



WELDED TUBES

EN • IT

 **MARCEGAGLIA**
CARBON STEEL

CARBON STEEL WELDED TUBES

TUBI SALDATI IN ACCIAIO AL CARBONIO

DIMENSIONAL RANGE - GAMMA DIMENSIONALE

MIN. OUTSIDE DIAMETER - DIAMETRO ESTERNO MIN.	8 mm
MAX. OUTSIDE DIAMETER - DIAMETRO ESTERNO MAX.	406,4 mm
MIN. THICKNESS - SPESSORE MIN.	0,3 mm
MAX. THICKNESS - SPESSORE MAX.	16 mm

After first transformation, within its controlled value chain, Marcegaglia Carbon Steel develops the world's widest range of carbon steel welded tubes, thanks to 150 processing lines. The production program of Marcegaglia Carbon Steel tubes from hot-rolled, cold-rolled and galvanized strip covers a wide range of applications, guaranteeing specific suitability for subsequent processing.

Dalla prima trasformazione, nell'ambito della propria filiera produttiva controllata, Marcegaglia Carbon Steel ricava la gamma di tubi saldati in acciaio al carbonio più ampia al mondo, con 150 tubifici. La produzione Marcegaglia Carbon Steel di tubi ricavati da nastro laminato a caldo, a freddo e zincato copre una vasta gamma di impieghi, garantendo idoneità specifiche a successive rilavorazioni.

MAIN MANUFACTURING STANDARDS
PRINCIPALI NORME DI FABBRICAZIONE

MANUFACTURING STANDARD Norma di fabbricazione	PRODUCT DESIGNATION Designazione prodotto	TREATMENT Tipologie di trattamento	GRADE* Qualità	
				SURFACE CONDITIONS Condizioni superficiali
EN 10305-3	Round and shaped welded and cold sized steel tubes for precision applications <i>Tubi di acciaio tondi e speciali, saldati e calibrati a freddo per impieghi di precisione</i>	+CR1 Welded and sized <i>Saldato e calibrato a freddo</i> +CR2 Welded and sized <i>Saldato e calibrato a freddo</i> +A Annealed - Ricotto +N Normalized <i>Normalizzato</i>	E155, E190 E195, E220 E235, E260 E275, E320 E355, E370 E420, E460 E500, E550 E600, E700 E780, E980 <i>(Marcegaglia Standards)</i>	S1 From hot-rolled strip, black <i>Da nastro laminato a caldo nero</i> S2 From hot-rolled strip, pickled <i>Da nastro laminato a caldo decapato</i> S3 From cold-rolled strip <i>Da nastro laminato a freddo</i> S4 From coated strip <i>Da nastro rivestito secondo condizioni stabilite</i>
EN 10305-5	Square and rectangular welded and cold sized steel tubes for precision applications <i>Tubi di acciaio di sezione quadrata e rettangolare, saldati e calibrati a freddo per impieghi di precisione</i>			
EN 10219	Cold formed welded structural tubes (CE homologation) <i>Tubi saldati formati a freddo per impieghi strutturali (omologazione CE)</i>		S235JRH, S275J0H S275J2H, S355J0H S355J2H, S355MH S420MH, S460MH	
EN 10210-1	Structural hollow sections of non-alloy and fine grain steels, hot finished or cold formed and heat treated <i>Profilati cavi di acciai non legati e a grano fine per impieghi strutturali, finiti a caldo o formati a freddo con trattamenti termici</i>	Heat treatments <i>Trattamenti termici</i>	S235JRH, S275J0H S275J2H, S355J0H S355J2H, S335K2H S275NH, S355NH S420NH, S460NH	
				STEEL QUALITY Qualità di acciaio
EN 10217-1	Tubes for pressure purposes, for use at room temperature <i>Tubi per impieghi a pressione, per utilizzi a temperature ambiente</i>	Heat treatments upon request <i>Trattamenti termici su richiesta</i>	P195 P235 P265	TR1 TR2 TR1 TR2 TR1 TR2
EN 10217-2	Tubes for pressure purposes, for use at high temperatures <i>Tubi per impieghi a pressione, per utilizzi a temperature elevate</i>		P195GH P235GH P265GH	TEST CATEGORY <i>Categoria di test</i> TC1 TC2
EN 10208-1	Steel pipes for pipelines for combustible fluids <i>Tubi per condotte di fluidi combustibili</i>		L235GA L290GA L360GA	
EN 10224	Tubes for the conveyance of water and other aqueous liquids <i>Tubi per il convogliamento di acqua e altri liquidi acquosi</i>		L235 L275 L355	
EN 10255	Tubes suitable for welding and threading <i>Tubi adatti alla saldatura e alla filettatura</i>	Heat treatments upon request <i>Trattamenti termici su richiesta</i>	S195T	
EN 10296	Welded circular steel tubes for mechanical and general engineering purposes <i>Tubi d'acciaio circolari saldati per applicazioni meccaniche e di ingegneria generale</i>		E155, E190 E195, E220 E235, E260 E275, E320 E355, E370	

(*) Upon request: supply of grades not included in the above mentioned standards - Su richiesta si forniscono anche qualità differenti dalla norma

Supply conditions - Condizioni di fornitura

- Dimensional tolerances according to manufacturing standard - Tolleranze dimensionali secondo le norme di fabbricazione
- Special tolerances upon request *Tolleranze speciali su richiesta*
- Control documents 2.1, 2.2, 3.1, 3.2 according to EN 10204 and specific norm requirements
Documenti di controllo 2.1, 2.2, 3.1, 3.2 secondo norma EN 10204 e indicazione specifiche di ciascuna norma



MANUFACTURING STANDARD Norma di fabbricazione	PRODUCT DESIGNATION Designazione prodotto	GRADE* Qualità	MANUFACTURING STANDARD Norma di fabbricazione	PRODUCT DESIGNATION Designazione prodotto	GRADE* Qualità
ASTM A53 A53M	Black and zinc-coated, welded and seamless tubes for structural steel or for low-pressure plumbing. <i>Tubi neri, zincati con e senza saldatura per impieghi strutturali o per impianti idraulici a bassa pressione</i>	A, B	API 5CT	Steel pipes for use as casing or tubing for wells - OCTG casing and tubing <i>Tubi per impianti di perforazione ed estrazione del petrolio – tubi OCTG</i>	J55
ASTM A178 A178M	Electric-resistance-welded carbon steel tubes and carbon-manganese steel boiler and superheater tubes <i>Tubi in acciaio al carbonio saldati a resistenza elettrica e tubi in acciaio al manganese e surriscaldatori in acciaio al carbonio</i>	A, C	API 5L	Welded steel pipes for use in pipelines transportation systems in petroleum and natural gas industries <i>Tubi saldati per trasporto di liquidi nei settori petrolifero e di gas naturale</i>	X52
ASTM A500	Cold-formed welded and seamless carbon steel structural tubing in rounds and shapes <i>Tubi strutturali saldati a freddo e senza saldatura in acciaio al carbonio in forme rotonde e in altre forme</i>	B, C			

OPTIONAL PROCESSING

Lavorazioni opzionali

Suitability for subsequent galvanizing - Specifica idoneità alla zincabilità a caldo

Complete normalization or weld area normalization - Normalizzazione completa o della sola zona di saldatura

Additional heat treatments - Trattamenti termici aggiuntivi

Weld seam removing - Scordonatura interna

Special end finishing - Finiture speciali delle estremità

Cut to length - Taglio a misura

Customer defined marking - Marcature alternative

Restricted tolerances - Tolleranze ridotte rispetto la norma

Welding position - Posizione della saldatura

Surface roughness measurement - Misurazione della rugosità superficiale

Delivery with no corrosion protection - Consegne senza protettivi anticorrosivi

Specific corrosion protection - Protezione anticorrosiva specifica

Specific packaging method - Metodo di imballo specifico

Unit testing composed of tubes from a single casting - Unità di collaudo composta da tubi provenienti da una unica colata

Hot galvanization - Zincatura a caldo

STANDARD LENGTHS

Lunghezze standard

Pipes are supplied in 6000 and 12000 mm lengths (tolerances ±50 mm) unless otherwise specified in order

I tubi vengono forniti, salvo accordi diversi all’ordine, in barre commerciali da mm 6000 e 12000 (tolleranza ±50 mm)

PRECISION TUBES
TUBI DI PRECISIONE

Marcegaglia is able to supply the widest offer in the world of **welded and cold sized steel tubes for precision** applications EN 10305-3 and EN 10305-5, to meet the needs of each market segment.

With great versatility and flexibility, Marcegaglia precision tubes allow to respond to the needs of specific uses such as radiators, winding cores, greenhouses, windows, fences, furnishings, sport equipments, automotive, mechanical industry and many others.

The range is divided into round, square, rectangular, oval, elliptical, triangular and semi-oval tubes and is completed by a very wide range of special shapes, with the possibility of customizing on customer needs.

Marcegaglia è in grado di fornire la più ampia offerta al mondo di **tubi d'acciaio saldati e calibrati a freddo per impieghi di precisione** EN 10305-3 e EN 10305-5, per soddisfare le esigenze di ogni segmento di mercato.

Con grande versatilità e flessibilità, i tubi di precisione Marcegaglia consentono di interpretare e rispondere alle necessità di specifici utilizzi quali radiatori, rullistica, serre, serramenti, recinzioni, arredamento, attrezzature sportive, automotive, industria meccanica e molti altri.

La gamma si articola in tubi tondi, quadrati, rettangolari, ovali, ellittici, triangolari e semiovali ed è completata da un amplissimo sagomario di forme speciali, con la possibilità di customizzazione su esigenze del cliente.

EN 10305-3 S1, S2, S3, S4



DIMENSIONAL RANGE - GAMMA DIMENSIONALE

MIN. OUTSIDE DIAMETER - DIAMETRO ESTERNO MIN. 8 mm
MAX. OUTSIDE DIAMETER - DIAMETRO ESTERNO MAX. 406,4 mm

MIN. THICKNESS - SPESSORE MIN. 0,3 mm
MAX. THICKNESS - SPESSORE MAX. 16 mm

MANUFACTURING STANDARD Norma di fabbricazione	PRODUCT DESIGNATION Designazione prodotto	TREATMENT Tipologie di trattamento	GRADE* Qualità	SURFACE CONDITIONS Condizioni superficiali
EN 10305-3	Round and shaped welded and cold sized steel tubes for precision applications Tubi di acciaio tondi e speciali, saldati e calibrati a freddo per impieghi di precisione	+CR1 Welded and sized Saldato e calibrato a freddo +CR2 Welded and sized Saldato e calibrato a freddo +A Annealed - Ricotto +N Normalized Normalizzato	E155, E190 E195, E220 E235, E260 E275, E320 E355, E370 E420, E460 E500, E550 E600, E700 E780, E980 (Marcegaglia Standards)	S1 From hot-rolled strip, black Da nastro laminato a caldo nero S2 From hot-rolled strip, pickled Da nastro laminato a caldo decapato S3 From cold-rolled strip Da nastro laminato a freddo S4 From coated strip Da nastro rivestito secondo condizioni stabilite
EN 10305-5	Square and rectangular welded and cold sized steel tubes for precision applications Tubi di acciaio di sezione quadrata e rettangolare, saldati e calibrati a freddo per impieghi di precisione			

Steel radiators are a key element for furnitures, since they can be manufactured in different shapes and in many types. The most used are standard multi-column, plate, lamellar, up to tubular towel dryers. Steel radiators are light and space-saving compared to traditional cast iron ones, they are characterized by a refined aesthetic, to sometimes become real design elements integrated into the furniture.

*I **radiatori in acciaio** sono un elemento chiave per il settore dell’arredo e possono essere realizzati in forme diverse e in varie tipologie. Le più utilizzate sono standard multicolonne, a piastra, a lamelle, fino agli scaldasalviette tubolari. I radiatori in acciaio sono leggeri e poco ingombranti rispetto ai tradizionali realizzati in ghisa, sono caratterizzati da un’estetica raffinata, per diventare a volte veri e propri elementi di design integrati nell’arredamento.*



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EN 10305-3	Round and shaped welded and cold sized steel tubes for precision applications <i>Tubi di acciaio tondi e speciali, saldati e calibrati a freddo per impieghi di precisione</i>	+CR2 Welded and sized <i>Saldato e calibrato a freddo</i>	E190 E220 E260	S3 From cold-rolled strip <i>Da nastro laminato a freddo</i>

MOST REQUESTED SIZES
MISURE PIÙ RICHIESTE

E190

				
diameter	thickness			
	0,9	1	1,1	1,2
22	0,468	0,518	0,567	0,615
23	0,490	0,542	0,594	0,645
25	0,535	0,592	0,648	0,704

			
external dimensions		external dimensions	
A x B	1,5	A x B	1,5
50 x 10	1,270	40 x 30	1,425
70 x 11	1,795		

E220

					
diameter mm	thickness				
	0,8	0,9	1	1,1	1,2
22	0,418	0,468	0,518	0,567	0,615
23	0,438	0,490	0,542	0,594	0,645
25	0,477	0,535	0,592	0,648	0,704

					
external dimensions		thickness	external dimensions		thickness
A x B	1,4	1,5	A x B	1,4	1,5
50 x 10	1,150	1,270	40 x 30	1,287	1,425
70 x 11	1,625	1,795			

E260

				
diameter	thickness			
	0,9	1	1,1	1,2
22	0,468	0,518	0,567	0,615
23	0,490	0,542	0,594	0,645
25	0,535	0,592	0,648	0,704

					
external dimensions		thickness	external dimensions		thickness
A x B	1,4	1,5	A x B	1,4	1,5
50 x 10	1,150	1,270	40 x 30	1,287	1,425
70 x 11	1,625	1,795			

- CONSTANT QUALITY
- SURFACE QUALITY SUITABLE FOR CHROME PLATING AND PAINTING
- GUARANTEED STRAIGHTNESS
- LENGTH 6,000 MM OR MULTIPLES
- NDT NON-DESTRUCTIVE TESTING

- QUALITÀ COSTANTE
- QUALITÀ SUPERFICIALE ATTA ALLA CROMATURA E VERNICIATURA
- RETTILINEITÀ GARANTITA
- LUNGHEZZA 6.000 MM O MULTIPLI
- TEST CND CONTROLLI NON DISTRUTTIVI

WINDING CORE PRECISION TUBES
TUBI DI PRECISIONE PER LA RULLISTICA

EN 10305-3 S1, S2, S3, S4

Rolling for industrial **handling** and **automation** is of great importance in many sectors: the use of conveyor belts and winders allows an increase in production and a better quality of the production environment. Furthermore, the growing demand for consumer products, required by the development of online commerce, ask logistics companies to reply more and more promptly.

La **rullistica** per **movimentazione** e **automazione** industriale è di grande importanza in molti settori: l'impiego di nastri trasportatori e avvolgitori consente crescita e migliore qualità dell'ambiente produttivo. Inoltre, la crescente domanda di prodotti al consumo, determinata dallo sviluppo del commercio online, richiede alle aziende di logistica risposte sempre più tempestive.

MANUFACTURING STANDARD <i>Norma di fabbricazione</i>	PRODUCT DESIGNATION <i>Designazione prodotto</i>	GRADE <i>Qualità</i>	SURFACE CONDITIONS <i>Condizioni superficiali</i>
EN 10305-3	Round and shaped welded and cold sized steel tubes for precision applications <i>Tubi di acciaio tondi e speciali, saldati e calibrati a freddo per impieghi di precisione</i>	E235 + CR1	S1 From hot-rolled strip, black <i>Da nastro laminato a caldo nero</i> S2 From hot-rolled strip, pickled <i>Da nastro laminato a caldo decapato</i> S3 From cold-rolled strip <i>Da nastro laminato a freddo</i> S4 From coated strip <i>Da nastro rivestito secondo condizioni stabilite</i>

MOST REQUESTED SIZES EN 10305-3 S1
MISURE PIÙ RICHIESTE DAL SETTORE EN 10305-3 S1

diameter/ diametro mm	89	108	133	159
thickness/ spessore mm	3	3,5	4	4,5

MOST REQUESTED SIZES EN 10305-3 S2 - S3 - S4
MISURE PIÙ RICHIESTE DAL SETTORE

diameter/ diametro mm	20	25	27	30	32	38	40	50	54	60	63	65	70	76	80	89
thickness/ spessore mm	1,5	2	3	3	1,5/2	3	1,5/2	1,5/2	1,5	1,5/2	2,5	1,5	2/3	2/3	1,5 - 3	2/3

ROLLERS FOR MATERIAL HANDLING
RULLI PER TRASPORTO MATERIALI SFUSI

Weight and resistant rollers for materials handling in sugar factories, salt works, plants for bituminous conglomerates, road machines, foundries, cement plants, mining industry, plants for bricks.

Rulli di peso e resistenti per movimentazione materiali in zuccherifici, saline, impianti per conglomerati bituminosi, macchine stradali, fonderie, cementifici, industria mineraria, impianti per laterizi.

EN 10305-3 S1

ROLLERS FOR BELT CONVEYORS
RULLI PER NASTRI TRASPORTATORI A CINGHIA

High technology rollers for industrial automation systems, automatic transport systems, bottling, packaging, palletizing, for the pharmaceutical and chemical industries; rollers for dynamic warehouses, to rationalize the management of goods in any type of industrial sector, with benefits in terms of time savings, safety and flow optimization; rollers for special handling for airports, marble working machines.

Rulli a elevato contenuto tecnologico per impianti di automazione industriale, impianti di trasporto automatico, imbottigliamento, imballaggio, palettizzazione, per industria farmaceutica, chimica; rulli per magazzini dinamici, per razionalizzare la gestione delle merci in qualsiasi tipo di settore industriale, con benefici in termini di risparmio di tempo, sicurezza e ottimizzazione dei flussi; rulli per movimentazioni speciali per aeroporti, macchine per la lavorazione del marmo.

EN 10305-3 S2,S3, S4



AUTOMOTIVE
AUTOMOTIVE



BUILDINGS
COSTRUZIONI



INDUSTRIAL
INDUSTRIA



FOOD INDUSTRY
INDUSTRIA ALIMENTARE



LOGISTICS
LOGISTICA

Greenhouses are a key element for agriculture, horticulture and floriculture. The revolutionary hydroponic, aquaponic and aeroponic systems are revolutionizing the market also through the construction of “vertical farm” and “plantscraper”. Marcegaglia serves the greenhouse sector with a range of welded tubes that is at the forefront both to meet structural needs, for the construction of roofs, with single-pitch, double-pitch, symmetrical, asymmetrical, hybrid, solar greenhouses, as well for the needs of heating and cooling.

Le serre sono un elemento chiave per l’agricoltura, l’orticoltura e la floricoltura. I rivoluzionari sistemi idroponici, acquaponici e aeroponici stanno rivoluzionando il mercato anche attraverso la costruzione di “vertical farm” e “plantscraper”. Marcegaglia serve il settore delle serre con una gamma di tubi saldati che è all’avanguardia sia per rispondere alle esigenze strutturali, per la realizzazione di coperture, con serre monofalda, bifalda, simmetriche, asimmetriche, ibride, fotovoltaiche, sia per le necessità di impiantistica di riscaldamento e raffrescamento.

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EN 10305-3	Round and shaped welded and cold sized steel tubes for precision applications Tubi di acciaio tondi e speciali, saldati e calibrati a freddo per impieghi di precisione	+CR2 Welded and sized Saldato e calibrato a freddo	E260	S4 From coated strip Da nastro rivestito secondo condizioni stabilite
EN 10305-5	Square and rectangular welded and cold sized steel tubes for precision applications Tubi di acciaio di sezione quadrata e rettangolare, saldati e calibrati a freddo per impieghi di precisione			
EN 10219-1 S*	Cold formed welded structural tubes (CE homologation) Tubi saldati formati a freddo per impieghi strutturali (omologazione CE)		S235JRH	

*CE marking for structural tubes EN 10219 (D.E. 89/106/EEC) Marchio CE per tubi strutturali EN 10219 (D.E. 89/106/EEC)

ROUND TUBES Tubi tondi																	EN 10305-3 S1, S2, S3, S4																	weight kg/m			
outside diameter mm																																					
	0,8	0,9	1	1,1	1,2	1,4	1,5	1,8	2	2,5	3	3,3	3,7	4	4,2	4,5		4,7	5	5,6	6	6,3	6,6	7	7,6	8	8,6	9	9,6	10	10,5	11	11,5	12	12,5	13	
40	0,773	0,868	0,962	1,055	1,148	1,332	1,424	1,695	1,874	2,312	2,737	2,986	3,312	3,551	3,707	3,939		4,091	4,315	4,750	5,030	5,235															
41	0,793	0,890	0,986	1,082	1,178	1,367	1,461	1,740	1,923	2,373	2,811																										
41,3	0,799	0,897	0,994	1,090	1,186	1,377	1,472	1,753	1,938	2,392	2,833																										
41,5	0,803	0,901	0,999	1,096	1,192	1,384	1,479	1,762	1,948	2,404	2,848																										
42	0,813	0,912	1,011	1,109	1,207	1,401	1,498	1,784	1,973	2,435	2,885	3,149	3,494	3,748	3,914	4,161		4,323	4,561	5,026	5,326	5,546															
42,4							1,513	1,802	1,992	2,460	2,914	3,181	3,531	3,787	3,956	4,205		4,369	4,611	5,081	5,385	5,608															
43	0,832	0,934	1,036	1,136	1,237	1,436	1,535	1,829	2,022	2,496	2,959	3,230	3,585	3,846																							
44	0,852	0,956	1,060	1,164	1,266	1,471	1,572	1,873	2,071	2,558	3,033																										
44,5							1,590	1,895	2,096	2,589	3,070	3,352	3,722	3,994	4,173	4,438		4,612	4,870	5,371	5,696																
44,6	0,864	0,970	1,075	1,180	1,284	1,491	1,594	1,900	2,101	2,595	3,077																										
45	0,872	0,979	1,085	1,191	1,296	1,505	1,609	1,917	2,120	2,620	3,107	3,393	3,768	4,044	4,225	4,494		4,670	4,931	5,440	5,770	6,012	6,249														
46	0,892	1,001	1,110	1,218	1,326	1,540	1,646	1,962	2,170	2,681	3,181																										
46,7	0,905	1,016	1,127	1,237	1,346	1,564	1,672	1,993	2,204	2,725	3,232																										
47							1,683	2,006	2,219	2,743	3,255	3,556	3,950	4,241	4,432	4,716		4,902	5,178	5,716	6,066	6,322	6,574														
47,6	0,923	1,036	1,149	1,261	1,373	1,595	1,705	2,033	2,249	2,780	3,299																										
48	0,931	1,045	1,159	1,272	1,385	1,609	1,720	2,050	2,268	2,805	3,329	3,637	4,041	4,340	4,536	4,827		5,018	5,301	5,854	6,213	6,478	6,737	7,076	7,571	7,890											
48,3							1,731	2,064	2,283	2,823	3,351	3,662	4,069	4,369	4,567	4,860		5,053	5,338	5,896	6,258	6,524	6,786	7,128	7,627	7,949											
48,5							1,738	2,073	2,293	2,836	3,366	3,678	4,087	4,389	4,588	4,882		5,076	5,363	5,924	6,287	6,555	6,819	7,163	7,664	7,989											
49,3	0,957	1,074	1,191	1,307	1,423	1,653	1,768	2,108	2,333	2,885	3,425																										
49,7	0,965	1,083	1,201	1,318	1,435	1,667	1,783	2,126	2,352	2,909	3,454																										
50	0,970	1,090	1,208	1,326	1,444	1,678	1,794	2,139	2,367	2,928	3,477	3,800	4,224	4,537	4,743	5,048		5,250	5,548	6,131	6,509	6,788	7,063	7,422	7,945	8,285											
52			1,257	1,381	1,503	1,747	1,868	2,228	2,466	3,051	3,625	3,963	4,406	4,734	4,950	5,270		5,481	5,794	6,407	6,805	7,099	7,388	7,767	8,320	8,679											
53			1,282	1,408	1,533	1,781	1,905	2,272	2,515	3,113	3,699	4,044	4,498	4,833	5,054	5,381		5,597	5,918	6,545	6,953	7,254	7,551	7,939	8,508	8,876											
54			1,307	1,435	1,562	1,816	1,942	2,317	2,564	3,175	3,772	4,125	4,589	4,931	5,157	5,492		5,713	6,041	6,683	7,101	7,410	7,714	8,112	8,695	9,074											
54,50							1,960	2,339	2,589	3,205	3,809	4,166	4,634	4,981	5,209	5,548		5,771	6,103	6,752	7,175	7,487	7,795	8,198	8,789	9,172											
55			1,331	1,462	1,592	1,850	1,979	2,361	2,614	3,236	3,846	4,207	4,680	5,030	5,261	5,603		5,829	6,164	6,821	7,249	7,565	7,876	8,285	8,882	9,271											
56			1,356	1,489	1,621	1,885	2,016	2,406	2,663	3,298	3,920	4,288	4,771	5,129	5,364	5,714		5,945	6,287	6,959	7,397	7,720	8,039	8,457	9,070	9,468											
57			1,381	1,516	1,651	1,919	2,053	2,450	2,712	3,359	3,994	4,369	4,863	5,227	5,468	5,825		6,061	6,411	7,097	7,545																
58			1,405	1,543	1,681	1,954	2,090	2,494	2,762	3,421	4,068																										
59			1,430	1,570	1,710	1,988	2,127	2,539	2,811	3,483	4,142																										
60			1,455	1,598	1,740	2,023	2,164	2,583	2,860	3,544	4,216	4,614	5,136	5,523	5,779	6,158		6,409	6,781	7,511	7,989	8,342	8,690	9,148	9,819	10,257	10,899	11,317	11,930								

S

A

SQUARE TUBES

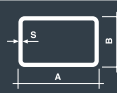
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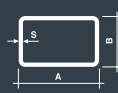
weight kg/m

EN 10305-5 S1, S2, S3, S4

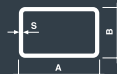
external dimensions		wall thickness mm												wall thickness mm											external dimensions		
A x A mm		0,6	0,7	0,8	0,9	1	1,1	1,2	1,4	1,5	1,8	2		2,5	3	4	5	6	7	8	9,6	10	12	12,5	14	16	A x A mm
9 x 9		0,158	0,182	0,205	0,228	0,250	0,271	0,291	0,331																		9 x 9
10 x 10		0,176	0,204	0,230	0,256	0,281	0,305	0,329	0,375	0,397																	10 x 10
12 x 12		0,214	0,248	0,280	0,312	0,344	0,374	0,405	0,463	0,491																	12 x 12
13 x 13		0,233	0,270	0,305	0,341	0,375	0,409	0,442	0,507	0,538	0,628	0,684															13 x 13
14 x 14		0,252	0,292	0,331	0,369	0,407	0,444	0,480	0,551	0,585	0,684	0,747															14 x 14
15 x 15		0,271	0,313	0,356	0,397	0,438	0,478	0,518	0,595	0,632	0,741	0,810															15 x 15
15,5 x 15,5		0,280	0,324	0,368	0,411	0,454	0,495	0,536	0,617	0,656	0,769	0,841															15,5 x 15,5
16 x 16		0,290	0,335	0,381	0,425	0,469	0,513	0,555	0,639	0,679	0,797	0,872	1,049														16 x 16
17 x 17		0,308	0,357	0,406	0,454	0,501	0,547	0,593	0,682	0,726	0,854	0,935	1,128														17 x 17
18 x 18		0,327	0,379	0,431	0,482	0,532	0,582	0,631	0,726	0,773	0,910	0,998	1,206														18 x 18
19 x 19		0,346	0,401	0,456	0,510	0,564	0,616	0,668	0,770	0,820	0,967	1,061	1,285	1,261													19 x 19
20 x 20		0,365	0,423	0,481	0,538	0,595	0,651	0,706	0,814	0,868	1,023	1,124	1,363														20 x 20
22 x 22		0,403	0,467	0,531	0,595	0,658	0,720	0,781	0,902	0,962	1,136	1,249	1,520	1,450													22 x 22
24 x 24		0,440	0,511	0,582	0,651	0,721	0,789	0,857	0,990	1,056	1,249	1,375	1,677	1,638													24 x 24
25 x 25		0,459	0,533	0,607	0,680	0,752	0,823	0,894	1,034	1,103	1,306	1,438	1,756	1,827													25 x 25
27 x 27				0,657	0,736	0,815	0,893	0,970	1,122	1,197	1,419	1,563	1,913	1,921													27 x 27
28 x 28				0,682	0,764	0,846	0,927	1,007	1,166	1,244	1,475	1,626	1,991														28 x 28
30 x 30				0,732	0,821	0,909	0,996	1,083	1,254	1,339	1,588	1,752	2,148														30 x 30
34 x 34				0,833	0,934	1,035	1,134	1,233	1,430	1,527	1,814	2,003	2,462	2,769													34 x 34
35 x 35					0,962	1,066	1,169	1,271	1,474	1,574	1,871	2,066	2,541	2,863													35 x 35
38 x 38					1,047	1,160	1,272	1,384	1,606	1,715	2,041	2,254	2,776	3,145													38 x 38
40 x 40					1,104	1,223	1,342	1,460	1,694	1,810	2,154	2,380	2,933	3,334													40 x 40
42 x 42					1,286	1,411	1,535	1,781	1,904	2,267	2,505	3,090		3,522													42 x 42
45 x 45					1,380	1,514	1,648	1,913	2,045	2,436	2,694	3,326		3,805													45 x 45
48 x 48					1,474	1,618	1,761	2,045	2,186	2,606	2,882	3,561		4,087													48 x 48
50 x 50					1,537	1,687	1,836	2,133	2,281	2,719	3,008	3,718		4,276													50 x 50
53 x 53										2,422	2,888	3,196	3,954	4,558													53 x 53
54 x 54							1,825	1,987	2,309	2,469	2,945	3,259	4,032	4,653													54 x 54
55 x 55							1,860	2,025	2,353	2,516	3,001	3,322	4,111	4,747													55 x 55
59,3 x 59,3							2,008	2,187	2,542	2,719	3,244	3,592	4,448														59,3 x 59,3
60 x 60							2,032	2,213	2,573	2,752	3,284	3,636	4,503														60 x 60
63,5 x 63,5							2,153	2,345	2,727	2,916	3,482	3,855	4,778														63,5 x 63,5
64 x 64							2,171	2,364	2,749	2,940	3,510	3,887	4,817														64 x 64
65 x 65										2,987	3,567	3,950	4,896														65 x 65
67 x 67										3,081	3,680	4,075	5,053														67 x 67
70 x 70							2,378	2,590	3,012	3,223	3,849	4,264	5,288														70 x 70
73 x 73										3,364	4,019	4,452	5,524														73 x 73
75 x 75												4,578	5,681														75 x 75
80 x 80										3,694	4,414	4,892	6,073														80 x 80
90 x 90												5,520	6,858														90 x 90
100 x 100												6,148	7,643														100 x 100
110 x 110													8,428														110 x 110
120 x 120													9,213														120 x 120
125 x 125													9,606														125 x 125
130 x 130													9,998														130 x 130
140 x 140																											140 x 140
150 x 150																											150 x 150
160 x 160																											160 x 160
175 x 175																											175 x 175
180 x 180																											180 x 180
200 x 200																											200 x 200
220 x 220																											220 x 220
250 x 250																											250 x 250
260 x 260																											260 x 260
300 x 300																											300 x 300
325 x 325																											325 x 325

