	-8655.34	2.307
5P		1	SND	-26821.80	-1637.68	-69382.60	-26821.80	-3171.13	-131411.00	1.894
6P		1	SND	-2924.26	-544.83	-3534.45	-2924.26	-1403.90	-9088.74	2.572
7P		9	SND	-46288.00	-1417.37	68071.40	-46288.00	-2938.53	174722.00	2.567
8P		9	SND	-6635.20	-177.48	3003.06	-6635.20	-550.77	9637.79	3.209
9P		9	SND	-7317.80	-79.42	2792.96	-7317.80	-294.52	9966.06	3.568

Relazione di calcolo

10	P	9	SND	-32197.50	-326.75	-32533.60	-32197.50	-2239.97	-137327.00	4.221
11	P	9	SND	-7711.32	214.32	2583.11	-7711.32	798.36	9700.44	3.755
12	P	1	SND	-41314.50	1530.54	33338.70	-41314.50	6430.21	159671.00	4.788
13	P	9	SND	-7006.85	524.36	2098.82	-7006.85	2034.25	8280.16	3.941
14	P	13	SND	-6571.07	633.66	1800.13	-6571.07	2627.65	7359.13	4.094
15	P	13	SND	-9283.98	2165.26	-25277.00	-9283.98	3683.83	-39703.10	1.572
16	T	13	SND	-5975.96	554.09	-2425.23	-5975.96	2051.64	-8888.78	3.667

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-59174.10	-2032.76	2426.41	16.35	211.15
1	P	20	SLE Q	-54985.50	-1784.97	2234.24	14.83	192.58
2	P	18	SLE R	-45429.70	-1292.97	5352.36	17.79	233.13
2	P	20	SLE Q	-42194.00	-1137.27	4944.59	16.23	213.46
3	P	18	SLE R	-18222.20	-339.24	18.97	15.11	203.57
3	P	20	SLE Q	-16901.00	-300.68	18.68	13.82	186.89
4	P	18	SLE R	-17159.10	-291.81	-116.84	14.62	194.55
4	P	20	SLE Q	-15912.40	-258.67	-108.13	13.40	178.81
5	P	18	SLE R	-41380.40	-673.37	1308.05	11.65	159.54
5	P	20	SLE Q	-38381.60	-597.73	1210.09	10.68	146.74
6	P	18	SLE R	-16328.20	-226.32	-101.99	13.18	177.80
6	P	20	SLE Q	-15138.50	-201.40	-94.63	12.10	163.72
7	P	18	SLE R	-57342.50	-616.60	1531.70	11.00	154.49
7	P	20	SLE Q	-53153.90	-552.82	1418.51	10.13	142.57
8	P	18	SLE R	-15137.70	-80.20	-17.07	10.05	143.69
8	P	20	SLE Q	-14025.40	-74.12	-16.02	9.31	133.12
9	P	18	SLE R	-14604.20	-5.08	3.09	8.63	127.99
9	P	20	SLE Q	-13525.90	-8.75	2.64	8.05	119.09
10	P	18	SLE R	-42311.00	164.32	1244.87	9.51	138.79
10	P	20	SLE Q	-39156.40	130.94	1159.28	8.71	127.53
11	P	18	SLE R	-13932.20	69.05	13.32	9.03	130.20
11	P	20	SLE Q	-12898.20	55.78	12.13	8.25	119.45
12	P	18	SLE R	-55877.00	516.48	815.87	10.19	144.19
12	P	20	SLE Q	-51688.50	433.03	765.88	9.28	131.92
13	P	18	SLE R	-11854.50	200.63	-57.15	9.95	133.13
13	P	20	SLE Q	-10965.20	170.65	-53.52	9.01	121.17
14	P	18	SLE R	-11107.60	232.45	-44.66	9.87	130.27
14	P	20	SLE Q	-10275.40	199.15	-41.53	8.92	118.39
15	P	18	SLE R	-24236.70	755.34	-8445.90	17.26	226.95
15	P	20	SLE Q	-22315.60	646.50	-7857.60	15.55	205.60
16	T	18	SLE R	-10938.70	181.73	-213.64	10.05	130.22
16	T	20	SLE Q	-10117.70	158.46	-199.04	9.18	119.23

Definizione Pareti

Liv. 1 Par. 1 dal nodo -25238 al nodo -25561
Liv. 2 Par. 1/1 dal nodo -34283 al nodo -10380
Par. 1/2 dal nodo -32981 al nodo -29124
Par. 1/3 dal nodo -25660 al nodo -33758
Liv. 3 Par. 1 dal nodo -32982 al nodo -29125
Liv. 4 Par. 1 dal nodo -32983 al nodo -29126
Liv. 5 Par. 1/1 dal nodo -34280 al nodo -32984
Par. 1/2 dal nodo -29127 al nodo -34287
Liv. 6 Par. 1 dal nodo -32984 al nodo -29127
Liv. 7 Par. 1 dal nodo -34279 al nodo -34288
Liv. 8 Par. 1 dal nodo -32986 al nodo -29129
Liv. 9 Par. 1 dal nodo -32987 al nodo -29130
Liv. 10 Par. 1/1 dal nodo -34276 al nodo -32988
Par. 1/2 dal nodo -29131 al nodo -34291
Liv. 11 Par. 1 dal nodo -32988 al nodo -29131
Liv. 12 Par. 1 dal nodo -34275 al nodo -34292
Liv. 13 Par. 1 dal nodo -32990 al nodo -29133
Liv. 14 Par. 1 dal nodo -32991 al nodo -29134
Liv. 15 Par. 1/1 dal nodo -34272 al nodo -10369
Par. 1/2 dal nodo -25649 al nodo -33769
Liv. 16 Par. 1 dal nodo -32992 al nodo -29135

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	Par.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	9	51292.90	2.50	83518.90	179506.00	1.628
2	P	1/1	1	14378.40	2.50	32182.60	66341.40	2.238
2	P	1/2	1	16181.80	2.50	20640.70	42598.50	1.276
2	P	1/3	1	6649.45	2.50	7116.30	14669.60	1.070
3	P	1	1	17874.50	2.50	20640.70	42767.20	1.155
4	P	1	1	18646.20	2.50	20640.70	42841.40	1.107
5	P	1/1	9	26215.00	2.50	39971.60	82397.50	1.525
5	P	1/2	9	7320.83	2.50	20003.50	41235.30	2.732

Relazione di calcolo

6P	1	1	18665.30	2.50	20640.70	42972.90	1.106
7P	1	9	51292.90	2.50	83519.00	179226.00	1.628
8P	1	1	18476.80	2.50	20640.70	43321.20	1.117
9P	1	1	18514.60	2.50	20640.70	43489.90	1.115
10P	1/1	9	26288.80	2.50	39971.60	83245.30	1.520
10P	1/2	9	7441.51	2.50	20003.50	41235.30	2.688
11P	1	1	18563.70	2.50	20640.70	43613.10	1.112
12P	1	9	51292.90	2.50	83518.90	179003.00	1.628
13P	1	1	17588.50	2.50	20640.70	43614.70	1.174
14P	1	9	16396.30	2.50	20640.70	43499.30	1.259
15P	1/1	9	24014.20	2.50	32182.60	67037.40	1.340
15P	1/2	9	3525.96	2.50	7116.30	14669.60	2.018
16P	1	9	16123.70	2.50	20640.70	43444.70	1.280

Numero del nucleo n. 233

Nodi: -32692 -32691 -27239 -32690 -32689 -32673

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-21786.60	-152.21	-983.75	-662452.00	-8039.89	-54437.10	30.406
2P	17	SLU		-21483.70	-122.07	-983.49	-662452.00	-6992.22	-56751.70	30.835
3P	17	SLU		-21180.80	-91.93	-983.23	-662452.00	-5139.19	-60274.80	31.276
4P	17	SLU		-20877.90	-61.80	-982.98	-662452.00	-3869.01	-61806.70	31.730
5P	17	SLU		-20574.90	-31.66	-982.73	-662452.00	-2331.58	-63335.00	32.197
6P	17	SLU		-20272.00	-1.52	-982.49	-662452.00	0.00	-64379.70	32.678
7P	17	SLU		-19969.10	28.62	-982.24	-662452.00	1409.77	-63892.50	33.174
8P	17	SLU		-19666.10	58.75	-982.00	-662452.00	3306.45	-61979.10	33.685
9P	17	SLU		-19363.20	88.89	-981.75	-662452.00	5118.72	-59582.60	34.212
10P	17	SLU		-19060.30	119.03	-981.51	-662452.00	6918.92	-55910.80	34.756
11P	17	SLU		-9843.17	-114.85	2554.56	-9843.17	-2270.94	58910.10	23.055

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yzd <daNm>	Sic.
1P	9	SND		-1709.64	-944.10	-28201.10	-1709.64	-1517.28	-37009.90	1.313
2P	9	SND		-1476.63	-766.96	-23358.00	-1476.63	-1514.48	-36888.90	1.580
3P	13	SND		-1487.01	-592.70	-18240.70	-1487.01	-1514.38	-36888.90	2.023
4P	9	SND		-1010.59	-423.62	-13742.80	-1010.59	-875.76	-37509.80	2.729
5P	9	SND		-777.57	213.87	-9048.33	-777.57	863.67	-37378.60	4.131
6P	1	SND		-2202.95	159.42	-4930.47	-2202.95	1507.13	-37197.80	7.547
7P	1	SND		-1969.93	-227.12	-4271.76	-1969.93	-2188.77	-36117.90	8.459
8P	1	SND		-1736.91	276.61	-8022.18	-1736.91	1503.25	-36995.90	4.613
9P	1	SND		-1503.88	-461.34	-12614.10	-1503.88	-1515.88	-36929.20	2.928
10T	1	SND		-1037.84	-738.89	-22152.60	-1037.84	-1511.92	-36727.40	1.658
11P	9	SND		-3312.99	609.52	10631.50	-3312.99	2173.45	36727.20	3.455

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1P	18	SLE	R	-15964.30	-106.72	-706.85	6.52	93.13
1P	20	SLE	Q	-15202.60	-90.15	-725.00	6.21	88.96
2P	18	SLE	R	-15731.30	-85.65	-708.31	6.31	90.67
2P	20	SLE	Q	-14969.60	-72.29	-714.54	6.00	86.47
3P	18	SLE	R	-15498.30	-64.58	-709.76	6.10	88.20
3P	20	SLE	Q	-14736.60	-54.44	-704.08	5.79	83.99
4P	18	SLE	R	-15265.30	-43.51	-711.22	5.89	85.74
4P	20	SLE	Q	-14503.60	-36.59	-693.62	5.59	81.50
5P	18	SLE	R	-15032.20	-22.44	-712.69	5.67	83.27
5P	20	SLE	Q	-14270.50	-18.74	-683.16	5.38	79.01
6P	18	SLE	R	-14799.20	-1.37	-714.15	5.46	80.81
6P	20	SLE	Q	-14037.50	-0.88	-672.70	5.17	76.53
7P	18	SLE	R	-14566.20	19.70	-715.62	5.52	81.08
7P	20	SLE	Q	-13804.50	16.97	-662.24	5.20	76.39
8P	18	SLE	R	-14333.20	40.77	-717.08	5.60	81.52
8P	20	SLE	Q	-13571.50	34.82	-651.79	5.24	76.37
9P	18	SLE	R	-14100.20	61.83	-718.55	5.68	81.96
9P	20	SLE	Q	-13338.50	52.68	-641.33	5.27	76.35
10T	18	SLE	R	-13634.10	103.97	-721.47	5.83	82.85
10T	20	SLE	Q	-12872.40	88.38	-620.42	5.35	76.31
11P	18	SLE	R	-7275.91	-82.15	1875.65	5.65	78.21

11	P	20	SLE Q	-6912.59	-71.29	1698.15	5.15	71.56
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Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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}	W _k <mm>
11	P	19	SLE F	-7002.03	-74.22	1740.89	35.00	0.00	0.50	16.00	99.84	2.01	37.50	11.80	0.00	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	15358.10	2.50	33436.00	82966.20	2.177
2	P	9	15358.10	2.50	33436.00	82931.40	2.177
3	P	9	15358.10	2.50	33436.00	82896.40	2.177
4	P	9	15358.10	2.50	33436.00	82861.50	2.177
5	P	9	15358.10	2.50	33436.00	82826.70	2.177
6	P	9	15358.10	2.50	33436.00	82791.80	2.177
7	P	9	15358.10	2.50	33436.00	82756.90	2.177
8	P	9	15358.10	2.50	33436.00	82722.00	2.177
9	P	9	15358.10	2.50	33436.00	82710.20	2.177
10	P	9	15358.10	2.50	33436.00	82710.20	2.177

Numero del nucleo n. 234

Nodi: 1019 -21512 -21511 -21510 -21487 -32531 -32530

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-42343.40	-825.15	-603.50	-975950.00	-27958.20	-20373.70	23.049
2	P	17	SLU	-12684.60	-186.57	-468.15	-333512.00	-6014.38	-15241.30	26.293
3	P	17	SLU	-29361.20	-537.41	950.58	-642438.00	-17113.20	29975.80	21.881
4	P	17	SLU	-28705.40	-443.81	446.71	-642438.00	-17802.10	18219.80	22.380
5	P	17	SLU	-28114.20	-363.30	124.49	-642438.00	-18050.60	6328.22	22.851
6	P	17	SLU	-41152.80	-420.48	-250.96	-975950.00	-27939.40	-16970.80	23.715
7	P	17	SLU	-13491.30	-100.38	-20.01	-333512.00	-9981.11	-1966.59	24.721
8	P	17	SLU	-27363.90	-218.94	-47.48	-642438.00	-17934.90	-4041.90	23.478
9	P	17	SLU	-27079.10	-149.69	-31.43	-642438.00	-17897.80	-3642.76	23.724
10	P	17	SLU	-26803.50	-80.55	-0.27	-642438.00	-17803.40	-12.13	23.968
11	P	17	SLU	-39962.10	-15.80	101.56	-975950.00	-18840.00	120115.00	24.422
12	P	17	SLU	-13550.20	22.79	-25.29	-333512.00	8851.96	-9804.92	24.613
13	P	17	SLU	-26114.30	62.56	-31.50	-642438.00	17769.00	-9027.29	24.601
14	P	17	SLU	-25532.10	141.51	-227.32	-642438.00	16797.70	-26588.60	25.162
15	P	17	SLU	-24773.40	231.41	-634.33	-642438.00	14298.70	-39725.00	25.933
16	P	17	SLU	-38771.50	388.86	454.35	-975950.00	27555.10	31985.60	25.172
17	P	17	SLU	-22726.70	-153.80	572.78	-975950.00	-23069.10	86140.50	42.943

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	1	SND	-23982.50	-2458.76	-70745.90	-23982.50	-3683.06	-101842.00	1.440
2	P	1	SND	38053.60	-500.56	-5564.41	38053.60	-549.01	-6748.44	1.208
3	P	9	SND	31457.20	-2149.85	20024.40	31457.20	-3382.59	30365.90	1.546
4	P	9	SND	24649.10	-1785.04	17481.80	24649.10	-3532.98	32258.60	1.889
5	P	1	SND	7178.41	-1180.37	-14360.10	7178.41	-2924.24	-33808.80	2.333
6	P	9	SND	-21852.30	-1656.95	31717.50	-21852.30	-5150.52	96835.30	3.053
7	P	1	SND	5663.44	-329.16	-1892.33	5663.44	-1847.53	-10796.50	5.667
8	P	1	SND	-3312.80	-779.83	-8778.95	-3312.80	-3037.64	-36913.10	4.202
9	P	1	SND	-7742.21	-597.20	-6026.41	-7742.21	-3601.43	-37308.40	6.189
10	P	1	SND	-9428.98	-424.32	-3506.03	-9428.98	-4217.53	-36656.30	10.448
11	P	1	SND	-22150.70	-420.60	11981.30	-22150.70	-3641.67	101102.00	8.439
12	P	1	SND	-31993.70	-158.53	436.01	-235167.00	-4932.08	13234.60	7.350
13	P	9	SND	-4753.90	298.56	-4143.75	-4753.90	2571.20	-38088.60	9.189
14	P	9	SND	737.78	496.71	-6989.37	737.78	2519.61	-36445.70	5.199
15	P	9	SND	5874.08	814.83	-10360.90	5874.08	2472.59	-34963.10	3.328
16	T	1	SND	-21005.90	1244.32	58137.90	-21005.90	2597.46	103456.00	1.780
17	P	9	SND	-2047.52	-3312.63	12198.20	-2047.52	-15181.50	56218.50	4.607

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1	P	18	SLE R	-31074.80	-618.03	-402.14	9.74	130.74

Relazione di calcolo

1	P	20	SLE Q	-28377.50	-585.19	-343.15	8.97	120.07
2	P	18	SLE R	-9363.94	-138.43	-324.93	9.95	132.57
2	P	20	SLE Q	-8554.68	-130.19	-291.75	9.11	121.19
3	P	18	SLE R	-21481.90	-403.51	669.45	11.28	149.62
3	P	20	SLE Q	-19593.90	-382.87	618.08	10.41	137.69
4	P	18	SLE R	-21013.60	-332.67	318.87	9.94	134.14
4	P	20	SLE Q	-19153.60	-315.41	297.05	9.16	123.28
5	P	18	SLE R	-20589.20	-271.83	92.66	8.93	122.49
5	P	20	SLE Q	-18755.90	-257.52	88.84	8.21	112.39
6	P	18	SLE R	-30158.90	-313.64	-169.06	7.92	111.01
6	P	20	SLE Q	-27461.70	-296.66	-149.38	7.26	101.55
7	P	18	SLE R	-9888.34	-74.53	-13.73	7.16	101.96
7	P	20	SLE Q	-8995.06	-70.34	-12.01	6.55	93.06
8	P	18	SLE R	-20041.70	-163.02	-30.82	7.73	109.24
8	P	20	SLE Q	-18237.70	-154.20	-27.04	7.08	99.84
9	P	18	SLE R	-19831.40	-110.89	-20.89	7.30	104.76
9	P	20	SLE Q	-18036.60	-104.75	-19.39	6.67	95.54
10	P	18	SLE R	-19627.90	-58.86	-0.09	6.90	100.57
10	P	20	SLE Q	-17841.80	-55.41	-1.83	6.29	91.51
11	P	18	SLE R	-29243.10	-9.24	64.01	6.20	92.79
11	P	20	SLE Q	-26545.80	-8.13	44.39	5.62	84.06
12	P	18	SLE R	-9889.05	17.94	-17.86	6.41	94.63
12	P	20	SLE Q	-8952.69	17.18	-16.38	5.82	85.81
13	P	18	SLE R	-19125.10	48.91	-23.11	6.62	96.86
13	P	20	SLE Q	-17364.20	46.82	-26.09	6.02	88.00
14	P	18	SLE R	-18707.30	108.43	-160.56	6.75	97.18
14	P	20	SLE Q	-16972.40	103.34	-153.87	6.18	88.73
15	P	18	SLE R	-18163.70	176.30	-446.82	7.61	106.87
15	P	20	SLE Q	-16463.60	167.82	-417.84	6.98	97.76
16	T	18	SLE R	-28098.30	371.24	355.35	7.92	109.47
16	T	20	SLE Q	-25401.00	352.52	286.61	7.21	99.35
17	P	18	SLE R	-16981.70	-126.42	441.16	4.51	64.13
17	P	20	SLE Q	-15489.70	-133.37	520.39	4.30	60.70

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	40250.10	2.50	64480.20	109951.00	1.602
2	P	1	16410.60	2.50	20224.80	33353.10	1.232
3	P	9	25251.70	2.50	42352.50	69844.50	1.677
4	P	9	28821.30	2.50	42352.50	69844.50	1.469
5	P	9	29797.10	2.50	42352.50	69844.50	1.421
6	P	1	40250.10	2.50	64480.20	109813.00	1.602
7	P	1	10418.90	2.50	20224.80	33353.10	1.941
8	P	1	29831.20	2.50	42352.50	70336.50	1.420
9	P	1	29835.10	2.50	42352.50	70994.20	1.420
10	P	1	29864.70	2.50	42352.50	71244.70	1.418
11	P	1	40250.10	2.50	64480.20	109675.00	1.602
12	P	1	10546.10	2.50	20224.80	33353.10	1.918
13	P	9	29772.70	2.50	42352.50	70550.50	1.423
14	P	9	28758.50	2.50	42352.50	69844.50	1.473
15	P	9	25130.80	2.50	42352.50	69844.50	1.685
16	P	1	40250.10	2.50	64480.20	109537.00	1.602

Numero del nucleo n. 235

Nodi: 1011 -30690 -30689 -30688 -30687 -14303 1020

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-54932.70	1278.97	-2021.61	-878588.00	20995.20	-32573.60	15.994
2	P	17	SLU	-54566.00	1302.24	-1817.96	-878588.00	21048.40	-29519.00	16.101
3	P	17	SLU	-54199.40	1325.50	-1614.31	-54199.40	21143.30	-25407.80	15.825
4	P	17	SLU	-53832.80	1348.77	-1410.66	-53832.80	21150.20	-21864.40	15.586
5	P	17	SLU	-53466.10	1372.03	-1207.01	-53466.10	21162.10	-18692.40	15.451
6	P	17	SLU	-53099.50	1395.30	-1003.36	-53099.50	21201.70	-15121.20	15.153
7	P	17	SLU	-46495.40	-1818.53	1160.41	-46495.40	-20654.50	12963.90	11.304
8	P	17	SLU	-46077.90	-1805.56	1395.82	-46077.90	-20587.80	15981.00	11.420
9	P	17	SLU	-45660.50	-1792.59	1631.23	-45660.50	-20517.60	18726.90	11.461
10	P	17	SLU	-45243.10	-1779.62	1866.65	-45243.10	-20462.90	21524.30	11.515
11	P	17	SLU	-33091.80	1582.33	-1172.11	-33091.80	19332.60	-14224.90	12.189

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	6749.11	6746.36	-44479.70	6749.11	6984.43	-46278.60	1.040
2	P	5	SND	7031.14	4911.45	-37750.70	7031.14	6412.41	-48405.10	1.283
3	P	5	SND	7313.18	3079.23	-31049.60	7313.18	5403.07	-51613.20	1.663
4	P	5	SND	7595.21	1287.96	-24400.60	7595.21	2812.07	-58388.40	2.392
5	P	13	SND	7458.03	2399.08	-17974.50	7458.03	6396.48	-48247.30	2.684
6	P	13	SND	7740.07	4227.38	-11833.90	7740.07	8559.82	-24349.80	2.054
7	P	13	SND	13514.10	-4872.95	6783.81	13514.10	-9739.56	13386.40	1.982
8	P	13	SND	13835.20	-2921.13	7913.13	13835.20	-8078.86	21842.40	2.761
9	P	5	SND	13213.40	-1666.98	14346.20	13213.40	-5636.22	47660.80	3.323
10	T	5	SND	13855.60	-5552.56	29210.70	13855.60	-7568.66	39324.40	1.347
11	P	5	SND	-5898.93	4193.71	-10645.20	-5898.93	9966.25	-25308.60	2.377

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-40105.50	892.73	-1367.56	14.92	200.14
1	P	20	SLE Q	-37228.90	891.48	-1357.60	14.25	190.17
2	P	18	SLE R	-39823.50	908.33	-1229.67	14.81	198.24
2	P	20	SLE Q	-36946.90	891.26	-1229.63	14.07	187.58
3	P	18	SLE R	-39541.50	923.92	-1091.78	14.71	196.34
3	P	20	SLE Q	-36664.80	891.04	-1101.67	13.89	184.98
4	P	18	SLE R	-39259.40	939.52	-953.89	14.60	194.44
4	P	20	SLE Q	-36382.80	890.82	-973.71	13.71	182.38
5	P	18	SLE R	-38977.40	955.12	-816.00	14.49	192.54
5	P	20	SLE Q	-36100.80	890.60	-845.75	13.54	179.79
6	P	18	SLE R	-38695.40	970.71	-678.11	14.39	190.64
6	P	20	SLE Q	-35818.70	890.38	-717.79	13.36	177.19
7	P	18	SLE R	-34081.20	-1260.01	767.10	14.92	191.24
7	P	20	SLE Q	-31623.30	-1131.98	717.15	13.66	175.58
8	P	18	SLE R	-33760.10	-1252.49	926.61	14.95	191.79
8	P	20	SLE Q	-31302.20	-1161.20	865.46	13.87	177.90
9	P	18	SLE R	-33439.00	-1244.97	1086.13	14.99	192.33
9	P	20	SLE Q	-30981.10	-1190.42	1013.76	14.08	180.21
10	T	18	SLE R	-32796.80	-1229.93	1405.16	15.05	193.42
10	T	20	SLE Q	-30339.00	-1248.86	1310.37	14.51	184.95
11	P	18	SLE R	-24545.70	1124.24	-794.92	12.17	151.52
11	P	20	SLE Q	-22868.30	1080.72	-722.50	11.51	142.83

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	22582.70	2.50	43045.80	106482.00	1.906
2	P	5	22582.70	2.50	43045.80	106482.00	1.906
3	P	5	22582.70	2.50	43045.80	106482.00	1.906
4	P	5	22582.70	2.50	43045.80	106482.00	1.906
5	P	5	22582.70	2.50	43045.80	106482.00	1.906
6	P	5	22582.70	2.50	43045.80	106482.00	1.906
7	P	5	22562.30	2.50	43045.80	106482.00	1.908
8	P	5	22562.30	2.50	43045.80	106482.00	1.908
9	P	5	22562.30	2.50	43045.80	106482.00	1.908
10	T	5	22562.30	2.50	43045.80	106482.00	1.908

Numero del nucleo n. 236

Nodi: -34424 1049 -21709 -21708 -21707 -21706 1063

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-48140.00	-790.41	-4107.33	-805773.00	-15806.50	-82785.90	16.738
2	P	17	SLU	-11480.80	-120.04	180.81	-187921.00	-3322.04	5059.58	16.368
3	P	17	SLU	-36402.30	-573.02	-3390.29	-36402.30	-9068.79	-54453.70	16.055
4	P	17	SLU	-35341.20	-476.47	-2172.11	-593265.00	-10693.40	-47799.50	16.787
5	P	17	SLU	-34966.50	-392.97	-1460.88	-593265.00	-11609.60	-43374.00	16.967
6	P	17	SLU	-47112.10	-401.05	-2000.80	-805773.00	-16271.60	-79889.10	17.103
7	P	17	SLU	-11689.10	-66.18	-55.91	-187921.00	-3938.33	-3314.63	16.077
8	P	17	SLU	-35166.00	-237.53	-760.73	-593265.00	-12389.10	-39562.00	16.870
9	P	17	SLU	-35430.20	-161.64	-540.40	-593265.00	-12135.80	-40906.70	16.745

Relazione di calcolo

10	P	17	SLU	-35702.80	-85.85	-330.50	-593265.00	-11643.60	-43406.00	16.617
11	P	17	SLU	-46084.20	-11.68	105.72	-805773.00	-10711.90	102562.00	17.485
12	P	17	SLU	-9823.68	17.25	3.56	-187921.00	5293.94	1128.20	19.129
13	P	17	SLU	-36003.50	68.40	230.06	-593265.00	10308.40	33927.90	16.478
14	P	17	SLU	-35709.90	150.08	790.76	-593265.00	7331.11	40174.10	16.613
15	P	17	SLU	-34618.30	239.57	1836.06	-593265.00	5379.58	43351.20	17.137
16	P	17	SLU	-45056.20	377.68	2212.01	-805773.00	14812.90	86448.80	17.884
17	P	17	SLU	-25213.60	-36.21	-3333.16	-805773.00	-1562.56	-112844.00	31.958

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	1	SND	-811.51	-1734.67	-49968.90	-811.51	-2474.40	-65740.50	1.316
2	P	9	SND	20933.40	-319.68	-1215.75	20933.40	-321.57	-1326.78	1.057
3	P	1	SND	35494.90	-1293.05	9141.01	35494.90	-1040.80	9798.10	1.046
4	P	9	SND	12705.30	-1040.38	14834.60	12705.30	-1296.62	18062.20	1.196
5	P	9	SND	8933.05	-899.83	13034.90	8933.05	-1308.83	19457.80	1.453
6	P	1	SND	-20.81	-1035.58	-23105.40	-20.81	-2469.20	-65419.50	2.831
7	P	1	SND	-3648.87	-193.43	-601.81	-3648.87	-1150.60	-3594.05	5.970
8	P	9	SND	1603.69	-640.33	7954.07	1603.69	-1632.86	21639.70	2.676
9	P	1	SND	5393.97	-550.47	4129.57	5393.97	-2353.24	19506.30	4.190
10	P	1	SND	207.94	-416.67	2735.81	207.94	-3069.17	20536.10	7.442
11	P	1	SND	769.91	-359.71	7574.27	769.91	-3445.45	62999.40	8.321
12	P	1	SND	13042.60	136.74	-335.56	13042.60	456.07	-2211.01	3.476
13	P	1	SND	-9925.07	256.62	4751.49	-9925.07	1382.45	26116.00	5.496
14	P	1	SND	-14483.70	264.32	7311.13	-14483.70	1031.00	28034.50	3.835
15	P	1	SND	-17006.80	324.25	8643.83	-17006.80	1055.98	28912.10	3.345
16	T	1	SND	1758.25	675.35	39358.90	1758.25	1624.28	66299.00	1.685
17	P	1	SND	-367.56	-1885.87	-13758.50	-367.56	-7474.32	-51304.10	3.733

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-35251.20	-587.88	-2935.40	15.44	211.02
1	P	20	SLE Q	-31952.30	-562.78	-2666.99	14.17	193.05
2	P	18	SLE R	-8421.94	-88.63	126.55	15.58	177.34
2	P	20	SLE Q	-7637.44	-84.07	113.53	14.19	161.58
3	P	18	SLE R	-26631.60	-426.52	-2405.80	18.49	221.96
3	P	20	SLE Q	-24117.20	-408.64	-2179.06	16.92	202.72
4	P	18	SLE R	-25876.20	-354.22	-1548.89	15.83	196.36
4	P	20	SLE Q	-23423.00	-338.83	-1404.65	14.48	179.17
5	P	18	SLE R	-25601.10	-291.71	-1046.88	14.19	180.73
5	P	20	SLE Q	-23161.60	-278.45	-949.65	12.95	164.66
6	P	18	SLE R	-34460.50	-296.97	-1442.52	11.92	168.53
6	P	20	SLE Q	-31161.60	-282.50	-1307.31	10.86	153.22
7	P	18	SLE R	-8544.34	-48.75	-39.82	10.81	151.90
7	P	20	SLE Q	-7721.48	-46.05	-36.17	9.81	137.73
8	P	18	SLE R	-25718.50	-175.51	-550.82	12.28	163.26
8	P	20	SLE Q	-23242.50	-166.39	-498.79	11.16	148.16
9	P	18	SLE R	-25893.40	-118.80	-394.40	11.58	156.98
9	P	20	SLE Q	-23388.00	-111.74	-356.23	10.49	142.13
10	P	18	SLE R	-26074.40	-62.16	-245.48	10.90	150.87
10	P	20	SLE Q	-23539.00	-57.16	-220.44	9.84	136.26
11	P	18	SLE R	-33669.80	-6.07	50.37	8.52	127.62
11	P	20	SLE Q	-30370.90	-2.22	52.37	7.68	115.04
12	P	18	SLE R	-7206.34	13.51	2.04	9.28	125.30
12	P	20	SLE Q	-6486.56	13.84	1.79	8.40	113.18
13	P	18	SLE R	-26265.80	53.14	150.47	10.06	143.83
13	P	20	SLE Q	-23686.70	54.00	139.95	9.11	130.09
14	P	18	SLE R	-26050.00	114.26	545.12	9.68	140.59
14	P	20	SLE Q	-23478.80	112.99	498.00	8.81	127.65
15	P	18	SLE R	-25272.30	181.30	1280.82	11.40	161.74
15	P	20	SLE Q	-22764.60	177.75	1163.51	10.40	147.05
16	T	18	SLE R	-32681.40	357.56	1916.42	12.36	172.73
16	T	20	SLE Q	-29382.50	348.12	1751.93	11.30	157.24
17	P	18	SLE R	-18883.40	-37.72	-2373.88	7.58	109.83
17	P	20	SLE Q	-17122.50	-53.45	-2183.37	7.02	101.13

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	27897.40	2.50	55407.90	91496.20	1.986
2	P	9	9954.36	2.50	11152.40	18391.70	1.120
3	P	1	19292.60	2.50	42352.50	69844.50	2.195
4	P	1	23409.10	2.50	42352.50	69844.50	1.809
5	P	1	23967.70	2.50	42352.50	69844.50	1.767
6	P	1	27897.40	2.50	55407.90	91377.50	1.986
7	P	1	3754.46	2.50	11152.40	18875.30	2.970

Relazione di calcolo

8	P	1	24143.00	2.50	42352.50	69844.50	1.754
9	P	1	24340.90	2.50	42352.50	69844.50	1.740
10	P	1	24142.70	2.50	42352.50	69844.50	1.754
11	P	1	27897.40	2.50	55407.90	91374.40	1.986
12	P	1	3946.97	2.50	11152.40	18391.70	2.826
13	P	1	23950.60	2.50	42352.50	71318.40	1.768
14	P	1	23330.10	2.50	42352.50	71995.30	1.815
15	P	1	18949.70	2.50	42352.50	72370.00	2.235
16	T	1	27897.40	2.50	55407.90	91374.40	1.986

Numero del nucleo n. 237

Nodi: -35802 -29335 -31418 -31417 -31416 -31415 -31414 1029

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	TP	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-54286.20	-404.83	-2598.84	-1071770.00	-21826.10	-133661.00	19.743
2	P	17	SLU	-46351.70	-212.66	-2546.16	-906980.00	-10584.80	-127196.00	19.567
3	P	17	SLU	-53404.00	-255.98	-1686.04	-1071770.00	-21006.90	-138194.00	20.069
4	P	17	SLU	-44938.70	-131.35	-984.57	-906980.00	-14662.00	-112859.00	20.183
5	P	17	SLU	-52521.70	-107.12	-773.25	-1071770.00	-20251.30	-142434.00	20.406
6	P	17	SLU	-44456.20	-14.74	-294.49	-906980.00	-7870.10	-133965.00	20.402
7	P	17	SLU	-51639.50	41.73	139.54	-1071770.00	27106.20	89789.40	20.755
8	P	17	SLU	-43797.90	95.48	511.19	-906980.00	17391.30	94000.80	20.708
9	P	17	SLU	-50757.20	190.59	1052.33	-1071770.00	22500.00	127728.00	21.116
10	P	17	SLU	-40719.50	122.62	3294.71	-906980.00	5478.25	132006.00	22.274

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	6957.98	-4069.67	-77175.10	6957.98	-4583.29	-96437.40	1.249
2	P	5	SND	28433.50	2534.03	35280.20	28433.50	4045.97	53111.70	1.495
3	P	13	SND	7636.63	-2465.33	-51760.00	7636.63	-4574.36	-96090.30	1.856
4	P	5	SND	15930.70	1216.78	25335.20	15930.70	3058.41	61444.60	2.401
5	P	13	SND	8315.28	-878.39	-26852.60	8315.28	-3208.54	-99563.90	3.708
6	P	5	SND	7103.34	-225.65	10767.00	7103.34	-1009.66	70276.10	6.425
7	P	13	SND	8993.94	800.70	9410.71	8993.94	7538.09	86188.70	9.160
8	P	13	SND	-305.67	1446.83	8270.13	-305.67	9052.70	53121.70	6.418
9	P	13	SND	9672.61	2385.59	27740.20	9672.61	7519.33	85870.50	3.096
10	T	13	SND	-19821.40	3304.06	17384.40	-19821.40	10720.80	57673.60	3.315

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cm²>	σf <daN/cm²>
1	P	18	SLE R	-39594.20	-266.34	-1833.50	9.81	140.68
1	P	20	SLE Q	-36128.20	-247.09	-1040.83	8.55	122.59
2	P	18	SLE R	-33780.20	-136.84	-1796.29	10.04	144.10
2	P	20	SLE Q	-30936.90	-124.15	-1278.28	8.85	127.37
3	P	18	SLE R	-38915.50	-169.31	-1194.29	8.85	128.60
3	P	20	SLE Q	-35449.60	-158.57	-752.95	7.86	114.18
4	P	18	SLE R	-32735.50	-86.37	-699.66	8.53	124.43
4	P	20	SLE Q	-29836.00	-80.91	-489.02	7.65	111.68
5	P	18	SLE R	-38236.90	-72.28	-555.07	7.89	116.52
5	P	20	SLE Q	-34770.90	-70.06	-465.06	7.16	105.77
6	P	18	SLE R	-32344.90	-11.01	-215.59	7.61	113.31
6	P	20	SLE Q	-29309.70	-12.83	-240.62	6.95	103.38
7	P	18	SLE R	-37558.20	24.75	84.14	7.25	108.14
7	P	20	SLE Q	-34092.30	18.46	-177.18	6.63	98.94
8	P	18	SLE R	-31832.80	59.71	347.88	7.54	111.56
8	P	20	SLE Q	-28687.60	50.60	69.37	6.71	99.33
9	P	18	SLE R	-36879.60	121.78	723.36	7.95	116.38
9	P	20	SLE Q	-33413.60	106.98	110.70	6.83	100.18
10	T	18	SLE R	-29317.20	31.24	3064.20	9.34	137.07
10	T	20	SLE Q	-26176.40	12.07	2256.14	7.82	115.38

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	40453.90	2.50	49241.60	121808.00	1.217
2	P	13	35119.30	2.50	41865.70	103563.00	1.192
3	P	13	40453.90	2.50	49241.60	121808.00	1.217

Relazione di calcolo

4	P	13	38069.50	2.50	41865.70	103563.00	1.100
5	P	13	40453.90	2.50	49241.60	121808.00	1.217
6	P	13	38160.10	2.50	41865.70	103563.00	1.097
7	P	13	40453.90	2.50	49241.60	121808.00	1.217
8	P	13	37742.70	2.50	41865.70	103609.00	1.109
9	P	13	40453.90	2.50	49241.60	121808.00	1.217
10	P	13	22264.30	2.50	41865.70	106596.00	1.880

Numero del nucleo n. 238

Nodi: 1081 -24959 -24958 -24940 -24957 1083

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	TP	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-65783.60	-4823.81	-2875.21	-65783.60	-13656.50	-8060.53	2.824
2	P	17	SLU	-65565.30	-4101.18	-2364.34	-65565.30	-13635.90	-7887.36	3.328
3	P	17	SLU	-65347.10	-3378.54	-1853.47	-65347.10	-13632.80	-7367.22	4.021
4	P	17	SLU	-65128.80	-2655.90	-1342.60	-65128.80	-13655.80	-6934.83	5.146
5	P	17	SLU	-64910.50	-1933.26	-831.73	-64910.50	-13631.40	-5798.12	7.039
6	P	17	SLU	-64692.20	-1210.63	-320.86	-596043.00	-13627.60	-3571.82	9.214
7	P	17	SLU	-64473.90	-487.99	190.01	-596043.00	-13577.00	5216.76	9.245
8	P	17	SLU	-64255.60	234.68	700.90	-596043.00	11553.10	34151.90	9.276
9	P	17	SLU	-64037.40	957.31	1211.76	-596043.00	13229.00	16811.20	9.308
10	P	17	SLU	-63819.10	1679.95	1722.63	-63819.10	13345.00	13899.40	8.008
11	P	17	SLU	-63600.80	2402.59	2233.51	-63600.80	13373.30	12437.50	5.567
12	P	17	SLU	-63382.50	3125.22	2744.38	-63382.50	13380.90	11729.90	4.278
13	T	17	SLU	-62946.00	4570.50	3766.14	-62946.00	13349.60	11005.50	2.921
14	P	17	SLU	-40600.80	-3167.94	-3047.96	-40600.80	-11423.60	-11176.40	3.635

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	13	SND	-27962.00	-5837.54	-11634.10	-27962.00	-6655.21	-13201.30	1.136
2	P	13	SND	-27794.10	-4990.27	-10723.00	-27794.10	-6575.77	-13841.60	1.296
3	P	13	SND	-27626.20	-4143.16	-9823.52	-27626.20	-6499.60	-15196.30	1.550
4	P	13	SND	-27458.30	-3296.32	8883.29	-27458.30	-6431.48	16924.00	1.911
5	P	13	SND	-27290.40	-2450.03	8316.68	-27290.40	-6358.16	21181.70	2.551
6	P	1	SND	-26755.80	-1464.78	-8215.86	-26755.80	-4954.06	-26820.00	3.268
7	P	9	SND	-27184.10	-752.27	7422.46	-27184.10	-3031.18	31518.10	4.244
8	P	9	SND	-27016.10	260.61	6946.89	-27016.10	1289.34	34062.40	4.903
9	P	1	SND	-26252.10	898.50	6584.77	-26252.10	4085.65	29165.80	4.431
10	P	13	SND	-26450.80	1803.40	6036.12	-26450.80	6289.85	21015.30	3.482
11	P	13	SND	-26282.90	2647.89	5789.84	-26282.90	6411.06	14076.40	2.429
12	P	13	SND	-26115.00	3494.01	5664.51	-26115.00	6726.49	10769.10	1.908
13	T	5	SND	-25183.00	4837.86	7393.11	-25183.00	6696.11	10426.60	1.403
14	P	13	SND	-13572.70	-4569.21	-12533.40	-13572.70	-5163.50	-14172.60	1.131

