autostrade per l'italia

NODO STRADALE E AUTOSTRADALE DI GENOVA

Adeguamento del sistema
A7 - A10 - A12

Lotto 10 - Appalto Misto di Forniture Specialistiche
per Area Silos e Slurrydotto

PROGETTO DI FORNITURA
PER IMPIANTI DI GESTIONE TERRE

IMPIANTI

IMPIANTO DI TRATTAMENTO DELLE ACQUE CI004

TIPICI SUPPORTI TUBAZIONI

	IL RESPONSABILE INTEGRAZIONE PRESTAZIONI SPECIALISTICHE	IL DIRETTORE TECNICO
	Ing. Lorenzo Messina Ord. Ingg. Torino n.12106K	Ing. Orlando Mazza Ord. Ingg. Pavia N. 1496 PROGETTAZIONE NUOVE OPERE AUTOSTRADALI

CODICE IDENTIFICATIVO											ORDINATORE
RIFERIMENTO PROGETTO			RIFERIMENTO DIRETTORIO				RIFERIMENTO ELABORATO				
Codice Commessa	Lotto, Sub-Prog, Cod. Appalto	Fase	Capitolo	Paragrafo	W B S	Parte d'opera	Tip.	Disciplina	Progressivo	Rev.	
110730	LL10	FS	O3	IMP	ID001	TUB00	D	OPT	0288	-0	SCALA 1:1

spea ENGINEERING gruppo Atlantia	PROJECT MANAGER: Ing. Sara Frisiani Ord. Ingg. Genova N. 9810A	SUPPORTO SPECIALISTICO: amec foster wheeler	REVISIONE n. 0 — data LUGLIO 2018
	REDATTO:	VERIFICATO:	

	VISTO DEL COMMITTENTE	VISTO DEL CONCEDENTE
	autostrade per l'italia IL RESPONSABILE UNICO DEL PROCEDIMENTO Ing. Alberto Selleri	Ministero delle Infrastrutture e dei Trasporti DIPARTIMENTO PER LE INFRASTRUTTURE, GLI AFFARI GENERALI ED IL PERSONALE STRUTTURA DI VIGILANZA SULLE CONCESSIONARIE AUTOSTRADALI

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4.0 DISEGNI STANDARD

1.0 ELENCO DISEGNI STANDARD

DESCRIZIONE	TIPO	FOGLIO	REV.
COVER SHEET		001	0
INDICE		002	0
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SCARPETTA	SCA	005	0
SCARPETTA	SCA	006	0
SCARPETTA	SCB	007	0
SCARPETTA	SCB	008	0
SCARPETTA	SCC	009	0
SCARPETTA	SCC	010	0
SCARPETTA	SCD	011	0
SCARPETTA	SCD	012	0
MENSOLA	MEA	013	0
MENSOLA	MEB	014	0
MENSOLA	MEF	015	0
MENSOLA	MEG	016	0
PALINA	S01	017	0
PALINA	S02	018	0
PALINA	S03	019	0
PORTALE	S04	020	0
PORTALE	S05	021	0
PORTALE	S06	022	0
PORTALE	S07	023	0
TRAVI AUSILIARIE	S08	024	0
FALSO TUBO	FTA	025	0
FALSO TUBO	FTB	026	0
FALSO TUBO	FTC	027	0
FALSO TUBO	FTS	028	0
APPOGGIO FISSO	AFA	029	0
APPOGGIO FISSO	AFC	030	0
APPOGGIO REGISTRABILE	ARA	031	0
APPOGGIO REGISTRABILE	ARB	032	0
APPOGGIO REGISTRABILE	ARE	033	0
APPOGGIO REGISTRABILE	ARF	034	0
APPOGGIO CON STOP ASSIALE	AGB	035	0
APPOGGIO CON STOP ASSIALE	AGB	036	0
APPOGGIO CON STOP ASSIALE	AGB	037	0
APPOGGIO CON GUIDA LATERALE	AGC	038	0
APPOGGIO CON GUIDA LATERALE	AGC	039	0
APPOGGIO CON GUIDA LATERALE	AGE	040	0

DESCRIZIONE	TIPO	FOGLIO	REV.
APPOGGIO CON GUIDA LATERALE	AGF	041	0
APPOGGIO CON GUIDA LATERALE	AGI	042	0
APPOGGIO CON STOP E GUIDA	ANA	043	0
APPOGGIO CON STOP E GUIDA	ANB	044	0
ANGOLARI PER GUIDE O STOP	ANP	045	0
ANGOLARI PER GUIDE O STOP	ANQ	046	0
ANGOLARI PER GUIDE O STOP	ANR	047	0
PLINTO PER APPOGGIO	PFA	048	0
PIASTRE PER MENSOLE	PTM	049	0
PIASTRA DI SCORRIMENTO	PSA	050	0
CAVALLOTTO	CVA	051	0
COLLARE	CLA	052	0
COLLARE	CLA	053	0
COLLARE	CLB	054	0
COLLARE	CLB	055	0
TIRANTE FILETTATO	TRA	056	0
TIRANTE FILETTATO	TRB	057	0
TIRANTE FILETTATO	TRC	058	0
TIRANTE FILETTATO	TRD	059	0
TIRANTE FILETTATO	TRE	060	0
COMPONENTE	HCA	060	0
COMPONENTE	HCB	061	0
COMPONENTE	HCC	061	0
COMPONENTE	HCD	061	0
COMPONENTE	FCL	062	0
GOLFARE	GLF	063	0

2.0 NOTE GENERALI

2.1 ALLO SCOPO DI FACILITARE LA RAPPRESENTAZIONE E L'ESECUZIONE DEI DISEGNI COSTRUTTIVI DEI SUPPORTI E' STATA PRODOTTA LA SEGUENTE RACCOLTA.

2.2 QUESTA RACCOLTA DOVRA' SERVIRE DA GUIDA PER:

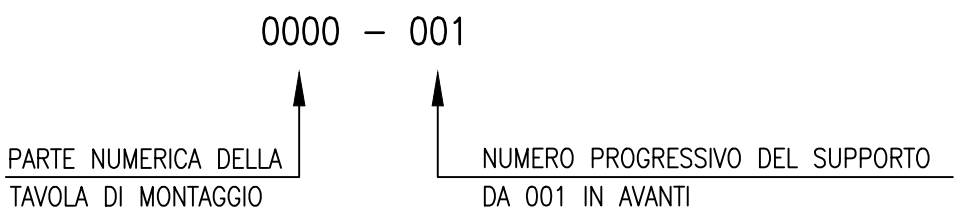
- IL PROGETTISTA, ALLO SCOPO DI DEFINIRE IL TIPO DI SUPPORTO
- IL COSTRUTTORE, CHE UTILIZZERA' I TIPICI DI SUPPORTAZIONE PER I DATI DIMENSIONALI DI COSTRUZIONE.

2.3 I SUPPORTI NON INCLUSI IN QUESTA RACCOLTA SARANNO DISEGNATI CASO PER CASO (SUPPORTI SPECIALI).

3.0 DESCRIZIONE

3.1 LA PRESENTE STANDARDIZZAZIONE PERMETTE LA SCELTA DEI SUPPORTI IN BASE AI CARICHI, AGLI SPOSTAMENTI ED AL DIAMETRO DELLA LINEA DA SUPPORTARE.

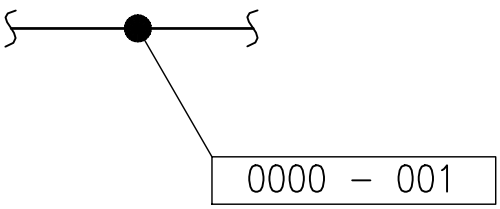
3.2 IL SUPPORTO COMPLETO SARA' IDENTIFICATO PER MEZZO DI UNA MARCA DEFINITA COME DAL SEGUENTE ESEMPIO:



3.3 SE NON DIVERSAMENTE SPECIFICATO, LE LUNGHEZZE E LE ELEVAZIONI SONO ESPRESSE IN MILLIMETRI.

3.4 OGNI COMPONENTE DEL SUPPORTO DOVRA' ESSERE OPPORTUNAMENTE IDENTIFICATA MEDIANTE PUNZONATURA O TARGA INDICANTE IL TIPO DI COMPONENTE.

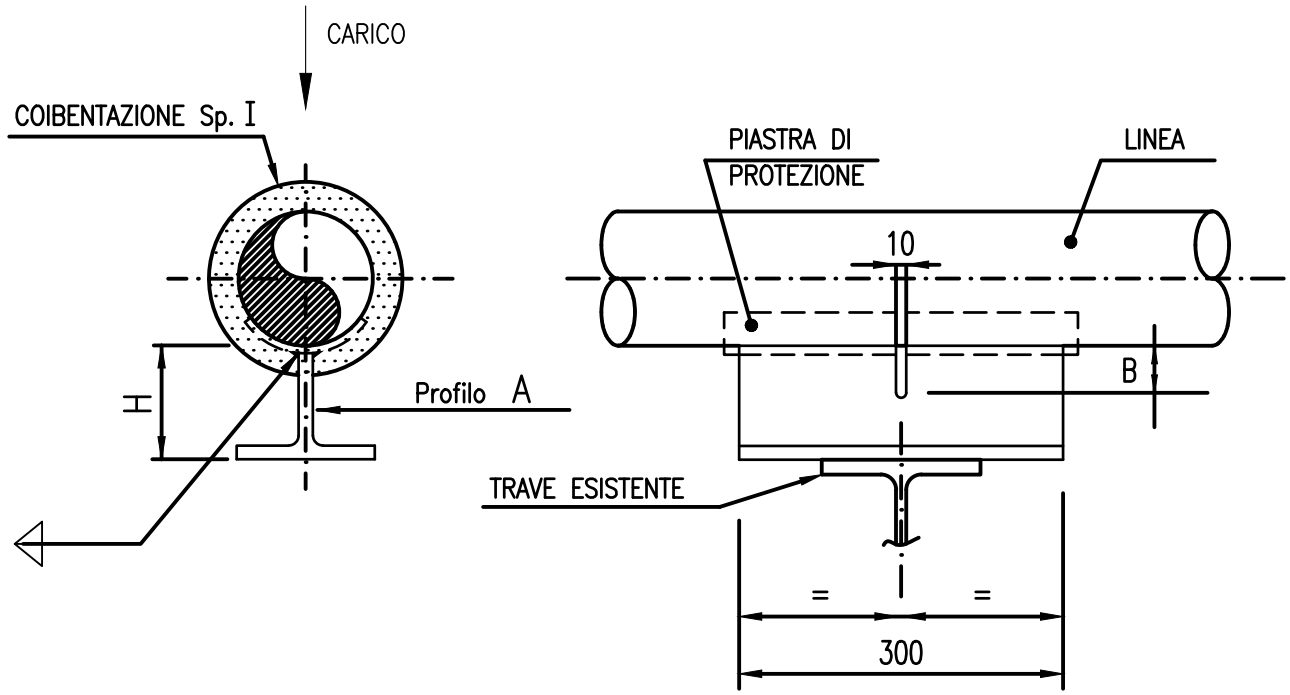
3.5 SIMBOLOGIA SUPPORTI (DA INDICARE NELLA MARCATURA):



SCARPETTA TIPO SCA

LUNGHEZZA = 300

(PER LINEE IN ACC. AL CARBONIO COIBENTATE ø 1/2"÷8")



ESEMPIO DI DESIGNAZIONE:

SCA-05/100

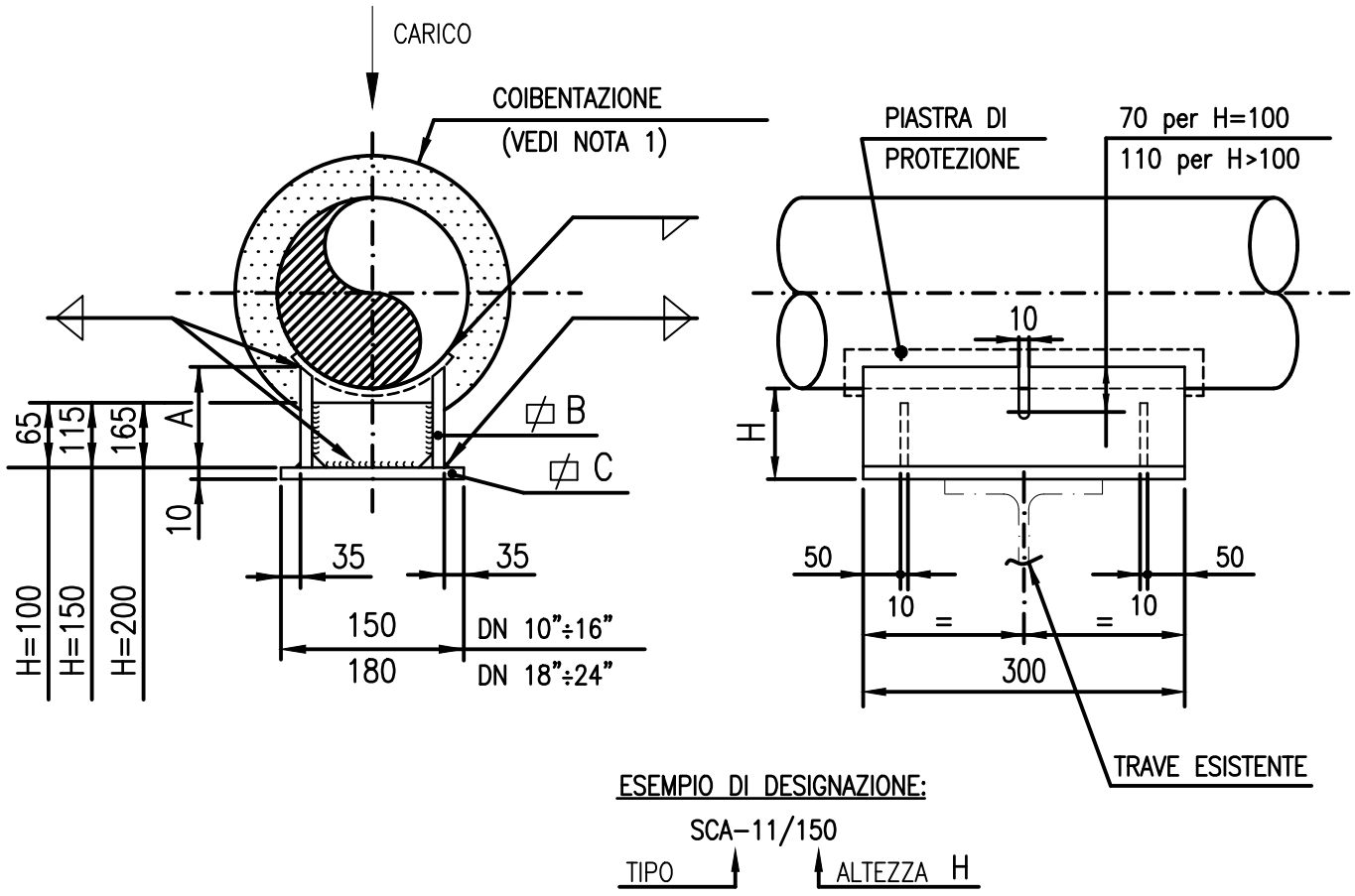
TIPO — ALTEZZA H

TIPO	DN	H	PROFILO A	I MAX	B	CARICO MAX kg	PESO kg
SCA-01	1/2"	100	T 100x11	80	40		4.9
SCA-02	3/4"	100	T 100x11	80	40		4.9
SCA-03	1"	100	T 100x11	80	40		4.9
SCA-04	1 1/2"	100	T 100x11	80	40		4.9
SCA-05	2"	100	T 100x11	80	70		4.9
SCA-06	3"	100	T 100x11	80	70		4.9
SCA-07	4"	100	T 100x11	80	70	1500	4.9
SCA-08	6"	100	T 100x11	80	70		4.9
SCA-09	8"	100	T 100x11	80	70		4.9

SCARPETTA TIPO SCA

LUNGHEZZA = 300

(PER LINEE IN ACC. AL CARBONIO COIBENTATE ø 10"÷24")



ESEMPIO DI DESIGNAZIONE:

SCA–11/150

TIPO — ALTEZZA H

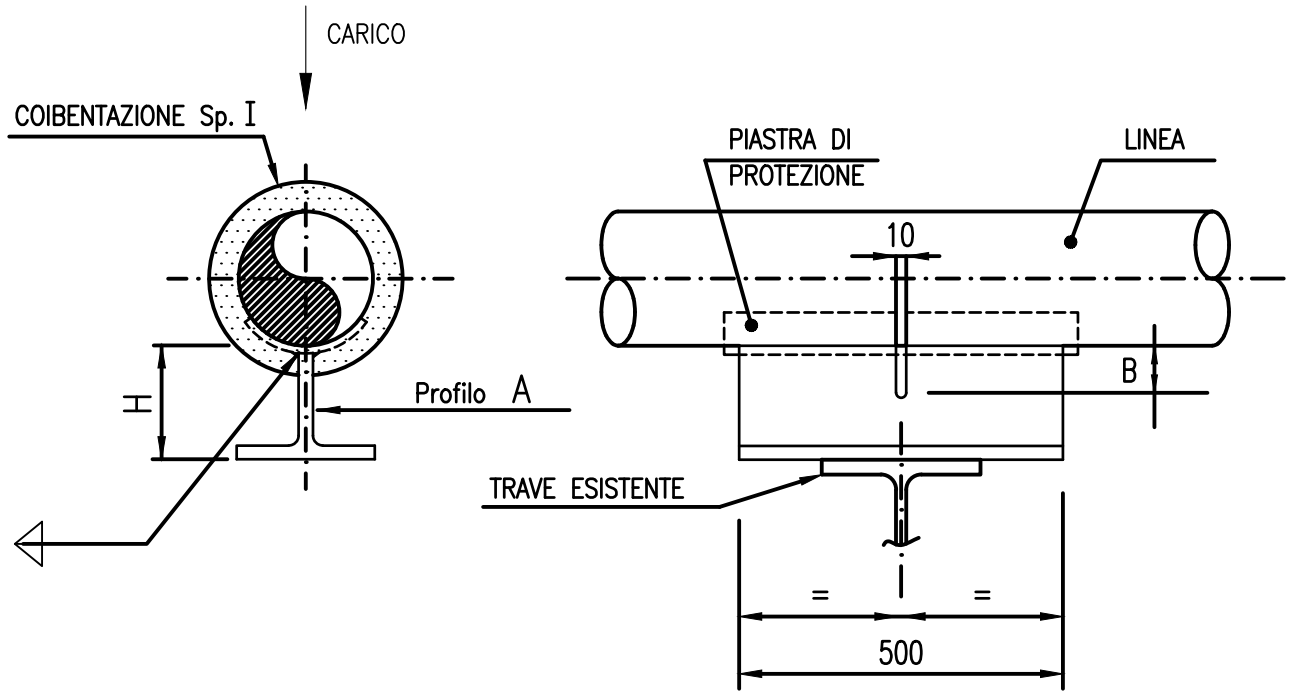
TIPO	DN	H												CARICO MAX kg
		100				150				200				
		A	⌀ B	⌀ C	kg	A	⌀ B	⌀ C	kg	A	⌀ B	⌀ C	kg	
SCA–10	10"	98	300x10	300x10	12	148	300x10	300x10	15	198	300x10	300x10	17	5000
SCA–11	12"	95	300x10	300x10	12	145	300x10	300x10	15	187	300x10	300x10	17	
SCA–12	14"	94	300x10	300x10	12	144	300x10	300x10	15	194	300x10	300x10	17	
SCA–13	16"	90	300x10	300x10	12	140	300x10	300x10	15	190	300x10	300x10	17	
SCA–14	18"	94	300x10	300x10	13	144	300x10	300x10	16	194	300x10	300x10	19	
SCA–15	20"	92	300x10	300x10	13	142	300x10	300x10	16	192	300x10	300x10	19	8000
SCA–16	24"	90	300x10	300x10	13	140	300x10	300x10	16	190	300x10	300x10	19	

NOTA 1: SPESSORE COIBENTAZIONE MAX = 80 mm CON H = 100
SPESSORE COIBENTAZIONE MAX = 130 mm CON H = 150
SPESSORE COIBENTAZIONE MAX = 175 mm CON H = 200

SCARPETTA TIPO SCB

LUNGHEZZA = 500

(PER LINEE IN ACC. AL CARBONIO COIBENTATE ø 1/2"÷8")



ESEMPIO DI DESIGNAZIONE:

SCA–07/100

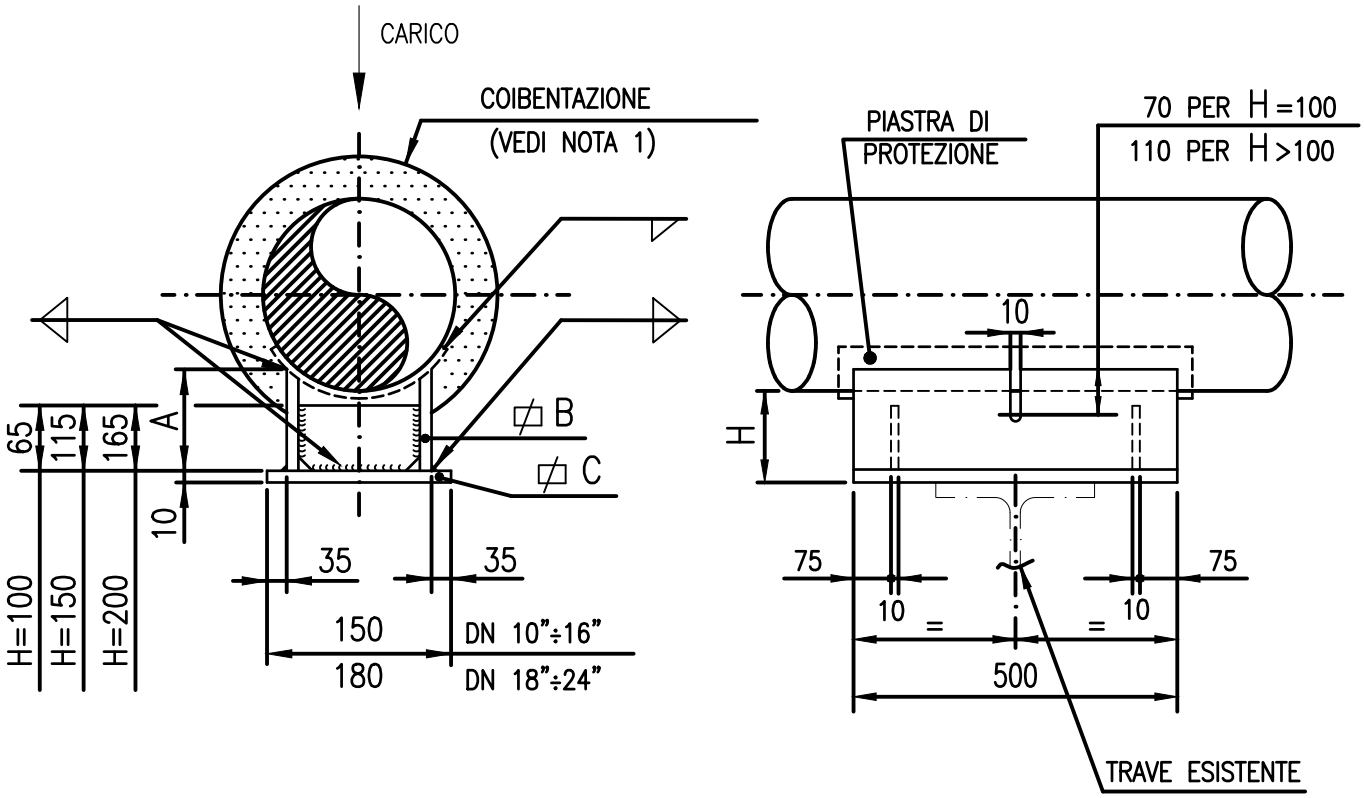
TIPO — ALTEZZA H

TIPO	DN	H	PROFILO A	I MAX	B	CARICO MAX kg	PESO kg
SCA–01	1/2"	100	T 100x11	80	40		8.2
SCA–02	3/4"	100	T 100x11	80	40		8.2
SCA–03	1"	100	T 100x11	80	40		8.2
SCA–04	1 1/2"	100	T 100x11	80	40		8.2
SCA–05	2"	100	T 100x11	80	70		8.2
SCA–06	3"	100	T 100x11	80	70		8.2
SCA–07	4"	100	T 100x11	80	70	1500	8.2
SCA–08	6"	100	T 100x11	80	70		8.2
SCA–09	8"	100	T 100x11	80	70		8.2

SCARPETTA TIPO SCB

LUNGHEZZA = 500

(PER LINEE IN ACC. AL CARBONIO COIBENTATE ø 10"÷24")



ESEMPIO DI DESIGNAZIONE:

SCB–11/150

TIPO — ALTEZZA H

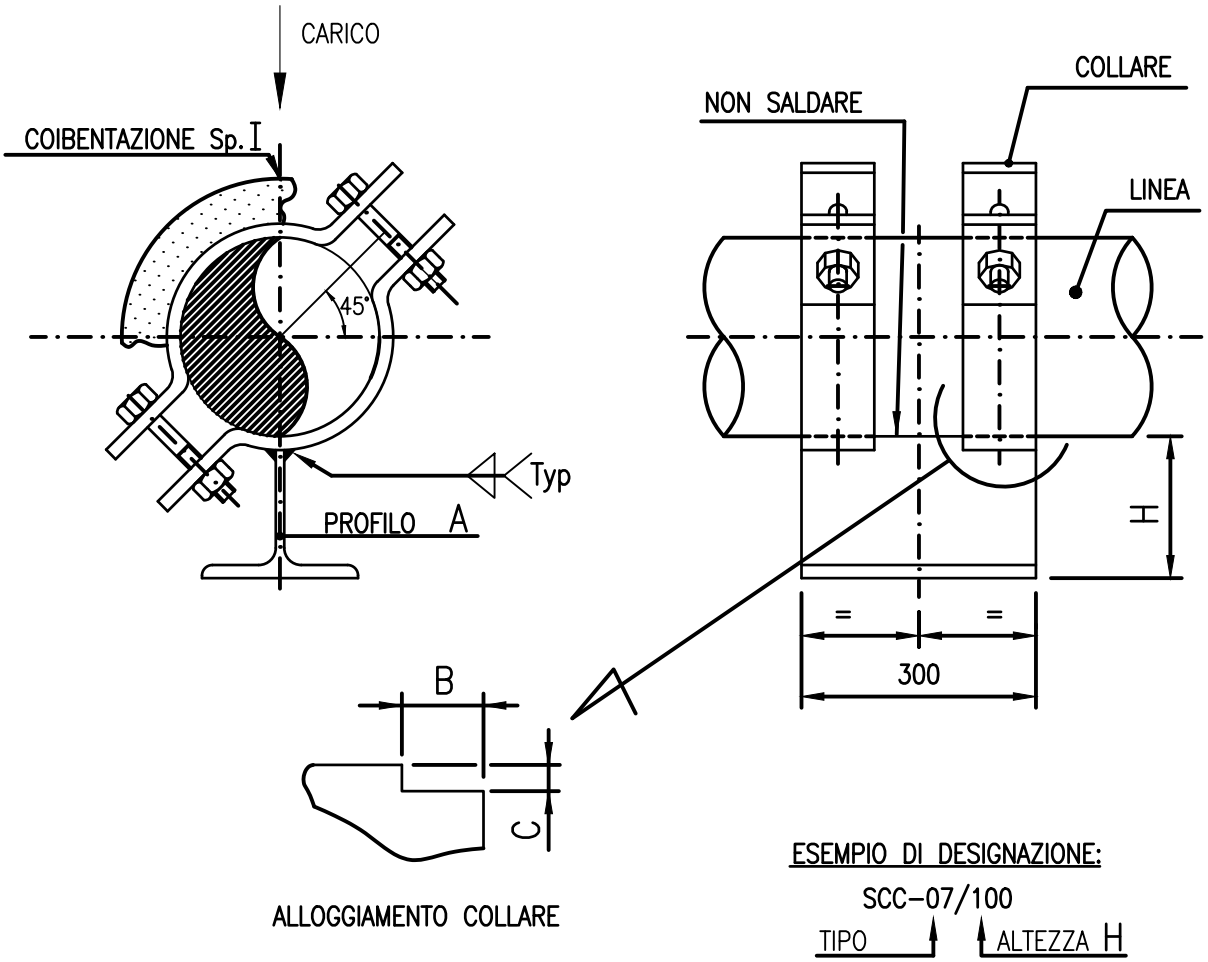
TIPO	DN	H												CARICO MAX kg
		100				150				200				
		A	⌀B	⌀C	kg	A	⌀B	⌀C	kg	A	⌀B	⌀C	kg	
SCB–10	10"	98	500x10	500x10	18	148	500x10	500x10	22	198	500x10	500x10	26	5000
SCB–11	12"	95	500x10	500x10	18	145	500x10	500x10	22	187	500x10	500x10	26	
SCB–12	14"	94	500x10	500x10	18	144	500x10	500x10	22	194	500x10	500x10	26	
SCB–13	16"	90	500x10	500x10	18	140	500x10	500x10	22	190	500x10	500x10	26	
SCB–14	18"	94	500x10	500x10	20	144	500x10	500x10	24	194	500x10	500x10	28	
SCB–15	20"	92	500x10	500x10	20	142	500x10	500x10	24	192	500x10	500x10	28	8000
SCB–16	24"	90	500x10	500x10	20	140	500x10	500x10	24	190	500x10	500x10	28	

NOTA 1: SPESSORE COIBENTAZIONE MAX = 80 mm CON H = 100
SPESSORE COIBENTAZIONE MAX = 130 mm CON H = 150
SPESSORE COIBENTAZIONE MAX = 175 mm CON H = 200

SCARPETTA TIPO SCC

LUNGHEZZA = 300

(PER LINEE COIBENTATE ø "1/2"÷8")



ALLOGGIAMENTO COLLARE

ESEMPIO DI DESIGNAZIONE:

SCC–07/100

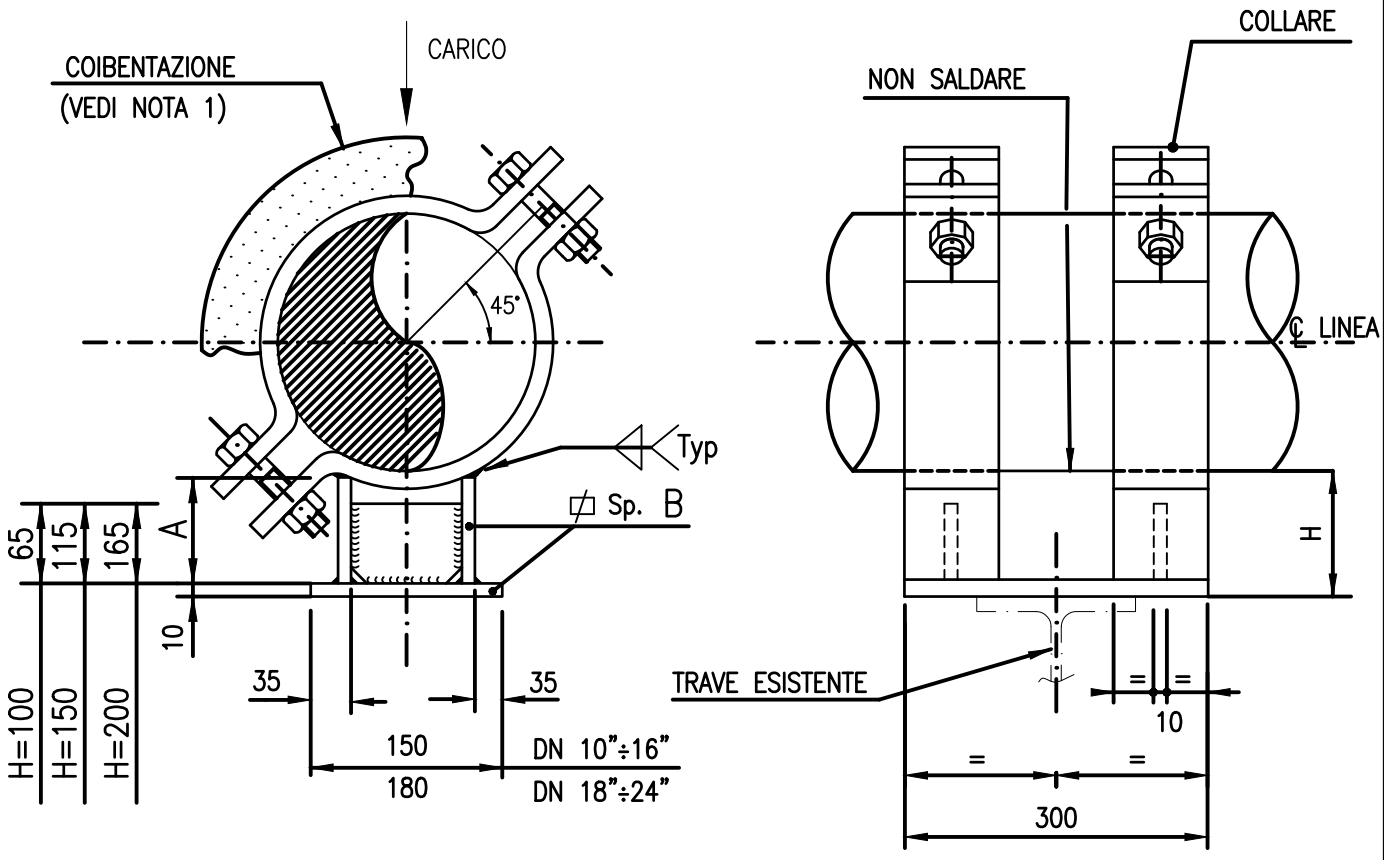
TIPO — ALTEZZA H

TIPO	DN	CARICO MAX kg	H	PROFILO A	B	C	I MAX	COLLARE TIPO	PESO kg
SCC–01	1/2"	700	100	T 100x11	35	4	50	CLA–01	6.3
SCC–02	3/4"		100	T 100x11	35	4	50	CLA–02	6.5
SCC–03	1"		100	T 100x11	35	4	50	CLA–03	6.7
SCC–04	1 1/2"		100	T 100x11	35	4	50	CLA–04	6.9
SCC–05	2"	1500	100	T 100x11	60	6	80	CLA–05	7.0
SCC–06	3"		100	T 100x11	60	6	80	CLA–06	9.0
SCC–07	4"		100	T 100x11	60	6	80	CLA–07	9.5
SCC–08	6"		100	T 100x11	100	6	80	CLA–08	17
SCC–09	8"		100	T 100x11	100	8	80	CLA–09	20

