

Flat Bar

Fer Plat • Pletina

Rolling Tolerances • Laminage Tolérances •
Tolerancias de Rodadura as DIN 1017
Length •Longueur • Longitud : 6 Metres (+/- 50 mm)

Size (mm)

10x3	10x4	12x3	12x4	12x5	12x6	15x3
15x4	15x5	20x3	20x4	20x5	20x6	20x8
25x3	25x4	25x6	25x8	25x10	30x3	30x4
30x5	30x6	30x8	30x9	30x10	32x3	32x4
32x5	32x6	32x8	32x10	35x4	35x5	35x6
35x8	35x10	40x4	40x5	40x6	40x8	40x10
45x5	45x6	45x8	45x10	50x4	50x5	50x6
50x8	50x10	60x5	60x6	60x8	60x10	70x5
70x6	70x8	70x10	70x15	70x20	80x6	80x8
80x10	80x15	80x20	90x8	90x10	90x12	90x15
90x20	100x6	100x8	100x10	100x12	100x15	100x20



Rolling Tolerances •Laminage Tolérances
•Tolerancias de Rodadura as per ASTM A36
•Length •Longueur •Longitud : 20 feet/pied (-0/+2)

Size (inch)

1/2x1/8"	5x8x1/8"	3/4x1/8"	1x1/8"	1 1/4x1/8"
1 1/2x1/8"	1 2x3/16"	5/8x3/16"	3/4x3/16"	1x3/16"
1 1/4x3/16"	1 1/2x3/16"	2x3/16"	2x3/16"	2 1/2x3/16"
3x3/16"	1x2x1/4"	3/4x1/4"	1x1/4"	1 1/4x1/4"
1 1/2x1/4"	2x1/4"	2 1/2x1/4"	3x1/4"	4x1/4"
1x3/8"	1x1/4x3/8"	1x1/2x3/8"	2x3/8"	2 1/2x3/8"
3x3/8"	4x3/8"	1x1/2"	1 1/4x1/2"	1 1/2x1/2"
2x1/1"	2 1x2/2"	3x1/2"	3x1/2"	

Round Bar

Fer Round Lisse • Barra redonda

Rolling Tolerances •Laminage Tolérances
•Tolerancias de Rodadura as DIN 1017
Length •Longueur •Longitud : 6 Metres (+/- 50 mm)

Size (mm)

6	
8	5 / 16"
10	3 / 8"
12	7 / 16"
13	1 / 2"
14	5 / 8"
15	3 / 4"
16	13 / 16"
18	7 / 8"
19	1"
20	
21	
22	
25	



Water And Gas Pipes

Tubes de Gas Et De L'eau • Tuberías De Agua Y Gas

NF A 49 – 145

DN	SIZE		WT mm	LIGHT				WT mm	MEDIUM				WT mm	HEAVY			
	OD			WEIGHT					WEIGHT					WEIGHT			
	(nom) inc	mm		BPE kg/m	BTC kg/m	GPE kg/m	GTC kg/m		BPE kg/m	BTC kg/m	GPE kg/m	GTC kg/m		BPE kg/m	BTC kg/m	GPE kg/m	GTC kg/m
15	1/2	21.3	2.3	1.08	1.09	1.15	1.16	2.6	1.20	1.21	1.27	1.28	3.2	1.43	1.44	1.50	1.51
20	3/4	26.9	2.3	1.40	1.41	1.49	1.50	1.6	1.56	1.57	1.65	1.66	3.2	1.87	1.88	1.96	1.97
25	1	33.7	2.9	2.20	2.22	2.32	2.34	3.2	2.41	2.43	2.53	2.55	4.0	2.93	2.95	3.05	3.07
32	11/4	42.4	2.9	2.82	2.85	2.97	3.00	3.2	3.09	3.12	3.24	3.27	4.0	3.79	3.82	3.94	3.97
40	11/2	48.3	2.9	3.25	3.29	3.42	3.46	3.2	3.56	3.6	3.73	3.77	4.0	3.37	4.41	4.54	4.58
50	2	60.3	3.2	4.51	4.58	4.73	4.80	3.6	4.03	4.1	5.24	5.31	4.5	6.19	6.26	6.40	6.47
65	21/2	76.1	3.2	5.75	5.87	6.02	6.14	3.6	6.44	6.56	6.72	6.84	4.5	7.95	8.07	8.22	8.34
80	3	88.9	3.2	6.76	6.93	7.08	7.24	4.0	8.38	8.55	8.70	8.87	4.9	10.0	10.2	10.32	10.52
100	4	114.3	3.6	9.83	10.1	10.25	10.52	4.5	12.2	12.5	12.61	12.91	5.4	14.5	14.8	14.91	15.21
125	5	139.7	4.5	15.0	15.5	15.63	16.15	4.5	15.0	15.5	15.63	16.15	5.4	17.9	18.4	18.41	18.91
150	6	165.2	4.5	17.8	18.4	18.55	19.17	4.5	17.8	18.4	18.55	19.17	5.4	21.3	21.9	21.9	22.50