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1	P	18	SLE R	-48070.90	-3368.00	-2004.81	49.12	579.21
1	P	20	SLE Q	-44313.60	-2975.47	-1624.58	43.09	511.83
2	P	18	SLE R	-47903.00	-2863.93	-1646.46	42.14	511.28
2	P	20	SLE Q	-44145.70	-2530.85	-1327.54	37.24	454.37
3	P	18	SLE R	-47735.10	-2359.86	-1288.12	36.24	450.82
3	P	20	SLE Q	-43977.80	-2086.23	-1030.51	32.29	403.33
4	P	18	SLE R	-47567.20	-1855.79	-929.78	31.35	398.89
4	P	20	SLE Q	-43809.90	-1641.61	-733.48	28.14	359.21
5	P	18	SLE R	-47399.30	-1351.73	-571.44	26.83	350.66
5	P	20	SLE Q	-43642.00	-1196.98	-436.45	24.18	317.03
6	P	18	SLE R	-47231.40	-847.66	-213.11	22.31	302.42
6	P	20	SLE Q	-43474.10	-752.36	-139.43	20.22	274.85
7	P	18	SLE R	-47063.40	-343.59	145.23	18.29	261.25
7	P	20	SLE Q	-43306.20	-307.74	157.60	16.81	240.33
8	P	18	SLE R	-46895.50	160.50	503.58	17.47	255.07
8	P	20	SLE Q	-43138.30	136.90	454.64	15.97	233.60
9	P	18	SLE R	-46727.60	664.57	861.92	21.88	301.66
9	P	20	SLE Q	-42970.40	581.52	751.67	19.83	274.13
10	P	18	SLE R	-46559.70	1168.63	1220.26	26.30	348.24
10	P	20	SLE Q	-42802.50	1026.15	1048.70	23.68	314.67
11	P	18	SLE R	-46391.80	1672.70	1578.60	30.71	394.83

Relazione di calcolo

11	P	20	SLE Q	-42634.60	1470.77	1345.73	27.53	355.19
12	P	18	SLE R	-46223.90	2176.77	1936.94	35.45	445.00
12	P	20	SLE Q	-42466.70	1915.39	1642.77	31.56	397.65
13	T	18	SLE R	-45888.10	3184.91	2653.64	48.32	573.84
13	T	20	SLE Q	-42130.80	2804.64	2236.84	42.31	506.08
14	P	18	SLE R	-30260.60	-2228.62	-2188.89	34.92	405.18
14	P	20	SLE Q	-27852.80	-1948.07	-1885.63	30.35	355.86

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	5229.59	2.50	31244.40	81376.90	5.975
2	P	5	5229.59	2.50	31244.40	81351.80	5.975
3	P	5	5229.59	2.50	31244.40	81326.70	5.975
4	P	5	5229.59	2.50	31244.40	81301.60	5.975
5	P	5	5229.59	2.50	31244.40	81276.50	5.975
6	P	5	5229.59	2.50	31244.40	81251.50	5.975
7	P	5	5229.59	2.50	31244.40	81226.40	5.975
8	P	5	5229.59	2.50	31244.40	81201.30	5.975
9	P	5	5229.59	2.50	31244.40	81176.20	5.975
10	P	5	5229.59	2.50	31244.40	81151.10	5.975
11	P	5	5229.59	2.50	31244.40	81126.10	5.975
12	P	5	5229.59	2.50	31244.40	81101.00	5.975
13	P	5	5229.59	2.50	31244.40	81075.90	5.975

Numero del nucleo n. 239

Nodi: -35837 -29599 -30920 -30919 -30918 -30917 -30916 1028

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-57661.40	569.84	-1034.44	-961623.00	20248.20	-37391.30	16.677
2	P	17	SLU	-49528.50	332.48	-1513.72	-812569.00	14360.90	-68050.10	16.406
3	P	17	SLU	-56779.10	353.35	-684.90	-961623.00	20160.40	-39226.70	16.936
4	P	17	SLU	-48056.10	189.57	-474.83	-812569.00	16115.30	-40543.10	16.909
5	P	17	SLU	-55896.90	136.86	-335.37	-961623.00	19801.80	-48468.20	17.203
6	P	17	SLU	-47351.00	13.75	-157.43	-812569.00	8657.62	-94528.90	17.160
7	P	17	SLU	-55014.60	-79.63	14.17	-961623.00	-20126.70	3585.64	17.479
8	P	17	SLU	-46524.30	-157.29	235.29	-812569.00	-16317.50	24798.90	17.465
9	P	17	SLU	-54132.30	-296.12	363.71	-961623.00	-20187.20	25133.70	17.764
10	P	17	SLU	-43503.40	-249.33	2411.29	-812569.00	-8910.51	81356.40	18.678

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	5	SND	-11550.70	3701.62	-67995.80	-11550.70	4007.13	-74632.10	1.098
2	P	13	SND	16909.60	2146.05	31893.20	16909.60	2518.48	34062.10	1.066
3	P	5	SND	-10872.00	2303.38	-45707.10	-10872.00	3996.44	-74246.30	1.625
4	P	5	SND	3724.63	1328.50	22474.70	3724.63	2704.47	40730.60	1.805
5	P	13	SND	-9283.90	-742.74	-23685.90	-9283.90	-2882.69	-76085.60	3.213
6	P	13	SND	-4465.04	254.02	9713.83	-4465.04	1474.89	47151.90	4.855
7	P	5	SND	-9514.73	-578.39	7525.01	-9514.73	-5611.19	68722.70	9.136
8	P	5	SND	-14476.30	-1152.45	6822.71	-14476.30	-6730.23	39406.40	5.778
9	P	5	SND	-8836.07	-1938.15	23660.50	-8836.07	-5593.06	68351.20	2.889
10	T	5	SND	-18742.90	-2735.22	15847.70	-18742.90	-6965.47	41089.70	2.591

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cmqs>	σf <daN/cmqs>
1	P	18	SLE R	-42309.10	383.96	-731.10	11.00	155.69
1	P	20	SLE Q	-39105.00	369.12	-641.00	10.21	144.23
2	P	18	SLE R	-36303.60	222.66	-1065.32	11.33	161.67
2	P	20	SLE Q	-33530.70	213.16	-967.78	10.49	149.53
3	P	18	SLE R	-41630.40	238.93	-486.93	10.00	144.26
3	P	20	SLE Q	-38426.30	229.09	-452.60	9.28	133.60
4	P	18	SLE R	-35221.30	128.26	-339.04	9.82	142.79
4	P	20	SLE Q	-32473.40	122.34	-322.25	9.09	132.00
5	P	18	SLE R	-40951.80	93.90	-242.76	9.01	132.84
5	P	20	SLE Q	-37747.70	89.06	-264.20	8.35	122.97
6	P	18	SLE R	-34674.60	10.81	-116.43	8.81	131.22
6	P	20	SLE Q	-31909.50	8.98	-141.13	8.13	121.15

Relazione di calcolo

7	P	18	SLE R	-40273.10	-51.12	1.42	8.50	126.25
7	P	20	SLE Q	-37069.00	-50.97	-75.80	7.89	117.15
8	P	18	SLE R	-34046.20	-103.25	155.96	8.89	130.45
8	P	20	SLE Q	-31272.60	-101.08	84.09	8.26	120.95
9	P	18	SLE R	-39594.50	-196.15	245.59	9.21	133.50
9	P	20	SLE Q	-36390.40	-191.00	112.60	8.44	122.08
10	T	18	SLE R	-31583.60	-145.22	2217.44	10.38	150.09
10	T	20	SLE Q	-28912.60	-139.23	1954.18	9.46	136.71

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	35431.20	2.50	49241.60	123558.00	1.390
2	P	5	30957.90	2.50	41865.70	103563.00	1.352
3	P	5	35431.20	2.50	49241.60	123455.00	1.390
4	P	5	33370.70	2.50	41865.70	103563.00	1.255
5	P	5	35431.20	2.50	49241.60	123352.00	1.390
6	P	5	33419.80	2.50	41865.70	104359.00	1.253
7	P	5	35431.20	2.50	49241.60	123249.00	1.390
8	P	5	33117.40	2.50	41865.70	105746.00	1.264
9	P	5	35431.20	2.50	49241.60	123146.00	1.390
10	P	5	20023.60	2.50	41865.70	106433.00	2.091

Numero del nucleo n. 240

Nodi: -35041 -33140 -33160 -33159 1030 -33158 -33157 -33156 -33138 -35079

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-44382.20	1346.61	2565.38	-44382.20	32676.00	61149.00	23.926
2	P	17	SLU	-43986.80	1118.82	2256.25	-1251840.00	32523.50	65734.60	28.459
3	P	17	SLU	-43591.40	891.04	1947.13	-1251840.00	32423.20	71346.50	28.718
4	P	17	SLU	-43196.10	663.25	1638.01	-1251840.00	32167.60	80759.00	28.980
5	P	17	SLU	-42800.70	435.47	1328.88	-1251840.00	31660.50	96401.90	29.248
6	P	17	SLU	-42405.30	207.68	1019.76	-1251840.00	29307.00	138638.00	29.521
7	P	17	SLU	-42009.90	-20.10	710.63	-1251840.00	-5528.26	261896.00	29.799
8	P	17	SLU	-41614.50	-247.90	401.50	-1251840.00	-32600.70	53056.70	30.082
9	P	17	SLU	-41219.10	-475.68	92.37	-1251840.00	-32572.00	6609.63	30.370
10	P	17	SLU	-40823.70	-703.47	-216.75	-1251840.00	-32645.40	-10045.90	30.665
11	P	17	SLU	-40428.30	-931.25	-525.87	-1251840.00	-32824.20	-18810.80	30.965
12	P	17	SLU	-40032.90	-1159.04	-835.00	-40032.90	-32677.00	-23398.00	28.135
13	T	17	SLU	-39242.20	-1614.61	-1453.25	-39242.20	-32650.20	-28903.20	20.073
14	P	17	SLU	-24281.40	1621.98	489.57	-24281.40	30885.30	9274.64	19.034

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M' ydy <daNm>	M' ydz <daNm>	Sic.
1	P	9	SND	-14273.80	6789.85	135472.00	-14273.80	7402.50	137691.00	1.017
2	P	9	SND	-13969.70	5829.71	117604.00	-13969.70	7397.46	137528.00	1.170
3	P	9	SND	-13665.50	4869.73	99801.60	-13665.50	7392.41	137365.00	1.377
4	P	9	SND	-13361.40	3910.05	82107.60	-13361.40	7387.36	137202.00	1.672
5	P	9	SND	-13057.20	2950.92	64607.40	-13057.20	7382.29	137038.00	2.122
6	P	1	SND	-11528.40	2267.67	-46217.20	-11528.40	7357.03	-136222.00	2.948
7	P	9	SND	-12448.90	-1203.25	31393.10	-12448.90	-4849.60	145281.00	4.627
8	P	1	SND	-10920.20	-462.59	19147.80	-10920.20	-2392.14	152284.00	7.952
9	P	1	SND	-10616.00	-1081.79	21466.10	-10616.00	-7341.78	135732.00	6.324
10	P	5	SND	-10817.20	-2152.79	32986.20	-10817.20	-9414.38	128303.00	3.892
11	P	1	SND	-10007.70	-3271.81	49284.70	-10007.70	-9394.54	127884.00	2.596
12	P	1	SND	-9703.58	-4374.46	65965.50	-9703.58	-9387.47	127732.00	1.937
13	T	1	SND	-9095.30	-6581.79	100355.00	-9095.30	-9368.79	127367.00	1.270
14	P	1	SND	-12312.10	7864.57	38476.20	-12312.10	18166.10	92017.50	2.388

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-32588.70	979.70	1814.21	9.70	127.51
1	P	20	SLE Q	-29555.30	872.87	1621.92	8.73	114.91
2	P	18	SLE R	-32284.60	813.84	1595.95	8.95	119.18
2	P	20	SLE Q	-29251.20	724.64	1426.23	8.05	107.38
3	P	18	SLE R	-31980.50	647.98	1377.69	8.19	110.85
3	P	20	SLE Q	-28947.00	576.41	1230.54	7.37	99.85

Relazione di calcolo

4	P	18	SLE R	-31676.30	482.12	1159.43	7.43	102.52
4	P	20	SLE Q	-28642.90	428.17	1034.85	6.69	92.32
5	P	18	SLE R	-31372.20	316.27	941.17	6.67	94.19
5	P	20	SLE Q	-28338.80	279.94	839.15	6.00	84.79
6	P	18	SLE R	-31068.00	150.41	722.92	5.92	85.86
6	P	20	SLE Q	-28034.60	131.71	643.46	5.32	77.27
7	P	18	SLE R	-30763.90	-15.45	504.66	5.27	78.66
7	P	20	SLE Q	-27730.50	-16.53	447.77	4.76	70.95
8	P	18	SLE R	-30459.70	-181.32	286.39	5.72	82.47
8	P	20	SLE Q	-27426.30	-164.77	252.08	5.15	74.28
9	P	18	SLE R	-30155.60	-347.18	68.13	6.17	86.29
9	P	20	SLE Q	-27122.20	-313.00	56.39	5.55	77.60
10	P	18	SLE R	-29851.50	-513.04	-150.12	6.76	92.19
10	P	20	SLE Q	-26818.00	-461.24	-139.30	6.08	82.87
11	P	18	SLE R	-29547.30	-678.90	-368.38	7.42	99.05
11	P	20	SLE Q	-26513.90	-609.47	-334.99	6.66	88.92
12	P	18	SLE R	-29243.20	-844.75	-586.64	8.08	105.91
12	P	20	SLE Q	-26209.70	-757.70	-530.68	7.24	94.97
13	T	18	SLE R	-28634.90	-1176.47	-1023.16	9.40	119.62
13	T	20	SLE Q	-25601.50	-1054.17	-922.06	8.41	107.08
14	P	18	SLE R	-18233.00	1175.39	364.07	7.70	91.10
14	P	20	SLE Q	-16421.70	1044.95	366.94	6.89	81.77

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	73935.70	2.50	86364.60	144595.00	1.168
2	P	9	73935.70	2.50	86364.60	144549.00	1.168
3	P	9	73935.70	2.50	86364.60	144503.00	1.168
4	P	9	73935.70	2.50	86364.60	144457.00	1.168
5	P	9	73935.70	2.50	86364.60	144410.00	1.168
6	P	9	73935.70	2.50	86364.60	144364.00	1.168
7	P	9	73935.70	2.50	86364.60	144318.00	1.168
8	P	9	73935.70	2.50	86364.60	144272.00	1.168
9	P	9	73935.70	2.50	86364.60	144225.00	1.168
10	P	9	73935.70	2.50	86364.60	144179.00	1.168
11	P	9	73935.70	2.50	86364.60	144133.00	1.168
12	P	9	73935.70	2.50	86364.60	144087.00	1.168
13	P	9	73935.70	2.50	86364.60	144040.00	1.168

Numero del nucleo n. 241

Nodi: 1078 -21944 -21943 -21942 1080

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-38919.80	-2361.43	5407.18	-38919.80	-10346.20	23933.30	4.419
2	P	17	SLU	-38721.40	-2016.27	4702.79	-38721.40	-10330.90	23928.20	5.094
3	P	17	SLU	-38522.90	-1671.12	3998.40	-38522.90	-10210.70	24908.50	6.212
4	P	17	SLU	-38324.50	-1325.97	3294.01	-38324.50	-10196.10	24901.10	7.578
5	P	17	SLU	-38126.10	-980.81	2589.64	-38126.10	-9971.67	26684.10	10.287
6	P	17	SLU	-37927.60	-635.66	1885.26	-549010.00	-9605.67	28646.40	14.475
7	P	17	SLU	-37729.20	-290.50	1180.89	-549010.00	-8437.74	33266.90	14.551
8	P	17	SLU	-37530.70	54.66	476.49	-549010.00	4690.60	43145.80	14.628
9	P	17	SLU	-37332.30	399.82	-227.88	-549010.00	11207.10	-6268.03	14.706
10	P	17	SLU	-37133.90	744.97	-932.25	-549010.00	10930.30	-13858.00	14.785
11	P	17	SLU	-36935.40	1090.13	-1636.63	-36935.40	10795.50	-16392.00	9.981
12	P	17	SLU	-36737.00	1435.28	-2341.00	-36737.00	10717.80	-17177.60	7.373
13	T	17	SLU	-36340.10	2125.59	-3749.76	-36340.10	10569.50	-18925.90	5.029
14	P	17	SLU	-19353.30	-1190.07	2074.07	-19353.30	-9215.48	16067.70	7.746

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	9	SND	-15502.90	-3320.44	19661.60	-15502.90	-3729.14	22187.80	1.128
2	P	9	SND	-15350.30	-2867.24	17249.60	-15350.30	-3720.66	22130.00	1.283
3	P	9	SND	-15197.60	-2414.41	14850.00	-15197.60	-3712.18	22072.20	1.488
4	P	9	SND	-15045.00	-1962.20	12469.20	-15045.00	-3482.02	22548.40	1.808
5	P	9	SND	-14892.30	-1511.10	10119.60	-14892.30	-3252.67	22953.10	2.266
6	P	9	SND	-14739.70	-1062.31	7826.51	-14739.70	-3249.78	22923.10	2.931
7	P	9	SND	-14587.00	-619.67	5647.80	-14587.00	-2795.47	23645.50	4.191
8	P	1	SND	-11235.50	281.92	3591.01	-11235.50	1718.50	24147.40	6.721

Relazione di calcolo

9P	1	SND	-11082.80	514.18	2943.01	-11082.80	3547.66	20900.20	7.096
10P	9	SND	-14129.10	814.42	-4326.35	-14129.10	3901.04	-21224.50	4.902
11P	9	SND	-13976.50	1252.83	-6170.61	-13976.50	4132.15	-20540.20	3.328
12P	1	SND	-10624.90	2047.96	-5821.38	-10624.90	5076.68	-14114.90	2.431
13T	9	SND	-13518.50	2602.81	-12941.40	-13518.50	4113.81	-20430.50	1.579
14P	1	SND	-6089.33	-3487.67	6100.21	-6089.33	-4908.80	8674.92	1.418

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _t <daN/cm²>
1P	18	SLE	R	-28517.10	-1641.74	3823.91	34.95	433.65
1P	20	SLE	Q	-26080.10	-1632.10	3395.12	33.49	410.83
2P	18	SLE	R	-28364.50	-1402.29	3327.25	30.28	382.03
2P	20	SLE	Q	-25927.40	-1393.30	2956.89	28.82	360.04
3P	18	SLE	R	-28211.90	-1162.85	2830.59	26.18	335.99
3P	20	SLE	Q	-25774.80	-1154.50	2518.65	24.72	314.63
4P	18	SLE	R	-28059.20	-923.40	2333.93	22.63	295.63
4P	20	SLE	Q	-25622.10	-915.70	2080.42	21.20	275.04
5P	18	SLE	R	-27906.60	-683.95	1837.28	19.48	259.64
5P	20	SLE	Q	-25469.50	-676.90	1642.20	18.14	240.34
6P	18	SLE	R	-27753.90	-444.50	1340.62	16.40	224.49
6P	20	SLE	Q	-25316.90	-438.11	1203.97	15.19	206.94
7P	18	SLE	R	-27601.30	-205.06	843.98	13.32	189.34
7P	20	SLE	Q	-25164.20	-199.31	765.75	12.24	173.54
8P	18	SLE	R	-27448.60	34.40	347.31	10.81	159.91
8P	20	SLE	Q	-25011.60	39.50	327.51	9.94	146.71
9P	18	SLE	R	-27296.00	273.85	-149.34	12.32	173.26
9P	20	SLE	Q	-24858.90	278.30	-110.72	11.40	159.46
10P	18	SLE	R	-27143.30	513.29	-645.99	15.29	206.78
10P	20	SLE	Q	-24706.30	517.10	-548.94	14.24	191.23
11P	18	SLE	R	-26990.70	752.74	-1142.64	18.25	240.29
11P	20	SLE	Q	-24553.60	755.90	-987.16	17.08	222.99
12P	18	SLE	R	-26838.10	992.18	-1639.29	21.28	274.40
12P	20	SLE	Q	-24401.00	994.70	-1425.39	20.03	255.97
13T	18	SLE	R	-26532.80	1471.08	-2632.59	28.89	359.10
13T	20	SLE	Q	-24095.70	1472.29	-2301.84	27.77	340.53
14P	18	SLE	R	-14667.20	-819.25	1472.45	16.18	198.74
14P	20	SLE	Q	-13289.80	-835.99	1167.52	15.43	185.81

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	10037.80	2.50	28294.00	72297.50	2.819
2	P	9	10037.80	2.50	28294.00	72274.70	2.819
3	P	9	10037.80	2.50	28294.00	72252.00	2.819
4	P	9	10037.80	2.50	28294.00	72229.30	2.819
5	P	9	10037.80	2.50	28294.00	72206.60	2.819
6	P	9	10037.80	2.50	28294.00	72183.90	2.819
7	P	9	10037.80	2.50	28294.00	72161.20	2.819
8	P	9	10037.80	2.50	28294.00	72138.50	2.819
9	P	9	10037.80	2.50	28294.00	72115.70	2.819
10	P	9	10037.80	2.50	28294.00	72093.00	2.819
11	P	9	10037.80	2.50	28294.00	72070.30	2.819
12	P	9	10037.80	2.50	28294.00	72047.60	2.819
13	P	9	10037.80	2.50	28294.00	72024.90	2.819

Numero del nucleo n. 321

Nodi: -37822 -37801 -37802 -37803 -37804 -37682

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-28721.20	1431.04	-94.94	-28721.20	13032.80	-784.70	9.104
2P	17	SLU		-28522.90	1266.27	-81.13	-28522.90	13016.20	-785.53	10.277
3P	17	SLU		-28324.70	1101.50	-67.32	-28324.70	12999.70	-786.36	11.801
4P	17	SLU		-28126.40	936.73	-53.52	-28126.40	12983.10	-787.18	13.863
5P	17	SLU		-27928.20	771.97	-39.71	-27928.20	12991.50	-664.77	16.829
6P	17	SLU		-27729.90	607.20	-25.90	-27729.90	13000.00	-539.00	20.891
7P	17	SLU		-27531.70	442.43	-12.10	-27531.70	13041.80	-276.51	21.041
8P	17	SLU		-27333.40	277.66	1.71	-27333.40	13071.60	0.00	21.194
9P	17	SLU		-27135.20	112.90	15.52	-27135.20	12914.70	1728.98	21.349

Relazione di calcolo

10	P	17	SLU	-26936.90	-51.87	29.32	-579305.00	-12974.10	7238.17	21.506
11	P	17	SLU	-26738.70	-216.63	43.13	-579305.00	-12934.20	2564.43	21.665
12	P	17	SLU	-26540.40	-381.40	56.94	-579305.00	-12883.30	1975.50	21.827
13	T	17	SLU	-26143.90	-710.94	84.55	-26143.90	-12816.00	1460.81	18.017
14	P	17	SLU	-13234.60	296.13	-344.43	-13234.60	11515.10	-13528.90	39.112

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	-16258.20	1746.50	-9975.26	-16258.20	4951.17	-27367.90	2.746
2	P		5SND	-17076.10	1616.92	-7207.19	-17076.10	5766.86	-25626.00	3.556
3	P		5SND	-16923.60	1423.41	-5718.52	-16923.60	6271.18	-24349.20	4.267
4	P	13	SND	-15800.70	1234.25	4953.50	-15800.70	6209.76	24103.90	4.875
5	P		9SND	-15738.20	1094.23	5659.53	-15738.20	5303.39	26337.20	4.661
6	P	13	SND	-15495.70	952.91	7773.57	-15495.70	3491.74	30263.00	3.890
7	P	13	SND	-15343.20	839.62	10318.80	-15343.20	2542.99	31768.60	3.078
8	P	13	SND	-15190.70	746.75	13085.10	-15190.70	1859.89	32843.50	2.510
9	P	13	SND	-15038.20	673.35	15954.20	-15038.20	1540.11	33259.50	2.085
10	P		5SND	-15856.10	-714.36	-18823.80	-15856.10	-1545.15	-33511.60	1.781
11	P		5SND	-15703.60	-896.69	-21753.60	-15703.60	-1544.20	-33480.10	1.539
12	P	13	SND	-14580.70	-919.21	24809.50	-14580.70	-1229.07	33504.10	1.350
13	T	13	SND	-14275.70	-1281.10	30798.00	-14275.70	-1534.60	33008.80	1.072
14	P		5SND	-8044.82	3099.09	-3865.21	-8044.82	7592.50	-9394.31	2.438

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _t <daN/cmq>
1	P	18	SLE R	-21192.60	994.30	-46.94	15.16	188.93
1	P	20	SLE Q	-19461.10	966.59	-88.60	14.48	179.34
2	P	18	SLE R	-21040.10	878.01	-39.22	14.17	178.60
2	P	20	SLE Q	-19308.60	853.76	-75.74	13.46	168.81
3	P	18	SLE R	-20887.60	761.73	-31.49	13.19	168.43
3	P	20	SLE Q	-19156.10	740.94	-62.89	12.50	158.75
4	P	18	SLE R	-20735.10	645.44	-23.77	12.21	158.25
4	P	20	SLE Q	-19003.60	628.11	-50.03	11.54	148.71
5	P	18	SLE R	-20582.60	529.15	-16.04	11.23	148.08
5	P	20	SLE Q	-18851.10	515.29	-37.17	10.57	138.67
6	P	18	SLE R	-20430.10	412.87	-8.32	10.26	137.90
6	P	20	SLE Q	-18698.60	402.46	-24.32	9.61	128.62
7	P	18	SLE R	-20277.60	296.58	-0.59	9.28	127.73
7	P	20	SLE Q	-18546.10	289.64	-11.46	8.65	118.58
8	P	18	SLE R	-20125.10	180.29	7.13	8.33	117.95
8	P	20	SLE Q	-18393.60	176.81	1.39	7.69	108.61
9	P	18	SLE R	-19972.60	64.01	14.86	7.38	108.20
9	P	20	SLE Q	-18241.10	63.99	14.25	6.79	99.28
10	P	18	SLE R	-19820.10	-52.28	22.58	7.25	106.71
10	P	20	SLE Q	-18088.60	-48.84	27.10	6.64	97.66
11	P	18	SLE R	-19667.60	-168.57	30.30	8.13	115.31
11	P	20	SLE Q	-17936.10	-161.66	39.96	7.50	106.13
12	P	18	SLE R	-19515.10	-284.86	38.03	9.00	123.92
12	P	20	SLE Q	-17783.60	-274.49	52.82	8.35	114.61
13	T	18	SLE R	-19210.10	-517.43	53.48	10.75	141.13
13	T	20	SLE Q	-17478.60	-500.14	78.53	10.07	131.56
14	P		18SLE R	-9928.93	221.55	-254.55	5.67	75.34
14	P		20SLE Q	-8953.42	189.04	-229.94	5.03	67.12

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	12417.40	2.50	28220.30	72227.20	2.273
2	P	13	12417.40	2.50	28220.30	72204.50	2.273
3	P	13	12417.40	2.50	28220.30	72181.80	2.273
4	P	13	12417.40	2.50	28220.30	72159.10	2.273
5	P	13	12417.40	2.50	28220.30	72136.40	2.273
6	P	13	12417.40	2.50	28220.30	72113.70	2.273
7	P	13	12417.40	2.50	28220.30	72091.00	2.273
8	P	13	12417.40	2.50	28220.30	72068.30	2.273
9	P	13	12417.40	2.50	28220.30	72045.60	2.273
10	P	13	12417.40	2.50	28220.30	72022.90	2.273
11	P	13	12417.40	2.50	28220.30	72000.30	2.273
12	P	13	12417.40	2.50	28220.30	71977.60	2.273
13	P	13	12417.40	2.50	28220.30	71954.90	2.273

Numero del nucleo n. 322

Nodi: 2092 -37681 -38145 -38146 -38147 -38700

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-31173.90	706.12	-374.43	-31173.90	13450.20	-7179.00	19.076
2	P	17	SLU	-28472.80	503.23	-854.80	-555338.00	11303.60	-19233.40	19.504
3	P	17	SLU	-27530.30	444.72	-391.49	-555338.00	11601.40	-10240.30	20.172
4	P	17	SLU	-27053.80	364.84	-187.15	-555338.00	11607.40	-5990.90	20.527
5	P	17	SLU	-26830.80	281.68	-128.53	-555338.00	11599.70	-5301.38	20.698
6	P	17	SLU	-3397.52	30.47	-2.42	-72174.80	1683.34	-140.74	21.243
7	P	17	SLU	-26683.20	197.15	-117.00	-555338.00	11599.30	-6859.86	20.812
8	P	17	SLU	-26534.70	112.14	-105.29	-555338.00	11479.20	-10678.00	20.929
9	P	17	SLU	-26386.20	27.02	-91.75	-555338.00	9555.56	-33236.60	21.047
10	P	17	SLU	-29424.90	-59.49	-68.45	-627514.00	-13148.10	-15030.60	21.326
11	P	17	SLU	-26054.50	-142.45	-50.10	-555338.00	-11543.00	-4111.27	21.314
12	P	17	SLU	-25677.10	-225.59	81.29	-555338.00	-11493.10	4136.58	21.628
13	P	17	SLU	-24926.80	-303.57	408.64	-555338.00	-11105.40	15096.70	22.279
14	T	17	SLU	-22023.30	-422.35	2150.59	-22023.30	-7168.71	36508.30	16.976

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	-19887.80	1280.89	-9048.23	-19887.80	4682.70	-34180.50	3.775
2	P	5	SND	-15367.20	905.73	-6075.77	-15367.20	3970.09	-26899.40	4.426
3	P	5	SND	-14731.80	837.43	-5389.06	-14731.80	4188.48	-26115.60	4.849
4	P	5	SND	-13878.30	725.09	-5705.42	-13878.30	3493.57	-27553.00	4.829
5	P	13	SND	-14993.10	591.65	6654.21	-14993.10	2257.89	27910.00	4.191
6	P	13	SND	5027.40	85.16	-41.15	5027.40	89.18	-88.24	1.268
7	P	13	SND	-14004.50	480.30	8301.55	-14004.50	1547.79	28436.20	3.425
8	P	13	SND	-12891.20	372.66	10187.70	-12891.20	906.52	28753.00	2.822
9	P	13	SND	-11708.30	272.32	12207.20	-11708.30	428.50	29048.00	2.379
10	P	5	SND	-18542.40	-308.69	-20850.90	-18542.40	-463.29	-41119.50	1.972
11	P	13	SND	-9233.55	-311.32	16444.90	-9233.55	-428.13	28234.00	1.717
12	P	13	SND	-7916.39	-372.80	18746.40	-7916.39	-427.90	27791.40	1.482
13	P	13	SND	-6066.39	-446.51	21034.00	-6066.39	-426.98	27148.20	1.291
14	T	13	SND	2339.93	-584.59	22368.00	2339.93	-433.67	24268.80	1.085

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
1	P	18	SLE R	-22957.90	504.23	-235.32	11.28	150.81
1	P	20	SLE Q	-21039.60	486.07	-308.43	10.67	142.10
2	P	18	SLE R	-20946.60	357.87	-584.86	11.76	159.22
2	P	20	SLE Q	-19132.20	345.74	-586.75	11.01	148.44
3	P	18	SLE R	-20267.50	314.30	-260.99	10.47	143.00
3	P	20	SLE Q	-18515.40	304.42	-286.25	9.81	133.38
4	P	18	SLE R	-19917.20	255.61	-119.84	9.56	132.36
4	P	20	SLE Q	-18191.70	248.52	-149.12	8.94	123.23
5	P	18	SLE R	-19745.10	194.58	-81.14	8.92	125.33
5	P	20	SLE Q	-18028.80	190.38	-104.35	8.31	116.32
6	P	18	SLE R	-2490.72	20.81	-1.63	9.27	112.93
6	P	20	SLE Q	-2284.71	20.42	-1.73	8.55	104.58
7	P	18	SLE R	-19626.30	132.58	-75.65	8.36	119.42
7	P	20	SLE Q	-17914.00	131.29	-89.65	7.76	110.42
8	P	18	SLE R	-19507.00	70.25	-70.17	7.79	113.49
8	P	20	SLE Q	-17799.10	71.89	-75.06	7.20	104.50
9	P	18	SLE R	-19387.80	7.84	-63.47	7.23	107.52
9	P	20	SLE Q	-17684.40	12.42	-59.45	6.64	98.55
10	P	18	SLE R	-21612.50	-57.11	-51.05	7.31	107.55
10	P	20	SLE Q	-19694.20	-48.90	-32.61	6.62	97.45
11	P	18	SLE R	-19125.20	-116.38	-39.92	7.97	114.38
11	P	20	SLE Q	-17432.70	-106.00	-18.86	7.22	103.77
12	P	18	SLE R	-18843.20	-177.29	50.59	8.17	115.37
12	P	20	SLE Q	-17166.60	-164.09	74.71	7.49	105.69
13	P	18	SLE R	-18295.40	-234.35	280.82	8.89	123.37
13	P	20	SLE Q	-16654.70	-218.59	297.49	8.23	113.95
14	T	18	SLE R	-16198.30	-321.13	1517.41	11.48	155.35
14	T	20	SLE Q	-14719.00	-301.94	1449.86	10.66	144.06

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	13034.40	2.50	31244.40	80235.90	2.397
2	P	13	12754.50	2.50	27703.90	70940.20	2.172

Relazione di calcolo

3	P	13	12728.40	2.50	27703.90	70936.50	2.177
4	P	13	12637.50	2.50	27703.90	70871.30	2.192
5	P	13	12593.60	2.50	27703.90	70760.00	2.200
6	P	13	455.98	2.50	2330.79	5765.63	5.112
7	P	13	12578.50	2.50	27703.90	70613.10	2.202
8	P	13	12614.70	2.50	27703.90	70447.50	2.196
9	P	13	12577.60	2.50	27703.90	70271.60	2.203
10	P	13	13034.40	2.50	31244.40	80034.90	2.397
11	P	13	12619.10	2.50	27703.90	69903.70	2.195
12	P	13	12689.80	2.50	27703.90	69707.90	2.183
13	P	13	12793.40	2.50	27703.90	69432.80	2.165
14	T	13	7921.48	2.50	27703.90	68530.80	3.497

Numero del nucleo n. 323

Nodi: 2042 -24370 -24369 -24368 -24367 -22848 -29495 -29494 -29435 -29810 -29809 2068

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	TP	Fyk <daN/cm²>	Fyd <daN/cm²>
20.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-32320.30	466.91	1569.17	-1154670.00	20678.20	67662.90	35.726
2	P	17	SLU	-21265.50	208.38	-1852.80	-719570.00	9981.27	-86808.90	33.837
3	P	17	SLU	-20802.20	69.40	-1449.51	-719575.00	5332.90	-122712.00	34.591
4	P	17	SLU	-7632.11	-1.16	224.07	-308924.00	-0.00	21077.90	40.477
5	P	17	SLU	-20456.70	13.27	-875.08	-719570.00	931.54	-141377.00	35.175
6	P	17	SLU	-20305.60	-3.79	-417.13	-719575.00	-1805.71	-139430.00	35.437
7	P	17	SLU	-32348.20	-5.05	466.42	-1154680.00	-732.22	283119.00	35.695
8	P	17	SLU	-20308.00	-3.55	195.53	-719570.00	-1143.80	113352.00	35.433
9	P	17	SLU	-20329.90	0.90	444.67	-719570.00	1143.76	113362.00	35.395
10	P	17	SLU	-12219.40	-4.69	-75.68	-435102.00	-2403.62	-36042.10	35.608
11	P	17	SLU	-20289.60	4.93	737.57	-719570.00	1626.31	112839.00	35.465
12	P	17	SLU	-20105.40	5.25	1140.18	-719575.00	1144.24	113258.00	35.790
13	P	17	SLU	-29389.00	-8.43	624.75	-1028500.00	-1700.87	255180.00	34.996
14	P	17	SLU	-19109.60	-48.76	2323.47	-719570.00	-1629.37	112288.00	37.655
15	T	17	SLU	-18409.00	-436.84	2560.72	-18409.00	-11521.10	66945.50	26.150

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	25747.00	1350.63	31981.90	25747.00	5482.25	121391.00	3.796
2	P	13	SND	646.42	447.38	10551.70	646.42	1997.32	58486.70	5.533
3	P	13	SND	-2360.12	211.59	11743.80	-2360.12	1429.20	61494.60	5.237
4	P	13	SND	23380.60	-239.43	-673.67	23380.60	-573.07	-5002.52	2.854
5	P	13	SND	-3653.32	123.54	12956.30	-3653.32	1004.47	63096.50	4.870
6	P	13	SND	-2610.26	88.39	14260.30	-2610.26	711.93	63348.60	4.442
7	P	13	SND	13894.40	164.48	48468.80	13894.40	1468.07	152167.00	3.140
8	P	13	SND	4299.07	98.37	17015.20	4299.07	704.90	59987.90	3.507
9	P	13	SND	8765.44	132.12	18525.30	8765.44	700.04	57808.80	3.091
10	P	5	SND	38964.30	-148.61	-5749.10	38964.30	-177.34	-8078.14	1.238
11	P	13	SND	13514.70	176.99	20178.00	13514.70	679.49	55505.40	2.716
12	P	13	SND	18422.20	230.54	22014.80	18422.20	963.16	52393.70	2.346
13	P	13	SND	31967.00	516.72	72282.90	31967.00	1419.30	127459.00	1.763
14	P	13	SND	28705.20	379.97	26333.50	28705.20	898.33	47136.90	1.765
15	T	5	SND	38287.70	-1800.08	27577.70	38287.70	-2409.07	38240.00	1.371

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1	P	18	SLE R	-23907.90	322.01	1025.53	6.30	83.39
1	P	20	SLE Q	-22204.40	298.44	715.89	5.75	75.95
2	P	18	SLE R	-15633.70	145.25	-1306.61	7.14	98.04
2	P	20	SLE Q	-14414.80	135.48	-1225.56	6.62	90.83
3	P	18	SLE R	-15299.70	48.15	-1027.96	5.92	85.21
3	P	20	SLE Q	-14108.90	44.45	-966.36	5.48	78.87
4	P	18	SLE R	-5685.58	-1.84	154.53	5.27	64.79
4	P	20	SLE Q	-5320.93	-2.81	132.93	4.88	60.37
5	P	18	SLE R	-15051.10	9.02	-627.97	5.08	75.05
5	P	20	SLE Q	-13878.80	8.01	-600.73	4.70	69.52
6	P	18	SLE R	-14938.40	-2.74	-306.13	4.64	69.06
6	P	20	SLE Q	-13768.70	-2.80	-303.96	4.30	64.02
7	P	18	SLE R	-23816.50	-3.95	305.38	4.30	64.35
7	P	20	SLE Q	-21964.90	-4.14	230.41	3.95	59.05

Relazione di calcolo

8P	18	SLE R	-14927.80	-2.19	130.21	4.24	63.47
8P	20	SLE Q	-13738.70	-1.91	102.90	3.89	58.20
9P	18	SLE R	-14937.70	1.13	310.45	4.39	65.67
9P	20	SLE Q	-13736.60	1.39	271.48	4.03	60.24
10P	18	SLE R	-8966.71	-3.11	-52.27	4.44	65.15
10P	20	SLE Q	-8197.91	-2.14	-44.75	4.06	59.56
11P	18	SLE R	-14904.10	4.13	523.21	4.60	68.39
11P	20	SLE Q	-13694.80	4.41	468.85	4.22	62.74
12P	18	SLE R	-14768.70	4.42	815.46	4.82	71.47
12P	20	SLE Q	-13560.90	4.98	736.58	4.42	65.54
13P	18	SLE R	-21535.80	-4.82	486.05	4.46	66.53
13P	20	SLE Q	-19665.60	-1.86	518.12	4.09	61.08
14P	18	SLE R	-14052.50	-34.88	1675.74	5.63	81.38
14P	20	SLE Q	-12886.50	-30.45	1516.45	5.13	74.27
15T	18	SLE R	-13537.80	-318.86	1862.60	8.08	102.37
15T	20	SLE Q	-12383.90	-291.05	1700.82	7.38	93.56

Definizione Pareti

Liv. 1 Par. 1 dal nodo 2042 al nodo 2068
Liv. 2 Par. 1/1 dal nodo -29957 al nodo -29969
Par. 1/2 dal nodo -29981 al nodo -29919
Liv. 3 Par. 1/1 dal nodo -29958 al nodo -29970
Par. 1/2 dal nodo -29982 al nodo -29920
Liv. 4 Par. 1 dal nodo -24456 al nodo -29959
Liv. 5 Par. 1/1 dal nodo -29959 al nodo -29971
Par. 1/2 dal nodo -29983 al nodo -29921
Liv. 6 Par. 1/1 dal nodo -29960 al nodo -29972
Par. 1/2 dal nodo -29984 al nodo -29922
Liv. 7 Par. 1 dal nodo -24454 al nodo -29923
Liv. 8 Par. 1/1 dal nodo -29962 al nodo -29974
Par. 1/2 dal nodo -29986 al nodo -29924
Liv. 9 Par. 1/1 dal nodo -29963 al nodo -29975
Par. 1/2 dal nodo -29987 al nodo -29925
Liv. 10 Par. 1/1 dal nodo -24451 al nodo -29964
Par. 1/2 dal nodo -29976 al nodo -29988
Liv. 11 Par. 1/1 dal nodo -29964 al nodo -29976
Par. 1/2 dal nodo -29988 al nodo -29926
Liv. 12 Par. 1/1 dal nodo -29965 al nodo -29977
Par. 1/2 dal nodo -29989 al nodo -29927
Liv. 13 Par. 1/1 dal nodo -24449 al nodo -29978
Par. 1/2 dal nodo -29990 al nodo -29928
Liv. 14 Par. 1/1 dal nodo -29967 al nodo -29979
Par. 1/2 dal nodo -29991 al nodo -29929
Liv. 15 Par. 1/1 dal nodo -29968 al nodo -29980
Par. 1/2 dal nodo -29992 al nodo -29930