SCARPETTA TIPO SCC

LUNGHEZZA = 300

(PER LINEE COIBENTATE ø 10"÷24")



ESEMPIO DI DESIGNAZIONE:

SCC–12/200

TIPO — ALTEZZA H

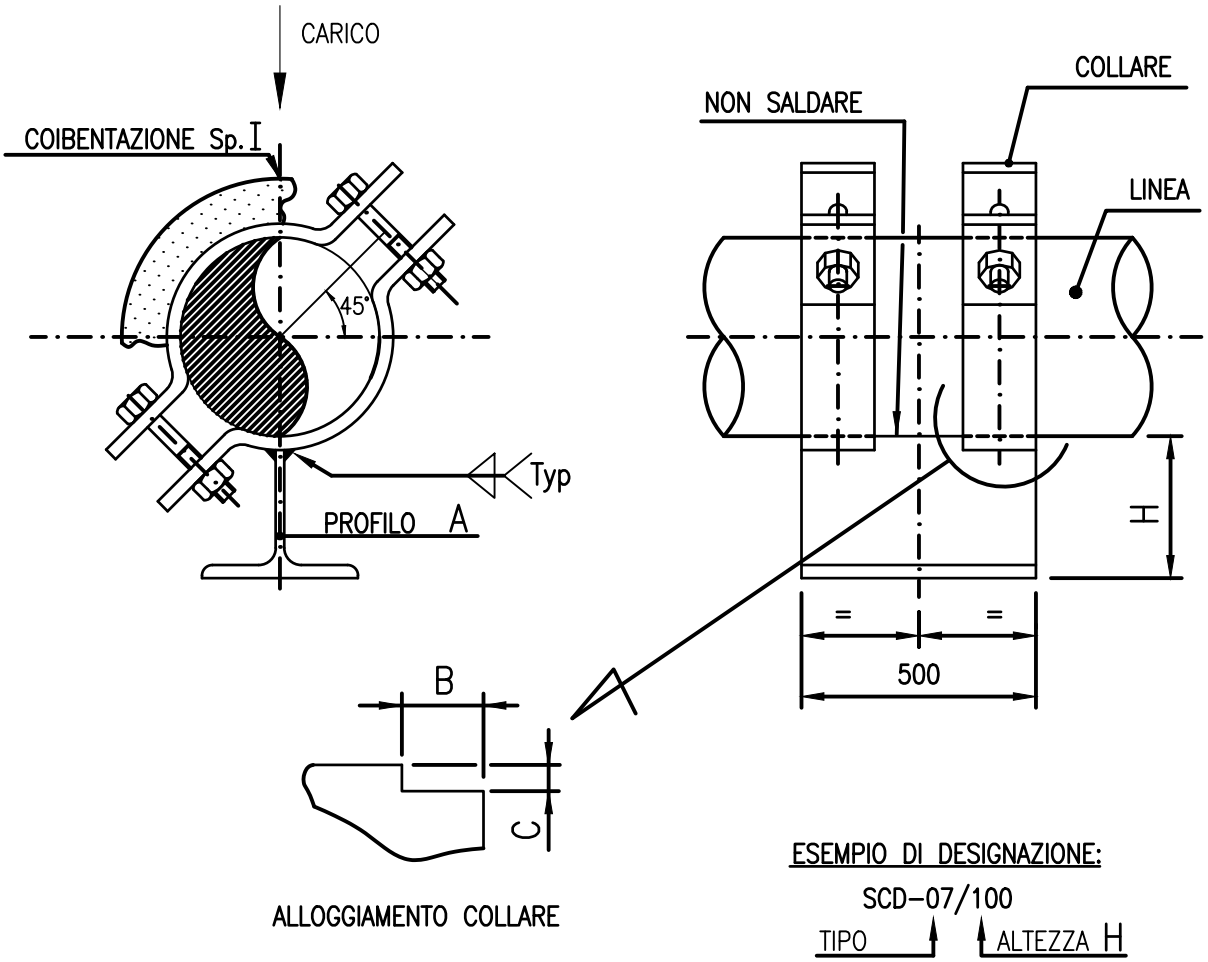
TIPO	DN	H									CARICO MAX kg	COLLARE TIPO
		100			150			200				
		A	⏍ B	PESO kg	A	⏍ B	PESO kg	A	⏍ B	PESO kg		
SCC–10	10"	98	300x10	50	148	300x10	53	198	300x10	56	5000	CLA–10
SCC–11	12"	95	300x10	54	145	300x10	195	187	300x10	59		CLA–11
SCC–12	14"	94	300x10	90	144	300x10	93	194	300x10	96		CLA–12
SCC–13	16"	90	300x10	96	140	300x10	98	190	300x10	101		CLA–13
SCC–14	18"	94	300x10	109	144	300x10	113	194	300x10	116		CLA–14
SCC–15	20"	92	300x10	116	142	300x10	120	192	300x10	122	8000	CLA–15
SCC–16	24"	90	300x10	152	140	300x10	156	190	300x10	159		CLA–16

NOTA 1: SPESSORE COIBENTAZIONE MAX = 80 mm CON H = 100
SPESSORE COIBENTAZIONE MAX = 130 mm CON H = 150
SPESSORE COIBENTAZIONE MAX = 175 mm CON H = 200

SCARPETTA TIPO SCD

LUNGHEZZA = 500

(PER LINEE COIBENTATE ø "1/2"÷8")



ALLOGGIAMENTO COLLARE

ESEMPIO DI DESIGNAZIONE:

SCD–07/100

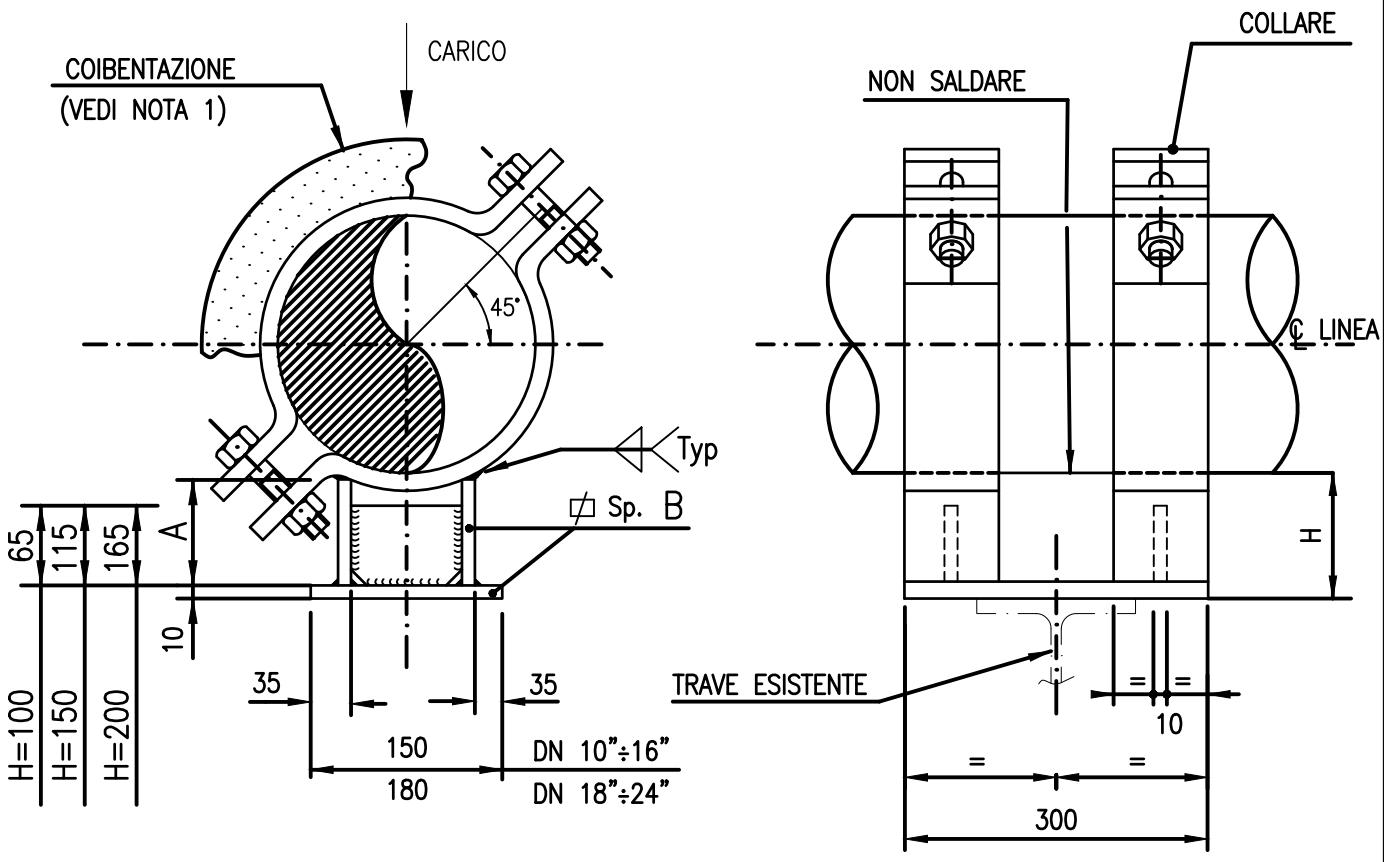
TIPO — ALTEZZA H

TIPO	DN	CARICO MAX kg	H	PROFILO A	B	C	I MAX	COLLARE TIPO	PESO kg
SCD–01	1/2"	700	100	T 100x11	35	4	50	CLA–01	9,6
SCD–02	3/4"		100	T 100x11	35	4	50	CLA–02	9,8
SCD–03	1"		100	T 100x11	35	4	50	CLA–03	10
SCD–04	1 1/2"		100	T 100x11	35	4	50	CLA–04	10.2
SCD–05	2"	1500	100	T 100x11	60	6	80	CLA–05	10.2
SCD–06	3"		100	T 100x11	60	6	80	CLA–06	11.8
SCD–07	4"		100	T 100x11	60	6	80	CLA–07	12.2
SCD–08	6"		100	T 100x11	100	6	80	CLA–08	20
SCD–09	8"		100	T 100x11	100	8	80	CLA–09	23

SCARPETTA TIPO SCD

LUNGHEZZA = 500

(PER LINEE COIBENTATE ø 10"÷24")



ESEMPIO DI DESIGNAZIONE:

SCD–12/200

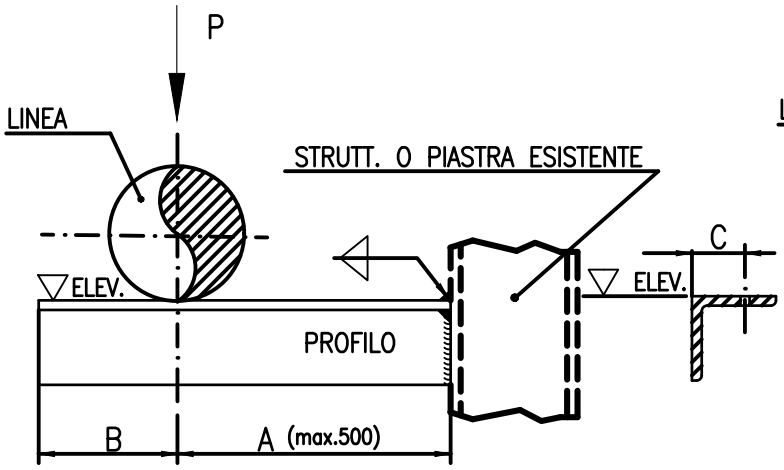
TIPO — ALTEZZA H

TIPO	DN	H									CARICO MAX kg	COLLARE TIPO
		100			150			200				
		A	⏍ B	PESO kg	A	⏍ B	PESO kg	A	⏍ B	PESO kg		
SCD–10	10"	98	500x10	50	148	500x10	53	198	500x10	56	5000	CLA–10
SCD–11	12"	95	500x10	54	145	500x10	195	187	500x10	59		CLA–11
SCD–12	14"	94	500x10	90	144	500x10	93	194	500x10	96		CLA–12
SCD–13	16"	90	500x10	96	140	500x10	98	190	500x10	101		CLA–13
SCD–14	18"	94	500x10	109	144	500x10	113	194	500x10	116		CLA–14
SCD–15	20"	92	500x10	116	142	500x10	120	192	500x10	122	8000	CLA–15
SCD–16	24"	90	500x10	152	140	500x10	156	190	500x10	159		CLA–16

NOTA 1: SPESSORE COIBENTAZIONE MAX = 80 mm CON H = 100
SPESSORE COIBENTAZIONE MAX = 130 mm CON H = 150
SPESSORE COIBENTAZIONE MAX = 175 mm CON H = 200

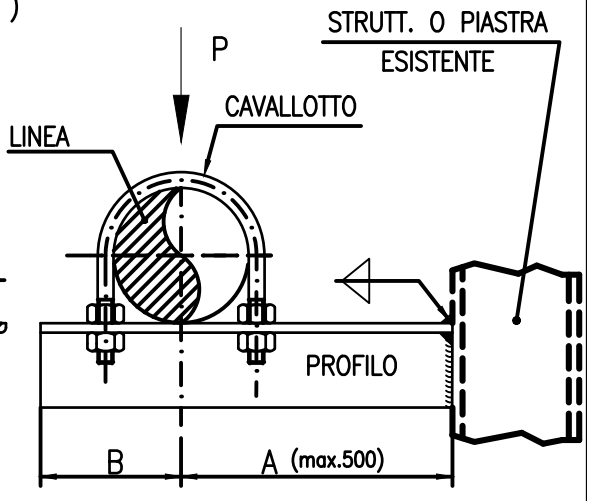
MENSOLA TIPO MEA

(PER LINEE ⩽ ø 3")



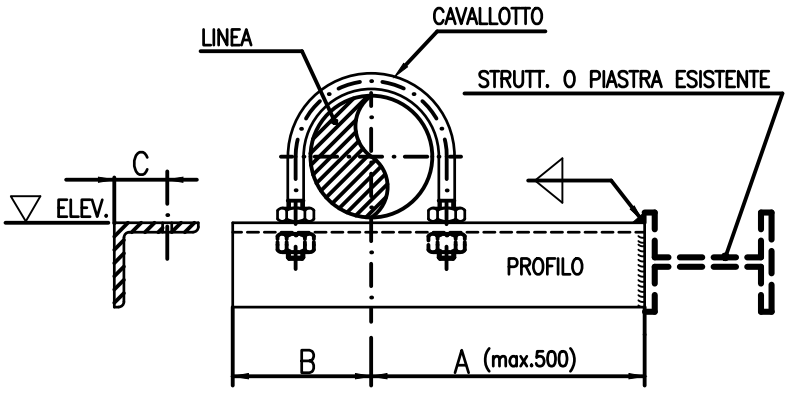
VERSIONE "X"

(APPOGGIO PER LINEA NUDA O CON SCARPETTA)



VERSIONE "Y"

(GUIDA PER LINEA ORIZZONTALE NUDA)



VERSIONE "Z"

(GUIDA PER LINEA VERTICALE NUDA)

ESEMPIO DI DESIGNAZIONE:

MEA–06/400/Z

TIPO

DIMENSIONE A

VERSIONE

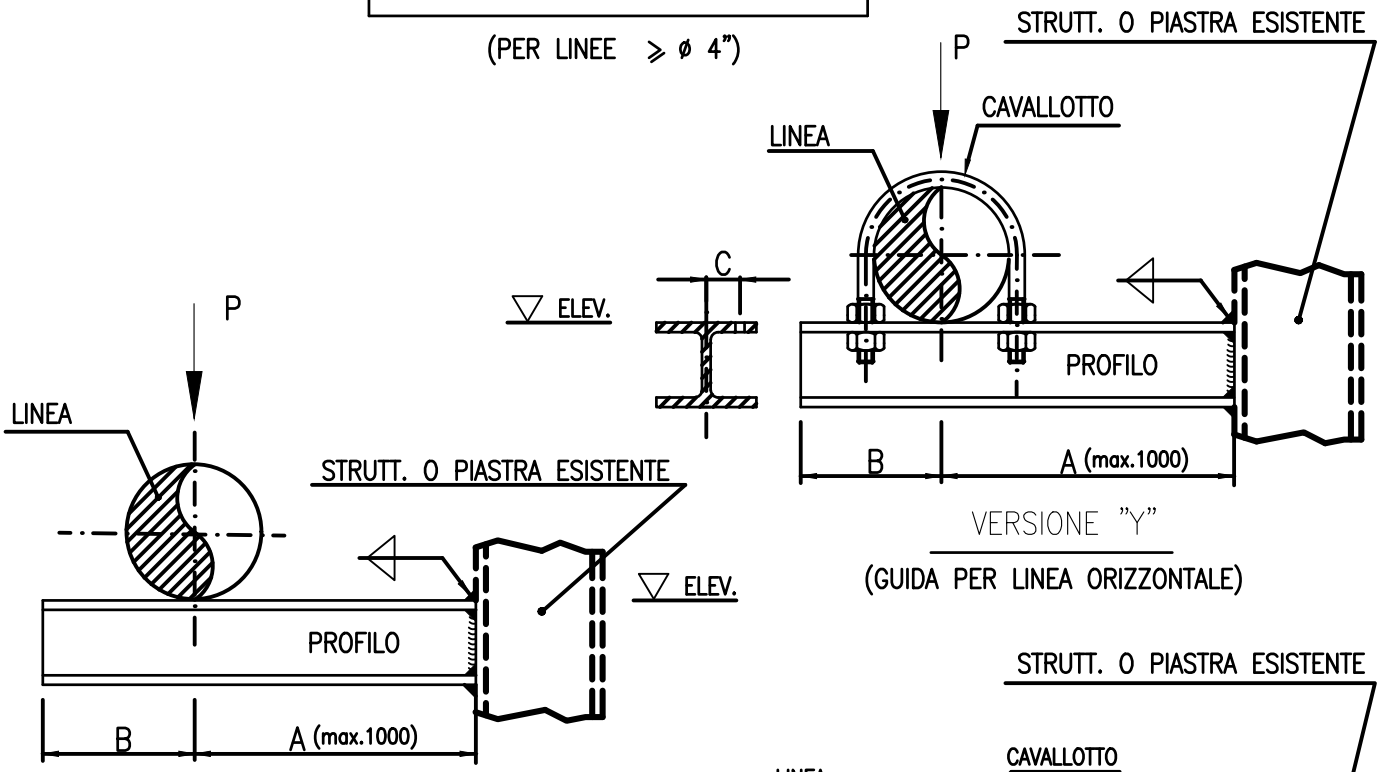
TIPO	DN	A	B	C	∠	CAVALLOTTO TIPO	PROFILO	M max. Kgm	PESO kg
MEA–01	1/2"	VARIABILE	50	40	5	CVA–01	L70x7	90	VARIABILE
MEA–02	3/4"		55	40	5	CVA–02	L70x7	90	
MEA–03	1"		60	40	5	CVA–03	L70x7	90	
MEA–04	1½"		70	40	5	CVA–04	L70x7	90	
MEA–05	2"		80	40	5	CVA–05	L70x7	90	
MEA–06	3"		100	40	5	CVA–06	L70x7	90	

NOTE:

1) IL MOMENTO FLETTENTE M=PxA DEVE ESSERE < DI M max. TABELLATO
2) I FORI PER CAVALLOTTI SONO DA ESEGUIRE IN OPERA

MENSOLA TIPO MEB

(PER LINEE ⩾ ø 4")

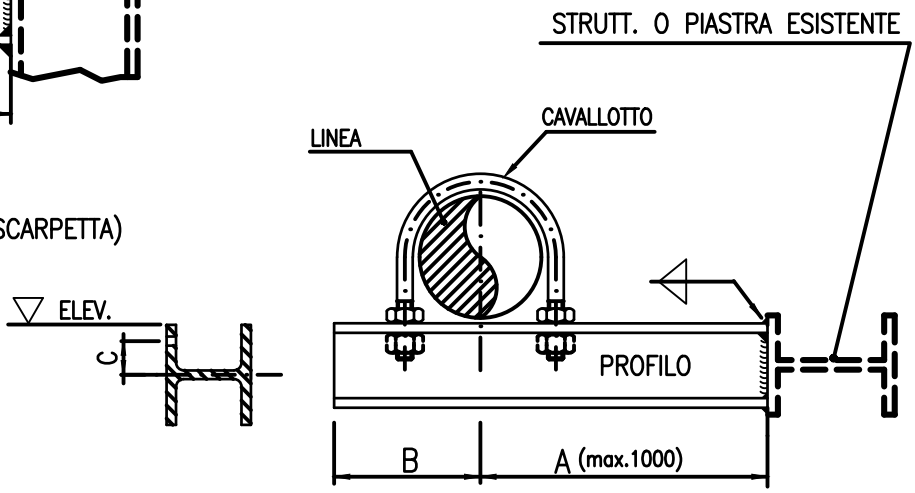


VERSIONE "Y"

(GUIDA PER LINEA ORIZZONTALE)

VERSIONE "X"

(APPOGGIO PER LINEA NUDA O CON SCARPETTA)



VERSIONE "Z"

(GUIDA PER LINEA VERTICALE)

ESEMPIO DI DESIGNAZIONE:

MEB–01/750/Y

TIPO

DIMENSIONE A

VERSIONE

TIPO	DN	A	B	C	∠	CAVALLOTTO TIPO	PROFILO	M max. Kgm	PESO kg
MEB–01	4"	VARIABILE	130	28	4	CVA–07	HEA 120	700	VARIABILE
MEB–02	6"		160	28	4	CVA–08	HEA 120	700	
MEB–03	8"		180	28	4	CVA–09	HEA 120	700	
MEB–04	10"		210	38	5	CVA–10	HEA 140	1600	
MEB–05	12"		230	38	5	CVA–11	HEA 140	1600	
MEB–06	14"		250	38	5	CVA–12	HEA 140	1600	
MEB–07	16"		280	38	5	CVA–13	HEA 140	1600	
MEB–08	18"		300	43	6	CVA–14	HEA 160	2000	
MEB–09	20"		330	43	6	CVA–15	HEA 160	2000	
MEB–10	24"		380	43	6	CVA–16	HEA 160	2000	

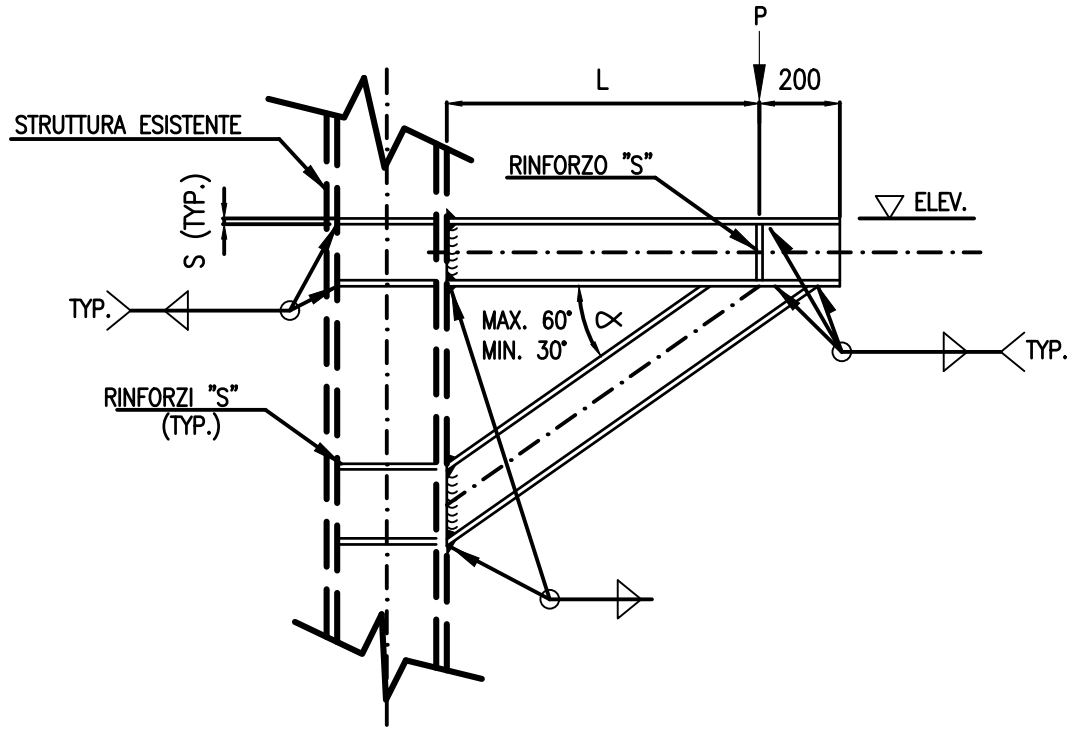
NOTE:

1) IL MOMENTO FLETTENTE M=PxA DEVE ESSERE < DI M max. TABELLATO

2) I FORI PER CAVALLOTTI SONO DA ESEGUIRE IN OPERA

MENSOLA CON DIAGONALE TIPO MEF

("L" MAX. = 2000)



ESEMPIO DI DESIGNAZIONE:

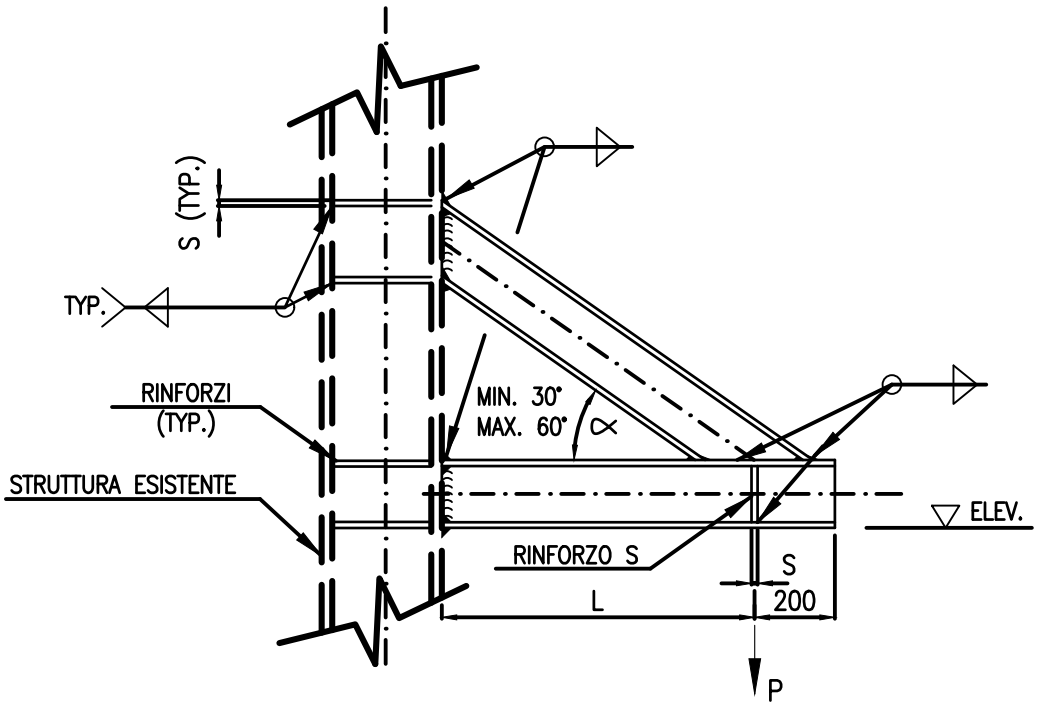
TIPO → MEF–A/1000/45°

ANGOLO ∝

DIMENSIONE L

TIPO	PROFILI	PESO KG./m	S	CARICO MAX P (KG)		
				L=1000	L=1500	L=2000
MEF–A	IPE 80	6.0	6	1500	1000	750
MEF–B	IPE 100	8.1	6	2000	1500	1000
MEF–C	HEA 100	16.7	8	5000	4000	2000
MEF–D	HEA 140	24.7	8	9000	7000	5000

MENSOLA ROVESCIATA CON DIAGONALE TIPO MEG ("L" MAX. = 2000)



ESEMPIO DI DESIGNAZIONE:

TIPO → MEG–C/1000/45°

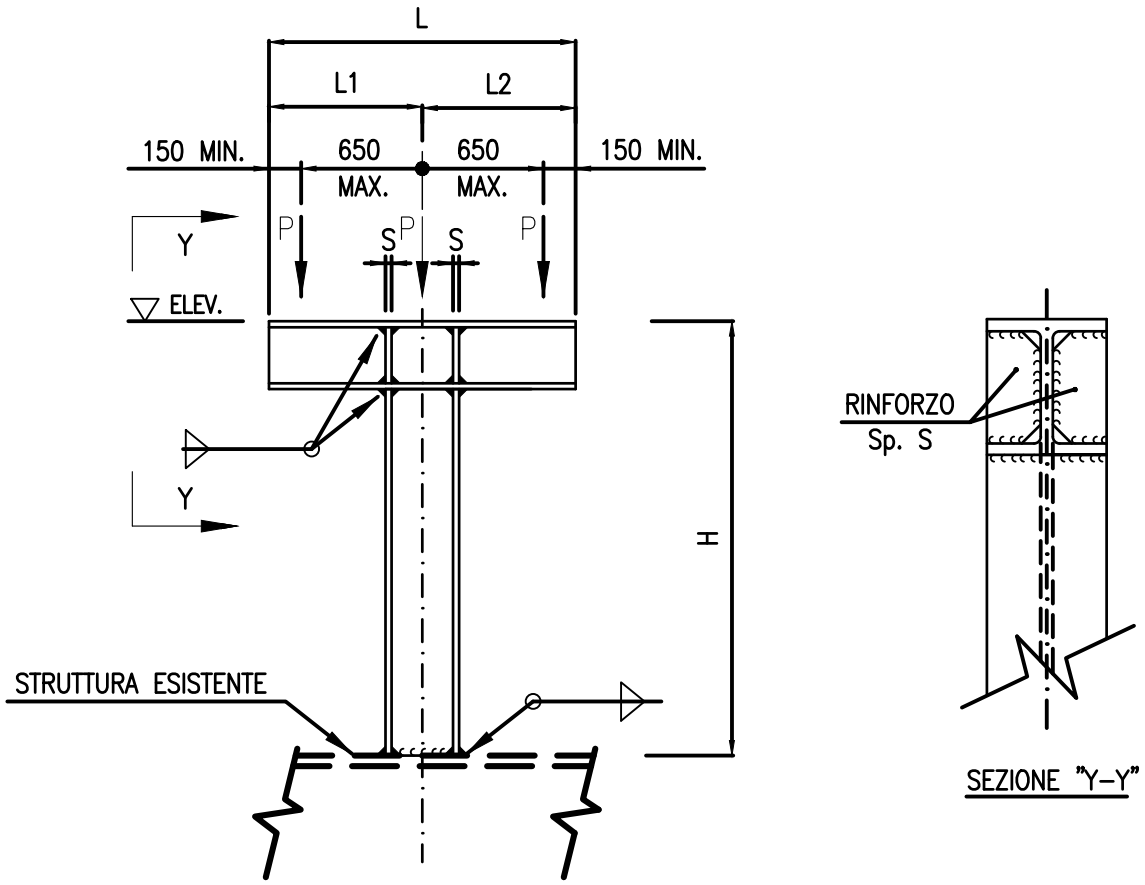
ANGOLO ∝

DIMENSIONE L

TIPO	PROFILI	PESO KG./m	S	CARICO MAX P (KG)		
				L=1000	L=1500	L=2000
MEG–A	IPE 80	6.0	6	1500	1000	750
MEG–B	IPE 100	8.1	6	2000	1500	1000
MEG–C	HEA 100	16.7	8	5000	4000	2000
MEG–D	HEA 140	24.7	8	9000	7000	5000

PALINA A "T" TIPO S01

("H" MAX. = 2500)
("L" MAX. = 1600)



ESEMPIO DI DESIGNAZIONE:

TIPO → S01–B/1000/500/500

DIMENSIONE H

DIMENSIONE L2

DIMENSIONE L1

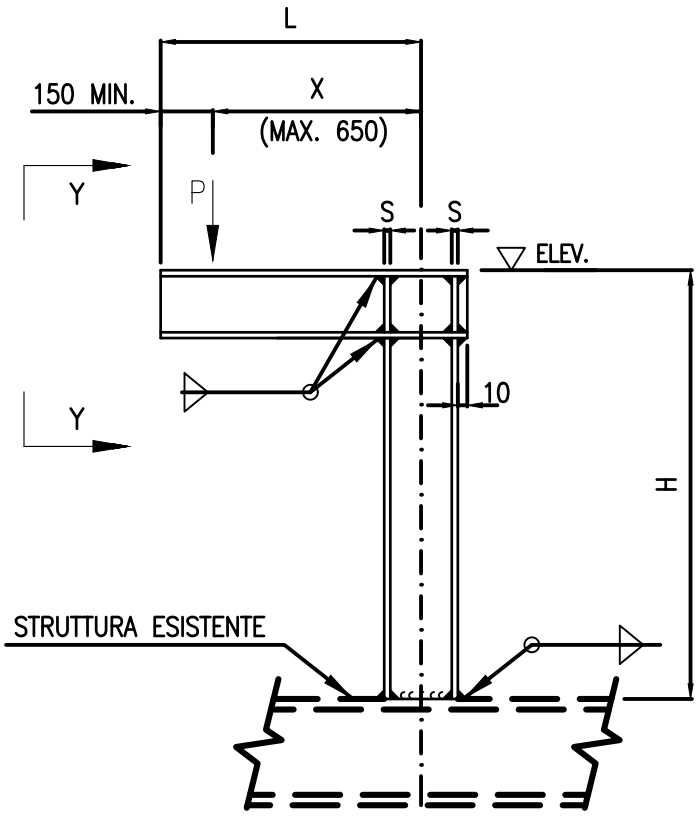
TIPO	PROFILI	PESO KG./m	S	CARICO MAX P (KG)			MOMENTO MAX
				H=1000	H=1500	H=2500	
S01–A	IPE 100	8.1	6	500			250
S01–B	HEA 100	16.7	8	3000	1500		800
S01–C	HEA 140	24.7	8	4000	2500	1400	1200
S01–D	HEA 200	42.3	10	6000	4000	2000	3000

