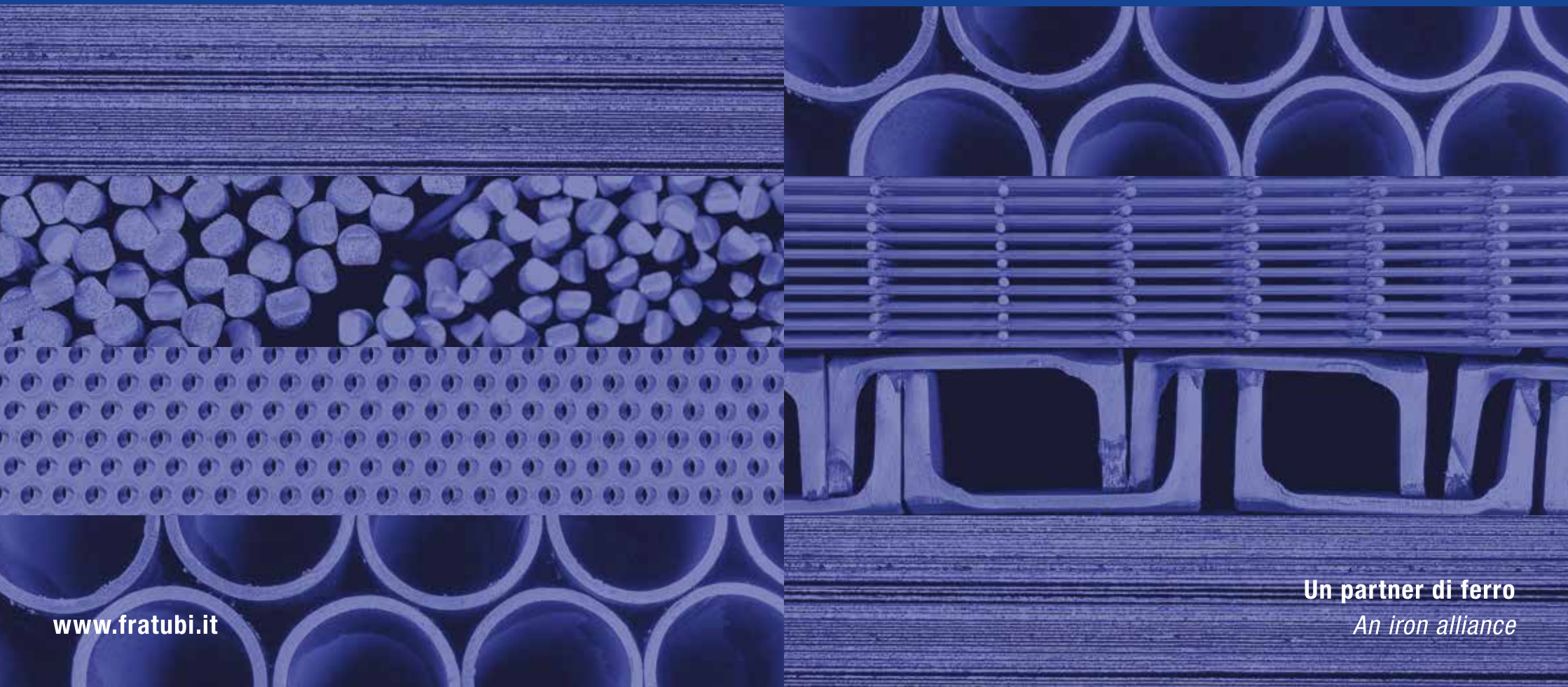


Un partner di ferro
An iron alliance



PRONTUARIO TECNICO
TECHNICAL HANDBOOK



www.fratubi.it

Un partner di ferro
An iron alliance

Prontuario tecnico

Gamma prodotti

Technical handbook

Product line

Indice

Table of content

5	Condizioni di fornitura Corrispondenze indicative qualità acciai	<i>Delivery terms</i> <i>Indicative correspondence</i> <i>of steel's quality</i>
13	Laminati mercantili UNP UNS Travi	<i>Merchant bars</i> <i>UNP</i> <i>UNS</i> <i>Beams</i>
37	Tubi e tubolari da nastro laminato a freddo	<i>Cold rolled pipes</i>
43	Tubi e tubolari da nastro laminato a caldo, neri e decapati Tubi carpenteria zincati a caldo antirrotazione	<i>Hot rolled, black, pickled pipes</i> <i>Anti-rotation,</i> <i>hot dip galvanized pipes</i>
55	Tubi meccanici Tubi gas, antincendio e rivestiti Tubi petrolchimici	<i>Mechanical pipes</i> <i>Gas pipes, fireproof pipes and</i> <i>coated pipes</i> <i>Petrochemical pipes</i>
65	Profili aperti	<i>Steel sections</i>
69	Lamiere nere, decapate, a freddo e zincate Lamiere da treno Lamiere bugnate Lamiere ondulate, stirate e grecate Rete tessuta ed elettrosaldata Grigliati	<i>Black, pickled, cold rolled,</i> <i>galvanized sheet metal</i> <i>Heavy plates</i> <i>Embossed sheet metal</i> <i>Wavy, expanded,</i> <i>corrugated sheet metal</i> <i>Woven mesh and electro-welded mesh</i> <i>Gratings</i>
79	L'azienda	<i>The company</i>



**Condizioni
di fornitura**

Delivery terms

**Corrispondenze
indicative
qualità acciai**

*Indicative correspondence
of steel's quality*

Condizioni di fornitura

Delivery terms

Pesi

È ammessa una tolleranza del 3% in più o in meno sul peso spedito. Il compratore potrà avanzare i propri reclami, che riguardano esclusivamente ammanchi di peso eccedenti la tolleranza del 3%, solo nel caso che tale ammanco sia comprovato da pesa pubblica.

Tolleranze dimensionali

Si fa riferimento a quanto contemplato dalle vigenti norme UNI - UNI EN per tipologia di materiale.

Reclami

Le eventuali contestazioni dovranno essere notificate al fornitore entro 8 giorni dalla consegna dei materiali. In caso di difetti di materiale o di lavorazione, realmente esistenti e riconosciuti dal fornitore, incomberà a questo l'obbligo della semplice sostituzione. I materiali oggetto di reclamo dovranno essere tenuti a disposizione del fornitore nello stato in cui furono consegnati e potranno essere sostituiti solo se non avranno subito manomissioni o lavorazione. È comunque escluso qualsiasi diritto da parte del compratore per danni e/o rimborsi a qualunque titolo sostenuti.

Ritardo di pagamento

In caso di ritardato pagamento verranno applicati gli interessi di mora nella misura prevista dal Decreto Legislativo n. 231/02 in attuazione Direttiva 2000/35/Ce.

Weight

A manufacturing tolerance of ±3% shall be allowed with regard to the weight of supplied goods. The buyer can lodge a complaint, which must exclusively concern deficiencies of weight in excess of the aforesaid tolerance, only if those deficiencies are proven by means of public weighbridge.

Dimensional tolerances

Reference is made as provided in accordance with UNI - UNI EN norms, by typology of good.

Complaints

Any complaints must be notified to the supplier within 8 days from delivery of materials. In the event of a defect in materials or workmanship, actually existing and recognized by the supplier, it will lay on the supplier the obligation of substitution. Claimed goods must be made available to the supplier in the state in which they were delivered and can only be replaced if they have not been tampered with or processed. It is, however, excluded any right on the part of the buyer for damages and/or refunds to any reason whatsoever.

Late payment

In case of late payment, default interest will be charged to the extent provided by Legislative Decree no. 231/02 implementing Directive 2000/35/EC.

Corrispondenze indicative qualità acciai

Indicative correspondence of steel's quality

designazione Secondo EN 10027-1 ed ECISS IC 10	Precedenti designazioni nazionali corrispondenti (estratto da UNI EN 10025:1995)										
	Secondo EN 10025 :1990	Germania	Francia	Regno Unito	Spagna	Italia	Belgio	Svezia	Portogallo	Austria	Norvegia
S185	Fe 310-0	St 33	A 33		A 310-0	Fe 320	A 320	13 00-00	Fe 310-0	St 320	
S235JR	Fe 360 B	St 37-2	E 24-2		Fe 360 B	Fe 360 B	AE 235-B	13 11-00	Fe 360-B		NS 12 120
S235JRG1	Fe 360 BFN	St 37-2			AE 235 B-FU					UST 360 B	NS 12 122
S235JRG2	Fe 360 BFN	Rt 37-2		40	AE 235 B-FN			13 12-00		RSt 360 B	NS 12 123
S235JO	Fe 360 C	St 37-3 U	E 24-3	40 C	AE 235 C	Fe 360 C	AE 235-C		Fe 360-C	St 360 C	NS 12 124
S235J2G3	Fe 360 D1	St 37-3 N	E 24-4	40 D	AE 235 D	Fe 360 D	AE 235-D		Fe 360-D	St 360 D	NS 12 124
S235J2G4	Fe 360 D2										
S275JR	Fe 430 B	St 44-2	E 28-2	43 B	AE 275 B	Fe 430 B	AE 255-B	14 12-00	Fe 430-B	St 430 B	NS 12 142
S275JO	Fe 430 C	St 44-3U	E 28-3	43 C	AE 275 C	Fe 430 C	AE 255-C		Fe 430-C	St 430 C	NS 12 143
S275J2G3	Fe 430 D1	St 44-3 N	E 28-4	43 D	AE 275 D	Fe 430 D	AE 255-D	14 14-00	Fe 430-D	St 430 D	NS 12 143
S275J2G4	Fe 430 D2							14 14-01			
S355JR	Fe 510 B		E 36-2	50 B	AE 355 B	Fe 510 B	AE 355-B		Fe 510-B		
S355JO	Fe 510 C	St 52-3 U	E 36-3	50 C	AE 355 C	Fe 510 C	AE 355-C		Fe 510-C	St 510 C	NS 12 153
S355J2G3	Fe 510 D1	St 52-3 N		50 D	AE 355 D	Fe 510 D	AE 355-D		Fe 510-D	St 510 D	NS 12 153
S355J2G4	Fe 510 D2										
S355K2G3	Fe 510 DD1		E 36-4	50 DD			AE 355-DD		Fe 510-D		
S355K2G4	Fe 510 DD2										
E295	Fe 490-2	St 50-2	A 50-2		A 490	Fe 490	A 490-2	15 50-00 15 50-01	Fe 490-2	St 490	
E335	Fe 590-2	St 60-2	A 60-2		A 590	Fe 590	A 590-2	16 50-00 16 50-01	Fe 590-2	St 590	
E360	Fe 690-2	St 70-2	A 70-2		A 690	Fe 690	A 690-2	16 55-00 16 55-01	Fe 690-2	St 690	

Corrispondenze indicative qualità acciai

Indicative correspondence of steel's quality

Elenco delle precedenti designazioni nazionali corrispondenti (es tratto da UNI EN 10149-2:1997)									
Designazione del tipo di acciaio		Precedenti designazioni equivalenti							
alfanumerica	numerica	EU 149-2 1980	Germania SEW 092	Francia	Regno unito	Svezia	Italia		
		Fe E 275-TM	QStE 260 TM	1.0970	E 275 D	40F30		Fe E 275-TM	
S315MC	1.0972	QStE 300 TM	1.0972	E 315 D	43F35				
S355MC	1.0976	QStE 360 TM	1.0976	E 355 D (E 390 D)	46F40	26 42-00	Fe E 355-TM		
S420MC	1.0980	QStE 420 TM	1.0980	E 420 D	(50F45)	26 52-00	Fe E 420-TM		
S460MC	1.0982	QStE 460 TM	1.0982						
S500MC	1.0984	QStE 500 TM	1.0984	E 490 D			Fe E 490-TM		
S550MC	1.0986	(Fe E 560-TM)	1.0986	(E 560 D)	60F55	26 62-00	(Fe E 560-TM)		
S600MC	1.8969	QStE 600 TM	1.0988	E 620 D	68F62				
S650MC	1.8976	QStE 650 TM	1.0989						
S700MC	1.8974	QStE 690 TM	1.0966	(E 690 D)	75F70				

(estratto da UNI EN 10111:2000)

Designazione		precedenti corrispondenti designazioni						
Secondo la EN 10027-1 E CR 10260	Secondo la EN 10027-2	Germania DIN 1614	Francia NFA 36-301	Regno Unito BS 1449	Spagna UNE 36.086	Italia UNI 5867		
DD11	1.0332	S1W22	1C	HR3	AP11	FeP11		
DD12	1.0398	RRS1W23						
DD13	1.0335	S1W24	3C	HR1	AP13	FeP13		
DD14	1.0389		3CT					

Corrispondenze indicative qualità acciai

Indicative correspondence of steel's quality

Composizione chimica all'analisi sul prodotto										
designazione	tipo di dissidazione	sottogruppo	c max sp. <= 40 mm	Si max.	Mn max.	P max	S max	N max		
Secondo EN 10027.1 CR 10260	Secondo EN10027.2									
S235JRH	1.0039	QS	0,17	-	1,40	0,045	0,045	0,009		
S275JRH	1.0149	QS	0,20	-	1,50	0,040	0,040	0,009		
S275J2H	1.0138	QS	0,20	-	1,50	0,035	0,035	-		
S355JRH	1.0547	QS	0,22	0,55	1,60	0,040	0,040	0,009		
S355J2H	1.0576	QS	0,22	0,55	1,60	0,035	0,035	-		

Caratteristiche meccaniche per prodotti in acciaio da costruzione

designazione	Carico di snervamento minimo N/mm ² <=16	Resistenza a trazione		allungamento	Resilienza		
		N/mm ² sp.nom.in mm	N/mm ² sp.nom.in mm		°C	J	
Secondo EN10027.1 CR 10260	Secondo EN10027.2	<3	=3<=40				
S235JRH	1.0039	360÷510	340÷470	24	20	27	
S275JRH	1.0149	430÷580	410÷560	20	0	27	
S275J2H	1.0138				-20	27	
S355JRH	1.0547	510÷680	490÷630	20	0	27	
S355J2H	1.0576				-20	27	

Certificati di collaudo

Redatti sulla base di prove eseguite dall'azienda e specificate nella UNI EN 10204

2. Documenti di controllo redatti sulla base di controlli e prove eseguiti da personale autorizzato dal produttore e che può far parte dei servizi di produzione

2.1. Attestato di conformità all'ordinazione "2.1". Documento in cui il produttore attesta che i prodotti forniti sono conformi a quanto concordato all'ordinazione, senza indicare alcun risultato di prova. L'attestato di conformità all'ordinazione "2.1" e un documento redatto sulla base di controlli non specifici.

2.2. Attestato di controllo "2.2". Documento in cui il produttore attesta che i prodotti forniti sono conformi a quanto concordato all'ordinazione e in cui fornisce risultati di prova sulla base di controlli non specifici.

2.3. Attestato di controllo specifico "2.3". Documento in cui il produttore attesta che i prodotti forniti sono conformi a quanto concordato all'ordinazione e in cui fornisce risultati di prova sulla base di controlli specifici. L'attestato di controllo specifico "2.3" viene utilizzato esclusivamente dai produttori che non dispongono di un servizio di controllo autorizzato gerarchicamente indipendente dai servizi di produzione. Se il produttore dispone di un servizio di controllo autorizzato gerarchicamente indipendente dai servizi di produzione, egli deve fornire un certificato 3.1.B al posto di un certificato 2.3.

3. Documenti di controllo redatti sulla base di controlli e prove eseguiti o coordinati da personale autorizzato gerarchicamente indipendente dai servizi di produzione e basati su controlli specifici

3.1. Certificato di collaudo. Documento rilasciato sulla base di controlli e prove eseguiti in conformità con le prescrizioni tecniche dell'ordinazione o con i regolamenti ufficiali e le regole tecniche corrispondenti. Le prove devono essere effettuate sui prodotti forniti o sui prodotti dell'unità di collaudo di cui la fornitura costituisce una parte. L'unità di collaudo è fissata dalla norma di prodotto, dai regolamenti ufficiali e dalle regole tecniche corrispondenti, o viene specificata all'ordinazione. Secondo il caso si distinguono i certificati di collaudo seguenti:

- **Certificato di collaudo "3.1.A".** Viene rilasciato e convalidato da un ispettore designato dai regolamenti ufficiali in conformità con gli stessi e con le regole tecniche corrispondenti.
- **Certificato di collaudo "3.1.B".** Viene rilasciato dal servizio indipendente dai servizi di produzione e convalidato da un rappresentante autorizzato del personale gerarchicamente indipendente dai servizi di produzione.
- **Certificato di collaudo "3.1.C".** Viene rilasciato e convalidato da un rappresentante qualificato dell'acquirente, in conformità con quanto prescritto nell'ordinazione.

3.2. Verbale di collaudo. Quando il certificato di collaudo è convalidato, sulla base di accordi particolari, sia dal rappresentante autorizzato del produttore che dal rappresentante autorizzato dell'acquirente, esso assume il nome di verbale di collaudo "3.2".

Test certificates

Drawn up on the basis of tests carried out by the company and specified in EN 10204

2. Control document drawn up on the basis of controls and test performed by the personnel authorized by the producer and any other member of the staff likely involved in production procedures

2.1. Attestation of conformity upon order "2.1". Document by which the producer certifies that supplied goods comply with what was exactly agreed on during the order procedures, without mentioning any test results. Attestation of conformity upon order "2.1" is a document drawn up on the basis of non-specific tests.