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	Par.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	9	50878.80	2.50	81677.90	134697.00	1.605
2	P	1/1	9	2681.16	2.50	6443.61	10626.30	2.403
2	P	1/2	9	34101.50	2.50	42025.00	69304.40	1.232
3	P	1/1	1	3300.33	2.50	6443.61	10626.30	1.952
3	P	1/2	1	34629.20	2.50	42025.00	69304.40	1.214
4	P	1	5	6555.60	2.50	20605.40	33980.70	3.143
5	P	1/1	1	3644.62	2.50	6443.61	10626.30	1.768
5	P	1/2	1	35003.50	2.50	42025.00	69304.40	1.201
6	P	1/1	9	3741.70	2.50	6443.61	10626.30	1.722
6	P	1/2	9	35346.80	2.50	42025.00	69304.40	1.189
7	P	1	9	49984.40	2.50	81677.90	134697.00	1.634
8	P	1/1	9	4056.68	2.50	6443.61	10626.30	1.588
8	P	1/2	9	35516.50	2.50	42025.00	69304.40	1.183
9	P	1/1	9	4155.78	2.50	6443.61	10626.30	1.551
9	P	1/2	9	35065.00	2.50	42025.00	69304.40	1.198
10	P	1/1	9	6168.23	2.50	20605.40	33980.70	3.341
10	P	1/2	9	5919.93	2.50	8036.78	13253.60	1.358
11	P	1/1	9	4337.65	2.50	6443.61	10626.30	1.486
11	P	1/2	9	34206.00	2.50	42025.00	69304.40	1.229
12	P	1/1	1	4543.89	2.50	6443.61	10626.30	1.418
12	P	1/2	1	33290.30	2.50	42025.00	69304.40	1.262
13	P	1/1	1	11019.50	2.50	28571.40	47117.60	2.593
13	P	1/2	1	32188.70	2.50	42025.00	69304.40	1.306
14	P	1/1	1	3834.75	2.50	6443.61	10626.30	1.680
14	P	1/2	1	30411.00	2.50	42025.00	69304.40	1.382
15	P	1/1	9	3244.32	2.50	6443.61	10626.30	1.986
15	P	1/2	9	28535.90	2.50	42025.00	69304.40	1.473

Numero del nucleo n. 324

Nodi: 2068 -36132 -36131 -36130 -36129 -36128 -36127 -551 -36126 2070 -36125 -36124 -36123 -36122 -36121 -36120 -36119 2072

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>		<daN/cm²>	<daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy	MRdz	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	17	SLU	-52277.30	2909.36	-12346.00	-52277.30	40520.40	-166145.00	13.483
2	P	17	SLU	-51442.80	1697.67	-11524.40	-51442.80	38941.90	-268208.00	23.266
3	P	17	SLU	-50921.70	982.30	-11113.70	-50921.70	34288.60	-405031.00	36.433
4	P	17	SLU	-50435.10	557.15	-10625.60	-2033220.00	24736.90	-506881.00	40.314
5	P	17	SLU	-50022.60	302.06	-10087.50	-2033220.00	20326.10	-538087.00	40.646
6	P	17	SLU	-49639.70	148.93	-9505.86	-2033220.00	4696.27	-606694.00	40.960
7	P	17	SLU	-49293.50	58.42	-8908.91	-2033220.00	-727.50	-613287.00	41.247
8	P	17	SLU	-48957.60	-1.57	-8322.58	-2033220.00	-4697.52	-605951.00	41.530
9	P	17	SLU	-48629.60	-61.13	-7768.54	-2033220.00	-6802.98	-600081.00	41.810
10	P	17	SLU	-48305.00	-149.50	-7289.99	-2033220.00	-10764.00	-585702.00	42.091
11	P	17	SLU	-47992.50	-307.02	-6903.74	-2033220.00	-20303.10	-536108.00	42.365
12	P	17	SLU	-47731.50	-591.25	-6697.83	-2033220.00	-34113.20	-403420.00	42.597
13	T	17	SLU	-46653.00	-2200.57	-6401.54	-46653.00	-40461.80	-118364.00	18.479
14	P	17	SLU	-16801.40	1928.16	-8250.49	-16801.40	37207.20	-154851.00	18.796

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	M'ydy	M'ydz	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	13	SND	170.00	7665.03	42879.80	170.00	18988.20	104410.00	2.436
2	P	13	SND	136.32	5110.49	40586.70	136.32	19238.70	149305.00	3.680
3	P	13	SND	1730.35	3235.15	-59261.70	1730.35	13455.20	-264638.00	4.465
4	P	13	SND	4820.20	1864.26	-64264.20	4820.20	6216.46	-305367.00	4.751
5	P	13	SND	9042.48	-430.66	-72198.30	9042.48	-3956.85	-311221.00	4.311
6	P	13	SND	14133.70	-315.53	-82160.10	14133.70	-2743.81	-311122.00	3.787
7	P	13	SND	19765.00	-703.68	-93434.30	19765.00	-3897.98	-299093.00	3.201
8	P	13	SND	25722.10	-1173.08	-105470.00	25722.10	-3864.54	-292260.00	2.771
9	P	13	SND	31808.10	-1708.18	-118131.00	31808.10	-5927.74	-275222.00	2.330
10	P	13	SND	37840.60	-2403.48	-131193.00	37840.60	-5860.02	-268428.00	2.046
11	P	13	SND	43697.20	-3391.94	-144376.00	43697.20	-5792.44	-261854.00	1.814
12	P	5	SND	59271.60	-4213.42	-151046.00	59271.60	-5599.92	-244101.00	1.616
13	T	13	SND	54937.00	-10663.10	-194470.00	54937.00	-11303.10	-212239.00	1.091
14	P	5	SND	84915.80	5014.71	-151126.00	84915.80	6599.92	-207265.00	1.371

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ _c	σ _f
				<daN>	<daNm>	<daNm>	<daN/cm²>	<daN/cm²>
1	P	18	SLE R	-38853.70	2047.91	-8532.21	10.05	126.70
1	P	20	SLE Q	-36328.10	1895.87	-7604.72	9.27	116.83
2	P	18	SLE R	-38221.30	1198.23	-7977.99	7.72	102.22
2	P	20	SLE Q	-35689.20	1114.09	-7072.12	7.14	94.43
3	P	18	SLE R	-37810.00	695.26	-7708.93	6.52	89.65
3	P	20	SLE Q	-35265.60	649.03	-6822.77	6.02	82.74
4	P	18	SLE R	-37423.70	395.57	-7383.96	5.76	81.56
4	P	20	SLE Q	-34872.60	370.77	-6534.79	5.31	75.21
5	P	18	SLE R	-37090.20	215.29	-7022.67	5.26	76.14
5	P	20	SLE Q	-34533.20	202.69	-6219.13	4.85	70.17
6	P	18	SLE R	-36777.90	106.76	-6629.62	4.92	72.29
6	P	20	SLE Q	-34215.80	100.92	-5877.84	4.54	66.59
7	P	18	SLE R	-36491.40	42.28	-6224.51	4.68	69.44
7	P	20	SLE Q	-33924.40	39.89	-5526.96	4.31	63.94
8	P	18	SLE R	-36212.30	-0.87	-5825.25	4.50	67.13
8	P	20	SLE Q	-33640.80	-1.47	-5182.32	4.14	61.83
9	P	18	SLE R	-35937.80	-44.15	-5447.05	4.51	66.79
9	P	20	SLE Q	-33361.90	-43.10	-4856.90	4.15	61.57
10	P	18	SLE R	-35665.00	-108.50	-5120.01	4.57	67.04
10	P	20	SLE Q	-33084.10	-104.43	-4577.92	4.22	61.86
11	P	18	SLE R	-35399.50	-222.96	-4855.27	4.75	68.59
11	P	20	SLE Q	-32812.90	-212.25	-4355.13	4.40	63.35
12	P	18	SLE R	-35168.40	-429.04	-4713.73	5.17	72.54
12	P	20	SLE Q	-32572.50	-404.74	-4243.67	4.78	67.06
13	T	18	SLE R	-34310.50	-1591.22	-4511.83	7.69	97.50
13	T	20	SLE Q	-31711.00	-1480.57	-4063.52	7.12	90.10
14	P	18	SLE R	-12847.00	1401.79	-5725.12	6.97	77.26
14	P	20	SLE Q	-12466.70	1323.85	-5115.47	6.48	71.93

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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}	W _k <mm>
14	P	20	SLE Q	-12466.70	1323.85	-5115.47	35.00	154.67	0.50	16.00	238.44	6.03	634.99	63.79	0.02	0.01
14	P	19	SLE F	-12535.80	1336.66	-5264.77	35.00	154.67	0.50	16.00	237.84	6.03	632.73	65.29	0.02	0.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	118117.00	2.50	123172.00	253976.00	1.043
2	P	9	120741.00	2.50	123172.00	254082.00	1.020
3	P	9	121734.00	2.50	123172.00	253929.00	1.012
4	P	9	122182.00	2.50	123172.00	253907.00	1.008
5	P	9	122393.00	2.50	123172.00	253907.00	1.006
6	P	9	122496.00	2.50	123172.00	253907.00	1.006
7	P	9	122515.00	2.50	123172.00	253907.00	1.005
8	P	9	122460.00	2.50	123172.00	253907.00	1.006
9	P	9	122306.00	2.50	123172.00	253907.00	1.007
10	P	9	122000.00	2.50	123172.00	253907.00	1.010
11	P	9	121351.00	2.50	123172.00	253907.00	1.015
12	P	9	119856.00	2.50	123172.00	253907.00	1.028
13	P	9	116399.00	2.50	123172.00	253907.00	1.058

Numero del nucleo n. 325

Nodi: 2046 -37267 -37266 -37265 -37264 -37263 -37262 -37261 -37260 2070

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
20.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-27534.00	72.22	91.99	-1064160.00	23974.30	30411.10	38.649
2	P	17	SLU	-23401.20	26.86	147.06	-907155.00	17285.00	95392.00	38.765
3	P	17	SLU	-3418.82	-4.94	-61.52	-141272.00	-369.35	-4207.72	41.322
4	P	17	SLU	-22738.30	3.94	118.46	-907155.00	6317.39	172422.00	39.895
5	P	17	SLU	-25275.50	-18.27	25.09	-1064160.00	-23817.20	32759.20	42.102
6	P	17	SLU	-21131.70	-21.35	-59.83	-907155.00	-18805.00	-53282.10	42.929
7	P	17	SLU	-2990.11	-5.50	-88.18	-2990.11	-289.70	-4204.91	44.095
8	P	17	SLU	-20237.40	-26.01	-155.30	-907155.00	-15593.40	-96140.00	44.826
9	P	17	SLU	-19316.50	-26.83	-236.76	-907155.00	-13507.50	-113446.00	46.963
10	P	17	SLU	-18384.20	-25.71	-306.19	-907155.00	-11400.50	-127346.00	49.344
11	P	17	SLU	-19926.30	-25.64	-539.01	-1064160.00	-10165.90	-218846.00	53.405
12	P	17	SLU	-16549.90	-21.51	-419.49	-907155.00	-6511.28	-150945.00	54.813
13	P	17	SLU	-2187.37	-0.24	-80.87	-2187.37	0.00	-4277.75	52.899
14	P	17	SLU	-15665.30	-20.35	-480.07	-907155.00	-6510.79	-150590.00	57.908
15	P	17	SLU	-16895.10	-20.11	-708.28	-1064160.00	-6528.36	-235998.00	62.986
16	P	17	SLU	-13968.80	-22.40	-668.36	-907155.00	-4184.45	-158118.00	64.941

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	15324.40	828.75	13157.70	15324.40	6999.23	115359.00	8.766
2	P	5	SND	15888.40	503.52	-8860.07	15888.40	3699.03	-78479.70	7.988
3	P	5	SND	-655.72	-38.85	746.93	-655.72	-148.28	2812.09	3.764
4	P	5	SND	18633.90	333.32	-9445.39	18633.90	2419.10	-81805.50	7.740
5	P	5	SND	19068.90	-170.02	-16399.30	19068.90	-2467.99	-136030.00	8.296
6	P	5	SND	26421.20	-100.30	-11791.70	26421.20	-1166.35	-82150.90	6.166
7	P	5	SND	-353.61	-35.27	760.90	-353.61	-113.85	2821.65	3.707
8	P	5	SND	31207.80	-98.59	-13374.30	31207.80	-1152.14	-79686.60	5.269
9	P	5	SND	36359.80	-140.75	-15177.70	36359.80	-1135.60	-77005.80	4.494
10	P	5	SND	41696.60	-196.73	-17206.20	41696.60	-1118.40	-74235.10	3.838
11	P	13	SND	54798.90	246.91	29223.80	54798.90	1605.76	119410.00	4.086
12	P	5	SND	52241.30	-355.27	-22030.60	52241.30	-1527.90	-67012.30	2.754
13	P	5	SND	2307.40	-31.79	565.35	2307.40	-136.10	2587.86	4.419
14	P	5	SND	57142.60	-475.90	-24902.70	57142.60	-1507.53	-64423.80	2.370
15	P	13	SND	71370.50	605.91	40555.90	71370.50	2262.43	106724.00	2.632
16	T	5	SND	65718.60	-1099.93	-38249.00	65718.60	-2053.19	-57654.10	1.454

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _ε <daN/cmq>
1	P	18	SLE R	-20235.60	53.09	53.83	4.25	61.90
1	P	20	SLE Q	-18850.90	51.85	-18.29	3.96	57.52
2	P	18	SLE R	-17197.30	20.48	99.41	4.33	63.44

Relazione di calcolo

2	P	20	SLE Q	-16028.30	21.39	46.73	4.01	58.79
3	P	18	SLE R	-2511.96	-3.42	-43.81	5.86	71.74
3	P	20	SLE Q	-2327.02	-3.15	-39.79	5.40	66.22
4	P	18	SLE R	-16709.70	3.96	83.74	4.09	60.56
4	P	20	SLE Q	-15567.30	5.57	42.04	3.79	56.16
5	P	18	SLE R	-18576.40	-11.94	22.49	3.68	54.73
5	P	20	SLE Q	-17287.40	-9.54	-13.72	3.41	50.79
6	P	18	SLE R	-15533.10	-14.38	-37.34	3.78	55.73
6	P	20	SLE Q	-14455.30	-12.24	-53.32	3.49	51.60
7	P	18	SLE R	-2202.88	-3.83	-62.87	6.14	70.41
7	P	20	SLE Q	-2045.05	-3.46	-57.71	5.67	65.14
8	P	18	SLE R	-14879.70	-17.84	-103.41	3.59	52.91
8	P	20	SLE Q	-13837.40	-15.74	-107.43	3.33	49.04
9	P	18	SLE R	-14207.20	-18.57	-160.14	3.39	49.97
9	P	20	SLE Q	-13201.20	-16.66	-153.48	3.14	46.35
10	P	18	SLE R	-13526.40	-17.93	-208.76	3.18	47.00
10	P	20	SLE Q	-12557.10	-16.29	-192.60	2.95	43.62
11	P	18	SLE R	-14675.70	-18.02	-368.79	3.16	46.60
11	P	20	SLE Q	-13616.00	-16.54	-329.79	2.92	43.13
12	P	18	SLE R	-12186.10	-15.37	-289.66	2.93	43.27
12	P	20	SLE Q	-11288.50	-14.43	-256.47	2.71	39.97
13	P	18	SLE R	-1620.46	-0.14	-57.81	4.85	54.16
13	P	20	SLE Q	-1508.71	-0.08	-53.07	4.49	50.18
14	P	18	SLE R	-11538.90	-14.84	-334.03	2.82	41.66
14	P	20	SLE Q	-10676.00	-14.29	-292.19	2.60	38.39
15	P	18	SLE R	-12456.80	-15.01	-494.01	2.78	41.05
15	P	20	SLE Q	-11519.70	-14.83	-426.19	2.56	37.76
16	P	18	SLE R	-10294.90	-17.11	-474.11	2.68	39.38
16	P	20	SLE Q	-9497.61	-17.24	-411.86	2.47	36.13

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	36773.90	2.50	84483.70	111459.00	2.297
2	P	13	30757.30	2.50	73419.80	96862.60	2.387
3	P	13	6888.93	2.50	9249.40	12311.90	1.343
4	P	13	31403.60	2.50	73419.80	96862.60	2.338
5	P	13	39307.90	2.50	84483.70	111459.00	2.149
6	P	13	32942.00	2.50	73419.80	96862.60	2.229
7	P	13	7430.02	2.50	9249.44	12280.60	1.245
8	P	13	33509.10	2.50	73419.80	96862.60	2.191
9	P	13	33832.90	2.50	73419.80	96862.60	2.170
10	P	13	33887.70	2.50	73419.80	96862.60	2.167
11	P	13	40536.70	2.50	84483.70	111459.00	2.084
12	P	13	33163.10	2.50	73419.80	96862.60	2.214
13	P	13	5952.91	2.50	9249.44	12202.80	1.554
14	P	13	32368.10	2.50	73419.80	96862.60	2.268
15	P	13	36470.40	2.50	84483.70	111459.00	2.317
16	P	13	30295.20	2.50	73419.80	96862.60	2.423

Numero del nucleo n. 326

Nodi: 2086 -26007 -565 -25982 2087 -25957 2088

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-41473.30	-7415.49	-1356.11	-41473.30	-19553.00	-3591.22	2.637
2	P	17	SLU	-29258.70	-3766.83	230.09	-29258.70	-12748.80	717.48	3.384
3	P	17	SLU	-5544.60	-1279.17	-24.66	-5544.60	-3402.09	-46.13	2.659
4	P	17	SLU	-6094.97	-1040.69	-20.71	-6094.97	-3446.59	-44.46	3.311
5	P	17	SLU	-28444.30	-3306.83	-167.49	-28444.30	-12650.20	-697.94	3.826
6	P	17	SLU	-34547.40	-3494.94	-599.44	-34547.40	-16132.80	-2668.38	4.611
7	P	17	SLU	-6269.99	-795.14	-10.66	-6269.99	-3460.61	-43.92	4.352
8	P	17	SLU	-6363.57	-606.24	-7.44	-6363.57	-3468.08	-43.64	5.721
9	P	17	SLU	-27648.80	-2078.10	-302.26	-27648.80	-12643.60	-1789.47	6.081
10	P	17	SLU	-13008.80	-801.38	-40.55	-13008.80	-6906.57	-369.45	8.620
11	P	17	SLU	-27371.40	-1405.56	-270.13	-27371.40	-12599.00	-2453.22	8.968
12	P	17	SLU	-27118.30	-727.13	-227.87	-448786.00	-12555.00	-3880.28	16.549
13	P	17	SLU	-6408.12	-241.64	-5.61	-6408.12	-3440.11	-68.55	14.236
14	P	17	SLU	-6424.58	-60.04	-5.01	-120833.00	-3461.20	-288.16	18.808
15	P	17	SLU	-26876.20	-47.86	-179.17	-448786.00	-7096.74	-27236.10	16.698
16	P	17	SLU	-33303.40	792.30	-264.96	-569621.00	16017.70	-5410.72	17.104

Relazione di calcolo

17	P	17	SLU	-6420.90	126.16	-3.93	-120833.00	3452.18	-131.21	18.819
18	P	17	SLU	-26355.30	1296.81	-91.61	-26355.30	12498.80	-931.94	9.641
19	P	17	SLU	-6508.77	320.96	-11.97	-6508.77	3459.48	-130.86	10.779
20	P	17	SLU	-13571.60	1063.92	-83.07	-13571.60	6984.50	-561.58	6.566
21	P	17	SLU	-25715.50	1937.68	-216.76	-25715.50	12484.20	-1366.25	6.441
22	P	17	SLU	-24455.70	2516.55	-698.55	-24455.70	12346.10	-3456.40	4.909
23	P	17	SLU	-7787.73	816.08	-78.18	-7787.73	3565.79	-313.13	4.366
24	P	17	SLU	-9993.44	1011.09	-130.66	-9993.44	3710.91	-493.52	3.672
25	T	17	SLU	-23240.10	3511.84	-2052.68	-23240.10	12126.70	-7005.86	3.443

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	-17635.20	-7014.83	-5719.62	-17635.20	-13712.20	-11067.40	1.947
2	P	5	SND	-13331.70	-3450.53	1560.49	-13331.70	-9848.52	4377.44	2.846
3	P	5	SND	-554.67	-1213.06	-174.00	-554.67	-2665.15	-394.45	2.198
4	P	5	SND	-1057.10	-968.50	-100.08	-1057.10	-2782.47	-294.57	2.874
5	P	5	SND	-12840.00	-2895.84	-853.12	-12840.00	-10061.60	-2933.42	3.472
6	P	13	SND	-13158.40	-2784.05	-2665.59	-13158.40	-10512.10	-10119.40	3.786
7	P	13	SND	1643.35	-662.83	65.20	1643.35	-2494.54	249.43	3.761
8	P	13	SND	2953.23	-479.67	58.55	2953.23	-2311.32	350.81	4.823
9	P	13	SND	-9724.36	-1540.40	-1556.32	-9724.36	-7854.90	-7880.25	5.081
10	P	5	SND	-23600.20	-545.88	124.45	-178725.00	-6806.02	1550.28	7.573
11	P	9	SND	-7133.47	-1027.55	-2069.48	-7133.47	-6324.65	-12679.30	6.132
12	P	13	SND	-5585.18	-865.28	-2694.32	-5585.18	-4710.70	-14833.10	5.500
13	P	5	SND	-14922.40	-180.49	35.48	-89362.70	-3160.55	636.43	5.988
14	P	5	SND	-16654.90	-127.73	26.89	-89362.70	-3038.40	642.85	5.366
15	P	13	SND	-3258.62	-756.70	-3313.79	-3258.62	-3732.97	-15832.10	4.785
16	P	5	SND	-8889.09	1856.72	8239.07	-8889.09	5914.54	26018.30	3.159
17	P	5	SND	-18415.70	-78.81	19.62	-89362.70	-2882.41	710.27	4.853
18	P	5	SND	4454.90	2211.66	4451.12	4454.90	5729.77	11569.20	2.620
19	P	13	SND	11517.90	438.76	3.82	11517.90	1657.53	177.90	3.781
20	P	13	SND	19447.00	1308.40	-601.10	19447.00	3279.15	-1419.18	2.506
21	P	5	SND	7793.58	2916.42	5015.54	7793.58	5788.32	9694.88	1.966
22	P	5	SND	11548.20	3559.03	-5047.20	11548.20	5402.08	-7898.40	1.535
23	P	13	SND	14609.20	920.66	-34.10	14609.20	1420.29	1.88	1.543
24	P	13	SND	16519.30	1108.17	-151.69	16519.30	1237.89	-139.21	1.116
25	T	5	SND	13935.00	4615.26	-7912.47	13935.00	4942.06	-8486.75	1.071

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-30455.20	-5210.17	-913.72	57.22	725.80
1	P	20	SLE Q	-28265.90	-4570.55	-780.78	50.22	606.89
2	P	18	SLE R	-21374.20	-2644.16	172.86	44.45	460.85
2	P	20	SLE Q	-19824.00	-2318.76	235.24	39.61	417.00
3	P	18	SLE R	-4141.68	-897.52	-17.08	53.82	778.49
3	P	20	SLE Q	-3807.48	-787.68	-21.96	48.10	670.90
4	P	18	SLE R	-4519.39	-729.21	-14.48	44.62	514.88
4	P	20	SLE Q	-4208.63	-639.86	-13.75	39.40	428.89
5	P	18	SLE R	-20799.90	-2316.72	-106.74	38.57	409.65
5	P	20	SLE Q	-19258.60	-2032.02	-69.38	33.74	362.57
6	P	18	SLE R	-25313.30	-2442.07	-407.49	33.24	368.11
6	P	20	SLE Q	-23440.90	-2142.28	-357.88	29.24	327.70
7	P	18	SLE R	-4637.34	-555.99	-7.28	34.36	356.86
7	P	20	SLE Q	-4320.49	-487.78	-6.18	30.27	318.70
8	P	18	SLE R	-4696.82	-422.37	-4.96	26.74	296.30
8	P	20	SLE Q	-4366.74	-370.54	-3.91	23.59	264.80
9	P	18	SLE R	-20235.60	-1445.89	-206.62	25.57	300.51
9	P	20	SLE Q	-18727.20	-1268.41	-184.75	22.65	268.75
10	P	18	SLE R	-9575.96	-553.85	-27.45	19.19	232.79
10	P	20	SLE Q	-8874.36	-485.89	-23.20	17.14	209.43
11	P	18	SLE R	-20038.40	-969.81	-186.06	19.32	240.53
11	P	20	SLE Q	-18550.70	-850.80	-168.31	17.37	217.40
12	P	18	SLE R	-19858.50	-489.62	-158.22	14.24	188.56
12	P	20	SLE Q	-18391.00	-429.58	-144.66	12.94	172.10
13	P	18	SLE R	-4714.11	-164.32	-3.71	14.56	184.27
13	P	20	SLE Q	-4357.68	-144.16	-2.91	13.13	167.20
14	P	18	SLE R	-4718.56	-35.77	-3.32	9.71	135.51
14	P	20	SLE Q	-4349.25	-31.39	-2.63	8.87	124.14
15	P	18	SLE R	-19686.20	-8.86	-125.85	9.17	136.79
15	P	20	SLE Q	-18238.90	-7.86	-116.62	8.50	126.70
16	P	18	SLE R	-24401.10	592.36	-191.05	13.74	182.44
16	P	20	SLE Q	-22593.30	519.52	-186.19	12.52	166.89
17	P	18	SLE R	-4708.68	96.08	-2.57	11.92	157.82
17	P	20	SLE Q	-4327.19	84.27	-2.02	10.78	143.37
18	P	18	SLE R	-19317.60	942.71	-67.29	18.27	226.94
18	P	20	SLE Q	-17907.20	826.86	-68.37	16.46	205.69

19	P	18	SLE R	-4761.80	234.09	-8.14	17.57	214.14
19	P	20	SLE Q	-4369.27	205.34	-7.75	15.75	192.79
20	P	18	SLE R	-9902.25	766.93	-58.06	25.24	291.05
20	P	20	SLE Q	-9108.37	672.75	-57.75	22.42	260.76
21	P	18	SLE R	-18871.30	1395.91	-154.40	24.35	283.98
21	P	20	SLE Q	-17475.80	1224.40	-162.81	21.66	255.42
22	P	18	SLE R	-17993.90	1804.68	-488.61	32.43	358.12
22	P	20	SLE Q	-16614.00	1582.95	-506.20	28.89	323.25
23	P	18	SLE R	-5626.55	585.82	-53.95	40.53	419.91
23	P	20	SLE Q	-5236.97	513.90	-54.94	36.27	378.62
24	P	18	SLE R	-7140.21	723.52	-90.98	52.16	536.51
24	P	20	SLE Q	-6792.27	634.74	-91.42	46.83	487.09
25	T	18	SLE R	-17133.40	2506.85	-1429.16	50.15	573.98
25	T	20	SLE Q	-15782.50	2198.91	-1486.47	45.42	502.95

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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>
1	P	20	SLE Q	-28265.90	-4570.55	-780.78	33.36	116.02	0.50	16.00	126.78	12.06	452.78	606.89	0.18	0.04
1	P	19	SLE F	-28709.30	-4737.09	-816.84	33.36	116.02	0.50	16.00	127.21	12.06	456.04	640.21	0.19	0.04
3	P	20	SLE Q	-3807.48	-787.68	-21.96	33.00	98.33	0.50	16.00	99.76	4.02	84.84	670.90	0.20	0.03
3	P	19	SLE F	-3871.92	-816.60	-20.61	33.00	98.33	0.50	16.00	100.21	4.02	85.97	701.64	0.20	0.03
4	P	20	SLE Q	-4208.63	-639.86	-13.75	33.00	98.33	0.50	16.00	127.15	2.01	76.84	428.89	0.12	0.03
4	P	19	SLE F	-4266.34	-663.65	-13.92	33.00	98.33	0.50	16.00	127.93	2.01	77.82	454.15	0.13	0.03
25	T	20	SLE Q	-15782.50	2198.91	-1486.47	33.00	118.00	0.50	16.00	192.02	2.01	158.36	502.95	0.15	0.05
25	T	19	SLE F	-16057.00	2268.75	-1474.96	33.00	118.00	0.50	16.00	196.12	2.01	163.51	520.13	0.15	0.05

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	10127.20	2.50	37493.20	79923.10	3.702
2	P	13	6803.20	2.50	24039.60	51318.40	3.534
3	P	5	1444.57	2.50	5275.20	10941.80	3.652
4	P	5	856.25	2.50	5275.20	11003.00	6.161
5	P	13	7212.80	2.50	24039.60	51320.50	3.333
6	P	5	9321.85	2.50	30766.40	65636.70	3.300
7	P	5	805.43	2.50	5275.20	10937.10	6.550
8	P	5	791.76	2.50	5275.20	10874.30	6.663
9	P	5	7351.99	2.50	24039.60	50940.20	3.270
10	P	5	2759.39	2.50	12002.10	24741.10	4.350
11	P	5	7367.85	2.50	24039.60	50580.60	3.263
12	P	5	7369.12	2.50	24039.60	50186.50	3.262
13	P	5	790.12	2.50	5275.20	10874.30	6.676
14	P	13	788.01	2.50	5275.20	10874.30	6.694
15	P	5	7381.40	2.50	24039.60	49772.20	3.257
16	P	5	9345.40	2.50	30766.40	64739.20	3.292
17	P	13	783.64	2.50	5275.20	10874.30	6.732
18	P	5	7293.73	2.50	24039.60	49555.20	3.296
19	P	5	802.63	2.50	5275.20	10874.30	6.572
20	P	5	3200.25	2.50	12002.10	24741.10	3.750
21	P	13	7444.31	2.50	24039.60	49555.20	3.229
22	P	13	7634.07	2.50	24039.60	49555.20	3.149
23	P	5	1471.69	2.50	5275.20	10874.30	3.584
24	P	1	5238.44	2.50	5275.20	10874.30	1.007
25	T	13	7193.07	2.50	24039.60	49555.20	3.342

Numero del nucleo n. 327

Nodi: -35198 -34922 -26888 2035 -12157 -12156 -12155 -12154 -12153 2036 2037

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-28918.20	432.44	-7408.73	-28918.20	12414.50	-219086.00	29.568
2	P	17	SLU	-28311.70	329.46	-4984.28	-28311.70	14013.10	-211477.00	42.429
3	P	17	SLU	-27705.20	226.48	-2559.82	-1324290.00	16990.90	-195141.00	47.799
4	P	17	SLU	-27098.80	123.49	-135.37	-1324290.00	24012.50	-26698.50	48.869
5	P	17	SLU	-26492.30	20.51	2289.08	-1324290.00	3219.98	241936.00	49.988
6	P	17	SLU	-25885.80	-82.47	4713.53	-1324290.00	-2239.51	242688.00	51.159
7	P	17	SLU	-25279.30	-185.46	7137.98	-25279.30	-4522.94	238849.00	33.455
8	P	17	SLU	-24672.90	-288.44	9562.44	-24672.90	-6539.32	234028.00	24.472
9	P	17	SLU	-24066.40	-391.42	11986.90	-24066.40	-6538.26	233548.00	19.481

10	T	17	SLU	-22853.40	-597.39	16835.80	-22853.40	-6536.03	232558.00	13.810
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Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	5	SND	-4987.79	7538.27	-38805.50	-4987.79	11388.40	-56487.70	1.458
2	P	5	SND	-4521.27	5817.45	19824.40	-4521.27	11458.40	37934.80	1.918
3	P	5	SND	-4054.76	4097.21	20526.90	-4054.76	11302.70	56290.90	2.743
4	P	1	SND	-3304.03	2244.13	-30158.90	-3304.03	9119.63	-111909.00	3.713
5	P	9	SND	-4132.92	683.00	31007.70	-4132.92	4029.85	134950.00	4.353
6	P	9	SND	-3666.40	-974.82	32330.50	-3666.40	-4024.78	134570.00	4.162
7	P	9	SND	-3199.89	-2577.83	34143.60	-3199.89	-9110.21	111779.00	3.275
8	P	5	SND	-1722.16	-4518.84	-23865.90	-1722.16	-11118.10	-58905.30	2.468
9	P	5	SND	-1255.64	-6239.24	-23382.40	-1255.64	-11117.70	-42101.80	1.799
10	T	5	SND	-322.60	-9681.24	40974.80	-322.60	-10951.70	45461.30	1.111

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_t <daN/cm ² >
1	P	18	SLE R	-21194.90	313.68	-5264.34	6.19	86.56
1	P	20	SLE Q	-19537.60	281.00	-4593.69	5.58	78.12
2	P	18	SLE R	-20728.40	238.86	-3519.55	5.22	73.53
2	P	20	SLE Q	-19071.10	214.77	-3058.81	4.72	66.52
3	P	18	SLE R	-20261.90	164.04	-1774.75	4.24	60.51
3	P	20	SLE Q	-18604.60	148.54	-1523.93	3.85	54.92
4	P	18	SLE R	-19795.30	89.21	-29.96	3.27	47.48
4	P	20	SLE Q	-18138.10	82.31	10.95	2.99	43.43
5	P	18	SLE R	-19328.80	14.39	1714.84	3.57	52.93
5	P	20	SLE Q	-17671.60	16.08	1545.83	3.26	48.37
6	P	18	SLE R	-18862.30	-60.43	3459.63	4.30	62.88
6	P	20	SLE Q	-17205.00	-50.15	3080.70	3.88	56.78
7	P	18	SLE R	-18395.80	-135.25	5204.43	5.14	73.82
7	P	20	SLE Q	-16738.50	-116.38	4615.59	4.61	66.29
8	P	18	SLE R	-17929.30	-210.07	6949.23	6.00	85.03
8	P	20	SLE Q	-16272.00	-182.61	6150.47	5.35	75.97
9	P	18	SLE R	-17462.70	-284.89	8694.03	7.05	98.59
9	P	20	SLE Q	-15805.50	-248.84	7685.35	6.25	87.54
10	T	18	SLE R	-16529.70	-434.54	12183.60	9.97	135.91
10	T	20	SLE Q	-14872.40	-381.30	10755.10	8.77	119.72

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cm ² >	A _{c eff} <cm ² >	σ_s <daN/cm ² >	ϵ_{sm}	W _k <mm>
9	P	20	SLE Q	-15805.50	-248.84	7685.35	33.50	146.51	0.50	16.00	129.66	2.01	78.75	18.65	0.01	0.00
9	P	19	SLE F	-16181.60	-257.50	7906.04	33.50	146.51	0.50	16.00	131.06	2.01	80.50	19.56	0.01	0.00
10	T	20	SLE Q	-14872.40	-381.30	10755.10	33.33	200.00	0.50	16.00	165.92	4.02	249.44	71.75	0.02	0.01
10	T	19	SLE F	-15248.50	-394.46	11074.60	33.33	200.00	0.50	16.00	166.65	4.02	251.30	74.64	0.02	0.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	17062.30	2.50	68043.50	169035.00	3.988
2	P	1	17062.30	2.50	68043.50	168964.00	3.988
3	P	1	17062.30	2.50	68043.50	168893.00	3.988
4	P	1	17062.30	2.50	68043.50	168822.00	3.988
5	P	1	17062.30	2.50	68043.50	168751.00	3.988
6	P	1	17062.30	2.50	68043.50	168680.00	3.988
7	P	1	17062.30	2.50	68043.50	168609.00	3.988
8	P	1	17062.30	2.50	68043.50	168537.00	3.988
9	P	1	17062.30	2.50	68043.50	168466.00	3.988
10	P	1	17062.30	2.50	68043.50	168395.00	3.988

Numero del nucleo n. 328

Nodi: -33530 -33529 2032 -33528 -33527 2033

Caratteristiche delle sezioni e dei materiali utilizzati

Specs. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-39923.80	-1343.35	-3426.40	-39923.80	-22555.30	-57673.10	16.826
2	P	17	SLU	-39639.60	-1111.02	-2918.81	-787817.00	-22223.50	-59164.50	19.875

Relazione di calcolo

3	P	17	SLU	-39355.30	-878.68	-2411.24	-787817.00	-21887.50	-60560.30	20.018
4	P	17	SLU	-39071.10	-646.34	-1903.67	-787817.00	-21264.90	-63265.50	20.164
5	P	17	SLU	-38786.90	-414.01	-1396.10	-787817.00	-20111.80	-68204.10	20.311
6	P	17	SLU	-38502.70	-181.67	-888.54	-787817.00	-16574.00	-82300.50	20.461
7	P	17	SLU	-38218.50	50.67	-380.97	-787817.00	12822.40	-94723.50	20.613
8	P	17	SLU	-37934.30	283.00	126.59	-787817.00	26960.80	12073.70	20.768
9	P	17	SLU	-37650.10	515.34	634.15	-787817.00	26261.30	32431.80	20.925
10	P	17	SLU	-37365.90	747.67	1141.72	-787817.00	25726.00	39361.90	21.084
11	P	17	SLU	-20512.90	-710.88	-2257.78	-20512.90	-20166.20	-62459.40	27.728

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	9	SND	-23668.40	-3775.23	-18877.00	-23668.40	-11064.80	-54740.90	2.901
2	P	9	SND	-23449.80	-2843.54	-10593.00	-23449.80	-13636.80	-49389.20	4.672
3	P	5	SND	-23731.60	-1729.96	-4463.52	-23731.60	-16635.90	-42874.20	9.607
4	P	1	SND	-23439.70	-914.84	-9535.25	-23439.70	-6229.92	-65204.80	6.838
5	P	1	SND	-23221.00	-498.97	-17092.30	-23221.00	-2172.55	-73875.00	4.322
6	P	1	SND	-23002.40	-1108.93	-24814.90	-23002.40	-3080.60	-71738.60	2.891
7	P	9	SND	-22356.70	1829.52	32336.70	-22356.70	4412.98	68855.80	2.130
8	P	9	SND	-22138.10	2760.76	40792.60	-22138.10	4411.35	68800.60	1.686
9	P	9	SND	-21919.40	3692.72	49256.50	-21919.40	5202.37	67020.20	1.361
10	T	9	SND	-21482.20	5557.44	66196.70	-21482.20	5197.25	66888.90	1.010
11	P	1	SND	-9987.93	-4071.21	-54344.70	-9987.93	-4971.45	-63979.30	1.178

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-29853.60	-952.24	-2457.28	16.98	221.66
1	P	20	SLE Q	-27103.30	-829.95	-2149.56	15.09	197.57
2	P	18	SLE R	-29635.00	-786.22	-2082.92	15.40	203.72
2	P	20	SLE Q	-26884.70	-684.77	-1811.43	13.69	181.63
3	P	18	SLE R	-29416.40	-620.20	-1708.56	13.84	185.91
3	P	20	SLE Q	-26666.10	-539.60	-1473.31	12.30	165.74
4	P	18	SLE R	-29197.70	-454.18	-1334.21	12.27	168.10
4	P	20	SLE Q	-26447.50	-394.43	-1135.19	10.91	149.85
5	P	18	SLE R	-28979.10	-288.15	-959.86	10.71	150.29
5	P	20	SLE Q	-26228.80	-249.26	-797.07	9.52	133.95
6	P	18	SLE R	-28760.50	-122.13	-585.51	9.14	132.48
6	P	20	SLE Q	-26010.20	-104.09	-458.95	8.13	118.06
7	P	18	SLE R	-28541.90	43.89	-211.16	8.10	119.74
7	P	20	SLE Q	-25791.60	41.08	-120.83	7.22	106.91
8	P	18	SLE R	-28323.20	209.92	163.18	8.94	127.53
8	P	20	SLE Q	-25573.00	186.25	217.29	8.16	116.33
9	P	18	SLE R	-28104.60	375.94	537.53	10.39	143.60
9	P	20	SLE Q	-25354.30	331.43	555.40	9.43	130.49
10	T	18	SLE R	-27667.40	707.99	1286.23	13.29	175.76
10	T	20	SLE Q	-24917.10	621.77	1231.64	11.98	158.81
11	P	18	SLE R	-15300.80	-536.93	-1636.52	9.63	124.07
11	P	20	SLE Q	-13627.80	-501.23	-1375.94	8.60	110.26

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	26667.20	2.50	31185.40	80671.90	1.169
2	P	9	26667.20	2.50	31185.40	80639.30	1.169
3	P	9	26667.20	2.50	31185.40	80606.70	1.169
4	P	9	26667.20	2.50	31185.40	80574.10	1.169
5	P	9	26667.20	2.50	31185.40	80541.50	1.169
6	P	9	26667.20	2.50	31185.40	80508.90	1.169
7	P	9	26667.20	2.50	31185.40	80476.30	1.169
8	P	9	26667.20	2.50	31185.40	80443.70	1.169
9	P	9	26667.20	2.50	31185.40	80411.10	1.169
10	T	9	26667.20	2.50	31185.40	80345.90	1.169

Numero del nucleo n. 329

Nodi: -37684 -38595 -38596 -38597 -38691 -37873

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
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Relazione di calcolo

1	P	17	SLU	-27493.80	736.42	-773.84	-809194.00	22186.60	-23543.80	29.432
2	P	17	SLU	-23977.80	447.91	941.07	-642438.00	16346.70	33822.50	26.793
3	P	17	SLU	-4504.74	133.75	-69.52	-4504.74	4459.84	-2357.88	33.468
4	P	17	SLU	-22492.20	427.24	89.09	-642438.00	17481.50	3754.62	28.563
5	P	17	SLU	-26748.50	473.25	-422.36	-809194.00	22173.60	-19790.50	30.252
6	P	17	SLU	-21355.10	302.00	-201.38	-642438.00	17350.60	-11565.30	30.084
7	P	17	SLU	-5187.03	64.26	-3.04	-166756.00	4851.03	-191.45	32.149
8	P	17	SLU	-21064.60	233.57	-145.46	-642438.00	17321.80	-10778.20	30.498
9	P	17	SLU	-20803.40	163.97	-67.20	-642438.00	17390.90	-7229.56	30.881
10	P	17	SLU	-20546.30	93.75	14.19	-642438.00	17257.30	2698.91	31.268
11	P	17	SLU	-25506.30	34.66	163.39	-809194.00	16326.60	77406.20	31.725
12	P	17	SLU	-19934.80	-49.23	123.56	-642438.00	-15249.90	38699.50	32.227
13	P	17	SLU	-5616.68	-16.52	-27.00	-166756.00	-2568.23	-4266.66	29.689
14	P	17	SLU	-19392.80	-124.25	40.45	-642438.00	-17330.10	5517.30	33.128
15	P	17	SLU	-24761.00	-228.51	514.89	-809194.00	-20943.40	46516.00	32.680
16	T	17	SLU	-16300.40	-356.52	-1696.49	-16300.40	-10685.30	-52055.30	30.654