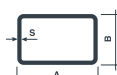
S A SQUARE TUBES Tubi quadri inches dimensions weight kg/m EN 10305-5 S1, S2, S3, S4																											
external dimensions		wall thickness mm												wall thickness mm											external dimensions		
A x A mm - inch		0,6	0,7	0,8	0,9	1	1,1	1,2	1,4	1,5	1,8	2		2,5	3	4	5	6	7	8	9,6	10	12	12,5	14	16	A x A mm - inch
12,7 x 12,7 - ½" x ½"		0,227	0,263	0,298	0,332	0,366	0,399	0,431	0,493	0,524	0,611	0,665															12,7 x 12,7 - ½" x ½"
15,87 x 15,87 - ⅝" x ⅝"		0,287	0,333	0,377	0,422	0,465	0,508	0,550	0,633	0,673	0,790	0,864	1,039														15,87 x 15,87 - ⅝" x ⅝"
19,05 x 19,05 - ¾" x ¾"		0,347	0,403	0,457	0,512	0,565	0,618	0,670	0,773	0,823	0,970	1,064	1,289														19,05 x 19,05 - ¾" x ¾"
22,2 x 22,2 - ⅞" x ⅞"		0,406	0,472	0,536	0,601	0,664	0,727	0,789	0,911	0,971	1,148	1,262	1,536														22,2 x 22,2 - ⅞" x ⅞"
25,4 x 25,4 - 1" x 1"		0,467	0,542	0,617	0,691	0,764	0,837	0,909	1,052	1,122	1,328	1,463	1,787	1,958													25,4 x 25,4 - 1" x 1"
31,75 x 31,75 - 1¼" x 1¼"				0,776	0,870	0,964	1,057	1,149	1,331	1,421	1,687	1,862	2,286	2,557													31,75 x 31,75 - 1¼" x 1¼"
38,1 x 38,1 - 1½" x 1½"					1,050	1,163	1,276	1,388	1,610	1,720	2,046	2,260	2,784	3,155	4,013												38,1 x 38,1 - 1½" x 1½"
50,8 x 50,8 - 2" x 2"					1,562	1,715	1,867	2,168	2,318	2,764	3,058	3,781	4,351	5,609	6,769												50,8 x 50,8 - 2" x 2"
76,2 x 76,2 - 3" x 3"										3,515	4,200	4,653	5,775	6,744	8,799	10,757	12,619										76,2 x 76,2 - 3" x 3"
88,9 x 88,9 - 3½" x 3½"											4,917	5,451	6,772	7,940	10,394	12,751	15,012										88,9 x 88,9 - 3½" x 3½"
101,6 x 101,6 - 4" x 4"												6,248	7,769	9,137	11,989	14,745	17,405	19,968									101,6 x 101,6 - 4" x 4"
127 x 127 - 5" x 5"													9,763	11,529	15,179	18,733	22,190	25,551	28,815								127 x 127 - 5" x 5"
152,4 x 152,4 - 6" x 6"														13,922	18,370	22,721	26,975	31,133	35,195								152,4 x 152,4 - 6" x 6"

weight kg/m																
		RECTANGULAR TUBES													EN 10305-5 S1, S2, S3, S4	
Tubi rettangolari																
external dimensions		wall thickness mm														
A x B mm		0,6	0,7	0,8	0,9	1	1,1	1,2	1,4	1,5	1,8	2	2,5	3	4	5
12 x 10		0,195	0,226	0,255	0,284	0,312	0,340	0,367	0,419	0,444						
15 x 10		0,224	0,259	0,293	0,326	0,359	0,392	0,423	0,485	0,514						
16 x 10		0,233	0,270	0,305	0,341	0,375	0,409	0,442	0,507	0,538						
16 x 18		0,308	0,357	0,406	0,454	0,501	0,547	0,593	0,682	0,726						
16,5 x 13,5		0,271	0,313	0,356	0,397	0,438	0,478	0,518	0,595	0,632						
18 x 5		0,205	0,237	0,268	0,298	0,328	0,357	0,386	0,441	0,467						
18 x 10		0,252	0,292	0,331	0,369	0,407	0,444	0,480	0,551	0,585						
18 x 11		0,261	0,302	0,343	0,383	0,422	0,461	0,499	0,573	0,609						
20 x 9		0,261	0,302	0,343	0,383	0,422	0,461	0,499	0,573	0,609						
20 x 10		0,271	0,313	0,356	0,397	0,438	0,478	0,518	0,595	0,632	0,741	0,810				
20 x 15			0,368	0,418	0,468	0,516	0,564	0,612	0,704	0,750	0,882	0,967				
20 x 15,5			0,374	0,425	0,475	0,524	0,573	0,621	0,715	0,762	0,896	0,982				
24 x 18			0,445	0,506	0,567	0,626	0,685	0,744	0,858	0,915	1,080	1,186				
25 x 10			0,368	0,418	0,468	0,516	0,564	0,612	0,704	0,750	0,882	0,967				
25 x 15			0,423	0,481	0,538	0,595	0,651	0,706	0,814	0,868	1,023	1,124				
25 x 20			0,478	0,544	0,609	0,673	0,737	0,800	0,924	0,985	1,165	1,281	1,559	1,685		
28 x 25			0,566	0,645	0,722	0,799	0,875	0,951	1,100	1,174	1,391	1,532				
30 x 10			0,423	0,481	0,538	0,595	0,651	0,706	0,814	0,868	1,023	1,124				
30 x 12			0,445	0,506	0,567	0,626	0,685	0,744	0,858	0,915	1,080	1,186				
30 x 15			0,478	0,544	0,609	0,673	0,737	0,800	0,924	0,985	1,165	1,281	1,559			
30 x 18			0,511	0,582	0,651	0,721	0,789	0,857	0,990	1,056	1,249	1,375				
30 x 20				0,607	0,680	0,752	0,823	0,894	1,034	1,103	1,306	1,438	1,756	1,921		
30 x 25				0,670	0,750	0,830	0,910	0,989	1,144	1,221	1,447	1,595	1,952	2,156		
33 x 20				0,645	0,722	0,799	0,875	0,951	1,100	1,174	1,391	1,532				
34,9 x 15,8				0,616	0,690	0,763	0,836	0,908	1,050	1,120	1,326	1,460	1,783	1,954		
35 x 10			0,544	0,609	0,673	0,737	0,800	0,924	0,985	1,165	1,281	1,559				
35 x 15			0,607	0,680	0,752	0,823	0,894	1,034	1,103	1,306	1,438	1,756	1,921			
35 x 20			0,670	0,750	0,830	0,910	0,989	1,144	1,221	1,447	1,595	1,952	2,156			
35 x 25			0,732	0,821	0,909	0,996	1,083	1,254	1,339	1,588	1,752	2,148	2,392			
35 x 30			0,795	0,892	0,987	1,083	1,177	1,364	1,456	1,730	1,909	2,344	2,627	3,310		
38 x 19			0,695	0,779	0,862	0,944	1,026	1,188	1,268	1,504	1,657	2,030				
40 x 10			0,607	0,680	0,752	0,823	0,894	1,034	1,103	1,306	1,438	1,756				
40 x 15			0,670	0,750	0,830	0,910	0,989	1,144	1,221	1,447	1,595	1,952				
40 x 20			0,732	0,821	0,909	0,996	1,083	1,254	1,339	1,588	1,752	2,148	2,392	2,996		
40 x 22			0,758	0,849	0,940	1,031	1,120	1,298	1,386	1,645	1,814	2,227	2,486	3,122		
40 x 25			0,795	0,892	0,987	1,083	1,177	1,364	1,456	1,730	1,909	2,344	2,627	3,310		
40 x 27			0,820	0,920	1,019	1,117	1,215	1,408	1,503	1,786	1,971	2,423	2,721	3,436		
40 x 30			0,858	0,962	1,066	1,169	1,271	1,474	1,574	1,871	2,066	2,541	2,863	3,624		
40 x 35			0,921	1,033	1,144	1,255	1,365	1,584	1,692	2,012	2,223	2,737	3,098	3,938		
42,5 x 29			0,877	0,983	1,089	1,195	1,299	1,507	1,609	1,913	2,113	2,600	2,933	3,718		
45 x 10			0,670	0,750	0,830	0,910	0,989	1,144	1,221	1,447	1,595	1,952	2,156			
45 x 15			0,732	0,821	0,909	0,996	1,083	1,254	1,339	1,588	1,752	2,148				
45 x 20			0,795	0,892	0,987	1,083	1,177	1,364	1,456	1,730	1,909	2,344	2,627	3,310		
45 x 25			0,858	0,962	1,066	1,169	1,271	1,474	1,574	1,871	2,066	2,541	2,863	3,624		
45 x 30			0,921	1,033	1,144	1,255	1,365	1,584	1,692	2,012	2,223	2,737	3,098	3,938		
45 x 35			0,984	1,104	1,223	1,342	1,460	1,694	1,810	2,154	2,380	2,933	3,334	4,252		
45 x 40			1,046	1,174	1,301	1,428	1,554	1,803	1,927	2,295	2,537	3,129	3,569	4,566		
48 x 20			0,833	0,934	1,035	1,134	1,233	1,430	1,527	1,814	2,003	2,462	2,769			
50 x 10			0,732	0,821	0,909	0,996	1,083	1,254	1,339	1,588	1,752	2,148				
50 x 15			0,795	0,892	0,987	1,083	1,177	1,364	1,456	1,730	1,909	2,344	2,627			
50 x 20			0,858	0,962	1,066	1,169	1,271	1,474	1,574	1,871	2,066	2,541	2,863			
50 x 25			0,921	1,033	1,144	1,255	1,365	1,584	1,692	2,012	2,223	2,737	3,098	3,938		
50 x 30			0,984	1,104	1,223	1,342	1,460	1,694	1,810	2,154	2,380	2,933	3,334	4,252		
50 x 35					1,223	1,342	1,460	1,694	1,810	2,154	2,380	2,933	3,334	4,252		
50 x 40					1,301	1,428	1,554	1,803	1,927	2,295	2,537	3,129	3,569	4,566		
50 x 40					1,380	1,514	1,648	1,913	2,045	2,436	2,694	3,326	3,805	4,880		
50 x 45					1,458	1,601	1,742	2,023	2,163	2,578	2,851	3,522	4,040	5,194		
53,5 x 25					1,199	1,316	1,431	1,661	1,774	2,111	2,333	2,874				
55 x 20					1,144	1,255	1,365	1,584	1,692	2,012	2,223	2,737	3,098			
55 x 34									2,022	2,408	2,662	3,286	3,758	4,817		
55 x 40					1,458	1,601	1,742	2,023	2,163	2,578	2,851	3,522	4,040	5,194		
60 x 10					1,066	1,169	1,271	1,474	1,574	1,871	2,066	2,541	2,863			
60 x 15					1,144	1,255	1,365	1,584	1,692	2,012	2,223	2,737	3,098			
60 x 20					1,223	1,342	1,460	1,694	1,810	2,154	2,380	2,933	3,334	4,252		
60 x 25					1,301	1,428	1,554	1,803	1,927	2,295	2,537	3,129	3,569	4,566		
60 x 30					1,380	1,514	1,648	1,913	2,045	2,436	2,694	3,326	3,805	4,880		
60 x 34					1,443	1,583	1,723	2,001	2,139	2,549	2,819	3,483	3,993	5,131		
60 x 35						1,601	1,742	2,023	2,163	2,578	2,851	3,522	4,040	5,194		
60 x 40						1,687	1,836	2,133	2,281	2,719	3,008	3,718	4,276	5,508	6,644	
60 x 45						1,773	1,931	2,243	2,398	2,860	3,165	3,914	4,511	5,822	7,036	

weight kg/m														
	RECTANGULAR TUBES										EN 10305-5 S1, S2, S3, S4			
Tubi rettangolari														
external dimensions		wall thickness mm												
A x B mm		1,1	1,2	1,4	1,5	1,8	2	2,5	3	4	5	6	7	8
60 x 50		1,860	2,025	2,353	2,516	3,001	3,322	4,111	4,747	6,136	7,429			
65 x 35		1,687	1,836	2,133	2,281	2,719	3,008	3,718	4,276	5,508				
70 x 10		1,342	1,460	1,694	1,810	2,154	2,380	2,933						
70 x 11		1,359	1,478	1,716	1,833	2,182	2,411	2,972						
70 x 15		1,428	1,554	1,803	1,927	2,295	2,537	3,129	3,569	4,566				
70 x 20		1,514	1,648	1,913	2,045	2,436	2,694	3,326	3,805	4,880				
70 x 25		1,601	1,742	2,023	2,163	2,578	2,851	3,522	4,040	5,194				
70 x 30		1,687	1,836	2,133	2,281	2,719	3,008	3,718	4,276	5,508				
70 x 35					2,398	2,860	3,165	3,914	4,511	5,822				
70 x 40		1,860	2,025	2,353	2,516	3,001	3,322	4,111	4,747	6,136	7,429			
70 x 50		2,032	2,213	2,573	2,752	3,284	3,636	4,503	5,218	6,764	8,214			
75 x 50					2,869	3,425	3,793	4,699	5,453	7,078				
76 x 34		1,860	2,025	2,353	2,516	3,001	3,322	4,111	4,747					
76 x 55					3,011	3,595	3,981	4,935	5,736	7,455				
80 x 10		1,514	1,648	1,913	2,045	2,436	2,694	3,326						
80 x 15		1,601	1,742	2,023	2,163	2,578	2,851	3,522						
80 x 20		1,687	1,836	2,133	2,281	2,719	3,008	3,718	4,276					
80 x 22		1,722	1,874	2,177	2,328	2,775	3,070	3,797						
80 x 25		1,773	1,931	2,243	2,398	2,860	3,165	3,914	4,511	5,822				
80 x 30		1,860	2,025	2,353	2,516	3,001	3,322	4,111	4,747	6,136				
80 x 35		1,946	2,119	2,463	2,634	3,143	3,479	4,307	4,982	6,450	7,821			
80 x 40		2,032	2,213	2,573	2,752	3,284	3,636	4,503	5,218	6,764	8,214			
80 x 45					2,869	3,425	3,793	4,699	5,453	7,078	8,606			
80 x 50					2,987	3,567	3,950	4,896	5,689	7,392	8,999			
80 x 60					3,223	3,849	4,264	5,288	6,160	8,020	9,784	11,451		
83 x 37					2,752	3,284	3,636	4,503	5,218	6,764				
86 x 46					3,034	3,623	4,012	4,974	5,783	7,518	9,156			
90 x 20					2,516	3,001	3,322	4,111	4,747					
90 x 30					2,752	3,284	3,636	4,503	5,218	6,764				
90 x 40					2,987	3,567	3,950	4,896	5,689	7,392	8,999	10,509		
90 x 50					3,223	3,849	4,264	5,288	6,160	8,020	9,784	11,451		
90 x 60							4,578	5,681	6,631	8,648	10,569	12,393		
90 x 70							4,892	6,073	7,102	9,276	11,354	13,335		
100 x 20					2,752	3,284	3,636	4,503	5,218	6,764				
100 x 25					2,869	3,425	3,793	4,699	5,453	7,078				
100 x 30					2,987	3,567	3,950	4,896	5,689	7,392				
100 x 35 b.t.					3,105	3,708	4,107	5,092	5,924	7,706				
100 x 40					3,223	3,849	4,264	5,288	6,160	8,020	9,784	11,451		
100 x 50							4,578	5,681	6,631	8,648	10,569	12,393		
100 x 60							4,892	6,073	7,102	9,276	11,354	13,335	15,220	17,008
100 x 70							5,206	6,466	7,573	9,904	12,139	14,277		
100 x 80							5,520	6,858	8,044	10,532	12,924	15,219	17,418	19,520
103 x 87							5,834	7,251	8,515	11,160				
106 x 34					3,223	3,849	4,264	5,288	6,160	8,020				
110 x 30							4,264	5,288	6,160	8,020				
110 x 50							4,892	6,073	7,102	9,276	11,354	13,335		
110 x 70							5,520	6,858	8,044	10,532	12,924	15,219		
120 x 30							4,578	5,681	6,631	8,648				
120 x 40							4,892	6,073	7,102	9,276	11,354	13,335		
120 x 50							5,206	6,466	7,573	9,904	12,139	14,277		
120 x 60							5,520	6,858	8,044	10,532	12,924	15,219	17,418	19,520
120 x 80							6,148	7,643	8,986	11,788	14,494	17,103	19,616	22,032
120 x 100								8,428	9,928	13,044	16,064	18,987		
126 x 34							4,892	6,073	7,102	9,276	11,354			
130 x 50							5,520	6,858	8,044	10,532	12,924	15,219		
130 x 60							5,834	7,251	8,515	11,160	13,709	16,161	18,517	
140 x 40							5,520	6,858	8,044	10,532	12,924	15,219		
140 x 50							5,834	7,251	8,515	11,160	13,709	16,161	18,517	
140 x 60							6,148	7,643	8,986	11,788	14,494	17,103	19,616	
140 x 70								8,036	9,457	12,416	15,279	18,045	20,715	23,288
140 x 80								8,428	9,928	13,044	16,064	18,987	21,814	24,544
140 x 100									10,870	14,300	17,634			
150 x 30							5,520	6,858	8,044	10,532	12,924			
150 x 40							5,834	7,251	8,515	11,160	13,709	16,161		
150 x 50							6,148	7,643	8,986	11,788	14,494	17,103		
150 x 60								8,036	9,457	12,416	15,279	18,045	20,715	
150 x 70								8,428	9,928	13,044	16,064	18,987	21,814	
150 x 75								8,624	10,163	13,358	16,456	19,458	22,363	

weight kg/m

		RECTANGULAR TUBES												EN 10305-5 S1, S2, S3, S4											
		Tubi rettangolari																							
external dimensions		wall thickness mm																							
A x B mm		2	2,5	3	4	5	6	7	8	9	10	12	12,5	14											
150 x 100				11,341	14,928	18,419	21,813	25,111	28,312	31,417	34,425	40,153													
160 x 50			8,036	9,457	12,416	15,279	18,045	20,715																	
160 x 60			8,428	9,928	13,044	16,064	18,987	21,814																	
160 x 80				10,870	14,300	17,634	20,871	24,012	27,056																
160 x 90				11,341	14,928	18,419	21,813	25,111	28,312	31,417	34,425	40,153													
160 x 100				11,812	15,556	19,204	22,755	26,210	29,568																
160 x 120				12,754	16,812	20,774	24,639	28,408	32,080																
160 x 140				13,696	18,068	22,344	26,523	30,606	34,592																
180 x 50				10,399	13,672	16,849	19,929	22,913	25,800																
180 x 60				10,870	14,300	17,634	20,871	24,012	27,056																
180 x 80				11,812	15,556	19,204	22,755	26,210	29,568																
180 x 100				12,754	16,812	20,774	24,639	28,408	32,080	35,656	39,135	45,805	47,412	52,088											
180 x 120				13,696	18,068	22,344	26,523	30,606	34,592																
180 x 140				14,638	19,324	23,914	28,407	32,804	37,104																
180 x 150				15,109	19,952	24,699	29,349	33,903	38,360																
200 x 40				10,870	14,300	17,634	20,871	24,012	27,056																
200 x 60				11,812	15,556	19,204	22,755	26,210	29,568																
200 x 70				12,283	16,184	19,989	23,697	27,309	30,824																
200 x 80				12,754	16,812	20,774	24,639	28,408	32,080																
200 x 100				13,696	18,068	22,344	26,523	30,606	34,592	38,482	42,275	49,573	51,337	56,484											
200 x 120				14,638	19,324	23,914	28,407	32,804	37,104	41,308	45,415	53,341	55,262	60,880											
200 x 150				16,051	21,208	26,269	31,233	36,101	40,872	45,547	50,125	58,993													
200 x 160				16,522	21,836	27,054	32,175	37,200	42,128																
220 x 120				15,580	20,580	25,484	30,291	35,002	39,616																
220 x 140				16,522	21,836	27,054	32,175	37,200	42,128	46,960	51,695	60,877	63,112	69,672											
230 x 80				14,167	18,696	23,129	27,465	31,705	35,848																
250 x 100				16,051	21,208	26,269	31,233	36,101	40,872	45,547	50,125	58,993													
250 x 150				18,406	24,348	30,194	35,943	41,596	47,152	52,612	57,975	68,413	70,962	78,464											
250 x 200				20,761	27,488	34,119	40,653	47,091	53,432																
260 x 140				18,406	24,348	30,194	35,943	41,596	47,152	52,612	57,975	68,413	70,962	78,464											
300 x 100				18,406	24,348	30,194	35,943	41,596	47,152	52,612	57,975	68,413	70,962	78,464											
300 x 150					20,761	27,488	34,119	40,653	47,091	53,432	59,677	65,825	77,833	89,454											
300 x 200							38,044	45,363	52,586	59,712	66,742	73,675	87,253	90,587											
300 x 220							39,614	47,247	54,784	62,224															
350 x 150							38,044	45,363	52,586	59,712	66,742	73,675	87,253	90,587											
350 x 250							45,894	54,783	63,576	72,272															
400 x 200							45,894	54,783	63,576	72,272	80,872	89,375	106,093	110,212											
400 x 250							49,819	59,493	69,071	78,552	87,937	97,225	115,513	120,024											
														133,414											



inches dimensions

weight kg/m

RECTANGULAR TUBES

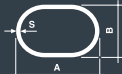
Tubi rettangolari

EN 10305-5 S1, S2, S3, S4

external dimensions	wall thickness mm																	
A x B mm - inches	0,7	0,8	0,9	1	1,1	1,2	1,4	1,5	1,8	2	2,5	3	4	5	6	7	8	
25,4 x 12,7 - 1" x ½"	0,403	0,457	0,512	0,565	0,618	0,670	0,773	0,823	0,970	1,064	1,289	1,360						
31,75 x 19,05 - 1¼" x ¾"		0,617	0,691	0,764	0,837	0,909	1,052	1,122	1,328	1,463	1,787	1,958						
38,1 x 19,05 - 1½" x ¾"		0,697	0,781	0,864	0,947	1,029	1,191	1,271	1,508	1,662	2,036	2,258						
38,1 x 25,4 - 1½" x 1"		0,776	0,870	0,964	1,057	1,149	1,331	1,421	1,687	1,862	2,286	2,557						
50,8 x 25,4 - 2" x 1"				1,163	1,276	1,388	1,610	1,720	2,046	2,260	2,784	3,155	4,013					
50,8 x 38,1 - 2" x 1½"				1,363	1,495	1,627	1,889	2,019	2,405	2,659	3,283	3,753	4,811	5,772				
63,5 x 38,1 - 2½" x 1½"					1,715	1,867	2,168	2,318	2,764	3,058	3,781	4,351	5,609	6,769				
76,2 x 25,4 - 3" x 1"					1,715	1,867	2,168	2,318	2,764	3,058	3,781	4,351	5,609	6,769				
76,2 x 38,1 - 3" x 1½"					1,934	2,106	2,447	2,617	3,123	3,457	4,279	4,949	6,406	7,766				
76,2 x 50,8 - 3" x 2"								2,916	3,482	3,855	4,778	5,547	7,204	8,763				
88,9 x 38,1 - 3½" x 1½"								2,916	3,482	3,855	4,778	5,547	7,204	8,763				
101,6 x 50,8 - 4" x 2"									4,200	4,653	5,775	6,744	8,799	10,757	12,619			
101,6 x 76,2 - 4" x 3"								4,917	5,451	6,772	7,940	10,394	12,751	15,012				
127 x 50,8 - 5" x 2"									5,451	6,772	7,940	10,394	12,751	15,012				
127 x 76,2 - 5" x 3"									6,248	7,769	9,137	11,989	14,745	17,405	19,968			
152,4 x 50,8 - 6" x 2"									6,248	7,769	9,137	11,989	14,745	17,405	19,968			
152,4 x 76,2 - 6" x 3"										8,766	10,333	13,584	16,739	19,797				
152,4 x 101,6 - 6" x 4"										9,763	11,529	15,179	18,733	22,190	25,551			
203,2 x 101,6 - 8" x 4"											13,922	18,370	22,721	26,975	31,133	35,195		



weight kg/m													
		EN 10305-3 S2, S3, S4											
OVAL TUBES Tubi ovali													
external dimensions		wall thickness mm											
A x B mm	0,6	0,7	0,8	0,9	1	1,1	1,2	1,4	1,5	1,8	2	2,5	3
12,8 x 3,8	0,131	0,152	0,171	0,190	0,209	0,227	0,245	0,280					
13,5 x 4,5	0,139	0,160	1,181	0,202	0,222	0,241	0,260	0,300					
14 x 8	0,168	0,195	0,221	0,246	0,271	0,296	0,320	0,359	0,398				
17,5 x 5	0,183	0,212	0,240	0,268	0,296	0,323	0,349	0,387	0,425				
18 x 10	0,213	0,247	0,280	0,313	0,345	0,377	0,408	0,454	0,499				
20 x 10	0,228	0,264	0,300	0,335	0,370	0,404	0,438	0,487	0,536	0,630	0,691		
20 x 15	0,260	0,300	0,340	0,380	0,420	0,460	0,500	0,570	0,610	0,720	0,790		
21,5 x 4	0,213	0,247	0,280	0,313	0,345	0,377	0,408	0,454	0,499	0,630	0,691		
22 x 10	0,250	0,290	0,333	0,372	0,411	0,449	0,487	0,542	0,597	0,717	0,796		
22 x 12	0,263	0,305	0,347	0,388	0,429	0,469	0,509	0,567	0,625	0,737	0,809		
22 x 14	0,272	0,316	0,359	0,401	0,444	0,486	0,527	0,587	0,647	0,763	0,838		
22 x 15	0,279	0,324	0,369	0,413	0,456	0,499	0,541	0,604	0,666	0,786	0,863		
23 x 13	0,279	0,324	0,369	0,413	0,456	0,499	0,541	0,604	0,666	0,786	0,863		
24 x 16	0,300	0,350	0,400	0,450	0,490	0,540	0,590	0,680	0,720	0,850	0,940		
25 x 12	0,279	0,324	0,385	0,480	0,476	0,521	0,565	0,630	0,695	0,884	0,927		
25 x 8,6	0,272	0,316	0,359	0,401	0,444	0,486	0,527	0,587	0,647	0,763	0,838		
25 x 15	0,307	0,357	0,406	0,455	0,503	0,551	0,598	0,667	0,736	0,870	0,957		
26 x 16		0,367	0,418	0,468	0,518	0,567	0,616	0,687	0,758	0,897	0,986		
27,6 x 12,7		0,367	0,418	0,468	0,518	0,567	0,616	0,687	0,758	0,897	0,986		
28 x 15		0,380	0,440	0,490	0,540	0,590	0,650	0,750	0,790	0,940	1,030		
30 x 10		0,380	0,429	0,482	0,536	0,587	0,637	0,712	0,786	0,921	1,023		
30 x 15		0,419	0,477	0,535	0,592	0,648	0,704	0,787	0,869	1,030	1,130		
30 x 17		0,420	0,485	0,544	0,602	0,659	0,716	0,800	0,884	1,040	1,150		
30 x 20		0,454	0,548	0,615	0,681	0,746	0,811	0,906	1,000	1,190	1,310		
31 x 16		0,430	0,500	0,562	0,622	0,681	0,740	0,827	0,914	1,085	1,194		
32 x 16		0,440	0,501	0,561	0,621	0,681	0,740	0,827	0,914	1,080	1,190		
33 x 10		0,410	0,467	0,525	0,583	0,639	0,694	0,775	0,856	1,006	1,117		
34 x 16		0,482	0,549	0,615	0,681	0,746	0,811	0,940	1,003	1,190	1,313		
34 x 17,5		0,472	0,537	0,602	0,660	0,730	0,794	0,888	0,981	1,164	1,283		
35 x 11		0,440	0,501	0,561	0,621	0,681	0,740	0,860	0,914	1,080	1,190		
35 x 12		0,449	0,512	0,574	0,635	0,696	0,756	0,845	0,934	1,100	1,220		
35 x 15			0,537	0,602	0,666	0,730	0,793	0,887	0,980	1,163	1,283		
35 x 20			0,576	0,646	0,715	0,784	0,852	0,953	1,054	1,252	1,381		
36 x 18			0,576	0,646	0,715	0,784	0,852	0,951	1,050	1,250	1,380	1,700	
38 x 16			0,576	0,646	0,715	0,784	0,852	0,951	1,050	1,250	1,380	1,700	
38 x 20			0,615	0,690	0,764	0,838	0,912	1,016	1,120	1,340	1,480	1,810	
39,7 x 14,7			0,576	0,646	0,715	0,784	0,852	0,951	1,050	1,250	1,380	1,700	
40 x 10			0,576	0,646	0,715	0,784	0,852	0,951	1,050	1,250	1,380	1,700	
40 x 14			0,576	0,646	0,715	0,784	0,852	0,951	1,054	1,252	1,381	1,730	
40 x 20			0,635	0,712	0,789	0,865	0,941	1,051	1,160	1,380	1,520	1,880	2,220
40 x 22			0,640	0,721	0,801	0,878	0,955	1,069	1,182	1,400	1,555	1,910	
40 x 25			0,675	0,757	0,839	0,920	1,001	1,121	1,240	1,475	1,629	2,005	
40 x 28			0,690	0,780	0,860	0,950	1,030	1,190	1,270	1,510	1,670	2,060	
44,5 x 15			0,655	0,735	0,814	0,893	0,971	1,130	1,200	1,430	1,570	1,940	
45 x 15			0,657	0,736	0,816	0,896	0,976	1,088	1,200	1,430	1,580	1,950	
45 x 17			0,657	0,757	0,838	0,919	1,000	1,120	1,240	1,470	1,630	1,990	
45 x 20			0,690	0,779	0,863	0,947	1,030	1,150	1,270	1,510	1,670	2,060	
45 x 25			0,730	0,823	0,913	1,001	1,089	1,220	1,351	1,607	1,776	2,180	
47 x 18			0,695	0,780	0,864	0,947	1,030	1,154	1,277	1,519	1,678	2,067	
48 x 20			0,730	0,823	0,912	1,001	1,090	1,220	1,350	1,610	1,780	2,190	
48,5 x 10,2			0,675	0,757	0,839	0,920	1,001	1,121	1,240	1,474	1,628	2,005	
50 x 10			0,694	0,779	0,863	0,947	1,030	1,150	1,270	1,510	1,670	2,000	
50 x 11			0,690	0,780	0,860	0,950	1,030	1,190	1,270	1,510	1,670	2,060	
50 x 20			0,770	0,868	0,962	1,055	1,148	1,287	1,425	1,696	1,875	2,313	2,730
50 x 25			0,808	0,912	1,010	1,105	1,200	1,345	1,490	1,780	1,970	2,430	2,880
50 x 30			0,832	0,934	1,036	1,137	1,237	1,387	1,536	1,829	2,023	2,498	
56 x 11			0,773	0,868	0,962	1,056	1,149	1,287	1,425	1,696	1,875	2,313	
57 x 12			0,773	0,881	0,978	1,076	1,173	1,320	1,467	1,761	1,907	2,360	
57,5 x 10			0,813	0,868	0,962	1,056	1,150	1,285	1,420	1,700	1,870	2,310	
60 x 10,4			0,813	0,912	1,010	1,105	1,200	1,400	1,490	1,780	1,970	2,430	
60 x 15				0,979	1,090	1,195	1,300	1,455	1,610	1,920	2,120	2,620	
60 x 20				0,990	1,097	1,204	1,310	1,468	1,626	1,930	2,144	2,650	
60 x 25				1,030	1,142	1,257	1,371	1,542	1,713	2,011	2,234	2,760	