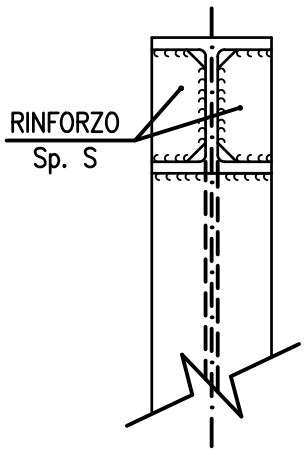
NOTE :

1) P E' IL CARICO TOTALE AGENTE SULLA PALINA DOVUTO ALLE TUBAZIONI DA SOSTENERE LA SPINTA ORIZZONTALE AMMISSIBILE VALE MAX. 30% P

PALINA A "L" TIPO S02

("H" MAX. = 2500)
("L" MAX. = 800)





SEZIONE "Y–Y"

ESEMPIO DI DESIGNAZIONE:

TIPO → S02–C/1500/600

DIMENSIONE H

DIMENSIONE L

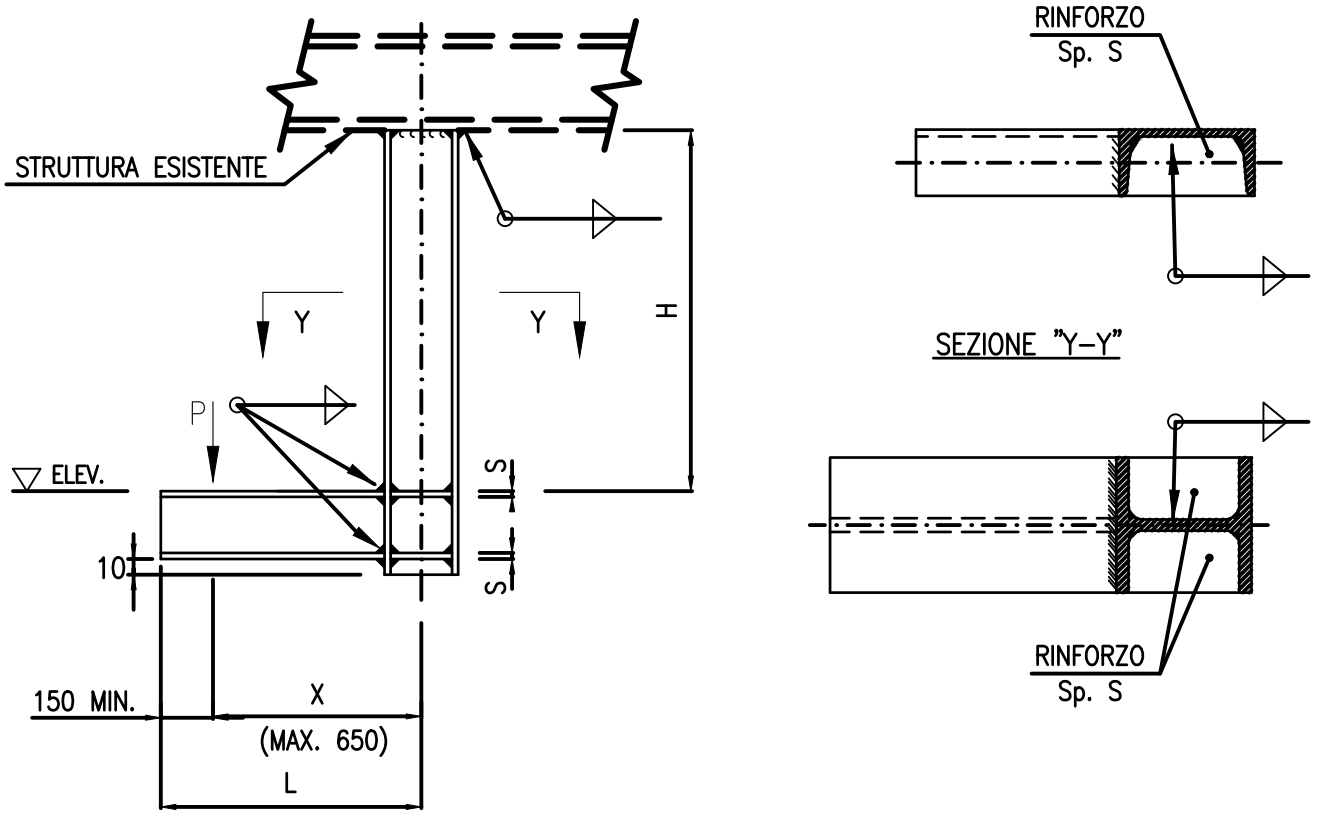
TIPO	PROFILI	PESO KG./m	S	CARICO MAX P (KG)					
				H=300	H=700	H=1200	H=1500	H=2000	H=2500
S02–A	IPE 100	8.1	6	500	240	130	–	–	–
S02–B	HEA 100	16.7	8	700	600	500	420	310	250
S02–C	HEA 140	24.7	8	1000	1000	1000	800	450	350
S02–D	HEA 200	42.3	10	–	2000	2000	2000	1100	900

NOTE :

1) P E' IL CARICO TOTALE AGENTE SULLA TRAVE DOVUTO ALLE TUBAZIONI DA SOSTENERE
LA SPINTA ORIZZONTALE AMMISSIBILE VALE MAX. 30% P

PALINA A "L" ROVESCIATA TIPO S03

("H" MAX. = 2500)
("L" MAX. = 800)



ESEMPIO DI DESIGNAZIONE:

TIPO → S03–B/2000/700

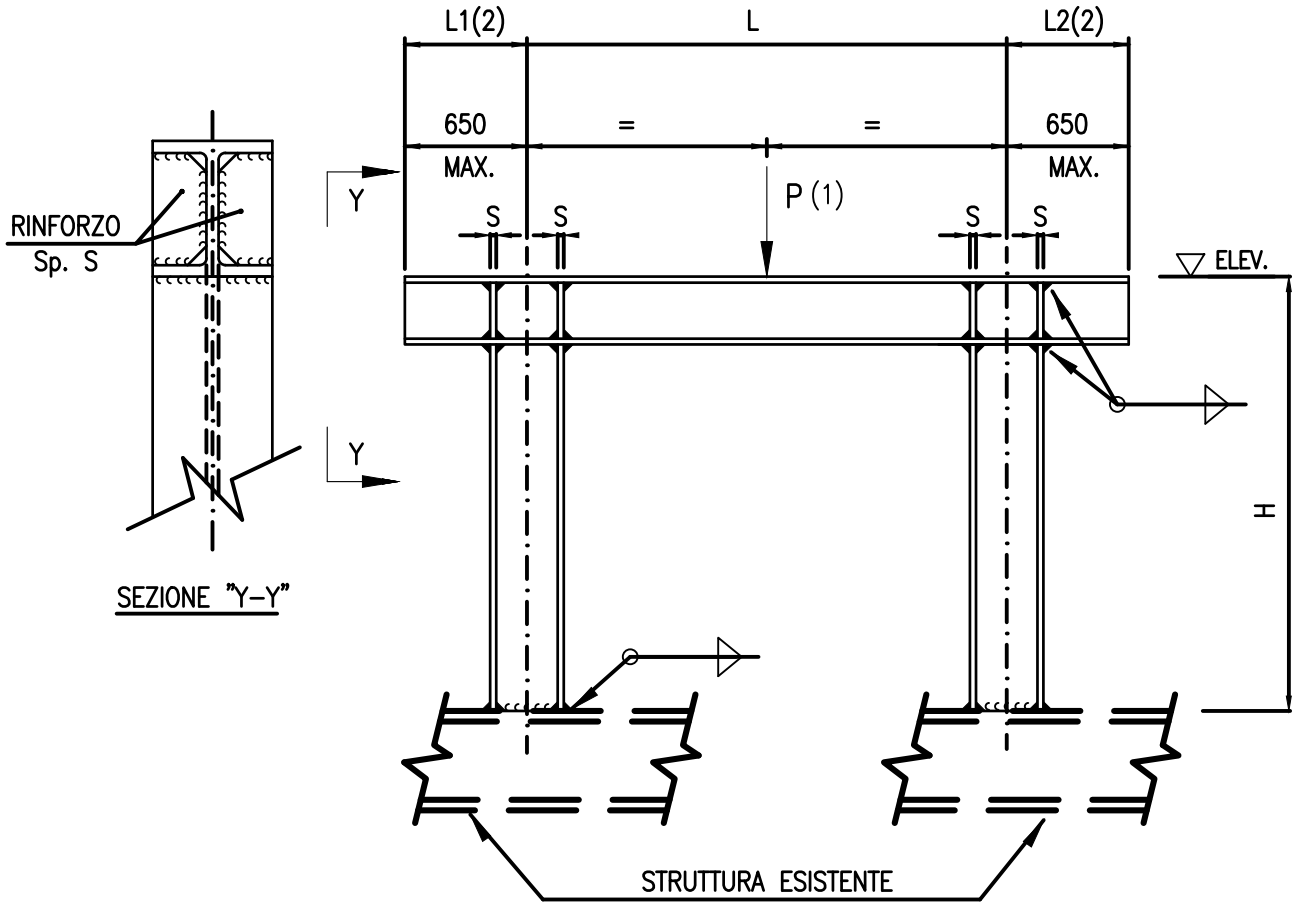
DIMENSIONE H

DIMENSIONE L

TIPO	PROFILI	PESO KG./m	S	CARICO MAX P (KG)					
				H=300	H=700	H=1200	H=1500	H=2000	H=2500
S03–A	IPE 100	8.1	6	500	240	130	–	–	–
S03–B	HEA 100	16.7	8	700	600	500	420	310	250
S03–C	HEA 140	24.7	8	1000	1000	1000	800	450	350
S03–D	HEA 200	42.3	10	–	2000	2000	2000	1100	900
S03–E	UNP 100	10.6	8	400	200	130	–	–	–
S03–F	UNP 120	13.3	8	500	350	240	200	–	–
S03–G	UNP 140	16.0	8	600	450	300	250	–	–

PORTALE SALDATO ALLA BASE TIPO S04

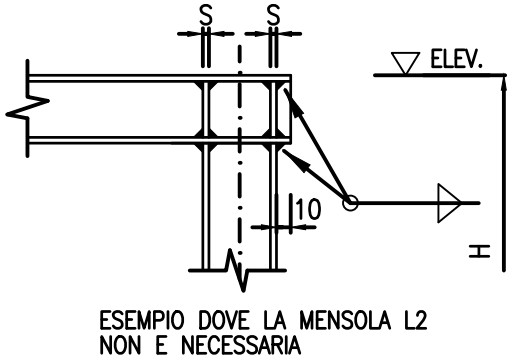
("H" MAX. = 1500)
("L" MAX. = 5000)



ESEMPIO DI DESIGNAZIONE:

TIPO → S04–B/1200/3000/400/500

- DIMENSIONE H
- DIMENSIONE L
- DIMENSIONE L1
- DIMENSIONE L2



ESEMPIO DOVE LA MENSOLA L2 NON E NECESSARIA

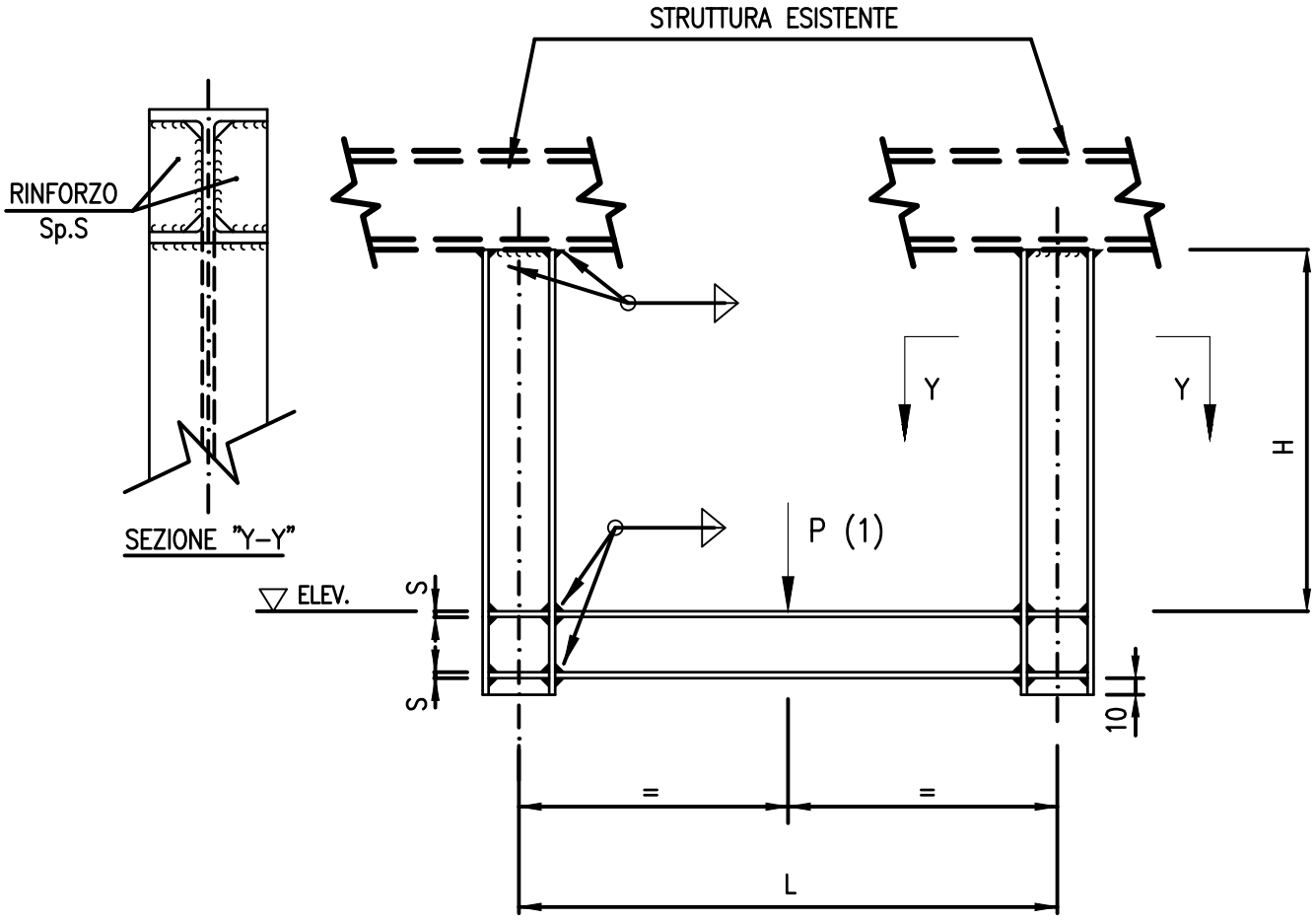
TIPO	PROFILI	PESO KG./m	S	CARICO MAX P (KG)						
				L=1000	L=1500	L=2000	L=2500	L=3000	L=4000	L=5000
S04–A	HEA 140	24.7	8	600	600	600	500	500	500	500
S04–B	HEA 200	42.3	10	1500	1500	1500	1200	1200	1200	1200
S04–C	HEA 220	50.5	10	2500	2500	2500	2000	2000	2000	2000

NOTE :

1) P E' IL CARICO TOTALE AGENTE SULLA TRAVE DOVUTO ALLE TUBAZIONI DA SOSTENERE LA SPINTA ORIZZONTALE AMMISSIBILE VALE MAX. 30% P
2) DOVE L1 O L2 NON SONO NECESSARIE, INDICARE "0" NEI RISPETTIVI CAMPI DI DESTINAZIONE. SE ENTRAMBE NON SONO NECESSARIE, IL PORTALE PRENDERA' LA FORMA CLASSICA A "U" ROVESCIATA PRIVA DI MENSOLE ESTERNE

PORTALE ROVESCIATO E SALDATO TIPO S05

("H" MAX. = 1500)
("L" MAX. = 2000)



ESEMPIO DI DESIGNAZIONE:

TIPO → S05–B/1200/1500

DIMENSIONE H

DIMENSIONE L

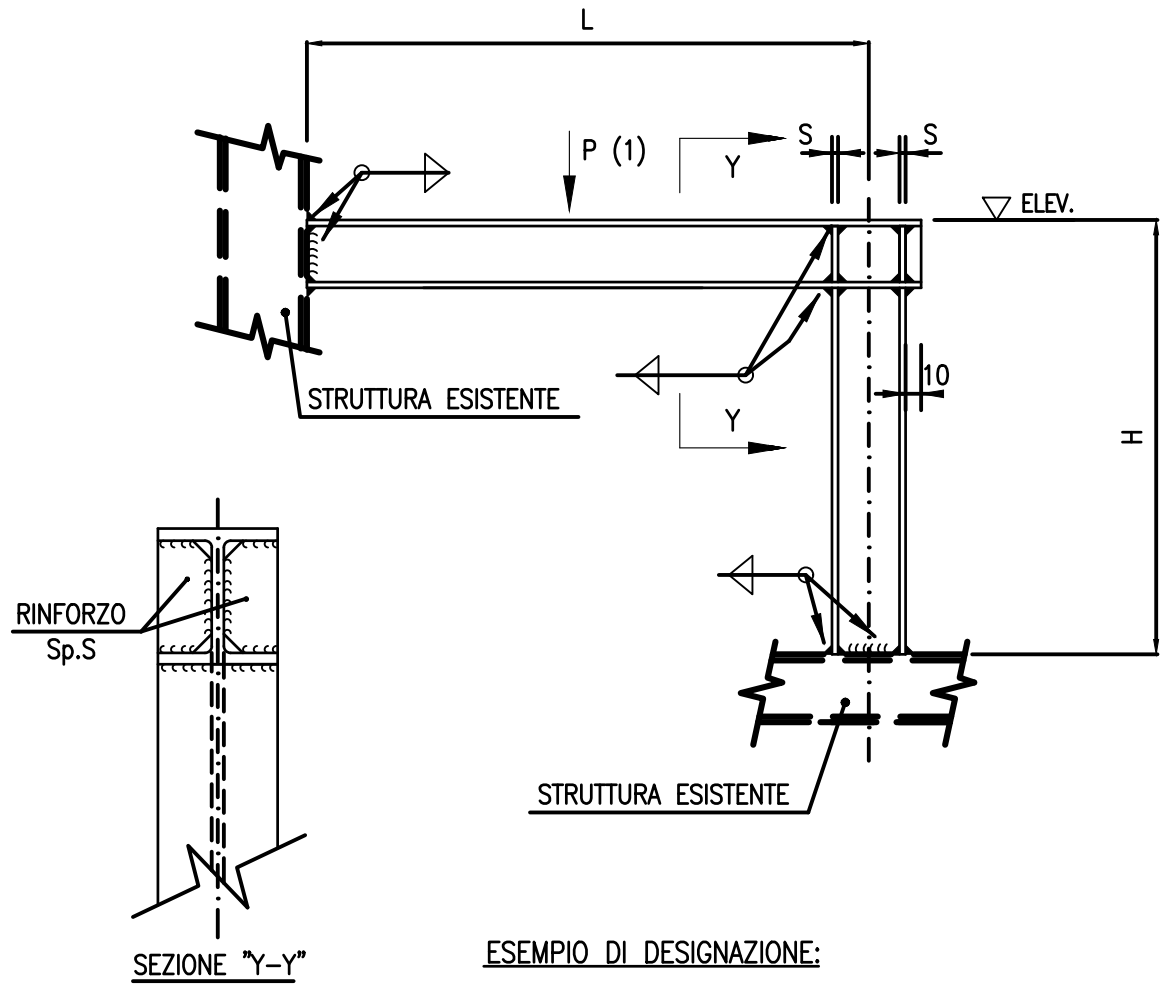
TIPO	PROFILI	PESO KG./m	S	CARICO MAX P (KG)		
				H=500	H=1000	H=1500
S05–A	IPE 100	8.1	6	400	320	260
S05–B	HEA 100	16.7	8	1050	950	850
S05–C	HEA 140	24.7	8	2150	1950	1750
S05–D	HEA 200	42.3	10	5300	4750	4300

NOTE :

1) P E' IL CARICO TOTALE AGENTE SULLA TRAVE DOVUTO ALLE TUBAZIONI DA SOSTENERE
LA SPINTA ORIZZONTALE AMMISSIBILE VALE MAX. 30% P

PORTALE A "L" TIPO S06

("H" MAX. = 1500)
("L" MAX. = 5000)



ESEMPIO DI DESIGNAZIONE:

TIPO → S06–B/1200/2500

DIMENSIONE H

DIMENSIONE L

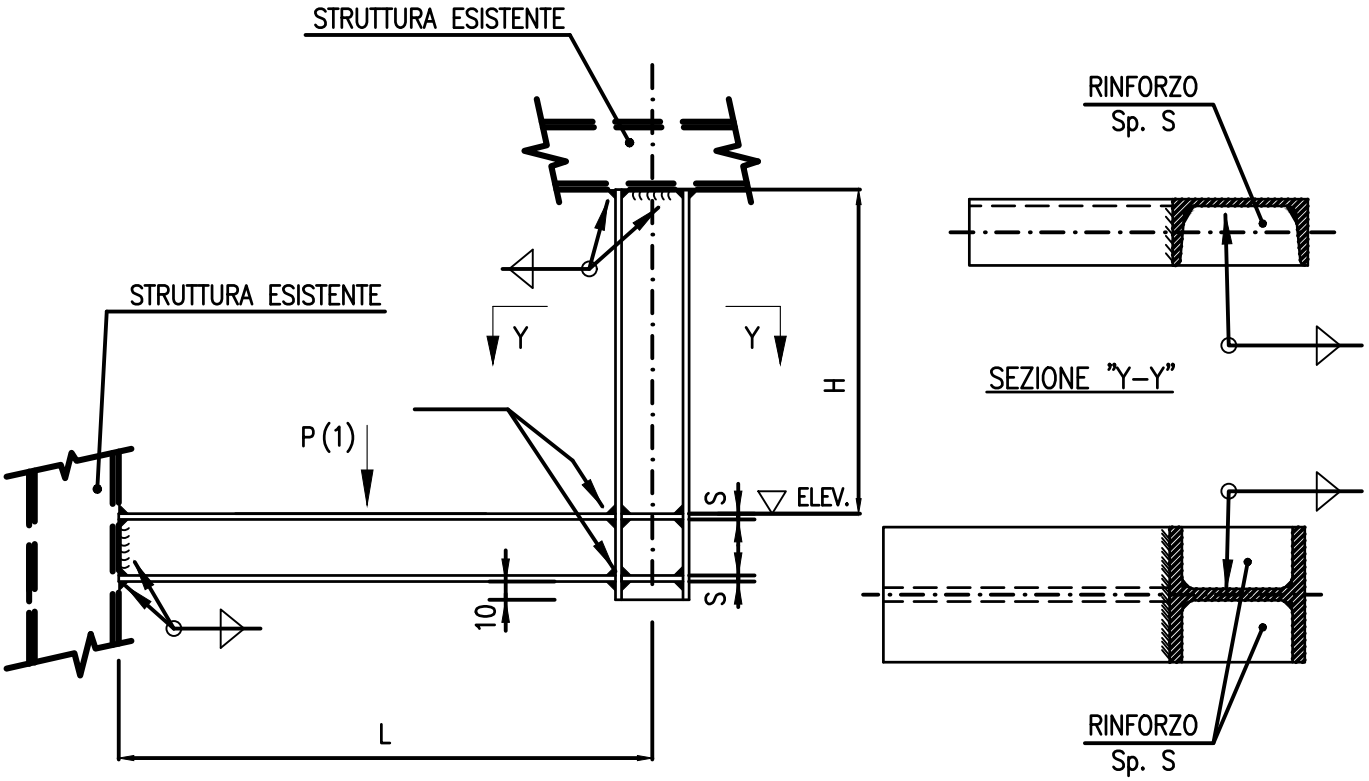
TIPO	PROFILI	PESO KG./m	S	CARICO MAX P (KG)				
				L=1000	L=2000	L=3000	L=4000	L=5000
S06–A	IPE 100	8.1	6	1300	650	450	300	250
S06–B	HEA 100	16.7	8	2000	1000	800	500	450
S06–C	HEA 140	24.7	8	4000	2000	1600	1000	900

NOTE :

1) P E' IL CARICO TOTALE AGENTE SULLA TRAVE DOVUTO ALLE TUBAZIONI DA SOSTENERE LA SPINTA ORIZZONTALE AMMISSIBILE VALE MAX. 30% P

PORTALE A "L" ROVESCIATO TIPO S07

("H" MAX. = 1500)
("L" MAX. = 5000)



ESEMPIO DI DESIGNAZIONE:

TIPO → S07–B/1200/2500

DIMENSIONE H

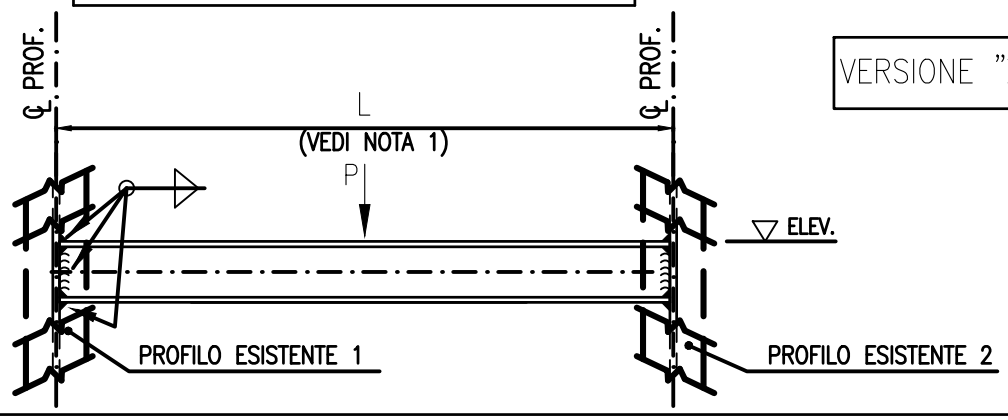
DIMENSIONE L

TIPO	PROFILI	PESO KG./m	S	CARICO MAX P (KG)				
				L=1000	L=2000	L=3000	L=4000	L=5000
S07–A	IPE 100	8.1	6	1300	650	450	300	250
S07–B	HEA 100	16.7	8	2000	1000	800	500	450
S07–C	HEA 140	24.7	8	4000	2000	1600	1000	900

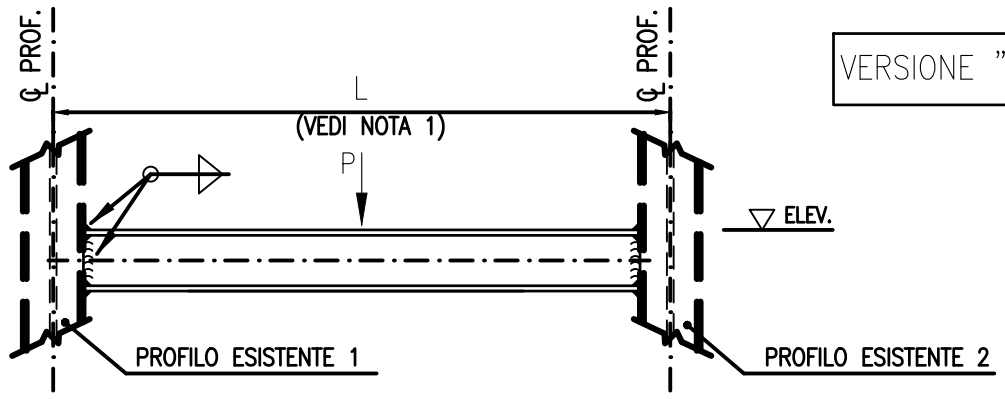
NOTE :

1) P E' IL CARICO TOTALE AGENTE SULLA TRAVE DOVUTO ALLE TUBAZIONI DA SOSTENERE LA SPINTA ORIZZONTALE AMMISSIBILE VALE MAX. 30% P

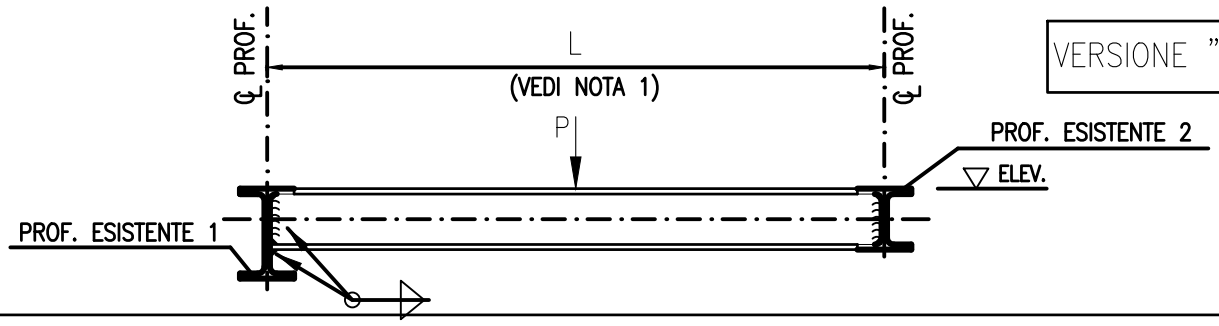
TRAVI AUSILIARIE TIPO S08



VERSIONE "X"



VERSIONE "Y"



VERSIONE "Z"

ESEMPIO DI DESIGNAZIONE:

TIPO → S08–C/Y/4000/HEA200/HEB300

- VERSIONE
- LUNGHEZZA L
- PROFILO ESISTENTE 1
- PROFILO ESISTENTE 2

TIPO	TRAVE (3)	PESO KG./m	CARICO MAX P (KG)						
			L=1000	L=2000	L=3000	L=4000	L=5000	L=6000	L=7000
S08–A	IPE 100	8.1	750	375	250	200	150	–	–
S08–B	HEA 100	16.7	240	1200	800	600	500	400	–
S08–C	HEA 140	24.7	4800	2400	1600	1200	1000	800	600
S08–D	HEA 200	42.3	10000	5000	3500	2500	2000	1750	1500

NOTE : 1) PREVEDERE 50mm DI LUNGHEZZA IN PIU' PER AGGIUSTAGGIO IN OPERA

2) P E' IL CARICO TOTALE AGENTE SULLA TRAVE DOVUTO ALLE TUBAZIONI DA SOSTENERE LA SPINTA ORIZZONTALE AMMISSIBILE VALE MAX. 30% P

3) ESTREMITA' TRAVE DA ADATTARE IN OPERA AI PROFILI ESISTENTI.

FALSO TUBO PER LINEE ORIZZONTALI TIPO FTA1–FTA2

(PER LINEE IN ACC. CARB./ACC. INOX ⩾ ø 2")

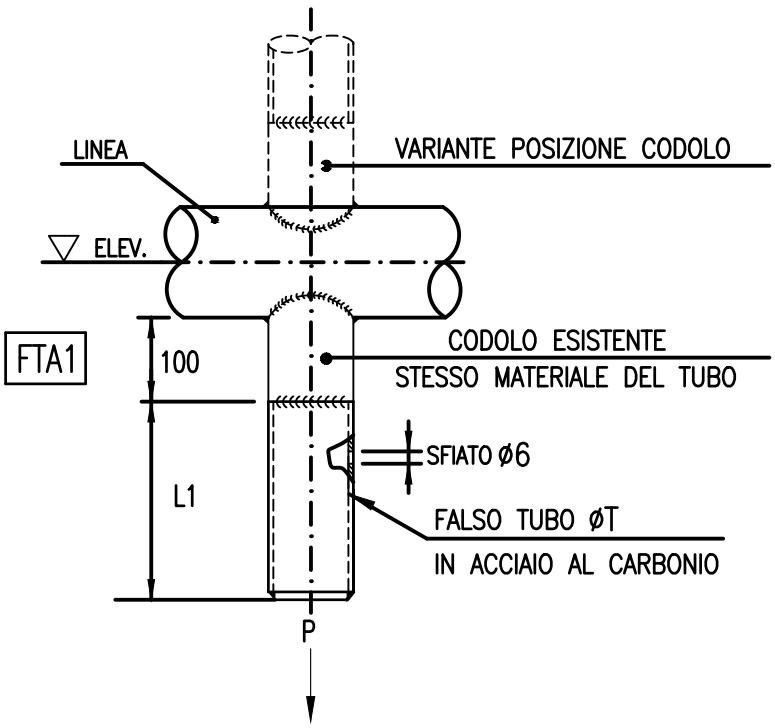
ESEMPIO DI DESIGNAZIONE:

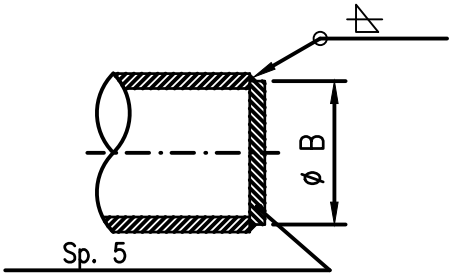
FTA2–05/150/500

TIPO

DIMENSIONE L1

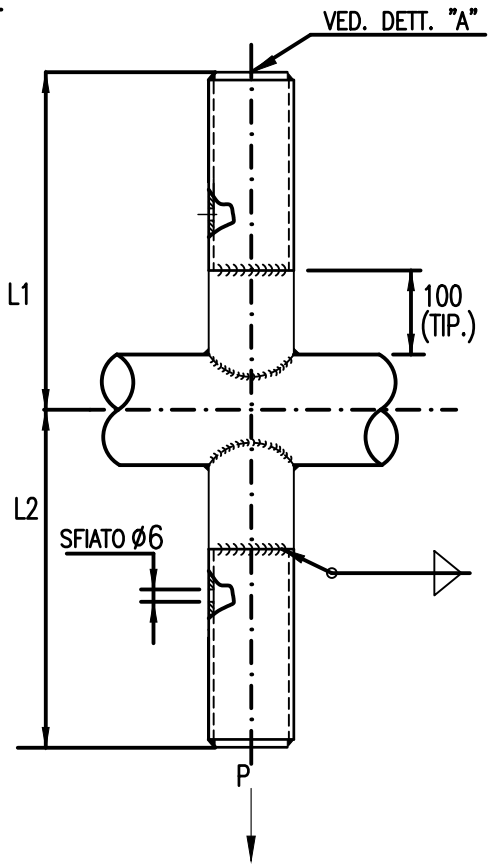
DIMENSIONE L2





DETTAGLIO "A"

FTA2



TIPO	ø LINEA	FALSO TUBO ø T	FALSO TUBO SCH.	DISCO ø B	L MAX	L1	L2	P MAX Kg	
FT*–01	2"	2"	XS	54	1000	VARIABILE	VARIABILE	170	
FT*–02	3"	2"	XS	54	1000			280	
FT*–03	4"	3"	STD	83	1000			900	
FT*–04	6"	3"	STD	83	1000			900	
FT*–05	8"	6"	STD	160	1200			1600	
FT*–06	10"	6"	STD	160	1600			2500	
FT*–07	12"–14"	10"	XS	265	1600			4000	
FT*–08	16"–18"	12"	30	315	1800			7000	
FT*–09	20"÷24"	16"	XS	396	2000			8000	

NOTE: 1) ESTREMITA' SECONDO ASME B 16.25. PREVEDERE SALDATURA BIMETALLICA SE IL CODOLO ESISTENTE E' DI MATERIALE DIVERSO DALL' ACCIAIO AL CARBONIO.

