

**IMPIANTO AGRIVOLTAICO DENOMINATO "SOLAR ENERGY"
CON POTENZA NOMINALE DI 200 MVA
E POTENZA INSTALLATA DI 202,07 MWp**

REGIONE PUGLIA






PROVINCIA di BRINDISI
COMUNI di BRINDISI E MESAGNE

OPERE DI CONNESSIONE ALLA RTN NEI COMUNI DI BRINDISI E MESAGNE

PROGETTO DEFINITIVO

Tav.:	Titolo:
R17b.6	Relazione Strutturale Scaricatore

Scala:	Formato Stampa:	Codice Identificatore Elaborato
n.a.	A4	R17b.6_CalcoliPrelStrutture_17b.6

Progettazione:	Committente:
 Dott. Ing. Fabio CALCARELLA Via B. Ravenna, 14 - 73100 Lecce Mob. +39 340 9243575 fabio.calcarella@gmail.com  	SOLAR ENERGY & PARTNERS S.R.L. Parco Agrivoltaico Gruppo Rosato Località Restinco - C.P. 310 - 72100 Brindisi P.iva 022089660746
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Data	Motivo della revisione:	Redatto:	Controllato:	Approvato:
Febbraio 2024	Prima emissione	MO	FC	SOLAR ENERGY & PARTNERS s.r.l.

DATI DI PROGETTO

INTESTAZIONE E DATI CARATTERISTICI DELLA STRUTTURA

Nome dell'archivio di lavoro	SCARICATORE
Intestazione del lavoro	SCARICATORE BRINDISI
Tipo di struttura	Nello Spazio
Tipo di analisi	Statica e Dinamica
Tipo di soluzione	Lineare
Unita' di misura delle forze	kg
Unita' di misura delle lunghezze	m

Normativa	NTC-2018
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NORMATIVA

Vita nominale costruzione	50 anni
Classe d'uso costruzione	I
Vita di riferimento	35 anni
Localita'	Brindisi - 72100, Puglia, Italia
Longitudine (WGS84)	13.2307
Latitudine (WGS84)	46.0649
Categoria del suolo	C

Coefficiente topografico	1
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Coefficiente di smorzamento	5%
Eccentricita' accidentale	0%
Numero di frequenze	2

Periodo proprio T1 in direzione X	8.486
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Periodo proprio T1 in direzione Y	8.486
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Comportamento strutturale	NON Dissipativo
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PARAMETRI SISMICI

	TR	ag/g	FO	TC*	CC	Ss	Pga (ag*S) (m/s^2)
SLO	21	0.0000	0.0000	0.00	0.00	0.00	0.000
SLD	35	0.0735	2.4740	0.26	1.63	1.50	1.082
SLV	332	0.2061	2.4480	0.33	1.51	1.40	2.825
SLE	332	0.2061	2.4480	0.33	1.51	1.40	2.825
SLC	682	0.2377	2.4670	0.34	1.50	1.35	3.144

STATO LIMITE ULTIMO

Fattore di comportamento q per sisma orizzontale	qor=2
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STATO LIMITE DI DANNO

Fattore di comportamento q per sisma orizzontale	qor=1.5
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Coeff.moltiplicativo sisma	1.000
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PARAMETRI SISMICI

Angolo del sisma nel piano orizzontale	0
Sisma verticale	Assente

Combinazione dei modi	CQC
Combinazione componenti azioni sismiche	NTC - Eurocodice 8

λ	0.3
μ	0.3

CARICHI NODALI

Num. comb. car.	Descrizione							
1	Dinamica	Nodo	FX	FY	FZ	MX	MY	MZ
		10			-6.00e+02			
		9			-6.00e+02			
		8			-6.00e+02			
2	Statica	Nodo	FX	FY	FZ	MX	MY	MZ
		10			-6.00e+02			
		9			-6.00e+02			
		8			-6.00e+02			
4	Frequente	Nodo	FX	FY	FZ	MX	MY	MZ
		10			-6.00e+02			
		9			-6.00e+02			
		8			-6.00e+02			
6	S.L.D.	Nodo	FX	FY	FZ	MX	MY	MZ
		10			-6.00e+02			
		9			-6.00e+02			
		8			-6.00e+02			

CONDIZIONI DI CARICO AI NODI

Num.cond.carico	Descrizione							
1	SCARICATORE	Nodo	FX	FY	FZ	MX	MY	MZ
		8			-6.00e+02			
		9			-6.00e+02			
		10			-6.00e+02			

COMBINAZIONI DI CARICO

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE ULTIMO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
1	Dinamica	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.000
2	Statica	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE D'ESERCIZIO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
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Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
4	Frequente	Tipologia: Frequente	Permanente: Peso Proprio	Condizione peso proprio	1.000