OVAL TUBES

Tubi ovali

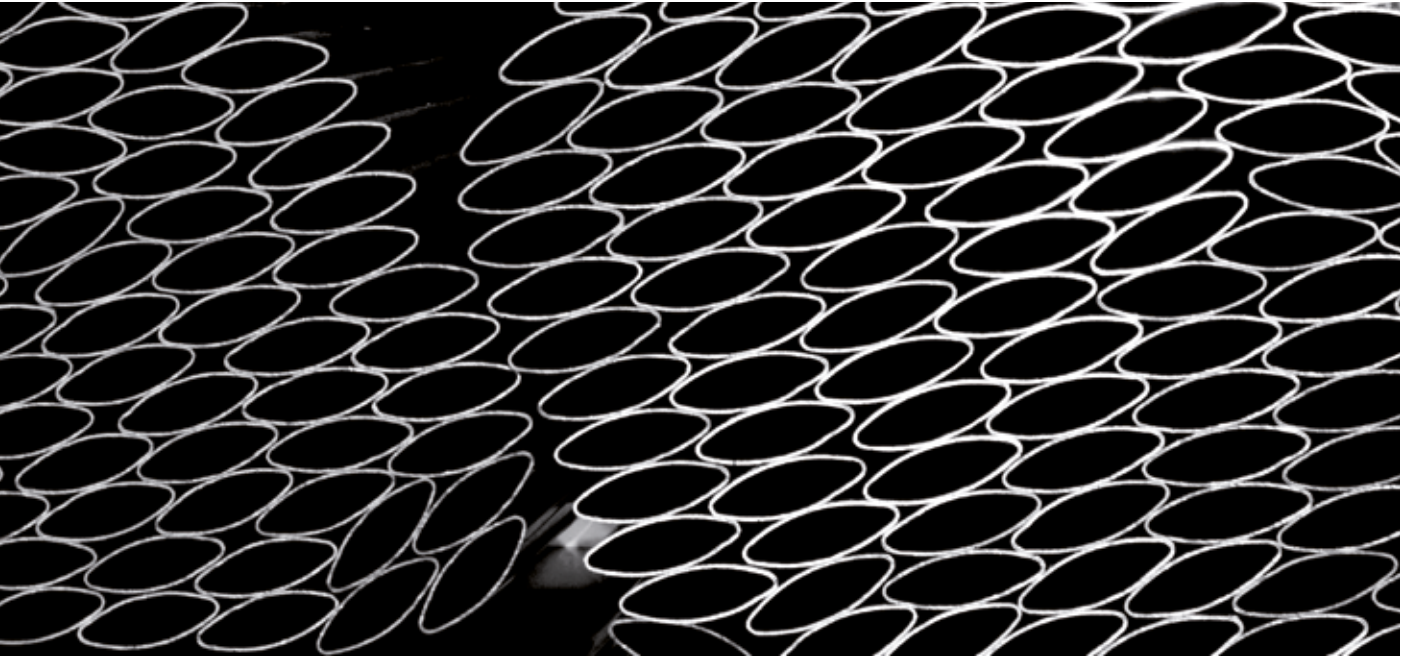
weight kg/m

EN 10305-3 S2, S3, S4

external dimensions	wall thickness mm													
A x B mm	0,6	0,7	0,8	0,9	1	1,1	1,2	1,4	1,5	1,8	2	2,5	3	
60 x 30				1,090	1,220	1,330	1,440	1,615	1,790	2,140	2,370	2,930	3,470	
63 x 9				0,979	1,085	1,191	1,296	1,453	1,610	1,918	2,122	2,620		
65 x 30				1,135	1,258	1,381	1,504	1,687	1,869	2,230	2,468	3,054		
68 x 45				1,310	1,450	1,595	1,740	2,020	2,160	2,580	2,860	3,550		
69,3 x 8				1,040	1,150	1,265	1,380	1,610	1,720	2,050	2,270	2,800		
70 x 8				0,646	0,716	0,785	0,853	0,952	1,055	2,052	1,382	1,696		
70 x 10				1,090	1,210	1,325	1,440	1,615	1,790	2,140	2,370	2,930		
70 x 11				1,090	1,209	1,332	1,455	1,625	1,795	2,141	2,369	2,930		
70 x 20					1,260	1,380	1,500	1,685	1,870	2,230	2,470	3,050		
70 x 25					1,330	1,460	1,590	1,785	1,980	2,360	2,610	3,160		
75 x 14					1,280	1,405	1,530	1,715	1,900	2,260	2,510	3,100		
77 x 38					1,520	1,670	1,820	2,045	2,270	2,710	3,010	3,730	4,440	
80 x 20					1,410	1,545	1,680	1,885	2,090	2,490	2,760	3,420		
80 x 25						1,600	1,740	1,950	2,160	2,580	2,860	3,550		
80 x 30						1,670	1,820	2,130	2,270	2,710	3,010	3,730		
80 x 45						1,790	2,036	2,283	2,530	3,030	3,350	4,160		
85 x 25						1,680	1,827	2,055	2,283	2,718	3,019	3,740		
90 x 30						1,810	1,975	2,222	2,468	2,939	3,265	4,160		
95 x 30						1,920	2,096	2,440	2,609	3,230	3,445	4,287		
100 x 20						1,920	2,096	2,440	2,609	3,230	3,455	4,287		
98 x 38									2,750	3,290	3,650	4,530	5,400	
100 x 30						2,030	2,215	2,580	2,758	3,420	3,652	4,534		
103 x 16									2,640	3,160	3,500	4,350	5,180	
110 x 25									2,906	3,473	3,848	4,410	4,781	
140 x 50										4,710	5,230	6,500	7,770	
250 x 50										7,820	8,680	10,810	12,940	
245 x 100										8,490	9,430	11,750	14,070	

weight kg/m

ELLIPTICAL TUBES <i>Tubi ellittici</i>														EN 10305-3 S2, S3, S4	
external dimensions		wall thickness mm													
A x B mm	0,6	0,7	0,8	0,9	1	1,1	1,2	1,4	1,5	1,8	2	2,5	3	3,7	
18,5 x 13,4		0,264	0,300	0,335	0,370	0,404	0,438	0,487	0,536	0,630					
22 x 14		0,333	0,379	0,424	0,469	0,513	0,556	0,605	0,654	0,808	0,888				
24 x 16		0,333	0,379	0,424	0,469	0,513	0,556	0,605	0,654	0,808	0,888				
26 x 17		0,367	0,418	0,468	0,513	0,565	0,616	0,687	0,758	0,897	0,986				
26 x 18		0,370	0,420	0,470	0,520	0,570	0,620	0,710	0,760	0,900	0,990				
28 x 20		0,402	0,457	0,513	0,567	0,621	0,675	0,780	0,832	0,986	1,080				
29 x 20		0,419	0,477	0,535	0,592	0,648	0,704	0,787	0,869	1,030	1,130				
30 x 14		0,385	0,438	0,490	0,542	0,594	0,645	0,750	0,795	0,941	1,030				
30 x 15		0,367	0,418	0,468	0,513	0,565	0,616	0,687	0,758	0,897	0,986				
30 x 18		0,402	0,457	0,513	0,567	0,621	0,675	0,754	0,832	0,986	1,080				
30 x 19		0,419	0,477	0,535	0,592	0,648	0,704	0,810	0,869	1,030	1,130				
30 x 22		0,471	0,536	0,601	0,666	0,730	0,793	0,887	0,980	1,160	1,280				
31 x 18		0,419	0,477	0,535	0,592	0,648	0,704	0,787	0,869	1,030	1,130				
33 x 16		0,419	0,477	0,535	0,592	0,648	0,704	0,787	0,869	1,030	1,130				
35 x 20		0,481	0,548	0,615	0,681	0,746	0,811	0,906	1,000	1,190	1,310				
36 x 12		0,440	0,501	0,561	0,621	0,681	0,740	0,827	0,914	1,080	1,190	1,462			
40 x 20		0,506	0,576	0,646	0,715	0,784	0,852	0,951	1,050	1,250	1,380	1,696			
40,5 x 15,5		0,506	0,576	0,646	0,715	0,784	0,852	0,951	1,050	1,250	1,380	1,696			
41 x 15		0,506	0,576	0,646	0,715	0,784	0,852	0,951	1,050	1,250	1,380	1,696			
42,3 x 14,2		0,506	0,576	0,646	0,715	0,784	0,852	0,951	1,050	1,250	1,380	1,696			
45 x 15		0,540	0,615	0,690	0,764	0,838	0,912	1,016	1,120	1,340	1,480	1,820			
48 x 25			0,723	0,810	0,898	0,984	1,070	1,199	1,328	1,580	1,740	2,150			
50 x 20			0,723	0,810	0,898	0,984	1,070	1,199	1,328	1,580	1,740	2,150			
50 x 25			0,734	0,823	0,912	1,001	1,090	1,220	1,350	1,610	1,780	2,210			
55 x 15				0,823	0,912	1,001	1,090	1,220	1,350	1,610	1,780	2,190			
60 x 30				0,981	1,095	1,202	1,308	1,464	1,619	1,921	2,121	2,623			
60 x 32				1,046	1,160	1,273	1,386	1,554	1,721	2,052	2,270	2,807			
65 x 18				0,979	1,090	1,195	1,300	1,455	1,610	1,920	2,120	2,620			
70 x 42					1,380	1,515	1,650	1,920	2,050	2,450	2,710	3,360			
73 x 46									2,165	2,585	2,862	3,547	4,219		
76 x 25					1,330	1,460	1,590	1,785	1,980	2,360	2,610	3,240			
76 x 45					1,530	1,670	1,820	2,130	2,270	2,710	3,010	3,730			
93,5 x 59									2,646	3,162	3,504	4,349	5,182		
101 x 50,8						2,140	2,331	2,620	2,908	3,462	3,846	4,776			
120 x 60										4,540	4,590	5,710	6,810	8,340	
165 x 125													10,730	13,20	



weight kg/m

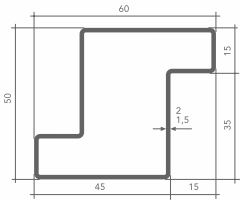
TRIANGULAR TUBES <i>Tubi triangolari</i>					
external dimensions		wall thickness mm			
A x B mm	TAV	1,5	2	2,5	3
30 x 15	1338	0,86	1,13		
40 x 22	633	1,18	1,55		
36,5 x 37,5	1871	1,35	1,78		
43 x 43	1870	1,61	2,12	2,62	
49,5 x 46,5	1858	1,79	2,37	2,93	
126 x 145	1874		6,79	8,46	10,12



weight kg/m

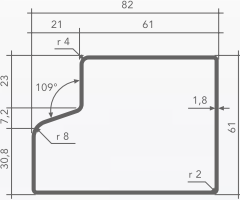
SEMIOVAL TUBULAR SECTIONS <i>Tubi semiovali</i>												
external dimensions		wall thickness mm										
A x B mm	0,6	0,7	0,8	0,9	1	1,1	1,2	1,4	1,5	1,8	2	2,5
14 x 10			0,260	0,290	0,320	0,350	0,379	0,421	0,462			
25 x 25			0,534	0,601	0,667	0,734	0,800	0,894	0,988	1,161	1,289	
30 x 15			0,510	0,730	0,637	0,701	0,765	0,843	0,921	1,080	1,200	
30 x 20			0,576	0,646	0,715	0,784	0,852	0,951	1,050	1,250	1,380	1,700
30 x 30			0,655	0,735	0,814	0,893	0,971	1,086	1,200	1,430	1,570	1,940
35 x 20			0,615	0,690	0,764	0,838	0,912	1,016	1,120	1,340	1,480	1,810
35 x 25			0,632	0,710	0,789	0,852	0,941	1,051	1,160	1,380	1,520	1,880
35 x 30	1,082		0,729	0,818	0,906	0,994	1,082	1,212	1,341	1,596	1,764	2,174
35 x 35			0,773	0,868	0,962	1,056	1,150	1,285	1,420	1,700	1,870	2,320
38 x 20			0,655	0,735	0,814	0,893	0,971	1,086	1,200	1,430	1,570	1,940
38 x 22			0,675	0,757	0,838	0,919	1,000	1,120	1,239	1,474	1,628	2,004
40 x 15			0,635	0,712	0,789	0,865	0,941	1,051	1,160	1,380	1,520	1,880
40 x 20			0,694	0,779	0,863	0,947	1,030	1,150	1,270	1,520	1,670	2,005
40 x 25			0,734	0,823	0,912	0,956	1,000	1,175	1,350	x	1,780	2,190
40 x 30			0,774	0,868	0,962	1,055	1,148	1,287	1,425	1,696	1,875	2,313
40 x 32			0,813	0,912	1,010	1,105	1,200	1,400	1,490	1,780	1,970	2,430
41 x 35			0,883	0,934	1,034	1,133	1,232	1,379	1,525	1,811	1,999	
45 x 40			0,930	1,040	1,150	1,270	1,380	1,610	1,720	2,050	2,270	2,810
48,5 x 35			0,931	1,040	1,150	1,265	1,380	1,550	1,720	2,050	2,270	2,800
50 x 25			0,872	0,979	1,090	1,195	1,300	1,455	1,610	1,920	2,120	2,660
50 x 30			0,908	1,019	1,130	1,240	1,350	1,570	1,676	1,998	2,210	2,732
55 x 35					1,260	1,380	1,510	1,750	1,870	2,230	2,470	3,060
60 x 30					1,310	1,430	1,560	1,820	1,940	2,310	2,560	3,170
60 x 40					1,380	1,515	1,650	1,850	2,050	2,450	2,710	3,360
80 x 40					1,738	1,917	2,096	2,353	2,609	3,118	3,454	4,287
90 x 15					1,684	1,853	2,021	2,262	2,502	3,032	3,305	4,108
102 x 20						2,000	2,213	2,540	2,755	3,294	3,649	4,543

16Z (T. 616) • 40%



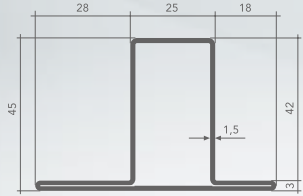
Thickness (mm)	kg/m
1,5	2,56
2	3,39

T. 1965 • 30%



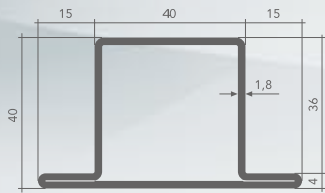
Thickness (mm)	kg/m
1,8	3,87

LS15D (PN) • 45%



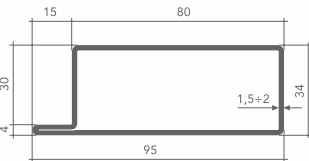
Thickness (mm)	kg/m
1,5	2,68

E5-RP152 (PN) • 50%



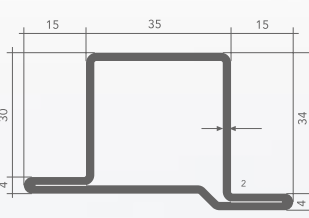
Thickness (mm)	kg/m
1,8	3,07

S41 (T. 1308) • 35%



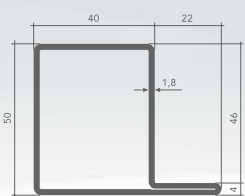
Thickness (mm)	kg/m
1,5	3,02
2	3,94

BST9-RP140 (PN) • 55%



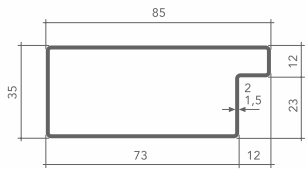
Thickness (mm)	kg/m
2	-

E8-RP1072 (PN) • 40%



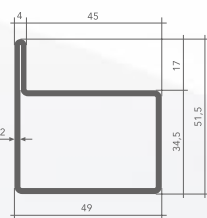
Thickness (mm)	kg/m
1,8	3,13

2D (T. 1528) • 35%



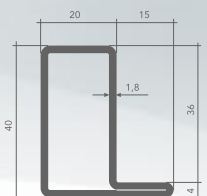
Thickness (mm)	kg/m
1,5	2,78
2	3,66

T. 1372 • 40%



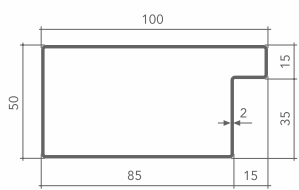
Thickness (mm)	kg/m
2	3,06

E1-RP1114 (PN) • 50%



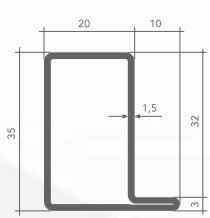
Thickness (mm)	kg/m
1,8	1,52

16D (T. 1527) • 30%



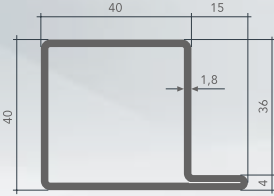
Thickness (mm)	kg/m
2	4,65

BSD5 (PN) • 60%



Thickness (mm)	kg/m
1,5	1,52

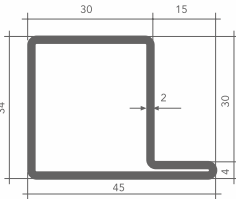
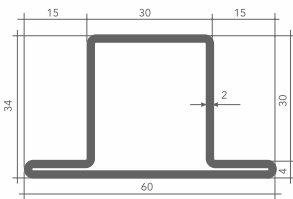
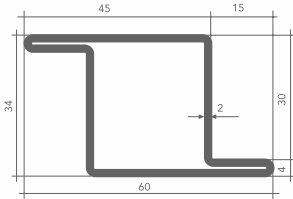
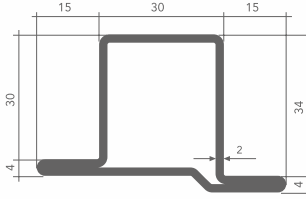
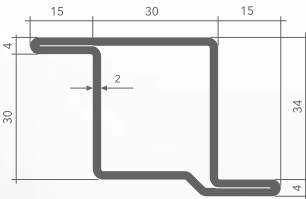
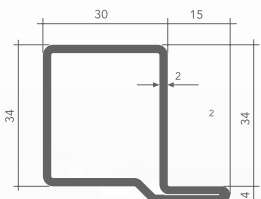
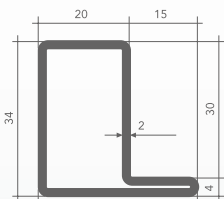
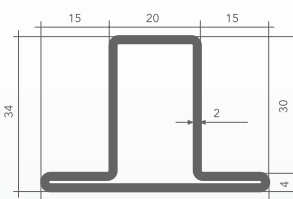
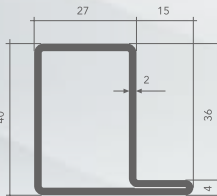
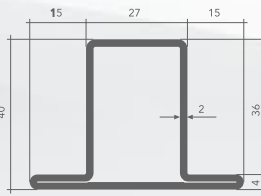
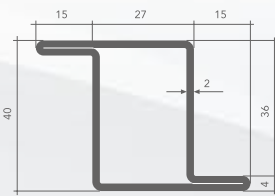
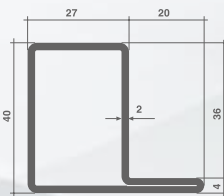
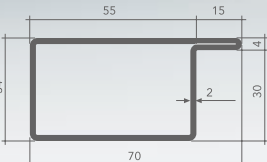
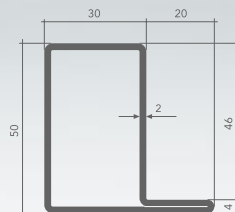
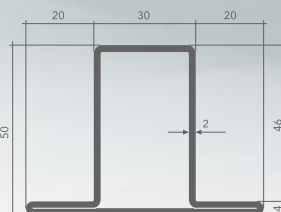
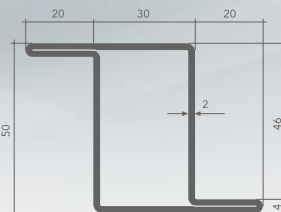
E4-RP1008 (PN) • 50%

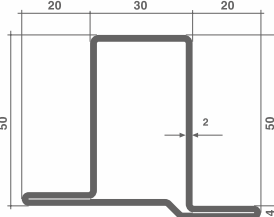
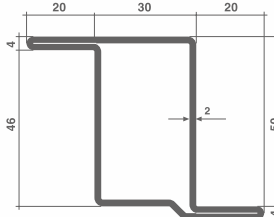
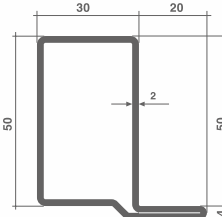
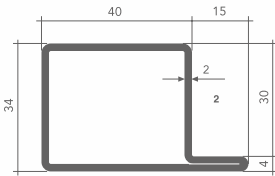
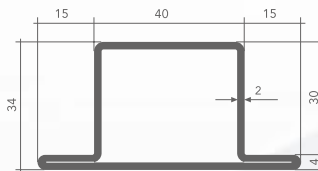
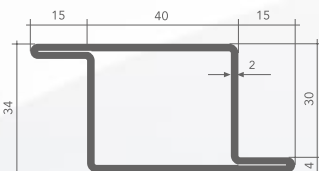
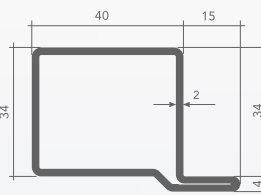
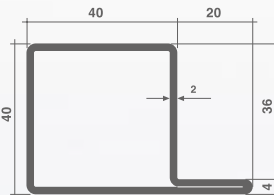
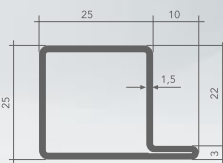


Thickness (mm)	kg/m
1,8	2,65

Marcegaglia manufactures a wide range of precision tubes EN 10305-3 S1, S2, S4 for windows: thanks to its versatility and efficiency, steel is the best choice in for constructions, to guarantee multiple shapes and every possible geometry.

Marcegaglia produce una vasta gamma di tubi di precisione EN 10305-3 S1, S2, S4 per serramenti: grazie alla sua versatilità ed efficienza, l'acciaio rappresenta la scelta migliore nel settore edilizio per garantire molteplici forme e ogni possibile geometria.

L30-34x15x2 • 55%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,3</td></tr></table>	Thickness (mm)	kg/m	2	2,3	T30-34x15x2 • 55%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,76</td></tr></table>	Thickness (mm)	kg/m	2	2,76	Z30-34x15x2 • 55%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,76</td></tr></table>	Thickness (mm)	kg/m	2	2,76	TD28-34x15x2 • 55%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,84</td></tr></table>	Thickness (mm)	kg/m	2	2,84
Thickness (mm)	kg/m																		
2	2,3																		
Thickness (mm)	kg/m																		
2	2,76																		
Thickness (mm)	kg/m																		
2	2,76																		
Thickness (mm)	kg/m																		
2	2,84																		
ZD28-34x15x2 • 55%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,84</td></tr></table>	Thickness (mm)	kg/m	2	2,84	LD30-34x15x2 • 55%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,38</td></tr></table>	Thickness (mm)	kg/m	2	2,38	L20-34x15x2 • 60%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>1,99</td></tr></table>	Thickness (mm)	kg/m	2	1,99	T20-34x15x2 • 60%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,45</td></tr></table>	Thickness (mm)	kg/m	2	2,45
Thickness (mm)	kg/m																		
2	2,84																		
Thickness (mm)	kg/m																		
2	2,38																		
Thickness (mm)	kg/m																		
2	1,99																		
Thickness (mm)	kg/m																		
2	2,45																		
L27-40x15x2 • 50%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,48</td></tr></table>	Thickness (mm)	kg/m	2	2,48	T27-40x15x2 • 50%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,85</td></tr></table>	Thickness (mm)	kg/m	2	2,85	Z27-40x15x2 • 50%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,85</td></tr></table>	Thickness (mm)	kg/m	2	2,85	L27-40x20x2 • 50%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,51</td></tr></table>	Thickness (mm)	kg/m	2	2,51
Thickness (mm)	kg/m																		
2	2,48																		
Thickness (mm)	kg/m																		
2	2,85																		
Thickness (mm)	kg/m																		
2	2,85																		
Thickness (mm)	kg/m																		
2	2,51																		
L55-34x15x2 • 40%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>3,07</td></tr></table>	Thickness (mm)	kg/m	2	3,07	L30-50x20x2 • 45%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,97</td></tr></table>	Thickness (mm)	kg/m	2	2,97	T30-50x20x2 • 45%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>3,58</td></tr></table>	Thickness (mm)	kg/m	2	3,58	Z30-50x20x2 • 45%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>3,58</td></tr></table>	Thickness (mm)	kg/m	2	3,58
Thickness (mm)	kg/m																		
2	3,07																		
Thickness (mm)	kg/m																		
2	2,97																		
Thickness (mm)	kg/m																		
2	3,58																		
Thickness (mm)	kg/m																		
2	3,58																		

TD30-50x20x2 • 45%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>3,67</td></tr></table>	Thickness (mm)	kg/m	2	3,67	ZD30-50x20x2 • 45%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>3,67</td></tr></table>	Thickness (mm)	kg/m	2	3,67	LD30-50x20x2 • 45%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>3,06</td></tr></table>	Thickness (mm)	kg/m	2	3,06	L40-34x15x2 • 50%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,6</td></tr></table>	Thickness (mm)	kg/m	2	2,6
Thickness (mm)	kg/m																		
2	3,67																		
Thickness (mm)	kg/m																		
2	3,67																		
Thickness (mm)	kg/m																		
2	3,06																		
Thickness (mm)	kg/m																		
2	2,6																		
T40x34x15x2 • 50%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>3,07</td></tr></table>	Thickness (mm)	kg/m	2	3,07	Z40x34x15x2 • 50%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>3,07</td></tr></table>	Thickness (mm)	kg/m	2	3,07	LD40x34x15x2 • 50%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,69</td></tr></table>	Thickness (mm)	kg/m	2	2,69	L40x40x20x2 • 50%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2</td><td>2,98</td></tr></table>	Thickness (mm)	kg/m	2	2,98
Thickness (mm)	kg/m																		
2	3,07																		
Thickness (mm)	kg/m																		
2	3,07																		
Thickness (mm)	kg/m																		
2	2,69																		
Thickness (mm)	kg/m																		
2	2,98																		
L25x25x10x1,5 • 60%  <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1,5</td><td>1,31</td></tr></table>	Thickness (mm)	kg/m	1,5	1,31															
Thickness (mm)	kg/m																		
1,5	1,31																		

SPECIAL SHAPES ARE ENGINEERED
ACCORDING TO CUSTOMER
SPECIFICATIONS
*ULTERIORI SAGOME SPECIALI
SONO STUDIATE E FORNITE
IN ACCORDO CON IL CLIENTE*



• Enlargement or reduction percentage of the drawings
Percentuale di ingrandimento o di riduzione dei disegni

STRUCTURAL TUBES
TUBI PER IMPIEGHI STRUTTURALI

EN 10219 EN 10210

Cost-efficiency, durability, versatility, recyclability: steel is the sustainable choice for contemporary architecture.

Marcegaglia reply to the sector’s requests with a wide range of **cold formed welded tubes for structural uses (CE homologation) and structural hollow sections of non-alloy and fine grain steels, hot finished or cold formed with heat treatments.**

Efficienza, durata, versatilità, riciclabilità: l'acciaio è la scelta sostenibile per l'architettura contemporanea.

Marcegaglia fornisce una vasta gamma di **tubi saldati formati a freddo per impieghi strutturali (omologazione CE) e di profilati cavi di acciai non legati e a grano fine, finiti a caldo o formati a freddo con trattamenti termici per impieghi strutturali speciali.**

DIMENSIONAL RANGE - GAMMA DIMENSIONALE

MIN. OUTSIDE DIAMETER - DIAMETRO ESTERNO MIN.	50 mm
MAX. OUTSIDE DIAMETER - DIAMETRO ESTERNO MAX.	406,4 mm
MIN. THICKNESS - SPESSORE MIN.	3 mm
MAX. THICKNESS - SPESSORE MAX.	16 mm

MANUFACTURING STANDARD <i>Norma di fabbricazione</i>	PRODUCT DESIGNATION <i>Designazione prodotto</i>	TREATMENT <i>Tipologie di trattamento</i>	GRADE <i>Qualità</i>
EN 10219	Cold formed welded structural tubes (CE homologation) <i>Tubi saldati formati a freddo per impieghi strutturali (omologazione CE)</i>		S235JRH, S275J0H S275J2H, S355J0H S355J2H, S355MH S420MH, S460MH
EN 10210-1	Structural hollow sections of non-alloy and fine grain steels, hot finished or cold formed and heat treated <i>Profilati cavi di acciai non legati e a grano fine per impieghi strutturali, finiti a caldo o formati a freddo con trattamenti termici</i>	Heat treatments <i>Trattamenti termici</i>	S235JRH, S275J0H S275J2H, S355J0H S355J2H, S335K2H S275NH, S355NH S420NH, S460NH
ASTM A500	Cold-formed welded and seamless carbon steel structural tubing in rounds and shapes <i>Tubi strutturali saldati a freddo e senza saldatura in acciaio al carbonio in forme rotonde e in altre forme</i>		B, C

COLOUR

Easier, faster to build and cheaper to paint, with about 20% less of the exposed surface.