2.2. Attestation of control "2.2". Document in which the producer certifies that supplied goods comply with what was exactly agreed on during the order procedures by mentioning test results based on non-specific tests.

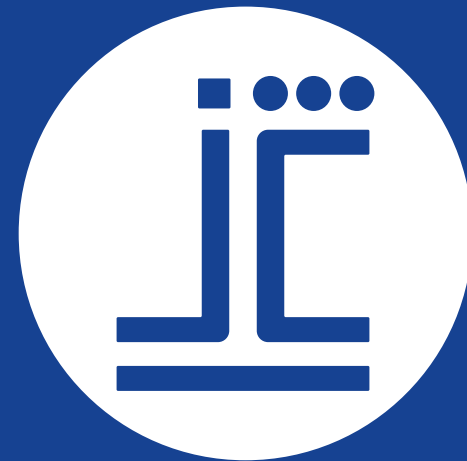
2.3. Specific attestation of control "2.3". Document in which the producer certifies that supplied goods comply with what was exactly agreed on during the order procedures by mentioning test results based on specific tests. The specific attestation of control "2.3" is exclusively used by those producers that do not have an authorized control service that is hierarchically independent from production services. Otherwise, if the producer possesses an authorized control service that is hierarchically independent from production services, he must provide a 3.1.B certificate.

3. Control documents drawn up on the basis of controls and tests performed or coordinated by authorized personnel hierarchically independent from production services, based on specific tests.

3.1. Acceptance certificate. Document issued on the basis of controls and tests performed in compliance with technical prescription agreed upon the order procedures or complying the official regulations and technical dispositions. Test must be made on the supplied goods or on goods belonging to the testing units to which the supply is part of. The testing unit is set by production norms, official regulations and technical disposition, or agreed upon ordination. As the case may be, different certifications can be distinguished:

- **Acceptance certificate "3.1.A".** It is issued and validated by a supervisor who is appointed according to official conformity regulations and technical disposition.
- **Acceptance certificate "3.1.B".** It is issued by the independent service of service production and validated by an appointed delegate of the hierarchically independent personnel of production service.
- **Acceptance certificate "3.1.C".** It is issued and validated by a spokesman appointed by the buyer in compliance with what was agreed upon ordination.

3.2. Approval record. As the acceptance certificate is validated, on the basis of special arrangements, by both the appointed spokesman of the producer and the appointed spokesman of the buyer, it assumes the name of approval record 3.2.



**Laminati
mercantili**

Merchant bars

UNP

UNP

UNS

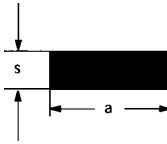
UNS

Travi

Beams

Piatto

Flat bars



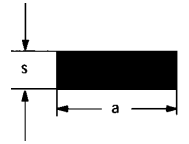
a x s mm	kg/mt
10 x 3	0,236
10 x 4	0,314
10 x 5	0,393
10 x 6	0,471
10 x 8	0,628
12 x 3	0,283
12 x 4	0,377
12 x 5	0,471
12 x 6	0,565
12 x 8	0,754
14 x 3	0,330
14 x 4	0,440
14 x 5	0,550
14 x 6	0,659
14 x 8	0,879
15 x 3	0,353
15 x 4	0,471
15 x 5	0,589
15 x 6	0,707
15 x 8	0,942
15 x 10	1,178
16 x 3	0,377
16 x 4	0,502
16 x 5	0,628
16 x 6	0,754
16 x 8	1,000
16 x 10	1,260

a x s mm	kg/mt
18 x 3	0,424
18 x 4	0,565
18 x 5	0,707
18 x 6	0,848
18 x 8	1,130
18 x 10	1,410
20 x 3	0,471
20 x 4	0,628
20 x 5	0,785
20 x 6	0,942
20 x 7	1,100
20 x 8	1,260
20 x 10	1,570
20 x 12	1,880
20 x 15	2,360
22 x 3	0,518
22 x 4	0,691
22 x 5	0,864
22 x 6	1,040
22 x 7	1,209
22 x 8	1,380
22 x 10	1,730
22 x 12	2,070
22 x 15	2,590
25 x 3	0,589
25 x 4	0,785
25 x 5	0,981
25 x 6	1,180
25 x 7	1,374
25 x 8	1,570

a x s mm	kg/mt
25 x 10	1,962
25 x 12	2,360
25 x 15	2,940
28 x 3	0,650
28 x 4	0,870
28 x 5	1,090
28 x 6	1,310
28 x 7	1,540
28 x 8	1,750
28 x 10	2,180
28 x 12	2,620
28 x 15	3,280
28 x 18	3,950
28 x 20	4,370
30 x 3	0,707
30 x 4	0,942
30 x 5	1,180
30 x 6	1,410
30 x 7	1,648
30 x 8	1,880
30 x 10	2,360
30 x 12	2,830
30 x 15	3,530
30 x 18	4,239
30 x 20	4,710
35 x 3	0,824
35 x 4	1,100
35 x 5	1,370
35 x 6	1,650
35 x 7	1,923

Piatto

Flat bars



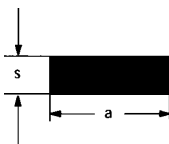
a x s mm	kg/mt
35 x 8	2,200
35 x 10	2,750
35 x 12	3,300
35 x 15	4,120
35 x 18	4,945
35 x 20	5,500
35 x 25	6,870
40 x 3	0,942
40 x 4	1,260
40 x 5	1,570
40 x 6	1,880
40 x 7	2,198
40 x 8	2,510
40 x 10	3,140
40 x 12	3,770
40 x 15	4,710
40 x 18	5,652
40 x 20	6,280
40 x 25	7,850
40 x 30	9,420
45 x 3	1,060
45 x 4	1,410
45 x 5	1,770
45 x 6	2,120
45 x 7	2,470
45 x 8	2,830
45 x 10	3,530
45 x 12	4,240
45 x 15	5,300
45 x 18	6,360
45 x 20	7,070

a x s mm	kg/mt
40 x 25	8,830
40 x 30	10,600
50 x 3	1,180
50 x 4	1,570
50 x 5	1,960
50 x 6	2,360
50 x 7	2,750
50 x 8	3,140
50 x 10	3,930
50 x 12	4,710
50 x 15	5,890
50 x 18	7,060
50 x 20	7,850
50 x 25	9,810
50 x 30	11,800
50 x 35	13,740
50 x 40	15,700
55 x 4	1,730
55 x 5	2,160
55 x 6	2,590
55 x 8	3,450
55 x 10	4,320
55 x 12	5,180
55 x 15	6,480
55 x 18	7,770
55 x 20	8,640
55 x 25	10,800
55 x 30	13,000

a x s mm	kg/mt
60 x 3	1,410
60 x 4	1,880
60 x 5	2,360
60 x 6	2,830
60 x 7	3,300
60 x 8	3,770
60 x 10	4,710
60 x 12	5,650
60 x 15	7,070
60 x 18	8,480
60 x 20	9,420
60 x 25	11,800
60 x 30	14,100
60 x 40	18,800
60 x 50	23,600
65 x 4	2,040
65 x 5	2,550
65 x 6	3,060
65 x 8	4,080
65 x 10	5,100
65 x 12	6,120
65 x 15	7,650
65 x 18	9,180
65 x 20	10,200
65 x 25	12,800
65 x 30	15,300
65 x 40	20,400
70 x 3	1,650
70 x 4	2,200
70 x 5	2,750
70 x 6	3,300

Piatto

Flat bars



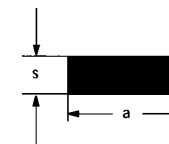
a x s mm	kg/mt
70 x 7	3,850
70 x 8	4,400
70 x 10	5,500
70 x 12	6,590
70 x 15	8,240
70 x 18	9,890
70 x 20	11,000
70 x 25	13,700
70 x 30	16,500
70 x 40	22,000
70 x 50	27,500
70 x 60	33,000
75 x 4	2,360
75 x 5	2,940
75 x 6	3,530
75 x 8	4,710
75 x 10	5,890
75 x 12	7,070
75 x 15	8,830
75 x 18	10,600
75 x 20	11,800
75 x 25	14,700
75 x 30	17,700
75 x 40	23,600
75 x 50	29,400
80 x 3	1,880
80 x 4	2,510
80 x 5	3,140
80 x 6	3,770
80 x 8	5,020
80 x 10	6,280

a x s mm	kg/mt
80 x 12	7,540
80 x 15	9,420
80 x 20	12,600
80 x 25	15,700
80 x 30	18,800
80 x 40	25,100
80 x 50	31,400
80 x 60	37,700
90 x 3	2,120
90 x 4	2,830
90 x 5	3,530
90 x 6	4,240
90 x 8	5,650
90 x 10	7,070
90 x 12	8,480
90 x 15	10,600
90 x 20	14,100
90 x 25	17,700
90 x 30	21,200
90 x 40	28,300
90 x 50	35,300
90 x 60	42,400
100 x 3	2,350
100 x 4	3,140
100 x 5	3,930
100 x 6	4,710
100 x 8	6,280
100 x 10	7,850
100 x 12	9,420
100 x 15	11,800
100 x 20	15,700

a x s mm	kg/mt
100 x 25	19,600
100 x 30	23,600
100 x 40	31,400
100 x 50	39,250
100 x 60	47,100
110 x 3	2,590
110 x 4	3,450
110 x 5	4,320
110 x 6	5,180
110 x 8	6,910
110 x 10	8,640
110 x 12	10,400
110 x 15	13,000
110 x 20	17,300
110 x 25	21,600
110 x 30	25,900
110 x 40	34,500
110 x 50	43,200
110 x 60	51,800
120 x 3	2,820
120 x 4	3,770
120 x 5	4,710
120 x 6	5,650
120 x 8	7,540
120 x 10	9,420
120 x 12	11,300
120 x 15	14,100
120 x 20	18,800
120 x 25	23,600
120 x 30	28,300
120 x 40	37,700

Piatto

Flat bars



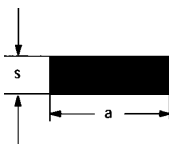
a x s mm	kg/mt
120 x 50	47,100
120 x 60	56,500
130 x 3	3,070
130 x 4	4,080
130 x 5	5,100
130 x 6	6,120
130 x 8	8,160
130 x 10	10,200
130 x 12	12,200
130 x 15	15,300
130 x 20	20,400
130 x 25	25,500
130 x 30	30,600
130 x 40	40,800
130 x 50	51,000
130 x 60	61,200
140 x 3	3,300
140 x 4	4,400
140 x 5	5,500
140 x 6	6,590
140 x 8	8,790
140 x 10	11,000
140 x 12	13,200
140 x 15	16,500
140 x 20	22,000
140 x 25	27,500
140 x 30	33,000
140 x 40	44,000
140 x 50	55,000
140 x 60	66,000

a x s mm	kg/mt
150 x 3	3,530
150 x 4	4,710
150 x 5	5,890
150 x 6	7,060
150 x 8	9,420
150 x 10	11,800
150 x 12	14,100
150 x 15	17,700
150 x 20	23,600
150 x 25	29,400
150 x 30	35,300
150 x 40	47,100
150 x 50	58,900
150 x 60	70,600
160 x 5	6,280
160 x 6	7,540
160 x 8	10,000
160 x 10	12,600
160 x 11	13,800
160 x 12	15,100
160 x 15	18,800
160 x 20	25,100
160 x 25	31,400
160 x 30	37,700
160 x 35	44,000
160 x 40	50,200
160 x 50	62,800
160 x 60	75,400
170 x 5	6,670
170 x 6	8,010
170 x 8	10,700

a x s mm	kg/mt
170 x 10	13,300
170 x 11	14,600
170 x 12	16,000
170 x 15	20,000
170 x 20	26,700
170 x 25	33,400
170 x 30	40,300
170 x 35	46,700
170 x 40	53,400
170 x 50	66,700
170 x 60	80,100
170 x 70	93,400
170 x 80	106,800
170 x 100	133,400
180 x 5	7,070
180 x 6	8,480
180 x 8	11,300
180 x 10	14,100
180 x 11	15,500
180 x 12	17,000
180 x 15	21,200
180 x 20	28,300
180 x 25	35,300
180 x 30	42,200
180 x 35	49,500
180 x 40	56,500
180 x 50	70,700
180 x 60	84,800
180 x 70	98,900
180 x 80	113,000
180 x 100	141,300

Piatto

Flat bars



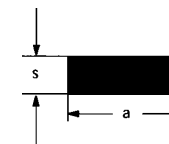
a x s mm	kg/mt
120 x 50	47,100
120 x 60	56,500
130 x 3	3,070
130 x 4	4,080
130 x 5	5,100
130 x 6	6,120
130 x 8	8,160
130 x 10	10,200
130 x 12	12,200
130 x 15	15,300
130 x 20	20,400
130 x 25	25,500
130 x 30	30,600
130 x 40	40,800
130 x 50	51,000
130 x 60	61,200
140 x 3	3,300
140 x 4	4,400
140 x 5	5,500
140 x 6	6,590
140 x 8	8,790
140 x 10	11,000
140 x 12	13,200
140 x 15	16,500
140 x 20	22,000
140 x 25	27,500
140 x 30	33,000
140 x 40	44,000
140 x 50	55,000
140 x 60	66,000

a x s mm	kg/mt
150 x 3	3,530
150 x 4	4,710
150 x 5	5,890
150 x 6	7,060
150 x 8	9,420
150 x 10	11,800
150 x 12	14,100
150 x 15	17,700
150 x 20	23,600
150 x 25	29,400
150 x 30	35,300
150 x 40	47,100
150 x 50	58,900
150 x 60	70,600
160 x 5	6,280
160 x 6	7,540
160 x 8	10,000
160 x 10	12,600
160 x 11	13,800
160 x 12	15,100
160 x 15	18,800
160 x 20	25,100
160 x 25	31,400
160 x 30	37,700
160 x 35	44,000
160 x 40	50,200
160 x 50	62,800
160 x 60	75,400
170 x 5	6,670
170 x 6	8,010
170 x 8	10,700

a x s mm	kg/mt
170 x 10	13,300
170 x 11	14,600
170 x 12	16,000
170 x 15	20,000
170 x 20	26,700
170 x 25	33,400
170 x 30	40,300
170 x 35	46,700
170 x 40	53,400
170 x 50	66,700
170 x 60	80,100
170 x 70	93,400
170 x 80	106,800
170 x 100	133,400
180 x 5	7,070
180 x 6	8,480
180 x 8	11,300
180 x 10	14,100
180 x 11	15,500
180 x 12	17,000
180 x 15	21,200
180 x 20	28,300
180 x 25	35,300
180 x 30	42,200
180 x 35	49,500
180 x 40	56,500
180 x 50	70,700
180 x 60	84,800
180 x 70	98,900
180 x 80	113,000
180 x 100	141,300

Piatto

Flat bars



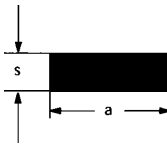
a x s mm	kg/mt
190 x 10	14,900
190 x 11	16,400
190 x 12	17,900
190 x 15	22,300
190 x 20	29,800
190 x 25	37,200
190 x 30	44,700
190 x 35	52,200
190 x 40	59,600
190 x 50	74,500
190 x 60	89,000
190 x 70	104,400
190 x 80	119,300
190 x 100	149,200
200 x 5	7,850
200 x 6	9,420
200 x 8	12,560
200 x 10	15,700
200 x 11	17,200
200 x 12	18,800
200 x 15	23,600
200 x 20	31,400
200 x 25	39,200
200 x 30	47,100
200 x 35	55,000
200 x 40	62,800
200 x 50	78,500
200 x 60	94,200
200 x 70	109,900
200 x 80	125,600
200 x 100	157,000

a x s mm	kg/mt
210 x 10	16,400
210 x 11	18,100
210 x 12	19,700
210 x 15	24,700
210 x 20	32,900
210 x 25	41,200
210 x 30	49,400
210 x 35	57,600
210 x 40	65,900
210 x 50	82,400
210 x 60	98,900
210 x 70	115,300
210 x 80	131,800
210 x 100	164,500
220 x 5	8,640
220 x 6	10,340
220 x 8	13,800
220 x 10	17,300
220 x 11	18,900
220 x 12	20,700
220 x 15	25,900
220 x 20	34,500
220 x 25	43,200
220 x 30	51,800
220 x 35	60,400
220 x 40	69,100
220 x 50	86,400
220 x 60	103,600
220 x 70	120,800
220 x 80	138,100
220 x 100	172,700

a x s mm	kg/mt
230 x 10	18,000
230 x 11	19,800
230 x 12	21,600
230 x 15	27,000
230 x 20	36,100
230 x 25	45,100
230 x 30	54,100
230 x 35	63,100
230 x 40	72,200
230 x 50	90,200
230 x 60	108,300
230 x 70	126,300
230 x 80	144,400
230 x 100	180,500
240 x 10	18,800
240 x 11	20,700
240 x 12	22,600
240 x 15	28,200
240 x 20	37,600
240 x 25	47,100
240 x 30	56,500
240 x 35	65,900
240 x 40	75,300
240 x 50	94,200
240 x 60	113,000
240 x 70	131,800
240 x 80	150,700
240 x 100	188,400