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	-8932.94	2074.47	-13367.80	-8932.94	8360.76	-53657.30	4.014
2	P	13	SND	-3461.54	1165.46	6342.55	-3461.54	6305.67	34487.30	5.437
3	P	5	SND	4509.98	206.71	170.91	4509.98	2063.81	2093.38	9.965
4	P	5	SND	-5262.31	1152.08	-5134.25	-5262.31	6971.47	-31299.00	6.094
5	P	5	SND	-8359.60	1062.47	-11449.50	-8359.60	5955.06	-59886.00	5.234
6	P	5	SND	-659.94	743.95	-6653.10	-659.94	4031.38	-35957.20	5.405
7	P	13	SND	-16146.10	-86.88	124.90	-117583.00	-2251.74	3181.62	7.282
8	P	5	SND	1846.59	702.16	-8377.14	1846.59	2918.67	-37182.90	4.421
9	P	13	SND	14669.30	845.91	10267.80	14669.30	3234.04	35525.90	3.536
10	P	13	SND	18384.00	1014.31	12487.50	18384.00	3168.08	34505.70	2.820
11	P	13	SND	-3553.41	1560.16	30624.20	-3553.41	3520.79	63929.00	2.088
12	P	13	SND	25821.90	1409.58	17201.80	25821.90	2647.33	33186.20	1.958
13	P	5	SND	25621.60	-516.01	49.99	25621.60	-1479.84	695.16	2.942
14	P	5	SND	15204.90	-1824.21	-19701.60	15204.90	-3257.81	-32412.10	1.636
15	P	13	SND	-2980.07	-2187.63	44669.80	-2980.07	-3480.08	63672.30	1.426
16	T	5	SND	25648.70	-2942.17	-24875.40	25648.70	-3543.80	-28360.50	1.138

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-20272.10	538.27	-513.43	8.78	115.26
1	P	20	SLE Q	-18742.60	506.14	-409.79	8.09	105.97
2	P	18	SLE R	-17581.10	328.71	676.34	9.35	124.69
2	P	20	SLE Q	-16200.60	309.30	648.14	8.71	115.95
3	P	18	SLE R	-3362.04	96.11	-48.65	8.47	100.98
3	P	20	SLE Q	-3128.32	89.69	-43.93	7.85	93.73
4	P	18	SLE R	-16527.90	310.64	76.15	7.74	103.90
4	P	20	SLE Q	-15232.10	291.03	93.08	7.21	96.64
5	P	18	SLE R	-19698.80	340.96	-279.43	7.23	98.13
5	P	20	SLE Q	-18169.30	317.99	-231.10	6.66	90.26
6	P	18	SLE R	-15707.30	215.75	-133.65	6.64	91.51
6	P	20	SLE Q	-14469.70	200.14	-113.54	6.11	84.15
7	P	18	SLE R	-3823.68	45.12	-1.87	6.26	85.18
7	P	20	SLE Q	-3517.51	41.51	-1.11	5.74	78.22
8	P	18	SLE R	-15492.90	164.32	-96.80	6.14	85.94
8	P	20	SLE Q	-14269.60	151.06	-85.93	5.65	79.05
9	P	18	SLE R	-15299.50	112.11	-44.02	5.69	81.05
9	P	20	SLE Q	-14089.00	101.25	-43.50	5.22	74.42
10	P	18	SLE R	-15109.20	59.46	11.09	5.35	77.73
10	P	20	SLE Q	-13911.20	51.04	1.11	4.88	71.09
11	P	18	SLE R	-18743.30	12.14	110.54	4.92	73.30
11	P	20	SLE Q	-17213.70	4.42	66.69	4.44	66.37
12	P	18	SLE R	-14659.50	-47.70	83.54	5.26	76.46
12	P	20	SLE Q	-13490.70	-51.10	54.68	4.85	70.34
13	P	18	SLE R	-4094.76	-15.51	-19.12	6.31	86.20
13	P	20	SLE Q	-3709.44	-16.38	-17.75	5.79	78.82
14	P	18	SLE R	-14266.30	-103.87	21.57	5.42	77.03
14	P	20	SLE Q	-13122.10	-104.61	-10.90	4.99	70.75
15	P	18	SLE R	-18169.90	-185.16	344.56	6.04	84.67
15	P	20	SLE Q	-16640.40	-183.73	245.39	5.52	77.18
16	T	18	SLE R	-12038.20	-278.23	-1224.82	8.00	106.88
16	T	20	SLE Q	-11044.80	-271.46	-1185.46	7.58	100.85

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	19818.30	2.50	35610.90	88851.70	1.797
2	P	5	15600.50	2.50	28235.00	71091.90	1.810

Relazione di calcolo

3	P	13	2155.20	2.50	6107.26	15107.40	2.834
4	P	5	17743.60	2.50	28235.00	70626.00	1.591
5	P	13	19818.30	2.50	35610.90	88765.80	1.797
6	P	13	17791.20	2.50	28235.00	69844.50	1.587
7	P	13	2073.45	2.50	6107.26	15107.40	2.945
8	P	13	17744.90	2.50	28235.00	69844.50	1.591
9	P	13	17749.40	2.50	28235.00	69844.50	1.591
10	P	13	17747.80	2.50	28235.00	69844.50	1.591
11	P	13	19818.30	2.50	35610.90	88622.60	1.797
12	P	13	17861.00	2.50	28235.00	69844.50	1.581
13	P	13	2131.00	2.50	6107.26	15107.40	2.866
14	P	13	17687.90	2.50	28235.00	69844.50	1.596
15	P	13	19818.30	2.50	35610.90	88536.70	1.797
16	P	5	10012.20	2.50	28235.00	69844.50	2.820

Numero del nucleo n. 330

Nodi: 2090 -38369 -38370 -38371 -37680

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	TP	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-26951.30	1344.71	1559.41	-26951.30	12778.40	14718.40	9.466
2	P	17	SLU	-26752.60	1138.94	1331.18	-26752.60	12758.60	14724.20	11.118
3	P	17	SLU	-26553.80	933.17	1102.96	-26553.80	12712.50	15183.10	13.706
4	P	17	SLU	-26355.10	727.40	874.73	-26355.10	12694.70	15189.70	17.401
5	P	17	SLU	-26156.30	521.63	646.50	-580480.00	12654.40	15863.70	22.193
6	P	17	SLU	-25957.60	315.86	418.28	-580480.00	12615.60	16527.60	22.363
7	P	17	SLU	-25758.90	110.09	190.06	-580480.00	12323.50	21476.80	22.535
8	P	17	SLU	-25560.10	-95.69	-38.17	-580480.00	-12844.40	-5190.37	22.710
9	P	17	SLU	-25361.40	-301.45	-266.39	-580480.00	-12745.70	-11169.90	22.888
10	P	17	SLU	-25162.60	-507.23	-494.62	-580480.00	-12707.00	-12299.40	23.069
11	P	17	SLU	-24963.90	-712.99	-722.84	-24963.90	-12659.80	-12817.50	17.744
12	P	17	SLU	-24765.10	-918.77	-951.07	-24765.10	-12624.40	-13027.70	13.719
13	T	17	SLU	-24367.60	-1330.31	-1407.52	-24367.60	-12587.70	-13440.00	9.508
14	P	17	SLU	-14213.10	940.07	1012.48	-14213.10	11652.30	12476.10	12.356

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	-4519.87	2380.08	6997.46	-4519.87	6255.05	18763.80	2.676
2	P	13	SND	-4366.98	2018.00	6993.37	-4366.98	5952.73	20320.50	2.909
3	P	13	SND	-4214.10	1659.72	7452.77	-4214.10	5187.81	22630.20	3.041
4	P	13	SND	-4061.21	1308.13	8302.40	-4061.21	3974.30	25497.30	3.070
5	P	13	SND	-3908.33	969.81	9426.14	-3908.33	2802.61	27762.70	2.945
6	P	13	SND	-3755.44	661.00	10727.00	-3755.44	1778.41	29356.90	2.737
7	P	13	SND	-3602.56	419.40	12140.80	-3602.56	854.79	30552.80	2.516
8	P	13	SND	-3449.67	-487.44	13628.20	-3449.67	-853.30	30489.70	2.237
9	P	13	SND	-3296.79	-776.42	15165.00	-3296.79	-1459.54	29644.40	1.955
10	P	13	SND	-3143.91	-1105.83	16736.30	-3143.91	-2096.63	28688.70	1.715
11	P	5	SND	-6043.01	-1240.91	-19195.90	-6043.01	-2120.81	-29596.00	1.543
12	P	5	SND	-5890.13	-1543.79	-21065.10	-5890.13	-2118.45	-29532.80	1.402
13	T	5	SND	-5584.36	-2161.83	-24841.80	-5584.36	-2459.92	-28901.10	1.163
14	P	9	SND	-2567.41	3454.62	10409.70	-2567.41	6024.86	18502.80	1.774

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cmq>	σf <daN/cmq>
1	P	18	SLE R	-19844.50	924.55	1097.41	16.41	207.05
1	P	20	SLE Q	-18272.80	927.01	842.36	15.44	192.73
2	P	18	SLE R	-19691.60	781.44	934.09	14.75	188.75
2	P	20	SLE Q	-18119.90	783.87	714.94	13.81	175.00
3	P	18	SLE R	-19538.70	638.34	770.78	13.22	171.88
3	P	20	SLE Q	-17967.10	640.74	587.53	12.33	158.93
4	P	18	SLE R	-19385.80	495.24	607.46	11.72	155.31
4	P	20	SLE Q	-17814.20	497.60	460.11	10.91	143.35
5	P	18	SLE R	-19233.00	352.14	444.15	10.22	138.74
5	P	20	SLE Q	-17661.30	354.46	332.70	9.48	127.77
6	P	18	SLE R	-19080.10	209.04	280.83	8.73	122.17
6	P	20	SLE Q	-17508.40	211.32	205.28	8.05	112.19
7	P	18	SLE R	-18927.20	65.94	117.52	7.23	105.60
7	P	20	SLE Q	-17355.50	68.18	77.87	6.63	96.61

Relazione di calcolo

8P	18	SLE R	-18774.30	-77.17	-45.79	7.12	103.71
8P	20	SLE Q	-17202.60	-74.96	-49.55	6.57	95.58
9P	18	SLE R	-18621.40	-220.26	-209.10	8.51	118.71
9P	20	SLE Q	-17049.80	-218.09	-176.96	7.89	109.59
10P	18	SLE R	-18468.50	-363.37	-372.42	9.91	133.72
10P	20	SLE Q	-16896.90	-361.24	-304.38	9.22	123.60
11P	18	SLE R	-18315.70	-506.47	-535.73	11.30	148.72
11P	20	SLE Q	-16744.00	-504.37	-431.79	10.54	137.61
12P	18	SLE R	-18162.80	-649.57	-699.05	12.69	163.72
12P	20	SLE Q	-16591.10	-647.51	-559.21	11.86	151.66
13T	18	SLE R	-17857.00	-935.77	-1025.68	15.87	197.75
13T	20	SLE Q	-16285.30	-933.79	-814.04	15.02	184.78
14P	18	SLE R	-10649.00	617.77	736.27	10.48	127.76
14P	20	SLE Q	-9580.14	616.57	635.83	10.09	120.85

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	5	7983.65	2.50	28294.00	71117.20	3.544	
2P	5	7983.65	2.50	28294.00	71094.50	3.544	
3P	5	7983.65	2.50	28294.00	71071.70	3.544	
4P	5	7983.65	2.50	28294.00	71049.00	3.544	
5P	5	7983.65	2.50	28294.00	71026.20	3.544	
6P	5	7983.65	2.50	28294.00	71003.50	3.544	
7P	5	7983.65	2.50	28294.00	70980.70	3.544	
8P	5	7983.65	2.50	28294.00	70958.00	3.544	
9P	5	7983.65	2.50	28294.00	70935.20	3.544	
10P	5	7983.65	2.50	28294.00	70912.50	3.544	
11P	5	7983.65	2.50	28294.00	70889.70	3.544	
12P	5	7983.65	2.50	28294.00	70867.00	3.544	
13T	5	7983.65	2.50	28294.00	70821.50	3.544	

Numero del nucleo n. 331

Nodi: 2018 -16066 -16065 -16064 -16063 -16062 2021

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU	-30112.50	-1513.49	-964.41	-30112.50	-16561.60	-10658.40	10.974	
2P	17	SLU	-29725.00	-1365.60	-948.91	-29725.00	-16518.80	-11268.20	12.025	
3P	17	SLU	-29337.40	-1217.70	-933.40	-29337.40	-16516.80	-12612.10	13.545	
4P	17	SLU	-28949.80	-1069.80	-917.90	-28949.80	-16509.70	-14134.20	15.418	
5P	17	SLU	-28562.30	-921.90	-902.40	-28562.30	-16466.80	-15868.10	17.727	
6P	17	SLU	-28174.70	-774.01	-886.90	-28174.70	-16348.90	-18641.10	21.063	
7P	17	SLU	-24406.20	1270.60	1663.94	-24406.20	16005.10	20680.40	12.491	
8P	17	SLU	-24018.60	1174.22	1681.14	-24018.60	15930.40	22786.50	13.558	
9P	17	SLU	-23631.10	1077.84	1698.34	-23631.10	15850.50	24986.20	14.710	
10P	17	SLU	-23243.50	981.46	1715.55	-23243.50	15787.50	27480.70	16.035	
11P	17	SLU	-18711.70	-1406.06	-686.77	-18711.70	-15495.70	-7593.68	11.028	

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	13	SND	3328.34	-3978.60	-9194.14	3328.34	-7286.12	-16529.50	1.803	
2P	13	SND	3626.46	-2826.57	7349.76	3626.46	-7113.45	18413.50	2.507	
3P	9	SND	2448.81	-1711.66	-6152.24	2448.81	-7018.00	-24465.40	3.986	
4P	5	SND	3556.17	-1187.91	-11442.90	3556.17	-5026.02	-47335.90	4.138	
5P	5	SND	3854.30	-2001.16	-14877.70	3854.30	-5786.50	-44253.50	2.973	
6P	5	SND	4152.42	-2935.13	-18744.00	4152.42	-6237.55	-42156.50	2.246	
7P	13	SND	6994.11	2202.56	22640.70	6994.11	4271.02	47901.50	2.114	
8P	13	SND	7292.23	2897.57	26744.70	7292.23	4865.14	45634.70	1.706	
9P	13	SND	7590.35	3615.54	30916.50	7590.35	5215.55	44187.50	1.429	
10T	13	SND	8186.61	5072.79	39373.40	8186.61	5578.48	42384.90	1.077	
11P	13	SND	-5392.87	-6838.56	16399.40	-5392.87	-8002.95	19428.00	1.183	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1P	18	SLE R	-22370.70	-1064.95	-628.51	11.53	144.25	
1P	20	SLE Q	-21230.50	-1044.85	-473.14	11.03	137.29	
2P	18	SLE R	-22072.60	-958.54	-619.61	10.84	136.91	

Relazione di calcolo

2	P	20	SLE Q	-20932.30	-940.69	-499.86	10.38	130.49
3	P	18	SLE R	-21774.40	-852.14	-610.71	10.19	129.91
3	P	20	SLE Q	-20634.20	-836.52	-526.58	9.76	124.01
4	P	18	SLE R	-21476.30	-745.74	-601.81	9.54	123.02
4	P	20	SLE Q	-20336.10	-732.36	-553.30	9.16	117.69
5	P	18	SLE R	-21178.20	-639.33	-592.92	8.89	116.12
5	P	20	SLE Q	-20038.00	-628.20	-580.03	8.56	111.37
6	P	18	SLE R	-20880.10	-532.93	-584.02	8.25	109.22
6	P	20	SLE Q	-19739.80	-524.03	-606.75	7.95	105.05
7	P	18	SLE R	-18285.50	861.34	1146.92	10.00	126.05
7	P	20	SLE Q	-17147.80	864.24	1086.56	9.75	122.07
8	P	18	SLE R	-17987.30	798.30	1156.94	9.56	121.33
8	P	20	SLE Q	-16849.60	801.38	1060.91	9.26	116.70
9	P	18	SLE R	-17689.20	735.25	1166.96	9.14	116.73
9	P	20	SLE Q	-16551.50	738.53	1035.27	8.79	111.49
10	P	18	SLE R	-17391.10	672.20	1176.98	8.72	112.24
10	P	20	SLE Q	-16253.40	675.67	1009.62	8.34	106.42
11	P	18	SLE R	-14212.10	-979.11	-464.96	9.65	112.41
11	P	20	SLE Q	-13290.20	-961.09	-432.31	9.41	108.42

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	13847.80	2.50	43045.80	106482.00	3.108
2	P	5	13847.80	2.50	43045.80	106482.00	3.108
3	P	5	13847.80	2.50	43045.80	106482.00	3.108
4	P	5	13847.80	2.50	43045.80	106482.00	3.108
5	P	5	13847.80	2.50	43045.80	106482.00	3.108
6	P	5	13847.80	2.50	43045.80	106482.00	3.108
7	P	5	13805.80	2.50	43045.80	106482.00	3.118
8	P	5	13805.80	2.50	43045.80	106482.00	3.118
9	P	5	13805.80	2.50	43045.80	106482.00	3.118
10	T	5	13805.80	2.50	43045.80	106482.00	3.118

Numero del nucleo n. 332

Nodi: 2039 2040 -32062 -32061 -32060 -32059 -32058 -32057 2041

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-22796.40	-174.45	5631.63	-22796.40	-4750.31	193912.00	34.426
2	P	17	SLU	-20399.80	-95.48	5311.81	-20399.80	-1441.64	151688.00	28.553
3	P	17	SLU	-22001.70	-135.61	3128.72	-1160960.00	-6801.18	188985.00	52.767
4	P	17	SLU	-2573.24	-26.57	1.90	-149054.00	-3219.09	209.24	57.925
5	P	17	SLU	-19030.40	-89.60	2000.02	-1011910.00	-6700.96	142489.00	53.173
6	P	17	SLU	-18820.80	-76.58	877.98	-1011910.00	-10948.70	130360.00	53.765
7	P	17	SLU	-20809.00	-77.33	-628.22	-1160960.00	-17310.30	-146631.00	55.791
8	P	17	SLU	-18691.70	-47.11	-1065.44	-1011910.00	-6760.27	-136293.00	54.137
9	P	17	SLU	-18637.20	-32.58	-2017.09	-1011910.00	-3319.83	-142749.00	54.295
10	P	17	SLU	-1113.68	0.10	2.04	-149054.00	136.37	2745.11	>100
11	P	17	SLU	-18502.60	-19.14	-3048.81	-18502.60	-1457.90	-144738.00	47.475
12	P	17	SLU	-18205.40	-7.97	-4237.92	-18205.40	-1458.64	-144570.00	34.115
13	P	17	SLU	-18821.60	19.79	-6888.06	-18821.60	-724.97	-196715.00	28.559
14	P	17	SLU	-1895.41	41.61	-65.77	-1895.41	1871.56	-2949.11	44.881
15	P	17	SLU	-16528.10	-2.37	-7668.80	-16528.10	-727.58	-144093.00	18.790
16	T	17	SLU	-14368.30	-61.96	-12154.80	-14368.30	-1468.19	-142393.00	11.716

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yzd <daNm>	Sic.
1	P	13	SND	-7445.71	7679.91	25649.50	-7445.71	12235.50	40124.60	1.567
2	P	13	SND	-2566.52	6094.41	18542.90	-2566.52	10311.30	31909.40	1.718
3	P	5	SND	-7602.92	-4955.61	16580.60	-7602.92	-12253.60	40154.00	2.426
4	P	5	SND	4209.44	-229.79	44.59	4209.44	-2047.55	759.99	8.475
5	P	13	SND	-415.58	3405.32	-8756.64	-415.58	10145.10	-26013.80	2.972
6	P	13	SND	-170.21	2128.30	13310.50	-170.21	9382.63	57648.60	4.333
7	P	1	SND	-6529.93	-830.35	-19749.00	-6529.93	-4103.27	-108109.00	5.473
8	P	1	SND	-1932.26	382.05	-13411.40	-1932.26	2021.23	-81304.70	6.062
9	P	5	SND	-1843.70	1622.59	-13790.40	-1843.70	7685.85	-64036.50	4.645
10	P	5	SND	4178.07	323.00	35.38	4178.07	2206.66	513.45	6.839
11	P	13	SND	314.88	-2868.87	10182.20	314.88	-9981.99	34306.30	3.379
12	P	13	SND	762.17	-4154.93	-12704.90	762.17	-9861.87	-30210.80	2.376

Relazione di calcolo

13	P	13	SND	-4388.19	-5898.61	-19740.50	-4388.19	-11924.10	-39678.90	2.011
14	P	5	SND	6008.67	448.17	91.83	6008.67	1949.59	634.16	4.363
15	P	5	SND	2695.81	6813.10	-15523.40	2695.81	10051.90	-22650.10	1.460
16	T	13	SND	10012.00	-9559.78	-13106.80	10012.00	-10839.00	-14758.40	1.127

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_e <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-16637.80	-113.80	4051.38	5.35	76.79
1	P	20	SLE Q	-15599.30	6.25	3130.10	4.28	63.15
2	P	18	SLE R	-14818.50	-59.49	3774.44	5.74	81.17
2	P	20	SLE Q	-14030.90	39.37	3097.69	5.04	71.74
3	P	18	SLE R	-16026.60	-88.73	2261.85	4.24	61.16
3	P	20	SLE Q	-14988.00	5.37	1591.77	3.39	50.31
4	P	18	SLE R	-1888.24	-18.40	1.78	3.14	44.00
4	P	20	SLE Q	-1642.18	-11.23	0.20	2.63	37.14
5	P	18	SLE R	-13832.10	-57.79	1440.29	3.97	56.86
5	P	20	SLE Q	-13039.60	16.16	1013.87	3.34	48.73
6	P	18	SLE R	-13667.60	-49.75	642.43	3.36	48.72
6	P	20	SLE Q	-12853.30	11.85	320.22	2.82	41.65
7	P	18	SLE R	-15109.10	-51.12	-424.28	3.00	43.89
7	P	20	SLE Q	-14070.50	4.05	-717.32	2.79	41.51
8	P	18	SLE R	-13539.70	-31.16	-744.74	3.26	47.92
8	P	20	SLE Q	-12662.80	6.61	-877.63	3.07	45.53
9	P	18	SLE R	-13481.60	-22.01	-1425.36	3.66	53.82
9	P	20	SLE Q	-12571.60	4.20	-1466.37	3.43	50.76
10	P	18	SLE R	-826.09	0.14	1.41	1.11	16.67
10	P	20	SLE Q	-726.82	1.70	-0.13	1.07	15.49
11	P	18	SLE R	-13365.50	-13.65	-2163.93	4.10	60.14
11	P	20	SLE Q	-12426.20	1.03	-2108.94	3.82	56.31
12	P	18	SLE R	-13132.10	-6.96	-3016.12	4.59	67.28
12	P	20	SLE Q	-12172.20	-3.72	-2856.68	4.28	62.82
13	P	18	SLE R	-13580.30	11.55	-4899.93	4.86	71.19
13	P	20	SLE Q	-12541.80	1.86	-4564.74	4.48	65.70
14	P	18	SLE R	-1391.37	29.82	-47.58	4.42	49.64
14	P	20	SLE Q	-1297.38	26.11	-45.35	4.10	46.00
15	P	18	SLE R	-11882.70	-5.73	-5481.06	6.33	91.88
15	P	20	SLE Q	-10938.20	-24.70	-5058.09	5.95	85.88
16	T	18	SLE R	-10286.00	-51.51	-8708.27	10.65	161.78
16	T	20	SLE Q	-9397.62	-88.84	-7954.64	10.06	151.31

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cm ² >	A _{c eff} <cm ² >	σ_s <daN/cm ² >	ϵ_{sm}	W _k <mm>
15	P	20	SLE Q	-10938.20	-24.70	-5058.09	33.00	168.00	0.50	16.00	167.65	4.02	255.48	25.73	0.01	0.00
15	P	19	SLE F	-11152.20	-22.36	-5156.35	33.00	168.00	0.50	16.00	167.96	4.02	256.25	26.05	0.01	0.00
16	T	20	SLE Q	-9397.62	-88.84	-7954.64	33.00	158.00	0.50	16.00	190.12	4.02	311.95	151.31	0.04	0.01
16	T	19	SLE F	-9595.33	-82.86	-8133.77	33.00	158.00	0.50	16.00	190.37	4.02	312.58	154.30	0.04	0.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	10210.70	2.50	57797.70	144081.00	5.660
2	P	9	9960.85	2.50	50421.80	125105.00	5.062
3	P	9	10210.70	2.50	57797.70	143988.00	5.660
4	P	9	334.71	2.50	6166.24	15253.30	18.422
5	P	9	9878.00	2.50	50421.80	124775.00	5.104
6	P	9	9844.62	2.50	50421.80	124737.00	5.122
7	P	9	10210.70	2.50	57797.70	143849.00	5.660
8	P	9	9817.12	2.50	50421.80	124728.00	5.136
9	P	9	9834.00	2.50	50421.80	124728.00	5.127
10	P	9	344.18	2.50	6166.26	15253.40	17.916
11	P	9	9867.30	2.50	50421.80	124728.00	5.110
12	P	9	9896.38	2.50	50421.80	124728.00	5.095
13	P	9	10210.70	2.50	57797.70	143617.00	5.660
14	P	9	2858.00	2.50	6166.24	15253.30	2.158
15	P	9	9833.28	2.50	50421.80	124728.00	5.128
16	P	9	11405.70	2.50	50421.80	124728.00	4.421

Numero del nucleo n. 333

Nodi: -25324 -25323 -10394 -29028 -562 -32980 -32979 -29032 -29111 -24937 -25648 -25647

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf	Cls	F _{ck} <daN/cm ² >	F _{ctk} <daN/cm ² >	F _{cd} <daN/cm ² >	F _{ctd} <daN/cm ² >	Tp	F _{yk} <daN/cm ² >	F _{yd} <daN/cm ² >
25.00	4.70	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-45316.90	-1463.07	-2101.09	-2049320.00	-79378.60	-116088.00	45.222
2	P	17	SLU	-15918.30	-166.58	136.69	-505915.00	-17631.00	14560.70	31.782
3	P	17	SLU	-34830.60	-792.70	1838.90	-1491410.00	-54798.10	125085.00	42.819
4	P	17	SLU	-30234.20	-668.20	-2065.63	-1472590.00	-54229.70	-167059.00	48.706
5	P	17	SLU	-13651.60	-206.49	-320.08	-505915.00	-14697.40	-23006.20	37.059
6	P	17	SLU	-12529.30	-169.00	-285.97	-505915.00	-14175.90	-24087.30	40.378
7	P	17	SLU	-42932.00	-482.57	-1152.26	-2049320.00	-77817.20	-190290.00	47.734
8	P	17	SLU	-11088.00	-70.71	-140.28	-505915.00	-13167.80	-26088.30	45.627
9	P	17	SLU	-10541.20	-18.83	-100.12	-505915.00	-7196.82	-37264.60	47.994
10	P	17	SLU	-31605.30	72.65	-166.37	-1472590.00	54981.60	-122975.00	46.593
11	P	17	SLU	-9895.59	33.16	-75.51	-505915.00	12248.60	-27913.70	51.125
12	P	17	SLU	-9037.44	83.35	-71.53	-505915.00	17516.40	-14869.80	55.980
13	P	17	SLU	-40547.10	497.92	-203.41	-2049320.00	79571.10	-32489.80	50.542
14	P	17	SLU	-21824.90	361.50	-1236.97	-985490.00	35655.50	-121851.00	45.154
15	P	17	SLU	-7091.40	152.23	-82.76	-505915.00	18058.10	-9774.82	71.342
16	P	17	SLU	-7004.23	141.64	-22.47	-505915.00	18296.50	-3021.97	72.230

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M' ydy <daNm>	M' ydz <daNm>	Sic.
1	P	9	SND	-26365.40	-2094.25	-42627.60	-26365.40	-19468.90	-399492.00	9.371
2	P	5	SND	-18255.10	-227.67	1368.63	-293488.00	-4435.71	27006.10	16.077
3	P	13	SND	-12432.00	-1121.34	-34706.10	-12432.00	-7175.10	-268802.00	7.744
4	P	13	SND	-12089.90	-896.20	-59224.20	-12089.90	-5956.98	-345829.00	5.840
5	P	5	SND	-18925.90	-253.40	979.12	-293488.00	-6303.26	24694.90	15.507
6	P	5	SND	-19400.60	-187.93	890.69	-293488.00	-5447.85	25921.10	15.128
7	P	13	SND	-24916.60	-600.86	-80798.50	-24916.60	-5378.53	-469869.00	5.816
8	P	5	SND	-21457.90	-117.62	737.36	-293488.00	-4495.22	27437.20	13.677
9	P	5	SND	-22743.80	-132.61	674.75	-293488.00	-5301.81	26612.10	12.904
10	P	13	SND	-7296.82	-575.02	-103169.00	-7296.82	-4207.30	-348714.00	3.380
11	P	5	SND	-23965.00	-154.07	641.94	-293488.00	-6182.07	25644.40	12.246
12	P	5	SND	-24837.40	-172.93	665.92	-293488.00	-6496.81	25433.20	11.816
13	P	5	SND	-19486.90	1701.27	131111.00	-19486.90	7718.81	454377.00	3.466
14	P	13	SND	32475.10	-735.37	-71691.70	32475.10	-1640.28	-124960.00	1.714
15	P	5	SND	-25315.60	-160.04	920.26	-293488.00	-4951.84	27469.00	11.593
16	T	5	SND	12563.50	325.74	3326.35	12563.50	2312.11	24666.80	7.176

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-33758.90	-1034.35	-1440.69	6.37	81.48
1	P	20	SLE Q	-31636.90	-869.27	-1271.64	5.71	73.85
2	P	18	SLE R	-11653.60	-117.80	95.55	6.26	86.96
2	P	20	SLE Q	-10880.60	-97.33	90.46	5.73	80.13
3	P	18	SLE R	-25861.60	-558.70	1305.57	6.26	82.52
3	P	20	SLE Q	-24167.10	-467.65	1263.24	5.69	75.69
4	P	18	SLE R	-22594.80	-469.90	-1407.86	5.13	68.01
4	P	20	SLE Q	-21128.20	-392.53	-1208.78	4.61	61.76
5	P	18	SLE R	-10063.20	-145.07	-222.94	6.74	89.08
5	P	20	SLE Q	-9407.82	-120.96	-206.08	6.15	81.86
6	P	18	SLE R	-9273.30	-118.23	-199.39	6.04	80.41
6	P	20	SLE Q	-8672.92	-98.22	-184.47	5.52	74.01
7	P	18	SLE R	-31924.40	-335.48	-759.23	4.34	60.54
7	P	20	SLE Q	-29802.40	-276.38	-577.89	3.93	55.21
8	P	18	SLE R	-8249.73	-48.09	-98.00	4.48	62.58
8	P	20	SLE Q	-7716.47	-38.74	-90.27	4.13	57.91
9	P	18	SLE R	-7857.33	-11.08	-70.00	3.84	55.37
9	P	20	SLE Q	-7347.84	-7.37	-64.12	3.55	51.44
10	P	18	SLE R	-23429.60	57.88	-61.06	3.65	53.72
10	P	20	SLE Q	-21790.20	55.38	96.46	3.45	50.69
11	P	18	SLE R	-7393.86	26.02	-52.82	3.70	52.86
11	P	20	SLE Q	-6911.24	24.03	-47.95	3.45	49.32
12	P	18	SLE R	-6779.76	61.84	-50.16	3.77	51.95
12	P	20	SLE Q	-6330.90	54.30	-45.11	3.48	48.12
13	P	18	SLE R	-30089.90	363.38	-77.76	4.04	55.72
13	P	20	SLE Q	-27967.80	316.52	115.88	3.72	51.48
14	P	18	SLE R	-16096.10	261.24	-839.70	4.90	66.15
14	P	20	SLE Q	-14871.20	227.29	-684.08	4.42	60.00
15	P	18	SLE R	-5385.99	110.57	-58.55	3.66	47.68
15	P	20	SLE Q	-5011.40	95.32	-51.66	3.32	43.55
16	T	18	SLE R	-5216.16	89.20	-162.62	3.83	49.71
16	T	20	SLE Q	-4846.52	77.36	-157.74	3.53	46.02

Definizione Pareti

Liv. 1 Par. 1 dal nodo -25324 al nodo -25647
 Liv. 2 Par. 1 dal nodo -33007 al nodo -29149
 Liv. 3 Par. 1/1 dal nodo -34318 al nodo -10605
 Par. 1/2 dal nodo -33008 al nodo -29150
 Par. 1/3 dal nodo -25735 al nodo -33783
 Liv. 4 Par. 1/1 dal nodo -34317 al nodo -33009
 Par. 1/2 dal nodo -29151 al nodo -34298
 Liv. 5 Par. 1 dal nodo -33009 al nodo -29151
 Liv. 6 Par. 1 dal nodo -33010 al nodo -29152
 Liv. 7 Par. 1 dal nodo -34315 al nodo -34300
 Liv. 8 Par. 1 dal nodo -33012 al nodo -29154
 Liv. 9 Par. 1 dal nodo -33013 al nodo -29155
 Liv. 10 Par. 1/1 dal nodo -34312 al nodo -33014
 Par. 1/2 dal nodo -29156 al nodo -34303
 Liv. 11 Par. 1 dal nodo -33014 al nodo -29156
 Liv. 12 Par. 1 dal nodo -33015 al nodo -29157
 Liv. 13 Par. 1 dal nodo -34310 al nodo -34305
 Liv. 14 Par. 1/1 dal nodo -34309 al nodo -10596
 Par. 1/2 dal nodo -25726 al nodo -33792
 Liv. 15 Par. 1 dal nodo -33017 al nodo -29159
 Liv. 16 Par. 1 dal nodo -33018 al nodo -29160

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	Par.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	5	44749.80	2.20	191239.00	191239.00	4.274	
2P	1	13	14549.10	2.19	46657.50	46657.50	3.207	
3P	1/1	5	12712.70	2.18	72496.10	72496.10	5.703	
3P	1/2	5	15822.60	2.19	46700.50	46700.50	2.951	
3P	1/3	5	5069.15	2.18	15655.30	15655.30	3.088	
4P	1/1	13	23072.10	2.18	90158.50	90158.50	3.908	
4P	1/2	13	5948.07	2.18	44878.50	44878.50	7.545	
5P	1	5	16622.80	2.19	46526.00	46526.00	2.799	
6P	1	5	16669.60	2.18	46354.40	46354.40	2.781	
7P	1	5	44749.80	2.20	191056.00	191056.00	4.269	
8P	1	5	16345.70	2.18	46323.60	46323.60	2.834	
9P	1	5	16179.10	2.18	46323.60	46323.60	2.863	
10P	1/1	13	22961.00	2.18	90158.50	90158.50	3.927	
10P	1/2	13	6701.42	2.18	44878.50	44878.50	6.697	
11P	1	5	15892.40	2.18	46323.60	46323.60	2.915	
12P	1	5	15345.90	2.18	46323.60	46323.60	3.019	
13P	1	5	44749.70	2.20	190872.00	190872.00	4.265	
14P	1/1	5	17285.30	2.18	72496.10	72496.10	4.194	
14P	1/2	5	5945.71	2.18	15655.30	15655.30	2.633	
15P	1	13	12104.30	2.18	46323.60	46323.60	3.827	
16P	1	13	10707.30	2.18	46323.60	46323.60	4.326	

Numero del nucleo n. 334

Nodi: -32787 -32786 -27240 -32785 -32784 -32675

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-9843.17	-114.85	2554.56	-9843.17	-1746.69	46101.00	18.041
2	P	17	SLU	-9539.77	-93.16	1999.07	-9539.77	-1744.28	45971.20	22.988
3	P	17	SLU	-9236.36	-71.47	1443.59	-9236.36	-2186.51	45320.00	31.392
4	P	17	SLU	-8932.96	-49.78	888.11	-8932.96	-2654.97	44628.40	50.261
5	P	17	SLU	-8629.55	-28.09	332.62	-630981.00	-3644.10	43187.60	73.119
6	P	17	SLU	-8326.15	-6.40	-222.87	-630981.00	-1026.98	-46051.30	75.783
7	P	17	SLU	-8022.74	15.29	-778.35	-8022.74	1029.65	-45907.70	58.984
8	P	17	SLU	-7719.34	36.98	-1333.84	-7719.34	1032.30	-45764.00	34.306
9	P	17	SLU	-7415.93	58.67	-1889.32	-7415.93	1034.92	-45620.40	24.141
10	T	17	SLU	-6809.13	102.05	-3000.29	-6809.13	1723.15	-44834.30	14.941

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	9	SND	-3312.99	609.52	10631.50	-3312.99	1685.84	27013.90	2.542
2	P	9	SND	-3079.61	609.84	8135.83	-3079.61	1984.86	26464.20	3.253
3	P	9	SND	-2846.22	612.80	5774.75	-2846.22	2603.03	25320.20	4.383
4	P	9	SND	-2612.83	618.51	3854.10	-2612.83	3580.05	22452.70	5.825
5	P	9	SND	-2379.44	627.01	3357.13	-2379.44	4068.42	20814.50	6.210

Relazione di calcolo

6	P	1	SND	-2523.19	-642.02	-4809.88	-2523.19	-3187.12	-23548.40	4.897
7	P	1	SND	-2289.80	-628.33	-7282.21	-2289.80	-2281.50	-25669.00	3.526
8	P	1	SND	-2056.42	-617.34	-9923.75	-2056.42	-1666.59	-26474.70	2.668
9	P	1	SND	-1823.02	524.99	-12630.00	-1823.02	1091.47	-27083.50	2.144
10	T	1	SND	-1356.25	-599.37	-18120.90	-1356.25	-1092.02	-26890.50	1.484

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _ε <daN/cmq>
1	P	18	SLE R	-7275.91	-82.15	1875.65	5.92	82.31
1	P	20	SLE Q	-6912.59	-71.29	1698.15	5.39	75.21
2	P	18	SLE R	-7042.52	-66.33	1468.24	4.94	69.34
2	P	20	SLE Q	-6679.20	-57.40	1328.14	4.54	63.81
3	P	18	SLE R	-6809.14	-50.50	1060.84	4.10	58.02
3	P	20	SLE Q	-6445.81	-43.52	958.13	3.78	53.62
4	P	18	SLE R	-6575.75	-34.67	653.44	3.29	47.03
4	P	20	SLE Q	-6212.42	-29.63	588.12	3.04	43.58
5	P	18	SLE R	-6342.36	-18.85	246.03	2.47	36.04
5	P	20	SLE Q	-5979.03	-15.74	218.10	2.30	33.53
6	P	18	SLE R	-6108.97	-3.02	-161.37	2.16	31.99
6	P	20	SLE Q	-5745.65	-1.85	-151.91	2.02	30.02
7	P	18	SLE R	-5875.58	12.81	-568.78	2.78	40.38
7	P	20	SLE Q	-5512.26	12.03	-521.92	2.59	37.64
8	P	18	SLE R	-5642.20	28.63	-976.18	3.45	49.21
8	P	20	SLE Q	-5278.87	25.92	-891.93	3.19	45.52
9	P	18	SLE R	-5408.81	44.46	-1383.59	4.24	59.39
9	P	20	SLE Q	-5045.48	39.81	-1261.94	3.88	54.45
10	T	18	SLE R	-4942.03	76.11	-2198.39	6.92	93.40
10	T	20	SLE Q	-4578.71	67.59	-2001.96	6.25	84.64

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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}	W _k <mm>
1	P	20	SLE Q	-6912.59	-71.29	1698.15	33.00	0.00	0.50	16.00	96.27	2.01	38.04	12.43	0.00	0.00
1	P	19	SLE F	-7002.03	-74.22	1740.89	33.00	168.00	0.50	16.00	98.23	2.01	40.50	13.51	0.00	0.00
9	P	20	SLE Q	-5045.48	39.81	-1261.94	33.00	168.00	0.50	16.00	99.72	2.01	42.37	8.65	0.00	0.00
9	P	19	SLE F	-5134.92	40.64	-1291.76	33.00	168.00	0.50	16.00	100.85	2.01	43.80	9.08	0.00	0.00
10	T	20	SLE Q	-4578.71	67.59	-2001.96	33.00	168.00	0.50	16.00	149.46	4.02	209.75	69.78	0.02	0.01
10	T	19	SLE F	-4668.15	69.35	-2049.92	33.00	168.00	0.50	16.00	149.79	4.02	210.59	72.10	0.02	0.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	8782.31	2.50	33436.00	83262.80	3.807
2	P	1	8782.31	2.50	33436.00	83227.90	3.807
3	P	1	8782.31	2.50	33436.00	83192.90	3.807
4	P	1	8782.31	2.50	33436.00	83158.00	3.807
5	P	1	8782.31	2.50	33436.00	83123.00	3.807
6	P	1	8782.31	2.50	33436.00	83088.10	3.807
7	P	1	8782.31	2.50	33436.00	83053.10	3.807
8	P	1	8782.31	2.50	33436.00	83018.20	3.807
9	P	1	8782.31	2.50	33436.00	82983.20	3.807
10	P	1	8782.31	2.50	33436.00	82948.30	3.807

Numero del nucleo n. 335

Nodi: 2019 -21583 -21582 -21581 -21488 -32588 -32587

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-22726.70	-153.80	572.78	-1094950.00	-30006.10	110019.00	48.179
2	P	17	SLU	-15846.20	-153.02	1224.81	-718164.00	-10032.20	80505.30	45.321
3	P	17	SLU	-6547.52	2.06	-140.96	-376784.00	466.28	-25893.60	57.546
4	P	17	SLU	-15583.00	-106.19	575.45	-718164.00	-13289.20	71290.00	46.086
5	P	17	SLU	-21832.30	-79.30	-567.60	-1094950.00	-21548.40	-158362.00	50.153
6	P	17	SLU	-15425.50	-48.07	-133.25	-718164.00	-17943.60	-48817.50	46.557
7	P	17	SLU	-5716.83	-2.24	-9.04	-376784.00	-5257.98	-21781.00	65.908
8	P	17	SLU	-15519.30	-27.40	-297.36	-718164.00	-6851.20	-79651.30	46.276
9	P	17	SLU	-15651.50	-8.57	-417.63	-718164.00	-2156.55	-86184.40	45.885
10	P	17	SLU	-15784.10	9.88	-529.88	-718164.00	1057.97	-87171.40	45.499
11	P	17	SLU	-20341.70	44.87	-2468.21	-1094950.00	3288.17	-215865.00	53.828