Più semplice, più veloce da realizzare e meno costoso da dipingere, con circa il 20% in meno della superficie esposta.

BUILD

Better strength-to-weight ratio, compared to the use of similar products, for a more structural efficiency.

Migliore rapporto tra resistenza e peso rispetto all'utilizzo di prodotti simili, per un'efficienza più strutturale.

DESIGN

Different forms, architectures and engineering solutions.

Molteplici forme, architetture e soluzioni ingegneristiche.

FILL

Using the internal vacuum to increase the structural resistance, creating technical rooms for wires and cables, for lighter and optimized buildings.

Utilizzando il vuoto interno è possibile aumentare la resistenza della struttura, creare vani tecnici per inserire fili e cavi, per costruzioni più leggere e ottimizzate.

TUBES FOR MICROPILES
TUBI PER MICROPALI

Tubes for micropiles are structural foundation elements used in the building sector, for consolidation and foundations. Their main function is to transfer the load, applied to their top, to the deeper soil layers, in order to counteract the geostatic forces and to give stability to the structures in elevation. They are used to limit the structure's sagging, to protect the foundations of bridges that fall into the riverbed from erosion or even to create off-shore structures and underpinning interventions.

I tubi per micropali sono elementi strutturali di fondazione utilizzati nel settore edilizio nel consolidamento e nelle fondazioni. Hanno la funzione prevalente di trasferire il carico, applicato alla loro sommità, agli strati di terreno più profondi, in modo da contrastare le spinte geostatiche e di conferire stabilità alle strutture in elevazione. Sono utilizzati per limitare i cedimenti della struttura, difendere da fenomeni di erosione le fondazioni di ponti che ricadano in alveo o anche per realizzare strutture off-shore e interventi di sottofondazione.

MANUFACTURING STANDARD <i>Norma di fabbricazione</i>	PRODUCT DESIGNATION <i>Designazione prodotto</i>	GRADE <i>Qualità</i>
EN 10219-1	Cold formed welded structural hollow sections of non-alloy steels <i>Profilati cavi saldati formati a freddo per impieghi strutturali di acciai non legati</i>	SS235JHR S275J0H S275J2H S355J0H S355J2H
EN 10219-1	Cold formed welded structural hollow sections of fine grain steels <i>Profilati cavi saldati formati a freddo per impieghi strutturali di acciai a grano fine</i>	SS355MH S420MH S460MH

DIMENSIONAL RANGE
GAMMA DIMENSIONALE

CIRCULAR HOLLOW SECTIONS TUBI TONDI
THICKNESS SPESSORE

from 6 to 16,00 mm

DIAMETERS
DIAMETRI

from 76 to 406,4 mm

MARCEGAGLIA MANUFACTURES THE **LARGEST RANGE OF TUBES FOR MICROPILES IN THE WORLD.**
MARCEGAGLIA PRODUCE **LA GAMMA PIÙ VASTA AL MONDO** DI TUBI PER MICROPALI.

EN 10219 Cold formed welded structural tubes
Tubi saldati formati a freddo per impieghi strutturali



EN 10210-1 Structural hollow sections of non-alloy and fine grain steels, hot finished or cold formed and heat treated
Profilati cavi di acciai non legati e a grano fine per impieghi strutturali, finiti a caldo o formati a freddo con trattamenti termici

ROUND TUBES Tubi tondi														EN 10219 / EN 10210 - S235JRH, S275J0H/J2H, S355J0H/J2H												weight kg/m		
outside diameter mm	wall thickness mm														wall thickness mm													outside diameter mm
	3	4	4,2	4,5	4,7	5	5,6	6	6,3	6,6	7	7,6	8		8,6	9	9,6	10	10,5	11	11,5	12	12,5	13	14	14,2	16	
50	3,477	4,537	4,743	5,048	5,250	5,548	6,131	6,509	6,788	7,063	7,422	7,945	8,285														50	
54	3,772	4,931	5,157	5,492	5,713	6,041	6,683	7,101	7,410	7,714	8,112	8,695	9,074														54	
55	3,846	5,030	5,261	5,603	5,829	6,164	6,821	7,249	7,565	7,876	8,285	8,882	9,271														55	
63	4,438	5,819	6,089	6,491	6,756	7,150	7,926	8,433	8,808	9,178	9,665	10,381	10,849														63	
65	4,586	6,016	6,296	6,713	6,988	7,397	8,202	8,728	9,118	9,504	10,011	10,756	11,243														65	
70	4,956	6,509	6,814	7,268	7,567	8,013	8,892	9,468	9,895	10,317	10,874	11,693	12,230														70	
80	5,696	7,496	7,850	8,377	8,726	9,246	10,273	10,948	11,448	11,945	12,600	13,567	14,202														80	
83	5,918	7,792	8,160	8,710	9,074	9,616	10,687	11,391	11,914	12,433	13,117	14,129	14,794														83	
90	6,435	8,482	8,885	9,487	9,885	10,479	11,654	12,427	13,002	13,572	14,326	15,441	16,175														90	
100	7,175	9,468	9,921	10,596	11,044	11,712	13,035	13,906	14,555	15,199	16,052	17,315	18,147														100	
108	7,767	10,257	10,749	11,484	11,971	12,698	14,139	15,090	15,798	16,501	17,432	18,814	19,725														108	
110	7,915	10,454	10,956	11,706	12,203	12,945	14,415	15,386	16,108	16,827	17,777	19,189	20,120														110	
120	8,655	11,441	11,992	12,815	13,362	14,178	15,796	16,865	17,662	18,454	19,503	21,063	22,092														120	
121	8,728	11,539	12,096	12,926	13,478	14,301	15,934	17,013	17,817	18,617	19,676	21,250	22,290														121	
130	9,394	12,427	13,028	13,925	14,521	15,410	17,177	18,345	19,215	20,081	21,229	22,937	24,065														130	
133	9,616	12,723	13,338	14,258	14,868	15,780	17,591	18,788	19,681	20,570	21,747	23,499	24,657														133	
146	10,578	14,005	14,685	15,700	16,375	17,383	19,386	20,712	21,701	22,685	23,991	25,935	27,221														146	
148	10,726	14,202	14,892	15,922	16,607	17,630	19,662	21,008	22,011	23,011	24,336	26,310	27,616														148	
159	11,539	15,287	16,031	17,143	17,881	18,986	21,181	22,635	23,720	24,801	26,235	28,371	29,785														159	
168,30	12,227	16,204	16,994	18,174	18,959	20,132	22,465	24,011	25,165	26,314	27,840	30,114	31,620														168,30	
173	12,575	16,668	17,481	18,696	19,504	20,712	23,114	24,706	25,895	27,079	28,651	30,994	32,547														173	
177,80	12,930	17,141	17,978	19,229	20,060	21,303	23,777	25,416	26,640	27,860	29,480	31,894	33,494														177,80	
203	14,809	19,646	20,608	22,047	23,003	24,435	27,284	29,174	30,586	31,994	33,864	36,654	38,504														203	

ROUND TUBES <i>Tubi tondi</i>														EN 10219 / EN 10210 - S235JRH, S275J0H/J2H, S355J0H/J2H												inches dimensions	weight kg/m
outside diameter mm - inches	wall thickness mm													wall thickness mm													outside diameter mm
	3	4	4,2	4,5	4,7	5	5,6	6	6,3	6,6	7	7,6	8	8,6	9	9,6	10	10,5	11	11,5	12	12,5	13	14	14,2	16	
48,3 - 1½"	3,351	4,369	4,567	4,860	5,053	5,338	5,896	6,258	6,524	6,786	7,128	7,627	7,949														48,3 - 1½"
50,8 - 2"	3,536	4,635	4,847	5,159	5,366	5,671	6,269	6,657	6,944	7,225	7,594	8,133	8,482														50,8 - 2"
60,30 - 2"	4,238	5,553	5,810	6,191	6,443	6,818	7,553	8,033	8,388	8,739	9,199	9,876	10,316	10,963	11,384	12,001	12,402										60,30 - 2"
76,1 - 2½"	5,407	7,111	7,446	7,944	8,274	8,765	9,734	10,371	10,843	11,310	11,926	12,836	13,433	14,313	14,890	15,741	16,298										76,1 - 2½"
88,9 - 3½"	6,354	8,373	8,771	9,365	9,758	10,343	11,502	12,264	12,831	13,393	14,136	15,235	15,958	17,027	17,731	18,771	19,454	20,297	21,128	21,947	22,753	23,547	24,329				88,9 - 3½"
101,60 - 4"	7,293	9,626	10,087	10,774	11,229	11,909	13,255	14,143	14,804	15,460	16,328	17,615	18,463	19,720	20,549	21,777	22,586	23,585	24,573	25,548	26,511	27,461	28,400				101,60 - 4"
114,30 - 4½"	8,233	10,879	11,402	12,183	12,701	13,475	15,009	16,022	16,776	17,526	18,520	19,995	20,968	22,413	23,367	24,783	25,717	26,873	28,017	29,149	30,269	31,376	32,470	34,623			114,30 - 4½"
127 - 5"	9,172	12,131	12,717	13,592	14,173	15,041	16,763	17,901	18,749	19,593	20,712	22,374	23,473	25,106	26,185	27,789	28,848	30,161	31,462	32,750	34,026	35,290	36,541	39,007			127 - 5"
139,70 - 5½"	10,112	13,384	14,032	15,001	15,645	16,606	18,516	19,780	20,722	21,660	22,904	24,754	25,978	27,799	29,004	30,795	31,980	33,449	34,906	36,351	37,784	39,204	40,612	43,391			139,70 - 5½"
152,40 - 6"	11,051	14,636	15,347	16,410	17,116	18,172	20,270	21,658	22,695	23,727	25,096	27,134	28,483	30,492	31,822	33,801	35,111	36,737	38,351	39,952	41,542	43,118	44,683	47,775	48,387	53,811	152,40 - 6"
193,70 - 7"	14,106	18,710	19,624	20,993	21,903	23,264	25,972	27,768	29,110	30,448	32,224	34,873	36,630	39,250	40,987	43,577	45,294	47,430	49,553	51,663	53,761	55,847	57,921	62,031	62,847	70,104	193,70 - 7"
219,10 - 8"	15,985	21,215	22,255	23,811	24,846	26,395	29,480	31,526	33,056	34,581	36,608	39,633	41,640	44,636	46,623	49,590	51,557	54,006	56,442	58,865	61,277	63,676	66,063	70,799	71,741	80,124	219,10 - 8"
244,60 - 9"	17,871	23,730	24,895	26,640	27,801	29,539	33,001	35,299	37,017	38,731	41,009	44,412	46,670	50,043	52,282	55,626	57,845	60,607	63,358	66,096	68,822	71,535	74,236	79,602	80,669	90,184	244,60 - 9"
273 - 10"	19,972	26,531	27,836	29,791	31,092	33,040	36,922	39,500	41,428	43,352	45,911	49,734	52,272	56,065	58,584	62,348	64,847	67,960	71,061	74,149	77,225	80,288	83,340	89,405	90,612	101,388	273 - 10"
323,90 - 12"			33,108	35,439	36,991	39,315	43,950	47,030	49,335	51,636	54,696	59,272	62,312	66,859	69,880	74,396	77,397	81,138	84,866	88,582	92,285	95,976	99,655	106,976	108,434	121,469	323,90 - 12"
355,60 - 14"			36,390	38,956	40,665	43,223	48,327	51,720	54,259	56,794	60,167	65,212	68,565	73,581	76,914	81,900	85,214	89,345	93,464	97,570	101,665	105,746	109,816	117,918	119,533	133,975	355,60 - 14"
406,40 - 16"			41,651	44,593	46,552	49,486	55,341	59,235	62,150	65,061	68,935	74,731	78,586	84,353	88,187	93,924	97,739	102,497	107,242	111,975	116,695	121,403	126,099	135,454	137,319	154,016	406,40 - 16"

EN 10219 Cold formed welded structural tubes
Tubi saldati formati a freddo per impieghi strutturali



EN 10210-1 Structural hollow sections of non-alloy and fine grain steels, hot finished or cold formed and heat treated
Profilati cavi di acciai non legati e a grano fine per impieghi strutturali, finiti a caldo o formati a freddo con trattamenti termici

weight kg/m

external dimensions		wall thickness mm									
A x A mm	4	5	6	7	8	9,6	10	12	12,5	14	16
50 x 50	5,454	6,559									
53 x 53	5,830										
54 x 54	5,956	7,187									
55 x 55	6,082	7,344									
59,3 x 59,3											
60 x 60	6,710	8,129									
63,5 x 63,5	7,149	8,678									
64 x 64	7,212	8,757									
65 x 65	7,338	8,914	10,386								
67 x 67	7,589	9,228									
70 x 70	7,966	9,699	11,328								
73 x 73	8,342	10,170									
75 x 75	8,594	10,484	12,270								
80 x 80	9,222	11,269	13,212	14,722	16,358						
90 x 90	10,478	12,839	15,096	16,920	18,870						
100 x 100	11,734	14,409	16,980	19,118	21,382	24,761	25,560	28,298			
110 x 110	12,990	15,979	18,864	21,316							
120 x 120	14,246	17,549	20,748	23,514	26,406	30,790	31,840	35,834			
125 x 125	14,874	18,334	21,690	24,613	27,662						
130 x 130	15,502	19,119	22,632	25,712	28,918						
140 x 140	16,758	20,689	24,516	27,910	31,430	36,819	38,120	43,370			
150 x 150	18,014	22,259	26,400	30,108	33,942	39,833	41,260	47,138	48,695	53,170	
160 x 160	19,270	23,829	28,284	32,306	36,454	42,848	44,400	50,906	52,620	57,566	
175 x 175	21,154	26,184	31,110	35,603	40,222						
180 x 180	21,782	26,969	32,052	36,702	41,478	48,877	50,680	58,442	60,470	66,358	73,752
200 x 200	24,294	30,109	35,820	41,098	46,502	54,905	56,960	65,978	68,320	75,150	83,800
220 x 220	26,806	33,249	39,588	45,494	51,526	60,934	63,240	73,514	76,170	83,942	93,848
250 x 250		37,959	45,240	52,088	59,062	69,977	72,660	84,818	87,945	97,130	108,920
260 x 260		39,529	47,124	54,286	61,574	72,992	75,800	88,586	91,870	101,526	113,944
300 x 300		45,809	54,660	63,078	71,622	85,049	88,360	103,658	107,570	119,110	134,040
325 x 325		49,734	59,370	68,573	77,902	92,585	96,210	113,078	117,382	130,100	146,600

inches dimensionsweight kg/m

external dimensions		wall thickness mm									
A x A mm - inch	4	5	6	7	8	9,6	10	12	12,5	14	16
50,8 x 50,8 - 2" x 2"	5,554	6,684									
76,2 x 76,2 - 3" x 3"	8,744	10,672	12,497								
88,9 x 88,9 - 3½" x 3½"	10,339	12,666	14,889								
101,6 x 101,6 - 4" x 4"	11,935	14,660	17,282	19,470							
127 x 127 - 5" x 5"	15,125	18,648	22,067	25,053	28,165						
152,4 x 152,4 - 6" x 6"	18,315	22,635	26,853	30,636	34,545						

weight kg/m

external dimensions		wall thickness mm									
A x B mm	4	5	6	7	8	9	10	12	12,5	14	16
40 x 20	2,942										
50 x 30	4,198										
60 x 40	5,454	6,559									
60 x 50	6,082	7,344									
70 x 30	5,454										
70 x 35	5,768										
70 x 40	6,082	7,344									
70 x 50	6,710	8,129									
80 x 40	6,710	8,129									
80 x 50	7,338	8,914									
80 x 60	7,966	9,699	11,328								
90 x 40	7,338	8,914	10,386								
90 x 50	7,966	9,699	11,328								
100 x 30	7,338										
100 x 40	7,966	9,699	11,328								
100 x 50	8,594	10,484	12,270								
100 x 60	9,222	11,269	13,212	14,722	16,358						
100 x 80	10,478	12,839	15,096	16,920	18,870						
110 x 50	9,222	11,269	13,212								
120 x 40	9,222	11,269	13,212								
120 x 50	9,850	12,054	14,154								
120 x 60	10,478	12,839	15,096	16,920	18,870						
120 x 80	11,734	14,409	16,980	19,118	21,382						
140 x 60	11,734	14,409	16,980	19,118							
140 x 70	12,362	15,194	17,922	20,217	22,638						
140 x 80	12,990	15,979	18,864	21,316	23,894						
150 x 50	11,734	14,409	16,980								
150 x 100	14,874	18,334	21,690	24,613	27,662	30,594	33,410	37,718			
160 x 80	14,246	17,549	20,748	23,514	26,406						
160 x 90	14,874	18,334	21,690	24,613	27,662	30,594	33,410	37,718			
180 x 80	15,502	19,119	22,632	25,712	28,918						
180 x 100	16,758	20,689	24,516	27,910	31,430	34,833	38,120	43,370	44,770	48,774	
200 x 80	16,758	20,689	24,516	27,910	31,430						
200 x 100	18,014	22,259	26,400	30,108	33,942	37,659	41,260	47,138	48,695	53,170	
200 x 120	19,270	23,829	28,284	32,306	36,454	40,485	44,400	50,906	52,620	57,566	
200 x 150	21,154	26,184	31,110	35,603	40,222	44,724	49,110	56,558			
250 x 100	21,154	26,184	31,110	35,603	40,222	44,724	49,110	56,558			
250 x 150	24,294	30,109	35,820	41,098	46,502	51,789	56,960	65,978	68,320	75,150	83,800
260 x 140	24,294	30,109	35,820	41,098	46,502	51,789	56,960	65,978	68,320	75,150	83,800
300 x 100	24,294	30,109	35,820	41,098	46,502	51,789	56,960	65,978	68,320	75,150	83,800
300 x 150	27,434	34,034	40,530	46,593	52,782	58,854	64,810	75,398	78,132	86,140	96,360
300 x 200		37,959	45,240	52,088	59,062	65,919	72,660	84,818	87,945	97,130	108,920
350 x 150		37,959	45,240	52,088	59,062	65,919	72,660	84,818	87,945	97,130	108,920
350 x 250		45,809	54,660	63,078	71,622	80,049	88,360	103,658	107,570	119,110	134,040
400 x 200		45,809	54,660	63,078	71,622	80,049	88,360	103,658	107,570	119,110	134,040
400 x 250		49,734	59,370	68,573	77,902	87,114	96,210	113,078	117,382	130,100	146,600

Tubes for pressure purposes are distinguished according to the type of fluid conveyed, the mass of the fluid contained and the operating pressure, which determines the use of alloyed or unalloyed carbon steels, according to the manufacturing standards EN 10217-1 (ambient temperature), EN 10217-2 (high temperatures). They have multiple applications such as heat exchangers, heating and ventilation, gas and water pipes and all the chemical industry sector.

I tubi per impieghi a pressione si distinguono in funzione del tipo di fluido convogliato, della massa del fluido contenuto e della pressione di esercizio, che determina l'utilizzo di acciai al carbonio legati o non legati seguendo le norme di produzione EN 10217-1 (temperatura ambiente), EN 10217-2 (alte temperature), trovando molteplici applicazioni come scambiatori di calore, riscaldamento e ventilazione, tubazioni del gas e dell'acqua e tutto il settore dell'industria chimica.

DIMENSIONAL RANGE - GAMMA DIMENSIONALE

MIN. OUTSIDE DIAMETER - DIAMETRO ESTERNO MIN.	21,25 mm
MAX. OUTSIDE DIAMETER - DIAMETRO ESTERNO MAX.	406,4 mm
MIN. THICKNESS - SPESSORE MIN.	1,8 mm
MAX. THICKNESS - SPESSORE MAX.	16 mm

MANUFACTURING STANDARD <i>Norma di fabbricazione</i>	PRODUCT DESIGNATION <i>Designazione prodotto</i>	TREATMENT <i>Tipologie di trattamento</i>	GRADE <i>Qualità</i>	STEEL QUALITY <i>Qualità di acciaio</i>
EN 10217-1	Tubes for pressure purposes, for use at room temperature <i>Tubi per impieghi a pressione, per utilizzi a temperatura ambiente</i>	Heat treatments upon request <i>Trattamenti termici su richiesta</i>	P195 P235 P265	TR1 TR2 TR1 TR2 TR1 TR2
EN 10217-2	Tubes for pressure purposes, for use at high temperatures <i>Tubi per impieghi a pressione, per utilizzi a temperature elevate</i>		P195GH P235GH P265GH	TEST CATEGORY <i>Categoria di test</i> TC1 TC2
ASTM A53 A53M	Black and zinc-coated, welded and seamless tubes for structural steel or for low-pressure plumbing. <i>Tubi neri, zincati con e senza saldatura per impieghi strutturali o per impianti idraulici a bassa pressione</i>		A, B	
ASTM A178 A178M	Electric-resistance-welded carbon steel tubes and carbon-manganese steel boiler and superheater tubes <i>Tubi in acciaio al carbonio saldati a resistenza elettrica e tubi in acciaio al manganese e surriscaldatori in acciaio al carbonio</i>		A, C	



Marcegaglia tubes for pressure purposes complies to ASTM A53 standards for steel, black and hot-dipped, zinc-coated, welded and seamless pipes. This manufacturing standard is used for low pressure liquid delivery, such as water, gas, oil drilling. In addition, Marcegaglia tubes for pressure purposes complies to ASTM A178 standards regarding electric-resistance-welded tubes made of carbon steel and carbon-manganese steel intended for boiler tubes, boiler flues, superheater flues, and safe ends.

I tubi Marcegaglia per impieghi a pressione rispondono ai requisiti della norma ASTM A53 per tubi in acciaio, neri e a caldo, zincati, con o senza saldatura. Questo standard di fabbricazione è utilizzato per tubi per liquidi a bassa pressione, come acqua, gas, trivellazioni petrolifere. Inoltre, i tubi Marcegaglia per impieghi a pressione sono conformi alla norma ASTM A178 relativa a tubi e surriscaldatori in acciaio al carbonio saldati a resistenza elettrica e ai tubi in acciaio al manganese.

Steel pipes for pipelines for combustible fluids are regulated by EN 10208-1 standards which specifies the technical conditions of supply. These are seamless and welded steel pipes used for the transport of combustible fluids on the ground and mainly used in gas supply systems.

I tubi per condotte di fluidi combustibili sono disciplinati dalla norma EN 10208-1 che specifica le condizioni tecniche di fornitura. Si tratta di tubi di acciaio senza saldatura e saldati utilizzati per il trasporto di fluidi combustibili su terreno e impiegati principalmente nei sistemi di fornitura del gas.

DIMENSIONAL RANGE
GAMMA DIMENSIONALE

DIAMETERS DIAMETRI
from 21,25 to 406,4 mm

THICKNESS SPESSORE
from 1,8 to 16,00 mm

MANUFACTURING STANDARD <i>Norma di fabbricazione</i>	PRODUCT DESIGNATION <i>Designazione prodotto</i>	GRADE <i>Qualità</i>
EN 10208-1	Steel pipes for pipelines for combustible fluids <i>Tubi per condotte di fluidi combustibili</i>	L235GA L290GA L360GA

OPTIONAL PROCESSING <i>Lavorazioni opzionali</i>
Complete normalization or weld area normalization - <i>Normalizzazione completa o della sola zona di saldatura</i>
Additional heat treatments - <i>Trattamenti termici aggiuntivi</i>
Weld seam removing - <i>Scordonatura interna</i>
Special end finishing - <i>Finiture speciali delle estremità</i>
Cut to length - <i>Taglio a misura</i>
Customer defined marking - <i>Marcatore alternative</i>
Specific corrosion protection - <i>Protezione anticorrosiva specifica</i>



Tubes for the conveyance of water and other aqueous liquids are made of non-alloy steel and can be welded or without welding. They are regulated by EN 10224 standards which involves industrial water transportation and distribution systems. Marcegaglia answers to the market needs by offering a wide range carbon steel tubes, in steel grades L235, L275, L355 and of multiple sizes.

I tubi per il convogliamento di acqua e altri liquidi acquosi sono tubi realizzati in acciaio non legato e possono essere saldati o senza saldatura. Sono regolati dalla norma EN 10224 e concernono sistemi di trasporto e distribuzione di acqua industriale. Marcegaglia è in grado di rispondere alle esigenze del settore offrendo un’ampia gamma di tubi in acciaio al carbonio, nelle qualità L235, L275, L355, in molteplici dimensioni.

DIMENSIONAL RANGE - GAMMA DIMENSIONALE

MIN. OUTSIDE DIAMETER - DIAMETRO ESTERNO MIN. 21,25 mm
MAX. OUTSIDE DIAMETER - DIAMETRO ESTERNO MAX. 406,4 mm

MIN. THICKNESS - SPESSORE MIN. 1,8 mm
MAX. THICKNESS - SPESSORE MAX. 16 mm

MANUFACTURING STANDARD <i>Norma di fabbricazione</i>	PRODUCT DESIGNATION <i>Designazione prodotto</i>	GRADE <i>Qualità</i>
EN 10224	Tubes for the conveyance of water and other aqueous liquids <i>Tubi per il convogliamento di acqua e altri liquidi acquosi</i>	L235 L275 L355

OPTIONAL PROCESSING

Lavorazioni opzionali

Complete normalization or weld area normalization - Normalizzazione completa o della sola zona di saldatura

Additional heat treatments - Trattamenti termici aggiuntivi

Weld seam removing - Scordonatura interna

Special end finishing - Finiture speciali delle estremità

Cut to length - Taglio a misura

Customer defined marking - Marcature alternative

Specific corrosion protection - Protezione anticorrosiva specifica



S

B

ROUND TUBES

Tubi tondi

EN 10217-1, -2 / EN 10208-1 / EN 10224

weight kg/m

outside diameter (mm)	wall thickness mm												wall thickness mm											outside diameter (mm)
	1,8	2,1	2,3	2,6	2,9	3,2	3,6	4	4,2	4,5	5		5,6	6	6,3	7,1	8	10	11	12,5	14,2	16		
22	0,897	1,030	1,117	1,244	1,366																		22	
23	0,941	1,082	1,174	1,308	1,437																		23	
25	1,030	1,186	1,287	1,436	1,580																		25	
28	1,163	1,341	1,457	1,628	1,795	1,957	2,166	2,367															28	
29	1,207	1,393	1,514	1,692	1,866	2,036	2,255	2,466															29	
30	1,252	1,445	1,571	1,757	1,938	2,115	2,343	2,564															30	
31,8	1,331	1,538	1,673	1,872	2,066	2,257	2,503	2,742	2,858	3,029	3,304		3,618										31,8	
32	1,340	1,548	1,684	1,885	2,081	2,272	2,521	2,762	2,879	3,051	3,329		3,645										32	
35	1,473	1,704	1,854	2,077	2,295	2,509	2,787	3,057															35	
38	1,607	1,859	2,025	2,269	2,510	2,746	3,053	3,353	3,500	3,717	4,068		4,474	4,734									38	
39	1,651	1,911	2,081	2,334	2,581	2,825	3,142	3,452	3,604	3,828	4,192		4,612	4,882									39	
40	1,695	1,962	2,138	2,398	2,653	2,904	3,231	3,551	3,707	3,939	4,315		4,750	5,030	5,235								40	
44,5	1,895	2,195	2,393	2,686	2,975	3,259	3,630	3,994	4,173	4,438	4,870		5,371	5,696									44,5	
50	2,139	2,480	2,705	3,039	3,368	3,693	4,119	4,537	4,743	5,048	5,548		6,131	6,509	6,788	7,510	8,285						50	
51	2,184	2,532	2,762	3,103	3,439	3,771	4,207	4,635	4,847	5,159	5,671		6,269	6,657	6,944	7,685	8,482						51	
52	2,228	2,584	2,819	3,167	3,511	3,850	4,296	4,734	4,950	5,270	5,794		6,407	6,805	7,099	7,860	8,679						52	
54	2,317	2,687	2,932	3,295	3,654	4,008	4,474	4,931	5,157	5,492	6,041		6,683	7,101	7,410	8,210	9,074						54	
55	2,361	2,739	2,989	3,359	3,725	4,087	4,562	5,030	5,261	5,603	6,164		6,821	7,249	7,565	8,385	9,271						55	
56	2,406	2,791	3,045	3,423	3,797	4,166	4,651	5,129	5,364	5,714	6,287		6,959	7,397	7,720	8,561	9,468						56	
57	2,450	2,843	3,102	3,487	3,868	4,245	4,740	5,227	5,468	5,825	6,411		7,097	7,545		8,736							57	
63	2,716	3,153	3,442	3,872	4,297	4,718	5,273	5,819	6,089	6,491	7,150		7,926	8,433	8,808	9,786	10,849	13,068					63	
65	2,805	3,257	3,556	4,000	4,440	4,876	5,450	6,016	6,296	6,713	7,397		8,202	8,728	9,118	10,136	11,243	13,561					65	
68	2,938	3,412	3,726	4,193	4,655	5,113	5,716	6,312	6,607	7,046	7,767		8,616	9,172	9,584	10,661	11,835	14,301					68	
70	3,027	3,516	3,839	4,321	4,798	5,271	5,894	6,509	6,814	7,268	8,013		8,892	9,468	9,895	11,011	12,230	14,794	16,002				70	
73	3,160	3,671	4,009	4,513	5,012	5,507	6,160	6,805	7,125	7,600	8,383		9,306	9,912		11,537							73	
75	3,249	3,775	4,123	4,641	5,155	5,665	6,338	7,003	7,332	7,822	8,630		9,583	10,208	10,672	11,887	13,216	16,027					75	
80	3,471	4,034	4,406	4,962	5,513	6,060	6,782	7,496	7,850	8,377	9,246		10,273	10,948	11,448	12,762	14,202	17,260					80	
82,5	3,582	4,163	4,548	5,122	5,692	6,257	7,003	7,742	8,109	8,655	9,554		10,618	11,317	11,837	13,200	14,695	17,876	19,392	21,575			82,5	
87	3,781	4,396	4,803	5,411	6,014	6,612	7,403	8,186	8,575	9,154	10,109		11,240	11,983		13,987							87	
95	4,136	4,810	5,257	5,924	6,586	7,243	8,113	8,975	9,403	10,041	11,096		12,344	13,167	13,778	15,388	17,161						95	
96		4,862	5,314	5,988	6,657	7,322	8,202	9,074	9,507	10,152	11,219		12,482	13,315	13,934	15,563	17,358						96	
100	4,358	5,069	5,541	6,244	6,943	7,638	8,557	9,468	9,921	10,596	11,712		13,035	13,906	14,555	16,263	18,147	22,191	24,139	26,968			100	
108	4,713	5,483	5,994	6,757	7,515	8,269	9,267	10,257	10,749	11,484	12,698		14,139	15,090	15,798	17,664	19,725	24,164	26,309	29,434			108	
110	4,802	5,587	6,108	6,885	7,658	8,427	9,445	10,454	10,956	11,706	12,945		14,415	15,386	16,108	18,014	20,120	24,657	26,851	30,050			110	
115		5,846	6,391	7,206	8,016	8,821	9,888	10,948	11,474	12,261	13,561		15,106	16,125	16,885	18,889	21,106	25,890	28,207	31,591			115	
120		6,105	6,675	7,526	8,373	9,216	10,332	11,441	11,992	12,815	14,178		15,796	16,865	17,662	19,765	22,092	27,122	29,563	33,132			120	
121		6,157	6,732	7,590	8,445	9,295	10,421	11,539	12,096	12,926	14,301		15,934	17,013	17,817	19,940	22,290	27,369	29,835	33,441			121	
130			7,242	8,167	9,088	10,005	11,220	12,427	13,028	13,925	15,410		17,177	18,345	19,215	21,515	24,065	29,588	32,276	36,215			130	
133			7,412	8,360	9,303	10,241	11,486	12,723	13,338	14,258	15,780		17,591	18,788	19,681	22,040	24,657	30,328	33,089	37,139			133	
141,30			7,883	8,892	9,896	10,896	12,223	13,541	14,198	15,179	16,804		18,737	20,016	20,971	23,493	26,294	32,374					141,30	
146				9,193	10,232	11,267	12,640	14,005	14,685	15,700	17,383		19,386	20,712	21,701	24,316	27,221	33,533					146	
148			8,263	9,321	10,375	11,425	12,818	14,202	14,892	15,922	17,630		19,662	21,008	22,011	24,666	27,616	34,026	37,158	41,762	46,847	52,075	148	
150				9,449	10,518	11,583	12,995	14,400	15,099	16,144	17,876		19,938	21,303	22,322	25,016	28,010	34,519					150	
159			8,887	10,026	11,162	12,293	13,794	15,287	16,031	17,143	18,986		21,181	22,635	23,720	26,592	29,785	36,738	40,141	45,153	50,698	56,415	159	
168,30					11,827	13,027	14,619	16,204	16,994	18,174	20,132		22,465	24,011	25,165	28,220	31,620	39,032	42,663	48,019	53,954	60,083	168,30	
170					11,948	13,161	14,770	16,372	17,170	18,363	20,342		22,700	24,262	25,429	28,518	31,955	39,451					170	
177,80					12,506	13,776	15,463	17,141	17,978	19,229	21,303		23,777	25,416	26,640	29,883	33,494	41,374	45,240	50,947	57,280	63,831	177,80	
186,50					13,128	14,463	16,235	17,999	18,879	20,194	22,376		24,978	26,703	27,992	31,406	35,210	43,519	47,600	53,628	60,327	67,263	186,50	
203					14,322	15,780	17,717	19,646	20,608	22,047	24,435		27,284	29,174	30,586	34,330	38,504	47,637	52,129	58,775	66,174	73,852	203	