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE DI DANNO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
6	S.L.D.	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.000

VERIFICHE SLU

Lavoro: **SCARICATORE** Intestazione lavoro: **SCARICATORE BRINDISI**
 Elemento: **PILASTRO** Gruppo: **1** Tabella: **Tabella pilastri**
 Descrizione: **PILASTRI CA**
 Spunt. I **20.0** cm Spunt. J **20.0** cm
 Rck: **300.00** kg/cm² fyk: **4580.0** kg/cm² Copriferro di calcolo: **3.0** cm Copriferro di disegno: **3.0** cm
 Verifica in ottemperanza alle NTC2018
 Per le combinazioni sismiche la capacità è valutata in campo elastico o sostanzialmente elastico(\$7.4.1 NTC2018)
 Diametro staffe: **8** mm Numero braccia: **2**
 ρ min.: **1.000** % Passo max. armatura longitudinale: **50.0** cm

ASTA NUM. 1 NI 2 NF 10 SEZ. Rp B= 0.600 H= 0.600 (pilastro)

PIL. NUM. 1

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	campo	Indice	resistenza	aswta	aswto	PASSO	
	cm	kg			kg*m			cmq				Fx,M	Bielle	V,Mx	cmq/m	cm		
1A	0	-1459	0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1B	0	-1459	0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1C	0	-1459	0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1D	0	-1459	0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1E	0	-1451	0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1F	0	-1451	0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1G	0	-1451	0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1H	0	-1451	0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1I	0	-1468	0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1J	0	-1468	0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1K	0	-1468	0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1L	0	-1468	0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1M	0	-1442	0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1N	0	-1442	0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1O	0	-1442	0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1P	0	-1442	0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
2	0	-1712	0	0	0	0	0	10.78	10.78	10.78	10.78	3	0.00	0.00	0.00	0.00	0.00	16.8

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54) staffe= 2 d 8 / 16.8

1A	48	-1032	0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1B	48	-1032	0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1C	48	-1032	0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1D	48	-1032	0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1E	48	-1023	0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1F	48	-1023	0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1G	48	-1023	0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1H	48	-1023	0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1I	48	-1041	0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1J	48	-1041	0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1K	48	-1041	0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1L	48	-1041	0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1M	48	-1014	0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1N	48	-1014	0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1O	48	-1014	0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1P	48	-1014	0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
2	48	-1156	0	0	0	-0	0	10.78	10.78	10.78	10.78	3	0.00	0.00	0.00	0.00	0.00	16.8

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54) staffe= 2 d 8 / 16.8

1A	95	-604	0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1B	95	-604	0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1C	95	-604	0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1D	95	-604	0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1E	95	-596	0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1F	95	-596	0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1G	95	-596	0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1H	95	-596	0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1I	95	-613	0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1J	95	-613	0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1K	95	-613	0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1L	95	-613	0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1M	95	-587	0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1N	95	-587	0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1O	95	-587	0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1P	95	-587	0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
2	95	-600	0	0	0	-0	0	10.78	10.78	10.78	10.78	3	0.00	0.00	0.00	0.00	0.00	16.8

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54) staffe= 2 d 8 / 16.8

ASTA NUM. 2 NI 3 NF 9 SEZ. Rp B= 0.600 H= 0.600 (pilastro)

PIL. NUM. 2

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	campo	Indice	resistenza	aswta	aswto	PASSO	
	cm	kg			kg*m			cmq				Fx,M	Bielle	V,Mx	cmq/m	cm		
1A	0	-1459	-0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8

1B	0	-1459	0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1C	0	-1459	-0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1D	0	-1459	0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1E	0	-1451	-0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1F	0	-1451	0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1G	0	-1451	-0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1H	0	-1451	0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1I	0	-1468	-0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1J	0	-1468	0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1K	0	-1468	-0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1L	0	-1468	0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1M	0	-1442	-0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1N	0	-1442	0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1O	0	-1442	-0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1P	0	-1442	0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
2	0	-1712	-0	0	0	0	0	10.78	10.78	10.78	10.78	3	0.00	0.00	0.00	0.00	0.00	16.8

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54) staffe= 2 d 8 / 16.8

1A	48	-1032	-0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1B	48	-1032	0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1C	48	-1032	-0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1D	48	-1032	0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1E	48	-1023	-0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1F	48	-1023	0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1G	48	-1023	-0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1H	48	-1023	0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1I	48	-1041	-0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1J	48	-1041	0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1K	48	-1041	-0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1L	48	-1041	0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1M	48	-1014	-0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1N	48	-1014	0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1O	48	-1014	-0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1P	48	-1014	0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
2	48	-1156	-0	0	0	-0	0	10.78	10.78	10.78	10.78	3	0.00	0.00	0.00	0.00	0.00	16.8