Relazione di calcolo

12	P	17	SLU	-15880.20	51.04	-878.38	-718164.00	4826.80	-83220.30	45.224
13	P	17	SLU	-4065.43	16.04	-92.23	-376784.00	4103.30	-22919.90	92.680
14	P	17	SLU	-15680.10	78.49	-1248.91	-718164.00	4826.76	-83172.50	45.801
15	P	17	SLU	-19447.30	119.36	-3608.53	-1094950.00	6648.68	-209940.00	56.303
16	T	17	SLU	-14378.80	210.93	-3470.29	-14378.80	4826.46	-82861.50	23.874

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	9	SND	-2047.52	-3312.63	12198.20	-2047.52	-21077.20	78165.30	6.405
2	P	1	SND	-1095.41	1618.13	4269.04	-1095.41	13483.70	35463.60	8.310
3	P	1	SND	-24748.10	-300.53	705.45	-235167.00	-6445.62	15178.50	9.502
4	P	1	SND	-380.26	973.63	3949.85	-380.26	10295.80	41744.30	10.569
5	P	9	SND	-1359.51	-574.63	-21692.80	-1359.51	-4168.58	-127206.00	5.865
6	P	9	SND	3041.57	239.64	-6928.49	3041.57	2059.07	-51489.20	7.339
7	P	1	SND	-44248.50	-511.98	557.23	-235167.00	-9229.31	9929.35	5.315
8	P	9	SND	7796.53	844.66	-9303.46	7796.53	4129.97	-46198.90	4.856
9	P	9	SND	12760.50	1463.75	-11735.60	12760.50	5259.92	-42629.10	3.540
10	P	9	SND	17857.10	2080.34	-14186.50	17857.10	5610.13	-40431.10	2.773
11	P	9	SND	-212.90	4118.77	-62455.30	-212.90	7326.47	-117305.00	1.878
12	P	9	SND	28549.00	3300.63	-19039.80	28549.00	6303.12	-35717.10	1.836
13	P	9	SND	74605.40	2074.73	-2021.09	74605.40	3209.53	-3285.33	1.559
14	P	9	SND	34156.70	3897.45	-21435.00	34156.70	6137.11	-34274.70	1.568
15	P	9	SND	475.12	6897.27	-87880.90	475.12	9087.10	-111555.00	1.270
16	T	9	SND	39274.70	5587.26	-30324.30	39274.70	5981.88	-32964.20	1.083

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-16981.70	-126.42	441.16	4.11	58.47
1	P	20	SLE Q	-15489.70	-133.37	520.39	3.92	55.33
2	P	18	SLE R	-11769.40	-121.64	865.65	5.95	79.83
2	P	20	SLE Q	-10658.60	-122.85	823.18	5.54	73.94
3	P	18	SLE R	-4942.42	-0.43	-96.82	3.36	48.61
3	P	20	SLE Q	-4538.77	-2.78	-82.48	3.08	44.43
4	P	18	SLE R	-11580.70	-84.90	411.78	4.84	66.89
4	P	20	SLE Q	-10492.40	-86.02	401.61	4.50	61.79
5	P	18	SLE R	-16293.70	-64.79	-384.04	3.67	53.35
5	P	20	SLE Q	-14801.70	-66.53	-312.03	3.34	48.39
6	P	18	SLE R	-11459.50	-38.43	-88.79	3.61	52.64
6	P	20	SLE Q	-10400.30	-38.06	-71.58	3.31	48.17
7	P	18	SLE R	-4315.76	-2.10	-5.76	2.45	36.54
7	P	20	SLE Q	-3878.15	-1.77	-2.84	2.19	32.68
8	P	18	SLE R	-11519.30	-21.59	-206.43	3.65	53.76
8	P	20	SLE Q	-10465.00	-20.20	-186.93	3.32	48.86
9	P	18	SLE R	-11606.00	-6.16	-293.29	3.72	55.18
9	P	20	SLE Q	-10554.20	-3.69	-274.10	3.39	50.23
10	P	18	SLE R	-11692.60	8.97	-374.74	3.90	57.63
10	P	20	SLE Q	-10643.40	12.54	-356.26	3.61	53.08
11	P	18	SLE R	-15147.10	37.95	-1759.36	4.37	63.45
11	P	20	SLE Q	-13655.10	44.87	-1699.37	4.07	58.84
12	P	18	SLE R	-11740.30	42.49	-629.60	4.58	65.91
12	P	20	SLE Q	-10708.30	48.08	-603.90	4.29	61.40
13	P	18	SLE R	-3108.03	14.56	-66.02	2.33	32.68
13	P	20	SLE Q	-2622.78	18.59	-62.68	2.09	28.88
14	P	18	SLE R	-11580.40	64.48	-902.36	5.15	73.02
14	P	20	SLE Q	-10573.70	70.85	-859.57	4.84	68.27
15	P	18	SLE R	-14459.10	99.58	-2584.51	5.12	72.73
15	P	20	SLE Q	-12967.10	111.71	-2531.75	4.85	68.41
16	T	18	SLE R	-10596.50	168.75	-2541.78	8.79	118.58
16	T	20	SLE Q	-9667.78	175.83	-2378.06	8.34	111.83

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	35035.60	2.50	42927.80	106498.00	1.225
2	P	9	21645.90	2.50	28176.00	70115.00	1.302
3	P	1	10209.20	2.50	13424.20	33207.20	1.315
4	P	9	25178.80	2.50	28176.00	70234.50	1.119
5	P	9	35035.60	2.50	42927.80	106395.00	1.225
6	P	9	26137.90	2.50	28176.00	69698.50	1.078
7	P	9	9011.02	2.50	13424.20	33207.20	1.490
8	P	9	26024.60	2.50	28176.00	69698.50	1.083
9	P	9	25968.90	2.50	28176.00	69698.50	1.085
10	P	9	25953.40	2.50	28176.00	69698.50	1.086
11	P	9	35035.60	2.50	42927.80	106222.00	1.225
12	P	9	25417.30	2.50	28176.00	69698.50	1.109
13	P	1	12466.10	2.50	13424.20	33207.20	1.077

Relazione di calcolo

14	P	9	23045.40	2.50	28176.00	69698.50	1.223
15	P	9	35035.60	2.50	42927.80	106190.00	1.225
16	T	9	9169.38	2.50	28176.00	69698.50	3.073

Numero del nucleo n. 337

Nodi: 2011 -30750 -30749 -30748 -30747 -14532 2020

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	TP	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-33091.80	1582.33	-1172.11	-33091.80	24777.10	-18344.20	15.656
2	P	17	SLU	-32704.20	1414.30	-1186.31	-32704.20	24701.80	-20963.70	17.551
3	P	17	SLU	-32316.60	1246.26	-1200.50	-32316.60	24659.20	-24012.50	19.890
4	P	17	SLU	-31929.10	1078.23	-1214.70	-31929.10	24565.70	-27520.70	22.712
5	P	17	SLU	-31541.50	910.20	-1228.90	-31541.50	24405.70	-32878.80	26.776
6	P	17	SLU	-31153.90	742.17	-1243.11	-941529.00	24220.40	-40418.20	30.222
7	P	17	SLU	-27054.90	-1309.79	1526.69	-27054.90	-24158.60	28348.90	18.516
8	P	17	SLU	-26667.30	-1233.54	1510.78	-26667.30	-24117.40	29089.70	19.374
9	P	17	SLU	-26279.80	-1157.30	1494.88	-26279.80	-24019.40	31347.50	20.890
10	P	17	SLU	-25892.20	-1081.05	1478.98	-25892.20	-23940.00	32185.90	21.896
11	P	17	SLU	-9136.82	600.35	46.66	-9136.82	22425.40	1732.57	37.352

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	-5898.93	4193.71	9761.74	-5898.93	14179.50	32602.90	3.346
2	P	1	SND	-6677.71	3016.55	-6735.78	-6677.71	14294.80	-31390.10	4.673
3	P	5	SND	-5302.68	1865.96	-7730.65	-5302.68	12841.10	-53752.00	6.949
4	P	5	SND	-5004.56	1056.54	-11882.30	-5004.56	6949.00	-72472.50	6.103
5	P	13	SND	-4473.79	1896.55	-16857.40	-4473.79	7679.29	-69978.50	4.150
6	P	13	SND	-4175.66	2822.31	-22230.60	-4175.66	8559.84	-67127.20	3.020
7	P	13	SND	-845.46	-2295.33	28656.70	-845.46	-5615.59	74272.70	2.591
8	P	13	SND	-547.34	-2219.51	34415.30	-547.34	-4663.91	76679.00	2.228
9	P	5	SND	-1009.96	-4198.88	38673.40	-1009.96	-7580.31	68706.90	1.777
10	T	5	SND	-413.71	-7692.56	-49958.00	-413.71	-9446.14	-62590.20	1.252
11	P	13	SND	5606.31	3773.21	13083.70	5606.31	12619.00	42954.80	3.288

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cm²>	σf <daN/cm²>
1	P	18	SLE R	-24545.70	1124.24	-794.92	11.40	143.63
1	P	20	SLE Q	-22868.30	1080.72	-722.50	10.78	135.34
2	P	18	SLE R	-24247.60	998.28	-799.54	10.71	136.37
2	P	20	SLE Q	-22570.20	964.43	-744.23	10.14	128.69
3	P	18	SLE R	-23949.50	872.32	-804.16	10.04	129.33
3	P	20	SLE Q	-22272.10	848.15	-765.95	9.53	122.28
4	P	18	SLE R	-23651.40	746.36	-808.78	9.37	122.30
4	P	20	SLE Q	-21974.00	731.87	-787.67	8.92	115.93
5	P	18	SLE R	-23353.20	620.40	-813.40	8.70	115.26
5	P	20	SLE Q	-21675.80	615.58	-809.40	8.32	109.58
6	P	18	SLE R	-23055.10	494.44	-818.02	8.04	108.23
6	P	20	SLE Q	-21377.70	499.30	-831.13	7.71	103.22
7	P	18	SLE R	-20243.00	-905.75	1063.13	9.66	122.52
7	P	20	SLE Q	-18563.10	-896.39	1034.94	9.27	116.73
8	P	18	SLE R	-19944.90	-862.26	1057.39	9.37	119.25
8	P	20	SLE Q	-18265.00	-845.66	1012.13	8.92	112.76
9	P	18	SLE R	-19646.80	-818.77	1051.64	9.08	116.02
9	P	20	SLE Q	-17966.80	-794.92	989.32	8.57	108.85
10	P	18	SLE R	-19348.70	-775.27	1045.90	8.80	112.81
10	P	20	SLE Q	-17668.70	-744.18	966.52	8.23	105.00
11	P	18	SLE R	-7038.66	438.95	27.09	3.78	44.75
11	P	20	SLE Q	-6509.89	426.89	171.27	3.78	44.72

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	18569.20	2.50	43045.80	107372.00	2.318
2	P	5	18569.20	2.50	43045.80	107327.00	2.318
3	P	5	18569.20	2.50	43045.80	107282.00	2.318
4	P	5	18569.20	2.50	43045.80	107237.00	2.318
5	P	5	18569.20	2.50	43045.80	107192.00	2.318

Relazione di calcolo

6P	5	18569.20	2.50	43045.80	107147.00	2.318
7P	5	18605.50	2.50	43045.80	106724.00	2.314
8P	5	18605.50	2.50	43045.80	106679.00	2.314
9P	5	18605.50	2.50	43045.80	106634.00	2.314
10P	5	18605.50	2.50	43045.80	106589.00	2.314

Numero del nucleo n. 338

Nodi: -34425 2048 -21795 -21794 -21793 -21792 2062

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	TP	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.50	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-25213.60	-36.21	-3333.16	-1069340.00	-3995.90	-204444.00	42.411
2P	17	SLU		-19341.90	-67.88	-2912.46	-19341.90	-2508.86	-110487.00	37.935
3P	17	SLU		-6285.89	6.66	43.84	-244961.00	1550.69	9942.52	38.970
4P	17	SLU		-18412.90	-52.59	-1682.68	-788973.00	-3920.58	-108817.00	42.849
5P	17	SLU		-24441.40	-50.79	-1432.27	-1069340.00	-8260.28	-196365.00	43.751
6P	17	SLU		-18252.20	-47.83	-482.09	-788973.00	-9363.73	-99528.30	43.226
7P	17	SLU		-5358.70	-10.42	-47.62	-244961.00	-2098.21	-9360.37	45.713
8P	17	SLU		-18568.00	-50.08	-176.87	-788973.00	-19895.70	-69649.30	42.491
9P	17	SLU		-18911.30	-53.16	95.54	-788973.00	-24235.10	43848.40	41.720
10P	17	SLU		-19271.50	-56.40	356.15	-788973.00	-12617.10	80275.10	40.940
11P	17	SLU		-23154.50	-75.09	1735.81	-1069340.00	-8181.92	196104.00	46.183
12P	17	SLU		-19729.20	-61.50	1029.50	-788973.00	-5823.24	94240.50	39.990
13P	17	SLU		-3122.01	-23.09	45.63	-244961.00	-4280.68	8431.12	78.463
14P	17	SLU		-19517.80	-61.71	1639.53	-788973.00	-3959.52	97047.20	40.423
15P	17	SLU		-22382.30	-89.66	3636.62	-1069340.00	-3923.03	203886.00	47.776
16T	17	SLU		-16886.90	-55.94	5304.29	-16886.90	-1326.27	99131.10	18.689

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	1	SND		-367.56	-1885.87	-13758.50	-367.56	-13710.50	-98124.40	7.134
2P	9	SND		966.74	-1062.71	-6150.07	966.74	-9721.37	-56923.80	9.325
3P	9	SND		-15235.00	-164.92	663.72	-138748.00	-1828.03	7391.56	9.107
4P	9	SND		-4692.63	-642.24	-4867.16	-4692.63	-8063.58	-61532.60	12.641
5P	9	SND		-4393.58	-315.56	-14588.00	-4393.58	-3749.95	-126103.00	8.646
6P	1	SND		-7607.94	-302.40	7571.01	-7607.94	-2596.81	62151.10	8.210
7P	9	SND		-32134.10	-194.25	108.47	-138748.00	-5945.29	3359.09	4.318
8P	1	SND		-4555.65	-666.59	10896.70	-4555.65	-3812.52	59087.80	5.424
9P	1	SND		-913.53	-1049.46	14256.00	-913.53	-3782.86	58142.80	4.076
10P	1	SND		2865.82	-1435.41	17709.90	2865.82	-4440.30	55805.80	3.131
11P	1	SND		1216.32	-2336.93	49199.60	1216.32	-5156.75	120158.00	2.442
12P	1	SND		11092.70	-2212.70	24502.10	11092.70	-4336.02	53586.20	2.156
13P	9	SND		-60608.80	-776.15	173.56	-138748.00	-6832.95	1554.16	2.289
14P	1	SND		16086.80	-2608.90	27606.80	16086.80	-5025.71	50818.60	1.815
15P	1	SND		1810.30	-3844.35	71751.70	1810.30	-6198.39	117297.00	1.635
16T	1	SND		34440.80	3880.09	30055.10	34440.80	5555.94	44337.90	1.446

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σc <daN/cmq>	σt <daN/cmq>
1P	18	SLE	R	-18883.40	-37.72	-2373.88	6.11	88.50
1P	20	SLE	Q	-17122.50	-53.45	-2183.37	5.65	81.46
2P	18	SLE	R	-14469.40	-57.86	-2056.31	8.34	105.07
2P	20	SLE	Q	-13085.50	-66.71	-1872.13	7.65	96.11
3P	18	SLE	R	-4669.45	3.68	29.99	4.97	69.19
3P	20	SLE	Q	-4235.38	1.23	26.26	4.45	62.20
4P	18	SLE	R	-13818.00	-44.74	-1187.75	6.53	85.25
4P	20	SLE	Q	-12491.20	-51.55	-1084.17	5.99	77.90
5P	18	SLE	R	-18289.40	-42.75	-994.59	4.75	69.34
5P	20	SLE	Q	-16528.60	-48.77	-908.06	4.35	63.21
6P	18	SLE	R	-13701.80	-38.01	-330.38	4.94	68.36
6P	20	SLE	Q	-12372.00	-40.03	-300.35	4.50	62.09
7P	18	SLE	R	-3971.36	-7.93	-33.82	4.05	57.98
7P	20	SLE	Q	-3568.31	-7.93	-31.03	3.67	52.37
8P	18	SLE	R	-13922.10	-38.17	-109.11	4.62	65.21
8P	20	SLE	Q	-12564.30	-37.72	-95.94	4.19	58.99
9P	18	SLE	R	-14162.80	-38.95	88.52	4.35	62.62
9P	20	SLE	Q	-12774.90	-36.01	87.08	3.92	56.40
10P	18	SLE	R	-14415.00	-39.86	277.89	4.13	60.59

Relazione di calcolo

10	P	20	SLE Q	-12995.90	-34.44	262.65	3.73	54.81
11	P	18	SLE R	-17299.50	-51.13	1304.18	4.88	70.70
11	P	20	SLE Q	-15538.60	-40.97	1217.41	4.40	63.88
12	P	18	SLE R	-14725.30	-40.60	768.93	5.01	72.67
12	P	20	SLE Q	-13262.50	-30.28	715.35	4.51	65.59
13	P	18	SLE R	-2351.32	-15.31	34.65	3.14	40.71
13	P	20	SLE Q	-2043.33	-11.38	31.36	2.71	35.24
14	P	18	SLE R	-14552.30	-39.16	1218.23	5.69	81.94
14	P	20	SLE Q	-13099.40	-26.47	1125.73	5.12	73.90
15	P	18	SLE R	-16705.60	-56.15	2683.42	6.04	86.75
15	P	20	SLE Q	-14944.70	-36.29	2492.66	5.43	78.18
16	T	18	SLE R	-12549.50	-29.36	3935.56	10.57	146.61
16	T	20	SLE Q	-11269.30	-8.98	3588.64	9.49	132.18

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	30938.70	2.50	36879.60	91283.50	1.192
2	P	1	21546.50	2.50	28176.00	69698.50	1.308
3	P	9	5345.43	2.50	7375.92	18245.70	1.380
4	P	1	25927.20	2.50	28176.00	70281.90	1.087
5	P	1	30938.70	2.50	36879.60	91228.50	1.192
6	P	1	26944.40	2.50	28176.00	70826.00	1.046
7	P	1	4141.15	2.50	7375.92	18245.70	1.781
8	P	1	26797.60	2.50	28176.00	70373.60	1.051
9	P	1	26960.50	2.50	28176.00	69833.90	1.045
10	P	1	26796.30	2.50	28176.00	69698.50	1.051
11	P	1	30938.70	2.50	36879.60	91228.50	1.192
12	P	1	26594.40	2.50	28176.00	69698.50	1.059
13	P	9	5596.78	2.50	7375.92	18245.70	1.318
14	P	1	25687.80	2.50	28176.00	69698.50	1.097
15	P	1	30938.70	2.50	36879.60	91228.50	1.192
16	P	1	8933.82	2.50	28176.00	69698.50	3.154

Numero del nucleo n. 339

Nodi: -35801 -29336 -31492 -31491 -31490 -31489 -31488 2028

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	TP	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-31096.70	-36.68	-769.36	-945887.00	-6066.29	-118941.00	30.418
2	P	17	SLU	-30654.90	-51.22	-642.05	-945887.00	-8642.88	-112483.00	30.856
3	P	17	SLU	-30213.10	-65.77	-514.75	-945887.00	-12741.40	-96697.50	31.307
4	P	17	SLU	-29771.30	-80.31	-387.44	-945887.00	-15355.90	-73130.60	31.772
5	P	17	SLU	-29329.50	-94.85	-260.13	-945887.00	-16302.60	-43879.80	32.250
6	P	17	SLU	-28887.60	-109.39	-132.83	-945887.00	-16702.50	-20579.70	32.744
7	P	17	SLU	-28445.80	-123.94	-5.52	-945887.00	-16707.70	-699.56	33.252
8	P	17	SLU	-28004.00	-138.48	121.78	-945887.00	-16599.90	14517.30	33.777
9	P	17	SLU	-27562.20	-153.02	249.09	-945887.00	-16505.00	26876.20	34.318
10	P	17	SLU	-27120.40	-167.57	376.40	-945887.00	-16256.90	36824.70	34.877
11	P	17	SLU	-12255.90	268.91	-321.56	-12255.90	15175.60	-18005.00	56.175

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	-1875.88	-1947.10	14706.30	-1875.88	-7011.74	51906.30	3.531
2	P	13	SND	-1536.02	-1518.58	11744.60	-1536.02	-6993.49	51770.60	4.411
3	P	13	SND	-1196.16	-1123.40	12067.20	-1196.16	-5139.36	60453.50	5.006
4	P	5	SND	-1663.64	-827.83	-15707.00	-1663.64	-3851.56	-65080.90	4.145
5	P	5	SND	-1323.79	-798.80	-21432.20	-1323.79	-2822.00	-67353.90	3.143
6	P	5	SND	-983.92	-1013.80	-27868.50	-983.92	-2819.67	-67118.10	2.409
7	P	13	SND	163.29	1238.10	34669.20	163.29	2816.03	66410.40	1.916
8	P	13	SND	503.15	1645.69	41515.70	503.15	2813.31	66174.10	1.594
9	P	13	SND	843.01	2079.84	48451.40	843.01	2813.96	65996.80	1.362
10	T	13	SND	1522.74	2981.40	62469.50	1522.74	2810.78	65592.50	1.050
11	P	13	SND	-2991.02	4577.29	-15887.30	-2991.02	7266.47	-25141.80	1.583

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm ² >	σ _f <daN/cm ² >
1	P	18	SLE R	-22950.40	-3.91	-520.72	5.15	76.87

Relazione di calcolo

1	P	20	SLE Q	-21817.50	-11.68	203.30	4.73	70.53
2	P	18	SLE R	-22610.50	-18.46	-437.17	5.09	75.68
2	P	20	SLE Q	-21477.60	-21.46	173.82	4.68	69.65
3	P	18	SLE R	-22270.70	-33.01	-353.62	5.03	74.49
3	P	20	SLE Q	-21137.80	-31.24	144.33	4.64	68.77
4	P	18	SLE R	-21930.80	-47.56	-270.07	4.97	73.29
4	P	20	SLE Q	-20797.90	-41.02	114.85	4.59	67.89
5	P	18	SLE R	-21590.90	-62.11	-186.52	4.91	72.10
5	P	20	SLE Q	-20458.00	-50.80	85.37	4.55	67.01
6	P	18	SLE R	-21251.10	-76.66	-102.97	4.85	70.90
6	P	20	SLE Q	-20118.20	-60.58	55.88	4.51	66.13
7	P	18	SLE R	-20911.20	-91.21	-19.42	4.79	69.71
7	P	20	SLE Q	-19778.30	-70.36	26.40	4.46	65.25
8	P	18	SLE R	-20571.30	-105.76	64.13	4.82	69.81
8	P	20	SLE Q	-19438.40	-80.14	-3.09	4.42	64.43
9	P	18	SLE R	-20231.50	-120.31	147.68	4.88	70.29
9	P	20	SLE Q	-19098.60	-89.92	-32.57	4.42	64.14
10	T	18	SLE R	-19551.80	-149.40	314.77	5.00	71.26
10	P	20	SLE Q	-18758.70	-99.70	-62.06	4.42	63.85
11	P	18	SLE R	-9219.96	206.31	-239.33	3.08	40.90
11	P	20	SLE Q	-8891.39	170.20	-229.85	2.83	38.06

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	22664.50	2.50	49241.60	122215.00	2.173
2	P	5	22664.50	2.50	49241.60	122163.00	2.173
3	P	5	22664.50	2.50	49241.60	122112.00	2.173
4	P	5	22664.50	2.50	49241.60	122060.00	2.173
5	P	5	22664.50	2.50	49241.60	122009.00	2.173
6	P	5	22664.50	2.50	49241.60	121957.00	2.173
7	P	5	22664.50	2.50	49241.60	121906.00	2.173
8	P	5	22664.50	2.50	49241.60	121854.00	2.173
9	P	5	22664.50	2.50	49241.60	121808.00	2.173
10	T	5	22664.50	2.50	49241.60	121808.00	2.173

Numero del nucleo n. 340

Nodi: 2078 -25068 -25067 -24941 -25042 2080

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	TP	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-40600.80	-3167.94	-3047.96	-40600.80	-26837.50	-25705.50	8.453
2	P	17	SLU	-40382.10	-2769.00	-2763.78	-40382.10	-26773.40	-26532.10	9.635
3	P	17	SLU	-40163.50	-2370.06	-2479.62	-40163.50	-26678.10	-28304.30	11.339
4	P	17	SLU	-39944.90	-1971.12	-2195.45	-39944.90	-26621.60	-29146.10	13.379
5	P	17	SLU	-39726.30	-1572.19	-1911.30	-39726.30	-26420.00	-32312.70	16.865
6	P	17	SLU	-39507.60	-1173.24	-1627.13	-787817.00	-26101.50	-36646.90	19.941
7	P	17	SLU	-39289.00	-774.31	-1342.98	-787817.00	-25146.30	-44317.20	20.052
8	P	17	SLU	-39070.40	-375.36	-1058.81	-787817.00	-21878.80	-60540.00	20.164
9	P	17	SLU	-38851.80	23.57	-774.66	-787817.00	3296.61	-115350.00	20.277
10	P	17	SLU	-38633.10	422.52	-490.50	-787817.00	26443.60	-30788.50	20.392
11	P	17	SLU	-38414.50	821.45	-206.35	-787817.00	27084.20	-6959.91	20.508
12	P	17	SLU	-38195.90	1220.39	77.81	-787817.00	26882.50	1675.27	20.626
13	T	17	SLU	-37758.60	2018.27	646.12	-37758.60	26999.40	8852.26	13.408
14	P	17	SLU	-27714.10	-1095.43	-2292.23	-27714.10	-23440.90	-48050.90	21.044

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	9	SND	-13653.40	-4476.86	-12748.10	-13653.40	-15336.90	-42890.20	3.371
2	P	13	SND	-13404.50	-3739.55	-8343.09	-13404.50	-17237.40	-38110.80	4.575
3	P	13	SND	-13236.30	-2912.31	-5373.76	-13236.30	-18286.60	-34229.70	6.349
4	P	9	SND	-13148.90	-2049.97	-7431.30	-13148.90	-13050.50	-47476.00	6.387
5	P	9	SND	-12980.70	-1289.24	-11961.20	-12980.70	-6654.78	-61204.60	5.117
6	P	9	SND	-12812.50	-995.37	-16846.30	-12812.50	-4327.73	-66244.50	3.934
7	P	9	SND	-12644.40	-1173.59	-21823.60	-12644.40	-3623.56	-67605.60	3.098
8	P	9	SND	-12476.20	-1394.48	-26837.70	-12476.20	-3039.09	-68778.60	2.562
9	P	9	SND	-12308.00	2082.63	-31869.70	-12308.00	4323.11	-66105.70	2.074
10	P	9	SND	-12139.80	2895.89	-36912.00	-12139.80	5107.07	-64350.40	1.743
11	P	9	SND	-11971.70	3710.32	-41960.60	-11971.70	6044.16	-62204.60	1.484
12	P	9	SND	-11803.50	4525.43	-47013.60	-11803.50	6043.04	-62177.50	1.323

Relazione di calcolo

13	T	9	SND	-11467.20	6156.67	-57127.40	-11467.20	6629.77	-60819.10	1.065
14	P	9	SND	-5188.46	-3410.47	-56622.80	-5188.46	-4157.94	-64327.70	1.136

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-30260.60	-2228.62	-2188.89	25.81	306.50
1	P	20	SLE Q	-27852.80	-1948.07	-1885.63	22.69	271.21
2	P	18	SLE R	-30092.40	-1945.23	-1977.43	23.14	279.67
2	P	20	SLE Q	-27684.60	-1701.06	-1700.55	20.39	248.01
3	P	18	SLE R	-29924.20	-1661.84	-1765.98	20.60	253.65
3	P	20	SLE Q	-27516.40	-1454.07	-1515.47	18.23	225.64
4	P	18	SLE R	-29756.10	-1378.45	-1554.53	18.26	229.17
4	P	20	SLE Q	-27348.20	-1207.07	-1330.39	16.25	204.76
5	P	18	SLE R	-29587.90	-1095.06	-1343.08	16.15	206.86
5	P	20	SLE Q	-27180.10	-960.07	-1145.32	14.44	185.62
6	P	18	SLE R	-29419.70	-811.67	-1131.63	14.14	185.65
6	P	20	SLE Q	-27011.90	-713.07	-960.25	12.68	167.05
7	P	18	SLE R	-29251.60	-528.28	-920.19	12.13	164.46
7	P	20	SLE Q	-26843.70	-466.07	-775.18	10.93	148.48
8	P	18	SLE R	-29083.40	-244.88	-708.74	10.12	143.27
8	P	20	SLE Q	-26675.50	-219.07	-590.10	9.17	129.91
9	P	18	SLE R	-28915.20	38.50	-497.30	8.57	126.53
9	P	20	SLE Q	-26507.40	27.93	-405.03	7.74	114.57
10	P	18	SLE R	-28747.00	321.90	-285.85	9.89	138.08
10	P	20	SLE Q	-26339.20	274.93	-219.96	8.88	124.54
11	P	18	SLE R	-28578.90	605.28	-74.41	11.21	149.63
11	P	20	SLE Q	-26171.00	521.92	-34.89	10.02	134.50
12	P	18	SLE R	-28410.70	888.68	137.04	12.91	166.56
12	P	20	SLE Q	-26002.80	768.93	150.18	11.59	150.37
13	T	18	SLE R	-28074.30	1455.46	559.93	16.86	207.30
13	T	20	SLE Q	-25666.50	1262.93	520.32	14.98	185.38
14	P	18	SLE R	-20685.60	-864.69	-1650.62	13.06	164.81
14	P	20	SLE Q	-18785.30	-740.62	-1416.86	11.44	145.09

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	22229.50	2.50	31185.40	79146.90	1.403
2	P	1	22229.50	2.50	31185.40	79121.90	1.403
3	P	1	22229.50	2.50	31185.40	79096.80	1.403
4	P	1	22229.50	2.50	31185.40	79071.70	1.403
5	P	1	22229.50	2.50	31185.40	79046.60	1.403
6	P	1	22229.50	2.50	31185.40	79021.60	1.403
7	P	1	22229.50	2.50	31185.40	78996.50	1.403
8	P	1	22229.50	2.50	31185.40	78971.40	1.403
9	P	1	22229.50	2.50	31185.40	78946.30	1.403
10	P	1	22229.50	2.50	31185.40	78921.30	1.403
11	P	1	22229.50	2.50	31185.40	78896.20	1.403
12	P	1	22229.50	2.50	31185.40	78871.10	1.403
13	P	1	22229.50	2.50	31185.40	78846.00	1.403

Numero del nucleo n. 341

Nodi: -35838 -29598 -30994 -30993 -30992 -30991 -30990 2027

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-36933.60	191.02	-60.16	-945887.00	17307.20	-5400.54	25.610
2	P	17	SLU	-36491.80	180.98	-83.52	-945887.00	17363.60	-8191.70	25.921
3	P	17	SLU	-36050.00	170.93	-106.88	-945887.00	17413.10	-10894.10	26.238
4	P	17	SLU	-35608.10	160.88	-130.25	-945887.00	17286.10	-13992.30	26.564
5	P	17	SLU	-35166.30	150.84	-153.61	-945887.00	17290.00	-17353.10	26.898
6	P	17	SLU	-34724.50	140.79	-176.97	-945887.00	17183.80	-21518.10	27.240
7	P	17	SLU	-34282.70	130.75	-200.34	-945887.00	17118.70	-26608.40	27.591
8	P	17	SLU	-33840.80	120.70	-223.70	-945887.00	16982.00	-32071.30	27.951
9	P	17	SLU	-33399.00	110.66	-247.06	-945887.00	16799.10	-38257.70	28.321
10	P	17	SLU	-32957.20	100.61	-270.43	-945887.00	16638.10	-43751.80	28.701
11	P	17	SLU	-17562.00	-280.69	70.74	-945887.00	-15470.10	3823.11	53.860

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M' ydy <daNm>	M' ydz <daNm>	Sic.
1	P	5	SND	-15178.30	1962.13	15244.20	-15178.30	7750.26	57815.40	3.795
2	P	5	SND	-14838.40	1453.03	-9667.08	-14838.40	8428.57	-52957.60	5.485
3	P	13	SND	-13731.20	929.73	8896.72	-13731.20	6454.77	63337.40	7.117
4	P	13	SND	-13391.30	637.01	13417.80	-13391.30	3996.82	71642.40	5.342
5	P	13	SND	-13051.40	668.34	19953.70	-13051.40	2855.29	74100.30	3.714
6	P	5	SND	-13479.00	-868.58	-27245.10	-13479.00	-2839.17	-74334.30	2.729
7	P	13	SND	-12371.70	1502.96	34443.20	-12371.70	2850.10	73704.50	2.139
8	P	13	SND	-12031.80	1992.07	41909.50	-12031.80	3983.96	70911.90	1.693
9	P	5	SND	-12459.40	-2378.33	-49755.70	-12459.40	-3966.75	-71137.80	1.430
10	T	5	SND	-11779.60	-3424.91	-65007.70	-11779.60	-3958.66	-70744.60	1.088
11	P	5	SND	-6204.20	-2697.63	-27711.30	-6204.20	-6132.60	-59862.70	2.161

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_s <daN/cm ² >
1	P	18	SLE R	-27429.30	122.00	-32.79	6.30	91.64
1	P	20	SLE Q	-25540.20	133.25	53.67	5.98	86.51
2	P	18	SLE R	-27089.50	116.56	-52.05	6.22	90.52
2	P	20	SLE Q	-25200.30	123.60	26.90	5.84	84.72
3	P	18	SLE R	-26749.60	111.12	-71.31	6.14	89.39
3	P	20	SLE Q	-24860.50	113.95	0.14	5.71	82.93
4	P	18	SLE R	-26409.70	105.68	-90.58	6.05	88.26
4	P	20	SLE Q	-24520.60	104.30	-26.63	5.61	81.67
5	P	18	SLE R	-26069.90	100.24	-109.84	5.97	87.13
5	P	20	SLE Q	-24180.70	94.65	-53.40	5.51	80.41
6	P	18	SLE R	-25730.00	94.80	-129.10	5.89	86.01
6	P	20	SLE Q	-23840.90	85.00	-80.16	5.41	79.16
7	P	18	SLE R	-25390.10	89.36	-148.37	5.80	84.88
7	P	20	SLE Q	-23501.00	75.36	-106.93	5.32	77.90
8	P	18	SLE R	-25050.30	83.92	-167.63	5.72	83.75
8	P	20	SLE Q	-23161.20	65.71	-133.70	5.22	76.65
9	P	18	SLE R	-24710.40	78.48	-186.90	5.64	82.62
9	P	20	SLE Q	-22821.30	56.06	-160.47	5.12	75.39
10	P	18	SLE R	-24370.60	73.04	-206.16	5.56	81.49
10	T	18	SLE R	-24030.70	67.60	-225.43	5.47	80.37
10	P	20	SLE Q	-22481.40	46.41	-187.23	5.02	74.13
11	P	18	SLE R	-13147.50	-195.81	44.82	3.70	50.68
11	P	20	SLE Q	-12438.80	-152.85	195.26	3.46	47.94

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	24254.90	2.50	49241.60	124107.00	2.030
2	P	5	24254.90	2.50	49241.60	124056.00	2.030
3	P	5	24254.90	2.50	49241.60	124004.00	2.030
4	P	5	24254.90	2.50	49241.60	123953.00	2.030
5	P	5	24254.90	2.50	49241.60	123901.00	2.030
6	P	5	24254.90	2.50	49241.60	123850.00	2.030
7	P	5	24254.90	2.50	49241.60	123798.00	2.030
8	P	5	24254.90	2.50	49241.60	123747.00	2.030
9	P	5	24254.90	2.50	49241.60	123695.00	2.030
10	T	5	24254.90	2.50	49241.60	123592.00	2.030

Numero del nucleo n. 342

Nodi: -35042 -33141 -33275 -33274 2029 -33273 -33272 -33271 -33139 -35078

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-24281.40	1621.98	489.57	-24281.40	45388.10	13378.90	27.929
2	P	17	SLU	-23766.60	1325.23	143.37	-23766.60	45248.60	4880.37	34.143
3	P	17	SLU	-23251.80	1028.48	-202.83	-23251.80	45163.90	-8533.04	43.846
4	P	17	SLU	-22736.90	731.73	-549.03	-22736.90	45348.20	-34018.10	61.969
5	P	17	SLU	-22222.10	434.98	-895.23	-1428870.00	44537.50	-91906.70	64.299
6	P	17	SLU	-21707.30	138.23	-1241.43	-1428870.00	27619.30	-267532.00	65.824
7	P	17	SLU	-21192.50	-158.52	-1587.64	-1428870.00	-27608.40	-267413.00	67.423
8	P	17	SLU	-20677.70	-455.27	-1933.84	-1428870.00	-40474.30	-167909.00	69.102
9	P	17	SLU	-20162.90	-752.02	-2280.04	-20162.90	-43329.30	-128398.00	56.443
10	T	17	SLU	-19133.30	-1345.52	-2972.45	-19133.30	-44198.30	-98209.00	33.007

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M' ydy <daNm>	M' ydz <daNm>	Sic.
1	P	1	SND	-12312.10	7864.57	38476.20	-12312.10	26559.70	135296.00	3.511
2	P	1	SND	-11916.10	5893.05	46790.00	-11916.10	19138.10	160258.00	3.422
3	P	9	SND	-12205.00	3594.07	-57228.20	-12205.00	12381.60	-186256.00	3.255
4	P	1	SND	-11124.10	1954.61	68254.00	-11124.10	6049.09	209514.00	3.070
5	P	1	SND	-10728.00	558.73	80078.40	-10728.00	2952.52	220911.00	2.759
6	P	1	SND	-10332.00	1911.18	92250.60	-10332.00	6043.00	209114.00	2.267
7	P	1	SND	-9936.04	-3973.56	104645.00	-9936.04	-7432.10	203694.00	1.946
8	P	9	SND	-10225.00	5390.66	-119792.00	-10225.00	9383.06	-196486.00	1.640
9	P	1	SND	-9144.01	-7916.34	129835.00	-9144.01	-12315.60	184804.00	1.424
10	T	1	SND	-8352.00	-11860.10	155337.00	-8352.00	-14414.30	176332.00	1.136

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-18233.00	1175.39	364.07	6.79	80.87
1	P	20	SLE Q	-16421.70	1044.95	366.94	6.08	72.61
2	P	18	SLE R	-17837.00	961.37	109.62	5.80	70.58
2	P	20	SLE Q	-16025.70	856.09	128.50	5.20	63.35
3	P	18	SLE R	-17441.00	747.36	-144.82	5.03	62.85
3	P	20	SLE Q	-15629.70	667.24	-109.94	4.49	56.12
4	P	18	SLE R	-17045.00	533.34	-399.27	4.39	56.75
4	P	20	SLE Q	-15233.70	478.39	-348.38	3.92	50.72
5	P	18	SLE R	-16649.00	319.33	-653.72	3.74	50.65
5	P	20	SLE Q	-14837.70	289.54	-586.83	3.36	45.32
6	P	18	SLE R	-16252.90	105.32	-908.16	3.10	44.55
6	P	20	SLE Q	-14441.70	100.69	-825.27	2.79	39.92
7	P	18	SLE R	-15856.90	-108.70	-1162.61	3.17	45.38
7	P	20	SLE Q	-14045.60	-88.17	-1063.71	2.79	40.15
8	P	18	SLE R	-15460.90	-322.71	-1417.06	3.92	52.93
8	P	20	SLE Q	-13649.60	-277.02	-1302.16	3.45	46.80
9	P	18	SLE R	-15064.90	-536.73	-1671.50	4.66	60.51
9	P	20	SLE Q	-13253.60	-465.87	-1540.60	4.11	53.48
10	T	18	SLE R	-14272.90	-964.75	-2180.40	6.51	79.17
10	T	20	SLE Q	-12461.60	-843.58	-2017.49	5.76	70.05

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	42551.40	2.50	57517.40	144253.00	1.352
2	P	9	42551.40	2.50	57517.40	144193.00	1.352
3	P	9	42551.40	2.50	57517.40	144133.00	1.352
4	P	9	42551.40	2.50	57517.40	144073.00	1.352
5	P	9	42551.40	2.50	57517.40	144013.00	1.352
6	P	9	42551.40	2.50	57517.40	143953.00	1.352
7	P	9	42551.40	2.50	57517.40	143892.00	1.352
8	P	9	42551.40	2.50	57517.40	143832.00	1.352
9	P	9	42551.40	2.50	57517.40	143772.00	1.352
10	P	9	42551.40	2.50	57517.40	143712.00	1.352

Numero del nucleo n. 343

Nodi: 2075 -22015 -22014 -22013 2077

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-19353.30	-1190.07	2074.07	-19353.30	-21687.90	37636.10	18.165
2	P	17	SLU	-19154.50	-1062.67	1776.32	-19154.50	-21875.00	36495.60	20.556
3	P	17	SLU	-18955.80	-935.27	1478.58	-18955.80	-22129.10	34451.20	23.404
4	P	17	SLU	-18757.00	-807.87	1180.83	-18757.00	-22266.00	32616.00	27.602
5	P	17	SLU	-18558.30	-680.47	883.10	-18558.30	-22499.30	29483.80	33.267
6	P	17	SLU	-18359.50	-553.07	585.35	-18359.50	-22792.80	24194.00	39.010
7	P	17	SLU	-18160.80	-425.67	287.62	-18160.80	-23075.60	15505.60	39.437
8	P	17	SLU	-17962.00	-298.27	-10.13	-17962.00	-23116.40	-917.85	39.873
9	P	17	SLU	-17763.30	-170.87	-307.86	-17763.30	-21414.80	-38812.30	40.319
10	P	17	SLU	-17564.50	-43.47	-605.61	-17564.50	-6629.21	-86477.20	40.775
11	P	17	SLU	-17365.80	83.93	-903.34	-17365.80	7865.90	-84032.80	41.242
12	P	17	SLU	-17167.00	211.33	-1201.09	-17167.00	12798.60	-72094.60	41.719