ROUND TUBES EN 10217-1, -2 / EN 10208-1 / EN 10224 INCHES DIMENSIONS

Tubi tondi EN 10217-1, -2 / EN 10208-1 / EN 10224 DIMENSIONI IN POLLICI

weight kg/m

EN 10217-1, -2 / EN 10208-1 / EN 10224

outside diameter mm - inches	wall thickness mm												wall thickness mm										outside diameter (mm)
	1,8	2,1	2,3	2,6	2,9	3,2	3,6	4	4,2	4,5	5		5,6	6	6,3	7,1	8	10	11	12,5	14,2	16	
21,25 - ½"	0,863	0,992	1,075	1,196	1,312																		21,25 - ½"
25,40 - 1"	1,047	1,206	1,310	1,462	1,609																		25,40 - 1"
26,75 - ¾"	1,107	1,276	1,387	1,548	1,705																		26,75 - ¾"
33,4 - 1 1/8"	1,402	1,621	1,764	1,975	2,181	2,383	2,645	2,900	3,024	3,207	3,501		3,839	4,054									33,4 - 1 1/8"
42,4 - 1 1/4"	1,802	2,087	2,274	2,551	2,824	3,093	3,444	3,787	3,956	4,205	4,611		5,081	5,385	5,608								42,4 - 1 1/4"
48,3 - 1 1/2"	2,064	2,392	2,609	2,930	3,246	3,558	3,968	4,369	4,567	4,860	5,338		5,896	6,258	6,524	7,213	7,949						48,3 - 1 1/2"
60,30 - 2"	2,596	3,014	3,289	3,699	4,104	4,505	5,033	5,553	5,810	6,191	6,818		7,553	8,033	8,388	9,313	10,316	12,402					60,30 - 2"
76,1 - 2 1/2"	3,298	3,832	4,185	4,712	5,234	5,752	6,435	7,111	7,446	7,944	8,765		9,734	10,371	10,843	12,079	13,433	16,298					76,1 - 2 1/2"
88,9 - 3 1/2"	3,866	4,494	4,911	5,532	6,149	6,762	7,572	8,373	8,771	9,365	10,343		11,502	12,264	12,831	14,320	15,958	19,454	21,128	23,547			88,9 - 3 1/2"
101,60 - 4"	4,429	5,152	5,631	6,347	7,057	7,764	8,699	9,626	10,087	10,774	11,909		13,255	14,143	14,804	16,543	18,463	22,586	24,573	27,461			101,60 - 4"
114,30 - 4 1/2"	4,993	5,810	6,352	7,161	7,966	8,766	9,826	10,879	11,402	12,183	13,475		15,009	16,022	16,776	18,767	20,968	25,717	28,017	31,376			114,30 - 4 1/2"
127 - 5"		6,467	7,072	7,975	8,874	9,768	10,953	12,131	12,717	13,592	15,041		16,763	17,901	18,749	20,990	23,473	28,848	31,462	35,290			127 - 5"
139,70 - 5 1/2"			7,792	8,789	9,782	10,770	12,081	13,384	14,032	15,001	16,606		18,516	19,780	20,722	23,213	25,978	31,980	34,906	39,204			139,70 - 5 1/2"
152,40 - 6"			8,512	9,603	10,690	11,772	13,208	14,636	15,347	16,410	18,172		20,270	21,658	22,695	25,437	28,483	35,111	38,351	43,118	48,387	53,811	152,40 - 6"
193,70 - 7"					13,643	15,031	16,874	18,710	19,624	20,993	23,264		25,972	27,768	29,110	32,667	36,630	45,294	49,553	55,847	62,847	70,104	193,70 - 7"
219,10 - 8"					15,459	17,035	19,129	21,215	22,255	23,811	26,395		29,480	31,526	33,056	37,113	41,640	51,557	56,442	63,676	71,741	80,124	219,10 - 8"
244,60 - 9"					17,283	19,047	21,392	23,730	24,895	26,640	29,539		33,001	35,299	37,017	41,577	46,670	57,845	63,358	71,535	80,669	90,184	244,60 - 9"
273 - 10"					19,313	21,288	23,913	26,531	27,836	29,791	33,040		36,922	39,500	41,428	46,549	52,272	64,847	71,061	80,288	90,612	101,388	273 - 10"
323,90 - 12"									33,108	35,439	39,315		43,950	47,030	49,335	55,460	62,312	77,397	84,866	95,976	108,434	121,469	323,90 - 12"
355,60 - 14"									36,390	38,956	43,223		48,327	51,720	54,259	61,009	68,565	85,214	93,464	105,746	119,533	133,975	355,60 - 14"
406,40 - 16"									41,651	44,593	49,486		55,341	59,235	62,150	69,902	78,586	97,739	107,242	121,403	137,319	154,016	406,40 - 16"



OIL COUNTRY TUBULAR GOODS (OCTG)
TUBI PER L'ESTRAZIONE PETROLIFERA (OCTG)

API 5CT, API 5L

OCTG Country Tubular Goods are standardized by API, American Petroleum Institute and there are three main types of OCTG tubes, which includes **drill pipes**, **casing pipes** and **tubing pipes**.

Drill pipes are seamless tubes manufactured to transfer drilling torque the entire length of the pipe, often several kilometers.

Casing pipes are tubes used to line the borehole, which is the actual hole dug into the ground to get to the oil.

Tubing pipes are tubes that goes inside the casing pipe, for delivery the oil and gas to the surface.

*I tubi **OCTG** rispondono alle esigenze dell'API, l'American Petroleum Institute e si distinguono in tre principali categorie, che includono tubi di **perforazione**, tubi di **rivestimento** e tubi per il **trasporto**.*

*I tubi di **perforazione** sono tubi generalmente senza saldatura, realizzati per la perforazione lungo l'intera lunghezza del tubo, spesso diverse miglia.*

*I tubi di **rivestimento** sono utilizzati per rivestire il foro, scavato nel terreno per raggiungere il petrolio o il gas.*

*I tubi per il **trasporto** sono i condotti che vengono inseriti all'interno del tubo di rivestimento, per il trasporto in superficie di petrolio e gas.*

DIMENSIONAL RANGE - GAMMA DIMENSIONALE

MIN. OUTSIDE DIAMETER - DIAMETRO ESTERNO MIN. 21,25 mm
MAX. OUTSIDE DIAMETER - DIAMETRO ESTERNO MAX. 406,4 mm

MIN. THICKNESS - SPESSORE MIN. 1,8 mm
MAX. THICKNESS - SPESSORE MAX. 16 mm

MANUFACTURING STANDARD <i>Norma di fabbricazione</i>	PRODUCT DESIGNATION <i>Designazione prodotto</i>	GRADE <i>Qualità</i>
API 5CT	Steel pipes for use as casing or tubing for wells - OCTG casing and tubing <i>Tubi per impianti di perforazione ed estrazione del petrolio – tubi OCTG</i>	J55
API 5L	Welded steel pipes for use in pipelines transportation systems in petroleum and natural gas industries <i>Tubi saldati per trasporto di liquidi nei settori petrolifero e di gas naturale</i>	X52



OPTIONAL PROCESSING

Lavorazioni opzionali

Additional heat treatments - Trattamenti termici aggiuntivi

Drift expanding test - Prova di allargamento

Hydraulic test - Prova idraulica

Electromagnetic Interference (EMI) Testing - Prova di interferenza elettromagnetica

TUBES FOR WELDING AND THREADING
TUBI ADATTI ALLA SALDATURA E ALLA FILETTATURA

EN 10255

Tubes for welding and threading are unalloyed carbon steel round tubes whose manufacturing standards are regulated by EN 10255.

These tubes are used for conveying gas and water in plumbing and heating systems, in sprinklers or in firefighting systems.

EN 10255 tubes are applied in civil and industrial systems.

I tubi atti alla saldatura e alla filettatura sono tubi tondi in acciaio al carbonio non legato i cui standard sono regolati dalla norma EN 10255.

Si tratta dei tubi impiegati per la veicolazione di gas e di acqua negli impianti idrotermosanitari, in sprinkler o negli antincendio.

I tubi EN 10255 sono applicati nell'impiantistica civile e industriale.



FIREFIGHTING SYSTEMS
SISTEMI ANTINCENDIO



PLUMBING AND HEATING
IMPIANTISTICA IDROTERMOSANITARIA



The use of a threaded tubes in the construction of the implants allows screwing, which facilitates installation. The threads can be of the "male" type, with the mouth on the outside, or the "female" type, with the mouth on the inside. The threaded end of the pipes is always of the male type, while that of the various fittings can be of the male or female type.

L'utilizzo di un tubo filettato nella realizzazione degli impianti consente l'avvitamento, che agevola la posa in opera. Le filettature possono essere di tipo "maschio", con imboccatura all'esterno, o "femmina", con imboccatura all'interno. L'estremità filettata dei tubi è sempre di tipo maschio, mentre quella dei vari raccordi può essere di tipo maschio o femmina.

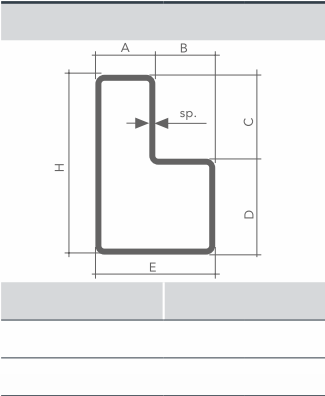


DIMENSIONAL RANGE - GAMMA DIMENSIONALE

Table with 2 columns: Specification (MIN. OUTSIDE DIAMETER, MAX. OUTSIDE DIAMETER, MIN. THICKNESS, MAX. THICKNESS) and Value (21,3 mm, 168,3 mm, 2,6 mm, 5,4 mm).

Table with 4 columns: MANUFACTURING STANDARD (EN 10255), PRODUCT DESIGNATION (Tubes suitable for welding and threading), TREATMENT (Heat treatments upon request), and GRADE (S195T).

Table titled ROUND TUBES (Tubi tondi) EN 10255. It includes a diagram of a round tube and a table of wall thicknesses (2,6, 3,2, 3,6, 4,0, 4,5, 5, 5,4 mm) for various outside diameters (21,3 to 168,3 mm).



SPECIAL SHAPES ARE ENGINEERED
ACCORDING TO CUSTOMER
SPECIFICATIONS
*ULTERIORI SAGOME SPECIALI
SONO STUDIATE E FORNITE
IN ACCORDO CON IL CLIENTE*



SPECIAL TUBE SECTIONS												
Tubi sagome speciali												
drawing	dimensions mm						thickness	weight	static data			
	H	A	B	C	D	E	mm	kg/m	W x (cm³)	I x (cm⁴)	Ø	
1793	30	18	12	12	18	30	1,50	1,35	1,32	1,80	38	
610	42	12	23	12	30	35	1,50	1,76	2,25	4,24	50	
1827	42	20	15	25	17	35	1,50	1,76	2,45	4,52	50	
2085	50	18	22	30	20	40	1,50	2,05	3,31	7,03	57	
1951	50	20	20	25	25	40	1,50	2,05	3,36	7,37	57	
1262	60	20	20	25	35	40	1,50	2,19	4,27	11,66	63	
1262	60	20	20	25	35	40	2,00	3,01	5,55	15,13	63	
1369	60	18	22	30	30	40	1,50	2,19	4,23	11,21	63	
1369	60	18	22	30	30	40	2,00	3,01	5,49	14,55	63	
1559	60	32	18	31	29	50	2,00	3,35	6,84	18,79	70	
1826	69	17	33	14	55	50	1,50	2,76	5,92	20,59	76	
1118	70	20	20	25	45	40	2,00	3,35	6,98	22,66	70	
660•B	70	20	20	30	40	40	2,00	3,35	6,97	22,33	70	
1432	80	18	22	30	50	40	2,00	3,46	8,41	31,11	76	
1560	80	32	18	31	49	50	2,00	3,99	10,21	38,43	83	
1306	90	20	20	40	50	40	2,00	3,99	10,21	42,60	83	
1320	100	18	22	30	70	40	2,00	4,08	11,97	56,69	89	
1093	100	20	20	25	75	40	2,00	4,08	12,19	58,40	89	
1304	110	20	20	40	70	40	2,00	4,59	13,98	72,85	95	
1561	110	32	18	31	79	50	2,00	4,93	16,39	86,87	102	
1370	120	18	22	30	90	40	2,00	4,71	16,13	92,90	102	
1305	130	20	20	40	90	40	2,00	5,29	18,36	114,53	108	
1877	70	20	20	20	50	40	2,00	3,35	6,99	22,99	70	
1917	80	20	20	25	55	40	2,00	3,46	8,86	33,22	76	

T. 1667 • 40%

Thickness (mm) kg/m
2,5 3,39

T. 1839 • 35%

Thickness (mm) kg/m
3 5,58

T. 1759 • 35%

Thickness (mm) kg/m
2 3,7

T. 1657 • 40%

Thickness (mm) kg/m
2,35 2,46

T. 1595 • 40%

Thickness (mm) kg/m
2,5 4,04

T. 1938 • 30%

Thickness (mm) kg/m
3,5 7,06

T. 1759 • 35%

2	3,7
2,35	4,33
2,5	4,61
2,7	5,05
3	5,51

T. 1657 • 40%

2,35	2,46
2,5	3,69
2,75	4,03

T. 1946 • 45%

Thickness (mm) kg/m
2,5 3,69

T. 1956 • 40%

Thickness (mm) kg/m
2,5 3,79

T. 1768 • 35%

Thickness (mm) kg/m
2 3,01

T. 1823 • 40%

Thickness (mm) kg/m
2 2,37

MT5 Handrail (T. 1312) • 60%

Thickness (mm) kg/m
1,5 1,65

MT9 Handrail (T. 1313) • 60%

Thickness (mm) kg/m
1,5 1,60

T. 1616 • 45%

Thickness (mm) kg/m
1,5 2,276

TR2 (T. 1974) • 80%

Thickness (mm) kg/m
1,8 1,03

T. 735 • 55%

Thickness (mm) kg/m
1,5 1,61

T. 1254 • 60%

Thickness (mm) kg/m
1,2 1,58

T. 1303 • 70%

Thickness (mm) kg/m
2 1,78

T. 1426 • 45%

Thickness (mm) kg/m
1,8 2,8

T. 1025 • 45%

Thickness (mm) kg/m
2 3,65

T. 1071 • 35%

Thickness (mm) kg/m
2,2 4,3

T. 700 • 50%

Thickness (mm) kg/m
2 1,78

T. 792 • 50%

Thickness (mm) kg/m
3 2,37

T. 1201 • 60%

Thickness (mm) kg/m
2 2,27

T. 942 • 30%

Thickness (mm) kg/m
3 6,36

T. 1121 • 35%

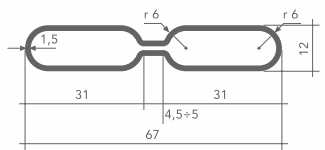
Thickness (mm) kg/m
2 3,65

T. 1078 • 35%

Thickness (mm) kg/m
2 2,76

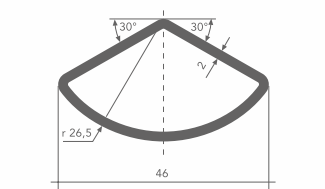
• Enlargement or reduction percentage of the drawings
Percentuale di ingrandimento o di riduzione dei disegni