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54) staffe= 2 d 8 / 16.8

1A	95	-604	-0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1B	95	-604	0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1C	95	-604	-0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1D	95	-604	0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1E	95	-596	-0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1F	95	-596	0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1G	95	-596	-0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1H	95	-596	0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1I	95	-613	-0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1J	95	-613	0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1K	95	-613	-0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1L	95	-613	0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1M	95	-587	-0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1N	95	-587	0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1O	95	-587	-0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1P	95	-587	0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
2	95	-600	-0	0	0	-0	0	10.78	10.78	10.78	10.78	3	0.00	0.00	0.00	0.00	0.00	16.8

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54) staffe= 2 d 8 / 16.8

ASTA NUM. 3 NI 4 NF 8 SEZ. Rp B= 0.600 H= 0.600 (pilastro)

PIL. NUM. 3

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	campo	Indice	resistenza	aswta	aswto	PASSO	
	cm	kg			kg*m			cmq				Fx,M	Bielle	V,Mx	cmq/m	cm		
1A	0	-1459	-0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1B	0	-1459	-0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1C	0	-1459	-0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1D	0	-1459	-0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1E	0	-1451	-0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1F	0	-1451	-0	2	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1G	0	-1451	-0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1H	0	-1451	-0	-2	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1I	0	-1468	-0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1J	0	-1468	-0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1K	0	-1468	-0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1L	0	-1468	-0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1M	0	-1442	-0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1N	0	-1442	-0	5	0	0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1O	0	-1442	-0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1P	0	-1442	-0	-5	0	-0	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
2	0	-1712	-0	0	0	0	0	10.78	10.78	10.78	10.78	3	0.00	0.00	0.00	0.00	0.00	16.8

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54) staffe= 2 d 8 / 16.8

1A	48	-1032	-0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1B	48	-1032	-0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1C	48	-1032	-0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1D	48	-1032	-0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1E	48	-1023	-0	2	0	-1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1F	48	-1023	-0	2	0	-1	0	10.78										

1G	48	-1023	-0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1H	48	-1023	-0	-2	0	1	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1I	48	-1041	-0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1J	48	-1041	-0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1K	48	-1041	-0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1L	48	-1041	-0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1M	48	-1014	-0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1N	48	-1014	-0	5	0	-3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1O	48	-1014	-0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1P	48	-1014	-0	-5	0	3	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
2	48	-1156	-0	0	0	-0	0	10.78	10.78	10.78	10.78	3	0.00	0.00	0.00	0.00	0.00	16.8

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54) staffe= 2 d 8 / 16.8

1A	95	-604	-0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1B	95	-604	-0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1C	95	-604	-0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1D	95	-604	-0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1E	95	-596	-0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1F	95	-596	-0	2	0	-2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1G	95	-596	-0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1H	95	-596	-0	-2	0	2	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1I	95	-613	-0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1J	95	-613	-0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1K	95	-613	-0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1L	95	-613	-0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1M	95	-587	-0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1N	95	-587	-0	5	0	-5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1O	95	-587	-0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
1P	95	-587	-0	-5	0	5	0	10.78	10.78	10.78	10.78	2	0.00	0.00	0.00	0.00	0.00	16.8
2	95	-600	-0	0	0	-0	0	10.78	10.78	10.78	10.78	3	0.00	0.00	0.00	0.00	0.00	16.8

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54) staffe= 2 d 8 / 16.8

L E G E N D A

Prima asta	Ultima asta	Nome disegno	Descrizione disegno
1	3	SCARICATORE0001_IP1.YPI	PILASTRI CA

Lavoro: **SCARICATORE** Intestazione lavoro: **SCARICATORE BRINDISI**
 Elemento: **TRAVE DI FONDAZIONE** Gruppo: **1** Tabella: **Tabella fondazioni**
 Descrizione: **FONDAZIONE**
 Spunt. I **30.0** cm Spunt. J **30.0** cm
 Rck: **300.00** kg/cm² fyk: **4580.0** kg/cm² Copriferro: **4.0** cm
 Verifica in ottemperanza alle NTC2018
 Per le combinazioni sismiche la capacità è valutata in campo elastico o sostanzialmente elastico (§7.2.5,7.4.1 NTC2018)
 Diametro staffe: **8** mm Numero braccia: **2**
 Passo max. armatura longitudinale: **50.0** cm