Relazione di calcolo

13	T	17	SLU	-16769.50	466.13	-1796.57	-16769.50	16254.50	-60495.10	33.749
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Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	1	SND	-6089.33	-3487.67	6100.21	-6089.33	-15847.80	27757.60	4.549
2	P	1	SND	-5936.44	-2797.23	4465.70	-5936.44	-15926.20	25622.00	5.725
3	P	1	SND	-5783.56	-2107.13	6016.91	-5783.56	-12753.70	36047.50	5.998
4	P	1	SND	-5630.67	-1417.96	9390.87	-5630.67	-7016.58	47273.50	5.032
5	P	1	SND	-5477.79	-736.44	13156.40	-5477.79	-3039.74	55343.00	4.206
6	P	1	SND	-5324.90	-679.55	17036.30	-5324.90	-2148.99	57171.10	3.356
7	P	1	SND	-5172.02	-1065.95	20962.80	-5172.02	-3038.48	55266.10	2.637
8	P	9	SND	-6552.05	-1750.72	-24829.10	-6552.05	-3614.44	-54510.40	2.195
9	P	9	SND	-6399.17	-2259.10	-29114.00	-6399.17	-4234.07	-53181.20	1.827
10	P	9	SND	-6246.28	-2767.77	-33407.50	-6246.28	-4234.29	-53155.80	1.591
11	P	1	SND	-4560.48	3422.53	36825.30	-4560.48	4931.32	51234.50	1.392
12	P	9	SND	-5940.51	-3785.39	-42009.10	-5940.51	-4950.09	-51586.50	1.229
13	T	1	SND	-4101.82	5494.57	48776.80	-4101.82	5857.48	49278.00	1.011

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-14667.20	-819.25	1472.45	12.58	155.83
1	P	20	SLE Q	-13289.80	-835.99	1167.52	11.85	144.45
2	P	18	SLE R	-14514.40	-731.47	1257.05	11.37	142.20
2	P	20	SLE Q	-13136.90	-745.09	1006.71	10.71	131.86
3	P	18	SLE R	-14361.50	-643.69	1041.67	10.23	129.22
3	P	20	SLE Q	-12984.10	-654.20	845.91	9.61	119.78
4	P	18	SLE R	-14208.60	-555.91	826.28	9.16	116.98
4	P	20	SLE Q	-12831.20	-563.29	685.11	8.59	108.36
5	P	18	SLE R	-14055.70	-468.13	610.89	8.16	105.45
5	P	20	SLE Q	-12678.30	-472.40	524.31	7.64	97.70
6	P	18	SLE R	-13902.80	-380.35	395.50	7.18	94.12
6	P	20	SLE Q	-12525.40	-381.50	363.51	6.73	87.44
7	P	18	SLE R	-13749.90	-292.58	180.12	6.20	82.80
7	P	20	SLE Q	-12372.50	-290.60	202.71	5.82	77.20
8	P	18	SLE R	-13597.00	-204.80	-35.27	5.34	73.13
8	P	20	SLE Q	-12219.60	-199.70	41.91	4.92	66.96
9	P	18	SLE R	-13444.20	-117.02	-250.65	5.09	71.93
9	P	20	SLE Q	-12066.80	-108.80	-118.88	4.41	62.31
10	P	18	SLE R	-13291.30	-29.24	-466.04	4.85	70.74
10	P	20	SLE Q	-11913.90	-17.90	-279.69	4.06	59.63
11	P	18	SLE R	-13138.40	58.54	-681.42	5.36	77.00
11	P	20	SLE Q	-11761.00	73.00	-440.48	4.64	66.26
12	P	18	SLE R	-12985.50	146.32	-896.81	6.26	87.00
12	P	20	SLE Q	-11608.10	163.90	-601.28	5.47	75.17
13	T	18	SLE R	-12679.70	321.88	-1327.59	8.05	107.09
13	T	20	SLE Q	-11302.30	345.69	-922.88	7.11	93.05

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	9	17653.70	2.50	28235.00	70976.40	1.599
2	P	9	17653.70	2.50	28235.00	70953.70	1.599
3	P	9	17653.70	2.50	28235.00	70931.00	1.599
4	P	9	17653.70	2.50	28235.00	70908.30	1.599
5	P	9	17653.70	2.50	28235.00	70885.60	1.599
6	P	9	17653.70	2.50	28235.00	70862.90	1.599
7	P	9	17653.70	2.50	28235.00	70840.20	1.599
8	P	9	17653.70	2.50	28235.00	70817.50	1.599
9	P	9	17653.70	2.50	28235.00	70794.80	1.599
10	P	9	17653.70	2.50	28235.00	70772.10	1.599
11	P	9	17653.70	2.50	28235.00	70749.40	1.599
12	P	9	17653.70	2.50	28235.00	70726.70	1.599
13	T	9	17653.70	2.50	28235.00	70681.30	1.599

Numero del nucleo n. 411

Nodi: -37711 -37957 -37958 -37959 -37960 -37688

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy	MRdz	Sic.
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Relazione di calcolo

			<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1P	17	SLU	-13234.60	296.13	-344.43	-626510.00	15541.80	-17762.70	47.339
2P	17	SLU	-13036.10	401.72	-197.10	-13036.10	15787.00	-7747.31	39.300
3P	17	SLU	-12837.50	507.31	-49.77	-12837.50	15648.00	-1438.82	30.827
4P	17	SLU	-12638.90	612.90	97.55	-12638.90	15689.40	2519.78	25.604
5P	17	SLU	-12440.40	718.49	244.88	-12440.40	15727.80	5313.00	21.870
6T	17	SLU	-11975.50	965.70	589.81	-11975.50	15649.90	9603.33	16.227

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	5	SND		-8044.82	3099.09	-3865.21	-8044.82	10666.80	-13207.60	3.427
2P	13	SND		-7439.71	2480.69	6277.81	-7439.71	9413.10	23777.50	3.788
3P	13	SND		-7286.96	1762.48	11072.00	-7286.96	5403.66	32857.10	2.970
4P	13	SND		-7134.22	1056.93	16081.90	-7134.22	2499.90	38345.50	2.384
5P	13	SND		-6981.48	757.11	21147.80	-6981.48	1729.19	39562.40	1.871
6T	13	SND		-6623.88	2661.64	33077.50	-6623.88	2921.49	37470.20	1.133

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_t <daN/cm ² >
1P	18	SLE	R	-9928.93	221.55	-254.55	5.30	71.00
1P	20	SLE	Q	-8953.42	189.04	-229.94	4.70	63.25
2P	18	SLE	R	-9776.19	301.37	-145.17	5.62	73.21
2P	20	SLE	Q	-8800.68	259.08	-126.76	4.96	64.91
3P	18	SLE	R	-9623.45	381.20	-35.78	5.94	75.41
3P	20	SLE	Q	-8647.94	329.13	-23.58	5.22	66.56
4P	18	SLE	R	-9470.71	461.03	73.61	6.56	81.65
4P	20	SLE	Q	-8495.20	399.17	79.59	5.80	72.49
5P	18	SLE	R	-9317.97	540.85	183.00	7.43	90.80
5P	20	SLE	Q	-8342.46	469.22	182.77	6.56	80.54
6T	18	SLE	R	-8960.36	727.74	439.10	9.93	115.83
6T	20	SLE	Q	-7984.85	633.21	424.33	8.76	102.86

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1P	13		20906.40	2.50	28220.30	70937.80	1.350
2P	13		20906.40	2.50	28220.30	70915.00	1.350
3P	13		20906.40	2.50	28220.30	70892.30	1.350
4P	13		20906.40	2.50	28220.30	70869.60	1.350
5P	13		20906.40	2.50	28220.30	70846.80	1.350
6P	13		20906.40	2.50	28220.30	70824.10	1.350

Numero del nucleo n. 412

Nodi: 3104 -37689 -38082 -38083 -38084 -38699

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-14534.40	430.39	-195.35	-14534.40	12062.00	-5393.00	27.955
2P	17	SLU		-14315.40	531.02	-167.90	-14315.40	11996.90	-3891.57	22.646
3P	17	SLU		-14096.40	631.66	-140.46	-14096.40	11907.50	-2550.05	18.819
4P	17	SLU		-13877.50	732.29	-113.01	-13877.50	11853.10	-1846.78	16.190
5P	17	SLU		-13658.50	832.93	-85.57	-13658.50	11824.70	-1125.86	14.186
6T	17	SLU		-13145.80	1068.54	-21.33	-13145.80	11917.80	-277.63	11.154

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	1	SND		-9142.69	2972.46	-8804.52	-9142.69	6610.25	-20018.00	2.269
2P	5	SND		-8989.14	2201.01	-12201.20	-8989.14	5238.91	-28023.40	2.299
3P	5	SND		-8820.70	1526.04	-15633.30	-8820.70	3310.83	-33060.10	2.115
4P	5	SND		-8652.26	854.07	-19172.10	-8652.26	1520.84	-36069.20	1.881
5P	5	SND		-8483.83	890.43	-22762.90	-8483.83	1520.15	-36038.90	1.583
6T	13	SND		-7997.86	2743.89	31306.50	-7997.86	2922.38	33568.20	1.072

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_t <daN/cm ² >
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Relazione di calcolo

1	P	18	SLE R	-10859.10	308.19	-138.76	5.89	77.05
1	P	20	SLE Q	-9743.78	290.66	-114.55	5.37	69.94
2	P	18	SLE R	-10690.70	385.33	-125.36	6.37	81.58
2	P	20	SLE Q	-9575.34	349.97	-93.15	5.71	72.98
3	P	18	SLE R	-10522.20	462.46	-111.96	6.85	86.13
3	P	20	SLE Q	-9406.90	409.28	-71.75	6.05	76.02
4	P	18	SLE R	-10353.80	539.59	-98.56	7.40	91.21
4	P	20	SLE Q	-9238.46	468.59	-50.35	6.43	79.38
5	P	18	SLE R	-10185.40	616.72	-85.16	8.04	96.86
5	P	20	SLE Q	-9070.03	527.90	-28.96	6.87	83.09
6	T	18	SLE R	-9791.01	797.30	-53.79	9.91	111.78
6	T	20	SLE Q	-8675.67	666.75	21.13	8.25	94.32

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	15226.40	2.50	31244.40	78643.10	2.052
2	P	13	15226.40	2.50	31244.40	78618.00	2.052
3	P	13	15226.40	2.50	31244.40	78592.80	2.052
4	P	13	15226.40	2.50	31244.40	78567.60	2.052
5	P	13	15226.40	2.50	31244.40	78542.40	2.052
6	T	13	15226.40	2.50	31244.40	78483.50	2.052

Numero del nucleo n. 413

Nodi: 3048 -24446 -24445 -24444 -24443 -22849 -29533 -29532 -29436 -29932 -29931 3074

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
20.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-14953.80	329.19	1328.29	-14953.80	26890.70	104646.00	78.954
2	P	17	SLU	-2727.57	-10.66	298.82	-2727.57	-270.67	9948.80	33.285
3	P	17	SLU	-12061.60	158.97	299.49	-1039020.00	22003.90	41747.70	86.143
4	P	17	SLU	-1493.03	-2.53	88.85	-1493.03	-45.57	2165.21	24.366
5	P	17	SLU	-12293.10	55.78	-531.55	-1039010.00	16592.10	-164785.00	84.520
6	P	17	SLU	-12123.90	6.88	-607.06	-1039010.00	713.27	-272556.00	85.700
7	P	17	SLU	-11919.60	-13.28	-504.31	-1039020.00	-4779.82	-262182.00	87.169
8	P	17	SLU	-11765.60	-21.35	-358.32	-1039010.00	-11424.50	-217108.00	88.309
9	P	17	SLU	-11653.70	-25.01	-223.96	-1039020.00	-17824.50	-149056.00	89.158
10	P	17	SLU	-12982.90	-31.24	-131.75	-1155140.00	-23568.80	-103222.00	88.974
11	P	17	SLU	-14233.00	-39.43	-150.99	-1277610.00	-26847.20	-104710.00	89.764
12	P	17	SLU	-14251.80	-45.54	-55.03	-1277600.00	-27393.60	-33221.30	89.645
13	P	17	SLU	-14033.70	-61.09	-200.87	-1277600.00	-27027.50	-91504.50	91.038
14	P	17	SLU	-13896.50	-76.87	-299.96	-1277600.00	-26826.60	-104740.00	91.937
15	P	17	SLU	-9253.10	-92.84	1879.11	-9253.10	-8584.75	201490.00	>100
16	T	17	SLU	-7985.44	-273.43	2319.83	-7985.44	-16523.90	145337.00	62.620

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	56017.70	497.59	78276.90	56017.70	2318.33	173658.00	2.219
2	P	13	SND	29090.40	-112.30	696.99	29090.40	-309.25	2516.22	2.954
3	P	13	SND	41715.70	258.96	53755.10	41715.70	978.95	102265.00	1.881
4	P	13	SND	12993.90	-51.35	207.91	12993.90	-129.79	841.78	2.670
5	P	13	SND	44460.60	303.19	54009.20	44460.60	1363.85	99270.50	1.817
6	P	13	SND	46136.00	368.28	53956.60	46136.00	1358.78	98261.60	1.799
7	P	13	SND	47342.00	440.18	53918.30	47342.00	1355.30	97547.90	1.787
8	P	13	SND	48143.90	517.84	53870.40	48143.90	1352.96	97071.00	1.780
9	P	13	SND	48481.60	603.87	53710.60	48481.60	1352.28	96892.10	1.782
10	P	13	SND	50954.00	789.60	62654.70	50954.00	2074.00	119287.00	1.874
11	P	5	SND	58261.80	-1050.70	-72603.80	58261.80	-3619.50	-165012.00	2.273
12	P	5	SND	55402.70	-1210.72	-70831.30	55402.70	-3637.53	-166897.00	2.356
13	P	5	SND	51659.50	-1516.71	-66358.60	51659.50	-3662.18	-169425.00	2.553
14	P	5	SND	47308.10	-1757.59	62403.00	47308.10	-3687.45	172273.00	2.760
15	P	9	SND	29302.30	-1885.83	28868.70	29302.30	-6355.59	93600.80	3.145
16	P	13	SND	18827.20	-2290.45	22132.60	18827.20	-8959.03	86908.60	3.820

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm ² >	σ _t <daN/cm ² >
1	P	18	SLE R	-10960.10	240.34	869.89	3.27	41.73
1	P	20	SLE Q	-10367.40	218.62	754.77	3.02	38.71

Relazione di calcolo

2P	18	SLE R	-2005.02	-8.26	211.49	5.01	62.70
2P	20	SLE Q	-1869.63	-8.54	183.97	4.45	56.10
3P	18	SLE R	-8841.41	116.26	151.16	2.47	32.86
3P	20	SLE Q	-8376.71	105.76	103.18	2.30	30.62
4P	18	SLE R	-1099.04	-1.96	63.40	5.45	56.17
4P	20	SLE Q	-1025.68	-2.10	55.37	4.79	50.57
5P	18	SLE R	-8995.18	41.03	-426.98	2.35	33.55
5P	20	SLE Q	-8479.47	36.91	-389.61	2.19	31.41
6P	18	SLE R	-8870.63	5.53	-476.50	2.14	31.80
6P	20	SLE Q	-8351.35	4.73	-421.57	2.00	29.66
7P	18	SLE R	-8722.30	-8.99	-400.80	2.08	30.81
7P	20	SLE Q	-8206.75	-8.10	-341.78	1.94	28.63
8P	18	SLE R	-8610.09	-14.69	-294.81	2.03	29.75
8P	20	SLE Q	-8096.71	-12.83	-233.94	1.87	27.51
9P	18	SLE R	-8528.01	-17.17	-197.13	1.96	28.70
9P	20	SLE Q	-8014.94	-14.61	-132.11	1.80	26.38
10P	18	SLE R	-9509.54	-21.39	-136.80	1.92	28.10
10P	20	SLE Q	-8914.98	-17.84	-51.42	1.75	25.66
11P	18	SLE R	-10432.40	-27.01	-156.56	1.87	27.26
11P	20	SLE Q	-9747.99	-22.38	-31.93	1.69	24.69
12P	18	SLE R	-10448.70	-31.23	-78.62	1.86	27.03
12P	20	SLE Q	-9754.94	-25.83	68.42	1.72	25.06
13P	18	SLE R	-10286.50	-42.24	-181.62	1.93	27.70
13P	20	SLE Q	-9589.04	-35.64	10.92	1.72	24.74
14P	18	SLE R	-10189.90	-53.58	-245.48	2.00	28.32
14P	20	SLE Q	-9495.65	-46.35	-19.23	1.76	25.02
15P	18	SLE R	-6795.64	-65.52	1357.71	2.47	34.27
15P	20	SLE Q	-6447.20	-59.10	1369.49	2.38	33.05
16T	18	SLE R	-5869.71	-199.22	1671.33	3.41	42.73
16T	20	SLE Q	-5586.73	-195.75	1647.69	3.34	41.73

Definizione Pareti

Liv. 1 Par. 1 dal nodo 3048 al nodo 3074
 Liv. 2 Par. 1 dal nodo -37639 al nodo -30080
 Liv. 3 Par. 1/1 dal nodo -24532 al nodo -37639
 Par. 1/2 dal nodo -30080 al nodo -30041
 Liv. 4 Par. 1 dal nodo -36919 al nodo -30081
 Liv. 5 Par. 1/1 dal nodo -24531 al nodo -37640
 Par. 1/2 dal nodo -30081 al nodo -30042
 Liv. 6 Par. 1/1 dal nodo -24530 al nodo -37641
 Par. 1/2 dal nodo -30082 al nodo -30043
 Liv. 7 Par. 1/1 dal nodo -24529 al nodo -37642
 Par. 1/2 dal nodo -30083 al nodo -30044
 Liv. 8 Par. 1/1 dal nodo -24528 al nodo -37643
 Par. 1/2 dal nodo -30084 al nodo -30045
 Liv. 9 Par. 1/1 dal nodo -24527 al nodo -37644
 Par. 1/2 dal nodo -30085 al nodo -30046
 Liv. 10 Par. 1/1 dal nodo -24526 al nodo -37645
 Par. 1/2 dal nodo -36914 al nodo -30047
 Liv. 11 Par. 1 dal nodo -24525 al nodo -30048
 Liv. 12 Par. 1 dal nodo -24524 al nodo -30049
 Liv. 13 Par. 1 dal nodo -24523 al nodo -30050
 Liv. 14 Par. 1 dal nodo -24522 al nodo -30051
 Liv. 15 Par. 1 dal nodo -36922 al nodo -30052
 Liv. 16 Par. 1 dal nodo -36921 al nodo -30053

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	Par.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	1	13	19380.90	2.50	68124.00	134814.00	3.515	
2P	1	13	2357.44	2.50	11329.40	22420.30	4.806	
3P	1/1	13	591.22	2.50	4691.08	9283.39	7.935	
3P	1/2	13	16258.40	2.50	49684.20	98322.30	3.056	
4P	1	13	1350.92	2.50	5428.68	10743.10	4.019	
5P	1/1	13	12.23	2.50	4691.08	9283.39	383.568	
5P	1/2	13	15501.10	2.50	49684.20	98322.30	3.205	
6P	1/1	13	8.58	2.50	4691.08	9283.39	547.035	
6P	1/2	13	15082.00	2.50	49684.20	98322.30	3.294	
7P	1/1	13	230.84	2.50	4691.08	9283.39	20.322	
7P	1/2	13	14944.40	2.50	49684.20	98322.30	3.325	
8P	1/1	13	224.63	2.50	4691.08	9283.39	20.884	
8P	1/2	13	14945.90	2.50	49684.20	98322.30	3.324	
9P	1/1	13	226.53	2.50	4691.08	9283.39	20.708	
9P	1/2	13	15026.10	2.50	49684.20	98322.30	3.307	
10P	1/1	13	249.61	2.50	4691.08	9283.39	18.794	
10P	1/2	13	16267.10	2.50	56322.50	111459.00	3.462	
11P	1	13	17371.00	2.50	68124.00	134814.00	3.922	
12P	1	13	18131.60	2.50	68124.00	134814.00	3.757	
13P	1	13	19478.50	2.50	68124.00	134814.00	3.497	

Relazione di calcolo

14	P	1	13	21513.20	2.50	68124.00	134814.00	3.167
15	P	1	13	29762.10	2.50	56322.50	111459.00	1.892
16	P	1	13	37767.10	2.50	56322.50	111459.00	1.491

Numero del nucleo n. 414

Nodi: 3074 -36338 -36337 -36336 -36335 -36334 -36333 -616 -36332 3076 -36331 -36330 -36329 -36328 -36327 -36326 -36325 3078

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	TP	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-16801.40	1928.16	-8250.49	-16801.40	30844.00	-136529.00	16.520
2	P	17	SLU	-16275.20	1092.04	-7719.74	-16275.20	29758.10	-221163.00	28.622
3	P	17	SLU	-15871.50	601.22	-7367.09	-15871.50	26679.50	-336797.00	45.708
4	P	17	SLU	-15419.20	309.85	-6890.68	-15419.20	17314.50	-422382.00	61.287
5	P	17	SLU	-14959.40	124.11	-6347.91	-14959.40	6199.79	-468741.00	73.834
6	P	17	SLU	-14480.20	-5.98	-5749.15	-14480.20	-4271.73	-472552.00	82.198
7	P	17	SLU	-13990.20	-108.80	-5126.39	-13990.20	-9751.30	-456308.00	89.012
8	P	17	SLU	-13476.00	-201.65	-4496.93	-13476.00	-17273.70	-420266.00	93.441
9	P	17	SLU	-12955.50	-292.97	-3887.66	-12955.50	-24253.40	-363486.00	93.441
10	T	17	SLU	-8262.67	31.80	-5125.25	-8262.67	-0.00	-217281.00	42.394

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yzd <daNm>	Sic.
1	P	5	SND	84915.80	5014.71	-151126.00	84915.80	4601.22	-160387.00	1.061
2	P	5	SND	81513.80	3394.85	144757.00	81513.80	4678.37	164432.00	1.136
3	P	5	SND	77480.00	-1225.88	-147464.00	77480.00	-2269.46	-181154.00	1.229
4	P	5	SND	73131.50	-616.61	-146282.00	73131.50	-2287.22	-186450.00	1.275
5	P	13	SND	61872.10	-470.55	-151029.00	61872.10	-2343.28	-200522.00	1.328
6	P	13	SND	58372.20	-1165.78	-150840.00	58372.20	-2359.18	-204875.00	1.358
7	P	13	SND	54783.00	-2210.05	-151380.00	54783.00	-3389.86	-204966.00	1.354
8	P	13	SND	51148.30	-3603.38	-152891.00	51148.30	-5156.51	-201576.00	1.319
9	P	13	SND	47404.30	-5565.45	-155592.00	47404.30	-6581.16	-198543.00	1.276
10	P	13	SND	45371.70	-1763.00	-79144.10	45371.70	-2262.86	-80734.50	1.019

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm ² >	σ _f <daN/cm ² >
1	P	18	SLE R	-12847.00	1401.79	-5725.12	7.37	82.11
1	P	20	SLE Q	-12466.70	1323.85	-5115.47	6.83	76.37
2	P	18	SLE R	-12418.70	797.42	-5336.20	4.46	55.59
2	P	20	SLE Q	-12043.50	758.62	-4812.35	4.18	52.04
3	P	18	SLE R	-12083.60	440.74	-5082.83	3.16	41.83
3	P	20	SLE Q	-11710.00	422.31	-4636.54	2.99	39.56
4	P	18	SLE R	-11717.40	227.78	-4745.37	2.51	34.75
4	P	20	SLE Q	-11350.50	219.40	-4384.37	2.39	33.10
5	P	18	SLE R	-11347.80	91.15	-4362.44	2.09	30.03
5	P	20	SLE Q	-10989.10	87.57	-4090.05	2.00	28.74
6	P	18	SLE R	-10965.60	-5.26	-3940.09	1.78	26.41
6	P	20	SLE Q	-10617.00	-6.91	-3758.28	1.72	25.47
7	P	18	SLE R	-10575.90	-82.08	-3500.66	1.84	26.53
7	P	20	SLE Q	-10237.40	-83.79	-3409.27	1.80	25.83
8	P	18	SLE R	-10168.50	-151.95	-3055.97	1.89	26.45
8	P	20	SLE Q	-9840.30	-155.52	-3052.99	1.87	26.03
9	P	18	SLE R	-9755.55	-221.07	-2624.78	1.94	26.37
9	P	20	SLE Q	-9435.70	-228.82	-2705.84	1.94	26.27
10	T	18	SLE R	-6157.44	22.27	-3717.69	2.19	31.82
10	T	20	SLE Q	-6091.97	-2.06	-3587.28	2.05	30.09

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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/cm ² >	ε _{sm}	W _k <mm>
1	P	20	SLE Q	-12466.70	1323.85	-5115.47	33.11	228.00	0.50	16.00	201.01	8.04	677.57	72.66	0.02	0.01
1	P	19	SLE F	-12535.80	1336.66	-5264.77	33.11	228.00	0.50	16.00	200.52	8.04	675.10	74.37	0.02	0.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	25116.20	2.50	123172.00	253907.00	4.904

2	P	13	25851.40	2.50	123172.00	253907.00	4.765
3	P	13	26319.10	2.50	123172.00	253907.00	4.680
4	P	13	26542.40	2.50	123172.00	253907.00	4.641
5	P	13	26612.50	2.50	123172.00	253907.00	4.628
6	P	13	26587.80	2.50	123172.00	253907.00	4.633
7	P	13	26499.00	2.50	123172.00	253907.00	4.648
8	P	13	26367.00	2.50	123172.00	253907.00	4.671
9	P	13	26200.40	2.50	123172.00	253907.00	4.701
10	T	1	84945.20	2.50	89042.10	183552.00	1.048

Numero del nucleo n. 415

Nodi: 3052 -37383 -37382 -37381 -37380 -37379 -37378 -37377 -37376 3076

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
20.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-11740.60	5.11	200.14	-969752.00	5584.25	180020.00	82.598
2	P	17	SLU	-11136.60	-1.03	116.12	-969744.00	-343.34	193050.00	87.077
3	P	17	SLU	-10469.60	-3.95	-23.29	-969744.00	-15974.20	-95703.00	92.624
4	P	17	SLU	-8572.10	-3.71	-71.01	-828478.00	-5528.99	-110515.00	96.648
5	P	17	SLU	-7954.34	-4.29	-208.10	-828472.00	-2521.61	-118770.00	>100
6	P	17	SLU	-7323.28	-4.81	-342.24	-828472.00	-2526.17	-118429.00	>100
7	P	17	SLU	-6691.37	-5.64	-467.18	-828472.00	-1825.69	-119330.00	>100
8	P	17	SLU	-631.62	-0.46	-53.49	-631.62	0.00	-3345.34	62.535
9	P	17	SLU	-6062.60	-7.36	-584.67	-828472.00	-1825.20	-118984.00	>100
10	P	17	SLU	-512.21	-1.25	-52.20	-512.21	-103.64	-3297.77	63.186
11	P	17	SLU	-5440.66	-9.72	-694.70	-828472.00	-2539.99	-117409.00	>100

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	13	SND	68869.10	460.56	41911.30	68869.10	1336.64	72030.90	1.719
2	P	13	SND	67257.30	330.59	39227.60	67257.30	935.20	74566.50	1.901
3	P	13	SND	65272.50	247.91	36801.80	65272.50	942.82	75855.70	2.061
4	P	13	SND	64465.70	-201.62	-19801.60	64465.70	-558.61	-34911.50	1.603
5	P	13	SND	61463.60	-212.53	-19004.90	61463.60	-576.37	-36696.00	1.737
6	P	5	SND	49280.10	-264.91	-21613.60	49280.10	-641.92	-43751.90	1.864
7	P	5	SND	46905.60	-345.85	-20695.80	46905.60	-948.56	-44230.50	1.960
8	P	13	SND	3158.24	37.56	602.40	3158.24	78.94	1586.00	2.413
9	P	5	SND	44193.60	-448.94	-19922.40	44193.60	-958.01	-45858.10	2.103
10	P	13	SND	2814.99	57.71	674.22	2814.99	126.17	1619.20	2.247
11	P	5	SND	40985.20	-571.09	-19307.30	40985.20	-1335.53	-46605.30	2.206

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
1	P	18	SLE R	-8746.90	5.81	135.11	1.94	28.83
1	P	20	SLE Q	-8221.51	11.24	74.68	1.83	26.95
2	P	18	SLE R	-8292.82	0.85	80.92	1.78	26.66
2	P	20	SLE Q	-7769.77	4.83	48.94	1.68	24.96
3	P	18	SLE R	-7791.90	-1.60	-14.33	1.64	24.54
3	P	20	SLE Q	-7272.06	1.44	-15.99	1.53	22.92
4	P	18	SLE R	-6368.82	-1.74	-48.31	1.59	23.75
4	P	20	SLE Q	-5898.95	0.44	-38.51	1.47	21.99
5	P	18	SLE R	-5902.96	-2.38	-144.07	1.50	22.34
5	P	20	SLE Q	-5428.90	-0.72	-110.89	1.35	20.19
6	P	18	SLE R	-5427.29	-2.95	-237.83	1.47	21.84
6	P	20	SLE Q	-4949.28	-1.72	-181.72	1.31	19.44
7	P	18	SLE R	-4951.09	-3.78	-324.89	1.44	21.29
7	P	20	SLE Q	-4469.48	-2.94	-246.48	1.26	18.63
8	P	18	SLE R	-480.56	-0.21	-39.54	2.93	16.59
8	P	20	SLE Q	-467.44	-0.08	-39.14	2.88	16.07
9	P	18	SLE R	-4477.60	-5.33	-406.32	1.41	20.72
9	P	20	SLE Q	-3993.32	-4.93	-306.03	1.21	17.81
10	P	18	SLE R	-391.60	-0.75	-38.55	2.85	18.31
10	P	20	SLE Q	-382.92	-0.51	-37.94	2.79	18.05
11	P	18	SLE R	-4009.55	-7.46	-482.11	1.38	20.13
11	P	20	SLE Q	-3524.08	-7.68	-360.58	1.17	17.01

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctgθ	VRsd	VRcd	Sic.
------	------	----	------	------	------	------	------

Relazione di calcolo

			<daN>		<daN>	<daN>	
1P	5	24438.40	2.50	56322.50	111459.00	2.305	
2P	5	25286.20	2.50	56322.50	111459.00	2.227	
3P	5	25786.50	2.50	56322.50	111459.00	2.184	
4P	5	21600.00	2.50	48946.50	96862.60	2.266	
5P	5	21802.00	2.50	48946.50	96862.60	2.245	
6P	5	22260.90	2.50	48946.50	96862.60	2.199	
7P	5	23167.70	2.50	48946.50	96862.60	2.113	
8P	5	5552.95	2.50	6166.32	12202.80	1.110	
9P	5	24788.20	2.50	48946.50	96862.60	1.975	
10P	5	6037.17	2.50	6166.29	12202.80	1.021	
11P	5	27533.50	2.50	48946.50	96862.60	1.778	

Numero del nucleo n. 416

Nodi: 3092 -26044 -630 -26081 3093 -26106 3094

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Cls	Fck	Fctk	Fcd	Fctd	TP	Fyk	Fyd
<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>		<daN/cm²>	<daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy	MRdz	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1P	17	SLU		-17646.80	-2966.21	-279.56	-17646.80	-12170.40	-1128.87	4.102
2P	17	SLU		-17429.30	-2652.53	-303.15	-17429.30	-12138.90	-1393.05	4.577
3P	17	SLU		-17211.80	-2338.72	-326.74	-17211.80	-12130.90	-1614.74	5.182
4P	17	SLU		-16994.40	-2025.04	-350.32	-16994.40	-12140.90	-2196.42	6.004
5P	17	SLU		-16776.90	-1711.36	-373.91	-16776.90	-12146.80	-2678.30	7.101
6P	17	SLU		-16559.40	-1397.55	-397.50	-16559.40	-12199.90	-3533.22	8.741
7P	17	SLU		-16341.90	-1083.88	-421.08	-16341.90	-12241.00	-4774.70	11.300
8P	17	SLU		-16124.50	-770.20	-444.67	-16124.50	-12182.90	-7045.34	15.825
9P	17	SLU		-15906.90	-456.39	-468.26	-15906.90	-12095.80	-12369.80	26.459
10P	17	SLU		-15689.50	-142.71	-491.85	-627511.00	-10641.70	-36555.00	39.996

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	M'ydy	M'ydz	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1P	13	SND		1306.73	-2554.91	-21627.10	1306.73	-3548.19	-28530.50	1.320
2P	9	SND		1561.07	-2344.69	-19967.00	1561.07	-3541.93	-28461.90	1.427
3P	13	SND		1641.34	-2176.31	-19425.40	1641.34	-3151.24	-29359.50	1.511
4P	13	SND		1808.61	-1997.09	-18337.70	1808.61	-3149.11	-29288.90	1.597
5P	13	SND		1975.88	-1823.63	-17260.90	1975.88	-3147.04	-29253.70	1.695
6P	13	SND		2143.21	-1655.06	-16196.50	2143.21	-2802.64	-30003.20	1.851
7P	13	SND		2310.48	-1490.78	-15148.30	2310.48	-2801.17	-29932.10	1.975
8P	13	SND		2477.75	-1330.05	-14119.20	2477.75	-2799.48	-29896.60	2.117
9P	9	SND		2732.16	-1120.25	-13131.90	2732.16	-2794.68	-29790.20	2.270
10P	13	SND		2812.36	-1016.95	-12136.60	2812.36	-2761.41	-29831.00	2.460

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ _c	σ _f
				<daN>	<daNm>	<daNm>	<daN/cm²>	<daN/cm²>
1P	18	SLE	R	-13376.80	-2161.68	-296.84	28.00	416.92
1P	20	SLE	Q	-12239.40	-1886.43	-242.88	24.34	346.68
2P	18	SLE	R	-13209.50	-1933.08	-307.32	25.08	338.92
2P	20	SLE	Q	-12072.10	-1688.69	-250.17	21.81	280.45
3P	18	SLE	R	-13042.20	-1704.38	-317.80	22.14	262.75
3P	20	SLE	Q	-11904.80	-1490.87	-257.45	19.26	216.00
4P	18	SLE	R	-12874.90	-1475.78	-328.27	19.18	198.27
4P	20	SLE	Q	-11737.50	-1293.12	-264.74	16.70	174.40
5P	18	SLE	R	-12707.60	-1247.17	-338.74	16.22	175.72
5P	20	SLE	Q	-11570.20	-1095.38	-272.02	14.16	154.64
6P	18	SLE	R	-12540.30	-1018.48	-349.21	13.31	151.87
6P	20	SLE	Q	-11402.90	-897.56	-279.30	11.66	133.93
7P	18	SLE	R	-12373.00	-789.87	-359.69	10.70	128.54
7P	20	SLE	Q	-11235.60	-699.81	-286.58	9.45	113.91
8P	18	SLE	R	-12205.80	-561.27	-370.16	8.55	107.51
8P	20	SLE	Q	-11068.30	-502.07	-293.87	7.63	95.92
9P	18	SLE	R	-12038.40	-332.57	-380.64	6.83	89.95
9P	20	SLE	Q	-10901.00	-304.25	-301.15	6.14	80.67
10P	18	SLE	R	-11871.20	-103.97	-391.11	5.15	72.60
10P	20	SLE	Q	-10733.70	-106.50	-308.44	4.67	65.50

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N	My	Mz	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	W _k
				<daN>	<daNm>	<daNm>	<mm>	<mm>			<mm>	<cm²>	<cm²>	<daN/cm²>		<mm>

Relazione di calcolo

1	P	20	SLE Q	-12239.40	-1886.43	-242.88	33.57	216.01	0.50	16.00	123.73	14.07	497.75	346.68	0.10	0.02
1	P	19	SLE F	-12470.10	-1935.76	-253.97	33.57	216.01	0.50	16.00	123.83	14.07	498.67	358.53	0.10	0.02
2	P	20	SLE Q	-12072.10	-1688.69	-250.17	33.57	216.01	0.50	16.00	161.26	8.04	473.08	280.45	0.08	0.02
2	P	19	SLE F	-12302.80	-1732.42	-261.91	33.57	216.01	0.50	16.00	161.44	8.04	473.99	290.20	0.08	0.02
3	P	20	SLE Q	-11904.80	-1490.87	-257.45	33.57	216.01	0.50	16.00	242.25	4.02	440.08	216.00	0.06	0.03
3	P	19	SLE F	-12135.50	-1528.99	-269.85	33.57	216.01	0.50	16.00	242.59	4.02	440.95	223.67	0.07	0.03
4	P	20	SLE Q	-11737.50	-1293.12	-264.74	33.57	216.01	0.50	16.00	380.89	2.01	394.27	154.51	0.05	0.03
4	P	19	SLE F	-11968.20	-1325.65	-277.78	33.57	216.01	0.50	16.00	381.51	2.01	395.04	160.15	0.05	0.03

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	4870.91	2.50	31244.30	77626.50	6.414
2	P	5	4870.91	2.50	31244.30	77601.50	6.414
3	P	5	4870.91	2.50	31244.30	77576.50	6.414
4	P	5	4870.91	2.50	31244.30	77551.50	6.414
5	P	5	4870.91	2.50	31244.30	77526.50	6.414
6	P	5	4870.91	2.50	31244.30	77501.40	6.414
7	P	5	4870.91	2.50	31244.30	77476.40	6.414
8	P	5	4870.91	2.50	31244.30	77451.40	6.414
9	P	5	4870.91	2.50	31244.30	77426.40	6.414

Numero del nucleo n. 417

Nodi: -33606 -33605 3038 -33604 -33603 3039

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-20512.90	-710.88	-2257.78	-20512.90	-20119.80	-64381.50	28.496
2	P	17	SLU	-20257.50	-498.75	-1748.99	-787817.00	-19025.30	-68992.10	38.890
3	P	17	SLU	-20002.00	-286.62	-1240.20	-787817.00	-17546.30	-75144.20	39.387
4	P	17	SLU	-19746.60	-74.49	-731.41	-787817.00	-9570.37	-99625.00	39.896
5	P	17	SLU	-19491.20	137.64	-222.62	-787817.00	24504.20	-39122.70	40.419

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	1	SND	-9987.93	-4071.21	-54344.70	-9987.93	-5084.21	-63745.80	1.173
2	P	1	SND	-9791.45	-3054.38	-43699.30	-9791.45	-4298.01	-65384.30	1.496
3	P	1	SND	-9594.96	-2037.58	-33053.90	-9594.96	-4296.10	-65328.90	1.977
4	P	1	SND	-9398.47	-1020.96	-22408.60	-9398.47	-3029.85	-67908.80	3.030
5	P	1	SND	-9201.98	175.20	-11763.50	-9201.98	677.69	-73103.20	6.214

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _f <daN/cm²>
1	P	18	SLE R	-15300.80	-536.93	-1636.52	9.57	124.39
1	P	20	SLE Q	-13627.80	-501.23	-1375.94	8.55	110.54
2	P	18	SLE R	-15104.30	-377.98	-1267.13	8.01	106.56
2	P	20	SLE Q	-13431.30	-353.73	-1079.82	7.16	94.85
3	P	18	SLE R	-14907.80	-219.03	-897.75	6.50	89.34
3	P	20	SLE Q	-13234.80	-206.23	-783.69	5.82	79.73
4	P	18	SLE R	-14711.30	-60.07	-528.37	4.99	72.12
4	P	20	SLE Q	-13038.30	-58.73	-487.57	4.48	64.62
5	T	18	SLE R	-14318.30	257.83	210.38	5.59	75.74
5	T	20	SLE Q	-12645.40	236.27	104.67	4.88	65.79

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	37247.50	2.50	37422.40	78632.00	1.005
2	P	1	37247.50	2.50	37422.40	78602.70	1.005
3	P	1	37247.50	2.50	37422.40	78573.40	1.005
4	P	1	37247.50	2.50	37422.40	78544.10	1.005
5	P	1	37247.50	2.50	37422.40	78514.80	1.005

Numero del nucleo n. 418

Nodi: -37686 -38530 -38531 -38532 -38690 -37874

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Cls	Fck	Fctk	Fcd	Fctd	TP	Fyk	Fyd
<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy	MRdz	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	17	SLU	-12268.90	336.76	0.12	-12268.90	13404.10	-84.43	39.804
2	P	17	SLU	-12020.10	389.15	80.48	-12020.10	13232.90	2815.44	34.045
3	P	17	SLU	-11771.30	441.55	160.83	-11771.30	13302.40	4825.46	30.112
4	P	17	SLU	-11522.40	493.94	241.19	-11522.40	13352.20	6541.74	27.050
5	P	17	SLU	-11273.60	546.33	321.54	-11273.60	13279.70	7758.91	24.262
6	T	17	SLU	-10691.00	668.99	509.67	-10691.00	13235.90	10126.60	19.816

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	M' ydy	M' ydz	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	13	SND	-5721.80	4669.92	13301.10	-5721.80	7148.21	20793.80	1.560
2	P	13	SND	-5530.39	3655.58	16595.60	-5530.39	6854.34	30116.70	1.818
3	P	13	SND	-5338.98	2646.66	20227.60	-5338.98	5082.92	36684.30	1.815
4	P	13	SND	-5147.58	1656.46	24023.60	-5147.58	2957.91	42106.00	1.753
5	P	13	SND	-4956.18	845.26	27908.70	-4956.18	1521.04	44562.90	1.597
6	T	13	SND	-4508.05	2781.40	37180.30	-4508.05	2951.20	41865.80	1.126