Piatto

Flat bars



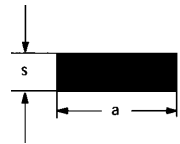
a x s mm	kg/mt
250 x 5	9,810
250 x 6	11,750
250 x 8	15,720
250 x 10	19,600
250 x 11	21,500
250 x 12	23,600
250 x 15	29,400
250 x 20	39,300
250 x 25	49,100
250 x 30	58,900
250 x 35	68,700
250 x 40	78,500
250 x 50	98,120
250 x 60	117,800
250 x 70	137,300
250 x 80	157,000
250 x 100	196,200
260 x 10	20,400
260 x 11	22,400
260 x 12	24,400
260 x 15	30,600
260 x 20	40,800
260 x 25	51,000
260 x 30	61,200
260 x 35	71,400
260 x 40	81,600
260 x 50	102,000
260 x 60	122,400
260 x 70	142,800
260 x 80	163,200
260 x 100	204,100

a x s mm	kg/mt
270 x 10	21,200
270 x 11	23,300
270 x 12	25,400
270 x 15	31,700
270 x 20	42,300
270 x 25	52,900
270 x 30	63,500
270 x 35	74,100
270 x 40	84,700
270 x 50	105,900
270 x 60	127,100
270 x 70	148,300
270 x 80	169,500
270 x 100	211,900
280 x 10	22,000
280 x 11	24,100
280 x 12	26,300
280 x 15	32,900
280 x 20	43,900
280 x 25	54,900
280 x 30	65,900
280 x 35	76,900
280 x 40	87,900
280 x 50	109,900
280 x 60	131,800
280 x 70	153,800
280 x 80	175,800
280 x 100	219,800

a x s mm	kg/mt
300 x 10	23,600
300 x 11	25,900
300 x 12	28,300
300 x 15	35,300
300 x 20	47,100
300 x 25	58,900
300 x 30	70,600
300 x 35	82,400
300 x 40	94,200
300 x 50	117,700
300 x 60	141,300
300 x 70	164,800
300 x 80	188,400
300 x 100	235,500
320 x 10	25,100
320 x 11	27,600
320 x 12	30,100
320 x 15	37,600
320 x 20	50,200
320 x 25	62,800
320 x 30	75,300
320 x 35	87,900
320 x 40	100,400
320 x 50	125,600
320 x 60	150,700
320 x 70	175,800
320 x 80	200,900
320 x 100	251,200

Piatto

Flat bars



a x s mm	kg/mt
330 x 10	25,900
330 x 11	28,400
330 x 12	31,000
330 x 15	38,800
330 x 20	51,800
330 x 25	64,700
330 x 30	77,700
330 x 35	90,600
330 x 40	103,600
330 x 50	129,500
330 x 60	155,400
330 x 70	181,300
330 x 80	207,200
330 x 100	259,000
340 x 10	26,600
340 x 11	29,300
340 x 12	32,000
340 x 15	40,000
340 x 20	53,300
340 x 25	66,700
340 x 30	80,000
340 x 35	93,400
340 x 40	106,700
340 x 50	133,400
340 x 60	160,100
340 x 70	186,800
340 x 80	213,500
340 x 100	266,900

a x s mm	kg/mt
350 x 10	27,400
350 x 11	30,200
350 x 12	33,000
350 x 15	41,200
350 x 20	55,000
350 x 25	68,700
350 x 30	82,400
350 x 35	96,100
350 x 40	109,900
350 x 50	137,300
350 x 60	164,800
350 x 70	192,300
350 x 80	219,800
350 x 100	274,700
360 x 12	33,900
360 x 15	42,300
360 x 20	56,500
360 x 25	70,600
360 x 30	84,700
360 x 35	98,900
360 x 40	113,000
360 x 50	141,300
360 x 60	169,500
360 x 70	197,800
360 x 80	226,000
360 x 100	282,600
370 x 12	34,800
370 x 15	43,500
370 x 20	58,000
370 x 25	72,600
370 x 30	87,100

a x s mm	kg/mt
370 x 35	101,600
370 x 40	116,100
370 x 50	145,200
370 x 60	174,200
370 x 70	203,300
370 x 80	232,300
370 x 100	290,400
400 x 12	37,600
400 x 15	47,200
400 x 20	62,800
400 x 25	78,500
400 x 30	94,200
400 x 35	109,900
400 x 40	125,600
400 x 50	157,000
400 x 60	188,400
400 x 70	219,800
400 x 80	251,200
400 x 100	314,000
410 x 20	64,300
410 x 25	80,400
410 x 30	96,500
410 x 35	112,600
410 x 40	128,700
410 x 50	160,900
420 x 20	65,900
420 x 25	82,400
420 x 30	98,900
420 x 35	115,300
420 x 40	131,800
420 x 50	164,800

Tondo L.C. / Quadro

Round / Square

	●	■		●	■
	tondo kg/mt	quadro kg/mt		tondo kg/mt	quadro kg/mt
4	0,098	0,125	30	5,550	7,070
5	0,154	0,196	32	6,313	8,040
6	0,222	0,283	33	6,710	8,550
7	0,302	0,385	34	7,130	9,075
8	0,395	0,502	35	7,550	9,620
9	0,499	0,636	36	7,990	10,174
10	0,617	0,785	37	8,440	10,750
11	0,746	0,950	38	8,903	11,335
12	0,888	1,130	39	9,380	11,940
13	1,042	1,327	40	9,865	12,600
14	1,280	1,540	42	10,876	13,847
15	1,387	1,766	43	11,400	14,514
16	1,578	2,010	45	12,500	15,900
17	1,782	2,270	46	13,046	16,611
18	2,000	2,543	47	13,600	17,341
19	2,230	2,834	48	14,205	18,086
20	2,466	3,140	50	15,414	19,625
21	2,720	3,462	52	16,671	21,226
22	2,984	3,800	53	17,300	22,100
23	3,261	4,153	55	18,700	23,700
24	3,551	4,522	56	19,335	24,618
25	3,853	4,906	57	20,02	25,51
26	4,170	5,307	58	20,74	26,41
27	4,495	5,723	60	22,20	28,30
28	4,834	6,154	63	24,50	31,20
29	5,185	6,602	64	25,24	32,15

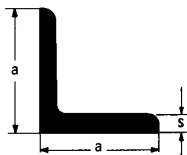
Tondo L.C. / Quadro

Round / Square

	●	■		●	■
	tondo kg/mt	quadro kg/mt		tondo kg/mt	quadro kg/mt
65	26,00	33,20	155	148,1	188,6
68	28,51	36,30	160	158,0	201,0
70	30,21	38,50	165	167,9	213,7
72	31,95	40,69	170	178,2	227,0
73	32,91	41,80	175	188,8	240,4
75	34,70	44,20	180	200,0	254,3
76	35,59	45,34	185	211,0	268,7
78	37,51	47,80	200	246,6	314,0
80	39,50	50,24	210	271,9	346,2
83	42,50	54,08	220	298,4	379,9
85	44,50	56,72	230	326,2	415,3
88	47,70	60,79	240	355,1	452,2
90	49,94	63,60	250	385,3	490,6
93	53,30	67,90	260	416,8	530,7
95	55,64	70,90	270	450,0	572,3
100	61,70	78,50	275	466,0	593,7
105	68,00	84,55	280	483,4	615,4
110	74,60	95,00	300	554,7	706,5
115	81,54	104,00	350	755,8	961,6
120	88,80	113,04			
125	96,3	123,0			
130	104,2	133,0			
135	112,4	143,0			
140	120,8	154,0			
145	129,6	165,0			
150	138,7	177,0			

Angolari a spigoli tondi

Equal leg angles (with round edges)

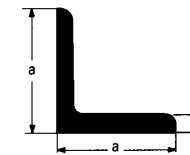


a x a x s	mm	kg/mt
15 x 15 x 3		0,630
20 x 20 x 3		0,880
4		1,140
25 x 25 x 3		1,120
4		1,460
5		1,780
30 x 30 x 3		1,360
4		1,780
5		2,180
6		2,580
35 x 35 x 3		1,600
3,5		1,820
4		2,090
5		2,570
6		3,040
40 x 40 x 3		1,840
4		2,420
5		2,970
6		3,520
45 x 45 x 4		2,740
5		3,380
6		4,000
8		5,160
50 x 50 x 4		3,060
5		3,770
6		4,470
7		5,150
8		5,820
10		7,500

a x a x s	mm	kg/mt
55 x 55 x 5		4,160
6		4,950
7		5,700
8		6,460
10		7,880
60 x 60 x 5		4,570
6		5,420
7		6,240
8		7,090
10		8,690
65 x 65 x 5		4,960
6		5,910
7		6,830
8		7,730
10		9,450
70 x 70 x 6		6,380
7		7,380
8		8,360
9		9,340
10		10,300
12		12,100
75 x 75 x 6		6,870
7		7,940
8		9,030
10		11,100
12		13,100
80 x 80 x 6		7,253
7		8,490
8		9,630
10		11,900
12		14,000

Angolari a spigoli tondi

Equal leg angles (with round edges)

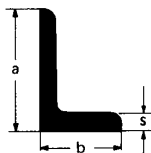


a x a x s	mm	kg/mt
90 x 90 x 6		8,195
7		9,506
8		10,900
9		12,200
10		13,400
12		15,900
15		19,500
100 x 100 x 8		12,200
9		13,600
10		15,100
11		16,400
12		17,800
14		20,600
16		23,200
110 x 110 x 8		13,500
9		14,900
10		16,600
12		19,700
15		24,200
120 x 120 x 8		14,570
10		18,200
12		21,600
15		26,600
18		31,500
130 x 130 x 8		15,830
10		18,300
12		23,600
14		27,200
16		30,900

a x a x s	mm	kg/mt
140 x 140 x 10		21,200
15		31,300
18		37,100
150 x 150 x 10		22,770
12		27,300
15		33,800
18		40,100
160 x 160 x 15		36,200
17		40,700
19		45,100
180 x 180 x 15		40,620
16		43,500
18		48,600
20		53,700
200 x 200 x 16		48,500
18		54,300
20		59,900
22		65,280
24		70,840
25		73,600

Elle a spigoli tondi

Unequal leg angles (with round edges)

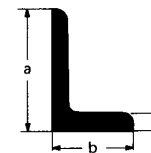


a x b x s	mm	kg/mt
25 x 15 x 3		0,890
30 x 20 x 3		1,100
4		1,460
5		1,780
35 x 20 x 4		1,610
5		1,970
40 x 20 x 3		1,350
4		1,770
5		2,170
40 x 25 x 4		1,930
5		2,370
45 x 30 x 4		2,250
5		2,760
6		3,270
50 x 30 x 4		2,390
5		2,960
6		3,510
50 x 40 x 4		2,700
5		3,340
60 x 30 x 5		3,370
6		3,990
60 x 40 x 5		3,760
6		4,460
7		5,140
8		5,810

a x b x s	mm	kg/mt
65 x 50 x 5		4,350
6		5,160
8		6,750
70 x 50 x 5		4,540
6		5,400
8		7,060
10		8,730
75 x 50 x 5		4,540
6		5,650
8		7,430
80 x 40 x 5		4,560
6		5,410
8		7,070
80 x 60 x 6		6,370
8		8,340
10		10,230
12		12,020
80 x 65 x 6		6,550
8		8,600
10		10,600
90 x 60 x 6		6,780
8		8,920
10		10,990
90 x 65 x 6		7,070
8		9,290
10		11,400

Elle a spigoli tondi

Unequal leg angles (with round edges)



a x b x s	mm	kg/mt
90 x 70 x 8		9,500
10		11,800
12		14,000
100 x 50 x 6		6,850
8		8,990
10		11,100
12		13,000
100 x 65 x 8		9,940
10		12,300
12		14,410
100 x 75 x 7		9,230
8		10,600
9		11,730
10		13,000
11		14,160
12		15,400
110 x 75 x 8		11,120
10		13,730
120 x 60 x 8		10,900
10		13,400
120 x 70 x 8		11,400
10		14,100
120 x 80 x 8		12,200
10		15,000
12		17,800

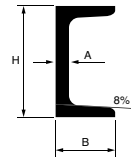
a x b x s	mm	kg/mt
125 x 75 x 8		12,200
10		15,000
12		17,800
130 x 65 x 8		11,800
10		14,600
12		17,300
130 x 75 x 10		15,310
12		18,180
140 x 90 x 10		17,300
12		20,600
150 x 100 x 10		19,300
12		22,600
14		26,100
160 x 80 x 10		18,200
12		21,600
14		25,000
200 x 90 x 12		26,300
15		32,500
200 x 100 x 10		23,000
12		27,300
14		31,600
15		33,560
16		35,900
18		40,000

Profilati a U

Serie speciale

U-sections

Special Series



h mm	b mm	a mm	e mm	r mm	Sezion e cm ²	Peso Kg/m	momenti di inerzia		moduli di resistenza		raggi di inerzia	
							Jx cm ⁴	Jy cm ⁴	Wx cm ³	Wy cm ³	Ix cm	Iy cm
*25	12	4	4	4	1,68	1,30	-	-	-	-	-	-
30	15	4	4,5	4,5	2,21	1,98	2,53	0,38	1,69	0,39	1,07	0,42
-	-	5	7	7	5,44	4,27	6,39	5,33	4,26	2,68	1,08	0,99
*35	17	5	5,5	5,5	3,27	2,52	-	-	-	-	-	-
40	20	5	5,5	5	3,66	3,23	7,58	1,14	3,79	0,86	1,44	0,56
-	-	-	-	-	6,21	4,87	14,10	6,68	7,05	3,08	1,50	1,04
50	25	5	6	6	4,92	4,15	16,80	2,49	6,73	1,48	1,85	0,71
-	-	-	-	-	7,12	5,59	26,40	9,12	10,60	3,75	1,92	1,13
60	30	6	6	6	6,46	5,45	31,60	4,51	10,50	2,16	2,21	0,84
-	-	-	-	-	9,03	7,09	57,50	14,10	17,70	5,07	2,52	1,25

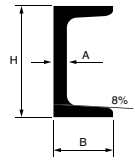
* Non unificato

Profilati a U

Serie normale

U-sections

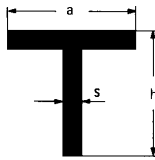
Normal Series



h mm	b mm	a mm	e mm	r mm	Sezion e cm ²	Peso Kg/m	momenti di inerzia		moduli di resistenza		raggi di inerzia	
							Jx cm ⁴	Jy cm ⁴	Wx cm ³	Wy cm ³	Ix cm	Iy cm
30	33	5	7	7	5,44	4,27	6,39	5,33	4,26	2,68	1,08	0,99
40	35	5	7	7	6,21	4,87	14,10	6,68	7,05	3,08	1,50	1,04
50	38	5	7	7	7,12	5,59	26,40	9,12	10,60	3,75	1,92	1,13
65	42	5,5	7,5	7,5	9,03	7,09	57,50	14,10	17,70	5,07	2,52	1,25
80	45	6	8	8	11,0	8,65	106	19,4	26,5	6,35	3,10	1,33
100	50	6	8,5	8,5	13,5	10,6	205	29,1	41,1	8,45	3,91	1,47
120	55	7	9	9	17,0	13,3	364	43,1	60,7	11,1	4,63	1,59
140	60	7	10	10	20,4	16,0	605	62,5	86,4	14,7	5,45	1,75
160	65	7,5	10,5	10,5	24,0	18,9	925	85,1	116	18,2	6,21	1,88
180	70	8	11	11	28,0	22,0	1354	114	150	22,4	6,96	2,01
200	75	8,5	11,5	11,5	32,2	25,3	1911	148	191	26,9	7,71	2,14
220	80	9	12,5	12,5	37,4	29,4	2691	196	245	33,5	8,48	2,29
240	85	9,5	13	13	42,3	33,2	3599	247	300	39,5	9,22	2,42
260	90	10	14	14	48,3	37,9	4824	317	371	47,8	10,0	2,56
280	95	10	15	15	53,4	41,9	6276	398	448	57,2	10,8	2,73
300	100	10	16	16	58,8	46,1	8028	493	535	67,6	11,7	2,90
320	100	14	17,5	17,5	75,8	59,5	-	-	679	-	-	-
350	100	14	16	16	77,3	60,6	-	-	734	-	-	-
380	102	13,5	16	16	80,4	63,1	-	-	829	-	-	-
400	110	14	18	18	91,5	71,8	-	-	1020	-	-	-

Ferro a T spigoli vivi

T iron (with sharp edges)



h x a x s mm	kg/mt
20 x 20 x 4	1,13
25 x 25 x 4,5	1,61
30 x 30 x 4	1,76
5	2,16
35 x 35 x 4,5	2,31
5,5	2,78
40 x 40 x 5	2,94
6	3,49
6,5	4,26

h x a x s mm	kg/mt
45 x 45 x 5,5	3,60
50 x 50 x 6	4,43
7	5,11
60 x 60 x 8	7,03
70 x 70 x 9	9,26
80 x 80 x 10	11,80
90 x 90 x 10	13,30
100 x 100 x 11	16,40

Mezzi tondi

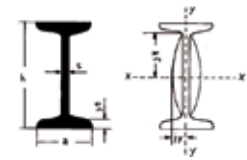
Half round bars



dimensione axh mm	kg/mt
11 x 3	0,200
21 x 6	0,700
30 x 10	1,700
35 x 10	1,950
40 x 10	2,400
50 x 10	3,100