Nome travata: **fondaz_101_IP1** Descrizione: **Fondazione_101**
ASTA NUM. 1 NI 1 NF 2 SEZ. Rp B= 1.600 H= 0.600 (trave di fondazione)

armatura base = 4 X 2.01 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	x/d	Indice	resistenza	aswta	aswto	PASSO	
	cm	kg			kg*m			cmq				Fx,M	Bielle	V,Mx	cmq/m	cm		
1A	0	-0	47	0	0	0	-30	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1B	0	-0	47	0	0	0	-30	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1I	0	-0	47	0	0	0	-29	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1J	0	-0	48	0	0	0	-30	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
2	0	-0	55	0	0	0	-35	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.00	0.00	0.00	--
apost= --		aant= --		ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0														
1A	6	-0	47	0	0	0	32	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1B	6	-0	47	0	0	0	33	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1I	6	-0	47	0	0	0	32	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1J	6	-0	48	0	0	0	33	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
2	6	-0	55	0	0	0	38	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.00	0.00	0.00	--
apost= --		aant= --		ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0														
1A	12	-0	141	0	0	0	94	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1B	12	-0	142	0	0	0	95	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1I	12	-0	140	0	0	0	94	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1J	12	-0	142	0	0	0	95	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
2	12	-0	166	0	0	0	111	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--
apost= --		aant= --		ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0														
1A	18	-0	141	0	0	0	103	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1B	18	-0	142	0	0	0	103	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1I	18	-0	140	0	0	0	102	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1J	18	-0	142	0	0	0	104	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
2	18	-0	166	0	0	0	121	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--
apost= --		aant= --		ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0														
1A	24	-0	235	0	0	0	170	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B	24	-0	236	0	0	0	171	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I	24	-0	233	0	0	0	170	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J	24	-0	237	0	0	0	172	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2	24	-0	277	0	0	0	201	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--
apost= --		aant= --		ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0														
1A	30	-0	235	0	0	0	185	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B	30	-0	236	0	0	0	185	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I	30	-0	233	0	0	0	184	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J	30	-0	237	0	0	0	186	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2	30	-0	277	0	0	0	218	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.01	0.00	0.00	--
apost= --		aant= --		ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0														
1A	36	-0	328	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B	36	-0	330	0	0	0	141	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I	36	-0	326	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J	36	-0	332	0	0	0	140	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2	36	-0	387	0	0	0	166	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--
apost= --		aant= --		ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0														
1A	42	-0	328	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B	42	-0	330	0	0	0	141	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I	42	-0	326	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J	42	-0	332	0	0	0	140	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2	42	-0	387	0	0	0	166	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--
apost= --		aant= --		ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0														
1A	48	-0	422	0	0	0	78	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B	48	-0	424	0	0	0	77	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I	48	-0	419	0	0	0	79	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J	48	-0	427	0	0	0	77	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2	48	-0	498	0	0	0	91	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.02	0.00	0.00	--
apost= --		aant= --		ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0														
1A	54	-0	422	0	0	0	78	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--

1B	54	-0	424	0	0	0	77	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I	54	-0	419	0	0	0	79	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J	54	-0	427	0	0	0	77	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2	54	-0	498	0	0	0	91	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.02	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	60	-0	422	0	0	0	78	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B	60	-0	424	0	0	0	77	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I	60	-0	419	0	0	0	79	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J	60	-0	427	0	0	0	76	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2	60	-0	498	0	0	0	91	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.02	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

Nome travata: **fondaz_101_IP1** Descrizione: **Fondazione_101**
ASTA NUM. 2 NI 2 NF 3 SEZ. Rp B= 1.600 H= 0.600 (trave di fondazione)

armatura base = 4 X 2.01 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	x/d	Indice	resistenza	aswta	aswto	PASSO	
	cm		kg			kg*m							Fx,M	Bielle	V,Mx	cmq/m	cm	
1A	0	-0	-815	0	0	0	20	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.03	0.00	0.00	--
1B	0	-0	-810	0	0	0	19	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.03	0.00	0.00	--
1I	0	-0	-820	0	0	0	21	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.03	0.00	0.00	--
1J	0	-0	-805	0	0	0	18	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.03	0.00	0.00	--
2	0	-0	-956	0	0	0	23	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.03	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	22	-0	-815	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1B	22	-0	-810	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1I	22	-0	-820	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1J	22	-0	-805	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
2	22	-0	-956	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.03	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	44	-0	-815	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1B	44	-0	-810	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1I	44	-0	-820	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1J	44	-0	-805	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
2	44	-0	-956	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.03	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	66	-0	-471	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1B	66	-0	-468	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1I	66	-0	-474	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1J	66	-0	-465	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
2	66	-0	-552	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	88	-0	-471	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1B	88	-0	-468	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1I	88	-0	-474	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1J	88	-0	-465	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
2	88	-0	-552	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	110	-0	-127	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.00	0.00	0.00	--
1B	110	-0	-127	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.00	0.00	0.00	--
1I	110	-0	-128	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.00	0.00	0.00	--
1J	110	-0	-126	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.00	0.00	0.00	--
2	110	-0	-149	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.00	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	132	-0	214	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1B	132	-0	216	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1I	132	-0	213	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1J	132	-0	217	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
2	132	-0	253	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.01	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	154	-0	214	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1B	154	-0	216	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1I	154	-0	213	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1J	154	-0	217	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
2	154	-0	253	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.01	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	176	-0	555	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1B	176	-0	558	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1I	176	-0	552	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1J	176	-0	562	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
2	176	-0	655	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 198	-0	555	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1B 198	-0	558	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1I 198	-0	552	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1J 198	-0	562	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
2 198	-0	655	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 220	-0	555	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1B 220	-0	558	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1I 220	-0	552	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1J 220	-0	562	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
2 220	-0	655	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