T.537 • 50%



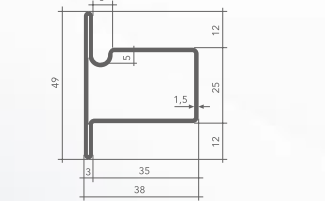
Thickness (mm)	kg/m
1,5	1,79

T. 1310 • 60%



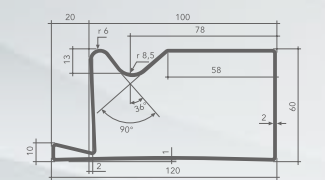
Thickness (mm)	kg/m
2	1,63

T. 1164 • 40%



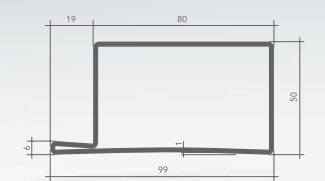
Thickness (mm)	kg/m
1,5	2,16

T. 1746 • 25%



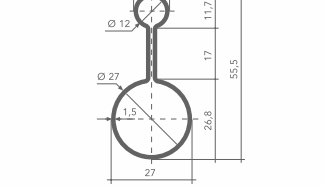
Thickness (mm)	kg/m
2	5,87

T. 1074 • 30%



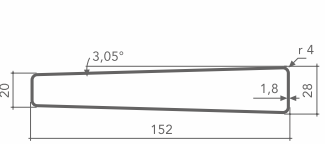
Thickness (mm)	kg/m
1	5,11

T. 701 • 40%



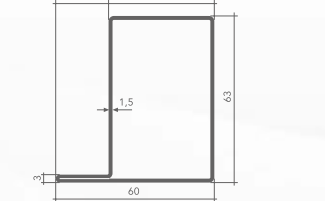
Thickness (mm)	kg/m
1,5	1,72

T. 1697 • 23%



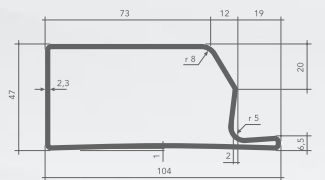
Thickness (mm)	kg/m
1,8	5

T. 776 • 35%



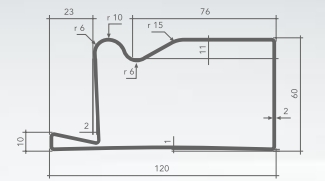
Thickness (mm)	kg/m
1,5	2,75

T. 1755 • 30%



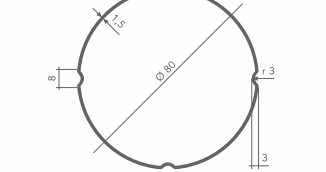
Thickness (mm)	kg/m
2,3	5,2

T. 1376 • 25%



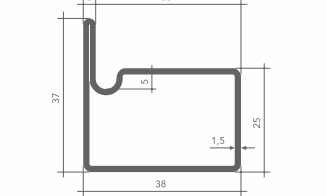
Thickness (mm)	kg/m
2	5,87

T. 1801 • 30%



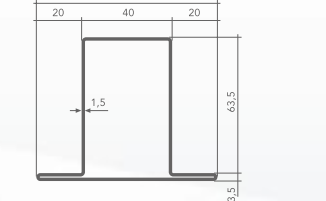
Thickness (mm)	kg/m
1,5	2,9

T. 574 • 55%



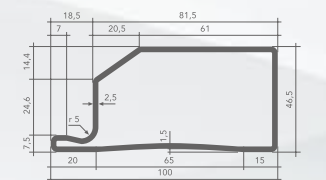
Thickness (mm)	kg/m
1,5	1,87

T. 774 • 30%



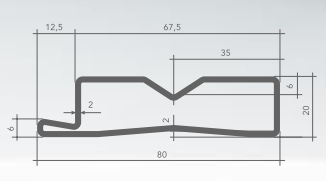
Thickness (mm)	kg/m
1,5	3,23

T. 1787 • 30%



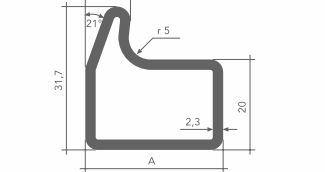
Thickness (mm)	kg/m
2,5	5,7

T. 1088 • 40%



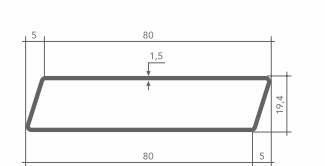
Thickness (mm)	kg/m
2	3,1

T. 1191 - T. 994 • 60%



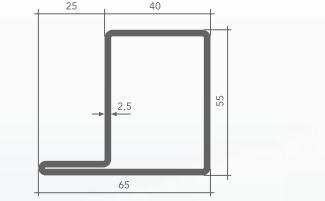
A	kg/m
25	1,87
30,5	2,14

T. 1113 • 40%



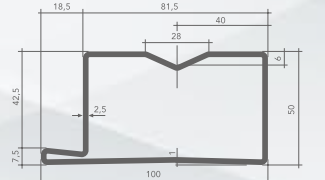
Thickness (mm)	kg/m
1,5	2,27

T. 770 • 35%



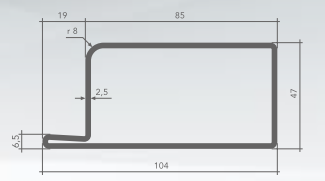
Thickness (mm)	kg/m
2,5	4,53

T. 902 • 30%



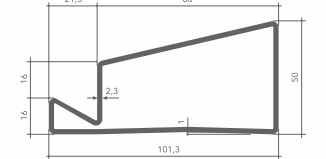
Thickness (mm)	kg/m
2,5	5,7

T. 845 • 30%



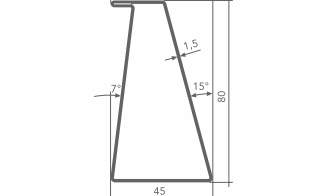
Thickness (mm)	kg/m
2,5	5,7

T. 1092 • 30%



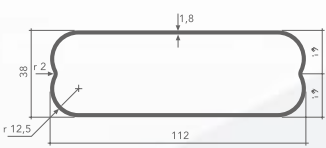
Thickness (mm)	kg/m
2,3	5,35

T. 1081 • 30%



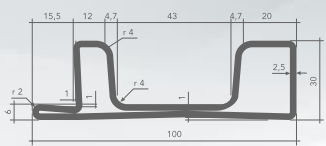
Thickness (mm)	kg/m
1,5	2,75

T. 1533 • 30%



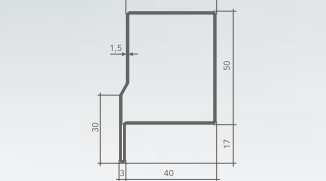
Thickness (mm)	kg/m
1,8	3,87

T. 1437 • 35%



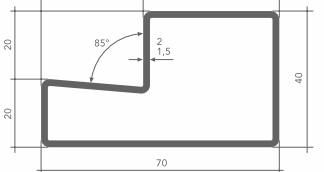
Thickness (mm)	kg/m
2,5	5,70

T. 1393 • 30%



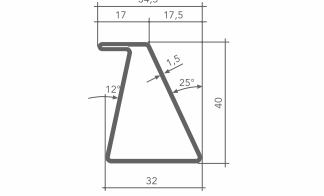
Thickness (mm)	kg/m
1,5	2,53

T. 660 BFTM - 5M • 45%



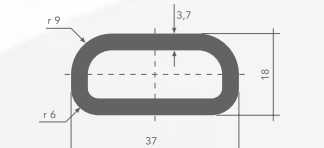
Thickness (mm)	kg/m
1,5	2,53
2	3,35

T. 724 • 40%



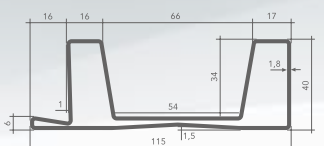
Thickness (mm)	kg/m
1,5	1,61

T. 1855 • 60%



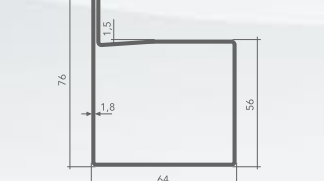
Thickness (mm)	kg/m
3,7	1,382

T. 1316 • 30%



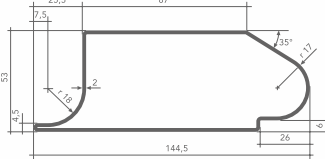
Thickness (mm)	kg/m
1,8	4,14

T. 1398 • 30%



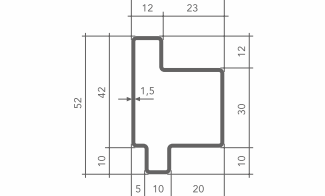
Thickness (mm)	kg/m
1,8	3,78

T. 1110 • 25%



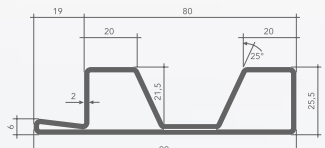
Thickness (mm)	kg/m
2	5,52

T. 1356 • 35%



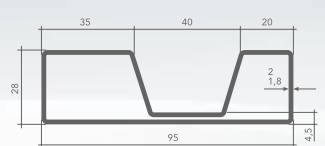
Thickness (mm)	kg/m
1,5	1,99

T. 1268 • 35%



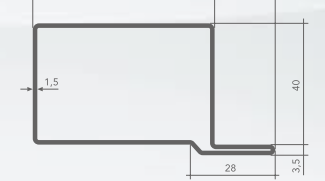
Thickness (mm)	kg/m
2	4,29

T. 1719 • 35%



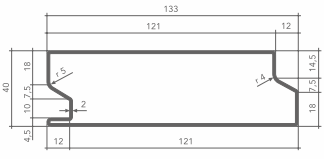
Thickness (mm)	kg/m
2	4,29

T. 1709 • 40%



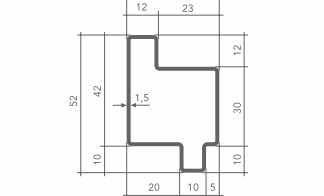
Thickness (mm)	kg/m
1,5	2,9

T. 1779 • 25%



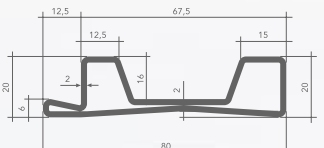
Thickness (mm)	kg/m
1,5	4,2

T. 1355 • 35%



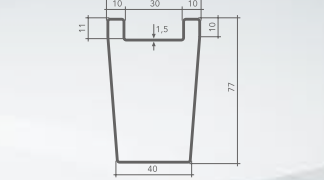
Thickness (mm)	kg/m
1,5	1,99

T. 1292 • 40%



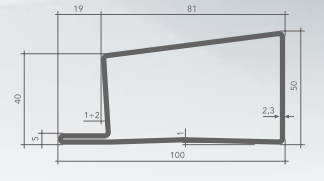
Thickness (mm)	kg/m
2	3,35

T. 1525 • 25%



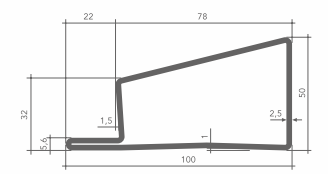
Thickness (mm)	kg/m
1,5	3,16

T. 1433 • 30%



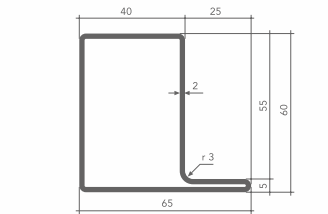
Thickness (mm)	kg/m
2,3	5,57

T. 1092/B • 30%



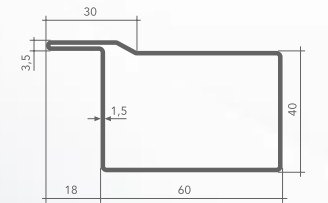
Thickness (mm)	kg/m
2,5	5,39

T. 1581 • 35%



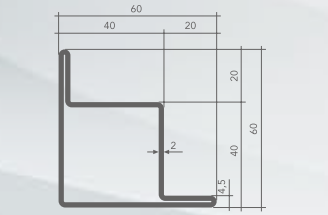
Thickness (mm)	kg/m
2	3,849

T. 1636 • 40%



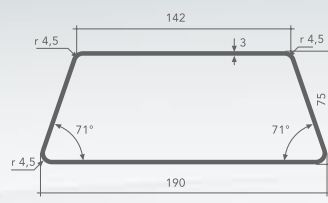
Thickness (mm)	kg/m
1,5	2,757

T. 420 • 35%



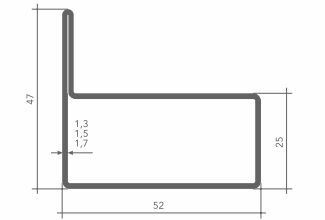
Thickness (mm)	kg/m
2	3,65

T. 1845 • 20%



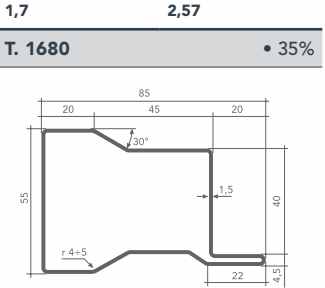
Thickness (mm)	kg/m
3	11,550

T. 1448 • 50%



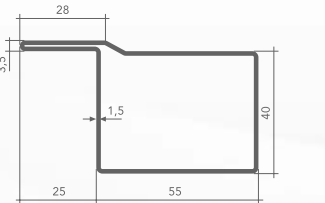
Thickness (mm)	kg/m
1,3	1,98

T. 1680 • 35%



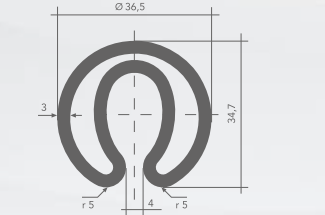
Thickness (mm)	kg/m
1,5	3,784

T. 1687 • 40%



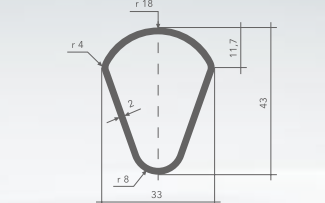
Thickness (mm)	kg/m
1,5	2,757

T. 1912 • 55%



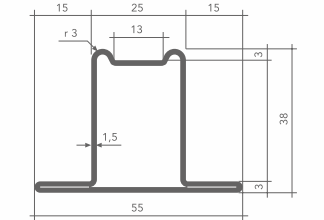
Thickness (mm)	kg/m
3	3,812

T.1939 • 45%



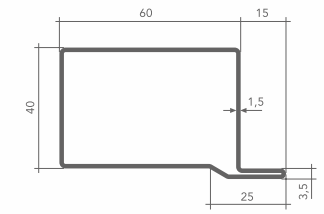
Thickness (mm)	kg/m
2	1,78

T. 1471 • 50%



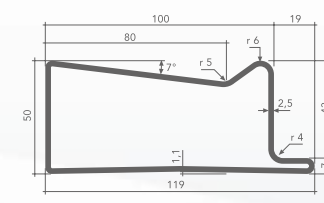
Thickness (mm)	kg/m
1,5	2,13

T. 1663 • 40%



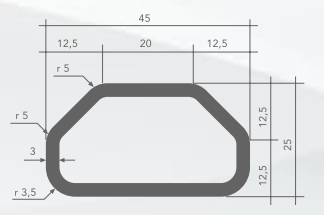
Thickness (mm)	kg/m
1,5	2,757

T. 1693 • 30%



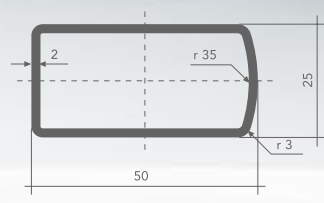
Thickness (mm)	kg/m
2,5	6,508

T. 1891 • 60%



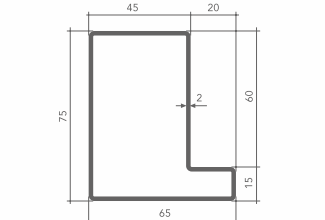
Thickness (mm)	kg/m
3	1,875

T. 2003 • 60%



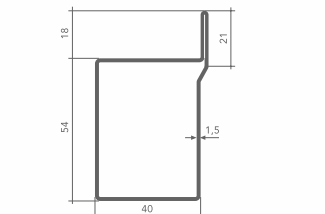
Thickness (mm)	kg/m
2	2,17

T. 1514 • 30%



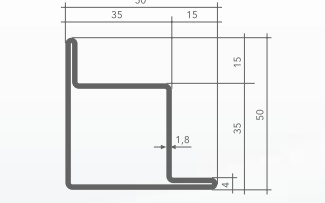
Thickness (mm)	kg/m
2	4,29

T. 1582 • 35%



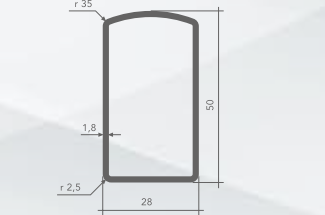
Thickness (mm)	kg/m
1,5	2,64

T. 742 • 45%



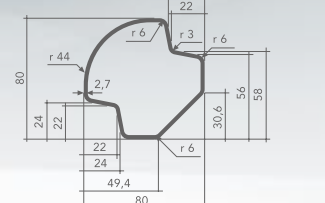
Thickness (mm)	kg/m
1,8	2,270

T. 1876 • 45%



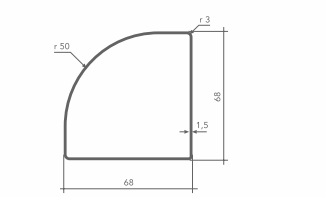
Thickness (mm)	kg/m
1,8	2,270

T. 1931 • 20%



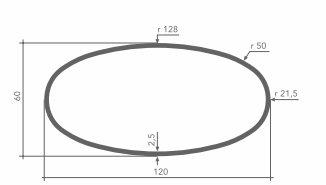
Thickness (mm)	kg/m
2,7	5,63

T. 1934 • 25%



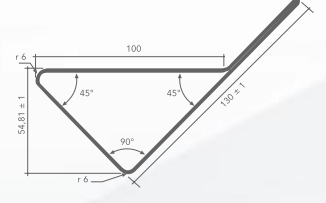
Thickness (mm)	kg/m
1,5	2,91

T. 1980 • 25%



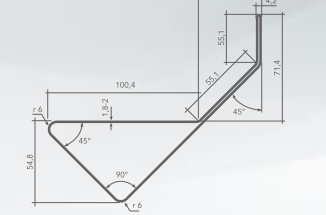
Thickness (mm)	kg/m
2,5	5,7

T. 2091 • 25%



Thickness (mm)	kg/m
2	5,54

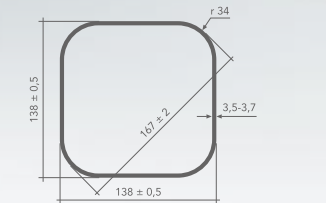
T. 2110 • 20%



Thickness (mm)	kg/m
1,8	6,12

2 6,79

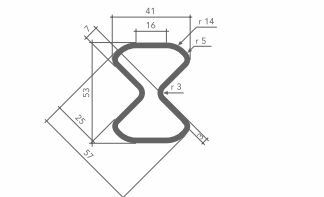
T. 2151 • 20%



Thickness (mm)	kg/m
3,5	13,42

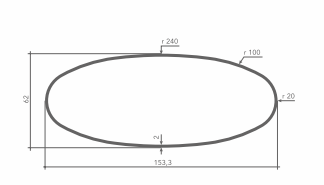
3,7 14,18

T. 2051 • 25%



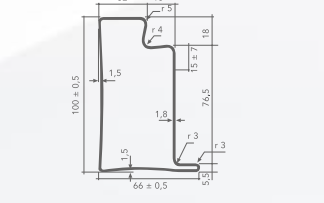
Thickness (mm)	kg/m
3	4,24

T. 2052 • 20%



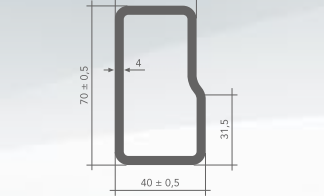
Thickness (mm)	kg/m
2	5,54

T.2096 • 20%



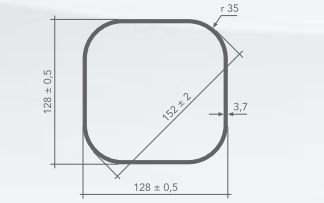
Thickness (mm)	kg/m
1,8	4,71

T. 2111 • 30%



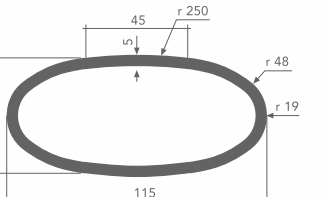
Thickness (mm)	kg/m
4	6,51

T. 2152 • 15%



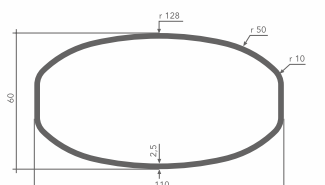
Thickness (mm)	kg/m
3,7	13,17

T. 2036 • 30%



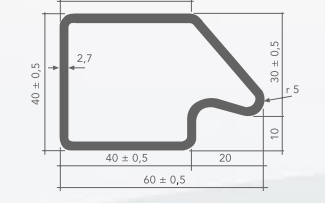
Thickness (mm)	kg/m
5	10,36

T. 2056 • 30%



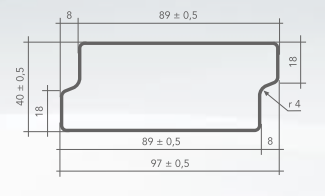
Thickness (mm)	kg/m
2,5	5,49

T. 2100 • 45%



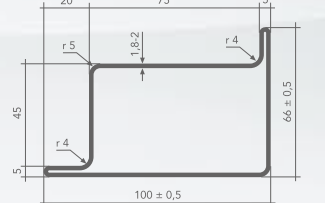
Thickness (mm)	kg/m
2,7	3,95

T. 2120 • 30%



Thickness (mm)	kg/m
1,5	3,16

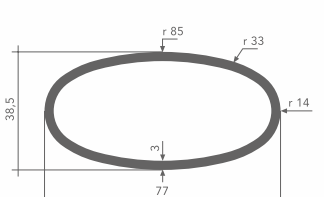
T. 2166 • 100%



Thickness (mm)	kg/m
1,8	4,71

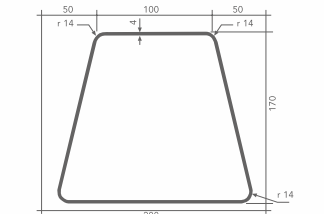
2 5,23

T. 1999 • 40%



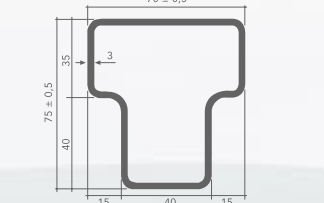
Thickness (mm)	kg/m
3	4,24

T. 2082 • 15%



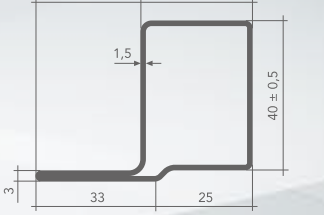
Thickness (mm)	kg/m
4	18,72

T. 2101 • 30%



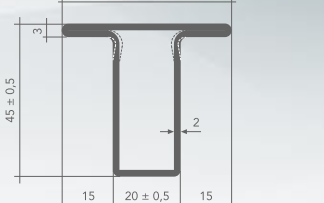
Thickness (mm)	kg/m
3	6,81

T. 2121 • 50%



Thickness (mm)	kg/m
1,5	2,28

T. 2169 • 45%



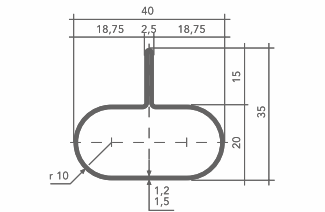
Thickness (mm)	kg/m
2	2,86

PRECISION TUBES
TUBI DI PRECISIONE

EN 10305-3 S1, S2, S4
Special shapes *Sagome speciali*

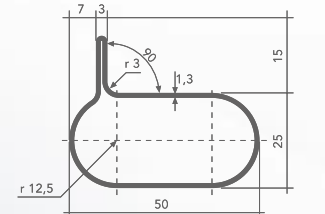
• Enlargement or reduction percentage of the drawings
Percentuale di ingrandimento o di riduzione dei disegni