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N	My	Mz	σ_c	σ_t
				<daN>	<daNm>	<daNm>	<daN/cmq>	<daN/cmq>
1	P	18	SLE R	-9150.62	233.48	20.65	4.05	53.37
1	P	20	SLE Q	-8287.53	203.35	64.45	3.67	48.65
2	P	18	SLE R	-8959.21	277.17	78.55	4.35	56.43
2	P	20	SLE Q	-8096.12	239.46	74.73	3.86	50.35
3	P	18	SLE R	-8767.81	320.86	136.45	4.65	59.48
3	P	20	SLE Q	-7904.72	275.56	85.01	4.05	52.06
4	P	18	SLE R	-8576.40	364.55	194.35	4.95	62.55
4	P	20	SLE Q	-7713.31	311.67	95.29	4.24	53.76
5	P	18	SLE R	-8384.99	408.24	252.25	5.28	65.96
5	P	20	SLE Q	-7521.91	347.78	105.57	4.44	55.54
6	T	18	SLE R	-7936.87	510.53	387.80	6.28	75.75
6	T	20	SLE Q	-7073.78	432.32	129.64	5.04	60.79

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu	ctg θ	VRsd	VRcd	Sic.
			<daN>		<daN>	<daN>	
1	P	13	16642.90	2.50	35669.90	89094.90	2.143
2	P	13	16642.90	2.50	35669.90	89066.20	2.143
3	P	13	16642.90	2.50	35669.90	89037.40	2.143
4	P	13	16642.90	2.50	35669.90	89008.70	2.143
5	P	13	16642.90	2.50	35669.90	88980.00	2.143
6	T	13	16642.90	2.50	35669.90	88912.70	2.143

Numero del nucleo n. 419

Nodi: 3106 -38306 -38307 -38308 -37690

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf	Cls	Fck	Fctk	Fcd	Fctd	TP	Fyk	Fyd
<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	MRdy	MRdz	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	17	SLU	-14213.10	940.07	1012.48	-14213.10	11768.10	12584.90	12.471
2	P	17	SLU	-14014.10	780.02	1212.68	-14014.10	11534.30	17728.00	14.668
3	P	17	SLU	-13815.00	619.98	1412.87	-13815.00	11045.70	25780.30	18.168
4	P	17	SLU	-13615.90	459.93	1613.07	-13615.90	9799.99	34320.80	21.279
5	P	17	SLU	-13416.90	299.89	1813.27	-13416.90	7001.11	42665.60	23.525
6	T	17	SLU	-12950.80	-74.82	2282.01	-12950.80	-1378.92	50327.70	22.050

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N	My	Mz	Nu	M' ydy	M' ydz	Sic.
				<daN>	<daNm>	<daNm>	<daN>	<daNm>	<daNm>	
1	P	9	SND	-2567.41	3454.62	10409.70	-2567.41	6076.41	18388.70	1.766
2	P	13	SND	-2011.13	2225.47	12078.20	-2011.13	4405.84	23680.40	1.961
3	P	13	SND	-1858.00	1254.26	13381.30	-1858.00	2774.98	27104.20	2.027

Relazione di calcolo

4	P	13	SND	-1704.88	768.31	14716.50	-1704.88	1449.46	29169.30	1.982
5	P	13	SND	-1551.75	1207.76	16074.80	-1551.75	2082.15	28179.00	1.753
6	T	13	SND	-1193.25	-3605.70	19314.80	-1193.25	-4373.30	23436.10	1.213

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-10649.00	617.77	736.27	10.42	128.45
1	P	20	SLE Q	-9580.14	616.57	635.83	10.01	121.53
2	P	18	SLE R	-10495.80	515.29	886.77	9.67	121.88
2	P	20	SLE Q	-9427.02	510.12	807.36	9.21	114.92
3	P	18	SLE R	-10342.70	412.81	1037.26	8.99	115.87
3	P	20	SLE Q	-9273.89	403.66	978.88	8.51	108.81
4	P	18	SLE R	-10189.60	310.34	1187.76	8.37	110.35
4	P	20	SLE Q	-9120.76	297.21	1150.41	7.87	103.29
5	P	18	SLE R	-10036.50	207.86	1338.25	7.77	105.19
5	P	20	SLE Q	-8967.64	190.76	1321.94	7.27	98.21
6	P	18	SLE R	-9883.34	105.39	1488.76	7.20	100.27
6	T	18	SLE R	-9677.97	-32.06	1690.62	6.96	99.03
6	T	20	SLE Q	-8609.14	-58.47	1723.54	6.95	97.44

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	5932.74	2.50	28294.00	70312.50	4.769
2	P	13	5932.74	2.50	28294.00	70289.70	4.769
3	P	13	5932.74	2.50	28294.00	70267.00	4.769
4	P	13	5932.74	2.50	28294.00	70244.20	4.769
5	P	13	5932.74	2.50	28294.00	70221.40	4.769
6	P	13	5932.74	2.50	28294.00	70198.60	4.769

Numero del nucleo n. 420

Nodi: 3024 -16295 -16294 -16293 -16292 -16291 3027

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	TP	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-18711.70	-1406.06	-686.77	-18711.70	-26107.60	-12791.10	18.579
2	P	17	SLU	-18293.30	-1034.12	-1172.63	-18293.30	-25910.40	-29330.20	25.027
3	P	17	SLU	-17874.80	-662.07	-1658.63	-17874.80	-24971.90	-61764.20	37.304
4	P	17	SLU	-17456.40	-290.13	-2144.49	-975950.00	-17172.00	-121056.00	55.908
5	P	17	SLU	-17038.00	81.81	-2630.36	-975950.00	4051.24	-160449.00	57.281
6	T	17	SLU	-16201.00	825.81	-3602.25	-16201.00	21786.10	-94991.10	26.367

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	13	SND	-5392.87	-6838.56	16399.40	-5392.87	-16299.20	39947.60	2.428
2	P	5	SND	-7672.97	-4228.95	-24681.60	-7672.97	-12257.90	-69100.20	2.803
3	P	5	SND	-7351.04	-2359.10	-33426.30	-7351.04	-6105.85	-88087.60	2.635
4	P	5	SND	-7029.19	-3406.96	-42651.70	-7029.19	-6743.65	-86104.60	2.019
5	P	5	SND	-6707.35	-5676.27	-52093.30	-6707.35	-8300.96	-81112.80	1.556
6	T	5	SND	-6063.56	-10594.20	-71271.40	-6063.56	-10529.20	-73721.10	1.034

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-14212.10	-979.11	-464.96	8.37	98.47
1	P	20	SLE Q	-13290.20	-961.09	-432.31	8.12	94.72
2	P	18	SLE R	-13890.30	-716.54	-852.76	7.08	87.73
2	P	20	SLE Q	-12968.40	-706.08	-855.53	6.88	84.79
3	P	18	SLE R	-13568.30	-453.90	-1240.68	6.00	78.05
3	P	20	SLE Q	-12646.40	-451.00	-1278.88	5.83	75.57
4	P	18	SLE R	-13246.50	-191.33	-1628.48	5.01	69.33
4	P	20	SLE Q	-12324.60	-196.00	-1702.10	4.90	67.52
5	P	18	SLE R	-12924.70	71.24	-2016.29	4.70	67.30
5	P	20	SLE Q	-12002.70	59.01	-2125.33	4.54	65.11
6	T	18	SLE R	-12280.90	596.45	-2792.02	8.13	103.61
6	T	20	SLE Q	-11359.00	569.10	-2971.91	8.08	102.96

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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}	W _k <mm>
6	T	20	SLE Q	-11359.00	569.10	-2971.91	33.40	150.00	0.50	20.00	119.67	3.14	83.04	37.58	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	28515.30	2.50	42986.80	107541.00	1.508
2	P	5	28515.30	2.50	42986.80	107492.00	1.508
3	P	5	28515.30	2.50	42986.80	107444.00	1.508
4	P	5	28515.30	2.50	42986.80	107395.00	1.508
5	P	5	28515.30	2.50	42986.80	107347.00	1.508
6	P	5	28515.30	2.50	42986.80	107298.00	1.508

Numero del nucleo n. 421

Nodi: -25400 -25399 -10620 -29029 -627 -33006 -33005 -29031 -29136 -24938 -25724 -25723

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-18307.50	-574.64	-3962.49	-18307.50	-33268.60	-240409.00	60.615
2	P	17	SLU	-17833.10	-493.41	-3441.01	-17833.10	-33247.00	-240324.00	69.793
3	P	17	SLU	-17358.50	-412.14	-2919.30	-17358.50	-33225.50	-240235.00	82.260
4	P	17	SLU	-16884.00	-330.90	-2397.82	-1546770.00	-33204.60	-240122.00	91.611
5	P	17	SLU	-12681.90	-205.24	-1658.68	-1225020.00	-24851.40	-200184.00	96.596
6	P	17	SLU	-12554.80	-136.55	-1247.96	-1225020.00	-23208.30	-219066.00	97.573
7	P	17	SLU	-15460.50	-87.16	-833.15	-1546770.00	-30019.50	-269954.00	>100
8	P	17	SLU	-12144.50	0.85	-371.03	-1225020.00	-2379.18	-383494.00	>100
9	P	17	SLU	-11900.70	71.12	82.36	-1225020.00	30226.70	35184.40	>100
10	P	17	SLU	-9376.71	73.64	-2157.89	-9376.71	8248.51	-218364.00	>100

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	13	SND	-3401.88	-3069.01	-142775.00	-3401.88	-4958.52	-229075.00	1.604
2	P	13	SND	-3036.93	-1930.12	-140454.00	-3036.93	-4955.84	-228805.00	1.629
3	P	13	SND	-2671.83	-849.43	-138990.00	-2671.83	-3444.03	-234700.00	1.689
4	P	13	SND	-2306.89	-1069.68	-138402.00	-2306.89	-3442.20	-234492.00	1.694
5	P	1	SND	20661.90	1328.51	119607.00	20661.90	2346.77	146449.00	1.223
6	P	1	SND	20871.40	2213.13	123084.00	20871.40	3342.64	143762.00	1.167
7	P	9	SND	-1065.33	-3953.00	-144685.00	-1065.33	-7637.01	-216187.00	1.495
8	P	1	SND	20883.80	4036.22	132347.00	20883.80	4754.11	139905.00	1.057
9	P	1	SND	20065.10	4986.06	138427.00	20065.10	4762.17	140443.00	1.014
10	P	9	SND	45349.60	-4897.20	-72703.30	45349.60	-6500.90	-94092.20	1.282

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1	P	18	SLE R	-14107.00	-427.44	-2650.77	3.99	52.83
1	P	20	SLE Q	-13306.80	-357.53	-2645.36	3.67	49.15
2	P	18	SLE R	-13742.00	-367.42	-2270.99	3.64	48.53
2	P	20	SLE Q	-12941.80	-310.77	-2233.54	3.35	45.12
3	P	18	SLE R	-13376.90	-307.36	-1891.06	3.29	44.27
3	P	20	SLE Q	-12576.70	-264.00	-1821.56	3.03	41.10
4	P	18	SLE R	-13012.00	-247.34	-1511.28	2.94	40.01
4	P	20	SLE Q	-12211.80	-217.25	-1409.75	2.71	37.07
5	P	18	SLE R	-9842.13	-154.08	-1001.81	2.66	36.72
5	P	20	SLE Q	-9239.51	-139.69	-880.87	2.46	33.92
6	P	18	SLE R	-9732.16	-103.27	-702.95	2.33	32.75
6	P	20	SLE Q	-9123.18	-100.23	-549.02	2.15	30.16
7	P	18	SLE R	-11917.00	-67.23	-371.80	1.89	27.23
7	P	20	SLE Q	-11116.80	-76.96	-174.14	1.75	25.01
8	P	18	SLE R	-9398.39	-1.71	-64.48	1.62	24.28
8	P	20	SLE Q	-8786.04	-21.48	151.18	1.56	23.00
9	P	18	SLE R	-9202.95	50.22	266.64	1.78	25.64
9	P	20	SLE Q	-8586.83	18.66	513.36	1.64	24.16
10	P	18	SLE R	-7163.52	52.22	-1538.31	2.08	29.75
10	T	18	SLE R	-6828.39	76.48	-1306.52	2.00	28.19
10	P	20	SLE Q	-6498.56	23.35	-1254.94	1.73	25.11

Definizione Pareti

Liv. 1 Par. 1 dal nodo -25400 al nodo -25723
 Liv. 2 Par. 1 dal nodo -34339 al nodo -34320
 Liv. 3 Par. 1 dal nodo -34338 al nodo -34321
 Liv. 4 Par. 1 dal nodo -34337 al nodo -34322
 Liv. 5 Par. 1/1 dal nodo -34336 al nodo -25466
 Par. 1/2 dal nodo -33046 al nodo -34323
 Liv. 6 Par. 1/1 dal nodo -34335 al nodo -25467
 Par. 1/2 dal nodo -33047 al nodo -34324
 Liv. 7 Par. 1 dal nodo -34334 al nodo -34325
 Liv. 8 Par. 1/1 dal nodo -34333 al nodo -25469
 Par. 1/2 dal nodo -33049 al nodo -34326
 Liv. 9 Par. 1/1 dal nodo -34332 al nodo -25470
 Par. 1/2 dal nodo -33050 al nodo -34327
 Liv. 10 Par. 1 dal nodo -34331 al nodo -33078

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	Par.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	1	9	46168.80	2.50	69540.10	172516.00	1.506
2	P	1	9	46168.80	2.50	69540.10	172461.00	1.506
3	P	1	9	46168.80	2.50	69540.10	172405.00	1.506
4	P	1	9	46168.80	2.50	69540.10	172350.00	1.506
5	P	1/1	9	6068.76	2.50	12745.60	31528.50	2.100
5	P	1/2	9	29598.10	2.50	41511.60	102687.00	1.403
6	P	1/1	9	5560.30	2.50	12745.60	31528.50	2.292
6	P	1/2	9	30181.90	2.50	41511.60	102687.00	1.375
7	P	1	9	46168.80	2.50	69540.10	172183.00	1.506
8	P	1/1	9	4187.62	2.50	12745.60	31528.50	3.044
8	P	1/2	9	34069.40	2.50	41511.60	102687.00	1.218
9	P	1/1	1	3558.63	2.50	12745.60	31528.50	3.582
9	P	1/2	1	38622.10	2.50	41511.60	102687.00	1.075
10	T	1	13	43583.30	2.50	56440.50	139616.00	1.295

Numero del nucleo n. 437

Nodi: 3017 -30781 -30780 -30779 -30778 -14761 3026

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-9136.82	600.35	46.66	-9136.82	14718.80	1035.87	24.504
2	P	17	SLU	-8755.48	524.35	-179.61	-8755.48	14633.20	-5095.88	27.957
3	P	17	SLU	-8374.25	448.37	-405.81	-8374.25	14661.20	-13301.20	32.734
4	P	17	SLU	-7992.90	372.36	-632.09	-7992.90	14464.40	-24130.70	38.350
5	P	17	SLU	-7611.68	296.38	-858.29	-7611.68	14049.50	-41017.90	47.749
6	P	17	SLU	-7230.33	220.37	-1084.57	-7230.33	12793.20	-64674.60	59.570
7	P	17	SLU	-6849.11	144.39	-1310.77	-6849.11	8505.13	-83067.20	63.321
8	P	17	SLU	-6467.76	68.39	-1537.05	-6467.76	4437.84	-91251.90	59.380
9	P	17	SLU	-6044.24	-16.02	-1788.35	-6044.24	-1421.22	-94419.40	52.801
10	P	17	SLU	-5620.73	-100.43	-2039.65	-5620.73	-4468.83	-90820.50	44.527
11	T	17	SLU	-5066.20	-210.96	-2368.70	-5066.20	-7225.66	-85556.00	36.105

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	5	SND	6484.32	3787.29	-12741.20	6484.32	6623.67	-22151.70	1.739
2	P	5	SND	6777.67	2886.83	-14183.40	6777.67	6744.49	-33068.10	2.332
3	P	5	SND	7070.92	2010.60	-15751.20	7070.92	5620.70	-42799.60	2.718
4	P	5	SND	7364.26	1215.03	-17411.00	7364.26	3711.92	-49302.80	2.833
5	P	13	SND	6779.50	1038.21	-18869.50	6779.50	2718.79	-51851.30	2.747
6	P	13	SND	7072.85	1472.17	-20942.40	7072.85	3716.17	-49447.20	2.362
7	P	13	SND	7366.10	2188.99	-23052.90	7366.10	4261.85	-47663.80	2.066
8	P	13	SND	7659.44	2966.27	-25193.70	7659.44	5206.45	-44087.60	1.750
9	P	5	SND	8863.23	-3861.57	-26650.50	8863.23	-5995.86	-40224.40	1.510
10	P	13	SND	8311.00	4746.97	-30025.70	8311.00	6207.94	-39227.90	1.306
11	T	1	SND	8709.31	-6122.99	28308.40	8709.31	-6577.04	29779.50	1.053

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c	σ _t
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Relazione di calcolo

							<daN/cm>	<daN/cm>
1	P	18	SLE R	-7038.66	438.95	27.09	4.15	49.57
1	P	20	SLE Q	-6509.89	426.89	171.27	4.16	49.61
2	P	18	SLE R	-6745.32	383.73	-134.86	3.83	46.70
2	P	20	SLE Q	-6216.55	373.64	-3.03	3.54	42.54
3	P	18	SLE R	-6452.07	328.51	-296.76	3.58	44.56
3	P	20	SLE Q	-5923.30	320.41	-177.29	3.31	40.77
4	P	18	SLE R	-6158.72	273.29	-458.72	3.34	42.42
4	P	20	SLE Q	-5629.96	267.17	-351.59	3.09	38.92
5	P	18	SLE R	-5865.47	218.07	-620.62	3.11	40.37
5	P	20	SLE Q	-5336.70	213.94	-525.85	2.88	37.13
6	P	18	SLE R	-5572.13	162.84	-782.57	2.88	38.38
6	P	20	SLE Q	-5043.36	160.69	-700.15	2.68	35.40
7	P	18	SLE R	-5278.88	107.63	-944.48	2.66	36.42
7	P	20	SLE Q	-4750.11	107.46	-874.41	2.48	33.70
8	P	18	SLE R	-4985.53	52.40	-1106.43	2.45	34.47
8	P	20	SLE Q	-4456.77	54.21	-1048.72	2.28	32.03
9	P	18	SLE R	-4659.75	-8.93	-1286.30	2.30	33.34
9	P	20	SLE Q	-4130.99	-4.92	-1242.30	2.13	30.84
10	P	18	SLE R	-4333.97	-70.27	-1466.17	2.84	39.22
10	P	20	SLE Q	-3805.21	-64.05	-1435.89	2.71	37.38
11	T	18	SLE R	-3907.41	-150.58	-1701.68	3.83	50.27
11	T	20	SLE Q	-3378.64	-141.48	-1689.37	3.81	49.63

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	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/cm>	ε _{sm}	W _k <mm>
9	P	20	SLE Q	-4130.99	-4.92	-1242.30	33.00	168.00	0.50	16.00	123.50	2.01	72.25	2.18	0.00	0.00
10	P	20	SLE Q	-3805.21	-64.05	-1435.89	33.00	168.00	0.50	16.00	129.10	2.01	79.29	13.01	0.00	0.00
10	P	19	SLE F	-3912.67	-65.77	-1438.90	33.00	168.00	0.50	16.00	125.07	2.01	74.23	12.33	0.00	0.00
11	T	20	SLE Q	-3378.64	-141.48	-1689.37	33.00	218.00	0.50	16.00	230.41	4.02	177.67	36.94	0.01	0.00
11	T	19	SLE F	-3486.10	-143.96	-1687.35	33.00	218.00	0.50	16.00	222.72	4.02	169.49	35.38	0.01	0.00

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1	P	13	7347.12	2.50	43045.80	106482.00	5.859
2	P	13	7347.12	2.50	43045.80	106482.00	5.859
3	P	13	7347.12	2.50	43045.80	106482.00	5.859
4	P	13	7347.12	2.50	43045.80	106482.00	5.859
5	P	13	7347.12	2.50	43045.80	106482.00	5.859
6	P	13	7347.12	2.50	43045.80	106482.00	5.859
7	P	13	7347.12	2.50	43045.80	106482.00	5.859
8	P	13	7347.12	2.50	43045.80	106482.00	5.859
9	P	13	7347.12	2.50	43045.80	106482.00	5.859
10	P	13	7347.12	2.50	43045.80	106482.00	5.859
11	T	13	7347.12	2.50	43045.80	106482.00	5.859

Numero del nucleo n. 438

Nodi: -35800 -29337 -31560 -31559 -31558 -31557 -31556 3034

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm>	Fctk <daN/cm>	Fcd <daN/cm>	Fctd <daN/cm>	TP	Fyk <daN/cm>	Fyd <daN/cm>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-12255.90	268.91	-321.56	-12255.90	12485.70	-14900.90	46.377
2	P	17	SLU	-11032.20	245.28	-769.68	-11032.20	10294.30	-31944.50	41.547
3	P	17	SLU	-10158.20	125.85	100.69	-781098.00	10647.10	8655.37	76.893
4	P	17	SLU	-10824.90	6.72	994.62	-914417.00	1147.21	92369.80	84.474
5	P	17	SLU	-8233.61	-65.23	1866.65	-8233.61	-1847.35	65742.80	35.212
6	T	17	SLU	-5469.76	-307.83	4984.77	-5469.76	-3761.67	61829.00	12.403

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	13	SND	-2991.02	4577.29	-15887.30	-2991.02	5496.95	-19246.60	1.211
2	P	13	SND	-2842.96	2956.92	-12321.90	-2842.96	4988.43	-20314.70	1.651
3	P	5	SND	815.62	-1750.09	-15142.30	815.62	-3913.54	-32838.50	2.170
4	P	13	SND	-1890.21	1231.78	24960.70	-1890.21	2359.32	51795.40	2.075
5	P	13	SND	1875.23	1116.28	14755.00	1875.23	2654.03	35471.00	2.402
6	T	5	SND	15296.30	-2841.04	7787.67	15296.30	-3521.00	10037.70	1.278

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_s <daN/cm ² >
1	P	18	SLE R	-9219.96	206.31	-239.33	3.16	42.26
1	P	20	SLE Q	-8891.39	170.20	-229.85	2.91	39.31
2	P	18	SLE R	-8269.56	183.37	-543.13	3.68	49.03
2	P	20	SLE Q	-7951.73	153.45	-544.30	3.43	46.11
3	P	18	SLE R	-7633.68	94.36	96.61	2.54	35.33
3	P	20	SLE Q	-7304.85	70.14	62.54	2.28	32.21
4	P	18	SLE R	-8119.15	5.62	783.79	2.33	34.42
4	P	20	SLE Q	-7790.57	-15.72	666.06	2.23	32.64
5	P	18	SLE R	-6205.34	-50.46	1418.98	3.26	46.28
5	P	20	SLE Q	-5864.05	-65.13	1310.32	3.16	44.35
6	T	18	SLE R	-4151.38	-233.37	3741.14	10.30	203.58
6	T	20	SLE Q	-3788.37	-236.83	3576.38	10.11	205.35

Stato limite d'esercizio - Verifiche a fessurazione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K ₂	Φ_{eq}	Δ_{sm} <mm>	A _s <cm ² >	A _{c eff} <cm ² >	σ_s <daN/cm ² >	ϵ_{sm}	W _k <mm>
6	T	20	SLE Q	-3788.37	-236.83	3576.38	33.00	300.00	0.50	16.00	411.21	4.02	303.74	205.35	0.06	0.04
6	T	19	SLE F	-3861.69	-236.47	3608.72	33.00	300.00	0.50	16.00	412.12	4.02	302.83	204.96	0.06	0.04

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	13694.50	2.50	49241.60	122161.00	3.596
2	P	1	12313.80	2.50	41865.70	103563.00	3.400
3	P	5	12891.00	2.50	41865.70	103563.00	3.248
4	P	5	13694.50	2.50	49241.60	121994.00	3.596
5	P	1	12090.60	2.50	41865.70	103563.00	3.463
6	P	5	12015.20	2.50	41865.70	103563.00	3.484

Numero del nucleo n. 439

Nodi: 3084 -25143 -25142 -24942 -25117 3086

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm ² >	Fctk <daN/cm ² >	Fcd <daN/cm ² >	Fctd <daN/cm ² >	Tp	Fyk <daN/cm ² >	Fyd <daN/cm ² >
25.00	4.30	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1	P	17	SLU	-27714.10	-1095.43	-2292.23	-27714.10	-23672.40	-49150.40	21.474
2	P	17	SLU	-27516.40	-839.75	-1775.37	-27516.40	-23662.90	-49143.40	27.772
3	P	17	SLU	-27318.80	-584.19	-1258.75	-787817.00	-23369.00	-50705.40	28.838
4	P	17	SLU	-27121.10	-328.51	-741.89	-787817.00	-23048.20	-52326.00	29.048
5	P	17	SLU	-26923.40	-72.84	-225.03	-787817.00	-20594.10	-63597.60	29.261
6	P	17	SLU	-26725.70	182.84	291.82	-787817.00	24945.90	39977.70	29.478
7	P	17	SLU	-26528.10	438.40	808.45	-787817.00	24439.60	44226.00	29.698

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1	P	9	SND	-5188.46	-3410.47	-56622.80	-5188.46	-4255.96	-64119.80	1.133
2	P	13	SND	-5011.63	-2741.20	-47457.90	-5011.63	-4254.72	-64092.10	1.351
3	P	1	SND	-4800.57	-2368.40	38733.30	-4800.57	-4253.12	64036.50	1.654
4	P	9	SND	-4732.30	-1271.14	-32036.60	-4732.30	-3016.93	-66618.10	2.080
5	P	9	SND	-4580.22	-559.73	-23852.90	-4580.22	-2090.05	-68546.10	2.874
6	P	1	SND	-4344.35	192.05	16202.50	-4344.35	1342.48	70156.10	4.330
7	P	1	SND	-4192.34	1003.58	8803.57	-4192.34	6494.17	58871.70	6.685

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_s <daN/cm ² >
1	P	18	SLE R	-20685.60	-864.69	-1650.62	12.97	165.24
1	P	20	SLE Q	-18785.30	-740.62	-1416.86	11.36	145.49
2	P	18	SLE R	-20533.50	-664.73	-1275.08	11.14	144.79
2	P	20	SLE Q	-18633.20	-571.65	-1082.38	9.81	128.09
3	P	18	SLE R	-20381.50	-464.87	-899.72	9.39	125.26
3	P	20	SLE Q	-18481.20	-402.76	-748.04	8.31	111.17
4	P	18	SLE R	-20229.40	-264.92	-524.19	7.64	105.73
4	P	20	SLE Q	-18329.10	-233.79	-413.56	6.80	94.23
5	P	18	SLE R	-20077.30	-64.96	-148.66	5.89	86.20

Relazione di calcolo

5P	20	SLE Q	-18177.10	-64.83	-79.07	5.29	77.30
6P	18	SLE R	-19925.30	134.99	226.87	6.38	91.18
6P	20	SLE Q	-18025.00	104.14	255.41	5.73	82.43
7T	18	SLE R	-19653.40	492.41	898.13	9.36	123.94
7T	20	SLE Q	-17753.10	406.17	853.31	8.28	110.55

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	9	37098.10	2.50	37422.40	77916.40	1.009	
2P	9	37098.10	2.50	37422.40	77893.70	1.009	
3P	9	37098.10	2.50	37422.40	77871.10	1.009	
4P	9	37098.10	2.50	37422.40	77848.40	1.009	
5P	9	37098.10	2.50	37422.40	77825.70	1.009	
6P	9	37098.10	2.50	37422.40	77803.00	1.009	
7T	9	37098.10	2.50	37422.40	77762.50	1.009	

Numero del nucleo n. 440

Nodi: -35836 -29597 -31062 -31061 -31060 -31059 -31058 3033

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cm²>	Fctk <daN/cm²>	Fcd <daN/cm²>	Fctd <daN/cm²>	Tp	Fyk <daN/cm²>	Fyd <daN/cm²>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU	-17562.00	-280.69	70.74	-961623.00	-16896.10	4261.51	54.756	
2P	17	SLU	-17127.20	-252.02	89.61	-961622.00	-16926.70	5951.91	56.146	
3P	17	SLU	-14580.40	-217.14	-194.13	-812569.00	-13886.70	-12344.50	55.730	
4P	17	SLU	-14023.60	-180.85	-0.36	-812569.00	-13679.80	33.19	57.943	
5P	17	SLU	-13596.10	-150.53	71.92	-812569.00	-13700.20	6620.88	59.765	
6P	17	SLU	-13226.50	-123.54	90.71	-812569.00	-13677.90	10093.40	61.435	
7P	17	SLU	-2112.29	-11.13	3.33	-149054.00	-3152.63	933.66	70.565	
8P	17	SLU	-12841.70	-97.54	117.59	-812569.00	-13535.20	16254.70	63.276	
9P	17	SLU	-14519.20	-79.99	203.08	-961623.00	-16430.40	42585.00	66.231	
10P	17	SLU	-11507.70	-41.28	591.55	-812569.00	-5264.56	73980.70	70.611	
11P	17	SLU	-13553.60	-16.30	245.08	-961623.00	-7489.32	114581.00	70.950	
12T	17	SLU	-8599.87	35.86	2657.14	-8599.87	1439.33	77243.30	29.073	

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	5	SND	-6204.20	-2697.63	-27711.30	-6204.20	-6440.69	-63028.00	2.276	
2P	5	SND	-5869.79	-2145.67	-28739.60	-5869.79	-5503.09	-66754.70	2.324	
3P	13	SND	5122.43	1211.35	18820.40	5122.43	2687.89	40021.00	2.109	
4P	13	SND	6585.38	1028.13	19277.80	6585.38	2001.78	40564.50	2.082	
5P	13	SND	7718.59	1120.33	19967.30	7718.59	1979.64	39957.00	1.978	
6P	13	SND	8699.08	1442.21	20758.60	8699.08	2631.01	38243.80	1.822	
7P	5	SND	13871.20	257.22	-79.96	13871.20	763.24	-612.27	3.130	
8P	5	SND	8969.57	-1994.00	21573.50	8969.57	-3465.07	36345.00	1.669	
9P	5	SND	-3863.64	-2840.37	36859.60	-3863.64	-5452.63	65707.40	1.783	
10P	5	SND	11544.20	-3020.73	23839.00	11544.20	-4083.26	33182.30	1.380	
11P	13	SND	-2433.28	4097.09	-40716.20	-2433.28	6310.61	-61161.80	1.503	
12T	5	SND	20340.60	-4306.83	21761.00	20340.60	-4734.15	23764.20	1.088	

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cm²>	σ _t <daN/cm²>
1P	18	SLE R	-13147.50	-195.81	44.82	3.65	50.17	
1P	20	SLE Q	-12438.80	-152.85	195.26	3.41	47.46	
2P	18	SLE R	-12813.10	-175.68	70.10	3.50	48.46	
2P	20	SLE Q	-12104.40	-137.85	183.37	3.26	45.61	
3P	18	SLE R	-10900.20	-151.98	-130.27	3.69	50.82	
3P	20	SLE Q	-10304.60	-122.35	-62.24	3.31	46.04	
4P	18	SLE R	-10487.30	-126.22	15.49	3.30	45.92	
4P	20	SLE Q	-9886.51	-101.79	50.00	2.98	41.86	
5P	18	SLE R	-10166.60	-104.79	74.50	3.05	42.84	
5P	20	SLE Q	-9553.46	-85.12	82.26	2.80	39.68	
6P	18	SLE R	-9887.39	-85.78	95.32	2.90	41.07	
6P	20	SLE Q	-9258.51	-70.65	79.37	2.65	37.78	
7P	18	SLE R	-1544.86	-7.53	2.36	2.46	34.63	
7P	20	SLE Q	-1480.27	-6.03	3.01	2.35	33.00	
8P	18	SLE R	-9596.52	-67.47	122.45	2.75	39.39	
8P	20	SLE Q	-8952.41	-56.80	82.64	2.50	35.96	

Relazione di calcolo

9P	18	SLE R	-10807.00	-54.86	221.94	2.63	38.06
9P	20	SLE Q	-10098.30	-47.83	112.25	2.37	34.45
10P	18	SLE R	-8600.57	-27.87	485.35	2.65	38.61
10P	20	SLE Q	-7943.65	-26.54	379.45	2.38	34.76
11P	18	SLE R	-10064.20	-10.13	278.16	2.31	34.21
11P	20	SLE Q	-9355.49	-14.50	85.92	2.05	30.32
12T	18	SLE R	-6452.86	26.14	2009.25	3.67	52.54
12T	20	SLE Q	-5826.75	16.10	1776.64	3.22	46.32

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	13		6828.66	2.50	49241.60	122644.00	7.211
2P	13		6828.66	2.50	49241.60	122593.00	7.211
3P	5		6242.25	2.50	41865.70	103563.00	6.707
4P	13		6380.95	2.50	41865.70	103563.00	6.561
5P	13		6436.33	2.50	41865.70	103563.00	6.505
6P	13		6454.05	2.50	41865.70	103563.00	6.487
7P	13		382.50	2.50	6166.26	15253.40	16.121
8P	13		6447.28	2.50	41865.70	103563.00	6.494
9P	13		6828.66	2.50	49241.60	122289.00	7.211
10P	5		6068.63	2.50	41865.70	103563.00	6.899
11P	13		6828.66	2.50	49241.60	122177.00	7.211
12P	5		4890.98	2.50	41865.70	103563.00	8.560

Numero del nucleo n. 513

Nodi: -37492 -37500 -37499 -37498 -37497 -37496 -37495 -37494 -37493 -36538

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
20.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-5138.27	-14.56	-1197.01	-5138.27	-2019.44	-110415.00	92.251
2P	17	SLU		-4217.21	-18.85	-1188.40	-4217.21	-2017.25	-109749.00	92.354

Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'ydz <daNm>	Sic.
1P	13	SND		40653.80	790.57	25399.10	40653.80	1457.70	39224.40	1.545
2T	13	SND		34821.40	1404.64	-12332.10	34821.40	2991.66	-24444.10	1.984

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ _c <daN/cmq>	σ _f <daN/cmq>
1P	18	SLE R		-3790.18	-11.30	-834.91	1.51	21.82
1P	20	SLE Q		-3300.83	-12.04	-635.80	1.27	18.24
2P	18	SLE R		-3097.61	-15.72	-818.48	1.37	19.55
2P	20	SLE Q		-2618.79	-19.08	-590.91	1.13	15.89

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Sic.
1P	5		39765.70	2.50	56322.50	111459.00	1.416
2T	5		47364.40	2.50	56322.50	111459.00	1.189

Numero del nucleo n. 514

Nodi: -26193 -26210 -26165 -26182 -26137 -26154 -26127

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
25.00	4.10	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Sic.
1P	17	SLU		-15689.50	-142.71	-491.85	-596040.00	-8321.05	-28951.50	37.990
2P	17	SLU		-15482.40	156.02	-514.31	-596040.00	8459.73	-27663.30	38.498
3P	17	SLU		-15275.40	454.61	-536.76	-15275.40	9299.33	-10869.80	20.337

Relazione di calcolo

4	T	17	SLU	-14852.00	1065.35	-582.72	-14852.00	9308.25	-5181.02	8.773
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Stato limite elastico - Verifiche a flessione/pressoflessione

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	M'ydy <daNm>	M'yz <daNm>	Sic.
1	P	9	SND	2899.43	-960.51	-12239.80	2899.43	-1828.35	-21822.10	1.784
2	P	9	SND	3058.72	-810.44	-11423.40	3058.72	-1542.22	-22137.00	1.938
3	P	9	SND	3217.95	1018.09	-10646.90	3217.95	2103.04	-21216.60	1.993
4	P	9	SND	3377.24	1256.75	-9918.40	3377.24	2632.16	-20030.40	2.021

Stato limite d'esercizio - Verifiche tensionali

Liv.	Pos.	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	σ_c <daN/cm ² >	σ_f <daN/cm ² >
1	P	18	SLE R	-11871.20	-103.97	-391.11	5.37	75.84
1	P	20	SLE Q	-10733.70	-106.50	-308.44	4.87	68.43
2	P	18	SLE R	-11711.90	113.74	-401.09	5.41	76.05
2	P	20	SLE Q	-10574.40	81.81	-315.37	4.64	65.92
3	P	18	SLE R	-11552.60	331.35	-411.06	7.03	92.22
3	P	20	SLE Q	-10415.20	270.05	-322.31	6.03	79.76
4	T	18	SLE R	-11227.00	776.44	-431.48	11.25	132.89
4	T	20	SLE Q	-10089.50	655.05	-336.51	9.46	112.98

Stato limite ultimo - Verifiche a taglio

Liv.	Pos.	CC	Vsdu <daN>	ctg θ	VRsd <daN>	VRcd <daN>	Sic.
1	P	5	4870.91	2.50	31244.30	77401.40	6.414
2	P	5	4870.91	2.50	31244.30	77377.60	6.414
3	P	5	4870.91	2.50	31244.30	77353.80	6.414
4	T	5	4870.91	2.50	31244.30	77305.20	6.414

Verifiche e armature solette/platee

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
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
Nodo	=Numero del nodo
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
	SND = Stato limite di salvaguardia della vita (non dissipativo)
TP	=Tipo di acciaio
VRcd	=Taglio ultimo lato calcestruzzo
VRsd	=Taglio ultimo lato armatura

Relazione di calcolo

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
c =Ricoprimento dell'armatura
ctgθ =Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s =Distanza massima tra le barre

Armatura soletta a quota 9.99

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>		<daN/cm²>	<daN/cm²>
28.00	3.00	3.00	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	My	MRdy	Sic.
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daNm>	
-21480	12.24	4.43	XX	17	SLU	5.65	5.65	957.48	5578.35	5.826
-21483	12.00	4.64	YY	17	SLU	5.65	5.65	242.16	5578.35	23.036

Stato limite elastico - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	My	M'ydy	Sic.
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daNm>	
-21478	11.76	4.43	XX	1	SND	5.65	5.65	1489.12	5130.46	3.445
-21470	12.72	4.21	YY	5	SND	5.65	5.65	1067.48	5130.46	4.806

Stato limite ultimo - Verifiche a taglio

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	AfE St.	VsdU	ctgθ	VRcd	VRsd	Vrdu	Sic.
	<m>	<m>				<cmq>	<cmq>	<cmq/m>	<daN>		<daN>	<daN>	<daN>	
-21476	12.00	4.86	XX	17	SLU	5.65	5.65		1991.25				13146.00	6.602
-21476	12.00	4.86	XX	13	SND	5.65	5.65		6105.33				13146.00	2.153
-21481	12.48	4.43	YY	17	SLU	5.65	5.65		616.72				13146.00	21.316
-21482	12.72	4.43	YY	5	SND	5.65	5.65		2172.91				13146.00	6.050

Stato limite d'esercizio - Verifiche tensionali

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	Mom	σ _c	σ _f
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daN/cm²>	<daN/cm²>
-21480	12.24	4.43	XX	18	SLE R	5.65	5.65	695.37	9.80	533.42
-21480	12.24	4.43	XX	20	SLE Q	5.65	5.65	626.67	8.83	480.73
-21483	12.00	4.64	YY	18	SLE R	5.65	5.65	175.60	2.47	134.71
-21483	12.00	4.64	YY	20	SLE Q	5.65	5.65	158.36	2.23	121.48

Stato limite d'esercizio - Verifiche a fessurazione

Nodo	X	Y	DV	CC	TCC	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c eff}	σ _s	ε _{sm}	Wk
	<m>	<m>				<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cm²>		<mm>
-21480	12.24	4.43	XX	20	SLE Q	24.00	200.00	0.50	12.00	180.63	6.79	750.00	480.73	0.14	0.04
-21480	12.24	4.43	XX	19	SLE F	24.00	200.00	0.50	12.00	180.63	6.79	750.00	494.02	0.14	0.04
-21483	12.00	4.64	YY	20	SLE Q	24.00	200.00	0.50	12.00	180.63	6.79	750.00	121.48	0.04	0.01
-21483	12.00	4.64	YY	19	SLE F	24.00	200.00	0.50	12.00	180.63	6.79	750.00	124.50	0.04	0.01

Armatura soletta a quota 2.27

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>		<daN/cm²>	<daN/cm²>
20.00	3.00	3.00	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	My	MRdy	Sic.
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daNm>	
-465	14.12	0.00	XX	17	SLU	10.05	10.05	-2441.51	-6292.05	2.577
-8263	12.33	0.00	XX	17	SLU	10.05	10.05	1627.20	6292.05	3.867
-15737	14.12	0.50	YY	17	SLU	10.05	10.05	-267.19	-6292.05	23.549

Stato limite elastico - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	My	M'ydy	Sic.
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daNm>	
-8297	11.01	0.00	XX	9	SND	10.05	10.05	-3918.26	-5916.66	1.510
-465	14.12	0.00	XX	5	SND	10.05	10.05	-5804.46	-5916.66	1.019
-14205	10.60	1.00	YY	13	SND	10.05	10.05	-457.19	-5916.66	12.941
-14207	10.60	0.50	YY	13	SND	10.05	10.05	-547.79	-5916.66	10.801

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.
-458	10.60	0.00	XX	17	SLU	10.05	10.05		8517.53				11006.60	1.292
-465	14.12	0.00	XX	5	SND	10.05	10.05		8620.67				11006.60	1.277
-14207	10.60	0.50	YY	17	SLU	10.05	10.05		1412.00				11006.60	7.795
-473	14.12	1.50	YY	5	SND	10.05	10.05		4631.02				11006.60	2.377

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/cm²>	σ _f <daN/cm²>
-465	14.12	0.00	XX	18	SLE R	10.05	10.05	-1677.98	33.78	1113.88
-465	14.12	0.00	XX	20	SLE Q	10.05	10.05	-1556.52	31.34	1033.25
-8263	12.33	0.00	XX	18	SLE R	10.05	10.05	1123.67	22.62	745.91
-8263	12.33	0.00	XX	20	SLE Q	10.05	10.05	1031.98	20.78	685.05
-15737	14.12	0.50	YY	18	SLE R	10.05	10.05	-182.95	3.68	121.45
-15737	14.12	0.50	YY	20	SLE Q	10.05	10.05	-170.22	3.43	113.00