Travi INP

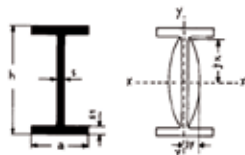
INP beams



Designazione Profilo h mm	b mm	a mm	e mm	r mm	Peso kg/m	Sezione cm ²	Jx cm ⁴	Jy cm ⁴	Wx cm ³	Wy cm ³	ix cm	iy cm
80	42	3,9	5,9	3,9	5,94	7,57	77,7	6,28	19,4	2,99	3,20	0,91
100	50	4,5	6,8	4,5	8,34	10,6	170	12,1	34,1	4,86	4,00	1,07
120	58	5,1	7,7	5,1	11,1	14,2	328	21,5	54,7	7,41	4,81	1,23
140	66	5,7	8,6	5,7	14,3	18,3	573	35,2	81,9	10,7	5,61	1,40
160	74	6,3	9,5	6,3	17,9	22,8	935	54,7	117	14,8	6,40	1,55
180	82	6,9	10,4	6,9	21,9	27,9	1.450	81,3	161	19,8	7,20	1,71
200	90	7,5	11,3	7,5	26,2	33,4	2.140	117	214	26,0	8,00	1,87
220	98	8,1	12,2	8,1	31,1	39,5	3.060	162	278	33,1	8,80	2,02
240	106	8,7	13,1	8,7	36,2	46,1	4.250	221	354	41,7	9,59	2,20
260	113	9,4	14,1	9,4	41,9	53,3	5.740	288	442	51,0	10,40	2,32
300	125	10,8	16,2	10,8	54,2	69,0	9.800	451	653	72,2	11,9	2,56
320	131	11,5	17,3	11,5	61,0	77,7	12.510	555	782	84,7	12,7	2,67
340	137	12,2	18,3	12,2	68,0	86,7	15.700	674	923	98,4	13,5	2,80
360	143	13,0	19,5	13,0	76,1	97,0	19.610	818	1.090	114	14,2	2,90
380	149	13,7	20,5	13,7	84,0	107	24.010	975	1.260	131	15,0	3,02
400	155	14,4	21,6	14,4	92,4	118	29.210	1.160	1.460	149	15,7	3,13
450	170	16,2	24,3	16,2	115	147	45.850	1.730	2.040	203	17,7	3,43
500	185	18,0	27,0	18,0	141	179	68.740	2.480	2.750	268	19,6	3,72
550	200	19,0	30,0	19,0	166	212	99.180	3.480	3.610	349	21,6	4,02
600	215	21,6	32,4	21,6	199	254	138.800	4.679	4.626	435	23,4	4,29

Travi IPE

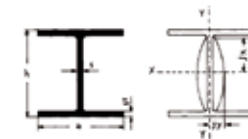
IPE beams



Designazione profilo h mm	b mm	d mm	a mm	c mm	e mm	Sezione cm ²	Peso Kg / m
80	46	59,5	3,8	69,6	5,2	7,6	6,0
100	55	74,6	4,1	88,6	5,7	10,3	8,1
120	64	93,4	4,4	107,4	6,3	13,2	10,4
140	73	112,2	4,7	126,2	6,9	16,4	12,9
160	82	127,2	5,0	145,2	7,4	20,1	15,8
180	91	146	5,3	164	8,0	23,9	18,8
200	100	159	5,6	183	8,5	28,5	22,4
220	110	177,6	5,9	201,6	9,2	33,4	26,2
240	120	190,4	6,2	220,4	9,8	39,1	30,7
270	135	219,6	6,6	249,6	10,2	45,9	36,1
300	150	248,6	7,1	278,6	10,7	53,8	42,2
330	160	271	7,5	307	11,5	62,6	49,1
360	170	298,6	8,0	334,6	12,7	72,7	57,1
400	180	331	8,6	373	13,5	84,5	66,3
450	190	378,8	9,4	420,8	14,6	98,8	77,6
500	200	426	10,2	468	16,0	116	90,7
550	210	467,6	11,1	515,8	17,2	134	106
600	220	514	12,0	562	19,0	156	122

Travi HEA

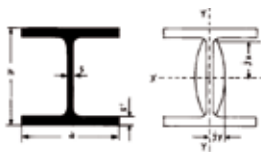
HEA beams



Designazione abbreviata (*)	h mm	b mm	d mm	a mm	c mm	e mm	Sezione cm ²	Peso Kg / m
100	96	100	56	5	80	8	21,2	16,7
120	114	120	74	5	98	8	25,3	19,9
140	133	140	92	5,5	116	8,5	31,4	24,7
160	152	160	104	6	134	9	38,8	30,4
180	171	180	122	6	152	9,5	45,3	35,5
200	190	200	134	6,5	170	10	53,8	42,3
220	210	220	152	7	188	11	64,3	50,5
240	230	240	164	7,5	206	12	76,8	60,3
260	250	260	177	7,5	225	12,5	86,8	68,2
280	270	280	196	8	244	13	97,3	76,4
300	290	300	208	8,5	262	14	112,5	88,3
320	310	300	225	9	279	15,5	124,4	97,6
340	330	300	243	9,5	297	16,5	133,5	105
360	350	300	261	10	315	17,5	142,8	112
400	390	300	298	11	352	19	159,0	125
450	440	300	344	11,5	398	21	178,0	140
500	490	300	390	12	444	23	197,5	155
550	540	300	438	12,5	492	24	211,8	166
600	590	300	486	13	540	25	226,5	178

Travi HEB

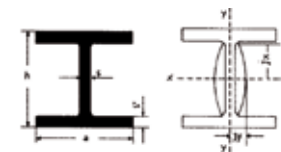
HEB beams



Designazione abbreviata (*)	h mm	b mm	d mm	a mm	c mm	e mm	Sezione cm ²	Peso Kg / m
100	100	100	56	6	80	10	26,0	20,4
120	120	120	74	6,5	98	11	34,0	26,7
140	140	140	92	7	116	12	43,0	33,7
160	160	160	104	8	134	13	54,3	42,6
180	180	180	122	8,5	152	14	65,3	51,2
200	200	200	134	9	170	15	78,1	61,3
220	220	220	152	9,5	188	16	91,0	71,5
240	240	240	164	10	206	17	106,0	83,2
260	260	260	177	10	225	17,5	118,4	93,0
280	280	280	196	18,5	244	18	131,4	103
300	300	300	208	11	262	19	149,1	117
320	320	300	225	11,5	279	20,5	161,3	127
340	340	300	243	12	297	21,5	170,9	134
360	360	300	261	12,5	315	22,5	180,6	142
400	400	300	298	13,5	352	24	197,8	155
450	450	300	344	14	398	26	218,0	171
500	500	300	390	14,5	444	28	238,6	187
550	550	300	438	15	492	29	254,1	199
600	600	300	486	15,5	540	30	270,0	212

Travi HEM

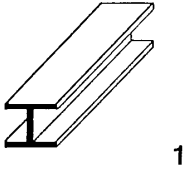
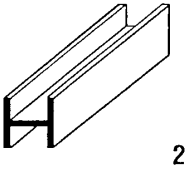
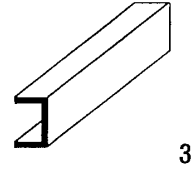
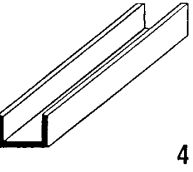
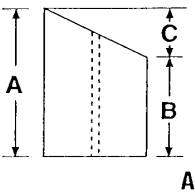
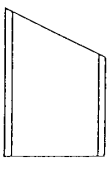
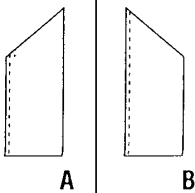
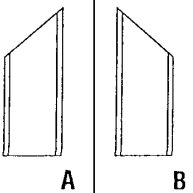
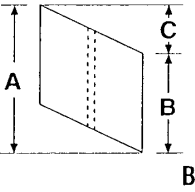
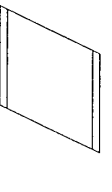
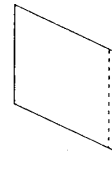
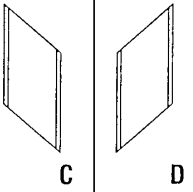
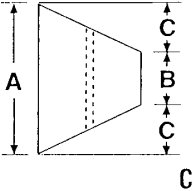
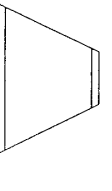
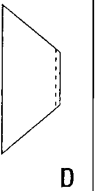
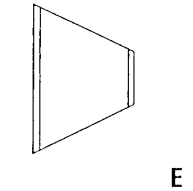
HEM beams

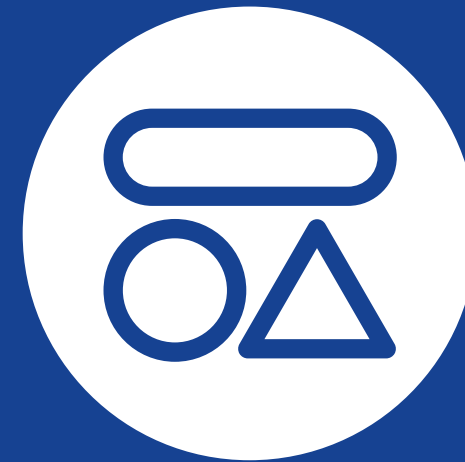


Designazione abbreviata (*)	h mm	b mm	d mm	a mm	c mm	e mm	Sezione cm ²	Peso Kg / m
100	120	106	56	12	80	20	53,2	41,8
120	140	126	74	12,5	98	21	66,4	52,1
140	160	146	92	13	116	22	80,6	63,2
160	180	166	104	14	134	23	97,1	76,2
180	200	186	122	14,5	152	24	113,3	88,9
200	220	206	134	15	170	25	131,3	103
220	240	226	152	15,5	188	26	149,4	117
240	270	248	164	18	206	32	199,6	157
260	290	268	177	18	225	32,5	219,6	172
280	310	288	196	18,5	244	33	240,2	189
300	340	310	208	21	262	39	303,0	238
320	359	309	225	21	279	40	312,0	245
340	377	309	243	21	297	40	316,0	248
360	395	308	261	21	315	40	319,0	250
400	432	307	298	21	352	40	326,0	256
450	478	307	344	21	398	40	335,0	263
500	524	306	390	21	444	40	344,0	270
550	572	306	438	21	492	40	354,0	278
600	620	305	486	21	540	40	364,0	285

Tabella tagli inclinati

Cross-cut table

 1	 2	 3	 4
 A	 A	 A B	 A B
 B	 B	 C	 C D
 C	 C	 D	 E

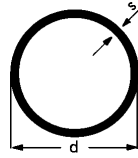


**Tubi e tubolari
da nastro laminato
a freddo**

Cold rolled pipes

Tubo tondo

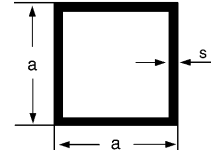
Round tube



DIMENSIONE mm " d "	spessore mm						
	1,5	2	2,5	3	4	5	6
	peso in Kg./mt.						
14	0,462	0,592					
15	0,499	0,641					
16	0,536	0,690					
18	0,610	0,788					
20	0,684	0,887	1,079				
22	0,757	0,985	1,202				
24	0,832	1,085					
25	0,868	1,130	1,387				
26	0,906	1,184	1,449				
28	0,979	1,281	1,572				
30	1,053	1,380	1,695	2,00			
32	1,127	1,478	1,819				
35	1,238	1,626	2,003	2,37			
38	1,349	1,776	2,189				
40	1,423	1,873	2,311	2,74			
42	1,497	1,971	2,435				
45	1,608	2,119	2,620				
48	1,719	2,267	2,805				
50	1,793	2,366	2,928	3,48			
55	1,980	2,610	3,230	3,85			
60	2,162	2,859	3,544	4,21	5,52		
70	2,533	3,350	4,160	4,96	6,51		
76	2,755	3,650	4,530	5,40	7,10		
80	2,903	3,850	4,780	5,70	7,50		
89	3,237	4,290	5,330	6,36	8,38		
100		4,830	6,010				
102		4,930	6,130	7,32	9,67		
114		5,520	6,870	8,21	10,85		
121				8,67	11,54	14,30	17,02
127				9,17	12,13	15,04	17,90
133				9,62	12,72	15,78	18,79
139				10,06	13,32	16,52	19,68
152				11,02	14,60	18,13	21,60
159				11,54	15,29	18,99	22,64
168				12,21	16,18	20,10	23,97
193,7				13,98	18,55	23,06	27,52
219				15,98	21,21	26,39	31,06

Tubo quadro

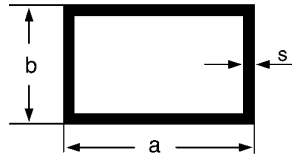
Square tube



DIMENSIONE mm "a" x "a"	spessore mm			
	1	1,2	1,5	
	peso in Kg./mt.			
10 x 10	0,283			
12 x 12	0,345	0,407		
14 x 14	0,419	0,483		
15 x 15	0,444	0,520		
16 x 16	0,469	0,558		
18 x 18	0,543	0,633		
20 x 20	0,592	0,709	0,872	
22 x 22	0,666	0,784	0,966	
25 x 25	0,764	0,897	1,107	
30 x 30	0,912	1,086	1,343	
35 x 35	1,085	1,274	1,578	
40 x 40	1,233	1,462	1,814	
45 x 45	1,406	1,650	2,050	
50 x 50	1,541	1,820	2,270	
60 x 60		2,216	2,756	
70 x 70		2,593	3,227	

Tubo rettangolare

Rectangular tube



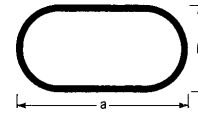
DIMENSIONE mm "a" x "b"	spessore mm			
	1	1,2	1,5	
	peso in Kg./mt.			
15 x 10	0,370	0,437	0,536	
20 x 10	0,444	0,526	0,647	
20 x 15	0,518	0,615	0,757	
25 x 10	0,518	0,615	0,757	
25 x 15	0,592	0,703	0,868	
30 x 10	0,592	0,703	0,868	
30 x 15	0,666	0,792	0,979	
30 x 20	0,764	0,911	1,127	
35 x 10	0,666	0,792	0,979	
35 x 15	0,764	0,911	1,127	
35 x 20	0,838	0,999	1,238	
40 x 10	0,764	0,911	1,127	
40 x 15	0,838	0,999	1,238	
40 x 20	0,912	1,088	1,349	
40 x 25	0,986	1,206	1,497	
40 x 30	1,085	1,295	1,608	
50 x 10	0,912	1,088	1,349	
50 x 15	0,986	1,206	1,497	
50 x 20	1,085	1,295	1,608	
50 x 25	1,159	1,384	1,719	
50 x 30	1,233	1,443	1,793	
60 x 20	1,233	1,443	1,793	

Tubo ovale / Semiovale / Ellittico

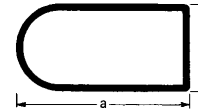
Oval tube / Semi-oval tube / Elliptic tube

DIMENSIONE mm "a" x "b"	spessore mm			
	1	1,2	1,5	2
	peso in Kg./mt.			
20 x 10	0,370	0,449		
25 x 15	0,503	0,598	0,736	
30 x 15	0,592	0,691	0,853	
33 x 10	0,592	0,694	0,856	
36 x 18	0,715	0,836	1,050	
40 x 20	0,789	0,933	1,160	
50 x 25	1,011	1,207	1,458	
60 x 20	1,085	1,296	1,626	
60 x 30		1,440	1,790	
80 x 25		1,665	2,070	
40 x 20	0,863	1,009	1,248	
40 x 25	0,912	1,083	1,341	
30 x 15	0,555	0,660	0,758	
76 x 25		1,590	1,980	
100 x 50				3,855