T. 787 • 50%



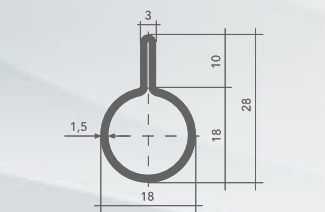
Thickness (mm)	kg/m
1,2	1,2
1,5	1,49

T. 1852 • 50%



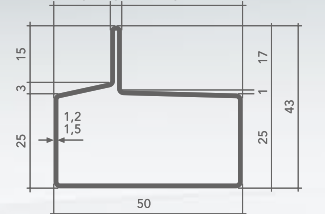
Thickness (mm)	kg/m
1,3	1,47

BTL (T. 1346) • 70%



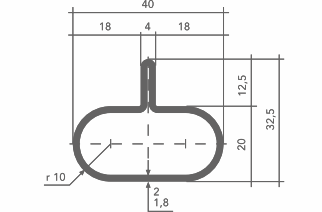
Thickness (mm)	kg/m
1,5	0,81

3M (T. 723) • 50%



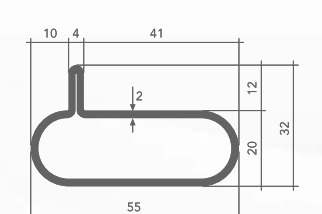
Thickness (mm)	kg/m
1,2	1,67
1,5	2,05

T.536 • 50%



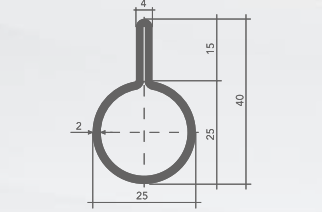
Thickness (mm)	kg/m
1,8	1,70
2	1,87

T. 1798 • 50%



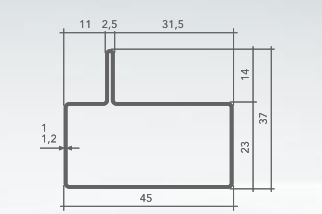
Thickness (mm)	kg/m
2	2,37

T. 1192 • 55%



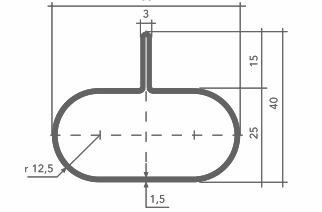
Thickness (mm)	kg/m
2	1,63

4M (T. 751) • 50%



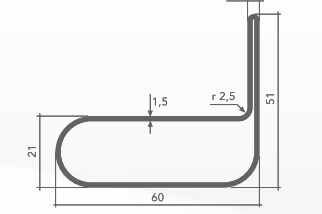
Thickness (mm)	kg/m
1	1,2
1,2	1,44

T. 1157 • 50%



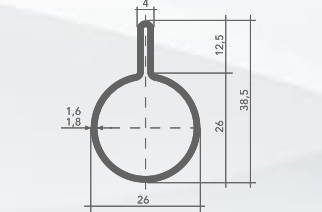
Thickness (mm)	kg/m
1,5	1,79

T. 1396 • 45%



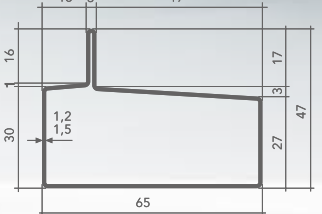
Thickness (mm)	kg/m
1,5	2,35

T. 1094 • 55%



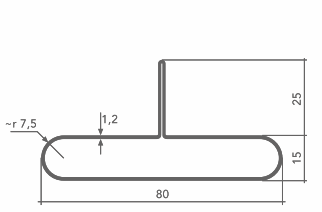
Thickness (mm)	kg/m
1,6	1,43
1,8	1,6

6M (T. 990) • 45%



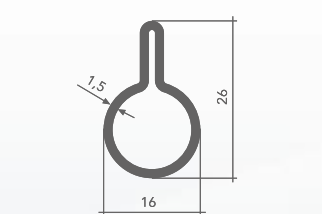
Thickness (mm)	kg/m
1,2	2,05
1,5	2,53

T. 1072 • 40%



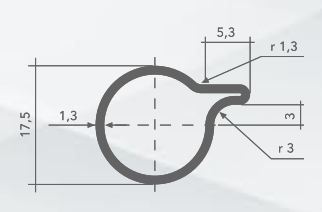
Thickness (mm)	kg/m
1,2	2,04

T. 1639 • 80%



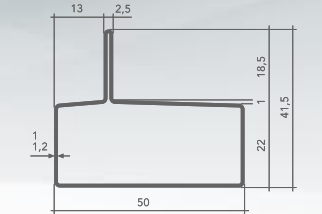
Thickness (mm)	kg/m
1,5	0,795

T. 1127 • 90%



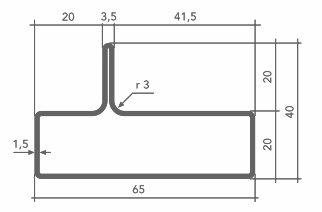
Thickness (mm)	kg/m
1,3	0,64

7M (T. 1004) • 50%



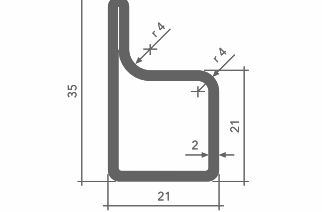
Thickness (mm)	kg/m
1	1,39
1,2	1,67

T. 1380 • 45%



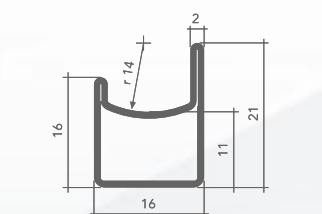
Thickness (mm)	kg/m
1,5	2,35

T. 1641 • 70%



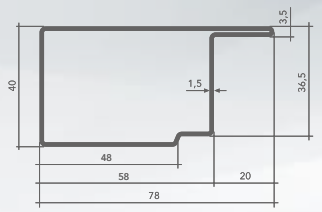
Thickness (mm)	kg/m
2	1,63

T. 1642 • 90%



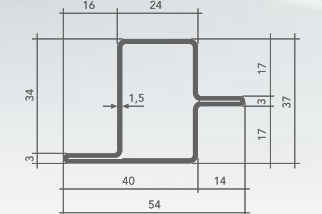
Thickness (mm)	kg/m
1	0,592

T. 1920 • 40%



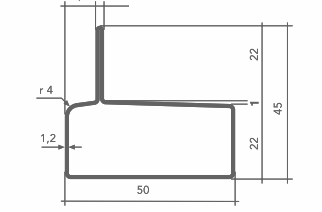
Thickness (mm)	kg/m
1,5	2,758

T. 1659 • 45%



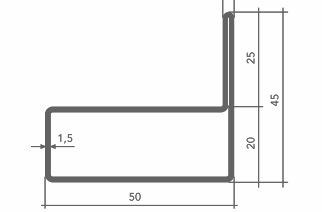
Thickness (mm)	kg/m
1,5	1,98

T. 1990 • 45%



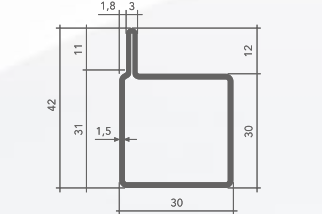
Thickness (mm)	kg/m
1,2	1,74

T. 1163 • 50%



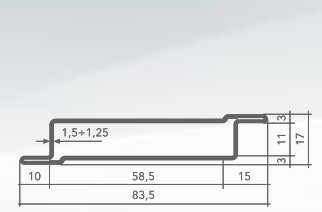
Thickness (mm)	kg/m
1,5	2,16

T. 1302 • 50%



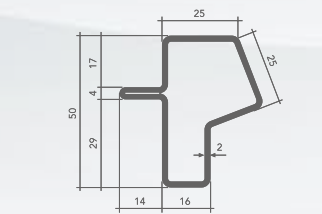
Thickness (mm)	kg/m
1,5	1,61

T. 1371 • 40%



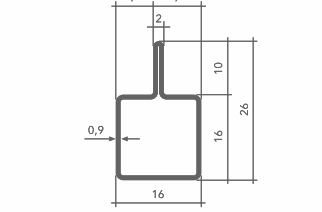
Thickness (mm)	kg/m
1,25	1,85
1,5	2,21

T. 1660 • 40%



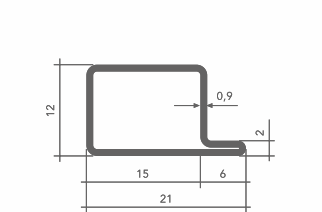
Thickness (mm)	kg/m
2	2,61

T. 1914 • 70%



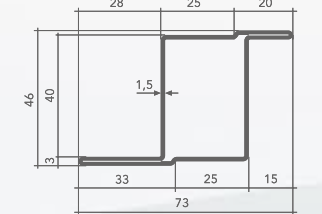
Thickness (mm)	kg/m
0,9	0,557

T.1147 • 100%



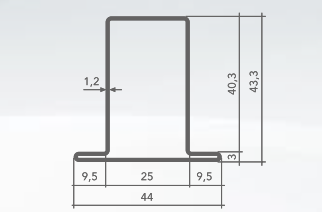
Thickness (mm)	kg/m
0,9	0,44

T. 1846 • 40%



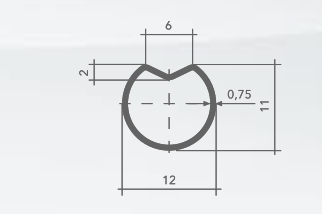
Thickness (mm)	kg/m
1,5	2,75

T. 1575 • 45%



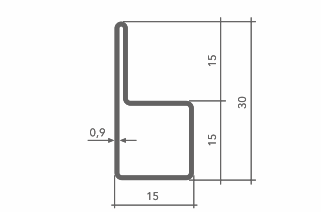
Thickness (mm)	kg/m
1,2	1,593

T. 1742 • 100%



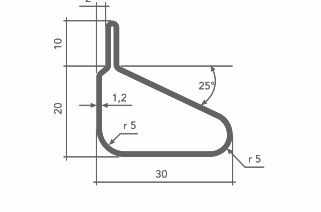
Thickness (mm)	kg/m
0,75	0,21

T. 1508 • 70%



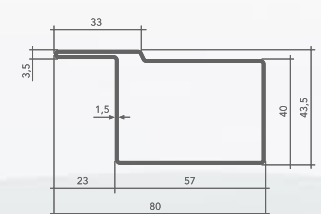
Thickness (mm)	kg/m
0,9	0,624

T. 1214 • 60%



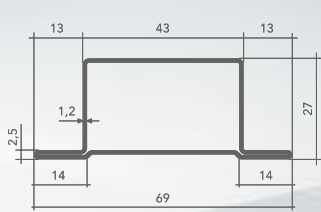
Thickness (mm)	kg/m
1,2	0,94

T. 1866 • 35%



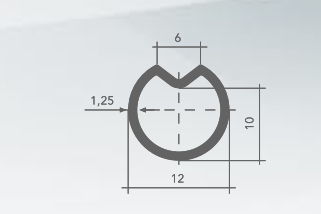
Thickness (mm)	kg/m
1,5	2,75

T. 746 • 50%



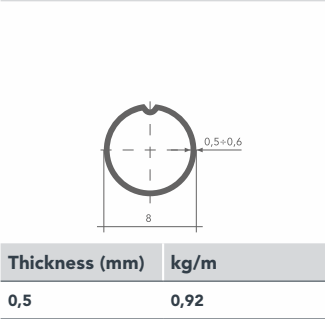
Thickness (mm)	kg/m
1,2	1,74

T. 1529 • 100%

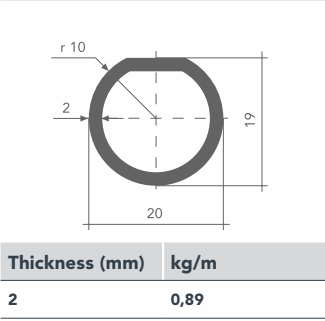


Thickness (mm)	kg/m
1,25	0,393

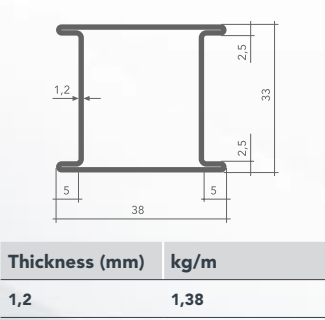
T. 1138 • 150%



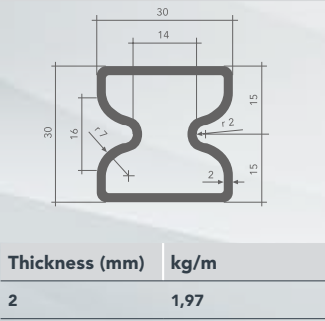
T. 1294 • 90%



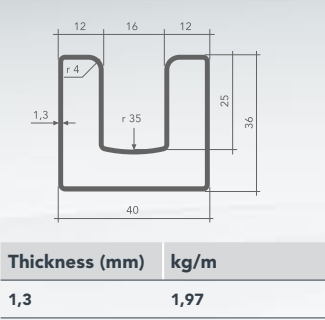
T. 1288 • 60%



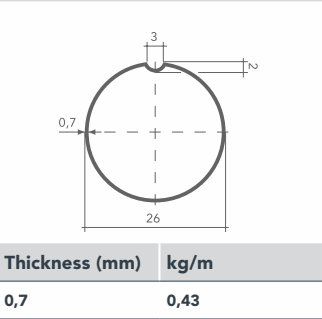
T. 1649 • 60%



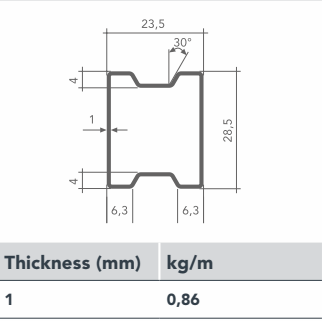
T. 1384 • 50%



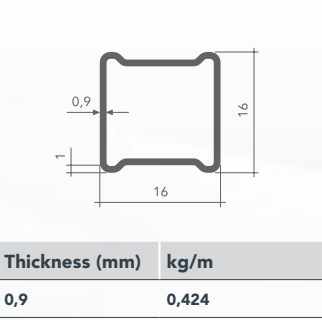
T. 1239 • 70%



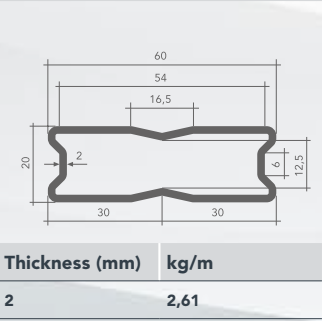
T. 1276 • 55%



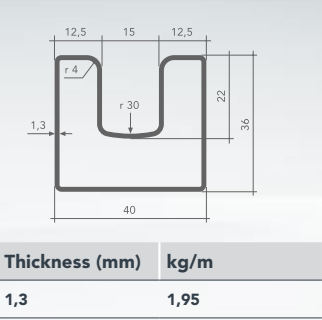
T. 1907 • 100%



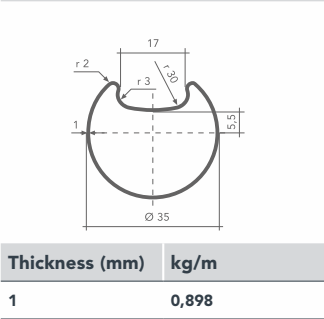
T. 1647 • 50%



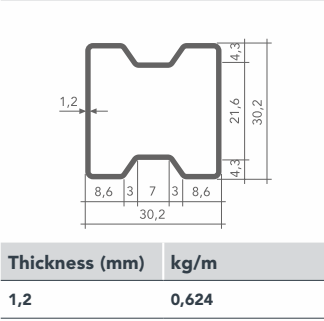
T. 1718 • 50%



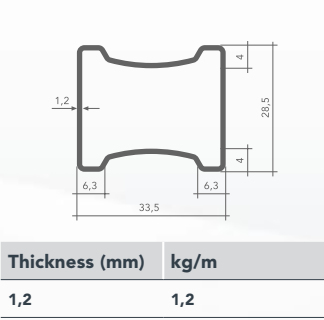
T. 1995 • 50%



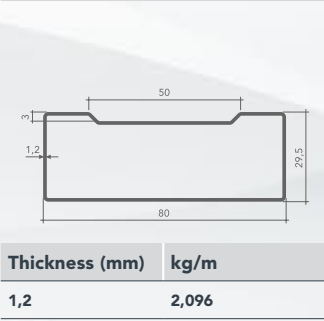
T. 1443 • 60%



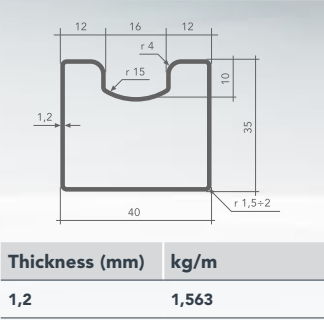
T. 1277 • 60%



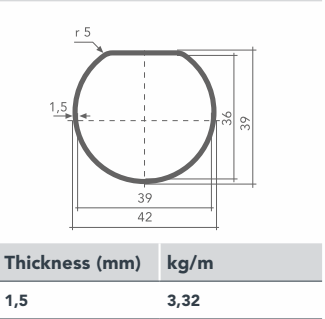
T. 1622 • 40%



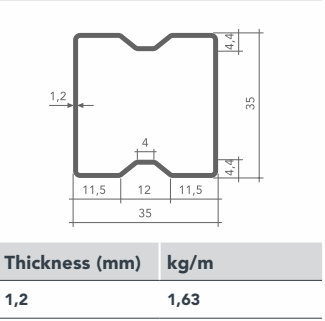
T. 1544 • 50%



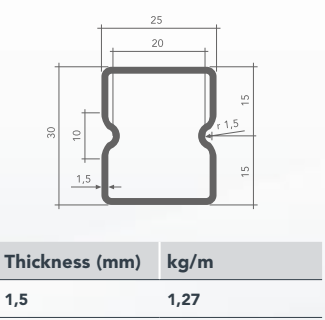
T. 2015 • 45%



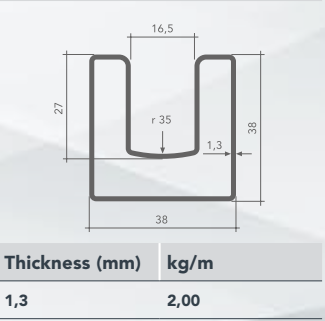
T. 1199 • 55%



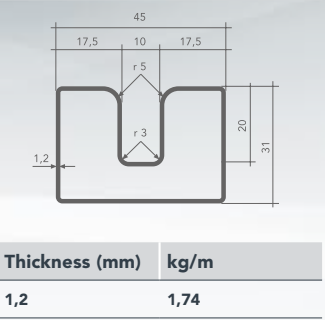
T. 1648 • 60%



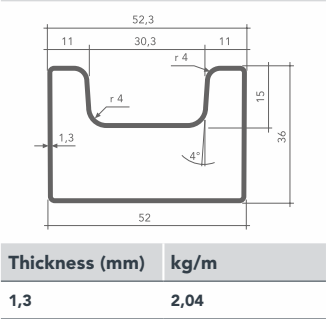
T. 1286 • 50%



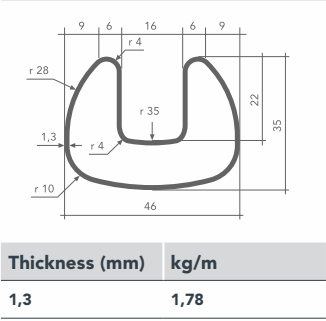
T. 2016 • 50%



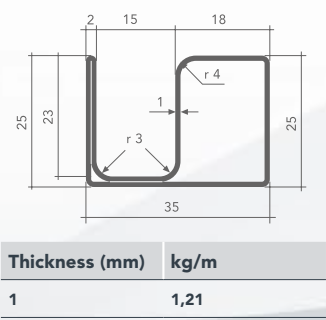
T. 1510 • 50%



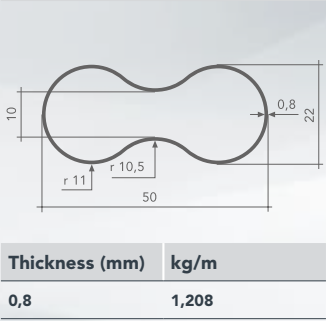
T. 1770 • 50%



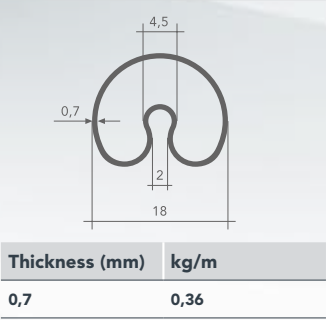
T. 1840 • 70%



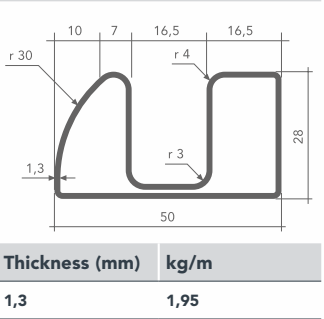
T. 975 • 60%



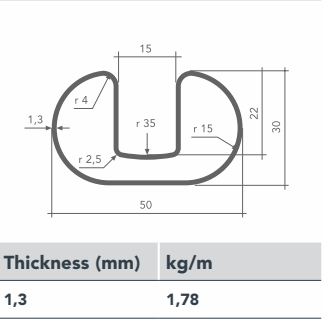
T. 1223 • 100%



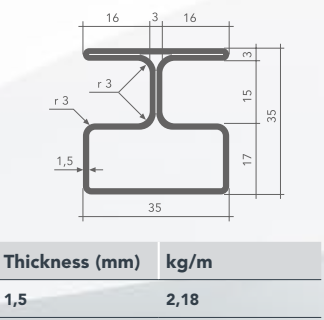
T. 1713 • 60%



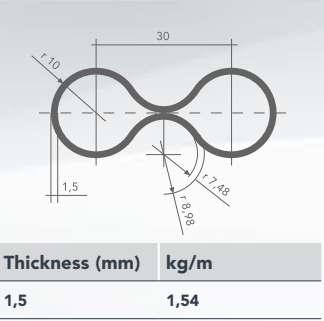
T. 1428 • 50%



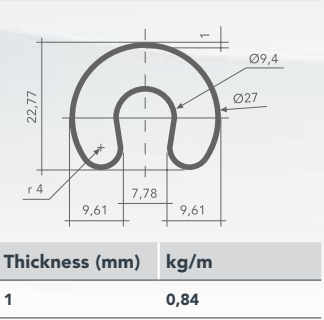
T. 1853 • 55%



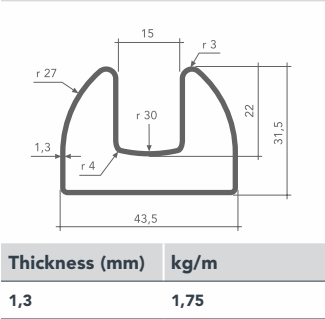
T. 1716 • 60%



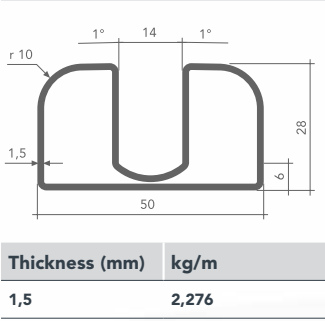
T. 1937 • 75%



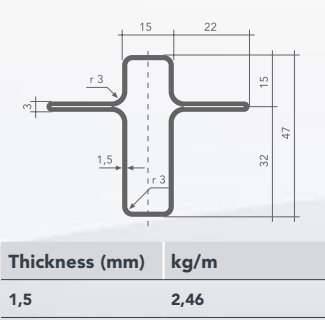
T. 1447 • 55%



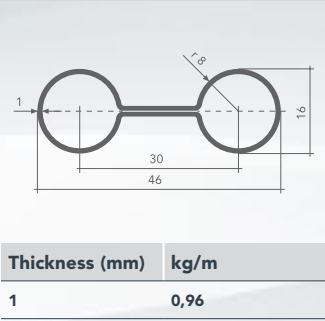
T. 1538 • 60%



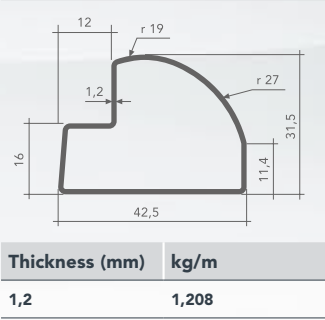
T. 1843 • 45%



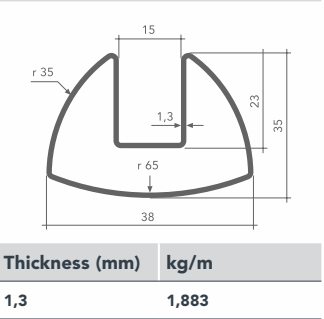
T. 1652 • 70%



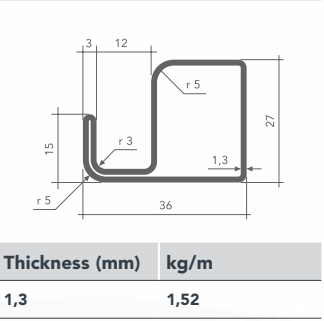
T. 1603 • 60%



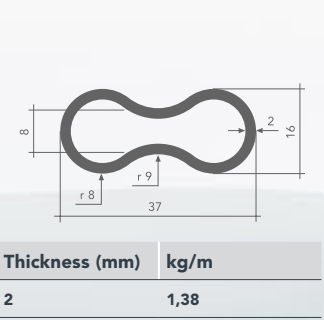
T. 1601 • 55%



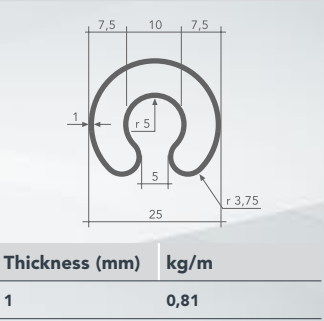
T. 1780 • 60%



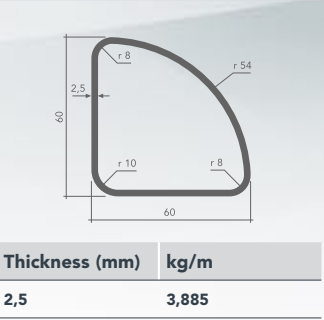
T. 1715 • 70%



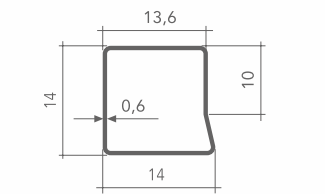
T. 1194 • 70%



T. 1552 • 35%

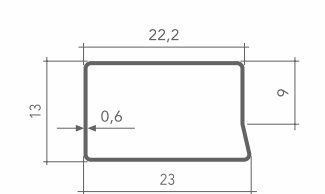


T. 2094 • 100%



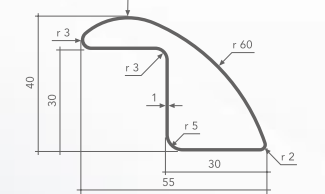
Thickness (mm)	kg/m
0,6	0,25

T. 1890 • 00%



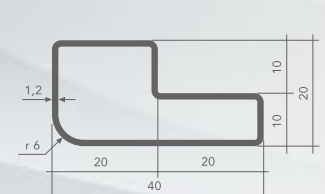
Thickness (mm)	kg/m
0,6	0,31

T. 1655 • 45%



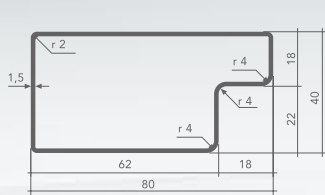
Thickness (mm)	kg/m
1	1,209

T. 1567 • 70%



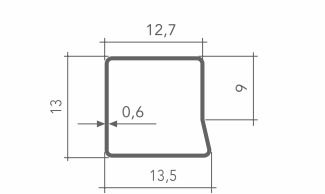
Thickness (mm)	kg/m
1,2	1,089

T. 1973 • 40%



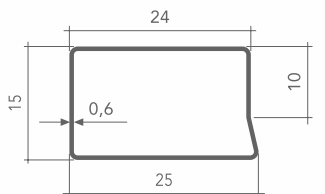
Thickness (mm)	kg/m
1,5	2,758

T. 1888 • 100%



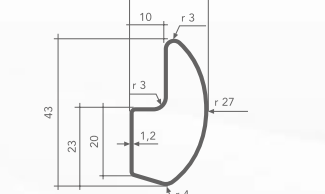
Thickness (mm)	kg/m
0,6	0,23

T. 1733 • 00%



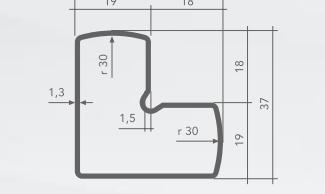
Thickness (mm)	kg/m
0,6	0,36

T. 1953 • 45%



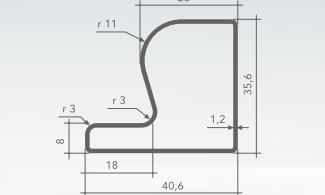
Thickness (mm)	kg/m
1,2	1,070

T. 1513 • 55%



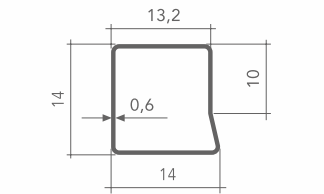
Thickness (mm)	kg/m
1,3	1,5

T. 1957 • 50%



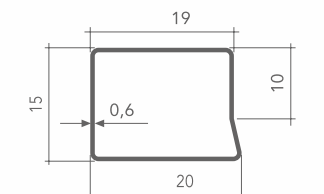
Thickness (mm)	kg/m
1,2	1,380

T. 1120 • 100%



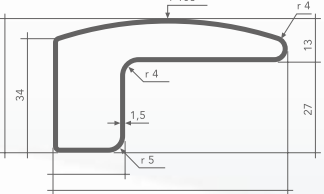
Thickness (mm)	kg/m
0,6	0,25

T. 1732 • 00%



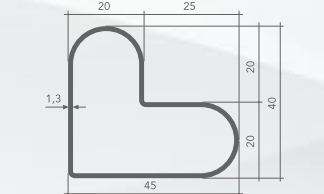
Thickness (mm)	kg/m
0,6	0,27

T. 1954 • 45%



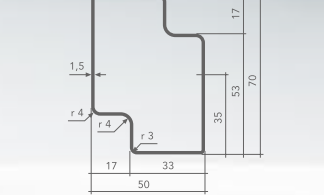
Thickness (mm)	kg/m
1,5	2,350

T. 1423 • 50%



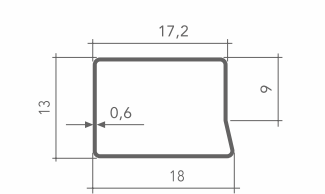
Thickness (mm)	kg/m
1,3	1,55

T. 1992 • 30%



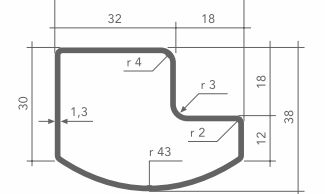
Thickness (mm)	kg/m
1,5	2,758

T. 1889 • 100%



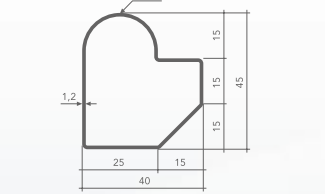
Thickness (mm)	kg/m
0,6	0,29

T. 1887 • 50%



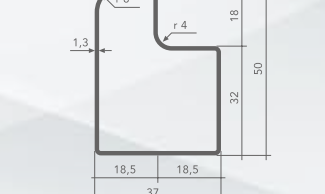
Thickness (mm)	kg/m
1,3	1,52

T. 1162 • 40%



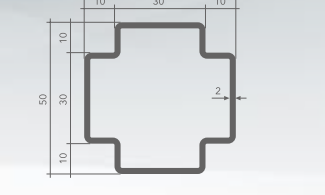
Thickness (mm)	kg/m
1,2	1,38

T. 1986 • 45%



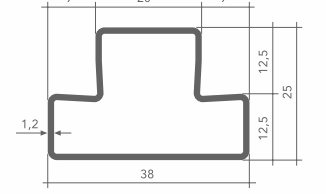
Thickness (mm)	kg/m
1,3	1,69

T. 971 • 40%



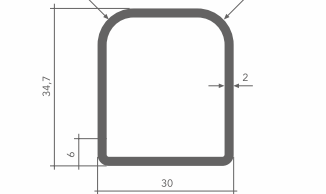
Thickness (mm)	kg/m
2	3,01

T. 1414/B • 70%



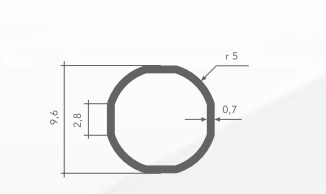
Thickness (mm)	kg/m
1,2	1,49

T. 1894 • 60%



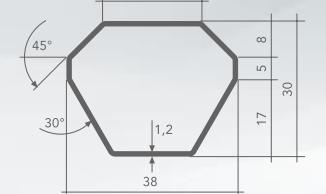
Thickness (mm)	kg/m
2	1,87

T. 1982 • 150%



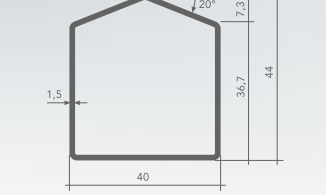
Thickness (mm)	kg/m
0,7	0,16

T. 1188 • 60%



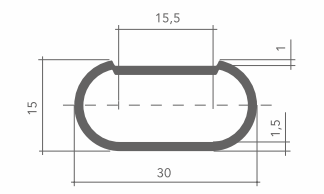
Thickness (mm)	kg/m
1,2	1,03

T. 1367 • 50%



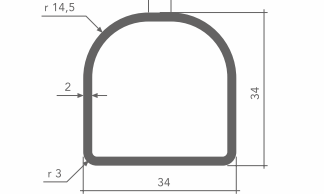
Thickness (mm)	kg/m
1,5	1,79

T. 1797 • 80%



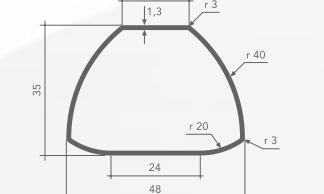
Thickness (mm)	kg/m
1	0,87

T. 1883 • 60%



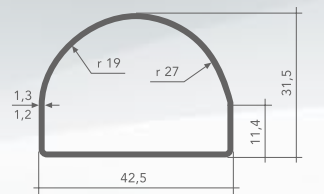
Thickness (mm)	kg/m
2	1,87

T. 1778 • 50%



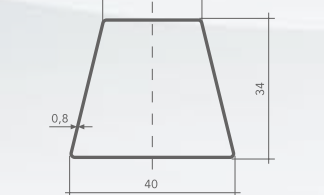
Thickness (mm)	kg/m
1,3	1,4

T. 1446 • 60%



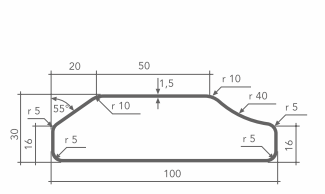
Thickness (mm)	kg/m
1,2	1,18

T. 1329/B • 55%



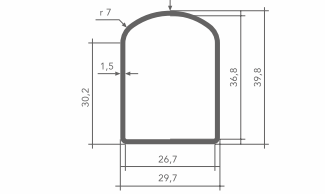
Thickness (mm)	kg/m
0,8	0,73

T. 2008 • 30%



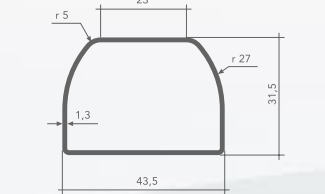
Thickness (mm)	kg/m
1,5	2,758

T. 1928 • 45%



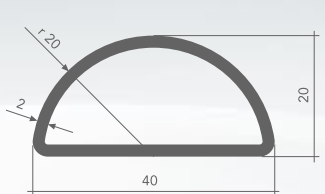
Thickness (mm)	kg/m
1,5	1,49

T. 1971 • 50%



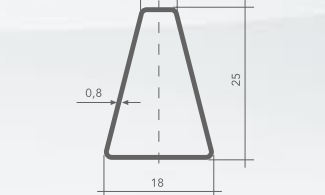
Thickness (mm)	kg/m
1,3	1,34

T. 1645 • 80%



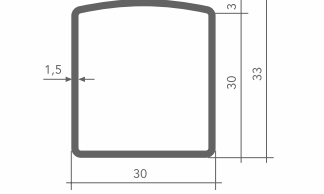
Thickness (mm)	kg/m
2	1,52

T. 1329 • 80%



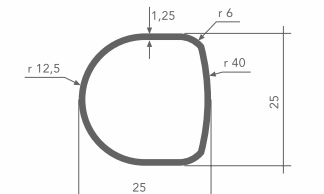
Thickness (mm)	kg/m
0,8	0,46

T. 863 • 70%



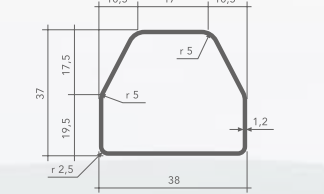
Thickness (mm)	kg/m
1,5	1,35

T. 1795 • 70%



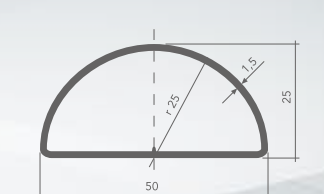
Thickness (mm)	kg/m
1,25	0,76

T. 1918 • 50%



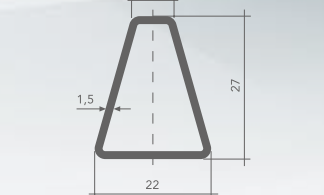
Thickness (mm)	kg/m
1,2	1,20

T. 1668 • 60%



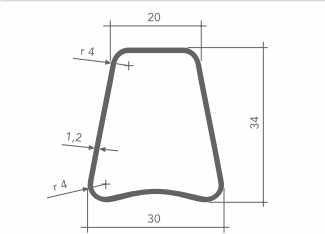
Thickness (mm)	kg/m
1,5	1,49

T. 1785 • 70%



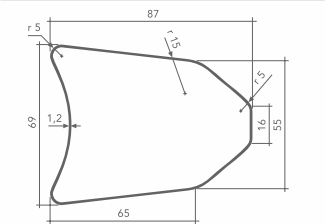
Thickness (mm)	kg/m
1,5	0,98

T. 1651 • 60%



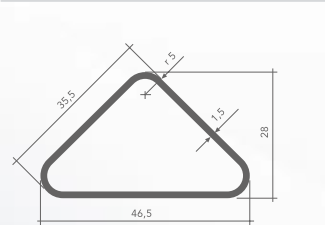
Thickness (mm)	kg/m
1,2	1,09

T. 1654 • 30%



Thickness (mm)	kg/m
1,2	2,60

T. 1644 • 60%



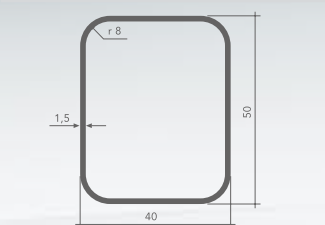
Thickness (mm)	kg/m
1,5	1,35

T. 862 • 60%



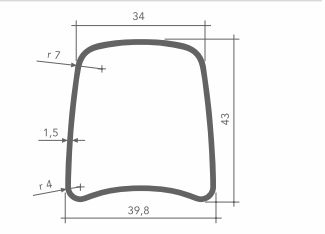
Thickness (mm)	kg/m
1,5	1,79

T. 1714 • 50%



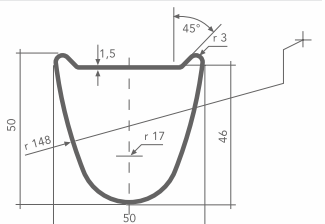
Thickness (mm)	kg/m
1,5	1,87

T. 1653 • 55%



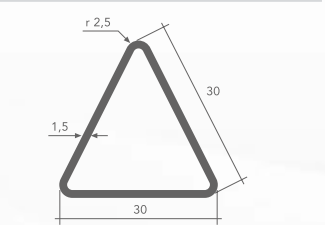
Thickness (mm)	kg/m
1,5	1,79

T. 1767 • 40%



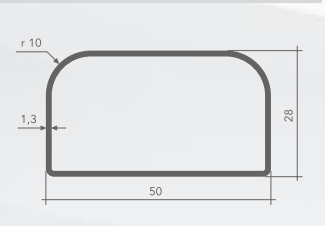
Thickness (mm)	kg/m
1,5	1,98

T. 1490 • 70%



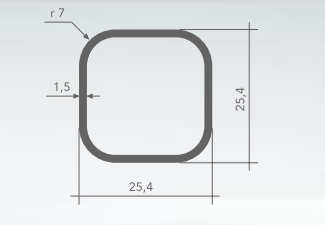
Thickness (mm)	kg/m
1,5	0,02

T. 1800 • 60%



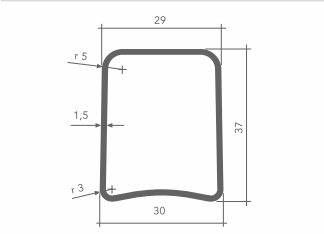
Thickness (mm)	kg/m
1,3	1,52

T. 2007 • 70%



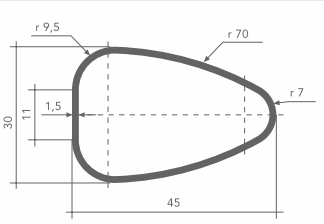
Thickness (mm)	kg/m
1,5	1,003

T. 1650 • 55%



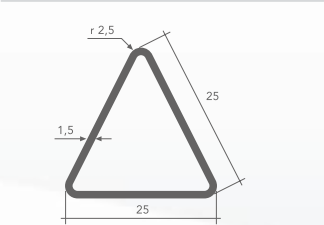
Thickness (mm)	kg/m
1,5	1,72

T. 2020 • 60%



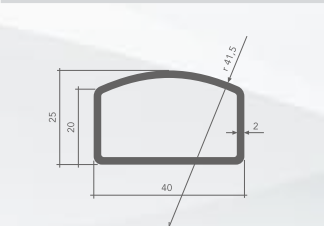
Thickness (mm)	kg/m
1,5	1,42

T. 1781 • 80%



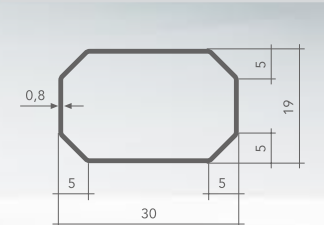
Thickness (mm)	kg/m
1,5	0,83

T. 1646 • 50%



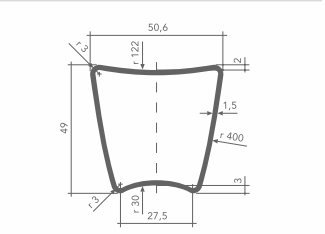
Thickness (mm)	kg/m
2	1,97

T. 1218 • 80%



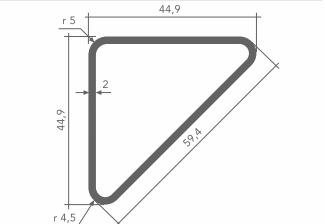
Thickness (mm)	kg/m
0,8	0,53

T. 1925 • 35%



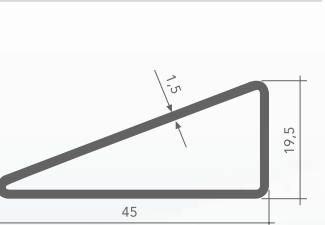
Thickness (mm)	kg/m
1,5	2,05

T. 1802 • 50%



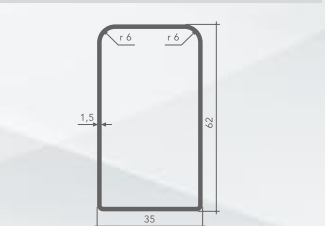
Thickness (mm)	kg/m
2	2,27

T. 1643 • 80%



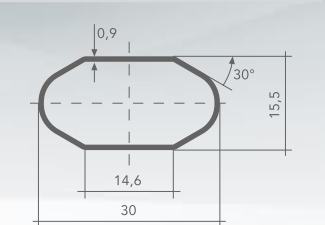
Thickness (mm)	kg/m
1,5	1,27

T. 1155 • 40%



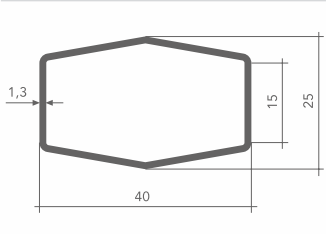
Thickness (mm)	kg/m
1,5	2,16

T. 1275 • 80%



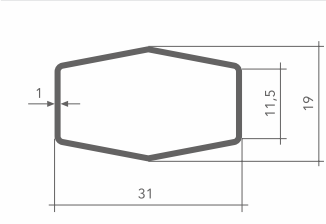
Thickness (mm)	kg/m
0,9	0,53

T. 1063 • 70%



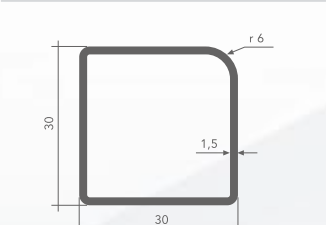
Thickness (mm)	kg/m
1,3	1,14

T. 1258 • 80%



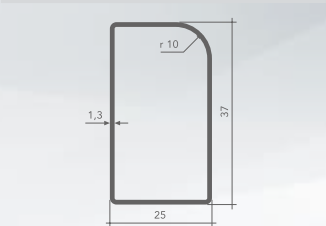
Thickness (mm)	kg/m
1	0,66

T. 891 • 70%



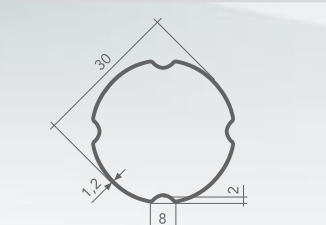
Thickness (mm)	kg/m
1,5	1,33

T. 1522 • 55%



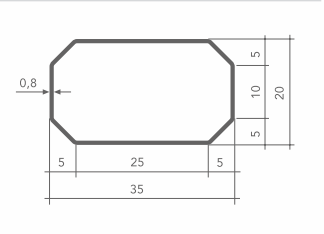
Thickness (mm)	kg/m
1,3	1,18

T. 1600 • 45%



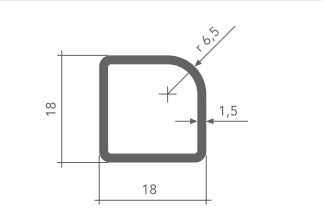
Thickness (mm)	kg/m
1,2	0,852

T. 1217 • 70%



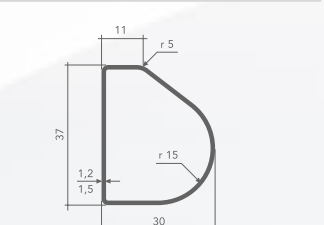
Thickness (mm)	kg/m
0,8	0,61

T. 1640 • 80%



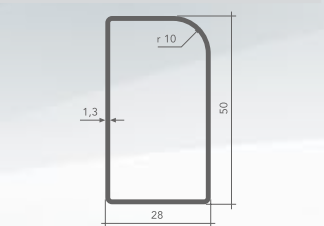
Thickness (mm)	kg/m
1,5	0,758

T. 1112 • 50%



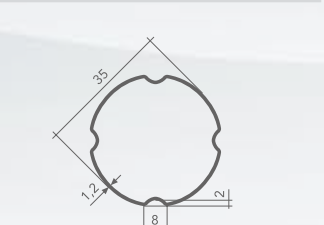
Thickness (mm)	kg/m
1,2	1,09

T. 1698 • 50%



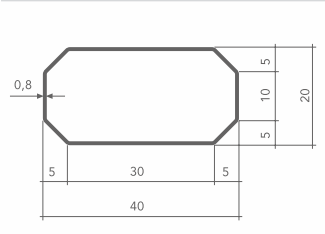
Thickness (mm)	kg/m
1,3	1,5

T. 1606 • 40%



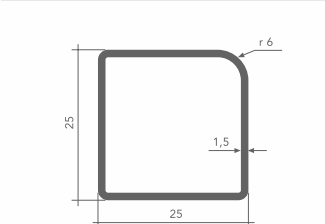
Thickness (mm)	kg/m
1,2	1,000

T. 1975 • 65%



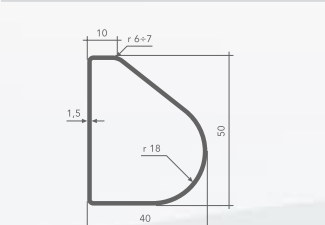
Thickness (mm)	kg/m
0,8	0,675

T. 1330 • 80%



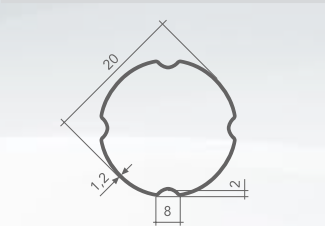
Thickness (mm)	kg/m
1,5	1,13

T. 1240 • 40%



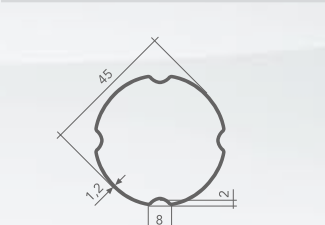
Thickness (mm)	kg/m
1,5	1,79

T. 1242 • 45%



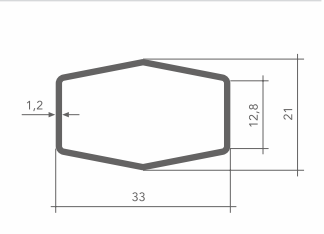
Thickness (mm)	kg/m
1,2	0,550

T. 1658 • 40%



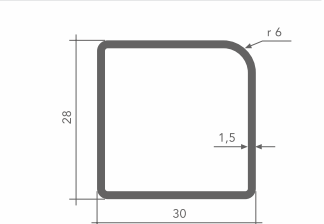
Thickness (mm)	kg/m
1,2	1,300

T. 960 • 70%



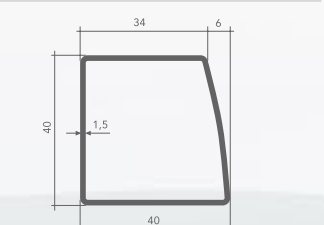
Thickness (mm)	kg/m
1,2	0,85

T. 892 • 70%



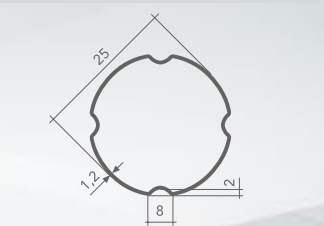
Thickness (mm)	kg/m
1,5	1,28

T. 1241 • 50%



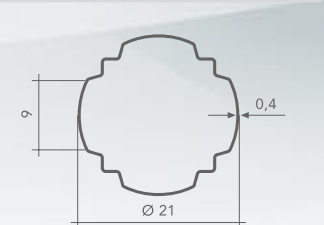
Thickness (mm)	kg/m
1,5	1,79

T. 1590 • 45%



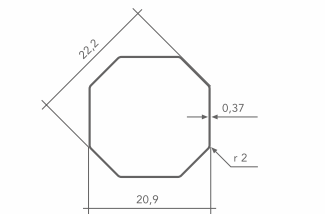
Thickness (mm)	kg/m
1,2	0,704

T. 1789 • 100%



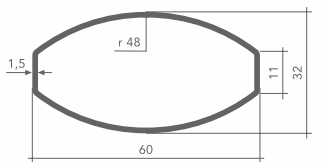
Thickness (mm)	kg/m
0,4	0,20

T. 1784 • 75%



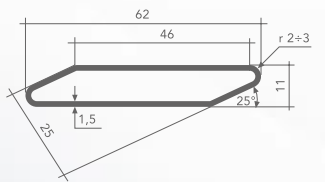
Thickness (mm)	kg/m
0,37	0,21

T. 1618 • 50%



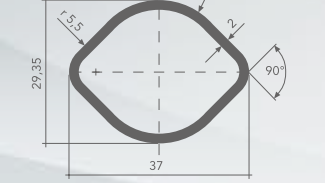
Thickness (mm)	kg/m
1,5	1,79

T. 1572 • 50%