*) INSERIRE LETTERA A1,A2 IN FUNZIONE DEL CODOLO ESISTENTE

FALSO TUBO PER LINEE VERTICALI TIPO FTB1–FTB2

(PER LINEE IN ACC. CARB./ACC. INOX ⩾ ø 2")

ESEMPIO DI DESIGNAZIONE:

FTB2–05/150/500/700/150

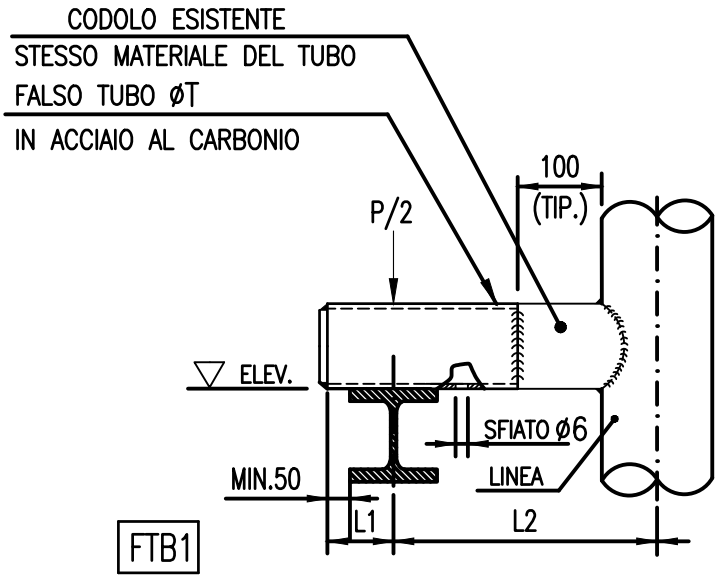
TIPO

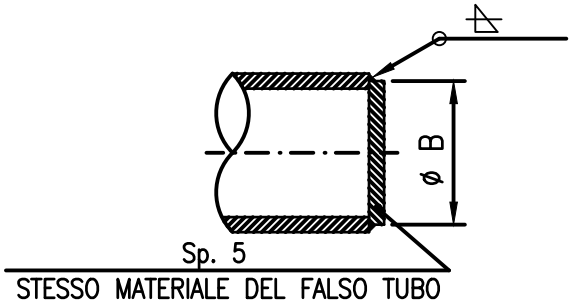
DIMENSIONE L1

DIMENSIONE L2

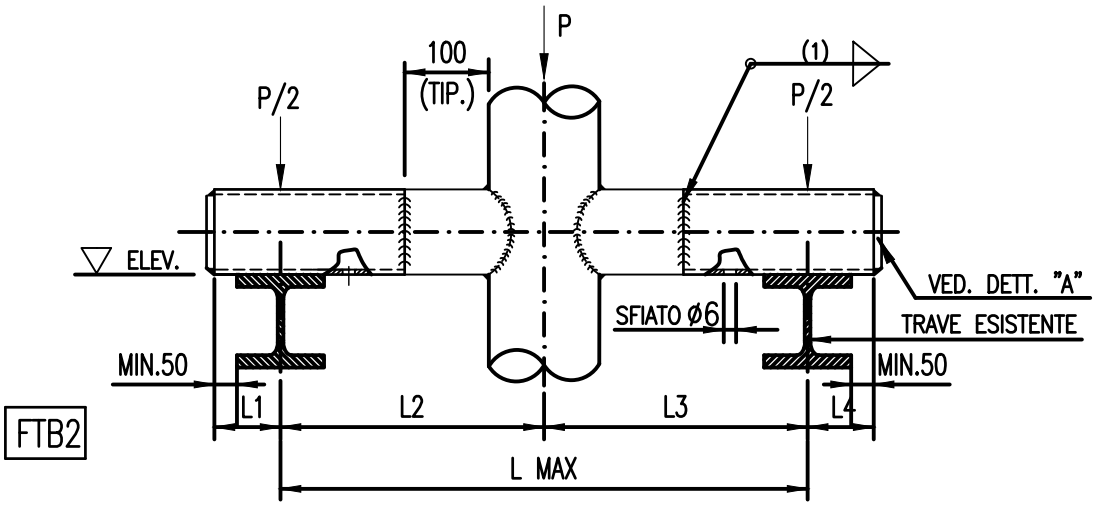
DIMENSIONE L3

DIMENSIONE L4





DETTAGLIO "A"



TIPO	ø LINEA	FALSO TUBO ø T	FALSO TUBO SCH.	DISCO ø B	L MAX	L1	L2	L3	L4	P MAX Kg	
FT*–01	2"	2"	XS	54	1000	VARIABILE	VARIABILE	VARIABILE	VARIABILE	170	
FT*–02	3"	2"	XS	54	1000					280	
FT*–03	4"	3"	STD	83	1000					900	
FT*–04	6"	3"	STD	83	1000					900	
FT*–05	8"	6"	STD	160	1200					1600	
FT*–06	10"	6"	STD	160	1600					2500	
FT*–07	12"–14"	10"	XS	265	1600					4000	
FT*–08	16"–18"	12"	30	315	1800					7000	
FT*–09	20"÷24"	16"	XS	396	2000					8000	

NOTE: 1) ESTREMITA' SECONDO ASME B 16.25. PREVEDERE SALDATURA BIMETALLICA SE IL CODOLO ESISTENTE E' DI MATERIALE DIVERSO DALL' ACCIAIO AL CARBONIO.

*) INSERIRE LETTERA B1,B2 IN FUNZIONE DEL CODOLO ESISTENTE

FALSO TUBO TIPO FTC-FTD-FTE

(PER LINEE IN ACC. CARB./ACC. INOX ⩾ ø 2")

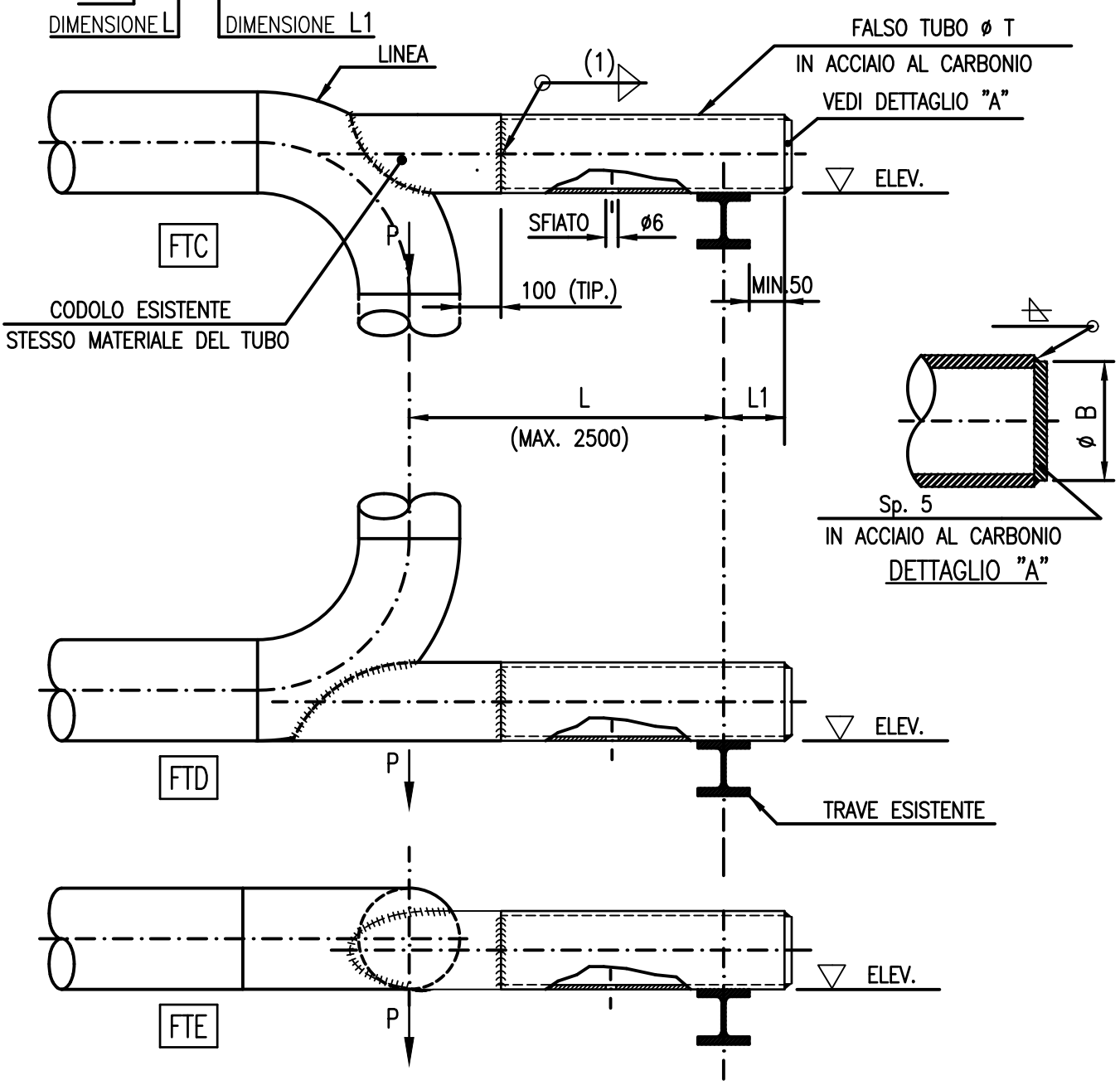
ESEMPIO DI DESIGNAZIONE:

FTC-05/600/150

TIPO

DIMENSIONE L

DIMENSIONE L1



TIPO	DN	FALSO TUBO ø T	FALSO TUBO SCH.	DISCO ø B	L	L1	MOMENTO MAX P x L kgm
FT*-01	2"	2"	XS	54	VARIABILE	VARIABILE	50
FT*-02	3"	2"	XS	54			110
FT*-03	4"	3"	STD	83			280
FT*-04	6"	3"	STD	83			600
FT*-05	8"	6"	STD	160			1200
FT*-06	10"	6"	STD	160			1600
FT*-07	12"-14"	10"	XS	265			2500
FT*-08	16"-18"	12"	30	315			4000
FT*-09	20"÷24"	16"	XS	396			6500

*) INSERIRE LETTERA C,D,E IN FUNZIONE DEL CODOLO ESISTENTE

NOTE: 1) ESTREMITA' SECONDO ASME B 16.25. PREVEDERE SALDATURA BIMETALLICA SE IL CODOLO ESISTENTE E' DI MATERIALE DIVERSO DALL' ACCIAIO AL CARBONIO.

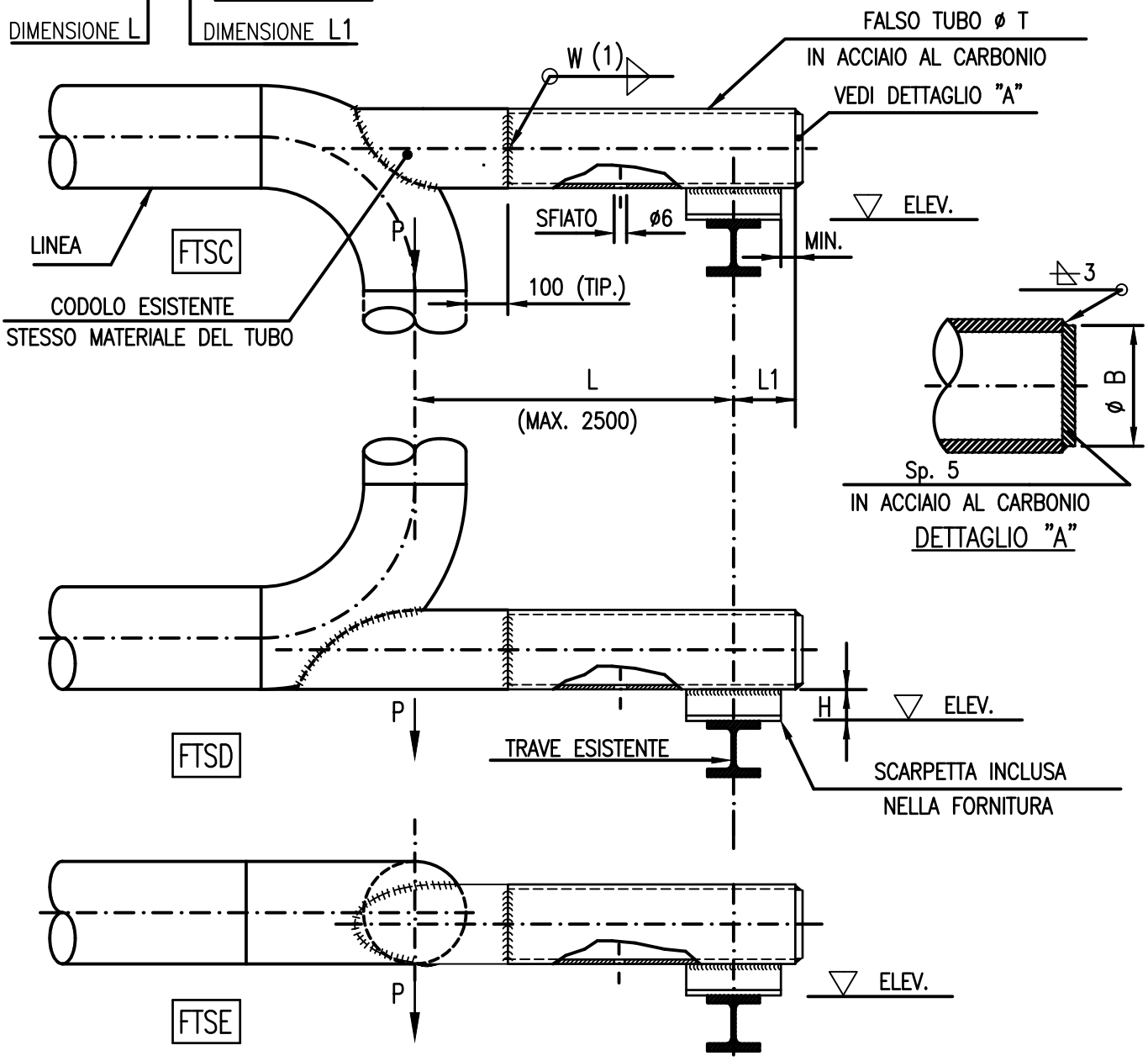
FALSO TUBO TIPO FTSC–FTSD–FTSE

(PER LINEE IN ACC. CARB./ACC. INOX > ø 2")

ESEMPIO DI DESIGNAZIONE:

FTSC–05/600/150/SCA–06/100

TIPO | DIMENSIONE L | DIMENSIONE L1 | TIPO SCARPETTA | ALTEZZA H



TIPO	DN	FALSO TUBO ø T	FALSO TUBO SCH.	DISCO ø B	L	L1	W	MOMENTO MAX P x L kgm	SCARPETTA TIPO
FTS*–01	2"	2"	XS	54	VARIABILE	VARIABILE	4	50	SCA–05
FTS*–02	3"	2"	XS	54			4	110	SCA–05
FTS*–03	4"	3"	STD	83			5	280	SCA–06
FTS*–04	6"	3"	STD	83			5	600	SCA–06
FTS*–05	8"	6"	STD	160			7	1200	SCA–08
FTS*–06	10"	6"	STD	160			7	1600	SCA–08
FTS*–07	12"–14"	10"	XS	265			8	2500	SCA–10
FTS*–08	16"–18"	12"	30	315			7	4000	SCA–11
FTS*–09	20"÷24"	16"	XS	396			8	6500	SCA–13

*) INSERIRE LETTERA C,D,E IN FUNZIONE DEL CODOLO ESISTENTE

NOTE: 1) ESTREMITA' SECONDO ASME B 16.25. PREVEDERE SALDATURA BIMETALLICA SE IL CODOLO ESISTENTE E' DI MATERIALE DIVERSO DALL' ACCIAIO AL CARBONIO.

APPOGGIO FISSO TIPO AFA

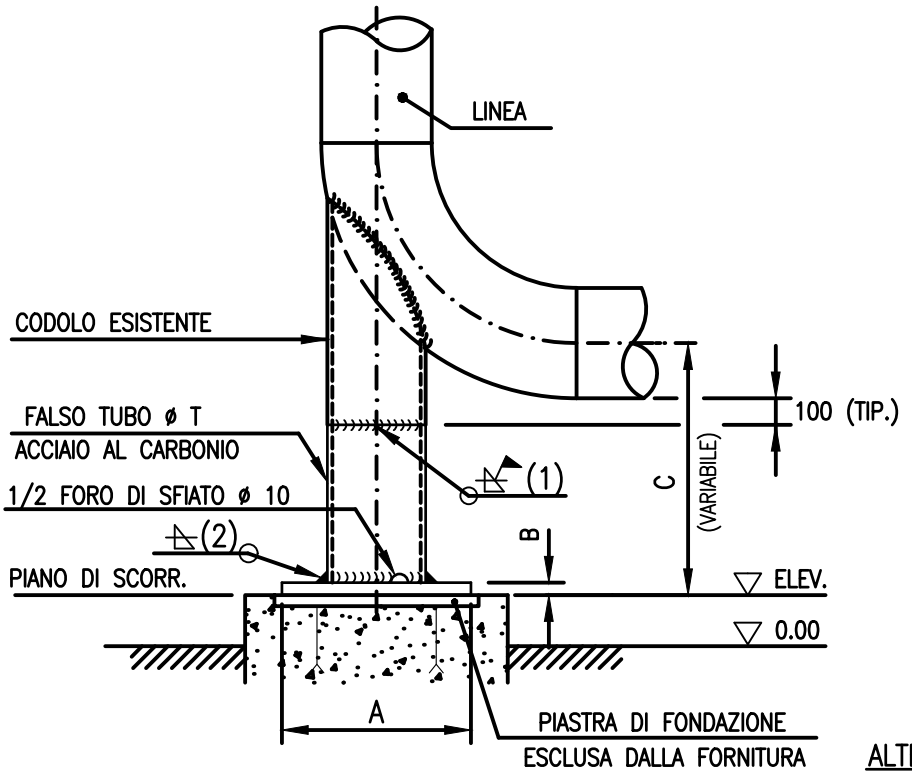
(SU PLINTO O STRUTTURA ESISTENTE)

ESEMPIO DI DESIGNAZIONE:

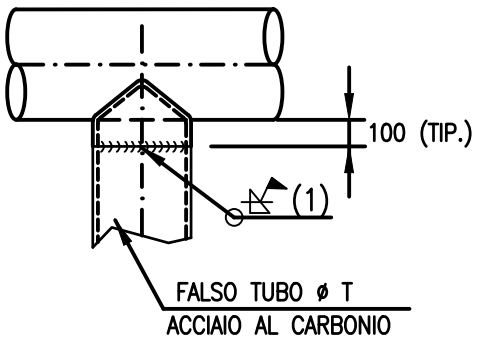
1) SU PLINTO O STRUTTURA ESISTENTE

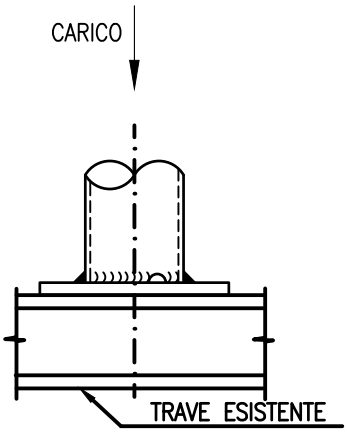
AFA–01/800

TIPO — DIMENSIONE C



VARIANTE PER
TUBAZIONE ORIZZONTALE





ALTERNATIVA SU STRUTTURA ESISTENTE

TIPO	DN	FALSO TUBO ø T	FALSO TUBO Sch.	⌀ A	SPESS. B	CARICO MAX kg.	C MAX			PESO kg.	PLINTO DI FONDAZIONE TIPO
AFA–01	2"	2"	XS	150	10	200	800			VARIABILE	PFA–01
AFA–02	3"	2"	XS	150	10	200	800				PFA–01
AFA–03	4"	3"	STD	150	10	500	800				PFA–01
AFA–04	6"	3"	STD	150	10	1000	900				PFA–01
AFA–05	8"	4"	STD	150	10	1000	900				PFA–01
AFA–06	10"	6"	STD	200	10	1800	900				PFA–02
AFA–07	12"	6"	STD	200	10	2800	900				PFA–02
AFA–08	14"	6"	STD	200	10	2800	1000				PFA–02
AFA–09	16"	8"	STD	250	15	4600	1000				PFA–03
AFA–10	18"	8"	STD	250	15	4600	1000				PFA–03
AFA–11	20"	10"	XS	300	15	4600	1000				PFA–04
AFA–12	24"	10"	XS	300	15	6000	1000				PFA–04

NOTE:

(1) ESTREMITA' SECONDO ASME B 16.25. PREVEDERE SALDATURA BIMETALLICA SE IL CODOLO ESISTENTE E' DI MATERIALE DIVERSO DALL' ACCIAIO AL CARBONIO.

(2) W= 0,7 x Thk. TUBO

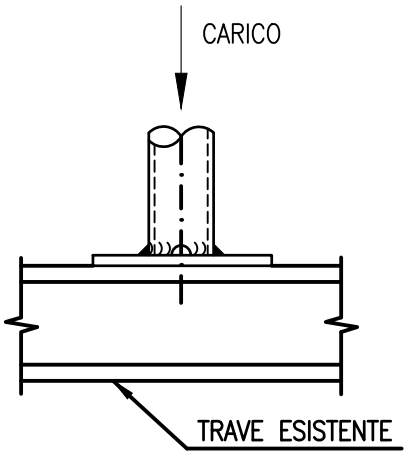
APPOGGIO FISSO AFC

(SU PLINTO O STRUTTURA ESISTENTE)

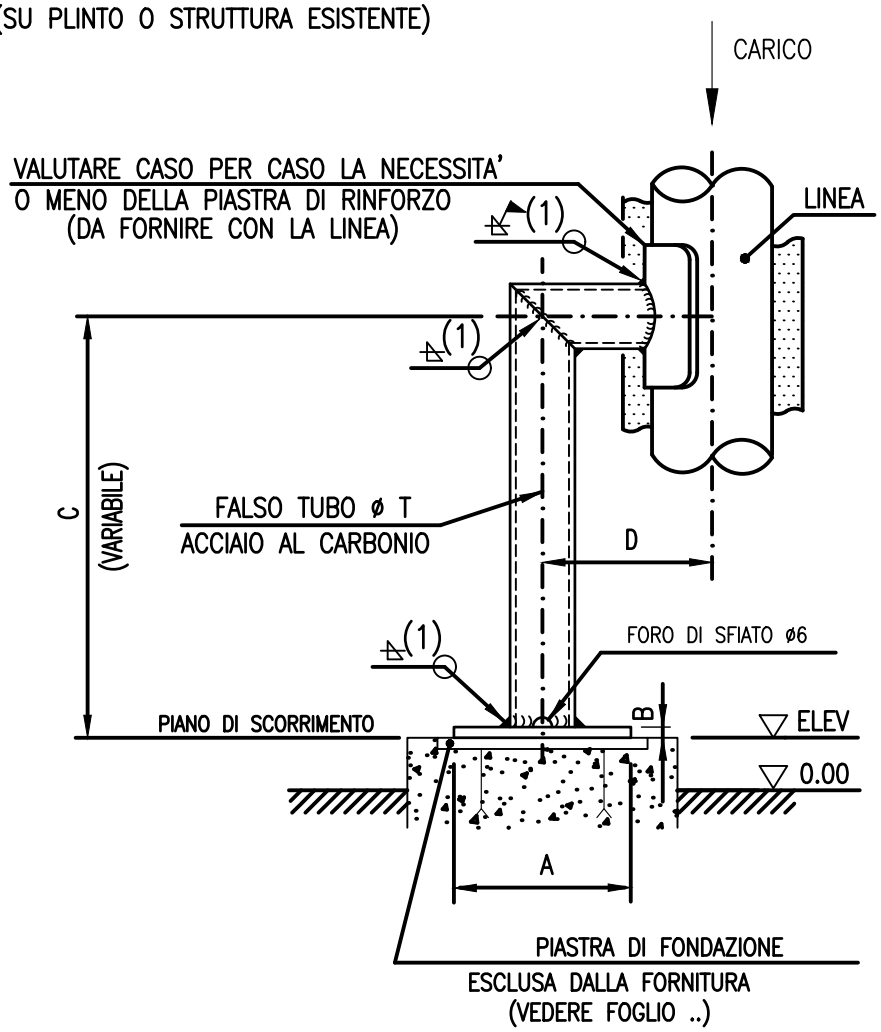
ESEMPI DI DESIGNAZIONE:

1) SU STRUTTURA ESISTENTE
AFC–01/800/250
TIPO
DIMENSIONE C
DIMENSIONE D

2) SU PLINTO:
AFC–01/500/250
TIPO
DIMENSIONE D
DIMENSIONE C



ALTERNATIVA SU STRUTTURA ESISTENTE

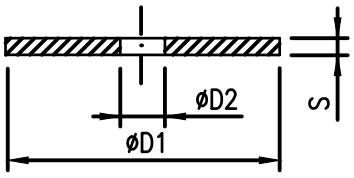


TIPO	DN	FALSO TUBO ø T	FALSO TUBO Sch.	⌀ A	SPESS. B	CARICO MAX kg.	C MAX	D MAX		PESO kg.	PLINTO DI FONDAZIONE TIPO
AFC–01	2"	2"	XS	150	10	160	800	250		VARIABILE	PFA–01
AFC–02	3"	2"	XS	150	10	160	800	250			PFA–01
AFC–03	4"	3"	STD	150	10	400	800	350			PFA–01
AFC–04	6"	3"	STD	150	10	800	900	380			PFA–01
AFC–05	8"	4"	STD	150	10	800	900	400			PFA–01
AFC–06	10"	6"	STD	200	10	1400	900	400			PFA–02
AFC–07	12"	6"	STD	200	10	2200	900	450			PFA–02
AFC–08	14"	6"	STD	200	10	2200	1000	470			PFA–02
AFC–09	16"	8"	STD	250	15	3700	1000	500			PFA–03
AFC–10	18"	8"	STD	250	15	3700	1000	500			PFA–03
AFC–11	20"	10"	XS	300	15	3700	1000	550			PFA–04
AFC–12	24"	10"	XS	300	15	4800	1000	600			PFA–04

NOTE: (1) W= 0.7 x Thk. TUBO

APPOGGIO REGISTRABILE TIPO ARA

(SU PLINTO O STRUTTURA ESISTENTE)

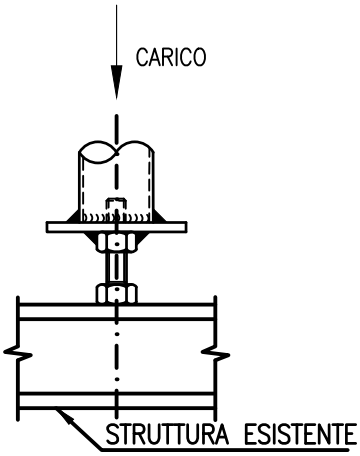


PARTICOLARE 1

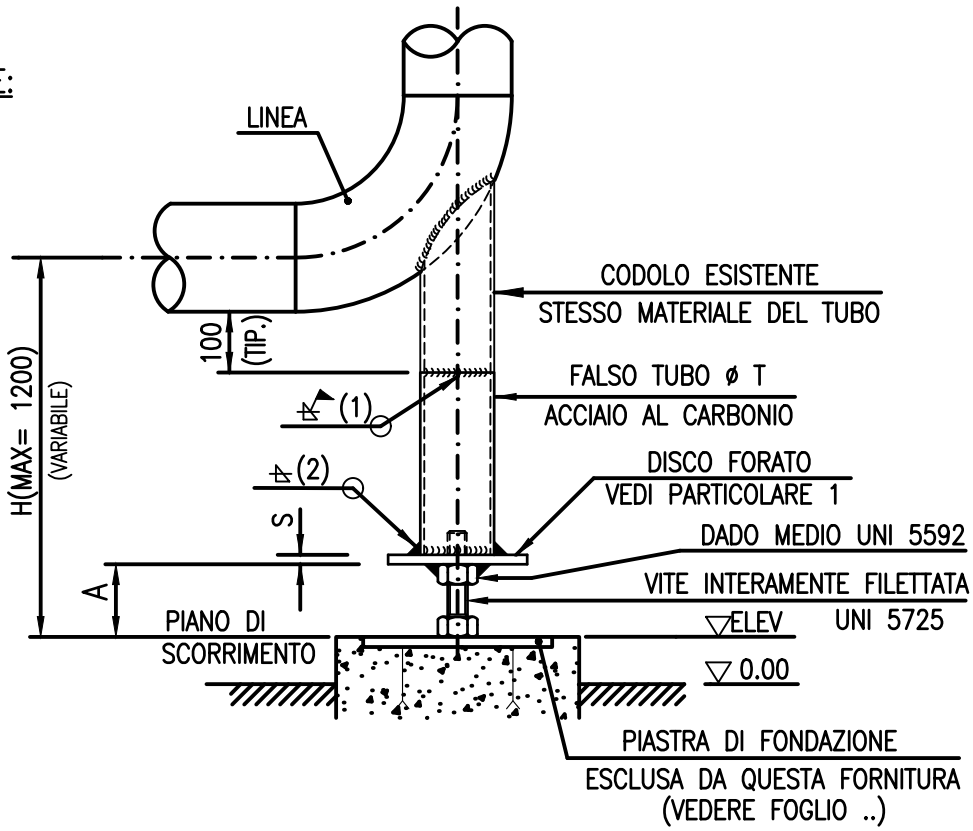
ESEMPI DI DESIGNAZIONE:

1) SU PLINTO:
ARA–01/800
TIPO — DIMENS. H

2) SU STRUTTURA ESISTENTE
ARA–01/800
TIPO
DIMENSIONE H



ALTERNATIVA SU STRUTTURA ESISTENTE



TIPO	DN	FALSO TUBO		H	A	DISCO			VITE+DADO	CARICO	PLINTO DI
		ø T	SCH.	min.		D1	D2	S	TIPO	MAX kg	FONDAZIONE
ARA–01	2"	2"	XS	250	90	100	40	10	M36x120	600	PFA–01
ARA–02	3"	2"	XS	250	90	100	40	10	M36x120	600	PFA–01
ARA–03	4"	3"	STD	300	120	130	45	10	M42x140	600	PFA–01
ARA–04	6"	3"	STD	300	120	130	45	10	M42x140	600	PFA–01
ARA–05	8"	4"	STD	300	120	160	45	20	M42x140	1300	PFA–02
ARA–06	10"	6"	STD	320	130	210	52	20	M48x150	1300	PFA–02
ARA–07	12"	6"	STD	320	130	210	52	20	M48x150	1300	PFA–02
ARA–08	14"	6"	STD	320	130	210	52	20	M48x150	1300	PFA–02
ARA–09	16"	8"	STD	320	130	260	52	20	M48x150	1600	PFA–03
ARA–10	18"	8"	STD	320	130	260	52	20	M48x150	1600	PFA–03
ARA–11	20"	10"	XS	350	140	320	60	20	M56x170	1600	PFA–03
ARA–12	24"	10"	XS	350	140	320	60	20	M56x170	1600	PFA–03

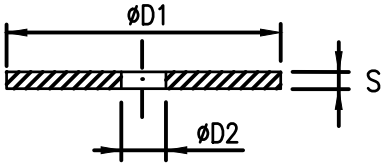
NOTE:

(1) ESTREMITA' SECONDO ASME B 16.25. PREVEDERE SALDATURA BIMETALLICA SE IL CODOLO ESISTENTE E' DI MATERIALE DIVERSO DALL' ACCIAIO AL CARBONIO.