Nome travata: **fondaz_101_IP1** Descrizione: **Fondazione_101**
ASTA NUM. 3 NI 3 NF 4 SEZ. Rp B= 1.600 H= 0.600 (trave di fondazione)

armatura base = 4 X 2.01 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AAANT	AINF	ASUP	x/d	Indice	resistenza	aswta	aswto	PASSO	
	cm	kg			kg*m				cmq				Fx,M	Bielle	V,Mx	cmq/m	cm	
1A	0	-0	-558	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1B	0	-0	-555	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1I	0	-0	-562	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1J	0	-0	-552	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
2	0	-0	-655	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 22	-0	-558	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1B 22	-0	-555	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1I 22	-0	-562	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1J 22	-0	-552	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
2 22	-0	-655	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 44	-0	-558	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1B 44	-0	-555	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1I 44	-0	-562	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
1J 44	-0	-552	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.02	0.00	0.00	--
2 44	-0	-655	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 66	-0	-216	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1B 66	-0	-214	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1I 66	-0	-217	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1J 66	-0	-213	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
2 66	-0	-253	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.01	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 88	-0	-216	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1B 88	-0	-214	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1I 88	-0	-217	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1J 88	-0	-213	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
2 88	-0	-253	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.01	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 110	-0	127	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.00	0.00	0.00	--
1B 110	-0	127	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.00	0.00	0.00	--
1I 110	-0	126	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.00	0.00	0.00	--
1J 110	-0	128	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.00	0.00	0.00	--
2 110	-0	149	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.00	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 132	-0	468	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1B 132	-0	471	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1I 132	-0	465	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1J 132	-0	474	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
2 132	-0	552	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 154	-0	468	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1B 154	-0	471	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1I 154	-0	465	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
1J 154	-0	474	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.01	0.00	0.00	--
2 154	-0	552	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.02	0.00	0.00	--

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0															
1A 176	-0	810	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--

1B 176	-0	815	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1I 176	-0	805	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1J 176	-0	820	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
2 176	-0	956	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.03	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A 198	-0	810	0	0	0	-477	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1B 198	-0	815	0	0	0	-480	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1I 198	-0	805	0	0	0	-474	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
1J 198	-0	820	0	0	0	-483	4.02	4.02	20.11	20.11	0.22	0.01	0.00	0.03	0.00	0.00	--
2 198	-0	956	0	0	0	-563	4.02	4.02	20.11	20.11	0.07	0.01	0.00	0.03	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A 220	-0	810	0	0	0	19	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.03	0.00	0.00	--
1B 220	-0	815	0	0	0	20	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.03	0.00	0.00	--
1I 220	-0	805	0	0	0	18	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.03	0.00	0.00	--
1J 220	-0	820	0	0	0	21	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.03	0.00	0.00	--
2 220	-0	956	0	0	0	23	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.03	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

Nome travata: **fondaz_101_IP1** Descrizione: **Fondazione_101**
ASTA NUM. 4 NI 4 NF 6 SEZ. Rp B= 1.600 H= 0.600 (trave di fondazione)

armatura base = 4 X 2.01 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	x/d	Indice	resistenza	aswta	aswto	PASSO
	cm	kg			kg*m				cmq				Fx,M	Bielle	V,Mx	cmq/m	cm