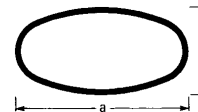
OVALE

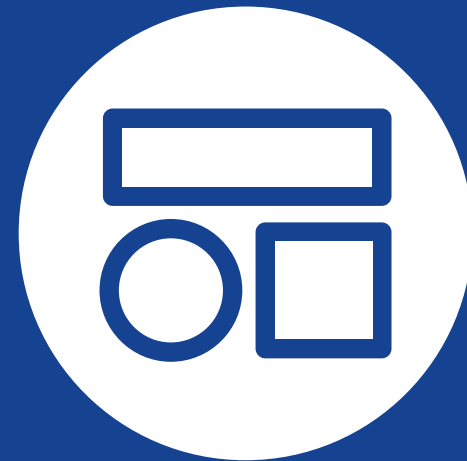


SEMIOVALE



ELLITTICO





Tubi e tubolari da nastro laminato a caldo, neri e decapati

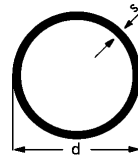
Hot rolled, black, pickled pipes

Tubi carpenteria zincati a caldo antirotazione

Anti-rotation, hot dip galvanized pipes

Tubo tondo

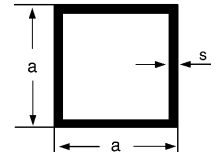
Round tube



Dimensioni		Spessori in mm - Peso in Kg/m								
pollici	Ø	2	2,5	3	4	5	6	7	8	10
	14									
	16	0,69								
3/8"	17,2	0,749	0,906							
	18	0,789								
	20	0,89	1,078							
1/2"	21,3	0,95	1,16	1,35						
	22	0,986								
	25	1,13	1,39	1,63						
3/4"	26,9	1,23	1,5	1,72						
	28	1,28	1,57	1,85						
	30	1,38	1,7	2						
	32	1,48	1,82	2,15						
1"	33,7	1,56	1,92	2,25	2,86	3,45				
	35	1,63	2	2,37	3,06					
	38	1,78	2,19	2,59	3,35	4,07				
	40	1,87	2,31	2,74	3,55					
1.1/4"	42,4	1,99	2,44	2,88	3,75	4,61				
	45	2,12	2,62	3,11	4,04	4,93				
1.1/2"	48,3	2,28	2,82	3,35	4,37	5,33	6,26			
	50	2,37	2,93	3,48	4,54	5,55	6,51			
	57	2,71	3,36	4	5,23	6,41	7,55			
2"	60,3	2,88	3,56	4,23	5,55	6,81	8,03			
	63,5	3,03	3,76	4,76	5,86	7,21	8,5			
	70	3,35	4,16	4,95	6,51	8,01	9,47			
2.1/2"	76,1	3,65	4,54	5,4	7,11	8,76	10,37	11,92	13,43	
	80	3,85	4,78	5,7	7,5	9,25	10,9			
	82,5	3,97	4,93	5,88	7,74	9,55	11,31	13,03	14,69	
3"	88,9	4,29	5,33	6,35	8,37	10,34	12,26	14,13	15,96	19,45
3.1/2"	101,6	4,91	6,11	7,29	9,62	11,91	14,14	16,33	18,46	22,59
	108	5,23	6,5	7,76	10,25	12,7	15,09	17,43	19,72	24,16
4"	114,3	5,54	6,89	8,23	10,88	13,47	16,02	18,52	20,97	25,72
	121	5,86	7,3	8,73	11,54	14,3	17,01	19,68	22,29	27,37
	127	6,17	7,68	9,17	12,13	15,04	17,9	20,71	23,47	28,85
	133	6,46	8,05	9,61	12,72	15,78	18,79	21,75	24,66	30,33
5"	139,7	6,79	8,46	10,11	13,38	16,6	19,78	22,9	25,98	31,98
	152,4	7,42	9,24	11,1	14,63	18,17	21,66	25,1	28,48	35,11
	159	7,74	9,65	11,5	15,29	18,98	22,63	26,24	29,79	36,74
6"	168,3		10,2	12,2	16,2	20,13	24,01	27,84	31,62	39,03
	177,8			12,9	17,1	21,3	25,42	29,48	33,5	41,38
	193,7			14,1	18,7	23,26	27,77	32,23	36,63	45,3
8"	219,1			16	21,2	26,4	26,4	36,61	41,64	51,56
	244,5				23,7	29,53	35,29	41	46,66	57,83
10"	273				26,5	33,04	39,5	45,92	52,28	64,86
12"	323,9				31,6	39,32	47,04	54,7	62,32	77,41
14"	355,6					43,2	51,73	60,18	68,58	85,23
16"	406,4					49,5	59,24	68,95	78,6	97,76
18"	457						66,73	77,68	88,58	110,23
20"	508						74,28	86,48	98,64	122,81
24"	609,6						89,31	104,02	118,69	147,87

Tubo quadro

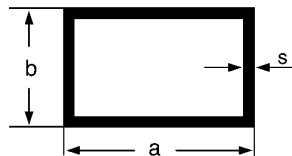
Square tube



Dim.	Spessori in mm - Peso in Kg/m								
	2	2,5	3	4	5	6	7	8	10
10x10									
15x15	0,74								
20x20	1,05	1,25	1,42						
25x25	1,36	1,64	1,89	2,31					
30x30	1,68	2,03	2,36	2,94					
35x35	1,99	2,42	2,83	3,57					
40x40	2,31	2,82	3,3	4,2	4,99				
45x45	2,62	3,21	3,77	4,83	5,77				
50x50	2,93	3,6	4,25	5,45	6,56				
60x60	3,56	4,39	5,19	6,71	8,13	9,45	11	12	
70x70	4,19	5,17	6,13	7,97	9,7	11,33	13	14,5	
80x80	4,82	5,96	7,07	9,22	11,27	13,21	14,73	16,36	
90x90	5,45	6,74	8,01	10,48	12,84	15,1	16,92	18,87	
100x100	6,1	7,53	8,96	11,73	14,41	16,98	19,12	21,39	25,57
110x110			9,9	12,99	15,98	18,87	21,32	23,9	28,71
120x120	7,33	9,1	10,8	14,25	17,55	20,75	23,52	26,41	
130x130			11,78	15,5	19,12	22,63	25,72	28,92	34,99
140x140			12,72	16,76	20,69	24,52	27,91	31,43	38,13
150x150			13,67	18,01	22,26	26,4	30,11	33,95	41,27
160x160			14,6	19,27	23,83	28,28	32,31	36,46	44,41
175x175			16	21,15	26,19	31,11	35,61	40,23	49,12
180x180			16,5	21,8	26,97	32,05	36,7	41,48	50,68
200x200			18,56	24,3	30,11	35,82	41,1	46,51	56,97
220x220			20,06	26,8	33,25	39,59	45,5	51,53	63,25
250x250				30,6	37,96	45,24	52,09	59,07	72,67
260x260				31,8	39,53	47,13	54,29	61,58	75,81
300x300					45,81	54,66	63,08	71,63	88,37
350x350						64,08	74,07	84,19	104
400x400						73,5	85,1	96,75	119,8
500x500							121,9	151,2	

Tubo rettangolo

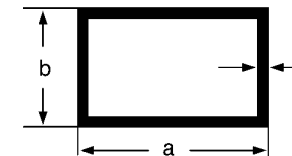
Rectangular tube



DIMENSIONE mm a x b	spessore mm							
	1,5	2	3	4	5	6	7	8
	peso in Kg./mt.							
20 x 10	0,647	0,839						
20 x 15	0,757	0,986						
25 x 10	0,757	0,986						
25 x 15	0,868	1,140						
30 x 10	0,868	1,140						
30 x 15	0,979	1,280						
30 x 20	1,127	1,470	2,140					
30 x 25	1,238	1,620	2,310					
35 x 10	0,979	1,280						
35 x 15	1,127	1,470						
35 x 20	1,238	1,620	2,310					
35 x 25	1,349	1,760						
40 x 10	1,127	1,470						
40 x 15	1,238	1,620						
40 x 20	1,349	1,760	2,570					
40 x 25	1,497	1,960	2,860					
40 x 30	1,608	2,110	3,090					
45 x 15	1,349	1,760						
45 x 20	1,497	1,960	2,860					
50 x 10	1,349	1,760						
50 x 15	1,497	1,960						
50 x 20	1,608	2,110	3,090					
50 x 25	1,719	2,250	3,310					
50 x 30	1,793	2,450	3,600	4,520				
50 x 40	2,049	2,700	3,970	4,830				
60 x 15	1,719	2,250						
60 x 20	1,793	2,450	3,600					
60 x 25	1,931	2,600	3,820					
60 x 30	2,049	2,700	3,970	4,830				
60 x 40	2,284	3,010	4,450	5,350	7,150			
60 x 50		3,330	4,920	6,080				

Tubo rettangolo

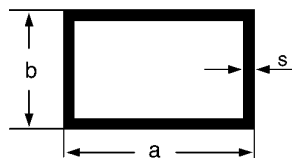
Rectangular tube



DIMENSIONE mm a x b	spessore mm							
	1,5	2	3	4	5	6	7	8
	peso in Kg./mt.							
70 x 20	2,049	2,70	3,97					
70 x 25	2,160	2,86	4,21					
70 x 30	2,284	3,01	4,45					
70 x 40	2,520	3,33	4,92	6,08	7,18			
70 x 50	2,750	3,65	5,40	7,10	7,96			
80 x 15	2,160	2,86						
80 x 20	2,284	3,01	4,45					
80 x 30	2,520	3,33	4,92					
80 x 40	2,750	3,65	5,40	7,10	7,96	9,20		
80 x 50	3,010	3,97	5,88	7,24	8,75			
80 x 60	3,230	4,26	6,32	7,86	10,36	11,09		
90 x 30	2,750	3,65	5,40	7,10				
90 x 40	3,010	3,97	5,88	7,24	8,75			
90 x 50	3,230	4,26	6,32	7,86	10,36	11,09		
90 x 60		4,59	6,81	8,98	11,10			
100 x 20	2,750	3,65	5,40	7,10				
100 x 30		3,97	5,88	7,24				
100 x 40		4,26	6,32	7,86	10,36			
100 x 50		4,59	6,81	8,98	11,10	13,17		
100 x 60		4,90	7,30	9,11	11,96	14,12		
100 x 80		5,50	8,20	10,80	13,35	15,82	16,94	20,40
120 x 30		4,59	6,81	8,98	11,10	13,17		
120 x 40		4,90	7,30	9,11	11,96	14,12		
120 x 50		5,26	7,77	10,26	12,56	14,88		
120 x 60		5,50	8,20	10,80	13,35	15,82	16,94	20,40
120 x 80		6,15	9,15	11,63	14,24	16,76	19,12	21,39
130 x 50		5,50	8,20	10,80	13,35	15,82		
130 x 60		5,87	8,73	11,46	14,31	17,02		
140 x 40		5,50	8,20	10,80	13,35			

Tubo rettangolo

Rectangular tube



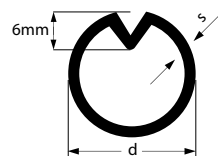
DIMENSIONE m m a x b	spessore mm						
	2	3	4	5	6	7	8
	peso in Kg./mt.						
140 x 60	6,15	9,15	11,63	14,24	16,76		
140 x 70		9,37	12,27	15,03	17,70	20,35	
140 x 80		9,90	12,99	15,81	18,62	21,32	25,62
150 x 40	5,87	8,73	11,46	14,31	17,02		
150 x 50	6,15	9,15	11,63	14,24	16,76		
150 x 60		9,37	12,27	15,03	17,70		
150 x 100		11,26	14,77	18,17	21,47	26,25	29,81
160 x 60		9,90	12,99	15,81	18,62		
160 x 80		11,05	14,14	17,38	20,53	25,05	28,43
180 x 60		11,05	14,14	17,38	20,53	25,05	28,43
180 x 80		12,23	16,21	20,14	24,02	27,81	31,59
200 x 100		13,85	17,91	22,09	26,19	32,25	36,66
200 x 150		15,98	21,23	26,41	31,55		
220 x 80		13,85	17,91	22,09	26,19	32,25	36,66
250 x 100		15,98	21,23	26,41	31,55	36,63	41,67

Tubo antirotazione per segnaletica stradale

Zincato a caldo

Anti-rotational pipe for road signs

Hot-dip galvanized



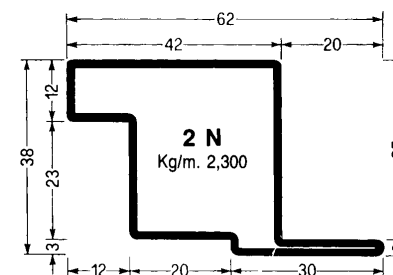
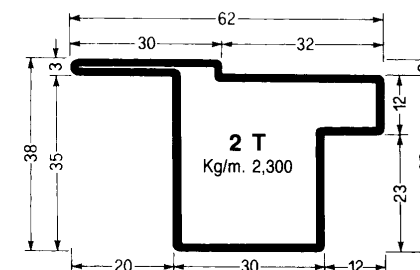
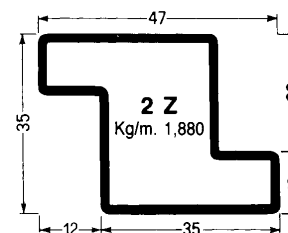
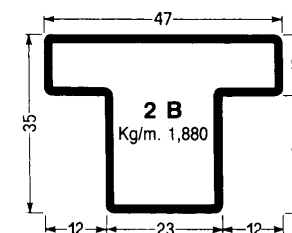
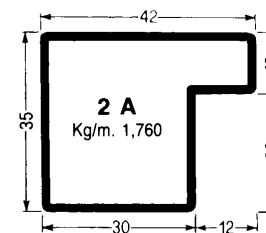
Ø ESTERNO mm	SPESSORE mm	PESO kg./mt.
48,3	2,0	2,36
48,3	2,5	2,91
48,3	3	3,46
60,3	2,0	2,97
60,3	2,5	3,67
60,3	3	4,38

Tubolari per serramenti

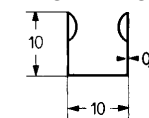
Spess. 1,5 mm

Tubes for windows and doors

Thickness 1.5 mm



FERMAVETRO A SCATTO
SNAP-FIT GLAZING BEADS



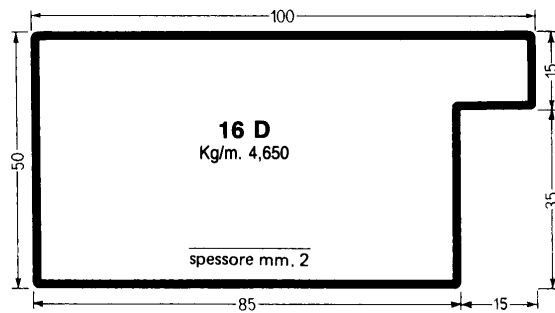
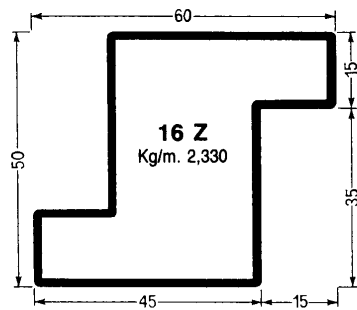
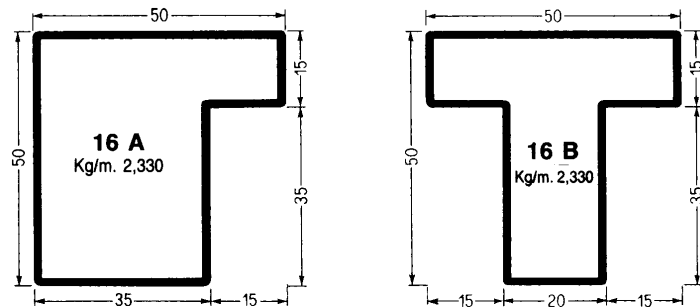
peso m Kg 0,203

Tubolari per portoni

Spess. 1,5 mm

Tubular for doorway

Thickness 1.5 mm

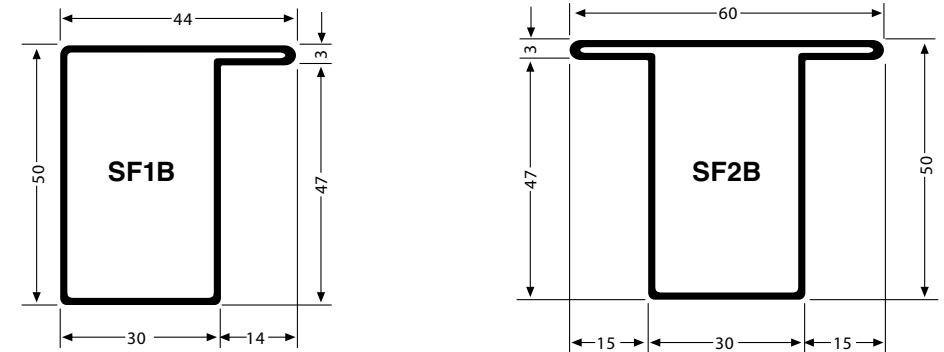


Tubolari per serramenti

Spess. 1,5 mm

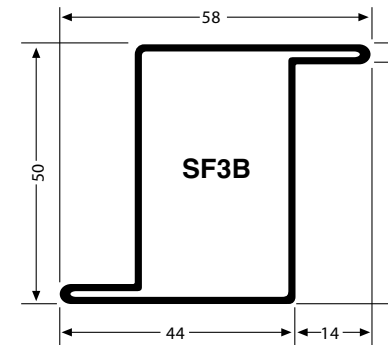
Tubes for windows and doors

Thickness 1.5 mm



kg/ml 2,15

kg/ml 2,52



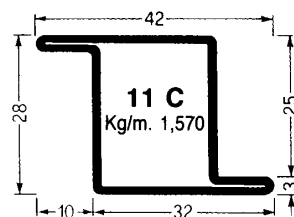
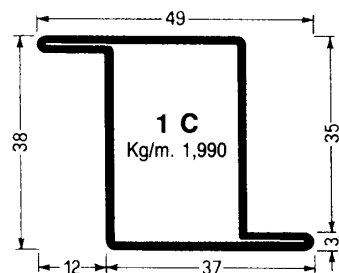
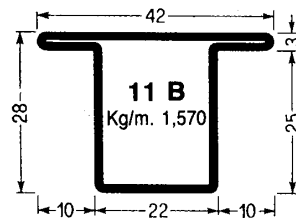
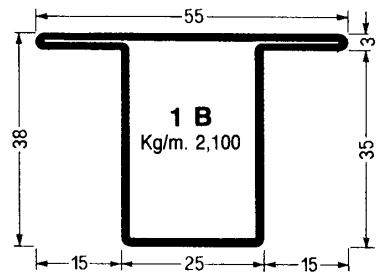
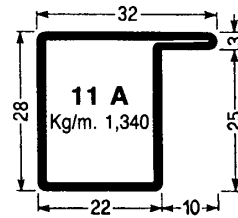
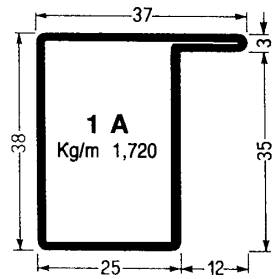
kg/ml 2,52