(2) W= 0.7 x Thk. TUBO

APPOGGIO REGISTRABILE TIPO ARB

(SU PLINTO O STRUTTURA ESISTENTE)

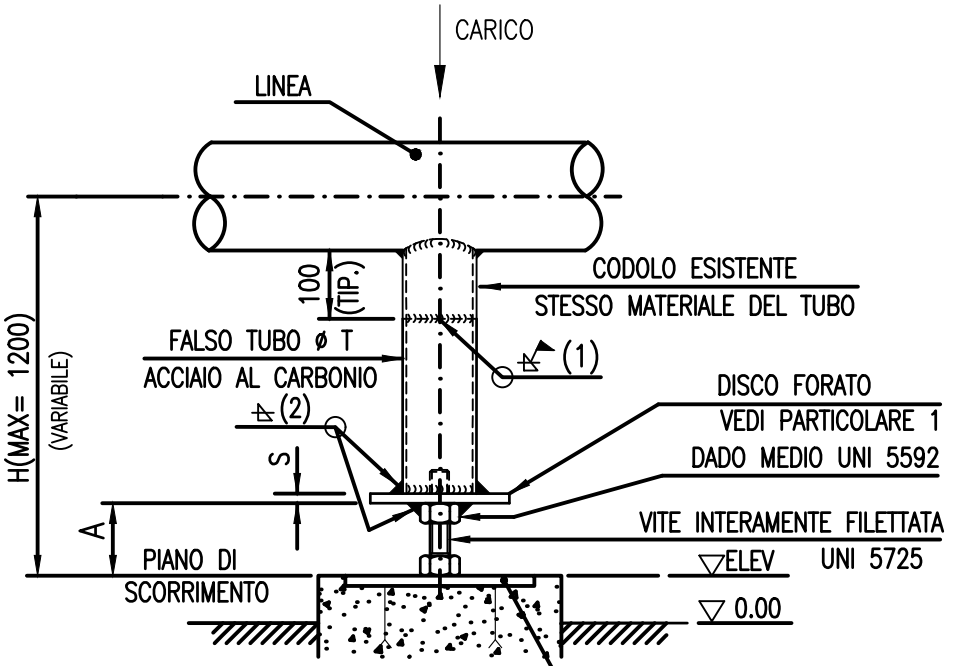


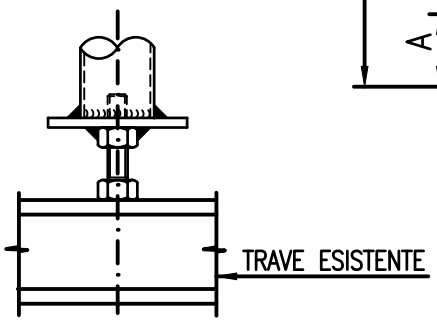
PARTICOLARE 1

ESEMPIO DI DESIGNAZIONE:

1) SU PLINTO:
ARB–01/800
TIPO — DIMENS. H

2) SU STRUTTURA ESISTENTE
ARB–01/800
TIPO
DIMENSIONE H





ALTERNATIVA SU STRUTTURA ESISTENTE

TIPO	DN	FALSO TUBO		H	A	DISCO			VITE+DADO	CARICO	PLINTO DI
		ø T	SCH.	min.		D1	D2	S	TIPO	MAX Kg	FONDAZ.
ARB–01	2"	2"	XS	250	90	100	40	10	M36x120	600	PFA–01
ARB–02	3"	2"	XS	250	90	100	40	10	M36x120	600	PFA–01
ARB–03	4"	3"	STD	300	120	130	45	10	M42x140	600	PFA–01
ARB–04	6"	3"	STD	300	120	130	45	10	M42x140	600	PFA–01
ARB–05	8"	4"	STD	300	120	160	45	20	M42x140	1300	PFA–02
ARB–06	10"	6"	STD	320	130	210	52	20	M48x150	1300	PFA–02
ARB–07	12"	6"	STD	320	130	210	52	20	M48x150	1300	PFA–02
ARB–08	14"	6"	STD	320	130	210	52	20	M48x150	1300	PFA–02
ARB–09	16"	8"	STD	320	130	260	52	20	M48x150	1600	PFA–03
ARB–10	18"	8"	STD	320	130	260	52	20	M48x150	1600	PFA–03
ARB–11	20"	10"	XS	350	140	320	60	20	M56x170	1600	PFA–03
ARB–12	24"	10"	XS	350	140	320	60	20	M56x170	1600	PFA–03

NOTE:

(1) ESTREMITA' SECONDO ASME B 16.25. PREVEDERE SALDATURA BIMETALLICA SE IL CODOLO ESISTENTE E' DI MATERIALE DIVERSO DALL' ACCIAIO AL CARBONIO.

(2) W= 0.7 x Thk. TUBO

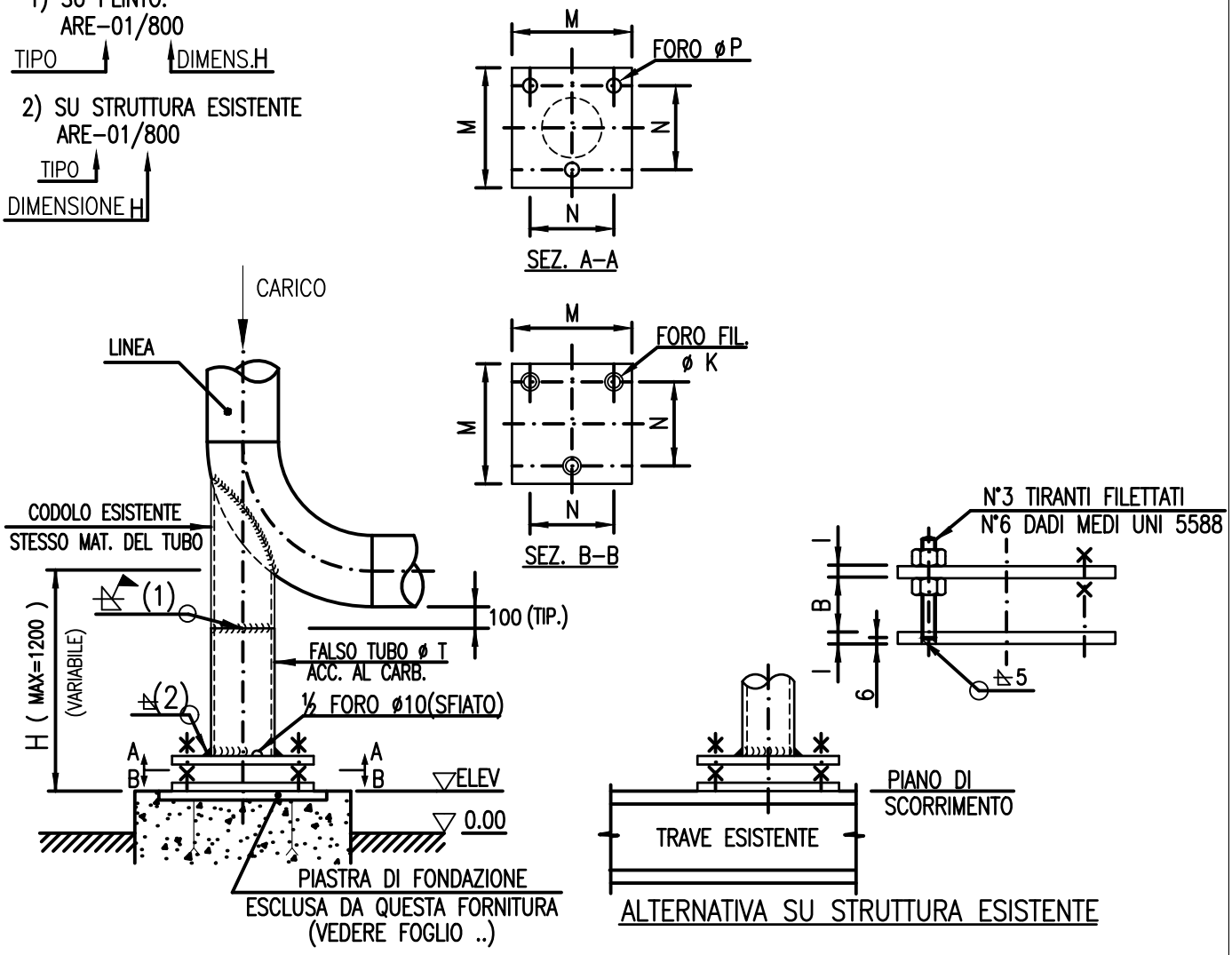
APPOGGIO REGISTRABILE TIPO ARE

(SU PLINTO O STRUTTURA ESISTENTE)

ESEMPI DI DESIGNAZIONE:

1) SU PLINTO:
ARE–01/800
TIPO — DIMENS.H

2) SU STRUTTURA ESISTENTE
ARE–01/800
TIPO
DIMENSIONE H



TIPO	DN	FALSO TUBO ø T	FALSO TUBO SCH.	A MAX	B	H	I	FIL. K	M	N	P		N° 3 TIRANTI FIL.	CARICO MAX kg	PLINTO DI FONDAZIONE
ARE–01	2"	2"	XS	250	70	VARIABILE	20	M20	200	160	22		M20x130	500	PFA–02
ARE–02	3"	2"	XS	250	70		20	M20	200	160	22		M20x130	750	PFA–02
ARE–03	4"	3"	STD	350	70		20	M20	240	160	22		M20x130	1000	PFA–03
ARE–04	6"	3"	STD	380	70		20	M20	260	180	22		M20x130	1500	PFA–03
ARE–05	8"	4"	STD	400	75		25	M24	280	200	26		M24x150	1800	PFA–03
ARE–06	10"	6"	STD	400	75		25	M24	320	220	26		M24x150	2100	PFA–04
ARE–07	12"	6"	STD	450	75		25	M24	350	250	26		M24x150	2300	PFA–05
ARE–08	14"	6"	STD	470	75		25	M24	350	250	26		M24x150	2300	PFA–05
ARE–09	16"	8"	STD	500	75		25	M24	350	250	26		M24x150	2950	PFA–07
ARE–10	18"	8"	STD	500	75		25	M24	350	250	26		M24x150	2950	PFA–07
ARE–11	20"	10"	XS	550	75		25	M24	400	350	26		M24x150	3600	PFA–08
ARE–12	24"	10"	XS	600	75		25	M24	400	350	26		M24x150	3600	PFA–08

NOTE:

(1) ESTREMITA' SECONDO ASME B 16.25. PREVEDERE SALDATURA BIMETALLICA SE IL CODOLO ESISTENTE E' DI MATERIALE DIVERSO DALL' ACCIAIO AL CARBONIO.

(2) W= 0.7 x Thk. TUBO

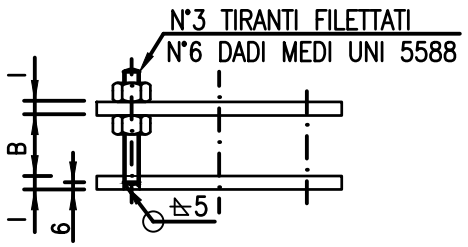
APPOGGIO REGISTRABILE TIPO ARF

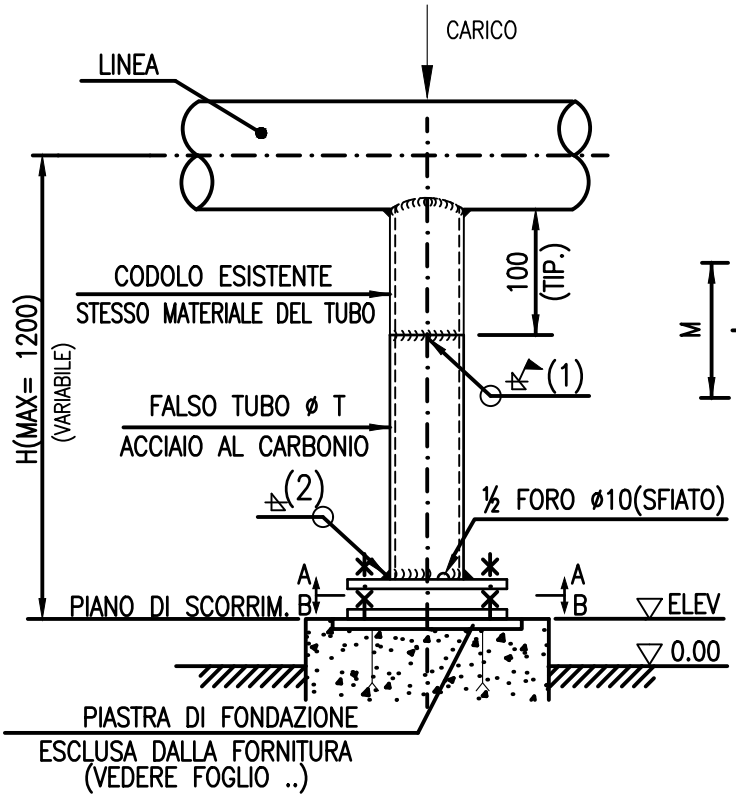
ESEMPI DI DESIGNAZIONE:

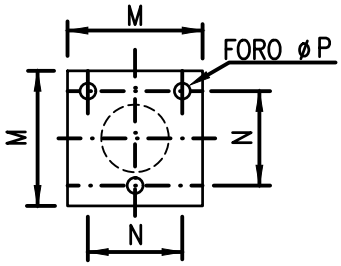
1) SU PLINTO:
ARF–01/800
TIPO — DIMENS. H

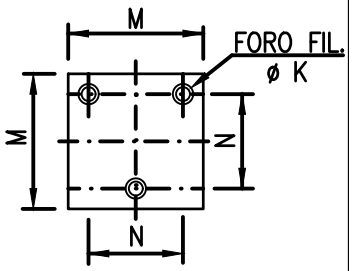
2) SU STRUTTURA ESISTENTE
ARF–01/800
TIPO
DIMENSIONE H

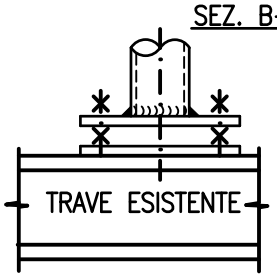
(SU PLINTO O STRUTTURA ESISTENTE)











ALTERNATIVA SU STRUTTURA ESISTENTE

TIPO	DN	FALSO TUBO ø T	FALSO TUBO SCH.		B	H	I	FIL. K	M	N	P		N° 3 TIRANTI FIL.	CARICO MAX kg	PLINTO DI FONDAZIONE
ARF–01	2"	2"	XS		70	VARIABILE	20	M20	200	160	22		M20x130	500	PFA–02
ARF–02	3"	2"	XS		70		20	M20	200	160	22		M20x130	750	PFA–02
ARF–03	4"	3"	STD		70		20	M20	240	160	22		M20x130	1000	PFA–03
ARF–04	6"	3"	STD		70		20	M20	260	180	22		M20x130	1500	PFA–03
ARF–05	8"	4"	STD		75		25	M24	280	200	26		M24x150	1800	PFA–03
ARF–06	10"	6"	STD		75		25	M24	320	220	26		M24x150	2100	PFA–04
ARF–07	12"	6"	STD		75		25	M24	350	250	26		M24x150	2300	PFA–05
ARF–08	14"	6"	STD		75		25	M24	350	250	26		M24x150	2300	PFA–05
ARF–09	16"	8"	STD		75		25	M24	350	250	26		M24x150	2950	PFA–07
ARF–10	18"	8"	STD		75		25	M24	350	250	26		M24x150	2950	PFA–07
ARF–11	20"	10"	XS		75		25	M24	400	350	26		M24x150	3600	PFA–08
ARF–12	24"	10"	XS		75		25	M24	400	350	26		M24x150	3600	PFA–08

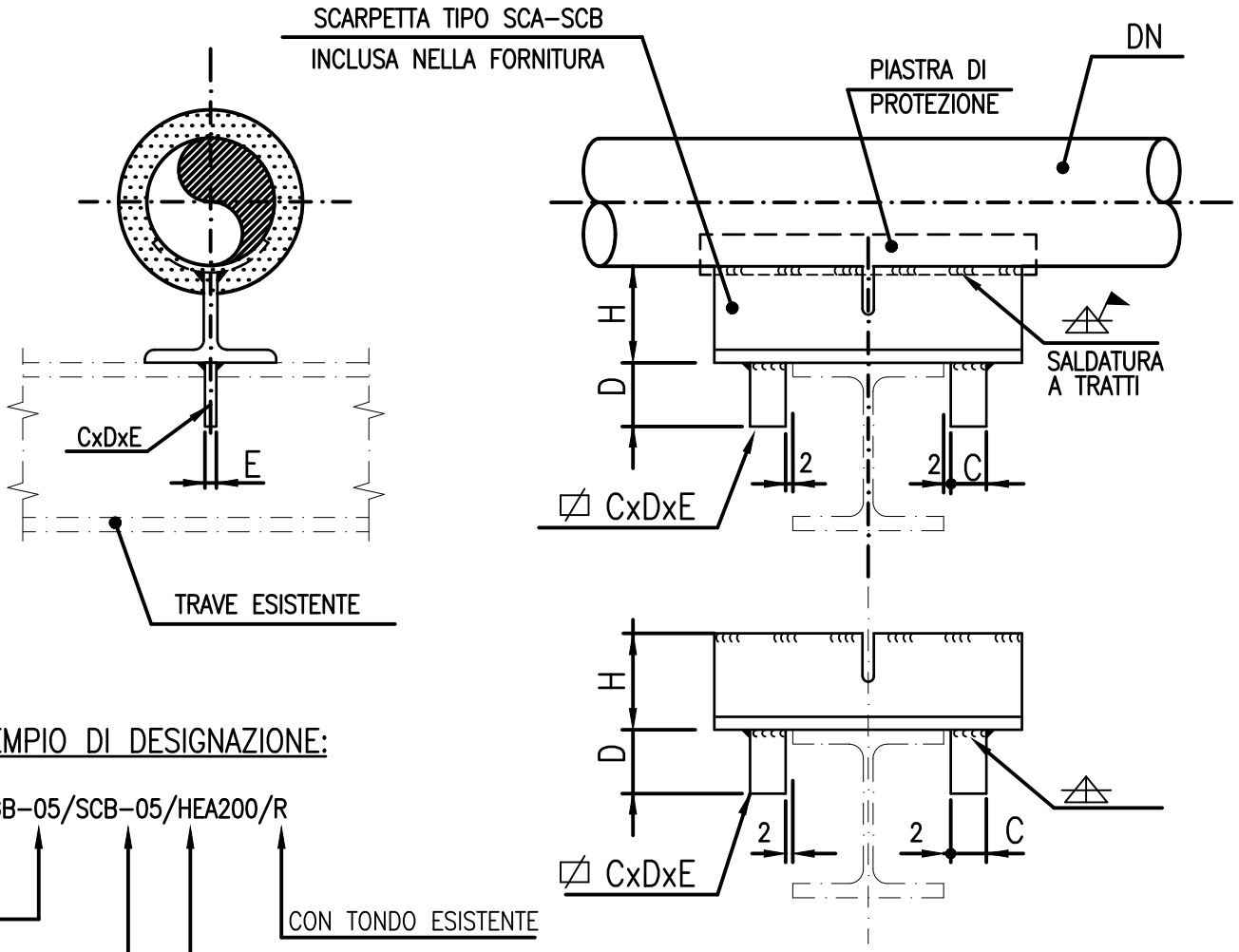
NOTE:

(1) ESTREMITA' SECONDO ASME B 16.25. PREVEDERE SALDATURA BIMETALLICA SE IL CODOLO ESISTENTE E' DI MATERIALE DIVERSO DALL' ACCIAIO AL CARBONIO.

(2) W= 0.7 x Thk. TUBO

APPOGGIO CON STOP ASSIALE TIPO AGB

(PER LINEE COIBENTATE ø 1/2" ÷ 3")



ESEMPIO DI DESIGNAZIONE:

AGB–05/SCB–05/HEA200/R

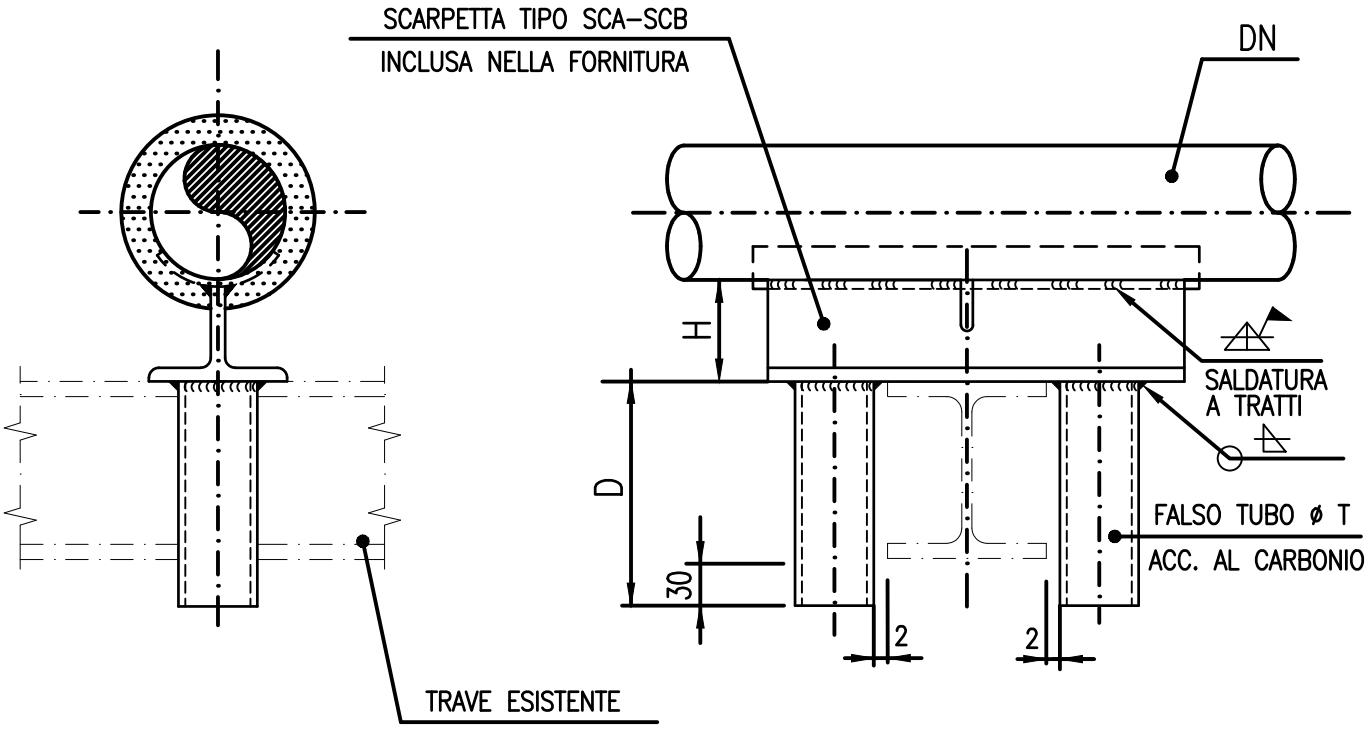
- AGB–05 → TIPO
- SCB–05 → TIPO SCARPETTA
- HEA200 → TRAVE ESISTENTE
- R → CON TONDO ESISTENTE

TIPO	DN	FALSO TUBO		SCARPETTA		C	D	E			PESO kg.	
		ø T	Sch.	TIPO	H							
AGB–01	1/2"			SCA/SCB–01	100	40	60	5			0.2	
AGB–02	3/4"			SCA/SCB–02	100	40	60	5			0.2	
AGB–03	1"			SCA/SCB–03	100	40	60	5			0.2	
AGB–04	1½"			SCA/SCB–04	100	40	60	5			0.2	
AGB–05	2"			SCA/SCB–05	100	50	70	10			0.6	
AGB–06	3"			SCA/SCB–06	100	50	70	10			0.6	

NOTE: (1) QUANDO LA TRAVE ESISTENTE NON PREVEDE IL TONDO, LA QUOTA "D" DEL PIATTO E' UGUALE ALLA QUOTA "C".

APPOGGIO CON STOP ASSIALE TIPO AGB

(PER LINEE COIBENTATE ø 4" ÷ 8")



ESEMPIO DI DESIGNAZIONE:

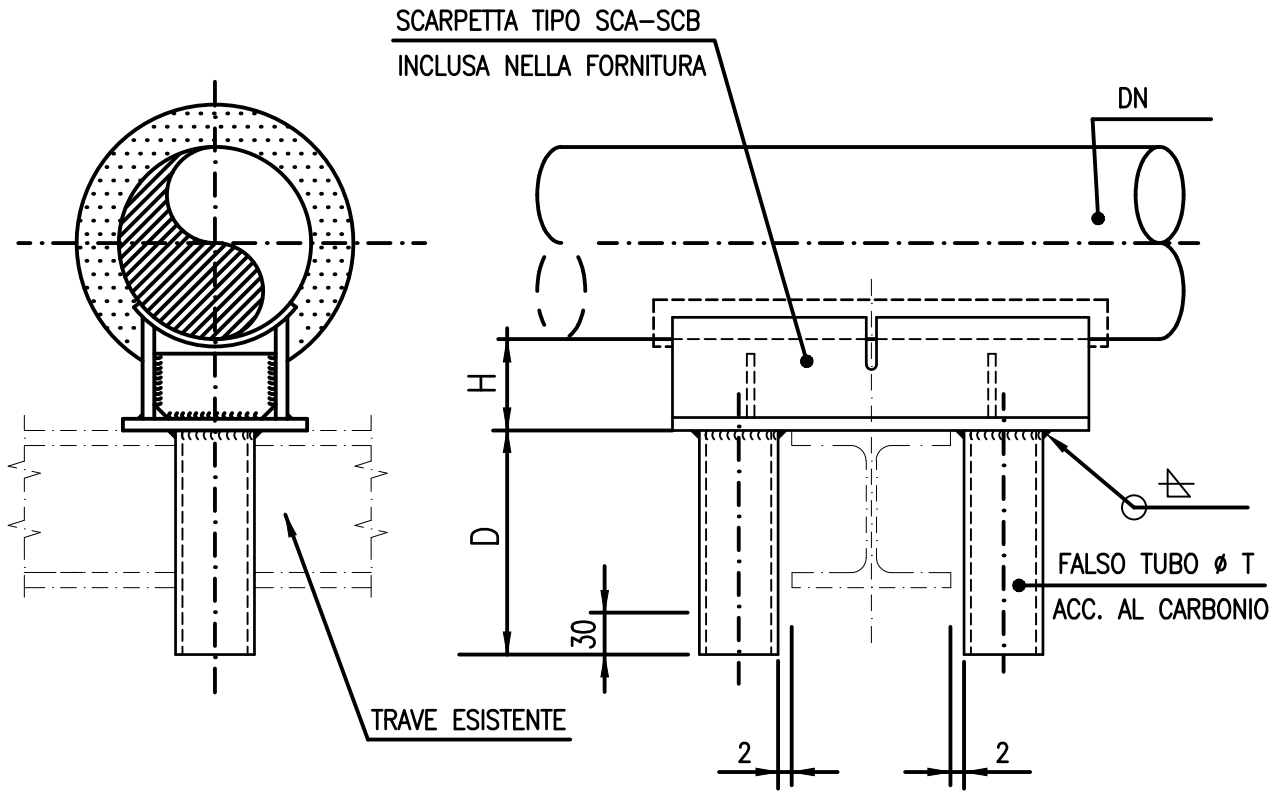
AGB–05/SCB–05/HEA200/R

- AGB–05 → TIPO
- SCB–05 → TIPO SCARPETTA
- HEA200 → TRAVE ESISTENTE
- R → CON TONDO ESISTENTE

TIPO	DN	FALSO TUBO		SCARPETTA			D		PESO kg.	
		ø T	Sch.	TIPO	H					
AGB–07	4"	2"	XS	SCA/SCB–07	100		VARIABILE		VARIABILE	
AGB–08	6"	2"	XS	SCA/SCB–08	100					
AGB–09	8"	2"	XS	SCA/SCB–09	100					

APPOGGIO CON STOP ASSIALE TIPO AGB

(PER LINEE COIBENTATE ø 10" ÷ 24")



ESEMPIO DI DESIGNAZIONE:

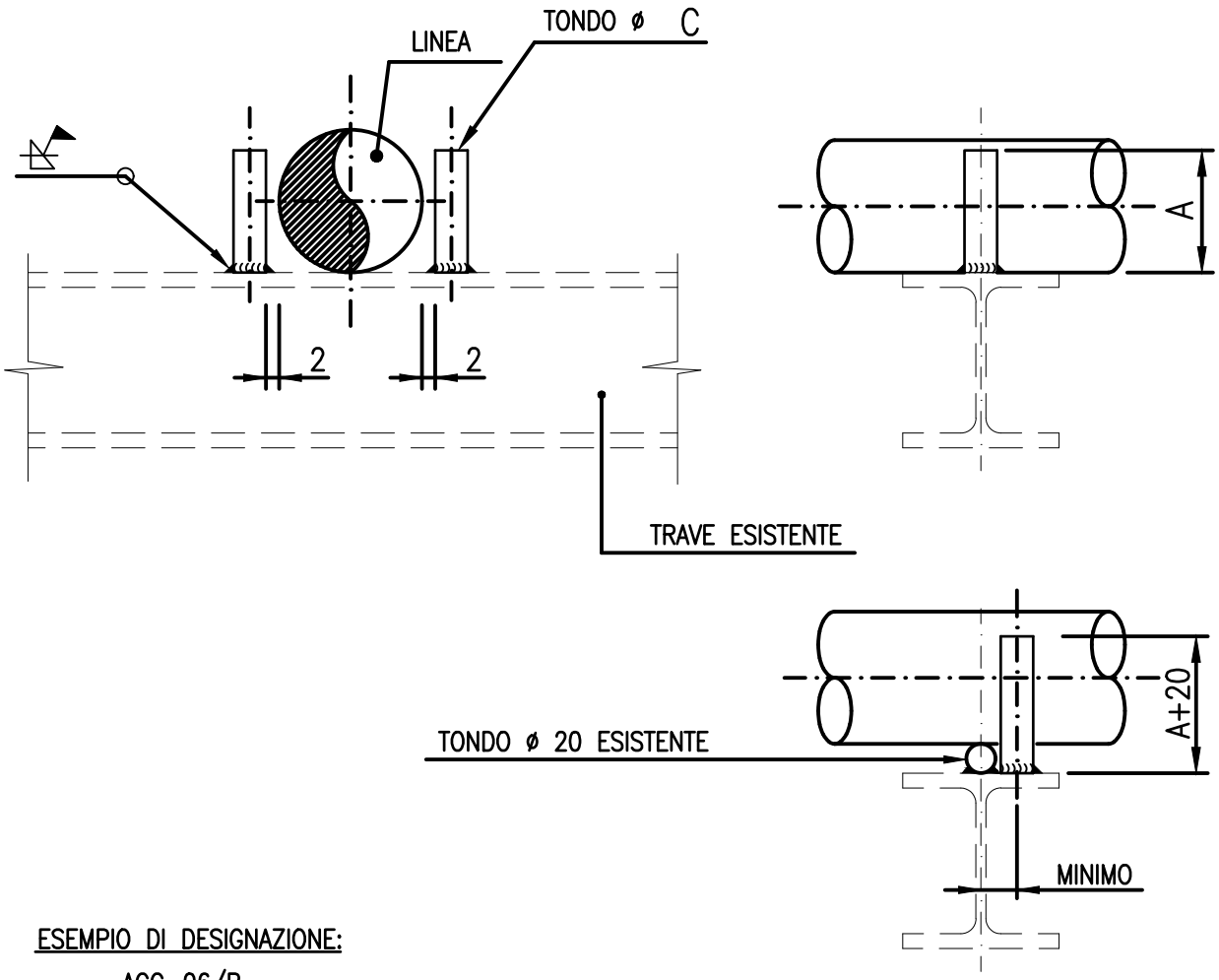
AGB–11/SCB–11/150/HEA240/300/R ← CON TONDO ESISTENTE

- TIPO
- TIPO SCARPETTA
- ALTEZZA H
- TRAVE ESISTENTE
- LUNGHEZZA D

TIPO	DN	FALSO TUBO		SCARPETTA		D					PESO kg.	
		ø T	Sch.	TIPO	H							
AGB–10	10"	3"	STD	SCA/SCB–10	100÷200	VARIABILE					VARIABILE	
AGB–11	12"	3"	STD	SCA/SCB–11	100÷200							
AGB–12	14"	3"	STD	SCA/SCB–12	100÷200							
AGB–13	16"	3"	STD	SCA/SCB–13	100÷200							
AGB–14	18"	3"	STD	SCA/SCB–14	100÷200							
AGB–15	20"	3"	STD	SCA/SCB–15	100÷200							
AGB–16	24"	3"	STD	SCA/SCB–16	100÷200							

APPOGGIO CON GUIDA LATERALE TIPO AGC

(PER LINEE NON COIBENTATE ø 1/2" ÷ 3")



ESEMPIO DI DESIGNAZIONE:

AGC–06/R

TIPO

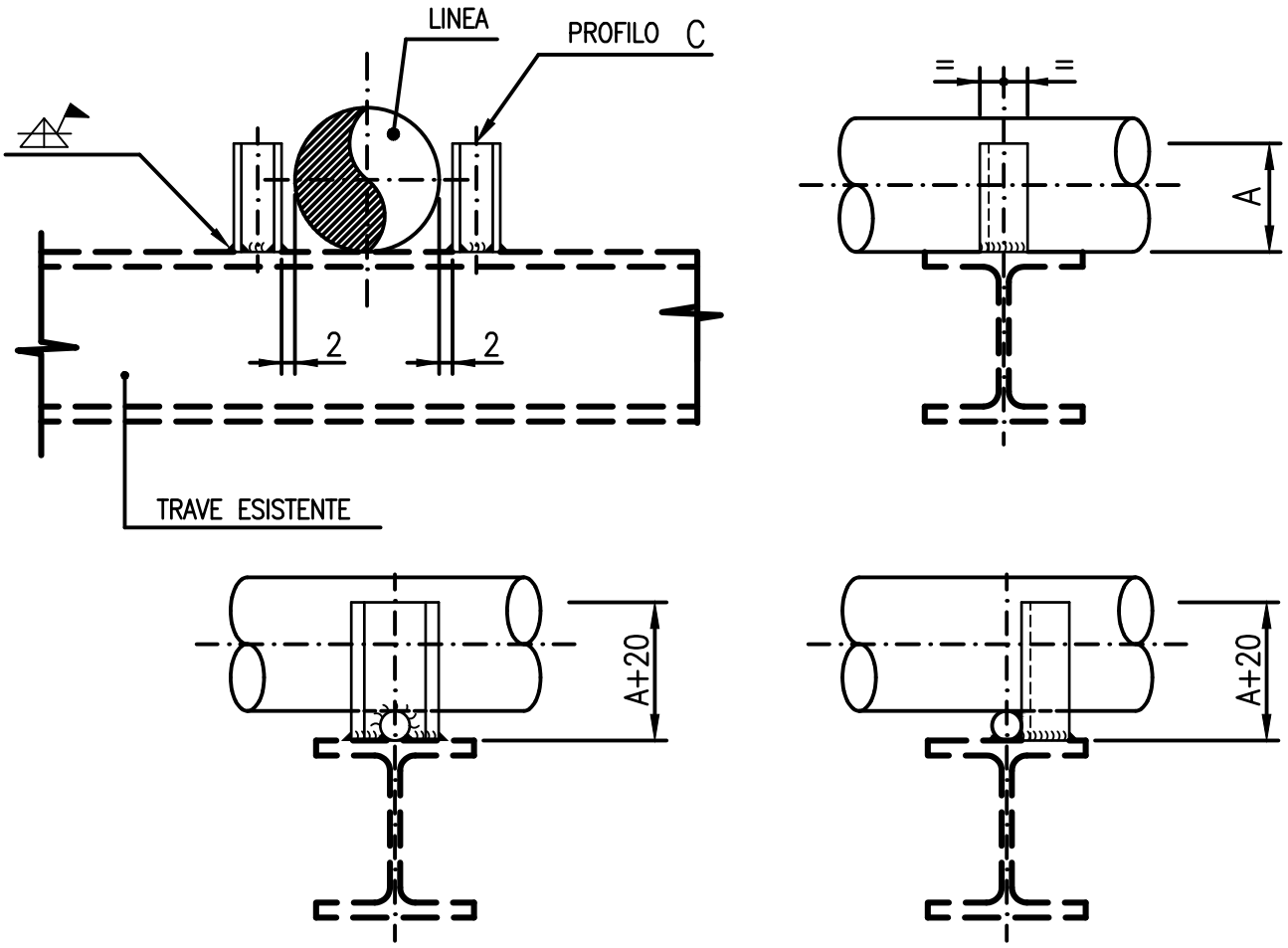
INDICAZIONE DI TONDO QUANDO ESISTENTE

VARIANTE CON TONDO SU TRAVE ESISTENTE

TIPO	DN	A		ø C	PESO kg
AGC–01	1/2"	20		12	0.1
AGC–02	3/4"	25		12	0.2
AGC–03	1"	30		16	0.3
AGC–04	1.½"	40		16	0.4
AGC–05	2"	50		16	0.9
AGC–06	3"	80		20	1.0