1A 0	-0	-424	0	0	0	78	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B 0	-0	-422	0	0	0	77	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I 0	-0	-427	0	0	0	79	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J 0	-0	-419	0	0	0	76	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2 0	-0	-498	0	0	0	91	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.02	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A 6	-0	-424	0	0	0	78	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B 6	-0	-422	0	0	0	77	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I 6	-0	-427	0	0	0	79	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J 6	-0	-419	0	0	0	77	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2 6	-0	-498	0	0	0	91	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.02	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A 12	-0	-424	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B 12	-0	-422	0	0	0	141	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I 12	-0	-427	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J 12	-0	-419	0	0	0	140	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2 12	-0	-498	0	0	0	166	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.02	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A 18	-0	-330	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B 18	-0	-328	0	0	0	141	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I 18	-0	-332	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J 18	-0	-326	0	0	0	140	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2 18	-0	-387	0	0	0	166	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A 24	-0	-330	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B 24	-0	-328	0	0	0	141	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I 24	-0	-332	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J 24	-0	-326	0	0	0	140	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2 24	-0	-387	0	0	0	166	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A 30	-0	-236	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B 30	-0	-235	0	0	0	141	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I 30	-0	-237	0	0	0	142	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J 30	-0	-233	0	0	0	140	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2 30	-0	-277	0	0	0	166	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A 36	-0	-236	0	0	0	171	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1B 36	-0	-235	0	0	0	170	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1I 36	-0	-237	0	0	0	172	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
1J 36	-0	-233	0	0	0	169	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.01	0.00	0.00	--
2 36	-0	-277	0	0	0	201	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A 42	-0	-142	0	0	0	103	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1B 42	-0	-141	0	0	0	103	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1I 42	-0	-142	0	0	0	104	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
1J 42	-0	-140	0	0	0	102	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	--
2 42	-0	-166	0	0	0	121	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.01	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	48	-0	-142	0	0	0	95	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
1B	48	-0	-141	0	0	0	94	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
1I	48	-0	-142	0	0	0	95	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
1J	48	-0	-140	0	0	0	94	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
2	48	-0	-166	0	0	0	111	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.00	0.01	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	54	-0	-47	0	0	0	33	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
1B	54	-0	-47	0	0	0	32	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
1I	54	-0	-48	0	0	0	33	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
1J	54	-0	-47	0	0	0	32	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
2	54	-0	-55	0	0	0	38	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

1A	60	-0	-47	0	0	0	-30	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
1B	60	-0	-47	0	0	0	-30	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
1I	60	-0	-48	0	0	0	-30	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
1J	60	-0	-47	0	0	0	-29	4.02	4.02	20.11	20.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	--
2	60	-0	-55	0	0	0	-35	4.02	4.02	20.11	20.11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	--

apost= -- aant= -- ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01) staffe= 2 d 8 / 33.0

L E G E N D A

Prima asta	Ultima asta	Nome disegno	Descrizione disegno
1	4	fondaz_101_IP1.ARM	Fondazione_101

STAMPA SINTETICA (stampa degli elementi con massimo IR a presso-tenso-flessione (Fx, M), IR bielle (taglio))

PILASTRI

Gruppo	El.	NC	x cm	Fx, M IR	Bielle IR	Note
1	1	1A	0	0.00	--	
1	1	1A	0	--	0.00	

FONDAZIONI

Gruppo	El.	NC	x cm	Fx, M IR	Bielle IR	Note
1	2	2	22	0.01	--	
1	2	2	0	--	0.00	

VERIFICHE SLE

Lavoro: **SCARICATORE** Intestazione lavoro: **SCARICATORE BRINDISI**
 Elemento: **PILASTRO** Gruppo: **1** Tabella: **Tabella pilastri**
 Descrizione: **PILASTRI CA**
 Spunt. I **20.0** cm Spunt. J **20.0** cm
 Rck: **300.00** kg/cm² fyk: **4580.0** kg/cm² Condizioni ambientali: **Ordinaria**
 Copriferro di calcolo: **3.0** cm Copriferro di disegno: **3.0** cm
 Diametro staffe: **8** mm Numero braccia: **2**
 ρ min.: **1.000** %

ASTA NUM. 1 NI 2 NF 10 SEZ. Rp B= 0.600 H= 0.600 (pilastro)

PIL. NUM. 1

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

Fessurazione eseguita mediante calcolo indiretto. Se w fessurazione non è rispettata, viene aggiunta armatura e indicata fra le note laterali

NC	x	Fx	[Fy]	[Fz]	[Mx]	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf
	cm		kg			kg*m				cm ²		kg/cm ²	

4 0 -1455 0 0 0 0 0 10.78 10.78 10.78 10.78 -0.37 -5.6

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54)

4 48 -1028 0 0 0 -0 0 10.78 10.78 10.78 10.78 -0.26 -3.9

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54)

4 95 -600 0 0 0 -0 0 10.78 10.78 10.78 10.78 -0.15 -2.3

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54)

ASTA NUM. 2 NI 3 NF 9 SEZ. Rp B= 0.600 H= 0.600 (pilastro)

PIL. NUM. 2

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

Fessurazione eseguita mediante calcolo indiretto. Se w fessurazione non è rispettata, viene aggiunta armatura e indicata fra le note laterali

NC	x	Fx	[Fy]	[Fz]	[Mx]	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf
	cm		kg			kg*m				cm ²		kg/cm ²	

4 0 -1455 -0 0 0 0 0 10.78 10.78 10.78 10.78 -0.37 -5.6

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54)