ASTM A 53

SIZE				WEIGHT					
NPS	OD	mm	WT	mm	OD		WT		SCHEDULE NO.
	nom (inc)		ib/ft		kg/m	ib/ft	kg/m		
1/2	0.840	21.3	0.109	2.77	0.85	1.27	0.85	1.27	40
3/4	1.050	26.7	0.083	2.11	0.86	1.28	...	...	10
			0.113	2.87	1.13	1.69	1.13	1.69	40
1	1.315	33.4	0.109	2.77	1.40	2.09	...	...	10
			0.133	3.38	1.68	2.50	1.68	2.50	40
1/4	1.660	42.2	0.109	2.77	1.81	2.70	...	...	10
			0.140	3.56	2.27	3.39	2.28	3.40	40
1 1/2	1.900	48.3	0.109	2.77	2.08	3.10	...	...	10
			0.145	3.77	2.72	4.05	2.72	4.04	40
2	2.375	60.3	0.109	2.77	2.64	3.93	...	...	10
			0.154	3.91	3.65	5.44	3.68	5.46	40
2 1/2	2.875	73.0	0.120	3.05	3.53	5.26	...	...	10
			0.203	5.16	5.79	8.63	5.82	8.67	40
3	3.500	88.9	0.120	3.05	4.33	6.45	...	...	10
			0.216	5.49	7.58	11.29	7.62	11.35	40
3 1/2	4.000	101.6	0.120	3.05	4.97	7.41	...	...	10
			1.226	5.74	9.11	13.57	9.20	13.71	40
4	4.500	114.3	0.120	3.05	5.61	8.36	...	...	10
			0.156	3.96	7.24	10.78	...	...	...
			0.188	4.78	8.66	12.91	...	...	...
			0.219	5.56	10.01	14.91	...	...	...
			0.237	6.02	10.79	16.07	10.89	12.23	10
			0.250	6.35	11.35	16.90	...	...	40
			0.134	3.40	7.77	11.58	...	...	10
			0.156	3.96	9.01	13.41	...	...	...
5	5.563	141.3	0.188	4.78	10.79	16.09	...	...	...
			0.219	5.56	12.50	18.61	...	...	...
			0.258	6.35	14.62	21.77	14.81	22.07	40
			0.281	7.14	15.85	23.62	...	...	...
			0.134	3.40	9.29	13.84	...	...	...
			0.188	4.78	12.92	19.27	...	...	...
6	6.625	168.3	0.219	5.56	14.98	22.31	...	...	...
			0.250	6.35	17.02	25.36	...	...	...
			0.280	7.11	18.97	28.26	19.18	28.58	...
			0.312	7.92	21.04	31.32	...	...	...
			0.188	4.78	16.94	25.26	...	...	...
			1.203	5.16	18.26	27.22	...	...	...
8	8.625	219.1	0.219	5.56	19.66	29.28	...	...	...
			0.250	6.35	22.36	33.31	...	...	...
			0.277	7.04	24.70	36.31	...	...	...
			0.312	7.92	27.70	41.24	...	...	...
			0.322	8.18	28.55	42.55	...	...	...
			0.188	4.78	21.21	31.62	...	...	...
10	10.750	273.0	0.203	5.16	22.87	34.08	...	...	...
			0.219	5.56	24.63	36.67	...	...	...
			0.250	6.35	28.04	41.75	...	...	...
			0.279	7.09	31.20	46.49	...	...	...
			0.307	7.80	34.24	51.01	...	...	...
			0.344	8.74	38.23	56.96	...	...	...
			0.365	9.27	40.48	60.29	...	...	...
			0.203	5.16	27.20	40.55	...	...	...
12	12.750	323.8	0.219	5.56	29.31	43.63	...	...	...
			0.250	6.35	33.38	49.71	...	...	...
			0.281	7.14	37.42	55.75	...	...	...
			0.312	7.92	41.45	61.69	...	...	...
			0.330	8.38	43.77	65.18	...	...	...
			0.344	8.74	45.58	67.90	...	...	...
			0.375	9.52	49.56	73.78	...	...	...