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/cm²>	ε _{sm}	W _k <mm>
-465	14.12	0.00	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	1033.25	0.30	0.06
-465	14.12	0.00	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	1053.52	0.31	0.06
-8263	12.33	0.00	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	685.05	0.20	0.04
-8263	12.33	0.00	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	700.30	0.20	0.04
-15737	14.12	0.50	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	113.00	0.03	0.01
-15737	14.12	0.50	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	115.12	0.03	0.01

Armatura soletta a quota 5.44

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	TP	Fyk	Fyd
<cm>	<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>		<daN/cm²>	<daN/cm²>
20.00	3.00	3.00	C32/40	332.00	21.69	188.13	14.46	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.
-529	14.12	0.00	XX	17	SLU	13.40	13.40	-2490.33	-8151.89	3.273
-8487	12.33	0.00	XX	17	SLU	13.40	13.40	1706.73	8151.89	4.776
-16014	14.12	0.50	YY	17	SLU	13.40	13.40	-280.19	-8151.89	29.094

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.
-14484	10.60	0.50	XX	9	SND	13.40	13.40	-7048.99	-7774.14	1.103
-529	14.12	0.00	XX	5	SND	13.40	13.40	-7690.84	-7774.14	1.011
-14482	10.60	1.00	YY	13	SND	13.40	13.40	-588.94	-7774.14	13.200
-16014	14.12	0.50	YY	1	SND	13.40	13.40	-724.85	-7774.14	10.725

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.
-522	10.60	0.00	XX	17	SLU	13.40	13.40		8727.83				12114.30	1.388
-529	14.12	0.00	XX	5	SND	13.40	13.40		9839.65				12114.30	1.231
-14484	10.60	0.50	YY	17	SLU	13.40	13.40		1470.25				12114.30	8.240
-537	14.12	1.50	YY	5	SND	13.40	13.40		4834.40				12114.30	2.506

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/cm²>	σ _f <daN/cm²>
-529	14.12	0.00	XX	18	SLE R	13.40	13.40	-1708.82	29.80	861.53
-529	14.12	0.00	XX	20	SLE Q	13.40	13.40	-1584.14	27.62	798.67
-8487	12.33	0.00	XX	18	SLE R	13.40	13.40	1179.13	20.56	594.48
-8487	12.33	0.00	XX	20	SLE Q	13.40	13.40	1086.39	18.94	547.72
-16014	14.12	0.50	YY	18	SLE R	13.40	13.40	-191.79	3.34	96.69
-16014	14.12	0.50	YY	20	SLE Q	13.40	13.40	-179.26	3.13	90.38

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/cm²>	ε _{sm}	W _k <mm>
-529	14.12	0.00	XX	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	798.67	0.23	0.04
-529	14.12	0.00	XX	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	814.51	0.24	0.04

-8487	12.33	0.00	XX	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	547.72	0.16	0.03
-8487	12.33	0.00	XX	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	559.43	0.16	0.03
-16014	14.12	0.50	YY	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	90.38	0.03	0.00
-16014	14.12	0.50	YY	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	91.97	0.03	0.00

Armatura soletta Tetto sx.2**Caratteristiche delle sezioni e dei materiali utilizzati**

Spess.	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>		<daN/cm²>	<daN/cm²>
20.00	3.00	3.00	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	My	MRdy	Sic.
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daNm>	
-19740	10.60	-0.69	XX	17	SLU	5.65	5.65	135.55	3808.13	28.094
3087	10.60	14.06	XX	17	SLU	5.65	5.65	-1120.20	-3808.13	3.400
3098	5.56	0.00	XX	17	SLU	5.65	5.65	-524.08	-3808.13	7.266
-19871	6.01	14.75	XX	17	SLU	5.65	5.65	69.24	3808.13	54.996
-19738	5.56	-0.23	YY	17	SLU	5.65	5.65	-108.01	-3808.13	35.258
-19878	10.60	14.29	YY	17	SLU	5.65	5.65	264.89	3808.13	14.376
-19874	5.79	14.29	YY	17	SLU	5.65	5.65	-239.28	-3808.13	15.915
-19808	9.23	-0.23	YY	17	SLU	5.65	5.65	24.49	3808.13	>100

Stato limite elastico - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	My	M'ydy	Sic.
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daNm>	
3017	10.60	0.00	XX	5	SND	5.65	5.65	-3440.80	-3424.32	0.995
3087	10.60	14.06	XX	9	SND	5.65	5.65	-1961.24	-3424.32	1.746
-19742	10.60	-0.23	YY	1	SND	5.65	5.65	-823.11	-3424.32	4.160
-19878	10.60	14.29	YY	9	SND	5.65	5.65	330.48	3424.32	10.361
-19874	5.79	14.29	YY	1	SND	5.65	5.65	-342.62	-3424.32	9.995

Stato limite ultimo - Verifiche a taglio

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	AfE St.	Vsdu	ctgθ	VRcd	VRsd	Vrdu	Sic.
	<m>	<m>				<cmq>	<cmq>	<cmq/m>	<daN>		<daN>	<daN>	<daN>	
-19742	10.60	-0.23	XX	17	SLU	5.65	5.65	20.11	2955.82	2.50	49628.30	30093.70	30093.70	10.181
-19742	10.60	-0.23	XX	13	SND	5.65	5.65	20.11	17585.10	2.50	49628.30	30093.70	30093.70	1.711
-19878	10.60	14.29	XX	17	SLU	5.65	5.65	20.11	4013.20	2.50	49628.30	30093.70	30093.70	7.499
-19878	10.60	14.29	XX	9	SND	5.65	5.65	20.11	11504.50	2.50	49628.30	30093.70	30093.70	2.616
-19240	5.56	14.29	XX	17	SLU	5.65	5.65		2908.32				9696.86	3.334
-19874	5.79	14.29	XX	1	SND	5.65	5.65		3488.69				9696.86	2.780
-19738	5.56	-0.23	XX	17	SLU	5.65	5.65		1814.19				9696.86	5.345
-19738	5.56	-0.23	XX	5	SND	5.65	5.65		3129.88				9696.86	3.098
-19741	10.60	-0.46	YY	17	SLU	5.65	5.65	20.11	506.09	2.50	49628.30	30093.70	30093.70	59.464
-19742	10.60	-0.23	YY	9	SND	5.65	5.65	20.11	6266.95	2.50	49628.30	30093.70	30093.70	4.802
-19878	10.60	14.29	YY	17	SLU	5.65	5.65	20.11	1129.49	2.50	49628.30	30093.70	30093.70	26.644
-19878	10.60	14.29	YY	9	SND	5.65	5.65	20.11	2680.96	2.50	49628.30	30093.70	30093.70	11.225
-19241	5.56	14.52	YY	17	SLU	5.65	5.65		1017.04				9696.86	9.534
-19241	5.56	14.52	YY	13	SND	5.65	5.65		1004.73				9696.86	9.651
-19738	5.56	-0.23	YY	17	SLU	5.65	5.65		757.84				9696.86	12.795
-19738	5.56	-0.23	YY	5	SND	5.65	5.65		1944.83				9696.86	4.986

Stato limite d'esercizio - Verifiche tensionali

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	Mom	σ _c	σ _f
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daN/cm²>	<daN/cm²>
-19740	10.60	-0.69	XX	18	SLE R	5.65	5.65	99.78	2.65	114.75
-19740	10.60	-0.69	XX	20	SLE Q	5.65	5.65	92.97	2.47	106.93
3087	10.60	14.06	XX	18	SLE R	5.65	5.65	-809.21	21.47	930.68
3087	10.60	14.06	XX	20	SLE Q	5.65	5.65	-705.01	18.71	810.84
3098	5.56	0.00	XX	18	SLE R	5.65	5.65	-389.14	10.32	447.55
3098	5.56	0.00	XX	20	SLE Q	5.65	5.65	-345.78	9.17	397.69
-19871	6.01	14.75	XX	18	SLE R	5.65	5.65	51.86	1.38	59.65
-19871	6.01	14.75	XX	20	SLE Q	5.65	5.65	50.53	1.34	58.12
-19738	5.56	-0.23	YY	18	SLE R	5.65	5.65	-82.38	2.19	94.75
-19738	5.56	-0.23	YY	20	SLE Q	5.65	5.65	-73.67	1.95	84.73
-19878	10.60	14.29	YY	18	SLE R	5.65	5.65	191.16	5.07	219.85
-19878	10.60	14.29	YY	20	SLE Q	5.65	5.65	179.95	4.77	206.97
-19874	5.79	14.29	YY	18	SLE R	5.65	5.65	-177.99	4.72	204.71
-19874	5.79	14.29	YY	20	SLE Q	5.65	5.65	-163.79	4.35	188.38
-19808	9.23	-0.23	YY	18	SLE R	5.65	5.65	18.48	0.49	21.26
-19804	9.45	-0.23	YY	20	SLE Q	5.65	5.65	17.18	0.46	19.76

Stato limite d'esercizio - Verifiche a fessurazione

Nodo	X	Y	DV	CC	TCC	c	s	K ₂	Φ _{eq}	Δ _{sm}	A _s	A _{c off}	σ _s	ε _{sm}	W _k
	<m>	<m>				<mm>	<mm>			<mm>	<cmq>	<cmq>	<daN/cm²>		<mm>

Relazione di calcolo

-19740	10.60	-0.69	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	106.93	0.03	0.01
-19740	10.60	-0.69	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	108.75	0.03	0.01
3087	10.60	14.06	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	810.84	0.24	0.06
3087	10.60	14.06	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	834.90	0.24	0.06
3098	5.56	0.00	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	397.69	0.12	0.03
3098	5.56	0.00	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	409.08	0.12	0.03
-19871	6.01	14.75	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	58.12	0.02	0.00
-19871	6.01	14.75	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	58.44	0.02	0.00
-19738	5.56	-0.23	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	84.73	0.02	0.01
-19738	5.56	-0.23	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	86.80	0.03	0.01
-19878	10.60	14.29	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	206.97	0.06	0.01
-19878	10.60	14.29	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	209.52	0.06	0.01
-19874	5.79	14.29	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	188.38	0.05	0.01
-19874	5.79	14.29	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	191.87	0.06	0.01
-19804	9.45	-0.23	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	19.76	0.01	0.00
-19804	9.45	-0.23	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	20.06	0.01	0.00

Armatura soletta Tetto sx.1

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>
20.00	3.00	3.00	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	MRdy <daNm>	Sic.
-19285	0.00	11.44	XX	17	SLU	10.05	10.05	309.98	6292.05	20.299
-13002	0.00	9.77	XX	17	SLU	10.05	10.05	-499.58	-6292.05	12.595
-19106	4.91	14.75	XX	17	SLU	10.05	10.05	67.50	6292.05	93.209
3098	5.56	0.00	XX	17	SLU	10.05	10.05	-614.64	-6292.05	10.237
3102	5.56	14.06	XX	17	SLU	10.05	10.05	-824.87	-6292.05	7.628
-19733	5.17	-0.69	XX	17	SLU	10.05	10.05	58.32	6292.05	>100
3068	0.00	10.01	YY	17	SLU	10.05	10.05	-582.29	-6292.05	10.806
-19457	0.00	5.84	YY	17	SLU	10.05	10.05	257.92	6292.05	24.396
-19179	3.04	14.29	YY	17	SLU	10.05	10.05	28.87	6292.05	>100
-19241	5.56	14.52	YY	17	SLU	10.05	10.05	-194.37	-6292.05	32.371
-19738	5.56	-0.23	YY	17	SLU	10.05	10.05	-355.18	-6292.05	17.715
-19703	3.53	-0.23	YY	17	SLU	10.05	10.05	28.93	6292.05	>100

Stato limite elastico - Verifiche a flessione/presoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
-13325	0.00	3.00	XX	9	SND	10.05	10.05	4970.67	5916.66	1.190
-19454	0.00	5.03	XX	9	SND	10.05	10.05	-5295.04	-5916.66	1.117
3083	0.00	14.06	XX	1	SND	10.05	10.05	-2229.80	-5916.66	2.653
3001	0.00	0.00	XX	1	SND	10.05	10.05	-1311.87	-5916.66	4.510
-13325	0.00	3.00	YY	5	SND	10.05	10.05	-4072.88	-5916.66	1.453
-13326	0.00	2.75	YY	5	SND	10.05	10.05	-4073.19	-5916.66	1.453
-19083	0.00	14.29	YY	1	SND	10.05	10.05	-738.23	-5916.66	8.015
-19582	0.00	-0.23	YY	9	SND	10.05	10.05	-2916.68	-5916.66	2.029

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.
-19339	-0.69	10.26	XX	17	SLU	10.05	10.05		1012.96				11006.60	10.866
-19468	-0.69	5.84	XX	9	SND	10.05	10.05		7204.38				11006.60	1.528
-19240	5.56	14.29	XX	17	SLU	10.05	10.05		2681.91				11006.60	4.104
-19083	0.00	14.29	XX	1	SND	10.05	10.05		5613.73				11006.60	1.961
-19582	0.00	-0.23	XX	17	SLU	10.05	10.05	30.16	821.80	2.50	49628.30	45140.60	45140.60	54.929
-19647	0.24	-0.23	XX	9	SND	10.05	10.05	30.16	5718.88	2.50	49628.30	45140.60	45140.60	7.893
-19738	5.56	-0.23	XX	17	SLU	10.05	10.05		2854.08				11006.60	3.856
-19738	5.56	-0.23	XX	5	SND	10.05	10.05		4332.86				11006.60	2.540
-19337	0.00	10.26	XX	17	SLU	10.05	10.05	30.16	3579.31	2.50	49628.30	45140.60	45140.60	12.611
3058	0.00	9.16	XX	1	SND	10.05	10.05	30.16	15908.30	2.50	49628.30	45140.60	45140.60	2.838
-19235	-0.23	14.29	YY	17	SLU	10.05	10.05		392.73				11006.60	28.026
-19235	-0.23	14.29	YY	1	SND	10.05	10.05		4583.13				11006.60	2.402
-19241	5.56	14.52	YY	17	SLU	10.05	10.05		794.95				11006.60	13.846
-19083	0.00	14.29	YY	1	SND	10.05	10.05		3851.46				11006.60	2.858
-19582	0.00	-0.23	YY	17	SLU	10.05	10.05	30.16	372.88	2.50	49628.30	45140.60	45140.60	>100
-19582	0.00	-0.23	YY	1	SND	10.05	10.05	30.16	16371.00	2.50	49628.30	45140.60	45140.60	2.757
-19737	5.56	-0.46	YY	17	SLU	10.05	10.05		1173.04				11006.60	9.383
-19580	0.00	-0.69	YY	1	SND	10.05	10.05		3494.24				11006.60	3.150
3068	0.00	10.01	YY	17	SLU	10.05	10.05	30.16	4671.25	2.50	49628.30	45140.60	45140.60	9.663
-19382	0.00	6.79	YY	5	SND	10.05	10.05	30.16	36896.00	2.50	49628.30	45140.60	45140.60	1.223

Stato limite d'esercizio - Verifiche tensionali

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	Mom <daNm>	σ_e <daN/cmq>	σ_f <daN/cmq>
-19285	0.00	11.44	XX	18	SLE R	10.05	10.05	231.80	4.67	153.87
-19286	0.00	11.67	XX	20	SLE Q	10.05	10.05	200.85	4.04	133.33
-13002	0.00	9.77	XX	18	SLE R	10.05	10.05	-370.32	7.46	245.82
-13002	0.00	9.77	XX	20	SLE Q	10.05	10.05	-339.49	6.83	225.36
-19106	4.91	14.75	XX	18	SLE R	10.05	10.05	50.61	1.02	33.60
-19106	4.91	14.75	XX	20	SLE Q	10.05	10.05	47.65	0.96	31.63
3098	5.56	0.00	XX	18	SLE R	10.05	10.05	-459.06	9.24	304.73
3098	5.56	0.00	XX	20	SLE Q	10.05	10.05	-412.00	8.29	273.50
3102	5.56	14.06	XX	18	SLE R	10.05	10.05	-611.96	12.32	406.23
3102	5.56	14.06	XX	20	SLE Q	10.05	10.05	-531.48	10.70	352.81
-19733	5.17	-0.69	XX	18	SLE R	10.05	10.05	45.03	0.91	29.89
-19733	5.17	-0.69	XX	20	SLE Q	10.05	10.05	42.39	0.85	28.14
3068	0.00	10.01	YY	18	SLE R	10.05	10.05	-435.90	8.78	289.36
3068	0.00	10.01	YY	20	SLE Q	10.05	10.05	-409.40	8.24	271.77
-19457	0.00	5.84	YY	18	SLE R	10.05	10.05	182.96	3.68	121.45
-19457	0.00	5.84	YY	20	SLE Q	10.05	10.05	161.19	3.25	107.00
-19179	3.04	14.29	YY	18	SLE R	10.05	10.05	21.81	0.44	14.48
-19179	3.04	14.29	YY	20	SLE Q	10.05	10.05	20.22	0.41	13.42
-19241	5.56	14.52	YY	18	SLE R	10.05	10.05	-144.02	2.90	95.60
-19241	5.56	14.52	YY	20	SLE Q	10.05	10.05	-126.02	2.54	83.66
-19738	5.56	-0.23	YY	18	SLE R	10.05	10.05	-267.90	5.39	177.84
-19738	5.56	-0.23	YY	20	SLE Q	10.05	10.05	-243.50	4.90	161.64
-19703	3.53	-0.23	YY	20	SLE Q	10.05	10.05	20.27	0.41	13.46
-19703	3.53	-0.23	YY	18	SLE R	10.05	10.05	21.86	0.44	14.51

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>
-19286	0.00	11.67	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	133.33	0.04	0.01
-19285	0.00	11.44	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	137.43	0.04	0.01
-13002	0.00	9.77	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	225.36	0.07	0.01
-13002	0.00	9.77	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	229.21	0.07	0.01
-19106	4.91	14.75	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	31.63	0.01	0.00
-19106	4.91	14.75	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	32.12	0.01	0.00
3098	5.56	0.00	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	273.50	0.08	0.01
3098	5.56	0.00	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	280.48	0.08	0.02
3102	5.56	14.06	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	352.81	0.10	0.02
3102	5.56	14.06	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	364.29	0.11	0.02
-19733	5.17	-0.69	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	28.14	0.01	0.00
-19733	5.17	-0.69	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	28.43	0.01	0.00
3068	0.00	10.01	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	271.77	0.08	0.01
3068	0.00	10.01	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	275.36	0.08	0.02
-19457	0.00	5.84	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	107.00	0.03	0.01
-19457	0.00	5.84	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	110.67	0.03	0.01
-19179	3.04	14.29	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	13.42	0.00	0.00
-19179	3.04	14.29	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	13.63	0.00	0.00
-19241	5.56	14.52	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	83.66	0.02	0.00
-19241	5.56	14.52	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	86.34	0.03	0.00
-19738	5.56	-0.23	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	161.64	0.05	0.01
-19738	5.56	-0.23	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	165.13	0.05	0.01
-19703	3.53	-0.23	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	13.46	0.00	0.00
-19703	3.53	-0.23	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	13.67	0.00	0.00

Armatura soletta Tetto dx.3

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>
20.00	3.00	3.00	C32/40	332.00	21.69	188.13	14.46	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.
4003	19.68	0.00	XX	17	SLU	13.40	13.40	-832.98	-8151.89	9.786
-17734	24.96	10.26	XX	17	SLU	13.40	13.40	-790.79	-8151.89	10.309
-697	20.06	14.06	XX	17	SLU	13.40	13.40	-423.45	-8151.89	19.251
-21018	24.96	11.87	XX	17	SLU	13.40	13.40	656.95	8151.89	12.409
-20955	20.53	14.98	XX	17	SLU	13.40	13.40	13.86	8151.89	>100
-21428	21.98	-0.69	XX	17	SLU	13.40	13.40	10.37	8151.89	>100
-20690	19.68	-0.23	YY	17	SLU	13.40	13.40	-1733.92	-8151.89	4.701
-21382	24.73	-0.23	YY	17	SLU	13.40	13.40	-907.24	-8151.89	8.985
-702	19.41	15.21	YY	17	SLU	13.40	13.40	-1300.33	-8151.89	6.269
-21370	22.89	-1.15	YY	17	SLU	13.40	13.40	683.49	8151.89	11.927
-20850	22.39	15.21	YY	17	SLU	13.40	13.40	735.72	8151.89	11.080
-21368	22.43	-1.15	YY	17	SLU	13.40	13.40	778.91	8151.89	10.466

Stato limite elastico - Verifiche a flessione/presoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	M'ydy <daNm>	Sic.
-28643	20.06	0.00	XX	13	SND	13.40	13.40	-949.25	-7774.14	8.190
4003	19.68	0.00	XX	5	SND	13.40	13.40	-1169.05	-7774.14	6.650
-21179	24.96	5.16	XX	5	SND	13.40	13.40	-5383.06	-7774.14	1.444
-35564	24.96	5.34	XX	5	SND	13.40	13.40	-5435.71	-7774.14	1.430
-20860	20.29	14.06	XX	1	SND	13.40	13.40	-635.14	-7774.14	12.240
-697	20.06	14.06	XX	1	SND	13.40	13.40	-706.62	-7774.14	11.002
-21466	19.91	-0.23	YY	13	SND	13.40	13.40	-2777.15	-7774.14	2.799
-21394	24.04	-0.23	YY	5	SND	13.40	13.40	-2433.23	-7774.14	3.195
-21386	24.50	-0.23	YY	5	SND	13.40	13.40	-3095.70	-7774.14	2.511
-20847	23.09	15.21	YY	1	SND	13.40	13.40	1238.05	7774.14	6.279
-20827	20.06	14.29	YY	1	SND	13.40	13.40	-1958.06	-7774.14	3.970
-21370	22.89	-1.15	YY	9	SND	13.40	13.40	1825.53	7774.14	4.259

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.
-20690	19.68	-0.23	XX	17	SLU	13.40	13.40		3564.59				12114.30	3.399
-21466	19.91	-0.23	XX	13	SND	13.40	13.40		5968.67				12114.30	2.030
-21382	24.73	-0.23	XX	17	SLU	13.40	13.40		2192.69				12114.30	5.525
-21282	24.96	1.25	XX	5	SND	13.40	13.40		8739.80				12114.30	1.386
-20827	20.06	14.29	XX	17	SLU	13.40	13.40		1811.49				12114.30	6.687
-20827	20.06	14.29	XX	1	SND	13.40	13.40		3559.91				12114.30	3.403
-21115	24.96	6.58	XX	17	SLU	13.40	13.40	20.11	2384.40	2.50	49628.30	30093.70	30093.70	12.621
-35572	24.96	5.84	XX	13	SND	13.40	13.40	20.11	15821.30	2.50	49628.30	30093.70	30093.70	1.902
-21462	20.14	-0.23	YY	17	SLU	13.40	13.40		1985.28				12114.30	6.102
-20690	19.68	-0.23	YY	13	SND	13.40	13.40		4605.60				12114.30	2.630
-21386	24.50	-0.23	YY	17	SLU	13.40	13.40		1962.68				12114.30	6.172
-21303	25.19	1.25	YY	5	SND	13.40	13.40		3892.83				12114.30	3.112
4070	19.68	15.21	YY	17	SLU	13.40	13.40		2058.41				12114.30	5.885
-20832	19.87	14.29	YY	1	SND	13.40	13.40		3838.78				12114.30	3.156
-17734	24.96	10.26	YY	17	SLU	13.40	13.40	20.11	2467.70	2.50	49628.30	30093.70	30093.70	12.195
-17262	24.96	2.75	YY	13	SND	13.40	13.40	20.11	11759.20	2.50	49628.30	30093.70	30093.70	2.559

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/cm²>	σ _f <daN/cm²>
4003	19.68	0.00	XX	18	SLE R	13.40	13.40	-623.30	10.87	314.25
4003	19.68	0.00	XX	20	SLE Q	13.40	13.40	-560.08	9.77	282.38
4024	24.96	14.06	XX	18	SLE R	13.40	13.40	-587.43	10.24	296.16
-17734	24.96	10.26	XX	20	SLE Q	13.40	13.40	-535.58	9.34	270.02
-697	20.06	14.06	XX	18	SLE R	13.40	13.40	-323.93	5.65	163.32
-697	20.06	14.06	XX	20	SLE Q	13.40	13.40	-293.70	5.12	148.07
-21018	24.96	11.87	XX	18	SLE R	13.40	13.40	487.24	8.50	245.65
-21018	24.96	11.87	XX	20	SLE Q	13.40	13.40	427.70	7.46	215.63
-20955	20.53	14.98	XX	20	SLE Q	13.40	13.40	10.15	0.18	5.12
-20955	20.53	14.98	XX	18	SLE R	13.40	13.40	10.42	0.18	5.26
-21428	21.98	-0.69	XX	18	SLE R	13.40	13.40	7.73	0.13	3.90
-21424	22.21	-0.69	XX	20	SLE Q	13.40	13.40	6.75	0.12	3.40
-20690	19.68	-0.23	YY	18	SLE R	13.40	13.40	-1306.61	22.78	658.75
-20690	19.68	-0.23	YY	20	SLE Q	13.40	13.40	-1200.35	20.93	605.18
-21382	24.73	-0.23	YY	18	SLE R	13.40	13.40	-680.74	11.87	343.21
-21382	24.73	-0.23	YY	20	SLE Q	13.40	13.40	-606.65	10.58	305.85
-702	19.41	15.21	YY	18	SLE R	13.40	13.40	-980.33	17.09	494.25
-702	19.41	15.21	YY	20	SLE Q	13.40	13.40	-883.91	15.41	445.64
-21370	22.89	-1.15	YY	18	SLE R	13.40	13.40	515.90	9.00	260.10
-21370	22.89	-1.15	YY	20	SLE Q	13.40	13.40	479.66	8.36	241.83
-20850	22.39	15.21	YY	18	SLE R	13.40	13.40	556.41	9.70	280.53
-20850	22.39	15.21	YY	20	SLE Q	13.40	13.40	510.36	8.90	257.31
-21368	22.43	-1.15	YY	18	SLE R	13.40	13.40	587.57	10.25	296.23
-21368	22.43	-1.15	YY	20	SLE Q	13.40	13.40	542.14	9.45	273.33

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/cm²>	ε _{sm}	W _k <mm>
4003	19.68	0.00	XX	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	282.38	0.08	0.01
4003	19.68	0.00	XX	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	288.98	0.08	0.02
-17734	24.96	10.26	XX	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	270.02	0.08	0.01
-17734	24.96	10.26	XX	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	273.99	0.08	0.01
-697	20.06	14.06	XX	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	148.07	0.04	0.01
-697	20.06	14.06	XX	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	151.45	0.04	0.01
-21018	24.96	11.87	XX	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	215.63	0.06	0.01
-21018	24.96	11.87	XX	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	221.54	0.06	0.01
-20955	20.53	14.98	XX	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	5.12	0.00	0.00

Relazione di calcolo

-20955	20.53	14.98	XX	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	5.12	0.00	0.00
-21424	22.21	-0.69	XX	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	3.40	0.00	0.00
-21424	22.21	-0.69	XX	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	3.50	0.00	0.00
-20690	19.68	-0.23	YY	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	605.18	0.18	0.03
-20690	19.68	-0.23	YY	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	616.10	0.18	0.03
-21382	24.73	-0.23	YY	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	305.85	0.09	0.02
-21382	24.73	-0.23	YY	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	313.38	0.09	0.02
-702	19.41	15.21	YY	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	445.64	0.13	0.02
-702	19.41	15.21	YY	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	455.15	0.13	0.02
-21370	22.89	-1.15	YY	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	241.83	0.07	0.01
-21370	22.89	-1.15	YY	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	245.42	0.07	0.01
-20850	22.39	15.21	YY	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	257.31	0.07	0.01
-20850	22.39	15.21	YY	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	261.95	0.08	0.01
-21368	22.43	-1.15	YY	20	SLE Q	22.00	150.00	0.50	16.00	106.45	15.41	473.10	273.33	0.08	0.01
-21368	22.43	-1.15	YY	19	SLE F	22.00	150.00	0.50	16.00	106.45	15.41	473.10	277.86	0.08	0.01

Armatura soletta Tetto dx.2

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>	<cm>		<daN/cm²>	<daN/cm²>	<daN/cm²>	<daN/cm²>		<daN/cm²>	<daN/cm²>
20.00	3.00	3.00	C32/40	332.00	21.69	188.13	14.46	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	My	MRdy	Sic.
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daNm>	
-20191	14.27	14.29	XX	17	SLU	5.65	5.65	-143.33	-3808.13	26.569
4075	19.41	14.06	XX	17	SLU	5.65	5.65	-515.93	-3808.13	7.381
4026	14.27	0.00	XX	17	SLU	5.65	5.65	-196.31	-3808.13	19.399
4071	19.41	0.00	XX	17	SLU	5.65	5.65	-589.20	-3808.13	6.463
-20641	16.61	-0.69	XX	17	SLU	5.65	5.65	20.64	3808.13	>100
-20766	16.38	14.75	XX	17	SLU	5.65	5.65	19.14	3808.13	>100
-671	14.27	15.21	YY	17	SLU	5.65	5.65	-1104.77	-3808.13	3.447
-702	19.41	15.21	YY	17	SLU	5.65	5.65	-1149.02	-3808.13	3.314
-670	14.27	-1.15	YY	17	SLU	5.65	5.65	-1435.02	-3808.13	2.654
-701	19.41	-1.15	YY	17	SLU	5.65	5.65	-1128.15	-3808.13	3.376
-20567	16.84	-1.15	YY	17	SLU	5.65	5.65	879.05	3808.13	4.332
-20723	16.61	15.21	YY	17	SLU	5.65	5.65	773.28	3808.13	4.925

Stato limite elastico - Verifiche a flessione/presoflessione

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	My	M'ydy	Sic.
	<m>	<m>				<cmq>	<cmq>	<daNm>	<daNm>	
4028	14.27	14.06	XX	1	SND	5.65	5.65	-334.89	-3424.32	10.225
-699	18.96	14.06	XX	9	SND	5.65	5.65	-801.13	-3424.32	4.274
-20541	14.27	-0.23	XX	13	SND	5.65	5.65	-461.49	-3424.32	7.420
4026	14.27	0.00	XX	13	SND	5.65	5.65	-496.81	-3424.32	6.893
-20584	18.71	0.00	XX	5	SND	5.65	5.65	-334.33	-3424.32	10.242
4071	19.41	0.00	XX	1	SND	5.65	5.65	-610.14	-3424.32	5.612
-671	14.27	15.21	YY	1	SND	5.65	5.65	-1071.64	-3424.32	3.195
-20710	18.96	14.29	YY	9	SND	5.65	5.65	-1414.83	-3424.32	2.420
-670	14.27	-1.15	YY	13	SND	5.65	5.65	-1868.48	-3424.32	1.833
-20559	14.97	-1.15	YY	13	SND	5.65	5.65	-881.30	-3424.32	3.886
-20571	17.77	-1.15	YY	13	SND	5.65	5.65	896.88	3424.32	3.818
-701	19.41	-1.15	YY	13	SND	5.65	5.65	-1499.49	-3424.32	2.284
-20743	14.97	14.52	YY	1	SND	5.65	5.65	-399.60	-3424.32	8.569
-20720	17.32	15.21	YY	1	SND	5.65	5.65	666.89	3424.32	5.135

Stato limite ultimo - Verifiche a taglio

Nodo	X	Y	DV	CC	TCC	AfE S	AfE I	AfE St.	Vsdu	ctgθ	VRcd	VRsd	Vrdu	Sic.
	<m>	<m>				<cmq>	<cmq>	<cmq/m>	<daN>		<daN>	<daN>	<daN>	
-20191	14.27	14.29	XX	17	SLU	5.65	5.65		239.93				9696.86	40.415
-20191	14.27	14.29	XX	9	SND	5.65	5.65		923.08				9696.86	10.505
-20710	18.96	14.29	XX	17	SLU	5.65	5.65		1642.48				9696.86	5.904
-20710	18.96	14.29	XX	9	SND	5.65	5.65		3427.44				9696.86	2.829
-20541	14.27	-0.23	XX	17	SLU	5.65	5.65		309.58				9696.86	31.323
-20541	14.27	-0.23	XX	13	SND	5.65	5.65		3180.58				9696.86	3.049
-20581	19.41	-0.23	XX	17	SLU	5.65	5.65		1830.92				9696.86	5.296
-20581	19.41	-0.23	XX	5	SND	5.65	5.65		2638.74				9696.86	3.675
-20191	14.27	14.29	YY	17	SLU	5.65	5.65		1892.60				9696.86	5.124
-20194	14.27	14.98	YY	1	SND	5.65	5.65		1801.38				9696.86	5.383
-20809	19.41	14.29	YY	17	SLU	5.65	5.65		1822.80				9696.86	5.320
-20809	19.41	14.29	YY	9	SND	5.65	5.65		4443.08				9696.86	2.182
-670	14.27	-1.15	YY	17	SLU	5.65	5.65		2003.97				9696.86	4.839
-20541	14.27	-0.23	YY	5	SND	5.65	5.65		3389.42				9696.86	2.861
-20559	14.97	-1.15	YY	17	SLU	5.65	5.65		1695.88				9696.86	5.718
-20581	19.41	-0.23	YY	13	SND	5.65	5.65		2309.27				9696.86	4.199

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>
-20191	14.27	14.29	XX	18	SLE R	5.65	5.65	-107.90	2.86	124.10
-20192	14.27	14.52	XX	20	SLE Q	5.65	5.65	-95.20	2.53	109.49
4075	19.41	14.06	XX	18	SLE R	5.65	5.65	-386.44	10.25	444.46
-11295	19.18	14.06	XX	20	SLE Q	5.65	5.65	-332.19	8.81	382.06
4026	14.27	0.00	XX	18	SLE R	5.65	5.65	-149.75	3.97	172.23
4026	14.27	0.00	XX	20	SLE Q	5.65	5.65	-141.32	3.75	162.53
4071	19.41	0.00	XX	18	SLE R	5.65	5.65	-431.64	11.45	496.44
4071	19.41	0.00	XX	20	SLE Q	5.65	5.65	-376.45	9.99	432.96
-20641	16.61	-0.69	XX	18	SLE R	5.65	5.65	15.48	0.41	17.81
-20641	16.61	-0.69	XX	20	SLE Q	5.65	5.65	13.73	0.36	15.79
-20766	16.38	14.75	XX	18	SLE R	5.65	5.65	14.28	0.38	16.42
-20766	16.38	14.75	XX	20	SLE Q	5.65	5.65	12.69	0.34	14.60
-671	14.27	15.21	YY	18	SLE R	5.65	5.65	-823.62	21.85	947.26
-671	14.27	15.21	YY	20	SLE Q	5.65	5.65	-746.91	19.82	859.03
-702	19.41	15.21	YY	18	SLE R	5.65	5.65	-866.51	22.99	996.58
-702	19.41	15.21	YY	20	SLE Q	5.65	5.65	-782.29	20.76	899.73
-670	14.27	-1.15	YY	18	SLE R	5.65	5.65	-1073.28	28.48	1234.39
-670	14.27	-1.15	YY	20	SLE Q	5.65	5.65	-977.03	25.92	1123.69
-701	19.41	-1.15	YY	18	SLE R	5.65	5.65	-849.92	22.55	977.51
-701	19.41	-1.15	YY	20	SLE Q	5.65	5.65	-770.46	20.44	886.12
-20567	16.84	-1.15	YY	18	SLE R	5.65	5.65	662.56	17.58	762.03
-20567	16.84	-1.15	YY	20	SLE Q	5.65	5.65	604.25	16.03	694.96
-20723	16.61	15.21	YY	18	SLE R	5.65	5.65	583.60	15.48	671.21
-20723	16.61	15.21	YY	20	SLE Q	5.65	5.65	533.40	14.15	613.47

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}	W _k <mm>
-20192	14.27	14.52	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	109.49	0.03	0.01
-20191	14.27	14.29	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	112.37	0.03	0.01
-11295	19.18	14.06	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	382.06	0.11	0.03
-11295	19.18	14.06	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	394.68	0.11	0.03
4026	14.27	0.00	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	162.53	0.05	0.01
4026	14.27	0.00	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	164.53	0.05	0.01
4071	19.41	0.00	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	432.96	0.13	0.03
4071	19.41	0.00	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	447.35	0.13	0.03
-20641	16.61	-0.69	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	15.79	0.00	0.00
-20641	16.61	-0.69	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	16.18	0.00	0.00
-20766	16.38	14.75	XX	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	14.60	0.00	0.00
-20766	16.38	14.75	XX	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	14.95	0.00	0.00
-671	14.27	15.21	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	859.03	0.25	0.06
-671	14.27	15.21	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	876.49	0.26	0.06
-702	19.41	15.21	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	899.73	0.26	0.06
-702	19.41	15.21	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	918.68	0.27	0.06
-670	14.27	-1.15	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	1123.69	0.33	0.08
-670	14.27	-1.15	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	1146.28	0.33	0.08
-701	19.41	-1.15	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	886.12	0.26	0.06
-701	19.41	-1.15	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	904.08	0.26	0.06
-20567	16.84	-1.15	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	694.96	0.20	0.05
-20567	16.84	-1.15	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	708.38	0.21	0.05
-20723	16.61	15.21	YY	20	SLE Q	24.00	200.00	0.50	12.00	140.13	6.79	520.99	613.47	0.18	0.04
-20723	16.61	15.21	YY	19	SLE F	24.00	200.00	0.50	12.00	140.13	6.79	520.99	624.97	0.18	0.04

Armatura soletta Tetto dx.1

Caratteristiche delle sezioni e dei materiali utilizzati

Spess.	Cf sup	Cf inf	Cls	Fck	Fctk	Fcd	Fctd	Tp	Fyk	Fyd
<cm>	<cm>	<cm>		<daN/cmq>	<daN/cmq>	<daN/cmq>	<daN/cmq>		<daN/cmq>	<daN/cmq>
20.00	3.00	3.00	C32/40	332.00	21.69	188.13	14.46	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.
-20014	9.45	13.82	XX	17	SLU	10.05	10.05	170.02	6292.05	37.008
-20032	10.37	10.75	XX	17	SLU	10.05	10.05	-445.21	-6292.05	14.133
-20541	14.27	-0.23	YY	17	SLU	10.05	10.05	-1305.77	-6292.05	4.819
-19996	10.60	10.75	YY	17	SLU	10.05	10.05	-106.86	-6292.05	58.882
-20212	9.91	10.01	YY	17	SLU	10.05	10.05	60.06	6292.05	>100
-671	14.27	15.21	YY	17	SLU	10.05	10.05	-901.82	-6292.05	6.977

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.
-678	13.56	14.06	XX	1	SND	10.05	10.05	-2301.80	-5916.66	2.570

Relazione di calcolo

-20541	14.27	-0.23	YY	5	SND	10.05	10.05	-2016.10	-5916.66	2.935
-14940	10.60	1.00	YY	5	SND	10.05	10.05	-1610.15	-5916.66	3.675
-20177	13.71	14.29	YY	1	SND	10.05	10.05	-1120.33	-5916.66	5.281

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.
-20032	10.37	10.75	XX	17	SLU	10.05	10.05		2129.34				11006.60	5.169
-20032	10.37	10.75	XX	5	SND	10.05	10.05		5810.43				11006.60	1.894
-20156	13.36	14.29	XX	17	SLU	10.05	10.05	20.11	981.00	2.50	49628.30	30093.70	30093.70	30.677
-20148	13.56	14.29	XX	1	SND	10.05	10.05	20.11	14865.40	2.50	49628.30	30093.70	30093.70	2.024
-20381	10.37	2.50	YY	17	SLU	10.05	10.05		689.84				11006.60	15.955
-20419	10.37	1.25	YY	5	SND	10.05	10.05		6413.09				11006.60	1.716
-20126	11.16	14.29	YY	17	SLU	10.05	10.05	20.11	149.70	2.50	49628.30	30093.70	30093.70	>100
-20148	13.56	14.29	YY	1	SND	10.05	10.05	20.11	3521.25	2.50	49628.30	30093.70	30093.70	8.546

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>
-20014	9.45	13.82	XX	18	SLE R	10.05	10.05	117.13	2.36	77.75
-20014	9.45	13.82	XX	20	SLE Q	10.05	10.05	127.94	2.58	84.93
-20032	10.37	10.75	XX	18	SLE R	10.05	10.05	-323.31	6.51	214.62
-20032	10.37	10.75	XX	20	SLE Q	10.05	10.05	-322.25	6.49	213.92
-20541	14.27	-0.23	YY	18	SLE R	10.05	10.05	-980.67	19.74	650.99
-20541	14.27	-0.23	YY	20	SLE Q	10.05	10.05	-907.78	18.28	602.61
-19996	10.60	10.75	YY	18	SLE R	10.05	10.05	-76.91	1.55	51.05
-19996	10.60	10.75	YY	20	SLE Q	10.05	10.05	-76.02	1.53	50.46
-20212	9.91	10.01	YY	18	SLE R	10.05	10.05	44.21	0.89	29.35
-20212	9.91	10.01	YY	20	SLE Q	10.05	10.05	43.84	0.88	29.10
-671	14.27	15.21	YY	18	SLE R	10.05	10.05	-671.09	13.51	445.49
-671	14.27	15.21	YY	20	SLE Q	10.05	10.05	-604.03	12.16	400.97

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}	W _k <mm>
-20014	9.45	13.82	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	84.93	0.02	0.00
-20014	9.45	13.82	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	83.21	0.02	0.00
-20032	10.37	10.75	XX	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	213.63	0.06	0.01
-20032	10.37	10.75	XX	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	213.92	0.06	0.01
-20541	14.27	-0.23	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	602.61	0.18	0.03
-20541	14.27	-0.23	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	612.52	0.18	0.03
-19996	10.60	10.75	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	50.46	0.01	0.00
-19996	10.60	10.75	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	50.53	0.01	0.00
-20212	9.91	10.01	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	29.10	0.01	0.00
-20212	9.91	10.01	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	29.11	0.01	0.00
-671	14.27	15.21	YY	20	SLE Q	22.00	200.00	0.50	16.00	110.13	12.06	489.48	400.97	0.12	0.02
-671	14.27	15.21	YY	19	SLE F	22.00	200.00	0.50	16.00	110.13	12.06	489.48	409.86	0.12	0.02