APPOGGIO CON GUIDA LATERALE TIPO AGC

(PER LINEE NON COIBENTATE ø 4" ÷ 24")



VARIANTI CON TONDO ø 20 SU TRAVE ESISTENTE

ESEMPIO DI DESIGNAZIONE:

AGC–10/R

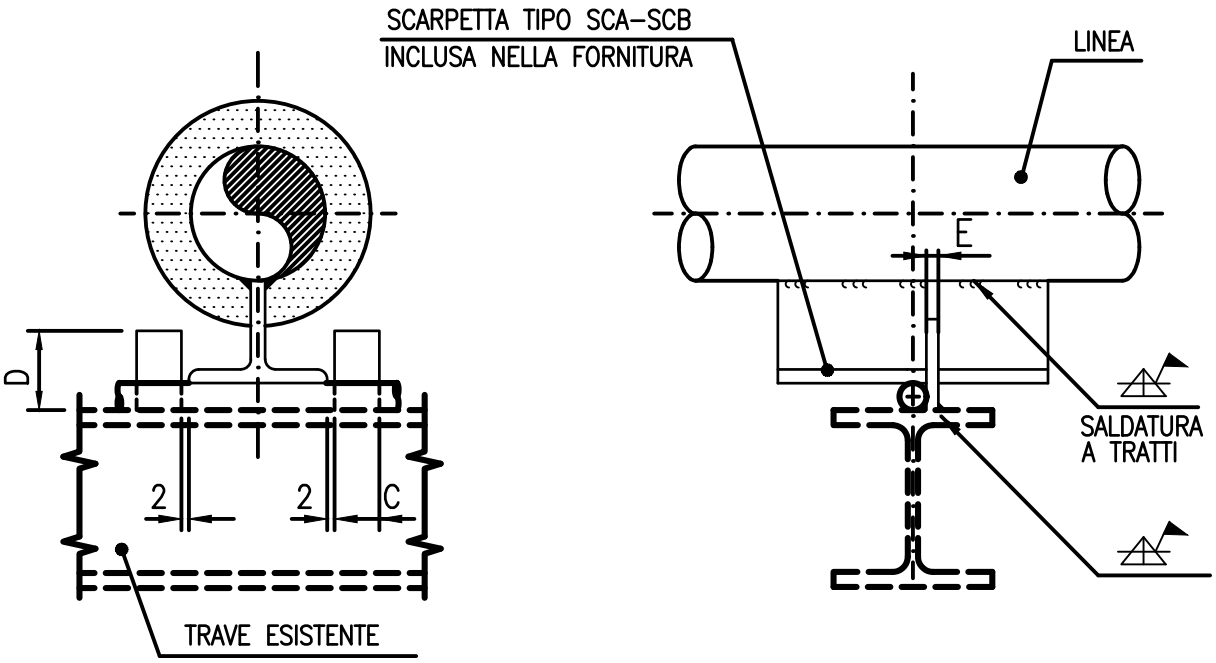
TIPO

INDICAZIONE DI TONDO QUANDO ESISTENTE

TIPO	DN	A		PROFILO C	PESO Tot.kg
AGC–07	4"	100		UPN 65	1.41
AGC–08	6"	125		UPN 65	1.78
AGC–09	8"	150		UPN 65	2.12
AGC–10	10"	180		UPN 80	3.11
AGC–11	12"	200		UPN 80	3.46
AGC–12	14"	220		UPN 80	3.80
AGC–13	16"	240		HEA 100	8.0
AGC–14	18"	270		HEA 100	9.01
AGC–15	20"	300		HEA 100	10.02
AGC–16	24"	350		HEA 100	11.7

APPOGGIO CON GUIDA LATERALE TIPO AGE

(PER LINEE COIBENTATE ø 1/2" ÷ 1 1/2")



ESEMPIO DI DESIGNAZIONE:

AGE–01/SCA–01/R ← CON TONDO ESISTENTE

TIPO ↑ ↑ TIPO SCARPETTA

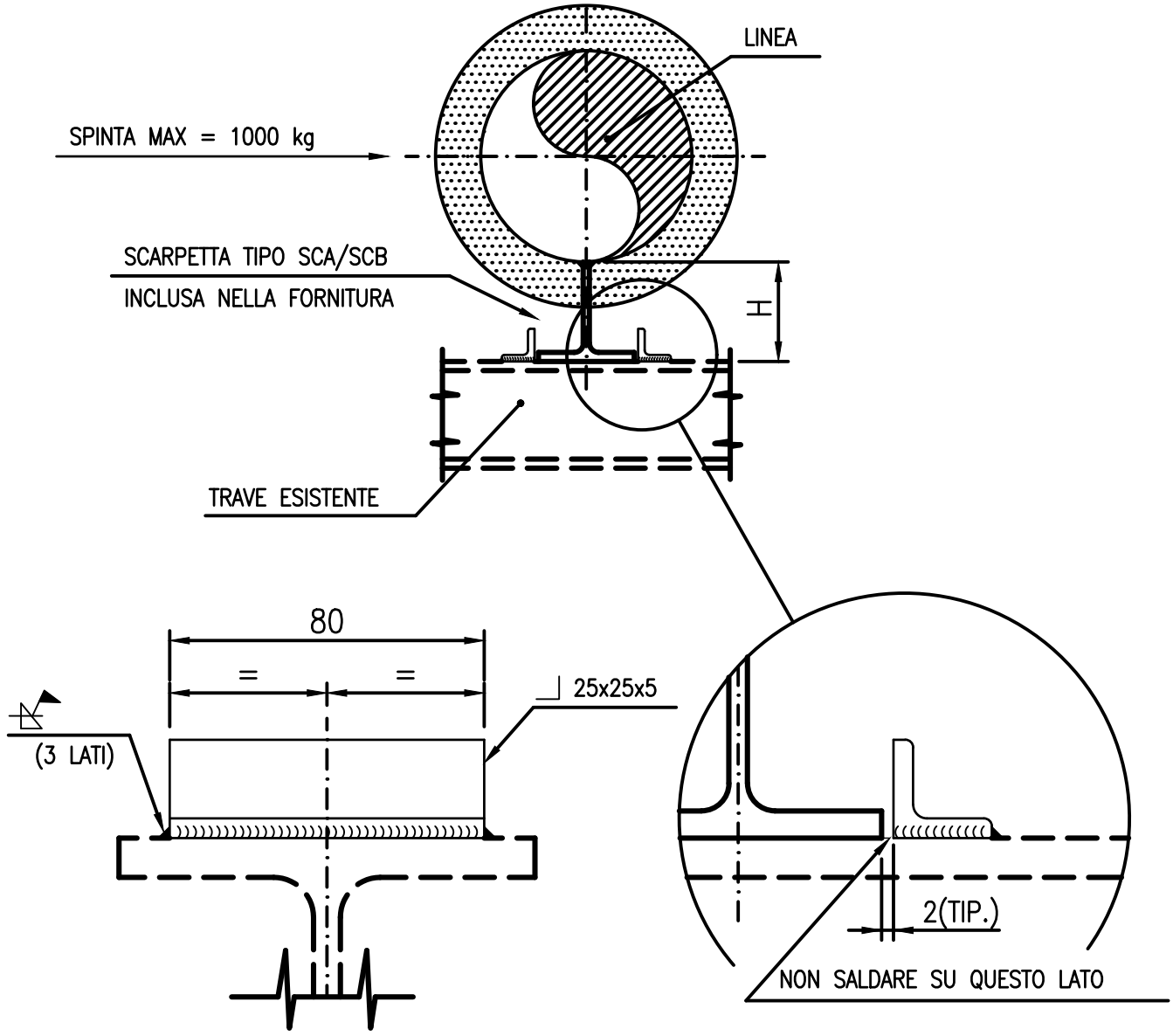
TIPO	DN	FALSO TUBO		SCARPETTA		C	D	E			PESO kg.	
		ø T	Sch.	TIPO	H							
AGE–01	1/2"			SCA/SCB–01	100	40	60	5			0.2	
AGE–02	3/4"			SCA/SCB–02	100	40	60	5			0.2	
AGE–03	1"			SCA/SCB–03	100	40	60	5			0.2	
AGE–04	1½"			SCA/SCB–04	100	40	60	5			0.2	

NOTE:

(1) QUANDO LA TRAVE ESISTENTE NON PREVEDE IL TONDO, LA QUOTA "D" DEL PIATTO E' UGUALE ALLA QUOTA "C".

APPOGGIO CON GUIDA LATERALE TIPO AGF

(PER LINEE COIBENTATE ø 2"÷24")



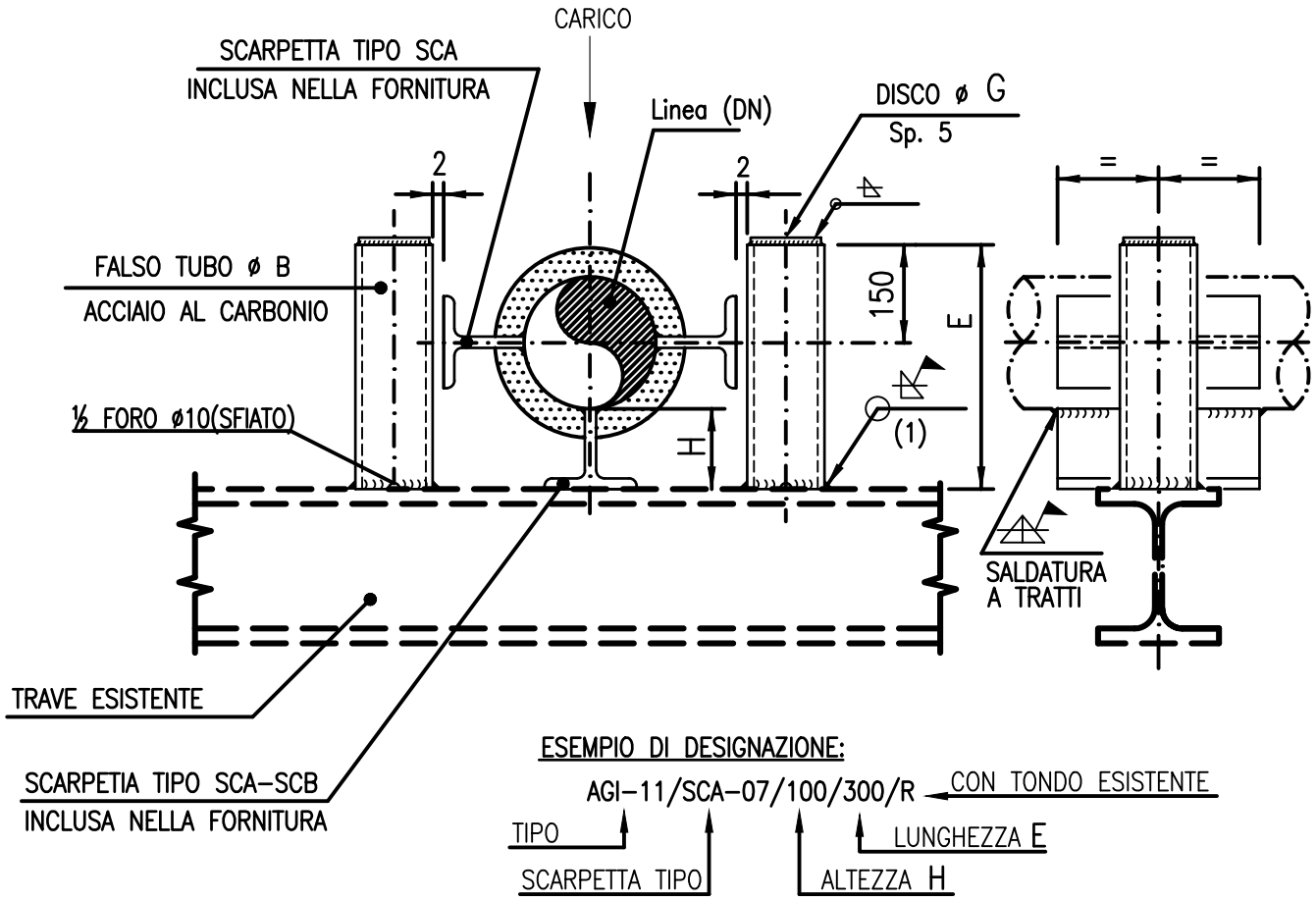
ESEMPIO DI DESIGNAZIONE:

AGF/SCA–05/100

- 05 → ALTEZZA H
- SCA → TIPO SCARPETTA

APPOGGIO CON GUIDA LATERALE TIPO AGI

(PER LINEE COIBENTATE ø 4"÷24")



ESEMPIO DI DESIGNAZIONE:

AGI–11/SCA–07/100/300/R ← CON TONDO ESISTENTE

TIPO

SCARPETTA TIPO

LUNGHEZZA E

ALTEZZA H

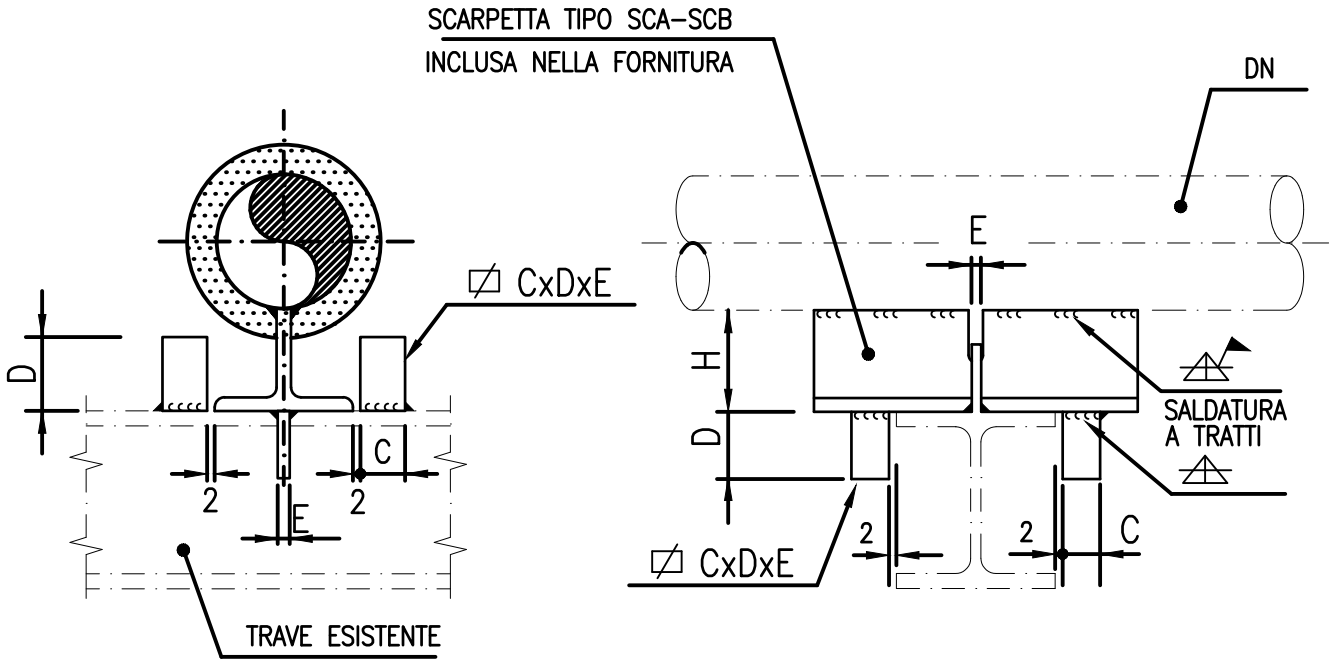
TIPO	DN	FALSO TUBO		SCARPETTA		E			ø G		PESO kg.	CARICO MAX kg.
		ø T	Sch.	TIPO	H							
AGI–07	4"	2"	XS	SCA/SCB–07	100	VARIABILE			54		VARIABILE	1000
AGI–08	6"	2"	XS	SCA/SCB–08	100				54			1300
AGI–09	8"	2"	XS	SCA/SCB–09	100				54			1500
AGI–10	10"	3"	STD	SCA/SCB–10	100÷200				83			2000
AGI–11	12"	3"	STD	SCA/SCB–11	100÷200				83			2000
AGI–12	14"	3"	STD	SCA/SCB–12	100÷200				83			2300
AGI–13	16"	3"	STD	SCA/SCB–13	100÷200				83			2500
AGI–14	18"	3"	STD	SCA/SCB–14	100÷200				83			2500
AGI–15	20"	3"	STD	SCA/SCB–15	100÷200				83			3000
AGI–16	24"	3"	STD	SCA/SCB–16	100÷200				83			3500

NOTE:

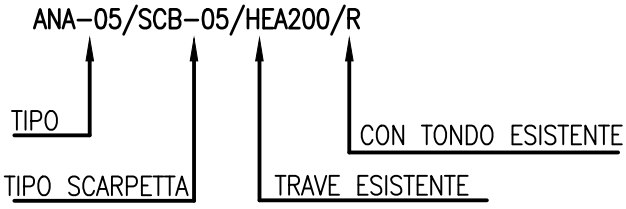
1) ADATTARE E SALDARE IN OPERA ANCHE AL TONDO, QUANDO PRESENTE.

APPOGGIO CON STOP E GUIDA TIPO ANA

(PER LINEE COIBENTATE ø 1/2" ÷ 3")



ESEMPIO DI DESIGNAZIONE:



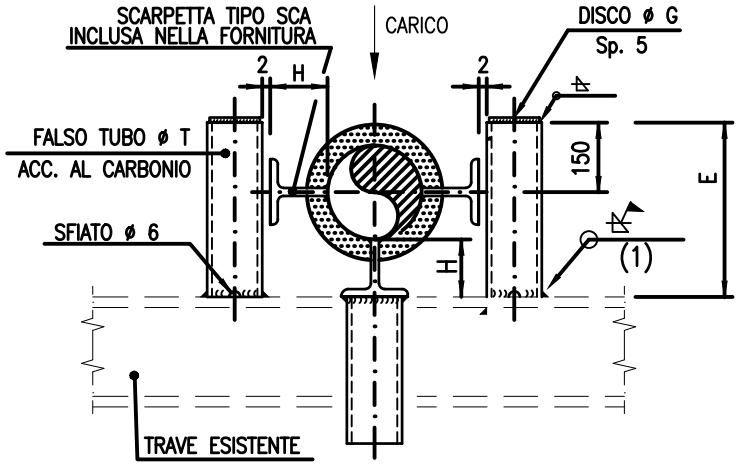
TIPO	DN	FALSO TUBO		SCARPETTA		C	D	E			PESO kg.	
		ø T	Sch.	TIPO	H							
ANA–01	1/2"			SCA/SCB–01	100	40	60	5			0.4	
ANA–02	3/4"			SCA/SCB–02	100	40	60	5			0.4	
ANA–03	1"			SCA/SCB–03	100	40	60	5			0.4	
ANA–04	1½"			SCA/SCB–04	100	40	60	5			0.4	
ANA–05	2"			SCA/SCB–05	100	50	70	10			1.2	
ANA–06	3"			SCA/SCB–06	100	50	70	10			1.2	

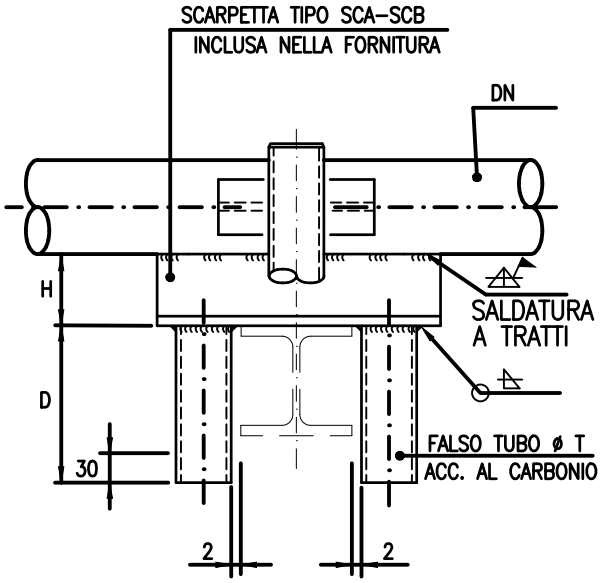
NOTE:

(1) QUANDO LA TRAVE ESISTENTE NON PREVEDE IL TONDO, LA QUOTA "D" DEL PIATTO E' UGUALE ALLA QUOTA "C".

APPOGGIO CON STOP E GUIDA TIPO ANB

(PER LINEE COIBENTATE ø 4"÷ 24")





ESEMPIO DI DESIGNAZIONE:

ANB–11/SCB–11/100/SCA–11/100/HEA 400/300/320/R

- TIPO
- ALTEZZA H SCARPETTA DI APPOGGIO
- TIPO SCARPETTA DI APPOGGIO
- ALTEZZA H SCARPETTA DI GUIDA
- TIPO SCARPETTA DI GUIDA
- TRAVE ESIST.
- LUNGHEZZA E
- LUNGHEZZA D
- CON TONDO ESISTENTE

TIPO	DN	FALSO TUBO		SCARPETTA		D	E		ø G		PESO kg.	CARICO MAX kg.
		ø T	Sch.	TIPO	H							
ANB–07	4"	2"	XS	SCA/SCB–07	100	VARIABILE	VARIABILE		54		VARIABILE	1000
ANB–08	6"	2"	XS	SCA/SCB–08	100				54			1300
ANB–09	8"	2"	XS	SCA/SCB–09	100				54			1500
ANB–10	10"	3"	STD	SCA/SCB–10	100÷200				83			2000
ANB–11	12"	3"	STD	SCA/SCB–11	100÷200				83			2000
ANB–12	14"	3"	STD	SCA/SCB–12	100÷200				83			2300
ANB–13	16"	3"	STD	SCA/SCB–13	100÷200				83			2500
ANB–14	18"	3"	STD	SCA/SCB–14	100÷200				83			2500
ANB–15	20"	3"	STD	SCA/SCB–15	100÷200				83			3000
ANB–16	24"	3"	STD	SCA/SCB–16	100÷200				83			3500

NOTE:

1) ADATTARE E SALDARE IN OPERA ANCHE AL TONDO, QUANDO PRESENTE.

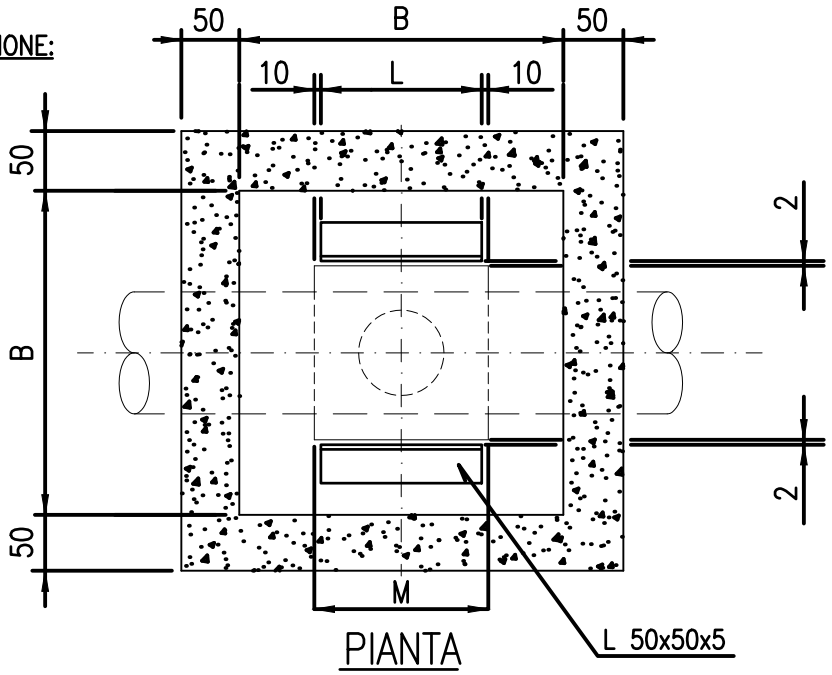
ANGOLARI PER GUIDE O STOP TIPO ANP

(PER APPOGGI)

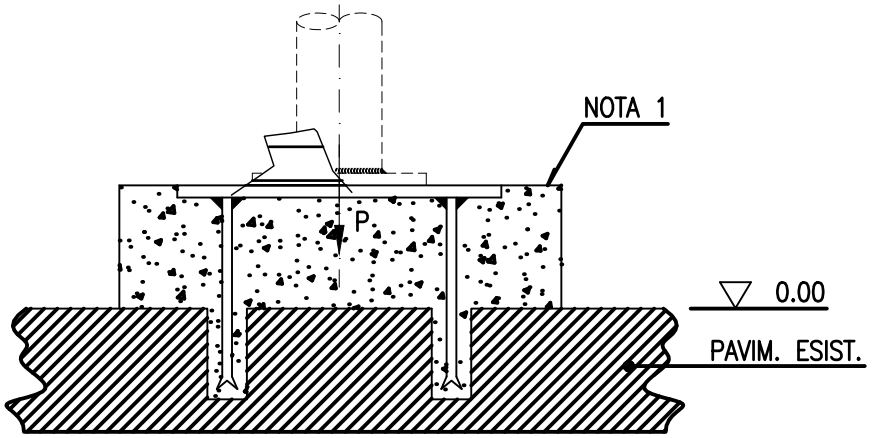
ESEMPIO DI DESIGNAZIONE:

ANP–04

TIPO



PIANTA



TIPO	LATO "M" PIASTRA SUPP.	PLINTO DI FONDAZIONE	B	L
ANP–01	150	PFA–03	300	130
ANP–02	200	PFA–04	350	180
ANP–03	240	PFA–05	390	220
ANP–04	250	PFA–05	390	230
ANP–05	260	PFA–06	420	240
ANP–06	280	PFA–06	420	260
ANP–07	300	PFA–07	470	280
ANP–08	320	PFA–07	470	300
ANP–09	350	PFA–07	470	330
ANP–10	400	PFA–08	550	380

NOTA:

1) LA PIASTRA DI FONDAZIONE COMPLETA DI ZANCHE ED IL PLINTO SARANNO FORNITI ED ESEGUITI DAI CIVILI DURANTE IL MONTAGGIO DELL'INTERO SUPPORTO

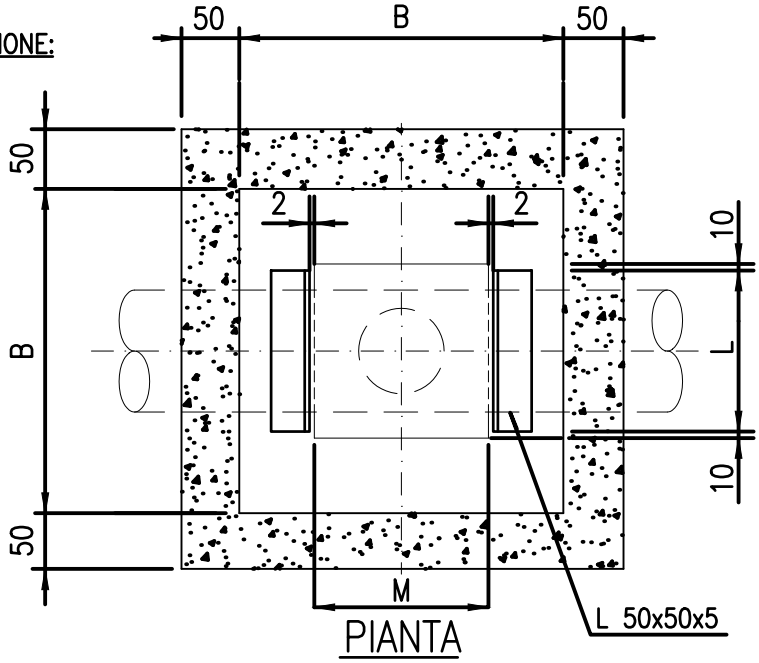
ANGOLARI PER GUIDE O STOP TIPO ANQ

(PER APPOGGI)

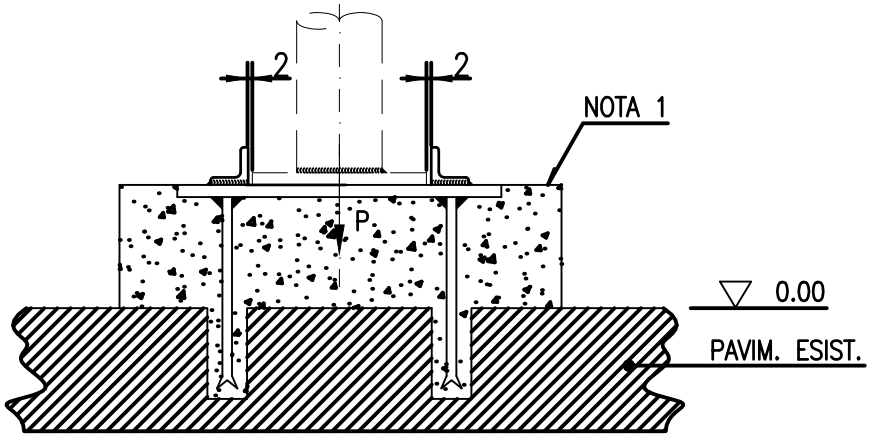
ESEMPIO DI DESIGNAZIONE:

ANP–04

TIPO



PIANTA



TIPO	LATO "M" PIASTRA SUPP.	PLINTO DI FONDAZIONE	B	L
ANQ–01	150	PFA–03	300	130
ANQ–02	200	PFA–04	350	180
ANQ–03	240	PFA–05	390	220
ANQ–04	250	PFA–05	390	230
ANQ–05	260	PFA–06	420	240
ANQ–06	280	PFA–06	420	260
ANQ–07	300	PFA–07	470	280
ANQ–08	320	PFA–07	470	300
ANQ–09	350	PFA–07	470	330
ANQ–10	400	PFA–08	550	380

NOTA:

1) LA PIASTRA DI FONDAZIONE COMPLETA DI ZANCHE ED IL PLINTO SARANNO FORNITI ED ESEGUITI DAI CIVILI DURANTE IL MONTAGGIO DELL'INTERO SUPPORTO

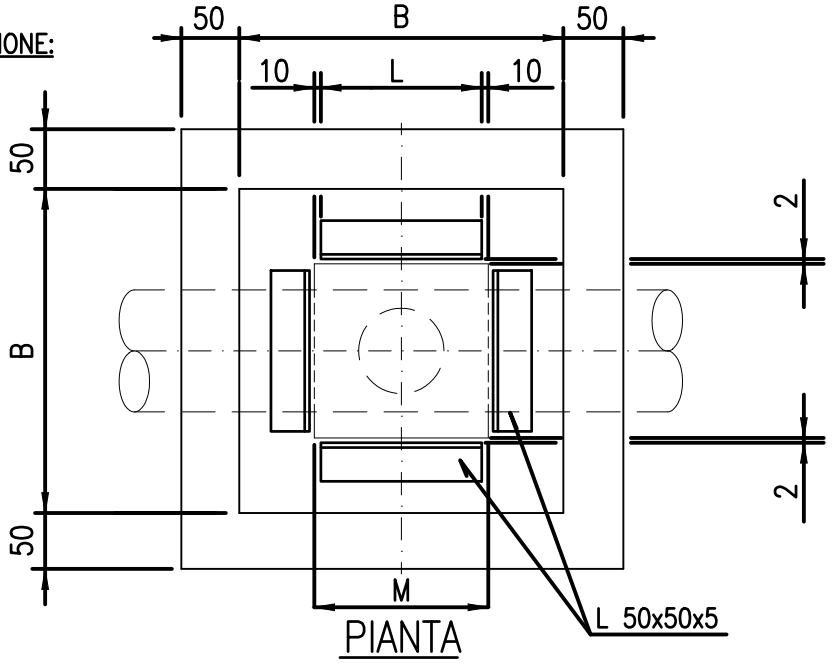
ANGOLARI PER GUIDE O STOP TIPO ANR

(PER APPOGGI)

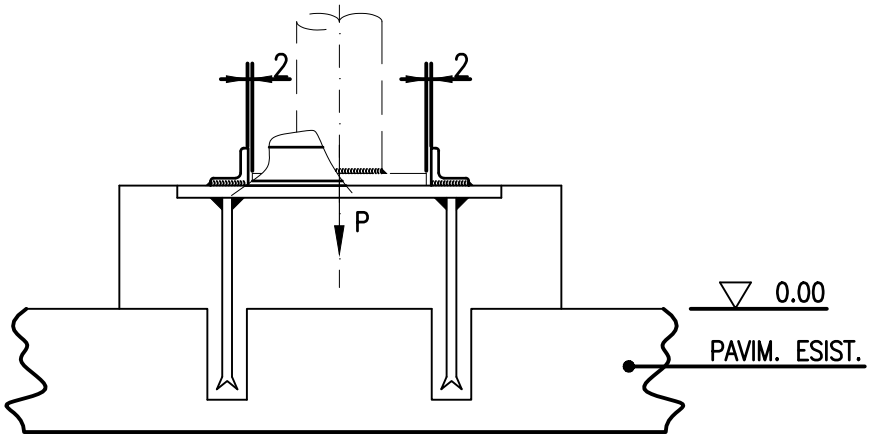
ESEMPIO DI DESIGNAZIONE:

ANR–04

TIPO



PIANTA



TIPO	LATO "M" PIASTRA SUPP.	PLINTO DI FONDAZIONE	B	L
ANR–01	150	PFA–03	300	130
ANR–02	200	PFA–04	350	180
ANR–03	240	PFA–05	390	220
ANR–04	250	PFA–05	390	230
ANR–05	260	PFA–06	420	240
ANR–06	280	PFA–06	420	260
ANR–07	300	PFA–07	470	280
ANR–08	320	PFA–07	470	300
ANR–09	350	PFA–07	470	330
ANR–10	400	PFA–08	550	380