GPE:
 Galvanised Plain
 •Galvanisé à bout plat
 •Llano galvanizado

GTC:
 Galvanised Threaded and Coupled
 •Galvanisé fileté et couplé
 •Roscado galvanizado y acoplado

BPE:
 Black Plain
 •Noire à bout plat
 •llanura negra

BTC:
 Black Threaded and Coupled
 •Noire avec manchon et cliquet
 •Roscado negro y acoplado

OD:
 Outsitde diameter
 •Diamètre extérieure
 •Diámetro exterior

WT:
 Wall thickness
 •Epaisseur
 •Espesor de la pared

Nails

Clous • Clavos

Cross Section From Our Program

SMOOTH Diameter x Length	RING Diameter x Length	SCREW Diameter x Length
1.80 mm x 32 mm - 50 mm	1.80 mm x 32 mm - 50 mm	1.80 mm x 32 mm - 50 mm
2.10 mm x 32 mm - 50 mm	2.10 mm x 32 mm - 50 mm	2.10 mm x 32 mm - 50 mm
2.50 mm x 45 mm - 70 mm	2.50 mm x 45 mm - 70 mm	2.50 mm x 45 mm - 70 mm
2.85 mm x 50 mm - 80 mm	2.85 mm x 50 mm - 80 mm	2.85 mm x 50 mm - 80 mm
3.05 mm x 50 mm - 75 mm	3.05 mm x 50 mm - 75 mm	3.05 mm x 50 mm - 75 mm
3.30 mm x 60 mm - 100 mm	3.30 mm x 60 mm - 100 mm	3.30 mm x 60 mm - 100 mm
3.90 mm x 60 mm - 100 mm	3.90 mm x 60 mm - 95 mm	3.90 mm x 60 mm - 95 mm

Raw Material Quality •Qualité de Matière Première •Calidad de la materia prima : AISI -1008
Head Type •Type de la tête •Tipo de cabeza : Flat / Plat – Cone
Packaging •Colisage •Embalaje : 5-25 kg cardboard boxes, 500-100 kg streched
Cardboard boxes on Europalette •Dans des coffres en carton sur des Europalettes •Cajas de carton en Europalette

Coil Nails

Clous • Clavos en bobina

Cross Section From Our Program

SMOOTH Nail coil	RING Nail coil	SCREW Nail coil
2.10 mm x 32 mm - 50mm 400 pcs	2.10 mm x 32 mm - 50 mm 400 pcs	2.10 mm x 32 mm - 50mm 400 pcs
2.50 mm x 45 mm - 70mm 300 pcs	2.50 mm x 45 mm - 70 mm 300 pcs	2.50 mm x 45 mm - 70mm 300 pcs
2.85 mm x 50 mm - 80mm 250 pcs	2.85 mm x 50 mm - 80 mm 250 pcs	2.85 mm x 50 mm - 80mm 250 pcs
3.05 mm x 50 mm - 75mm 200 pcs	3.05 mm x 50 mm - 75 mm 200 pcs	3.05 mm x 50 mm - 75mm 200 pcs
3.30 mm x 60 mm - 100mm 165 pcs	3.30 mm x 60 mm - 100 mm 165 pcs	3.30 mm x 60 mm - 100mm 165 pcs

Raw Material Quality •Qualité de Matière Première •Calidad de la materia prima : AISI -1008
Head Type •Type de la tête •Tipo de cabeza : Flat / Plat – Cone
Packaging •Colisage •Embalaje : 5-25 kg cardboard boxes, 500-100 kg streched
Cardboard boxes on Europalette •Dans des coffres en carton sur des Europalettes •Cajas de carton en Europalette

Steel Billet

Billette • Billeto de acero

Quality •Qualité •Calidad: DIN 17100, TS 708, ASTM A 615, JISO 3112 (1985) NFA 35 – 16 (1986) Equivalent Standards 20 MnSi.