Tubolari per serramenti

Spess. 1,5 mm

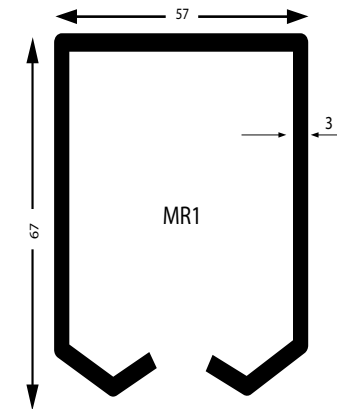
Tubes for windows and doors

Thickness 1.5 mm

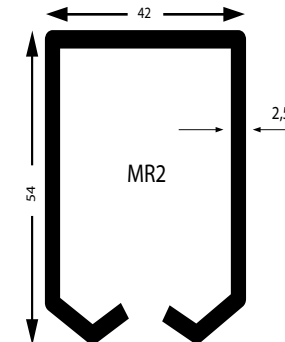


Monorotaie

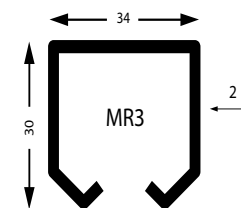
Monorails



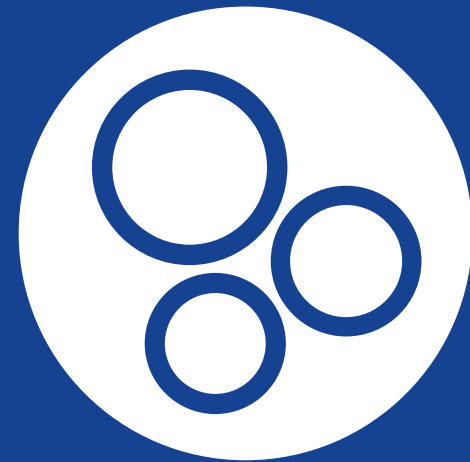
Grande • Large



Medio • Medium



Piccolo • Small



Tubi meccanici

Mechanical pipes

Tubi gas, antincendio e rivestiti

*Gas pipes, fireproof pipes
and coated pipes*

Tubi petrolchimici

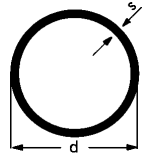
Petrochemical pipes

Tubo per applicazioni meccaniche

EN 10297-1 / EN 1021-1 / Qualità acciaio S355/E355 - J20/J2H

Tube for mechanical applications

EN 10297-1 / EN 1021-1 / Quality steel S355 / E355 - J20 / J2H



Diam. mm	Spessore in mm - Peso in Kg/m							
	6,3	7,1	8,0	8,8	10	12,5	14,2	16
42,4	5,6	6,2	6,8	7,3	8	9,2		
48,3	6,5	7,2	7,9	8,6	9,4	11		
51	6,9	7,7	8,4	9,2	10,1	11,9	12,9	
54	7,4	8,2	9	9,8	10,9	12,8	13,9	
57	7,9	8,8	9,6	10,5	11,6	13,7	15	16,2
60,3	8,4	9,3	10,3	11,2	12,4	14,7	16,1	17,5
63,5	8,9	9,9	10,9	11,9	13,2	15,7	17,3	18,7
67	9,4	10,5	11,6	12,6	14,1	16,8	18,5	20,1
70	9,9	11	12,2	13,3	14,8	17,7	19,5	21,3
76,1	10,9	12,1	13,4	14,6	16,3	19,6	21,7	23,7
82,5	11,9	13,2	14,6	16	17,9	21,6	23,9	26,2
88,9	12,9	14,4	15,9	17,4	19,5	23,6	26,2	28,8
95	13,8	15,4	17,2	18,7	21	25,4	28,3	31,2
101,6	14,9	16,6	18,4	20,1	22,6	27,5	30,6	33,8
108	15,8	17,7	19,6	21,5	24,2	29,4	32,8	36,3
114,3	16,8	18,8	20,9	22,9	25,7	31,4	35,1	38,8
121	17,8	19,9	22,3	24,3	27,4	33,4	37,4	41,4
127	18,8	21	23,4	25,7	28,9	35,3	39,5	43,8
133	19,8	22,1	24,6	27	30,3	37,1	41,6	46,2
139,7	20,8	23,3	25,9	28,4	32	39,2	43,9	48,8
146	21,7	24,3	27,2	29,8	33,5	41,2	46,2	51,3
152,4	22,8	25,5	28,4	31,2	35,1	43,1	48,4	53,8
159	23,8	26,6	29,6	32,6	36,7	45,2	50,7	56,4
165,1	24,7	27,7	31	33,9	38,2	47	52,8	58,8
168,3	25,3	28,3	31,5	34,6	39	48	54	60,1
177,8	26,7	30	33,4	36,7	41,4	51	57,3	63,8
193,7	29,2	32,8	36,5	40,1	45,3	55,9	62,9	70,1
203		34,3	38,5	42,1	47,6	58,7	66,1	73,8
219,1		37,2	41,5	45,6	51,6	63,7	71,8	80,1
229		38,8	43,6	47,8	54	66,7	75,2	84
244,5		41,7	46,5	51,1	57,8	71,5	80,6	90,2
254		43,2	48,5	53,2	60,2	74,4	84	93,9
273		46,7	52,1	57,3	64,9	80,3	90,6	101
298,5			57,1	62,9	71,1	88,2	99,6	111
305			58,5	64,3	72,7	90,2	102	114
323,9			62,1	68,4	77,4	96	108	121
355,6			68,6	75,3	85,2	106	120	134
406,4			78,6	86,3	97,8	121	137	154
419			81,1	89	101	125	142	159
457,2			88,6	97,3	110	137	155	174
508				108	123	153	173	194
558,8					135	168	191	214
609,6					148	184	208	234

Diam mm	Spessore in mm - Peso in Kg/m									
	17,5	20	22,2	25	28	30	35	40	45	
42,4										
48,3										
51										
54										
57										
60,3										
63,5										
67										
70	22,7	24,7								
76,1	25,3	27,7								
82,5	28,1	30,8	33,3	35,4						
88,9	30,8	34	36,8	39,4						
95	33,4	37	40,2	43,2						
101,6	36,3	40,2	43,9	47,2	50,8	53				
108	39,1	43,4	47,4	51,2	55,2	57,7				
114,3	41,8	46,5	50,9	55,1	59,6	62,4				
121	44,7	49,8	54,7	59,2	64,2	67,3	74,2			
127	47,3	52,8	58	62,9	68,4	71,8	79,4			
133	49,8	55,7	61,3	66,6	72,5	76,2	84,6	91,7		
139,7	52,7	59	65	70,7	77,1	81,2	90,4	98,3	105	
146	55,5	62,1	68,5	74,6	81,5	85,8	95,8	105	112	
152,4	58,2	65,3	72,1	78,5	85,9	90,6	101	111	119	
159	61,1	68,6	75,7	82,6	90,5	95,4	107	117	127	
165,1	63,7	71,6	78,2	86,4	94,9	102	113	123	133	142
168,3	65,1	73,1	80,9	88,3	96,9	102	115	127	137	
177,8	69,2	77,8	86,2	94,2	103	109	123	136	147	
193,7	76	85,7	95	104	114	121	137	152	165	
203	80,1	90,3	100	110	121	128	145	161	175	
219,1	87	98,2	109	120	132	140	159	177	193	
229	91,3	103	115	126	139	147	167	186	204	
244,5	98	111	123	135	149	159	181	202	221	
254	102	115	128	141	156	166	189	211	232	
273	110	125	139	153	169	180	205	230	253	
298,5	121	137	153	169	187	199	227	255	281	
305	124	141	157	173	191	203	233	261	289	
323,9	132	150	167	184	204	217	249	280	309	
355,6	146	166	185	204	226	241	277	311	345	
406,4	168	191	213	235	261	278	321	361	401	
419	173	197	220	243	270	288	331	374	415	
457,2	190	216	241	266	296	316	364	412	457	
508	212	241	269	298	331	354	408	462	514	
558,8	234	266	298	329	367	391	452	512	570	
609,6	256	291	326	360	402	429	496	562	627	

Tubi gas, antincendio e rivestiti EN10255 saldati e ss

Serie leggera

EN10255 Gas pipes, fireproof pipes and coated pipes - seamless and welded

Light series

Dimensioni						Peso kg/m			
ø Esterno			Spess.	Filettatura		Lisci		Filettati con manicotto	
Pollici	Dn	mm	mm	max	min	grezzi	zincati	grezzi	zincati
3/8	10	17,2	2,0	17,4	16,7	0,742	0,792	0,748	0,798
1/2	15	21,3	2,3	21,7	21,0	1,08	1,14	1,09	1,15
3/4	20	26,9	2,3	27,1	26,4	1,39	1,47	1,40	1,48
1	25	33,7	2,9	34,0	33,2	2,20	2,31	2,22	2,33
1 1/4	32	42,4	2,9	42,7	41,9	2,82	2,95	2,85	2,98
1 1/2	40	48,3	2,9	48,6	47,8	3,24	3,39	3,28	3,43
2	50	60,3	3,2	60,7	59,6	4,49	4,68	4,56	4,75
2 1/2	65	76,1	3,2	76,2	75,3	5,73	5,98	5,85	6,10
3	80	88,9	3,6	89,4	87,9	7,55	7,92	7,72	8,09
4	100	114,3	4,0	114,9	113,0	10,8	11,28	11,1	11,58

Tubi gas, antincendio e rivestiti EN10255 saldati e ss

Serie media

EN10255 Gas pipes, fireproof pipes and coated pipes - seamless and welded

Medium series

Dimensioni						Peso kg/m			
ø Esterno			Spess.	Filettatura		Lisci		Filettati con manicotto	
Pollici	Dn	mm	mm	max	min	grezzi	zincati	grezzi	zincati
3/8	10	17,2	2,3	17,5	16,7	0,839	0,889	0,845	0,895
1/2	15	21,3	2,6	21,8	21,0	1,21	1,27	1,22	1,28
3/4	20	26,9	2,6	27,3	26,5	1,56	1,64	1,57	1,65
1	25	33,7	3,2	34,2	33,3	2,41	2,51	2,43	2,53
1 1/4	32	42,4	3,2	42,9	42,0	3,10	3,23	3,13	3,26
1 1/2	40	48,3	3,2	48,8	47,9	3,56	3,71	3,60	3,75
2	50	60,3	3,6	60,8	59,7	5,03	5,22	5,10	5,29
2 1/2	65	76,1	3,6	76,6	75,3	6,42	6,67	6,54	6,79
3	80	88,9	4,0	89,5	88,0	8,36	8,73	8,53	8,9
4	100	114,3	4,5	115,0	113,1	12,2	12,68	12,5	12,98
5	125	139,7	5,0	140,8	138,5	16,6	17,21	17,1	17,65
6	150	165,1	5,0	166,5	163,9	19,8	20,53	20,4	21,12

Tubi gas, antincendio e rivestiti EN10255 saldati e ss

Serie pesante

EN10255 Gas pipes, fireproof pipes and coated pipes - seamless and welded

Heavy series

Dimensioni						Peso kg/m			
ø Esterno			Spess.	Filettatura		Lisci		Filettati con manicotto	
Pollici	Dn	mm	mm	max	min	grezzi	zincati	grezzi	zincati
3/8	10	17,2	2,9	17,5	16,7	1,02	-	1,03	-
1/2	15	21,3	3,2	21,8	21,0	1,44	1,50	1,45	1,51
3/4	20	26,9	3,2	27,3	26,5	1,87	1,95	1,88	1,96
1	25	33,7	4,0	34,2	33,3	2,93	3,03	2,95	3,05
1 1/4	32	42,4	4,0	42,9	42,0	3,79	3,92	3,82	3,95
1 1/2	40	48,3	4,0	48,8	47,9	4,37	4,52	4,41	4,56
2	50	60,3	4,5	60,8	59,7	6,19	6,38	6,26	6,45
2 1/2	65	76,1	4,5	76,6	75,3	7,93	8,18	8,05	8,29
3	80	88,9	5,0	89,5	88,0	10,3	10,67	10,5	10,87
4	100	114,3	5,4	115,0	113,1	14,5	14,98	14,8	15,28
5	125	139,7	5,4	140,8	138,5	17,9	18,51	18,4	19,01
6	150	165,1	5,4	166,5	163,9	21,3	22,02	21,9	22,62



Tubi petrolchimici senza saldatura

Categoria ASTM - ASME - API 5L

Petrochemical seamless pipes

Category ASTM - ASME - API 5L

D.E.		pessor mm.	Peso kg/mt	Design.	
poll.	mm.			mm.	kg/mt
3/8"	17,1	2,31	0,849	STD	40
		3,2	1,1	XS	80
1/2"	21,3	2,77	1,27	STD	40
		3,73	1,62	XS	80
		4,78	1,95		160
		7,47	2,55	XXS	
3/4"	26,7	2,87	1,69	STD	40
		3,91	2,2	XS	80
		5,56	2,9		160
		7,82	3,64	XXS	
1"	33,4	3,38	2,5	STD	40
		4,55	3,24	XS	80
		6,35	4,24		160
		9,09	5,45	XXS	
1" 1/4	42,2	3,56	3,39	STD	40
		4,85	4,47	XS	80
		6,35	5,61		160
		9,7	7,77	XXS	
1" 1/2	48,3	3,68	4,05	STD	40
		5,08	5,41	XS	80
		7,14	7,25		160
		10,15	9,56	XXS	
2"	60,3	3,91	5,44	STD	40
		5,54	7,48	XS	80
		8,74	11,11		160
		11,07	13,45	XXS	
2" 1/2	73	5,16	8,68	STD	40
		7,01	11,41	XS	80
		9,52	14,91		160
		14,02	20,41	XXS	

D.E.		pessor mm.	Peso kg/mt	design.	
poll.	mm.			mm.	kg/mt
3"	88,9	5,49	11,29	STD	40
		7,62	15,27	XS	80
		11,13	21,33		160
		15,24	26,67	XXS	
3" 1/2	101,6	5,74	13,57	STD	40
		8,08	18,63	XS	80
4"	114,3	6,02	16,07	STD	40
		8,56	22,31	XS	80
		11,13	28,3		120
		13,49	33,53		160
		17,12	41,02	XXS	
5"	141,3	6,55	21,78	STD	40
		9,52	30,95	XS	80
		12,7	40,28		120
		15,88	49,09		160
6"	168,3	19,05	57,42	XXS	
		7,11	28,26	STD	40
		10,97	42,56	XS	80
8"	219,1	14,27	54,2		120
		18,26	67,55		160
		21,95	79,18	XXS	
8"	219,1	6,35	33,31		20
		7,04	36,79		30
		8,18	42,53	STD	40
		10,31	53,09		60
		15,09	75,89		100
		18,26	90,43		120
		20,62	100,93		140
		22,22	107,87	XXS	
23,01	118,18		160		