NOTA:

1) LA PIASTRA DI FONDAZIONE COMPLETA DI ZANCHE ED IL PLINTO SARANNO FORNITI ED ESEGUITI DAI CIVILI DURANTE IL MONTAGGIO DELL'INTERO SUPPORTO

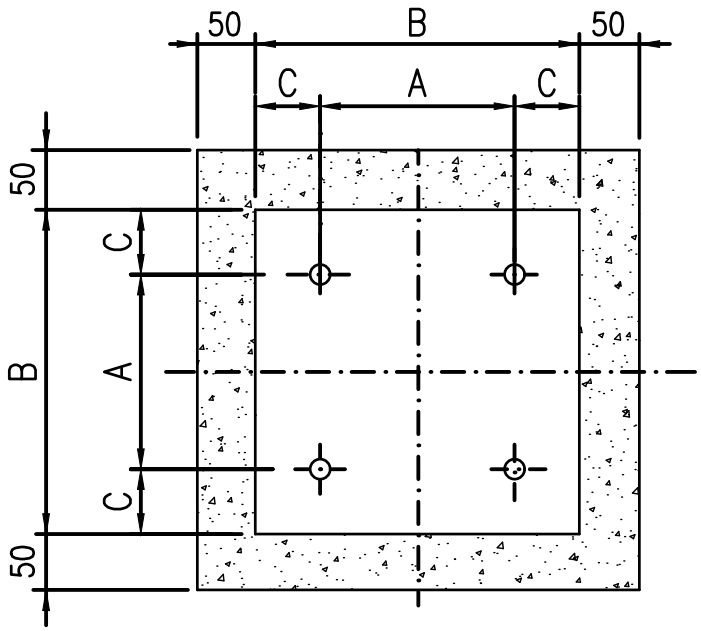
PLINTO PER APPOGGIO TIPO PFA

(PER APPOGGI)

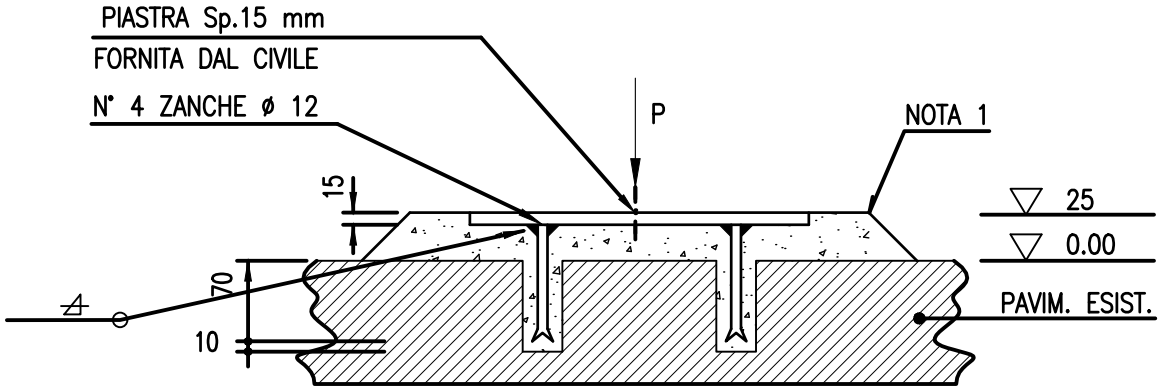
ESEMPIO DI DESIGNAZIONE:

PFA–03:

TIPO



PIANTA

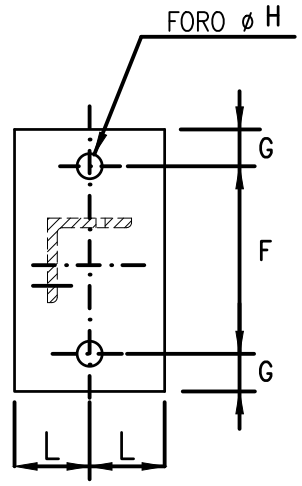


TIPO	A	B	C	PESO kg	CARICO VERT. MAX kg nota 2
PFA–01	120	200	40	8.1	1250
PFA–02	170	250	40	13.9	1500
PFA–03	220	300	40	21.3	1800
PFA–04	250	350	50	34.9	2100
PFA–05	290	390	50	44.9	2300
PFA–06	320	420	50	53.3	2550
PFA–07	370	470	50	68.8	2950
PFA–08	450	550	50	97.7	3600
PFA–09	500	600	50	117.7	4000

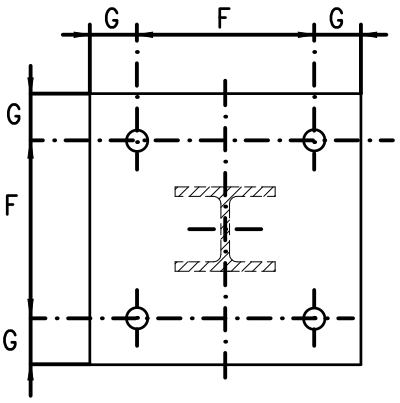
NOTA: 1) LA PIASTRA DI FONDAZIONE COMPLETA DI ZANCHE ED IL PLINTO SARANNO FORNITI ED ESEGUITI DAI CIVILI DURANTE IL MONTAGGIO DELL'INTERO SUPPORTO

2) PER CARICHI SUPERIORI, I CIVILI, DOVRANNO DIMENSIONARE IL PLINTO DI FONDAZIONE IN FUNZIONE DELLE CONDIZIONI DI CARICO.

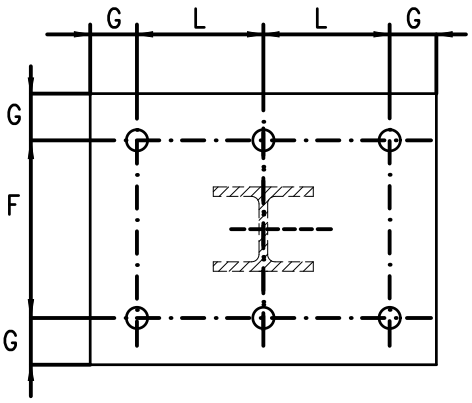
PIASTRE PER MENSOLE TIPO PTM



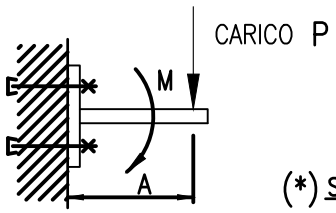
PTM–01÷PTM–02



PTM–03÷PTM–07



PTM–08÷PTM–12



(*) SCEGLIERE LA PIASTRA IN MODO TALE CHE IL MOMENTO FLETTENTE M = P x A SIA MINORE DI Mmax TABELLATO

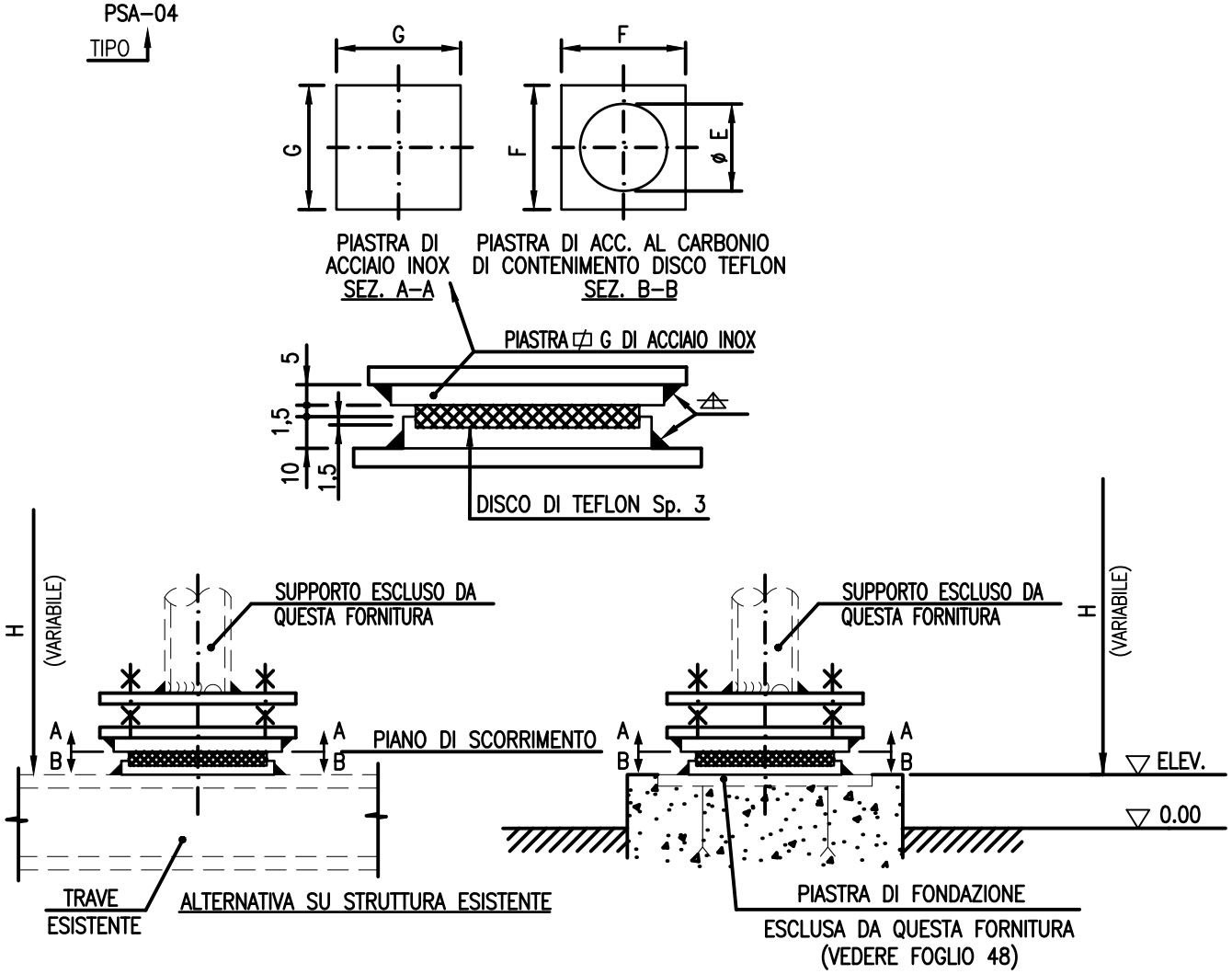
TIPO	M max. Kgm (*)	ø BULL. ESPANS.	N° BULL. ESPANS.	F	L	G	øH	DIMENSIONI PIASTRA	PESO kg
PTM–01	80	M12	2	150	50	40	16	230x100x12	2.1
PTM–02	125	M12	2	200	60	40	16	280x120x12	3.1
PTM–03	180	M12	4	150	–	40	16	230x230x12	4.8
PTM–04	200	M12	4	170	–	40	16	250x250x12	5.7
PTM–05	250	M12	4	200	–	40	16	280x280x12	7.2
PTM–06	400	M16	4	200	–	40	20	280x280x15	9
PTM–07	600	M20	4	250	–	50	24	350x350x20	18.8
PTM–08	800	M20	6	300	200	50	24	400x500x20	30.8
PTM–09	1000	M20	6	300	200	50	24	400x500x20	30.8
PTM–10	1200	M20	6	300	220	50	24	400x540x20	33.3
PTM–11	1600	M20	6	350	220	50	24	450x540x20	37.5
PTM–12	2000	M24	6	400	220	50	28	500x540x20	41.6

PIASTRA DI SCORRIMENTO TIPO PSA

(SCORRIMENTO SU TEFLON PER LINEE CALDE)

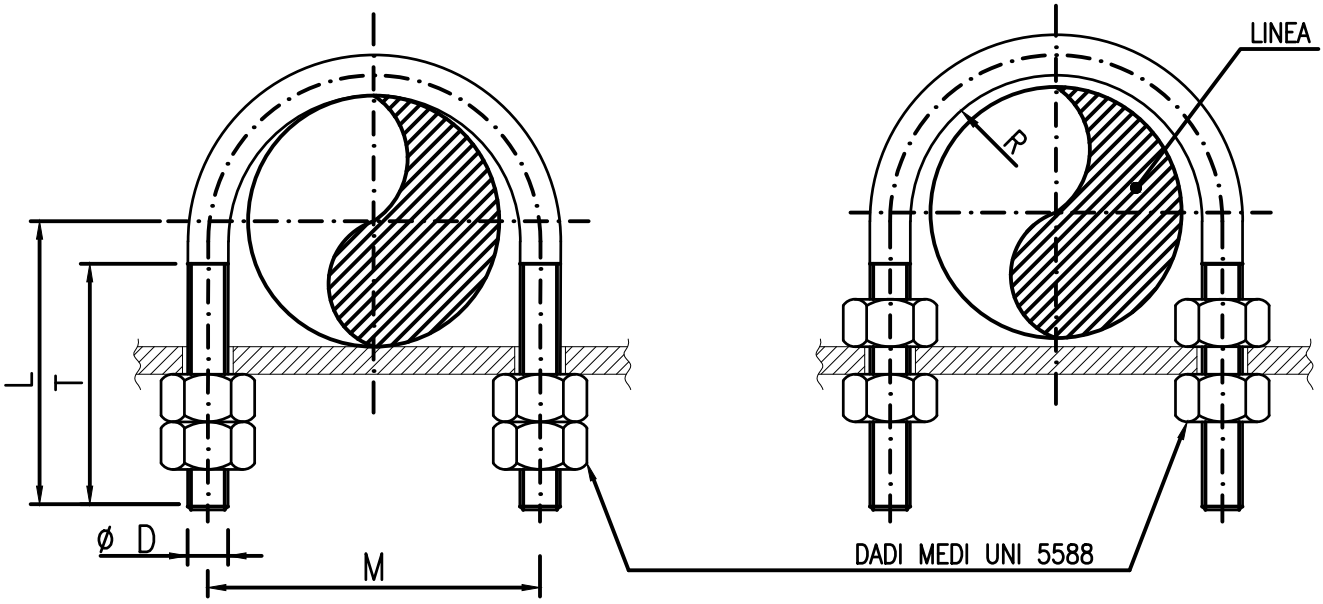
ESEMPIO DI DESIGNAZIONE:

PSA–04
TIPO



TIPO	DN	H	ø E	F	G		QUOTA DA SOTTRARRE A "H" DEL SUPPORTO STD.
PSA–01	2"	VARIABILE	100	130	185		16
PSA–02	3"		100	130	185		16
PSA–03	4"		100	130	185		16
PSA–04	6"		100	130	205		16
PSA–05	8"		100	130	230		16
PSA–06	10"		150	200	250		16
PSA–07	12"		150	200	250		16
PSA–08	14"		150	200	250		16
PSA–09	16"		150	200	280		16
PSA–10	18"		150	200	280		16
PSA–11	20"		150	200	380		16
PSA–12	24"		150	200	380		16

CAVALLOTTO TIPO CVA–CVB



MONTAGGIO TIPICO PER PUNTO FISSO

Tipo"A"

MONTAGGIO TIPICO PER GUIDA LATERALE

Tipo"B"

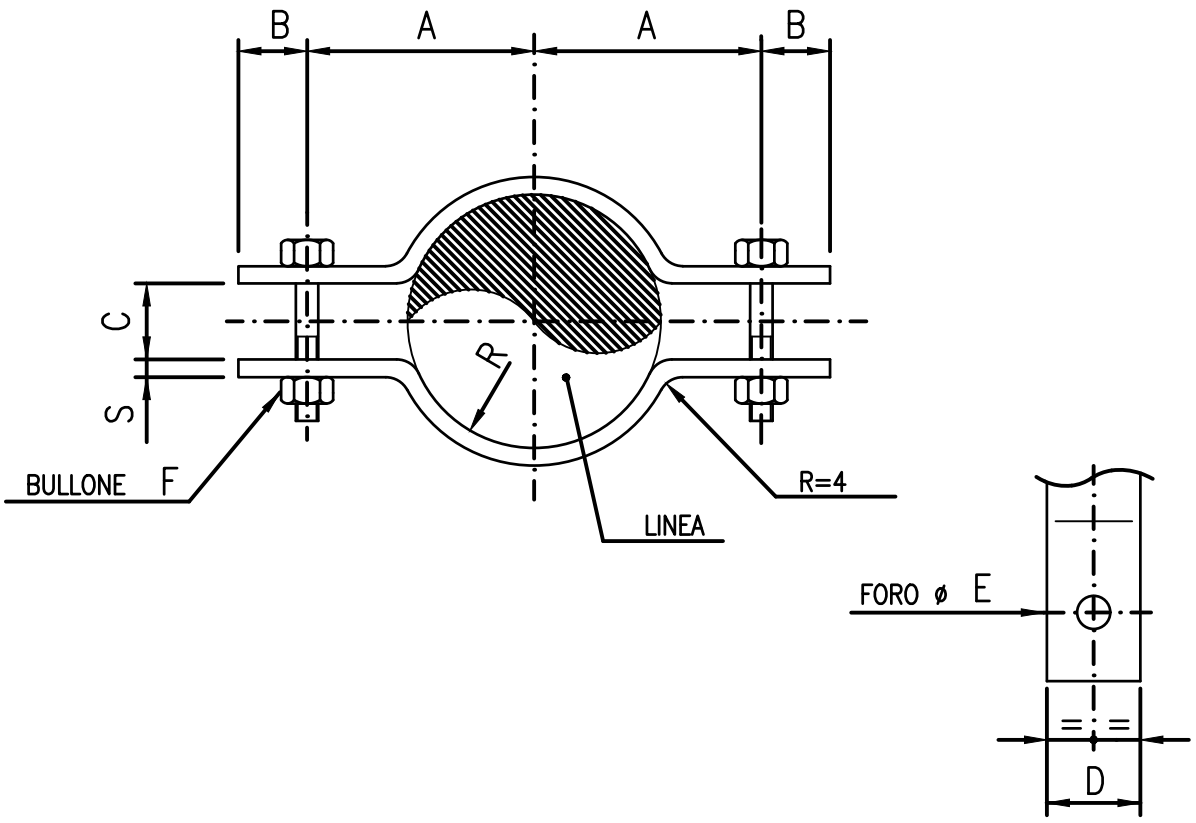
TIPO	DN	ø D	L	M	T	R	PESO kg
CV*–01	1/2"	M6	60	30	35	12	0.05
CV*–02	3/4"	M6	65	36	40	15	0.06
CV*–03	1"	M6	70	42	40	18	0.06
CV*–04	1 1/2"	M8	80	58	45	25	0.13
CV*–05	2"	M10	80	72	45	31	0.18
CV*–06	3"	M12	100	103	45	45.5	0.32
CV*–07	4"	M12	115	128	50	58	0.36
CV*–08	6"	M14	145	184	50	85	0.7
CV*–09	8"	M14	175	235	50	110.5	0.87
CV*–10	10"	M14	200	290	50	138	1.1
CV*–11	12"	M16	230	343	50	163.5	1.59
CV*–12	14"	M16	245	375	60	179.5	1.75
CV*–13	16"	M16	270	425	60	204.5	1.97
CV*–14	18"	M20	310	480	70	230	3.50
CV*–15	20"	M20	335	531	70	255.5	3.86
CV*–16	24"	M20	390	633	70	306.5	4.38

NOTE: FILETTATURA UNI 4535

*) INSERIRE LETTERA A–B IN FUNZIONE DEL TIPO

COLLARI TIPO CLA

(PER TUBI 1/2" ÷ 1 1/2")



TIPO	DN	R	COLLARE		A	B	C	FORO ø E	BULLONE F	PESO kg
			DxS	SVILUPPO						
CLA–01	1/2"	11	35x4	160	25	10	2	10	M8 x 30	0.7
CLA–02	3/4"	13	35x4	185	30	10	2	10	M8 x 30	0.8
CLA–03	1"	17	35x4	210	35	10	3	10	M8 x 30	0.9
CLA–04	1 1/2"	24	35x4	245	40	10	3	12	M10 x 35	1.0

NOTE : (1) I COLLARI SONO DIMENSIONATI PER LE SEGUENTI TEMPERATURE MASSIME:

1.1 ACCIAIO AL CARBONIO: 415°C

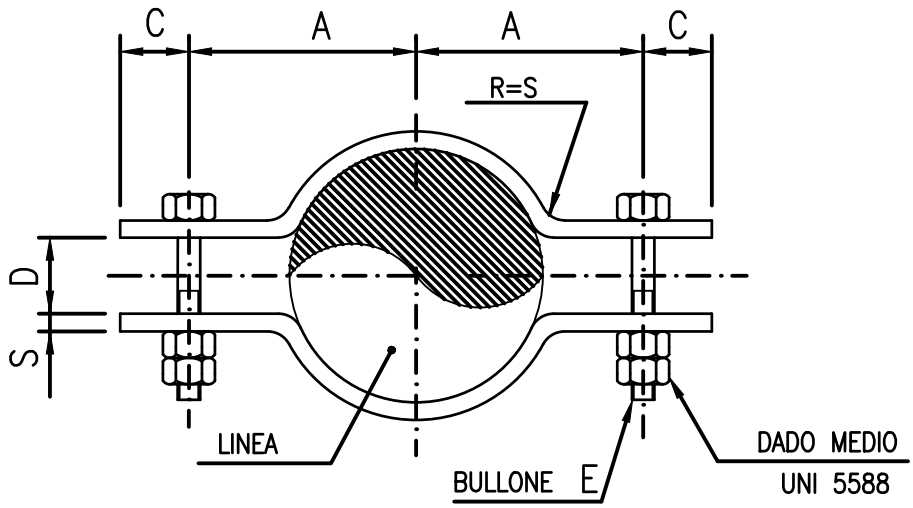
1.2 ACCIAIO LEGATO (1.25Cr–0.5Mo): 500°C

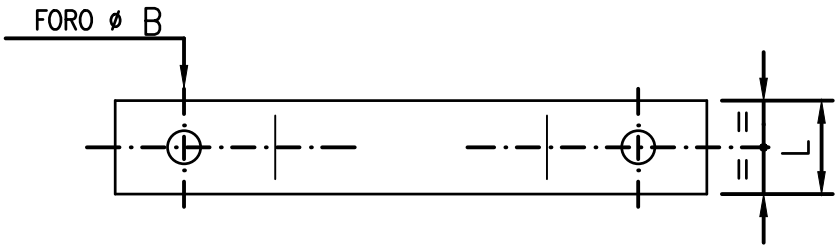
1.3 PER TEMPERATURE E/O CARICHI SUPERIORI, I COLLARI DEVONO ESSERE DIMENSIONATI CASO PER CASO

(2) BULLONI IN ACCORDO A UNI 5727

COLLARI TIPO CLA

(PER TUBI 2" ÷ 24")





TIPO	DN	A	ø B	C	D	BULLONE E	▱ LxS	PESO UNIT. kg
CLA–05	2"	60	14	15	3	M12x50	60x6	1.0
CLA–06	3"	75	14	15	3	M12x50	60x6	1.8
CLA–07	4"	95	18	20	3	M16x60	60x6	2.0
CLA–08	6"	120	18	20	3	M16x60	60x6	6.0
CLA–09	8"	145	22	30	4	M20x70	80x8	7.5
CLA–10	10"	180	22	30	4	M20x70	80x8	10
CLA–11	12"	210	26	35	4	M24x80	80x8	12
CLA–12	14"	230	26	35	4	M24x80	80x8	21
CLA–13	16"	260	26	35	5	M24x80	100x10	25
CLA–14	18"	270	26	35	5	M24x80	100x10	31
CLA–15	20"	295	26	35	5	M24x80	100x10	34
CLA–16	24"	350	26	35	5	M24x80	120x12	40

NOTE : (1) I COLLARI SONO DIMENSIONATI PER LE SEGUENTI TEMPERATURE MASSIME:

1.1 ACCIAIO AL CARBONIO: 415°C

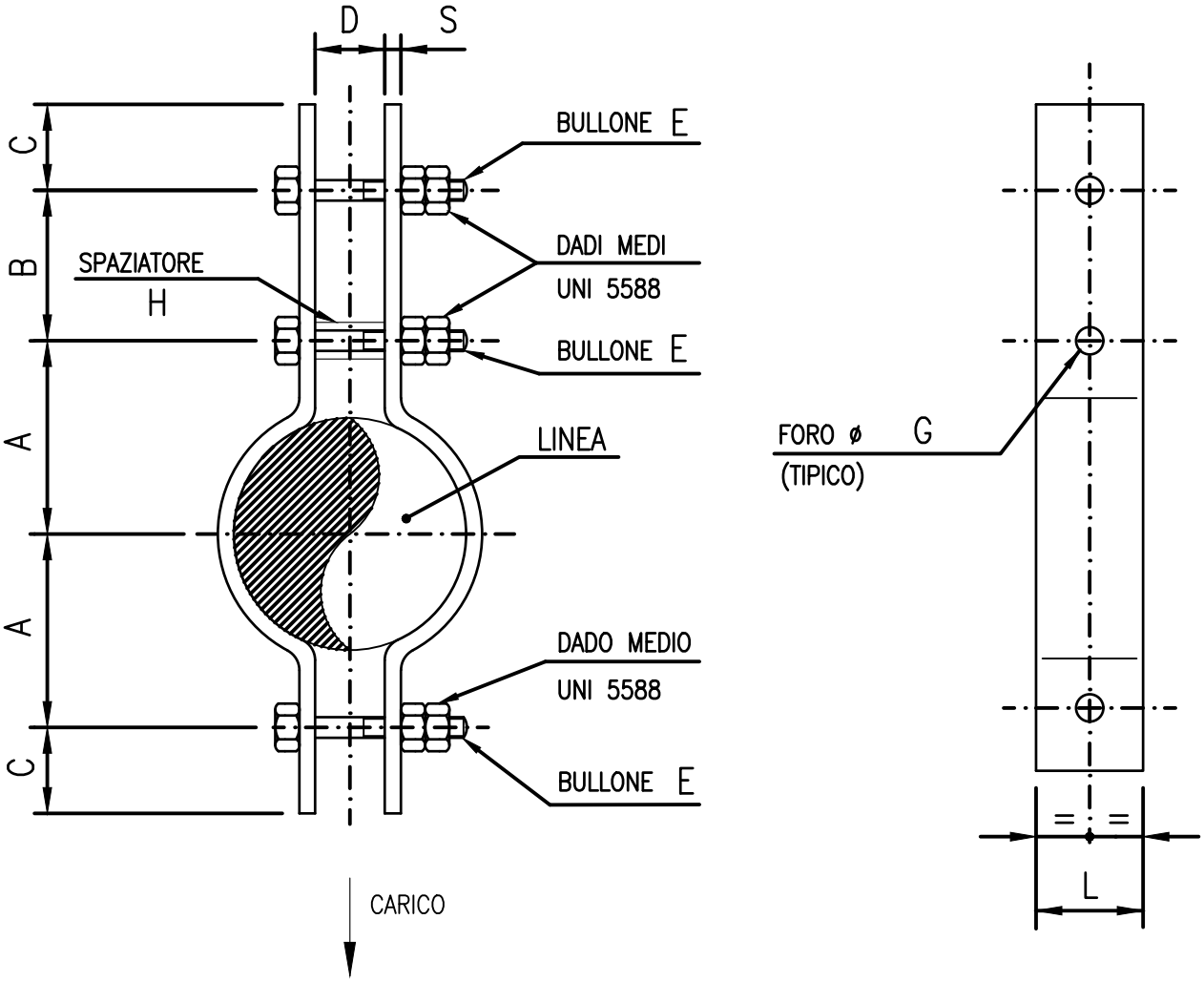
1.2 ACCIAIO LEGATO (1.25Cr–0.5Mo): 500°C

1.3 PER TEMPERATURE E/O CARICHI SUPERIORI, I COLLARI DEVONO ESSERE DIMENSIONATI CASO PER CASO

(2) BULLONI IN ACCORDO A UNI 5727

COLLARI TIPO CLB

(PER TUBI ISOLATI ≤1 1/2")



TIPO	DN	CARICO MAX kg	A	B	C	D	BULLONE E	ø G	SPAZ. H ø TUBO	LxS	PESO UNIT. kg
CLB–01	1/2"	100	30	30	15	12	M8x40	10	3/8" STD	30x5	0.3
CLB–02	3/4"	150	30	30	15	12	M8x40	10	3/8" STD	30x5	0.4
CLB–03	1"	150	35	30	15	12	M8x40	10	3/8" STD	30x5	0.5
CLB–04	1 1/2"	250	45	35	20	14	M10x45	12	3/8" STD	40x5	0.7

NOTE : (1) I COLLARI SONO DIMENSIONATI PER LE SEGUENTI TEMPERATURE MASSIME:

1.1 ACCIAIO AL CARBONIO: 415°C

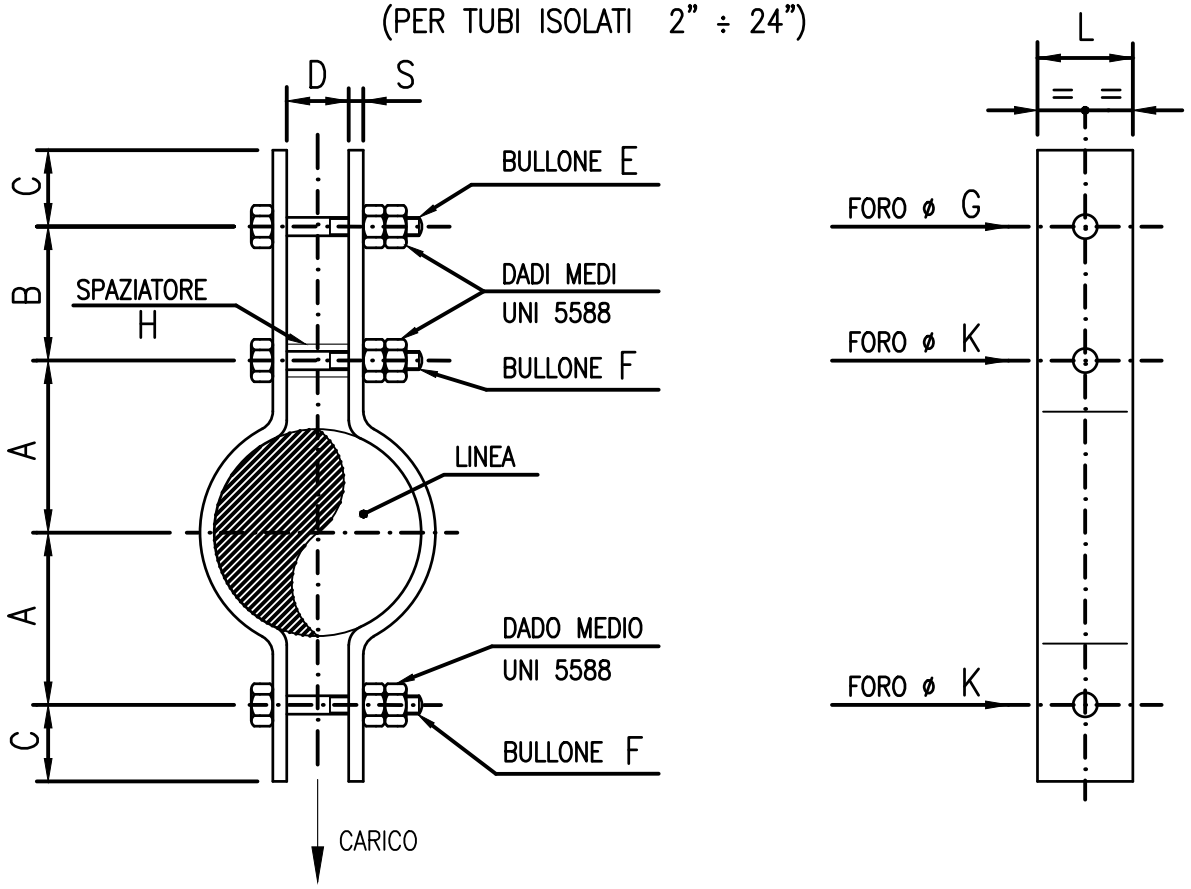
1.2 ACCIAIO LEGATO (1.25Cr–0.5Mo): 500°C

1.3 PER TEMPERATURE E/O CARICHI SUPERIORI, I COLLARI DEVONO ESSERE DIMENSIONATI CASO PER CASO

(2) BULLONI IN ACCORDO A UNI 5727

COLLARE TIPO CLB

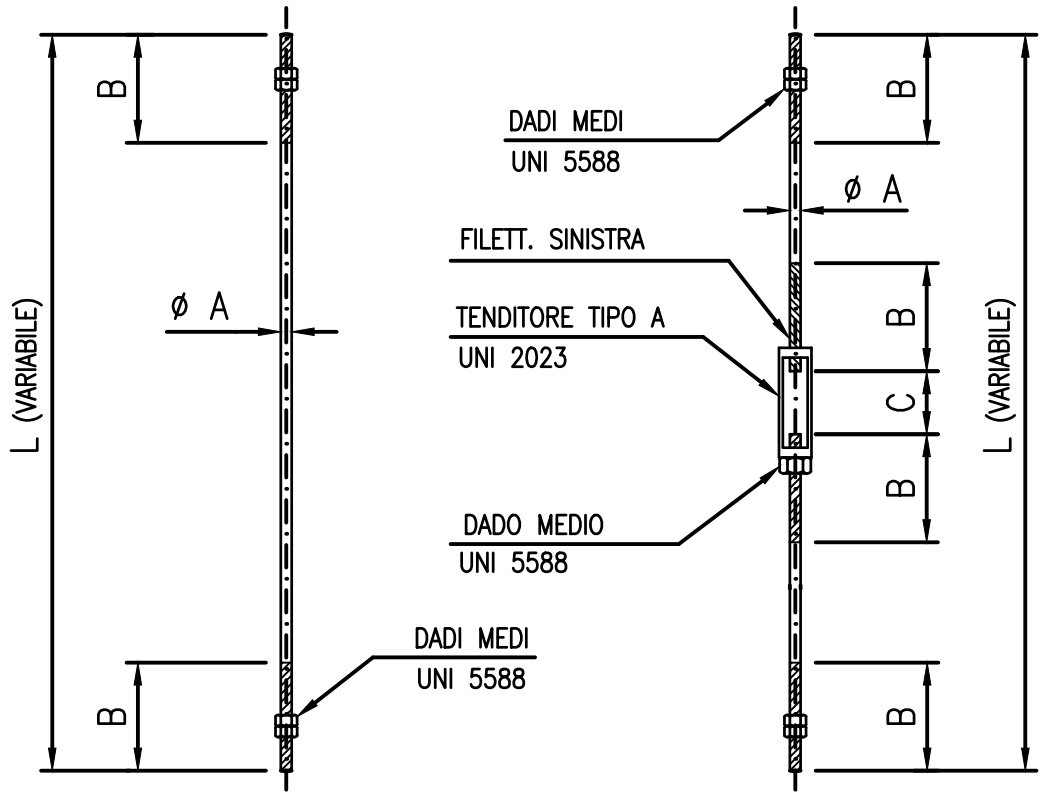
(PER TUBI ISOLATI 2" ÷ 24")