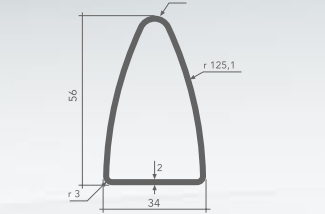
Thickness (mm)	kg/m
1,5	1,610

T. 1669 • 65%



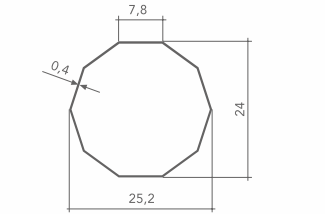
Thickness (mm)	kg/m
2	1,48

T. 1966 • 40%



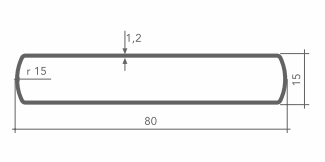
Thickness (mm)	kg/m
2	2,37

T. 1993 • 75%



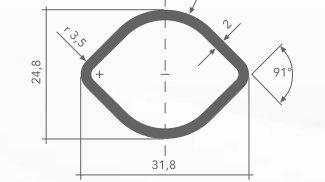
Thickness (mm)	kg/m
0,4	0,24

T. 1632 • 45%



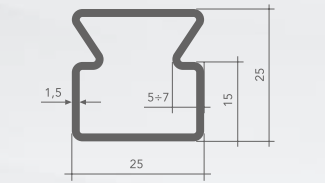
Thickness (mm)	kg/m
1,2	1,652

T. 1799 • 70%



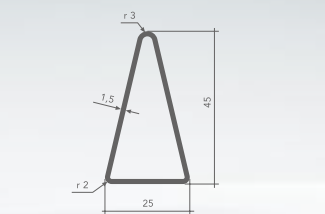
Thickness (mm)	kg/m
2	1,23

T. 1414 • 70%



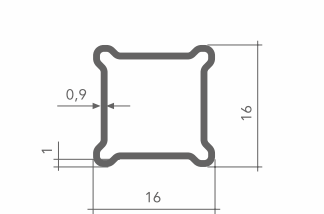
Thickness (mm)	kg/m
1,5	1,35

T. 1963 • 45%



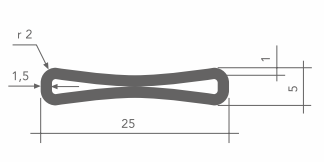
Thickness (mm)	kg/m
1,5	1,42

T. 1910 • 100%



Thickness (mm)	kg/m
0,9	0,468

T. 1747 • 100%



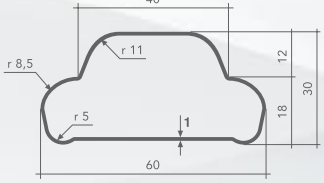
Thickness (mm)	kg/m
1,5	0,6

T. 1988 • 70%



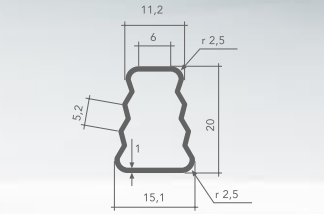
Thickness (mm)	kg/m
2	1,48

T. 941 • 50%



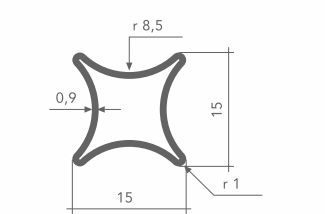
Thickness (mm)	kg/m
1	1,21

T. 1969 • 70%



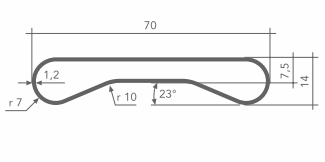
Thickness (mm)	kg/m
1	0,398

T. 1882 • 100%



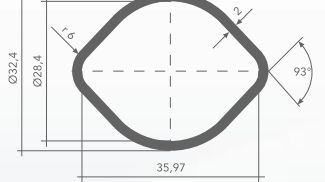
Thickness (mm)	kg/m
0,9	0,401

T. 1685 • 45%



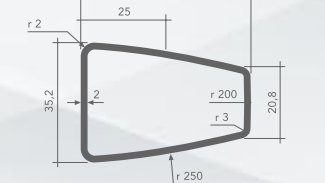
Thickness (mm)	kg/m
1,2	1,504

T. 1987 • 65%



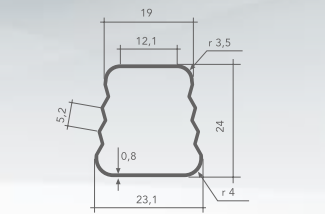
Thickness (mm)	kg/m
2	1,67

T. 1879 • 45%



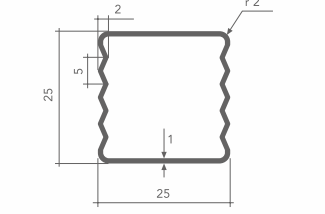
Thickness (mm)	kg/m
2	2,37

T. 1968 • 60%



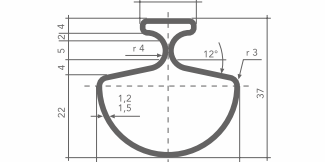
Thickness (mm)	kg/m
0,8	0,517

T. 1964 • 70%



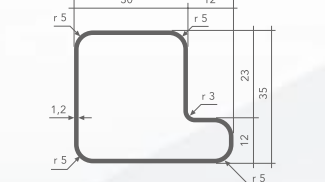
Thickness (mm)	kg/m
1	1,48

T. 1960 • 50%



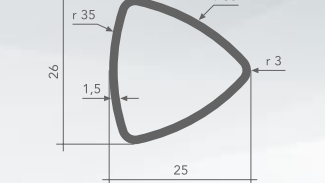
Thickness (mm)	kg/m
1,2	1,300

T. 2024 • 50%



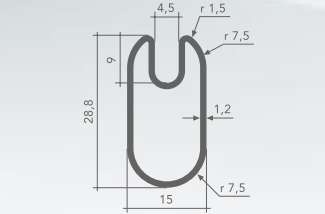
Thickness (mm)	kg/m
1,2	1,33

T. 2054 • 75%



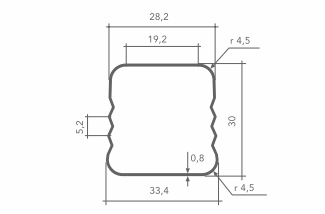
Thickness (mm)	kg/m
1,5	0,91

T. 2065 • 70%



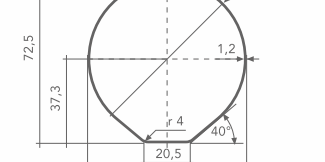
Thickness (mm)	kg/m
1,2	0,82

T. 1967 • 50%



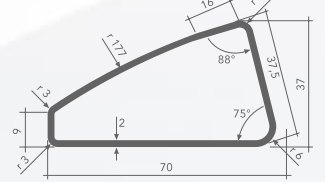
Thickness (mm)	kg/m
0,8	0,722

T. 1933 • 30%



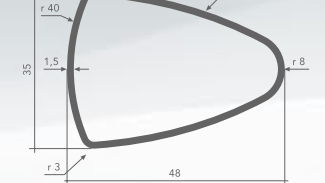
Thickness (mm)	kg/m
1,2	2,096

T. 2021 • 45%



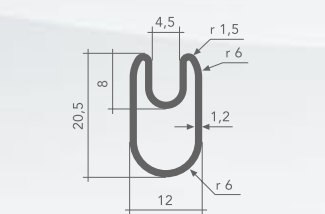
Thickness (mm)	kg/m
2	2,71

T. 2055 • 60%



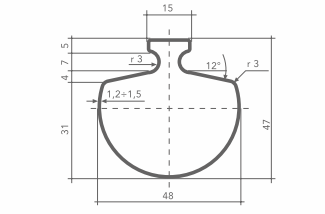
Thickness (mm)	kg/m
1,5	1,57

T. 2066 • 80%



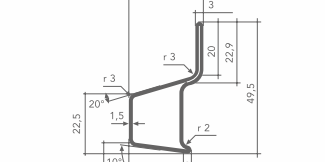
Thickness (mm)	kg/m
1,2	0,62

T. 1952 • 40%



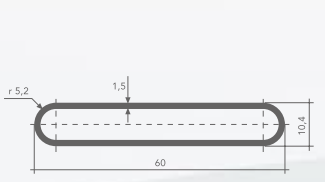
Thickness (mm)	kg/m
1,2	1,650

T. 1930 • 35%



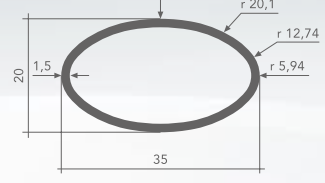
Thickness (mm)	kg/m
1,5	1,72

T. 2023 • 50%



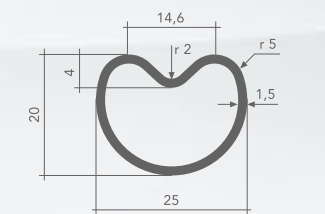
Thickness (mm)	kg/m
1,5	1,49

T. 2039 • 75%



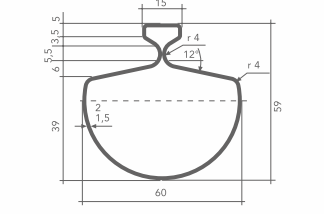
Thickness (mm)	kg/m
1,5	0,98

T. 2062 • 80%



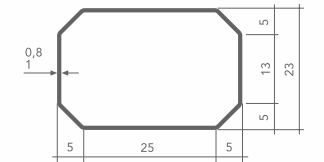
Thickness (mm)	kg/m
1,5	0,87

T. 1959 • 35%



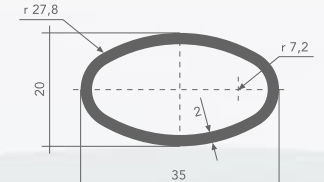
Thickness (mm)	kg/m
1,5	2,46

T. 2022 • 70%



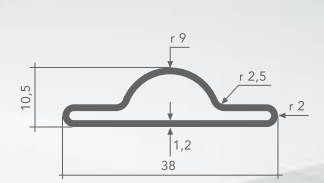
Thickness (mm)	kg/m
0,8	0,64

T. 1989 • 75%



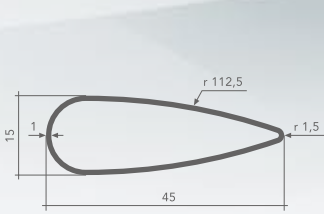
Thickness (mm)	kg/m
2	1,28

T. 2058 • 75%



Thickness (mm)	kg/m
1,2	0,79

T. 2048 • 70%



Thickness (mm)	kg/m
1	0,76



T. 2050	• 60%	T. 2057	• 60%	T. 2059	• 50%	T. 1985	• 50%
Thickness (mm)	kg/m	Thickness (mm)	kg/m	Thickness (mm)	kg/m	Thickness (mm)	kg/m
1,5	1,61	2	1,78	1,5	1,49	1,5	1,87

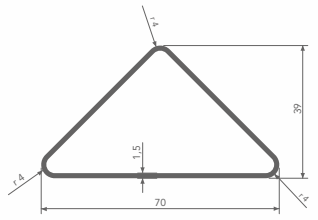
T. 2040	• 60%	T. 2064	• 50%	T. 2073	• 70%	T. 2074	• 70%
Thickness (mm)	kg/m	Thickness (mm)	kg/m	Thickness (mm)	kg/m	Thickness (mm)	kg/m
1	1,36	1,5	1,57	1,5	1,13	1	0,72

T. 2078	• 100%	T. 2083	• 35%	T. 2084	• 35%	T. 2086	• 80%
Thickness (mm)	kg/m	Thickness (mm)	kg/m	Thickness (mm)	kg/m	Thickness (mm)	kg/m
1	0,45	2	2,45	1,5	2,65	1,5	0,72

T. 2093 • 60% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1,5</td><td>1,50</td></tr></table>	Thickness (mm)	kg/m	1,5	1,50	T. 2095 • 60% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>0,7</td><td>0,51</td></tr></table>	Thickness (mm)	kg/m	0,7	0,51	T. 2097 • 35% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>2±0,2</td><td>2,31</td></tr></table>	Thickness (mm)	kg/m	2±0,2	2,31	T. 2099 • 70% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1</td><td>0,67</td></tr></table>	Thickness (mm)	kg/m	1	0,67		
Thickness (mm)	kg/m																				
1,5	1,50																				
Thickness (mm)	kg/m																				
0,7	0,51																				
Thickness (mm)	kg/m																				
2±0,2	2,31																				
Thickness (mm)	kg/m																				
1	0,67																				
T. 2102 • 70% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1</td><td>0,57</td></tr></table>	Thickness (mm)	kg/m	1	0,57	T. 2103 • 60% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1±0,2</td><td>1,30</td></tr></table>	Thickness (mm)	kg/m	1±0,2	1,30	T. 2104 • 60% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1,5</td><td>1,20</td></tr></table>	Thickness (mm)	kg/m	1,5	1,20	T. 2106 • 70% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1,5</td><td>0,83</td></tr></table>	Thickness (mm)	kg/m	1,5	0,83		
Thickness (mm)	kg/m																				
1	0,57																				
Thickness (mm)	kg/m																				
1±0,2	1,30																				
Thickness (mm)	kg/m																				
1,5	1,20																				
Thickness (mm)	kg/m																				
1,5	0,83																				
T. 2192 • 60% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1,5</td><td>1,28</td></tr><tr><td>1,8</td><td>1,52</td></tr></table>	Thickness (mm)	kg/m	1,5	1,28	1,8	1,52	T. 2191 • 60% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>0,9</td><td>0,802</td></tr></table>	Thickness (mm)	kg/m	0,9	0,802	T. 2186 • 60% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1,5</td><td>1,24</td></tr></table>	Thickness (mm)	kg/m	1,5	1,24	T. 2183 • 55% <table><tr><th>Thickness (mm)</th><th>kg/m</th></tr><tr><td>1,5</td><td>1,72</td></tr></table>	Thickness (mm)	kg/m	1,5	1,72
Thickness (mm)	kg/m																				
1,5	1,28																				
1,8	1,52																				
Thickness (mm)	kg/m																				
0,9	0,802																				
Thickness (mm)	kg/m																				
1,5	1,24																				
Thickness (mm)	kg/m																				
1,5	1,72																				

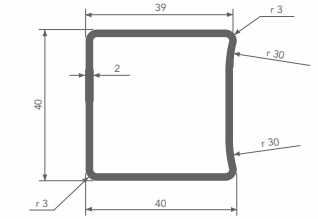


T. 2172 • 45%



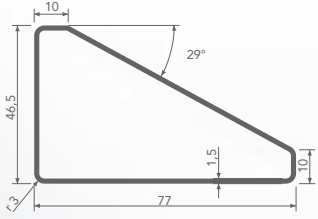
Thickness (mm)	kg/m
1,5	2,02

T. 2148 • 50%



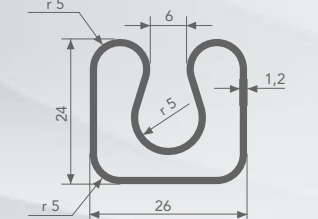
Thickness (mm)	kg/m
2	2,37

T. 2143 • 45%



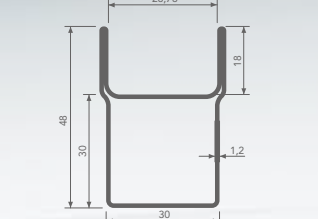
Thickness (mm)	kg/m
1,5	2,53

T. 2131 • 80%



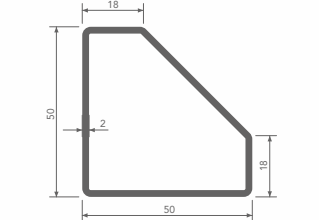
Thickness (mm)	kg/m
1,2	1,15

T. 2122 • 50%



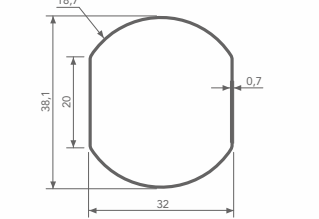
Thickness (mm)	kg/m
1,2	1,82

T. 2165 • 45%



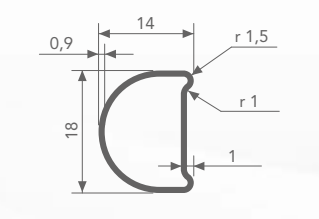
Thickness (mm)	kg/m
2	2,71

T. 2146 • 60%



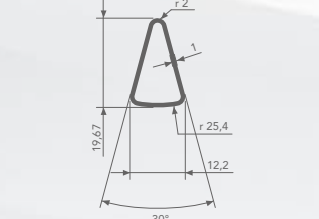
Thickness (mm)	kg/m
0,7	0,63

T. 2135 • 90%



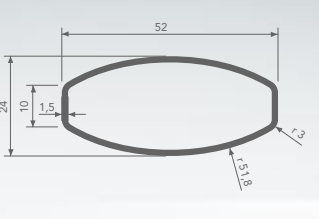
Thickness (mm)	kg/m
0,9	0,379

T. 2130 • 60%



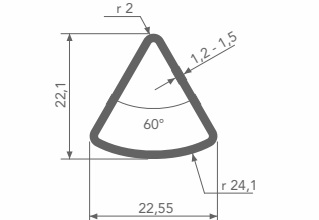
Thickness (mm)	kg/m
1	0,388

T. 2124 • 55%



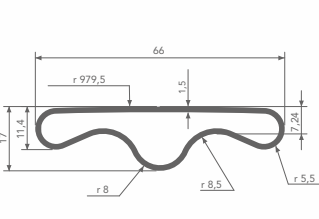
Thickness (mm)	kg/m
1,5	1,46

T. 2162 • 75%



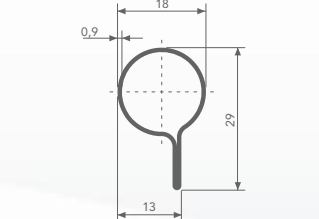
Thickness (mm)	kg/m
1,2	1,52

T. 2145 • 50%



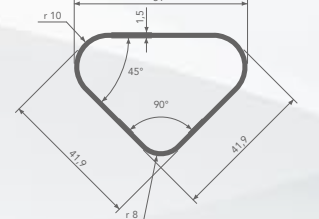
Thickness (mm)	kg/m
1,5	1,79

T. 2134 • 65%



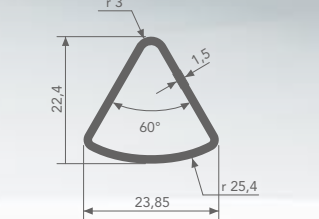
Thickness (mm)	kg/m
0,9	0,535

T. 2112 • 45%



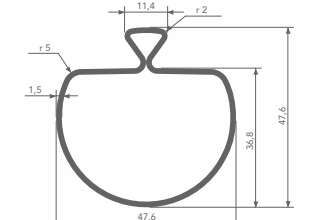
Thickness (mm)	kg/m
1,5	1,61

T. 2127 • 75%



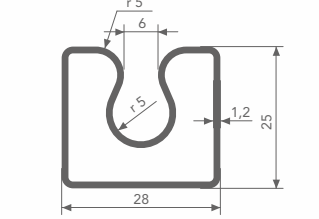
Thickness (mm)	kg/m
1,2	0,645

T. 2150 • 60%



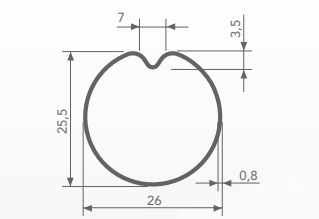
Thickness (mm)	kg/m
1,5	1,94

T. 2144 • 75%



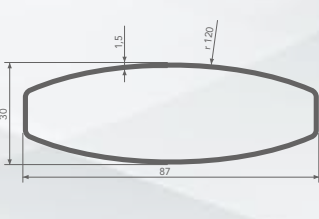
Thickness (mm)	kg/m
1,2	1,2

T. 2132 • 70%



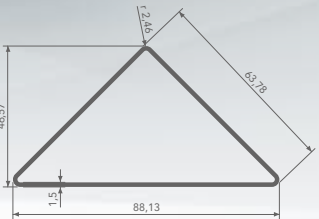
Thickness (mm)	kg/m
0,8	0,517

T. 2117 • 45%



Thickness (mm)	kg/m
1,5	2,35

T. 2129 • 40%



Thickness (mm)	kg/m
1,5	2,53

**SPECIAL SHAPES ARE ENGINEERED
ACCORDING TO CUSTOMER
SPECIFICATIONS**
*ULTERIORI SAGOME SPECIALI
SONO STUDIATE E FORNITE
IN ACCORDO CON IL CLIENTE*



WELDED TUBES: QUALITY AND ENVIRONMENT

TUBI SALDATI: QUALITÀ E AMBIENTE

CLOSE ATTENTION TO EXCELLENCE NOT ONLY IN TERMS OF PRODUCT QUALITY, BUT ALSO OF PROCESS AND SERVICE

Marcegaglia R&D team, thanks to its deep knowledge of raw materials and manufacturing process, develops products on customers’ most demanding requirements. The R&D division’s commitment is to continuously expand the production chain and to develop new process and finishings. The support provided to some technologically advanced industries is a genuine partnership with customers aimed to develop new products and solutions. Marcegaglia is often considered the pioneer to new and higher quality standards.

GRANDE ATTENZIONE ALL’ECCELLENZA NON SOLO PER LA QUALITÀ DEL PRODOTTO, MA ANCHE PER LA QUALITÀ DI PROCESSO E DI SERVIZIO

La Ricerca e Sviluppo Marcegaglia, grazie all’approfondita conoscenza delle materie prime impiegate e dei loro processi di lavorazione, mette a punto prodotti in grado di soddisfare le più sofisticate esigenze della clientela. L’impegno della divisione Ricerca e Sviluppo si concentra su una continua implementazione della filiera e nella realizzazione di nuove lavorazioni e finiture. Il supporto fornito ad alcuni settori tecnologicamente avanzati si traduce in un aiuto alla clientela per l’individuazione di nuovi prodotti e di nuove soluzioni d’impiego, nonché in un punto di riferimento internazionale e per la ricerca di nuovi e più alti standard qualitativi.

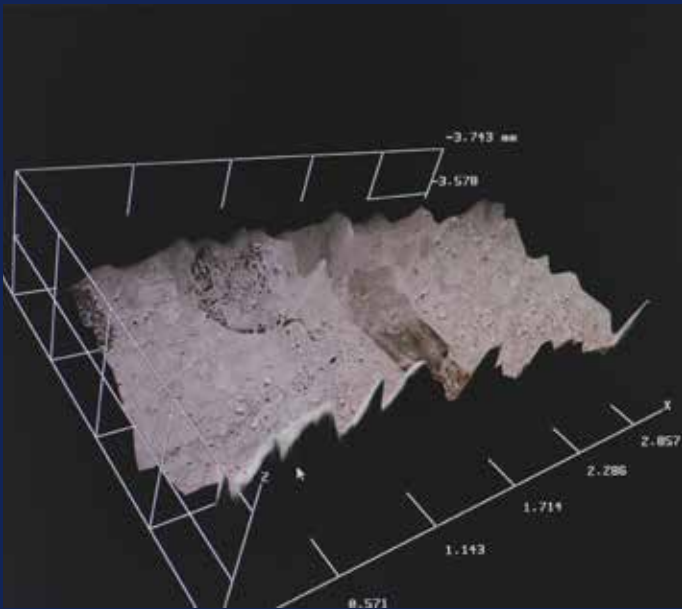


The production facilities are equipped with state-of-the-art machinery and are at the core of a **continuous investment policy** by Marcegaglia aimed to increase and sustain their production capacity and range, the **quality** of processes and **safety** and environmental standards.

The Quality Management System of Marcegaglia Carbon Steel welded tube division has the following certifications:

- **ISO 9001:2015** (Quality System)
- **ISO 14001:2015** (Environmental System)
- **BS OHSAS 18001:2007** (Health and Safety System)
- **ISO 50001:2011** (Energy System)

Marcegaglia Carbon Steel tube division is also certified with **IATF 16949:2016** (automotive industry), **ISO/TS 29001:2011** (petroleum, petrochemical and natural gas industries), **RINA approval** for tubes for naval construction (EN 10219-1, EN 10210-1), **CE marking** for structural tubes according to European Directive - Regulation N. 305/2011/EU (EN 10219, EN 10210), **AD 2000 - W0** for tubes for pressure purposes according to Directive 2014/68/UE with TÜV Rheinland (EN 10217-1/2), **API-5CT** certification (tubes for the oil sector) group 1 H40/PSL1 and J55/PSL1, **API-5L** certification (tubes for the oil sector) X52-PSL1.



Le sedi produttive sono all’avanguardia per la tecnologia dei loro impianti e sono al centro degli **investimenti costanti** di Marcegaglia per incrementare e migliorare le proprie capacità, gamme produttive e **qualità** dei processi, oltre alla **sicurezza** e alla tutela dell’ambiente.

Il Sistema di Gestione per la Qualità della divisione tubi saldati Marcegaglia Carbon Steel possiede le seguenti certificazioni:

- **ISO 9001:2015** (Sistema di Qualità)
- **ISO 14001:2015** (Sistema di Qualità Ambientale)
- **BS OHSAS 18001:2007** (Sistema di Salute e Sicurezza)
- **ISO 50001:2011** (Sistema di Energia)

La divisione tubi saldati Marcegaglia Carbon Steel è inoltre certificata **IATF 16949:2016** (industria automobilistica), **ISO/TS 29001:2011** (settore petrolifero, petrolchimico, gas naturale), **approvazione RINA** per tubi per applicazioni navali (EN 10219-1, EN 10210-1), **marcatatura CE** per tubi strutturali in accordo con la Direttiva Europea - Regolamento N. 305/2011/EU (EN 10219-1, EN 10210-1), **AD 2000 - W0** per tubi per impieghi a pressione in accordo con la Direttiva 2014/68/UE con TÜV Rheinland (EN 10217-1/2), certificazione **API-5CT** (tubi per settore petrolifero) gruppo 1 H40/PSL1 e J55/PSL1, certificazione **API-5L** (tubi per settore petrolifero) X52-PSL1.

STANDARD AND OPTIONAL TESTING
Prove e controlli standard e opzionali
Chemical composition - Analisi chimica
Tensile test - Prova di trazione
Flattening test - Prova di schiacciamento
Drift expanding test - Prova di allargamento
Impact test - Prova di resilienza
Eddy current test - Prova a correnti indotte
Flux leakage test - Prova a flusso disperso
Ultrasonic test - Controllo a ultrasuoni
Visual test - Controllo visivo
Hydraulic test - Prova idraulica
Dimensional test - Controllo dimensionale
Micrographic analysis - Esami micrografici
Issue of specific certificates - Emissione di certificati specifici



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