IMPIANTO AGRIVOLTAICO DENOMINATO "PV GROTTAGLIE" CON POTENZA NOMINALE DI 35,3276 MVA E POTENZA INSTALLATA DI 39.807,6 MWp

REGIONE PUGLIA

PROVINCIA di TARANTO
COMUNE di GROTTAGLIE
OPERE DI CONNESSIONE ALLA RTN NEI COMUNI DI GROTTAGLIE E TARANTO

PROGETTO DEFINITIVO

Tav.:	Titolo:
R17b.6	Relazione strutturale - SCARICATORE

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

Progettazione:

Dott. Ing. Fabio CALCARELLA
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ORDINE INGEGNERI DELLA PROVINCIA DI LECCE
Dott. Ing. FABIO CALCARELLA
N° 1874

Committente:

PV - INVEST ITALIA S.R.L.
Indirizzo: Via Sant'Osvaldo, 67 - 39100 Bolzano (BZ)
P.IVA: 03047190214 - REA: BZ - 227293
PEC: pvinvestitaliasrl@legalmail.it

Data	Motivo della revisione:	Redatto:	Controllato:	Approvato:
Settembre 2024	Prima emissione	STC	FC	PV - INVEST ITALIA s.r.l.

DATI DI PROGETTO

INTESTAZIONE E DATI CARATTERISTICI DELLA STRUTTURA

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

Normativa	NTC-2018

NORMATIVA

Vita nominale costruzione	50 anni
Classe d'uso costruzione	I
Vita di riferimento	35 anni
Localita'	Grottaglie - Agrovoltaico
Longitudine (WGS84)	17.261153
Latitudine (WGS84)	40.292472
Categoria del suolo	C

Coefficiente topografico	1

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

Periodo proprio T1 in direzione X	8.486

Periodo proprio T1 in direzione Y	8.486

Comportamento strutturale	NON Dissipativo

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

STATO LIMITE DI DANNO

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

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

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 GROTTAGLIE**
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	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

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 GROTTAGLIE**
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				cmq			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	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	-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	--
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	--
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	--
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	--
2	48	-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	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	--
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	--
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	--
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	--
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	--

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	--
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	--
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	--
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	--
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	--

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	Fx, M	Bielle	Note
			--	-----	------	
			cm	IR	IR	
1	1	1A	0	0.00	--	
1	1	1A	0	--	0.00	

FONDAZIONI

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

VERIFICHE SLE

Lavoro: **SCARICATORE** Intestazione lavoro: **SCARICATORE GROTTAGLIE**
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			cm²				kg/cm²	
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			cm²				kg/cm²	
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			cm²				kg/cm²	
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

Lavoro: **SCARICATORE** Intestazione lavoro: **SCARICATORE GROTTAGLIE**
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/cm^2 fyk: **4580.0** kg/cm^2 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