Tubi petrolchimici senza saldatura

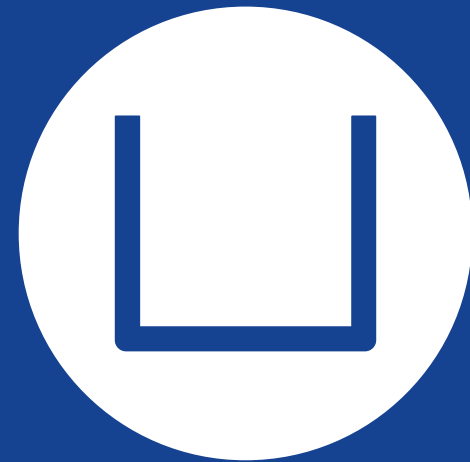
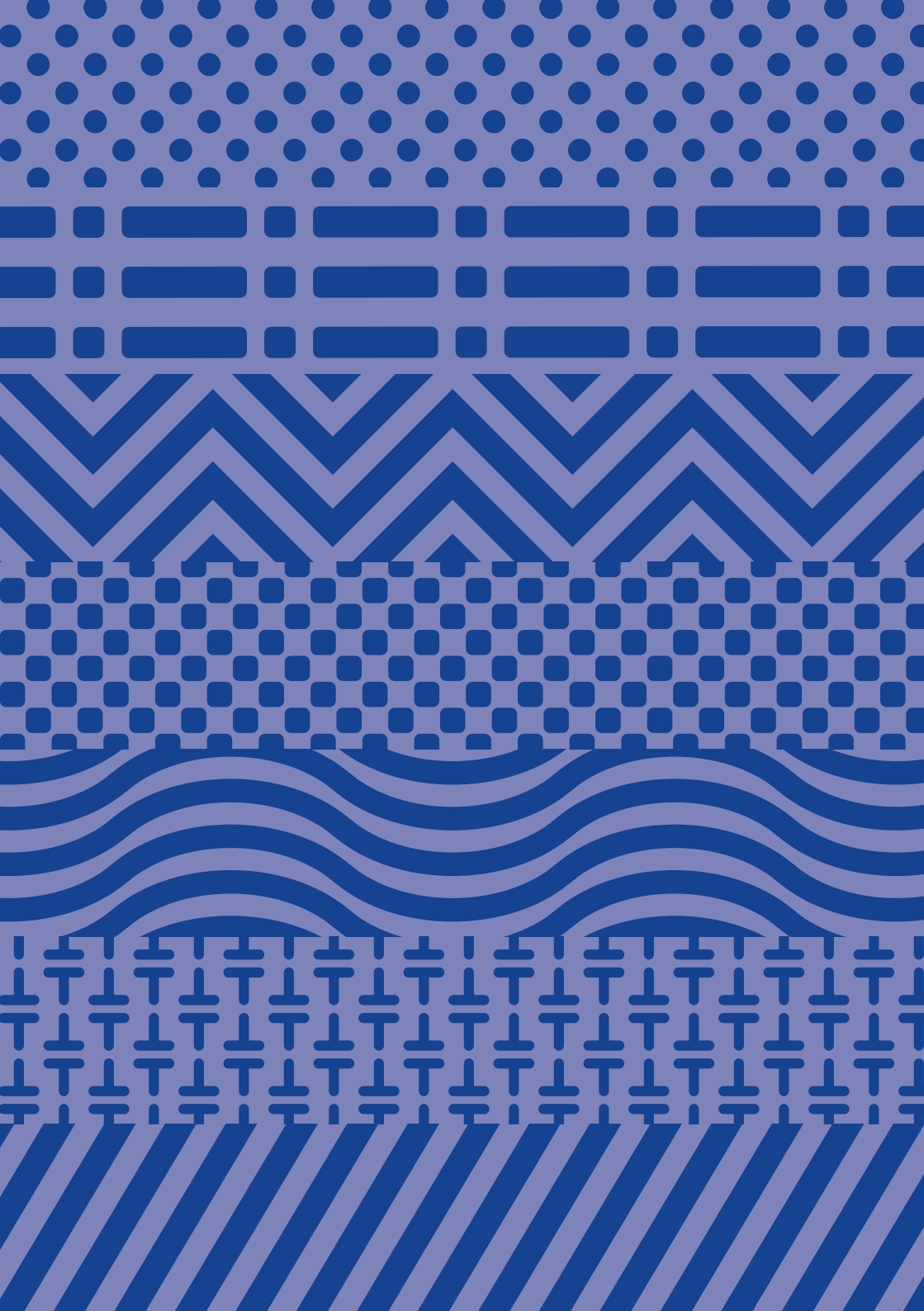
Categoria ASTM - ASME - API 5L

Petrochemical seamless pipes

Category ASTM - ASME - API 5L

D.E.		pessor mm.	Peso kg/mt	design.	
poll.	mm.			mm.	kg/mt
10"	273	6,35	41,77		20
		7,8	51		30
		9,27	60,29	STD	40
		12,7	81,54	XS	60
		15,09	95,97		80
		18,26	114,74		100
		21,44	132,85		120
		25,4	154,97	XXS	140
		28,58	172,11		160
12"	323,8	6,35	49,72		20
		8,38	65,2		30
		9,52	73,82	STD	
		10,31	79,72		40
		12,7	97,44	XS	
		14,27	108,96		60
		17,48	132,01		80
		21,44	159,67		100
14"	355,6	25,4	186,75	XXS	120
		28,58	207,87		140
		33,32	238,6		160
		6,35	54,68		10
		7,92	67,94		20
		9,52	81,28	STD	30
		11,13	94,49		40
		12,7	107,38	XS	
14"	355,6	15,09	126,68		60
		19,05	158,08		80
		23,83	194,9		100
		27,79	224,36		120
		31,75	253,32		140
		35,71	281,49		160

D.E.		pessor mm.	Peso kg/mt	design.	
poll.	mm.			mm.	kg/mt
16"	406,4	6,35	62,63		10
		7,92	77,86		20
		9,52	93,21	STD	30
		12,7	123,29	XS	40
		16,66	160,12		60
		21,44	203,48		80
		26,19	245,5		100
		30,96	286,33		120
		36,53	332,72		140
		40,49	364,94		160
18"	457	6,35	70,59		10
		7,92	87,79		20
		9,52	105,14	STD	
		11,13	122,36		30
		12,7	139,19	XS	
		14,27	155,91		40
		19,05	205,8		60
		23,83	254,59		80
20"	508	29,36	309,76		100
		34,92	363,33		120
		39,67	408,21		140
		45,24	459,18		160
		9,52	117,07	STD	20
		12,7	155,1	XS	30
		15,09	183,37		40
		20,62	247,85		60
20"	508	26,19	311,11		80
		32,54	381,46		100
		38,1	441,06		120
		44,45	507,63		140
		50,01	564,24		160



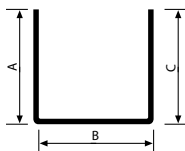
Profili aperti
Steel sections

Profili aperti - U - A lati uguali

Da lamiera piegata

Steel U-section - Equal angles

From folded sheet



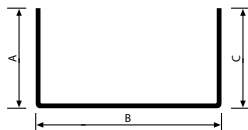
DIMENSIONE mm "a" x "b" x "c"	spessore mm				
	1,5	2	2,5	3	4
peso in Kg./mt.					
10 x 10 x 10	0,29				
12 x 12 x 12	0,36				
15 x 15 x 15	0,47	0,59			
20 x 20 x 20	0,65	0,83			
25 x 25 x 25	0,83	1,07	1,30	1,49	
30 x 30 x 30	1,00	1,31	1,60	1,87	
35 x 35 x 35	1,19	1,55	1,90	2,23	
40 x 40 x 40	1,37	1,79	2,20	2,59	3,33
45 x 45 x 45	1,55	2,07	2,50	2,95	3,81
50 x 50 x 50	1,73	2,28	2,80	3,31	4,29
60 x 60 x 60		2,76	3,40	4,04	5,25
70 x 70 x 70		3,23	4,00	4,76	6,21
80 x 80 x 80			4,60	5,48	7,11

Profili aperti - U - Ad ali uguali

Da lamiera piegata

Steel U-section - Equal flanges

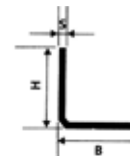
From folded sheet



DIMENSIONE mm "a" x "b" x "c"	spessore mm				
	1,5	2	2,5	3	4
peso in Kg./mt.					
10 x 20 x 10	0,41				
15 x 30 x 15	0,65	0,83	1,00		
20 x 40 x 20	0,89	1,15	1,40	1,63	
25 x 50 x 25	1,13	1,47	1,80	2,11	2,69
30 x 60 x 30	1,37	1,79	2,20	2,59	3,33
40 x 80 x 40	1,85	2,43	3,00	3,55	4,61
50 x 100 x 50		3,07	3,80	4,51	5,89
60 x 120 x 60		3,71	4,60	5,47	7,17
60 x 150 x 60		4,19	5,20	6,15	8,13
60 x 160 x 60		4,30	5,40	6,43	8,45
60 x 180 x 60		4,67	5,80	6,91	9,09
100 x 200 x 100				9,31	12,29

Angolari a lati uguali

Steel equal angles section



DIMENSIONE mm "a" x "b" x "c"	spessore mm							
	1,5	2	2,5	3	4	5	6	7
peso in Kg./mt.								
10X10	0,20							
15X15	0,31	0,40						
20X20	0,43	0,56	0,69					
25X25	0,55	0,72	0,90	1,03				
30X30	0,67	0,88	1,10	1,25				
35X35		1,03	1,30	1,53				
40X40		1,20	1,45	1,75				
45X45		1,35	1,69	2,00	2,63			
50X50		1,51	1,87	2,20	2,95	3,65		
60X60			2,27	2,70	3,50	4,40	5,22	
70X70				3,15	4,15	5,22	6,68	
80X80				3,65	4,76	6,75	7,16	
90X90				4,12	5,46	6,80	8,10	
100X100				4,60	6,00	7,40	8,85	10,22
120X120					7,34	9,00	10,70	12,40
150X150						11,40	13,55	15,70

Angolari a lati diseguali

Steel unequal angles section



DIMENSIONE mm "a" x "b" x "c"	spessore mm			
	1,5	2	2,5	3
peso in Kg./mt.				
10X20	0,33			
12x25	0,42	0,55		
15x25	0,45	0,59		
15x30	0,51	0,66	0,83	0,99
15x40		0,83	1,03	1,22
20x25		0,66	0,83	0,99
20x30		0,75	0,93	1,10
20x35		0,83	1,03	1,22
20x40		0,94	1,14	1,34
20x45		1,06	1,22	1,46
20x50		1,13	1,32	1,56
20x60		1,22	1,52	1,81
25x30		0,83	1,03	1,22
25x40		0,99	1,22	1,46
25x50		1,14	1,42	1,70
30x40		1,06	1,32	1,56
30x50		1,22	1,52	1,81
30x60			1,72	2,04
30x80				2,52
40x60				2,28
40x80				2,75
40x100				3,22



**Lamiere nere, decapate,
a freddo e zincate**

*Black, pickled, cold rolled,
galvanized sheet metal*

Lamiere da treno

Heavy plates

Lamiere bugnate

Embossed sheet metal

**Lamiere ondulate,
stirate e grecate**

Wavy, expanded, corrugated sheet metal

Rete tessuta ed elettrosaldata

Woven mesh and electro-welded mesh

Grigliati

Gratings

Lamiere nere, decapate, a freddo e zincate

Black, pickled, cold rolled, galvanized sheet metal

spessore mm	peso Kg/m ²	PESO AL FOGLIO				
		1000 x 2000	1250 x 2500	1500 x 3000	1500 x 6000	2000 x 6000
0,3	2,36	4,72				
0,35	2,75	5,51				
0,4	3,14	6,28				
0,45	3,53	7,06				
0,5	3,93	7,86				
0,6	4,71	9,42	14,7			
0,8	6,28	12,6	19,7	28,3		
1	7,85	15,7	24,5	35		
1,2	9,42	18,8	29,5	42		
1,5	11,8	23,6	36,7	53		
2	15,7	31,4	49	71		
2,5	19,6	39,3	61	88	176	
3	23,6	47,1	73	106	212	283
4	31,4	62,8	98	141	283	377
5	39,2	78,5	123	176	353	472
6	47,1	94,2	147	212	424	566
7	55	110	172	247	495	660
8	62,8	126	196	282	565	754
9	70,6	141	221	318	635	848
10	78,5	157	245	353	707	942

Lamiere da treno

Heavy plates

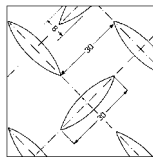
spessore mm	peso Kg/m ²
11	86,35
12	94,2
13	102,05
14	109,9
15	117,75
16	125,6
17	133,45
18	141,3
19	149,15
20	157
21	164,85
22	172,7
23	180,55
24	188,4
25	196,25
26	204,1
27	211,95
28	219,8
29	227,65

spessore mm	peso Kg/m ²
30	235,5
31	243,35
32	251,2
33	259,05
34	266,9
35	274,75
36	282,6
37	290,45
38	298,3
39	306,15
40	314
41	321,85
42	329,7
43	337,55
44	345,4
45	352,25
46	361,1
47	368,95
48	376,8

spessore mm	peso Kg/m ²
49	384,65
50	392,5
55	431,8
60	471
65	510,2
70	549,2
75	588,8
80	628
85	667,2
90	706,5
95	745,8
100	785
110	863
120	942

Lamiere bugnate

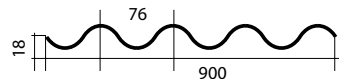
Embossed sheet metal



spessore mm	peso Kg/m ²	PESO AL FOGLIO		
		1 000 x 2 000	1 250 x 2 500	1 500 x 3 000
2,5	22,1	44,2	69,17	99,45
3	26,1	52,1	81,1	117
4	33,9	67,9	106	153
5	41,8	83,5	130	187
6	49,6	100	154	223
8	65,3	130	204	294
10	81,1	162	253	365
12	96,7	193	302	435
14	111	222	346	499

Lamiere ondulate, zincate o preverniciate

Galvanized, wavy or prepainted sheet metal



spessore mm	peso Kg/m ²	PESO AL FOGLIO		
		900 x 2000	900 x 2500	900 x 3000
0,3	2,85	5,7	7,13	8,55
0,35	3,15	6,3	7,88	9,45
0,4	3,5	7	8,75	10,5
0,5	4,3	8,6	10,75	12,9
0,6	5,1	10,2	12,75	15,3
0,8	6,7	13,4	16,75	20,1

Lamiere stirate

Expanded sheet metal

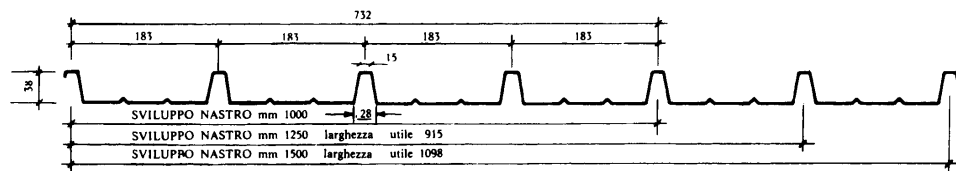


Lamiere grecate, zincate o preverniciate

Per copertura e pareti EGB 401/DS

Corrugated, galvanized or prepainted sheet metal

Roofing and walls EGB 401/DS



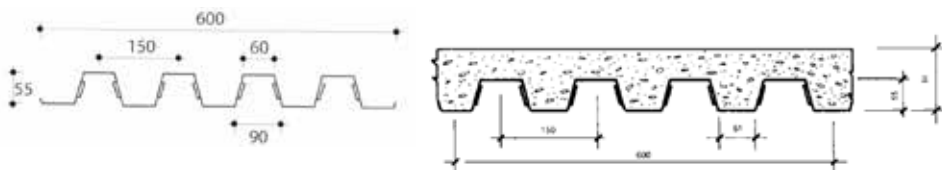
spessore mm		0,6	0,7	0,8	1	1,2
peso kg/m ²		6,42	7,49	8,57	10,72	12,86
peso kg./m t	1000	4,71	5,49	6,28	7,85	9,42
	1250	5,88	6,86	7,85	9,81	11,77
	1500	7,06	8,24	9,42	11,77	14,13

Lamiera grecata per solai

Collaboranti tipo 55/600

Corrugated sheet metal for floors

Uncooperative type 55/600

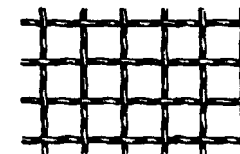


	MIN	MAX
Spessore mm	0,60	1,50
Lungh. mm	2000	12000

Spessore mm	0,6	0,7	0,8	0,9	1,00	1,25
Peso Kg/mq	7,85	9,15	10,46	11,77	13,80	16,35

Rete tessuta

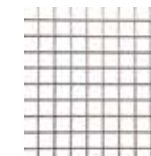
Woven mesh



dimensione della maglia mm	spessore filo mm												
	1,5	1,8	2	2,4	3	3,4	3,9	4,4	4,9	5,4	5,9	6,4	
	peso in kg./m ² (approssimativo)												
10 x 10	2,90	4,30											
12 x 12		3,70	4,50										
15 x 15		2,84	3,50	5,00									
20 x 20		2,13	2,62	3,77	5,95								
25 x 25		1,72	2,15	3,06	4,80	6,10	8,50						
30 x 30			1,67	2,53	3,97	5,10	6,55	8,55	10,57				
35 x 35				2,18	3,48	4,40	5,78	7,38	9,10	11,00			
40 x 40				1,92	3,00	3,86	5,10	6,46	8,11	9,74	10,74	12,30	
50 x 50				1,70	2,43	3,10	4,12	5,23	6,49	7,90	8,90	10,50	
60 x 60					2,04	2,62	3,45	4,44	5,43	6,66	7,90	9,30	

Rete elettrosaldata in pannelli

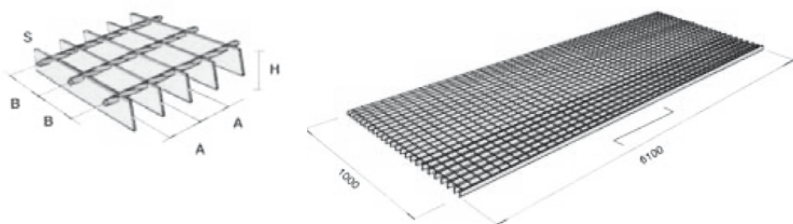
Panels of electro-welded mesh



maglia mm	diametro filo mm	dimensione pannelli mm	peso Kg/mq	peso Kg/pannello
30x30	3	1000x2000	3,19	6,38
30x30	3	1200x2400	3,22	9,28
40x40	3	1000x2000	2,42	4,83
40x40	3	1200x2400	2,42	6,96
40x40	4	1000x2000	4,45	8,9
40x40	4	1200x2400	4,45	12,81
50x50	3	1000x2000	1,93	3,86
50x50	3	1200x2400	1,93	5,57
50x50	4	1000x2000	3,56	7,12
50x50	4	1200x2400	3,56	10,25
50x50	5	1000x2000	5,68	11,36
50x50	5	1200x2400	5,68	16,36
100x100	3	1000x2000	0,97	1,93
100x100	3	1200x2400	0,97	2,78
100x100	4	2000x3000	1,78	10,68
100x100	5	2000x3000	2,84	17,04
100x100	6	2000x3000	4,15	24,88