4 48 -1028 -0 0 0 -0 0 10.78 10.78 10.78 10.78 -0.26 -3.9

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54)

4 95 -600 -0 0 0 -0 0 10.78 10.78 10.78 10.78 -0.15 -2.3

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54)

ASTA NUM. 3 NI 4 NF 8 SEZ. Rp B= 0.600 H= 0.600 (pilastro)

PIL. NUM. 3

armatura base = 4 X 1.54 per le armature aggiuntive consultare il tabulato

Fessurazione eseguita mediante calcolo indiretto. Se w fessurazione non è rispettata, viene aggiunta armatura e indicata fra le note laterali

NC	x	Fx	[Fy]	[Fz]	[Mx]	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf
	cm		kg			kg*m				cm ²		kg/cm ²	

4 0 -1455 -0 0 0 0 0 10.78 10.78 10.78 10.78 -0.37 -5.6

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54)

4 48 -1028 -0 0 0 -0 0 10.78 10.78 10.78 10.78 -0.26 -3.9

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54)

4 95 -600 -0 0 0 -0 0 10.78 10.78 10.78 10.78 -0.15 -2.3

apost= 7.70 aant= 7.70 ainf= 7.70 asup= 7.70 (e arm. base= 4 X 1.54)

L E G E N D A

Prima asta	Ultima asta	Nome disegno	Descrizione disegno
1	3	SCARICATORE0001_IP1.YPI	PILASTRI CA

AMV s.r.l.
Via San Lorenzo, 106 **Tel. 0481/779903**
34077 Ronchi dei Legionari (GO)

Lavoro: **SCARICATORE** Intestazione lavoro: **SCARICATORE BRINDISI**
Elemento: **TRAVE DI FONDAZIONE** Gruppo: **1** Tabella: **Tabella fondazioni**
Descrizione: **FONDAZIONE**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm² fyk: **4580.0** kg/cm² Condizioni ambientali: **Ordinaria**
Copriferro: **4.0** cm
Diametro staffe: **8** mm Numero braccia: **2**

Nome travata: **fondaz_101_IP1** Descrizione: **Fondazione_101**
ASTA NUM. 1 NI 1 NF 2 SEZ. Rp B= 1.600 H= 0.600 (trave di fondazione)

armatura base = 4 X 2.01 per le armature aggiuntive consultare il tabulato

NC	x	[Fx]	[Fy]	[Fz]	[Mx]	[My]	Mz	[APOST]	[AANT]	AINF	ASUP	Sc	Sf	w
	cm	kg			kg*m			cm ²			kg/cm ²		mm	
4	0	-0	47	0	0	0	0	4.02	4.02	20.11	20.11	-0.00	-0.0	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	6	-0	47	0	0	0	3	4.02	4.02	20.11	20.11	-0.00	0.0	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	12	-0	141	0	0	0	6	4.02	4.02	20.11	20.11	-0.00	0.0	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	18	-0	141	0	0	0	14	4.02	4.02	20.11	20.11	-0.01	0.1	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	24	-0	235	0	0	0	23	4.02	4.02	20.11	20.11	-0.02	0.2	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	30	-0	235	0	0	0	37	4.02	4.02	20.11	20.11	-0.03	0.2	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	36	-0	329	0	0	0	51	4.02	4.02	20.11	20.11	-0.04	0.3	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	42	-0	329	0	0	0	71	4.02	4.02	20.11	20.11	-0.06	0.5	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	48	-0	423	0	0	0	90	4.02	4.02	20.11	20.11	-0.07	0.6	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	54	-0	423	0	0	0	116	4.02	4.02	20.11	20.11	-0.10	0.8	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	60	-0	423	0	0	0	78	4.02	4.02	20.11	20.11	-0.06	0.5	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						

Nome travata: **fondaz_101_IP1** Descrizione: **Fondazione_101**
ASTA NUM. 2 NI 2 NF 3 SEZ. Rp B= 1.600 H= 0.600 (trave di fondazione)

armatura base = 4 X 2.01 per le armature aggiuntive consultare il tabulato

NC	x	[Fx]	[Fy]	[Fz]	[Mx]	[My]	Mz	[APOST]	[AANT]	AINF	ASUP	Sc	Sf	w
	cm	kg			kg*m			cm ²			kg/cm ²		mm	
4	0	-0	-813	0	0	0	19	4.02	4.02	20.11	20.11	-0.02	0.1	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	22	-0	-813	0	0	0	-38	4.02	4.02	20.11	20.11	-0.03	0.3	0.00
apost= --		aant= --		ainf= 16.08		asup= 16.08		(e arm. base= 4 X 2.01)						
4	44	-0	-813	0	0	0	-216	4.02	4.02	20.11	20.11	-0.18	1.5	0.00

apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	66	-0	-469	0	0	0	-320	4.02	4.02	20.11	20.11	-0.26	2.2	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	88	-0	-469	0	0	0	-423	4.02	4.02	20.11	20.11	-0.35	2.9	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	110	-0	-127	0	0	0	-451	4.02	4.02	20.11	20.11	-0.37	3.1	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	132	-0	215	0	0	0	-479	4.02	4.02	20.11	20.11	-0.39	3.2	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	154	-0	215	0	0	0	-432	4.02	4.02	20.11	20.11	-0.36	2.9	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	176	-0	557	0	0	0	-384	4.02	4.02	20.11	20.11	-0.32	2.6	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	198	-0	557	0	0	0	-262	4.02	4.02	20.11	20.11	-0.22	1.8	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	220	-0	557	0	0	0	-139	4.02	4.02	20.11	20.11	-0.11	0.9	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												

Nome travata: **fondaz_101_IP1** Descrizione: **Fondazione_101**
ASTA NUM. 3 NI 3 NF 4 SEZ. Rp B= 1.600 H= 0.600 (trave di fondazione)

armatura base = 4 X 2.01 per le armature aggiuntive consultare il tabulato

NC	x	[Fx]	[Fy]	[Fz]	[Mx]	[My]	Mz	[APOST]	[AANT]	AINF	ASUP	Sc	Sf	w
	cm	kg			kg*m			cm ²			kg/cm ²		mm	
4	0	-0	-557	0	0	0	-139	4.02	4.02	20.11	20.11	-0.11	0.9	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	22	-0	-557	0	0	0	-262	4.02	4.02	20.11	20.11	-0.22	1.8	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	44	-0	-557	0	0	0	-384	4.02	4.02	20.11	20.11	-0.32	2.6	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	66	-0	-215	0	0	0	-432	4.02	4.02	20.11	20.11	-0.36	2.9	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	88	-0	-215	0	0	0	-479	4.02	4.02	20.11	20.11	-0.39	3.2	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	110	-0	127	0	0	0	-451	4.02	4.02	20.11	20.11	-0.37	3.1	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	132	-0	469	0	0	0	-423	4.02	4.02	20.11	20.11	-0.35	2.9	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	154	-0	469	0	0	0	-320	4.02	4.02	20.11	20.11	-0.26	2.2	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	176	-0	813	0	0	0	-216	4.02	4.02	20.11	20.11	-0.18	1.5	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	198	-0	813	0	0	0	-38	4.02	4.02	20.11	20.11	-0.03	0.3	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												
4	220	-0	813	0	0	0	19	4.02	4.02	20.11	20.11	-0.02	0.1	0.00
apost= --	aant= --	ainf= 16.08 asup= 16.08 (e arm. base= 4 X 2.01)												

Nome travata: **fondaz_101_IP1** Descrizione: **Fondazione_101**
ASTA NUM. 4 NI 4 NF 6 SEZ. Rp B= 1.600 H= 0.600 (trave di fondazione)

armatura base = 4 X 2.01 per le armature aggiuntive consultare il tabulato

NC	x	[Fx]	[Fy]	[Fz]	[Mx]	[My]	Mz	[APOST]	[AANT]	AINF	ASUP	Sc	Sf	w
	cm	kg			kg*m			cm ²				kg/cm ²	mm	
4	0	-0	-423	0	0	0	78	4.02	4.02	20.11	20.11	-0.06	0.5	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	6	-0	-423	0	0	0	78	4.02	4.02	20.11	20.11	-0.06	0.5	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	12	-0	-423	0	0	0	90	4.02	4.02	20.11	20.11	-0.07	0.6	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	18	-0	-329	0	0	0	71	4.02	4.02	20.11	20.11	-0.06	0.5	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	24	-0	-329	0	0	0	51	4.02	4.02	20.11	20.11	-0.04	0.3	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	30	-0	-235	0	0	0	37	4.02	4.02	20.11	20.11	-0.03	0.2	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	36	-0	-235	0	0	0	23	4.02	4.02	20.11	20.11	-0.02	0.2	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	42	-0	-141	0	0	0	14	4.02	4.02	20.11	20.11	-0.01	0.1	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	48	-0	-141	0	0	0	6	4.02	4.02	20.11	20.11	-0.00	0.0	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	54	-0	-47	0	0	0	3	4.02	4.02	20.11	20.11	-0.00	0.0	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						
4	60	-0	-47	0	0	0	0	4.02	4.02	20.11	20.11	-0.00	-0.0	0.00
apost=	--	aant=	--	ainf=	16.08	asup=	16.08	(e arm. base= 4 X 2.01)						

L E G E N D A

Prima asta	Ultima asta	Nome disegno	Descrizione disegno
1	4	fondaz_101_IP1.ARM	Fondazione_101