TIPO	DN	CARICO MAX kg	A	B	C	D	BULLONE E	BULLONE F	ø G	H TUBO ø	ø K	⊠ LxS	PESO kg
CLB–05	2"	375	55	50	30	25	M20x80	M14x70	23	3/4" STD	16	60x6	1.9
CLB–06	3"	750	85	60	35	25	M20x80	M14x80	23	3/4" STD	16	60x10	3.8
CLB–07	4"	1000	95	65	35	25	M20x80	M14x80	23	3/4" STD	16	60x10	4.3
CLB–08	6"	1500	130	90	40	30	M27x110	M20x90	30	3/4" STD	22	100x12	11
CLB–09	8"	2000	160	95	40	30	M27x110	M20x90	30	3/4" STD	22	100x12	13
CLB–10	10"	2500	200	95	50	35	M33x130	M24x110	36	1" STD	27	100x15	19
CLB–11	12"	3000	225	95	50	35	M33x130	M24x110	36	1" STD	27	100x15	22
CLB–12	14"	4000	245	105	60	40	M39x3x150	M30x130	42	1 1/4" STD	33	140x18	40
CLB–13	16"	5000	265	105	60	40	M39x3x150	M30x130	42	1 1/4" STD	33	140x18	43
CLB–14	18"	6000	290	105	70	40	M45x3x170	M33x140	48	1 1/4" STD	36	140x18	48
CLB–15	20"	6500	315	105	70	45	M45x3x170	M33x140	48	1 1/4" STD	36	140x18	51
CLB–16	24"	7500	380	120	70	45	M45x3x180	M33x150	48	1 1/4" STD	36	150x20	70

NOTE: (1) I COLLARI SONO DIMENSIONATI PER LE SEGUENTI TEMPERATURE MASSIME:
1.1 ACCIAIO AL CARBONIO: 415 °C
1.2 ACCIAIO LEGATO (1.25Cr–0.5Mo): 500 °C
1.3 PER TEMPERATURE E/O CARICHI SUPERIORI, I COLLARI DEVONO ESSERE DIMENSIONATI CASO PER CASO
(2) BULLONI IN ACCORDO A UNI 5727

TIRANTI FILETTATI TIPO TRA–TRB



TRA TRB

ESEMPIO DI DESIGNAZIONE:

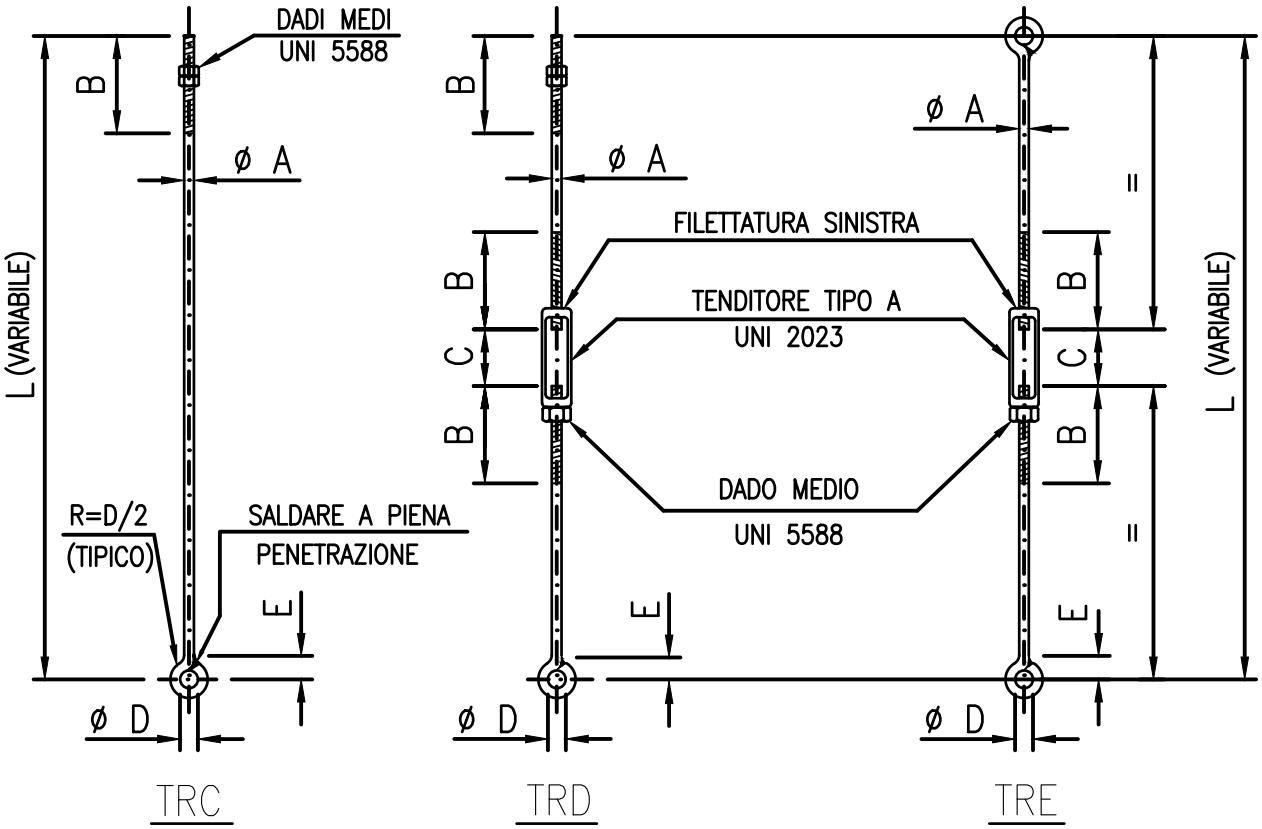
TRA–01/800

TIPO ↑ ↑ DIMENSIONE L

TIPO	TIPO	CARICO MAX kg	ø A	B	C	PESO kg/m
TRA–01	TRB–01	500	M12	120	70	0.9
TRA–02	TRB–02	1000	M16	120	75	1.6
TRA–03	TRB–03	1500	M20	130	80	2.5
TRA–04	TRB–04	2500	M24	150	85	3.6
TRA–05	TRB–05	3000	M27	150	90	4.5
TRA–06	TRB–06	4000	M30	200	95	5.6
TRA–07	TRB–07	5000	M33	200	100	6.7
TRA–08	TRB–08	6000	M36x3	250	105	8.0
TRA–09	TRB–09	6500	M39x3	250	110	9.4
TRA–10	TRB–10	7000	M42x3	300	110	11
TRA–11	TRB–11	7500	M45x3	300	120	13

NOTE: TIRANTI OTTENUTI DA TONDO E FILETTATI SECONDO UNI 4535

TIRANTI FILETTATI TIPO TRC – TRD – TRE



ESEMPIO DI DESIGNAZIONE:

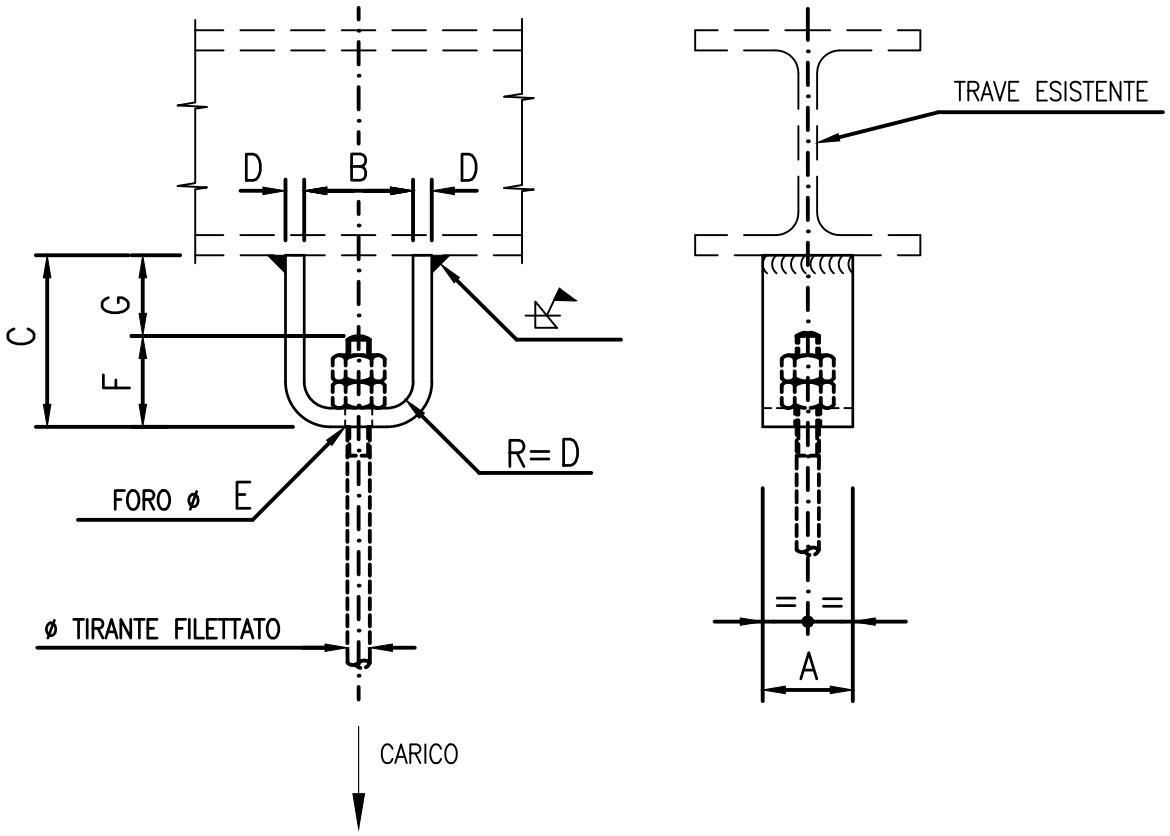
TRC–01/800

TIPO — DIMENSIONE L

TIPO	TIPO	TIPO	CARICO MAX kg	ø A	B	C	ø D	E	PESO kg/m	SVILUPPO OCCHIELLO
TRC–00	——	——	350	M10	120	–	14	25	0.7	80
TRC–01	TRD–01	TRE–01	500	M12	120	70	22	29	0.9	116
TRC–02	TRD–02	TRE–02	900	M16	120	75	26	36	1.6	143
TRC–03	TRD–03	TRE–03	1300	M20	130	80	35	45	2.5	187
TRC–04	TRD–04	TRE–04	2000	M24	150	85	45	56	3.6	234
TRC–05	TRD–05	TRE–05	3300	M30	200	95	50	67	5.6	272
TRC–06	TRD–06	TRE–06	4000	M33	200	100	54	72	6.7	298
TRC–07	TRD–07	TRE–07	4800	M36x3	250	105	58	77	8.0	319
TRC–08	TRD–08	TRE–08	6200	M42x3	300	110	64	92	11	361
TRC–09	TRD–09	TRE–09	7000	M45x3	300	120	67	97	13	385
TRC–10	TRD–10	TRE–10	8300	M48x3	350	130	70	102	15	402
TRC–11	TRD–11	TRE–11	11500	M56x4	350	150	78	116	20	456
TRC–12	TRD–12	TRE–12	15000	M64x4	400	180	86	130	25	511

NOTE: TIRANTI OTTENUTI DA TONDO E FILETTATI SECONDO UNI 4535

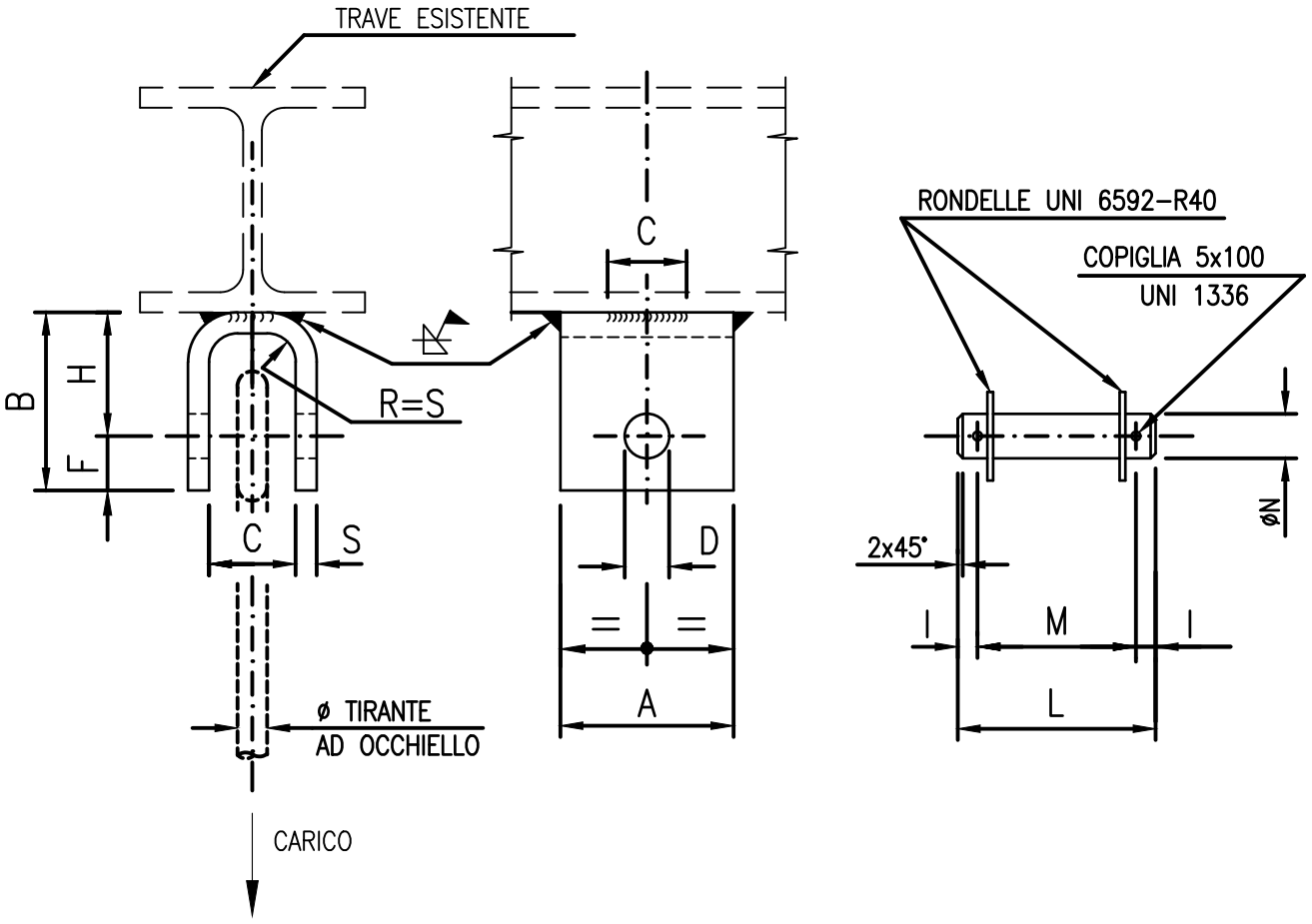
COMPONENTE TIPO HCA



TIPO	ø TIRANTE	CARICO MAX kg	A	B	C	D	ø E	F	G		PESO kg
HCA–00	M10	350	50	45	100	5	14	60	40		0.3
HCA–01	M12	500	40	45	100	10	14	60	40		0.7
HCA–02	M16	1000	50	65	115	15	18	75	40		1.5
HCA–03	M20	1500	60	75	120	15	22	80	40		2.2
HCA–04	M24	2500	70	85	140	20	28	90	50		4.1
HCA–05	M27	3000	100	100	140	22	31	90	50		6
HCA–06	M30	4000	100	100	140	22	34	90	50		6
HCA–07	M33	5000	120	120	150	25	38	100	50		9
HCA–08	M36x3	6000	120	120	150	25	41	100	50		9
HCA–09	M39x3	6500	130	140	160	30	44	110	50		13

COMPONENTE TIPO HCB

(DA ACCOPPIARE SOLO CON TIRANTI AD OCCHIELLO)

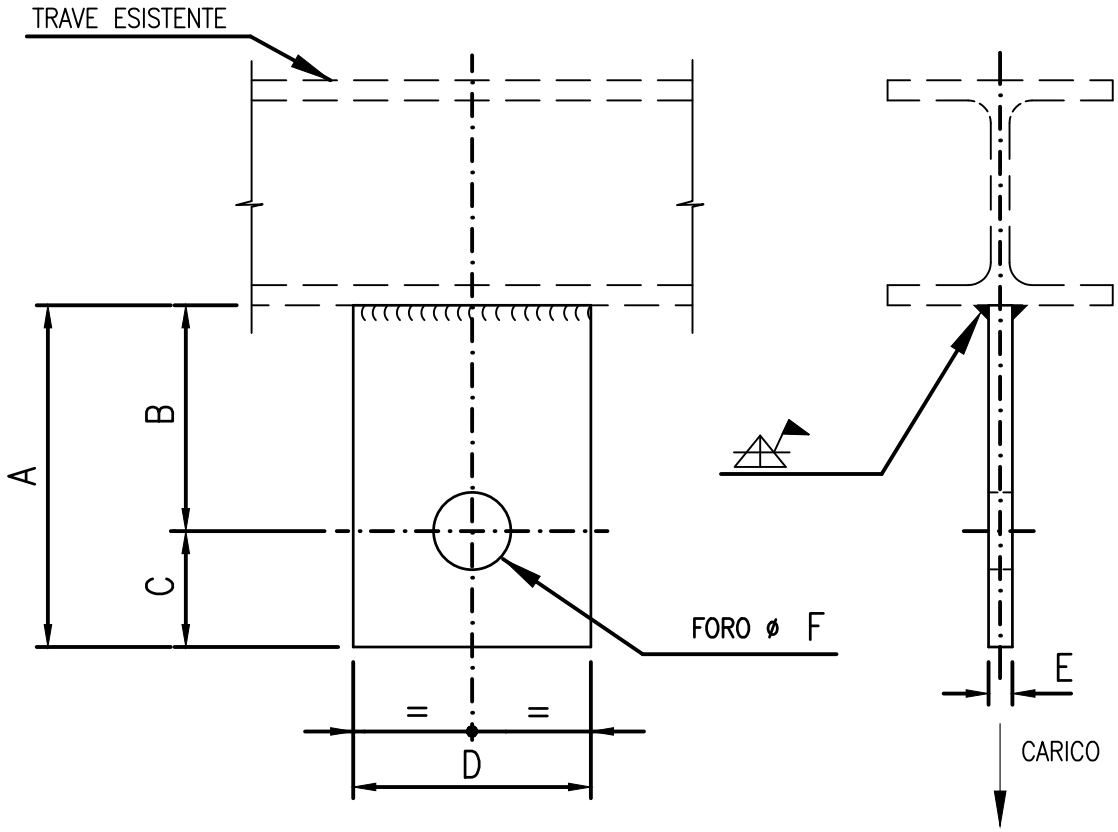


TIPO	ø TIRANTE	CARICO MAX kg	DIMENSIONI							DIMENSIONI PERNO				RONDELLA		PESO TOT. kg
			A	B	C	D	F	H	S	ø N	I	M	L	ø INT.	ø EST.	
HCB–01	12	500	70	72	32	18	22	50	10	16	8	64	80	17	30	1.0
HCB–02	16	950	70	75	32	22	25	50	10	20	8	68	84	21	37	1.1
HCB–03	20	1300	80	80	40	27	30	50	10	24	10	78	98	25	44	1.3
HCB–04	24	2000	100	115	50	33	40	75	12	30	10	92	112	31	56	3.1
HCB–05	30	3300	120	125	60	39	50	75	15	36	12	114	138	37	66	5.5
HCB–06	36	4800	130	160	75	45	60	100	20	48	12	146	170	43	78	10
HCB–07	42	6200	150	195	95	52	70	125	20	48	13	164	190	50	92	14
HCB–08	48	8300	150	210	95	60	85	125	20	56	15	170	200	58	105	17
HCB–09	56	11500	180	240	110	68	90	150	20	64	17	186	220	66	115	23
HCB–10	64	15000	200	245	115	76	95	150	25	72	17	206	240	74	125	33

NOTE: 1) OGNI COMPONENTE DEVE ESSERE COMPRENSIVO DI PERNO, RONDELLE, COPIGLIE E PREASSEMBLATO.

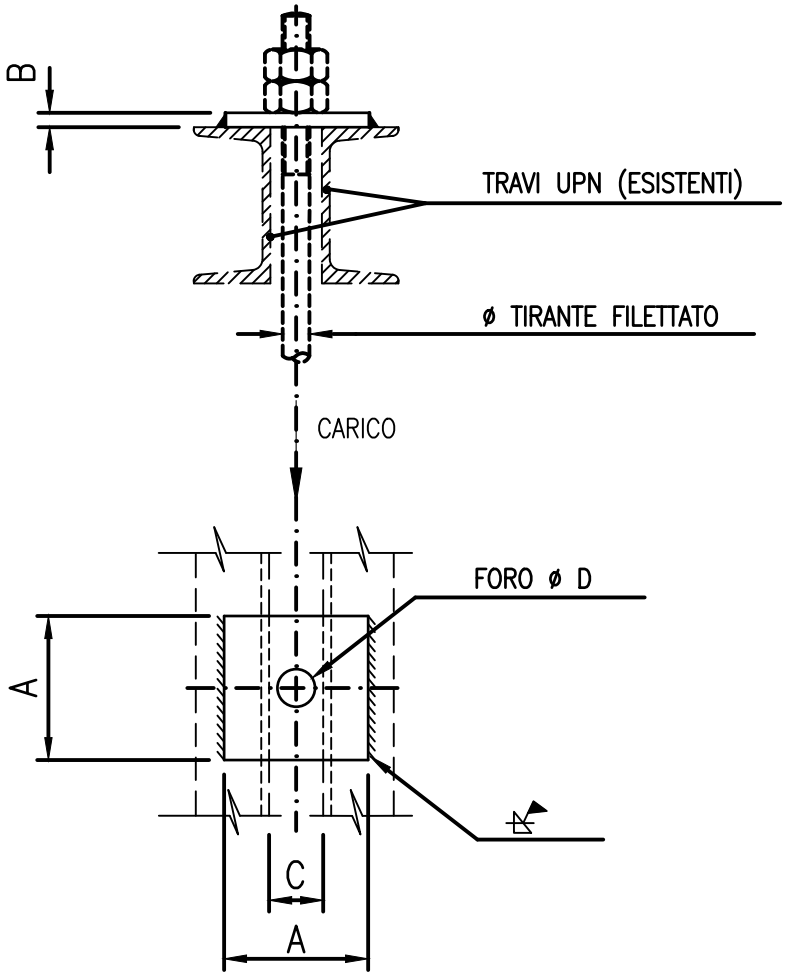
COMPONENTE TIPO HCC

(DA ACCOPPIARE SOLO CON FORCELLE TIPO "FCL")



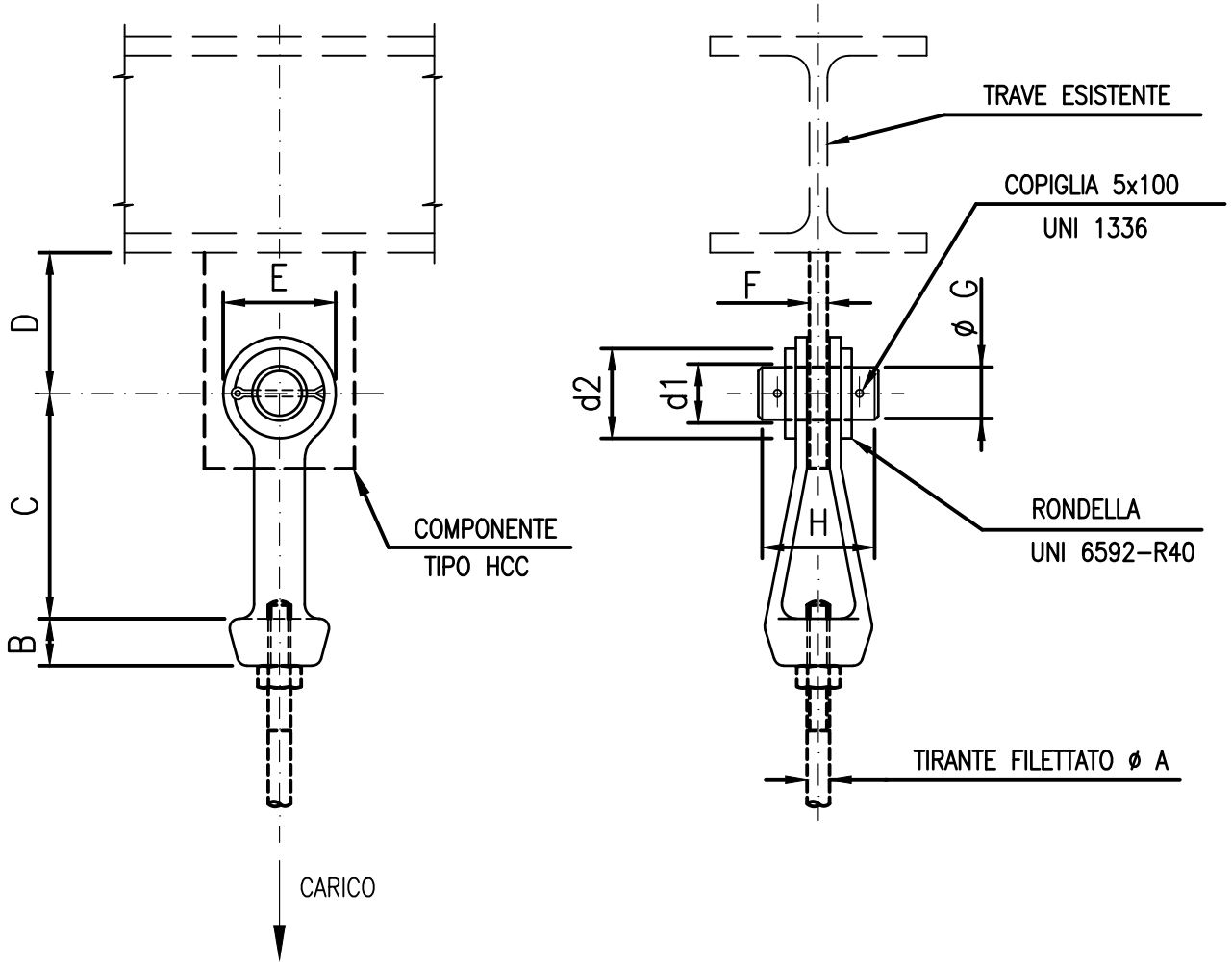
TIPO	CARICO MAX kg	A	B	C	D	E	ø F		PESO kg
HCC–01	500	115	75	40	80	8	27		0.6
HCC–02	750	115	75	40	80	8	27		0.6
HCC–03	1000	115	75	40	80	8	27		0.6
HCC–04	1250	115	75	40	80	8	27		0.6
HCC–05	1500	115	75	40	80	8	27		0.6
HCC–06	2000	125	75	50	100	10	31		0.9
HCC–07	2500	125	75	50	100	10	31		0.9
HCC–08	3000	125	75	50	100	10	31		0.9
HCC–09	4000	140	80	60	120	15	41		1.9
HCC–10	5000	140	80	60	120	15	41		1.9
HCC–11	6000	140	80	60	120	15	41		1.9
HCC–12	6500	160	85	75	150	20	51		3.7
HCC–13	7000	160	85	75	150	20	51		3.7
HCC–14	7500	160	85	75	150	20	51		3.7

COMPONENTE TIPO HCD



TIPO	ø TIRANTE	CARICO MAX kg	A	B	C	ø D		PESO kg
HCD–00	M10		80	8	30	12		0.2
HCD–01	M12	500	80	8	30	14		0.4
HCD–02	M16	1000	80	8	30	18		0.4
HCD–03	M20	1500	100	10	50	22		0.8
HCD–04	M24	2500	120	12	60	27		1.4
HCD–05	M27	3000	120	12	60	30		1.4
HCD–06	M30	4000	140	15	70	33		2.3
HCD–07	M33	5000	140	15	70	36		2.3
HCD–08	M36x3	6000	150	20	80	39		3.5
HCD–09	M39x3	6500	150	20	80	42		3.5
HCD–10	M42x3	7000	160	25	100	45		5.0
HCD–11	M45x3	7500	160	25	100	48		5.0

COMPONENTE TIPO FCL
(ATTACCO A FORCELLA)

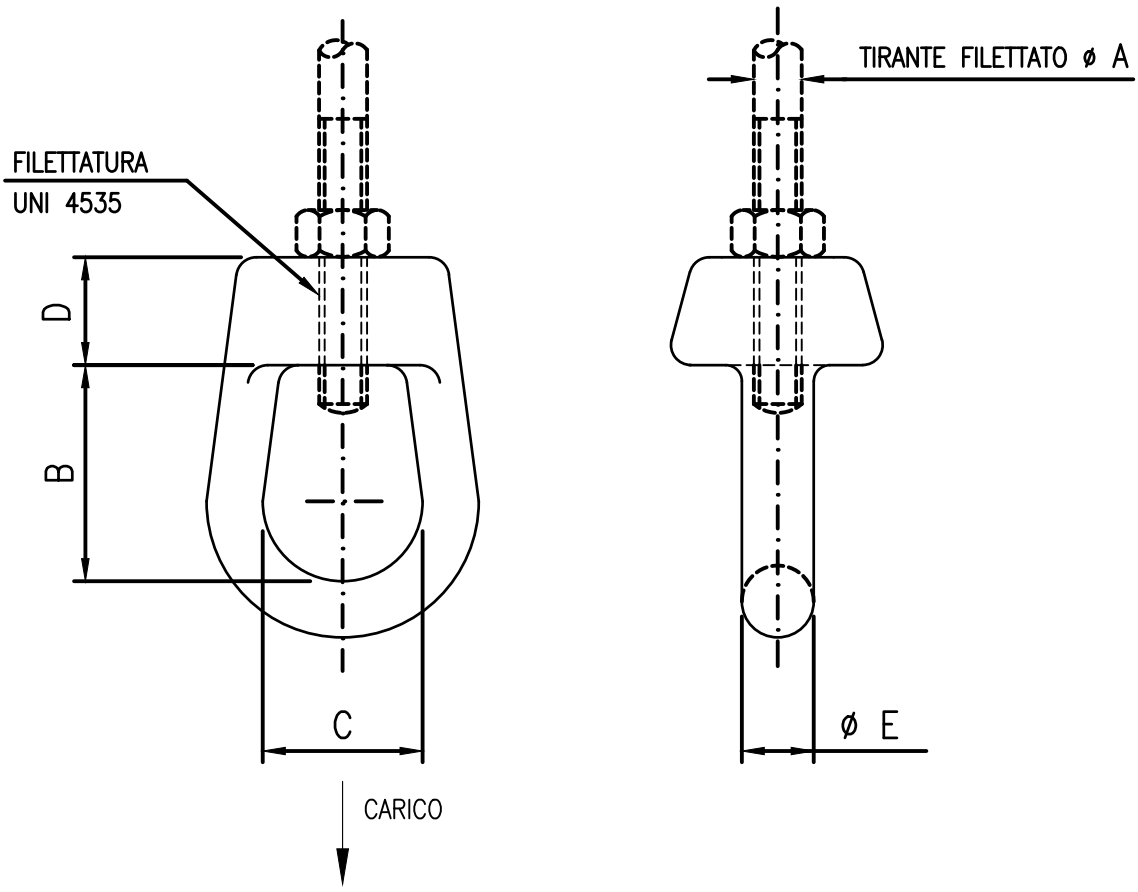


TIPO	FILETT. ø A	CARICO MAX kg	B	C	D	E	F	PERNO		RONDELLA d1xd2	PESO kg
								øG	H		
FCL–01	M12	500	25	120	75	60	12	26	60	28x50	1.0
FCL–02	M16	1000	25	120	75	60	12	26	60	28x50	1.0
FCL–03	M20	1500	25	120	75	60	12	26	60	28x50	1.0
FCL–04	M24	2500	35	120	75	75	15	30	75	31x56	2.0
FCL–05	M27	3000	35	120	75	75	15	30	75	31x56	2.0
FCL–06	M30	4000	45	150	80	90	20	40	85	43x78	4.0
FCL–07	M33	5000	45	150	80	90	20	40	85	43x78	4.0
FCL–08	M36x3	6000	45	150	80	90	20	40	85	43x78	4.0
FCL–09	M39x3	6500	50	150	85	105	25	50	95	54x98	5.8
FCL–10	M42x3	7000	50	150	85	105	25	50	95	54x98	5.8
FCL–11	M45x3	7500	50	150	85	105	25	50	95	54x98	5.8

NOTE:

1) OGNI COMPONENTE DEVE ESSERE COMPRENSIVO DI PERNO, RONDELLE, COPIGLIE E PREASSEMBLATO.

GOLFARE TIPO GLF



TIPO	TIRANTE ø A	CARICO MAX kg	B	C	D	ø E	PESO kg
GLF–01	M12	500	63	40	27	18	0.7
GLF–02	M16	1000	75	50	30	22	1.3
GLF–03	M20	1500	75	50	30	22	1.3
GLF–04	M24	2500	95	64	40	28	2.6
GLF–05	M27	3000	95	64	40	28	2.6
GLF–06	M30	4000	110	72	50	34	4.5
GLF–07	M33	5000	110	72	50	34	4.5
GLF–08	M36x3	6000	110	72	50	34	4.5
GLF–09	M39x3	6500	170	85	60	42	6.3
GLF–10	M42x3	7000	170	85	60	42	6.3
GLF–11	M45x3	7500	170	85	60	42	6.3