Grigliato elettroforgiato

Electro-forged grating



GRIGLIATO ELETTROFORGIATO																
TIPOLOGIE E PESI IN PRODUZIONE																
Interassi maglia Pitch. mm. Ax B	Larghezza Nominale	H	S													
			20	25	30	30	30	40	40	50	50	60	70	80		
11 x 76	1000	GR	30,2	37,4												
			ZN	32,4	39,6											
15 x 76	1000	GR	22,7	28,4	42,0	33,7	49,9	66,3	65,7		80,5	107,7	128,7	149,8	170,8	
			ZN	24,4	31,5	45,1	37,4	53,6	70,8	70,5		85,3	111,7	133,4	155,1	176,9
17 x 76	1000	GR	24,8			29,4	44,4									
			ZN		26,6		31,5	46,6								
22 x 76	1000	GR	20,2	29,2	23,8	34,7	47,3	46,2	61,8		76,4	90,9	105,4			
			ZN	22,8	31,8	26,8	37,7	50,5	49,9	66,0		81,5	96,9	112,4		
25 x 25	1000	GR	20,0	30,2	25,4	35,0										
			ZN		21,3	31,6	27,0	36,6								
25 x 76	1000	GR	17,4	26,2	21,1	31,0	41,0	41,1	55,0		67,8	80,6	93,5	106,3		
			ZN	18,5	28,6	22,7	33,8	44,3	44,8	59,2		73,0	86,8	100,6	110,1	
30 x 50	1000	GR		23,3		27,3	36,14					59,3	70,0	80,7		
			ZN		25,7		30,1	39,3	39,7	52,7		64,4	76,0	87,7		
30 x 100	1000	GR		22,1		26,1	34,2	34,2	47,2		56,5	67,2	78,0			
			ZN		24,0		28,8	37,2	37,7	52,0		61,4	73,1	84,7		
34 x 38	1000	GR		16,0	21,9	18,4	25,5	33,5	32,5	42,9						
			ZN		18,2	24,1	21,0	28,0	36,5	35,9	46,8					
34 x 76	1000	GR	13,9	19,8	16,3	23,4	30,4	30,4	40,6		51,3	60,8	70,3			
			ZN	16,0	21,9	18,8	25,8	33,3	33,7	45,6		56,0	66,4	76,8		
43 x 44	1894	GR	12,4	17,1	14,3	19,9			25,5							
			ZN	13,5	18,2	15,5	21,1			27,1						
63 x 66	1515	GR	8,5	11,7	9,8	13,6	17,5	17,5								
			ZN	9,2	12,5	10,6	14,6	19,8	18,7							
63 x 132	1515	GR	7,5	10,7	8,8	12,7	17,2	16,6								
			ZN	8,2	11,5	9,6	13,6	18,2	17,7							
126 x 132	1893	GR		5,8												
			ZN		6,2											
Venus	1584	GR		14,5												
			ZN		15,8											

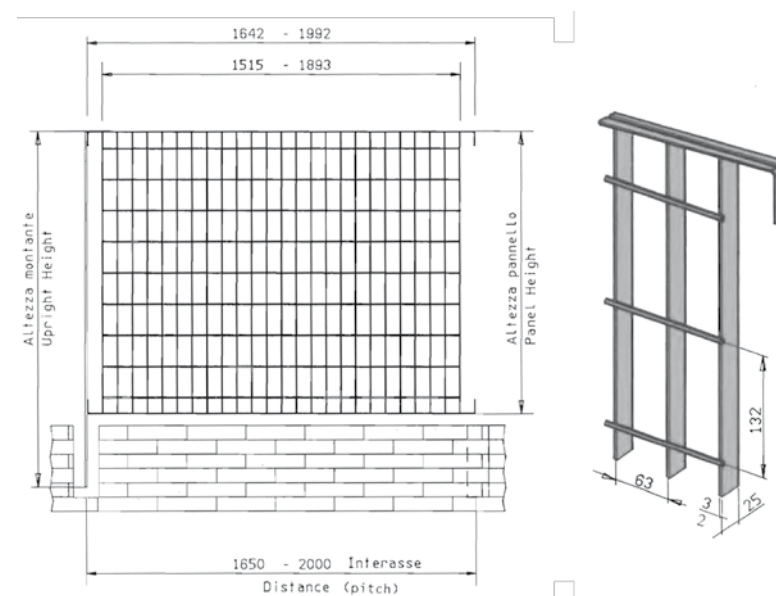
I dati numerici sopra citati, devono intendersi al netto delle tolleranze.

GR = peso del grigliato grezzo non bordato / weight of raw and unbanded gratings

ZN = peso del grigliato in pannelli bordati e zincati da mm. 1000x1000 / weight of galvanized and banded panels 1000x1000 mm.

Pannelli per recinzione in grigliato zincato

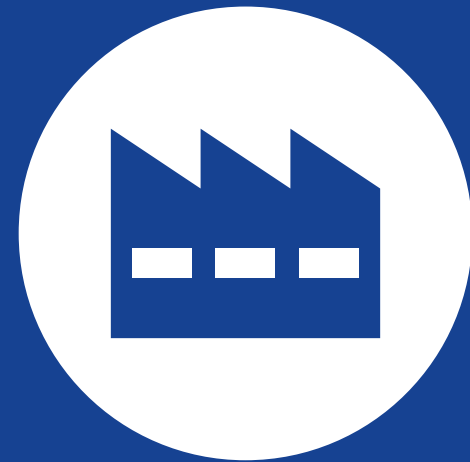
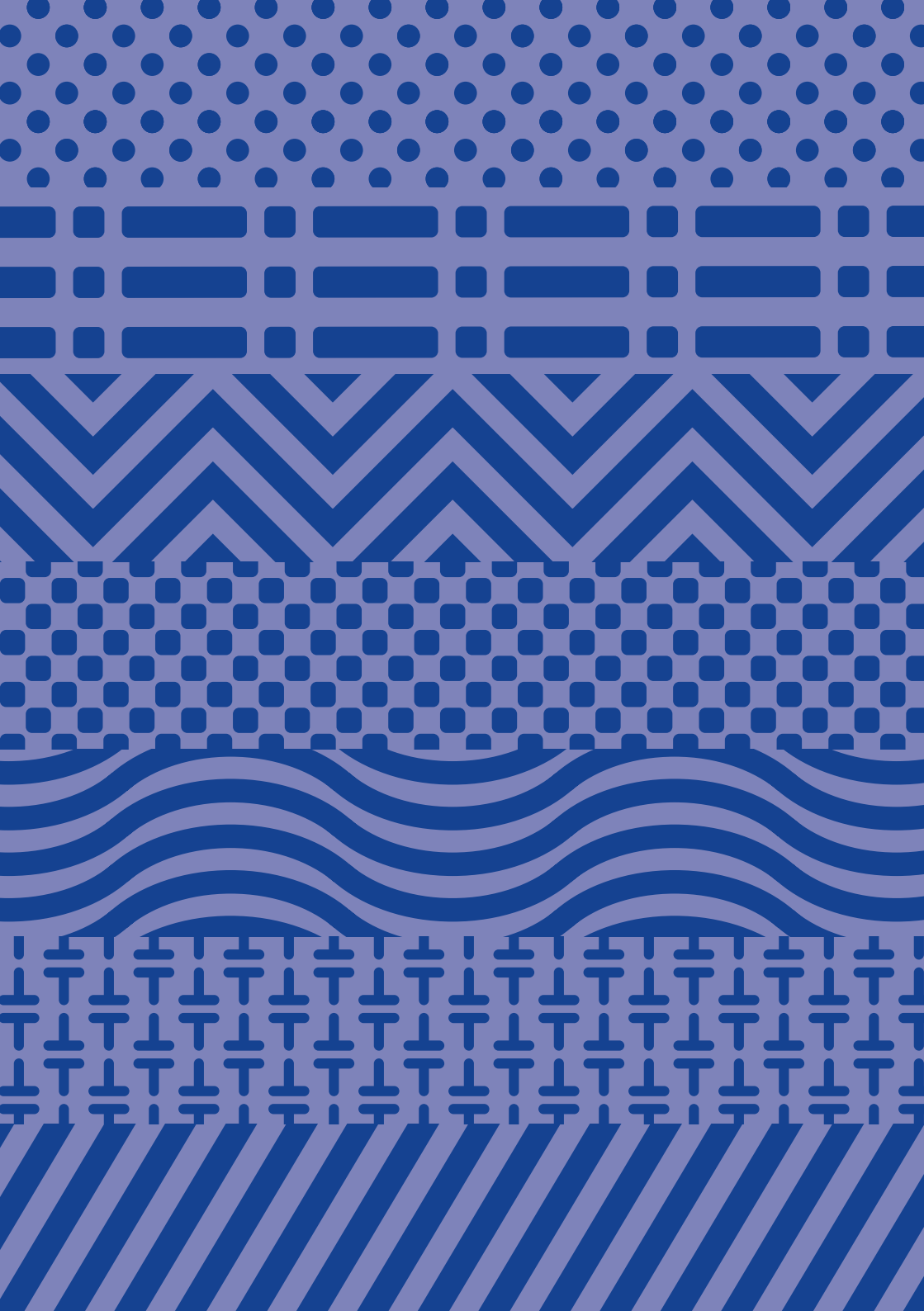
Fencing panels of galvanised grating



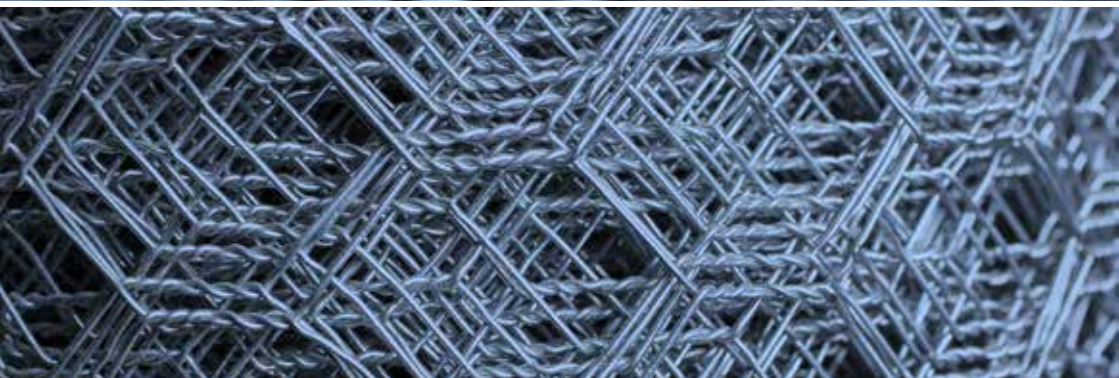
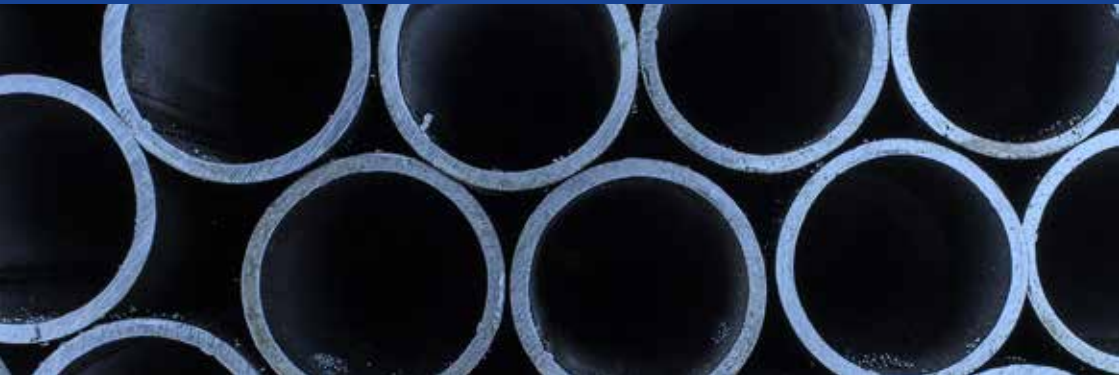
Grigliato elettroforgiato 25x2-63x132

Electro-forged grating 25x2-63x132

Pannello 1995 - Interasse 2000				Piantana		Punti di fiss.	
Altezza mm	Profilo verticale mm	Peso kg/m2	Peso kg/m2	Sezione mm	Lunghezza mm	Peso kg/cad	n°
925	25x2	9,5	12,7	60x7	1025	4,2	2
1200	25x2	9,1	12,3	60x7	1300	5,2	2
1320	25x2	8,9	12,1	60x7	1420	5,7	2
1560	25x2	8,8	12	60x7	1560	6,1	2
1720	25x2	8,6	11,8	60x7	1820	7	2
1980	25x2	8,4	11,7	60x7	2080	8,2	2



L'azienda
The company



La nostra storia

Our history

Forte di un'esperienza maturata già a partire dagli anni '70 nel campo dei rottami in ferro, la Fratubi Srl opera dal 1982 ad Ancona. L'attività dell'azienda consiste nel commercio di prodotti siderurgici, sia al dettaglio sia all'ingrosso, in particolare tubi in ferro, profilati in ferro, lamiere grecate, lamiere zincate, carpenteria metallica e molti altri prodotti del settore siderurgico e non solo. Grazie ad una sapiente gestione ed ai risultati ottenuti, nel corso del tempo abbiamo stretto accordi con grandi tubifici, ferriere e con importatori di tutto il mondo e questo ci permette da anni di poter servire al meglio piccole, medie e grandi aziende sia del territorio marchigiano sia del resto d'Italia ed Europa.

La nostra società è partner di importanti aziende municipalizzate del territorio, di imprese edili costruttrici di grandi opere pubbliche e private, di importanti cantieri navali, di evolute aziende di stampaggio dell'automotive e di piccole e medie imprese a cui offriamo l'alta qualità di servizio che ci contraddistingue. La nostra mission è offrire un servizio di qualità, professionale e puntuale a tutti i nostri clienti, partecipando anche ai tavoli di progettazione, per offrire supporto tecnico nell'individuazione dei prodotti più adatti al manufatto da realizzare. La nostra esperienza ci permette di acquisire commesse di prodotti semilavorati e non da importanti aziende del territorio nazionale e internazionale. Attraverso innovative ed efficienti realtà artigiane locali da noi selezionate, siamo in grado di offrire particolari lavorazioni su richiesta del cliente rendendoci un interlocutore strategico per l'intera catena del valore. Tra i vari attestati di qualità che ci sono stati riconosciuti ci fa piacere ricordare il premio **Mercurio d'Oro** che è stato consegnato al sig. Pietro Fracassa, fondatore dell'azienda, come riconoscimento per la correttezza commerciale, lo spirito imprenditoriale e la serietà professionale dimostrata. Anche da questo nasce il nostro slogan: **Fratubi, un partner di ferro.**

Starting its activities in the iron field in 1970s, Fratubi Srl formally operates in Ancona since 1982. The activity of the company consists in the retail and wholesale trade of iron and steel products such as steel tubes and sections, corrugated sheet metal, zinc sheets, metallic carpentry and many other items typical of this field. The whole range of our products and services comply the European quality certifications. Thanks to a skillful management of procedures and highly positive feedbacks on our activity, Fratubi is currently able to serve small, medium, large enterprises, pipe manufactures, ironworks and importers located in the territory of Marche region and in the rest of Europe.

Fratubi works in partnership with important municipal enterprises present locally, as well as with construction companies in the private and public sector, shipyards, advanced automotive stamping companies, small and medium enterprises to which we offer our higher level of services. Our mission is to provide our customers with professional and high quality services. In order to achieve this goal, Fratubi offers its technical support to develop new products by identifying the most suitable commodities necessary to the realisation of the specific item. Our company acquires commissioned orders of both semi-finished and non semi-finished products from important local and international companies.

*In cooperation with innovative and efficient craftsmanship enterprises locally present, we offer tailor-made manufactured items based on clients specific needs. Therefore we have become a trustworthy partner of the entire value chain. As proof of this, Fratubi was awarded with **Mercurio d'Oro** - assigned to Pietro Fracassa, founder of the company -, which acknowledges the proven commercial fairness of our activities, the entrepreneurial spirit and professional reliability of the company. That is why our motto is: **Fratubi, an iron alliance.***

I tuoi progetti, la nostra passione.

Your project, our passion.



I nostri fattori di successo

Our strengths



Coraggio · *Courage*



Volontà · *Will*



Diligenza · *Diligence*



Perseveranza · *Perseverance*



Ambizione · *Ambition*

FRATUBI

PRODOTTI SIDERURGICI



1982  2017

XXXV

ANNIVERSARIO



Azienda associata CNA Ancona
Company associated CNA Ancona

FRATUBI S.r.l.

Via Einaudi 24/A
Zona porto di Ancona
Italia - 60125 Ancona

telefono +39 071 200 373
fax +39 071 207 38 60
commerciale@fratubi.it
export@fratubi.it

Part. IVA/Cod. Fisc. 00928860428
REA AN-99228
Cap. Soc. € 100.000,00 i.v.

www.fratubi.it

I tuoi progetti, la nostra passione.

Your project, our passion.

Le nostre sponsorizzazioni

Our sponsorship

Cus Ancona Rugby
Fondazione Il Samaritano Onlus