All Desired Chemical Compositions can be met. Tous les compositions chimique demandées peuvent être assurées.
• Todas las composiciones químicas deseadas pueden cumplirse

Length •Lounguer •Longitud : 3,5 – 15 Meters

Size (mm)

80x80	100x100	110x110
120x120	125x125	130x130
150x150	180x180	200x200



Reinforcing Bars

Fers A Beton • Barras de Acero para Hormigòn

Length •Lounguer •Longitud : 6 Metres up to 16 Metres
Size / Dimension : Once folded bundles available •
Fardeaut pliée disponible • Una vez plegados los paquetes disponibles.
6 mm. (Cold drawned •Lamine á froid •Trefilado en frio) up to jusqu'a 50mm.

American	Standards
Canadian	Standards
Euronorm	
British	Standards
German	Standards
Portuguese	Standards
Israeli	Standards
Ethiopian	Standards
Japanies	Standards
Korean	Standards



Embossed Sheet Metal

Tôle Embossée • Hoja de metal en relieve

MM 100



MM 200



MM 300



MM 400



MM 500



MM 600



MM 700



MM 800



MM 900



MM 1000



Square Profiles

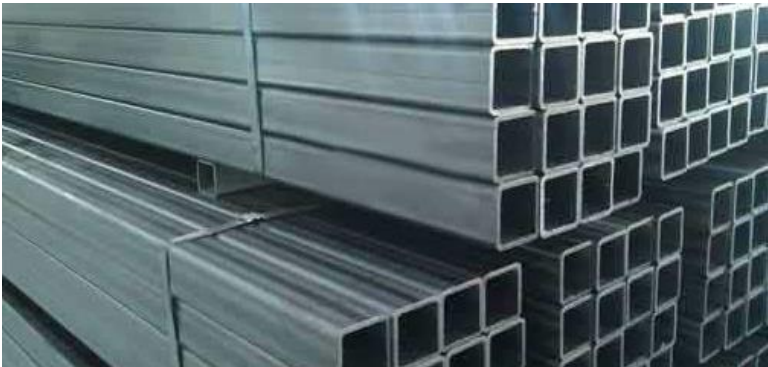
Fer Carres • Perfiles cuadrados

Dimensions and conventional masses per unit length of pipes. Les dimensions et les masses standart en unite de longueur – tube - Dimensiones y masas convencionales por unidad de longitud de tuberías.

Quality •Qualité •Calidad : DIN 59411, DIN EN 2395

Size (mm) Dimensions	Wall thicknesses mm Epaisseur											
	0.70 kg/m	0.80 kg/m	0.90 kg/m	1 kg/m	1.5 kg/m	2 kg/m	2.5 kg/m	3 kg/m	4 kg/m	5 kg/m	6 kg/m	7.0 kg/m
10 x 10	0.20	0.22	0.26	0.28	0.40							
12x 12	0.24	0.28	0.31	0.34								
15x15	0.32	0.35	0.39	0.44	0.63	0.81						
16x16	0.33	0.38	0.42	0.47	0.68							
18x18	0.36	0.42	0.47	0.53	0.77							
19x19	0.40	0.46	0.51	0.57	0.83	1.06						
20x20	0.42	0.47	0.53	0.60	0.87	1.13	1.33	1.60				
25x25	0.54	0.60	0.69	0.75	1.10	1.44	1.72	2.70				
30x30		0.73	0.82	0.91	1.34	1.75	2.15	2.39	3.27			
35x35			0.98	1.07	1.57	2.07	2.53	2.86				
40x40				1.22	2.07	2.38	2.93	3.33	4.25			
45x45					2.38	2.69	3.33	3.80	4.88			
50x50					2.69	3.01	3.72	4.28	5.51			
60x60					3.01	3.64	4.50	5.22	6.76	8.13		
70x70					3.64	4.26	5.29	6.16	8.02	9.70		
75x75					4.26				8.65			
80x80						4.89	6.08	7.10	9.28	11.30		
90x90					4.89			8.04	10.50	12.80		
100x100								8.99	11.80	14.40	17.71	19.40
110x110									12.69	16.33	18.69	
120x120									14.820	17.643	21.023	23.80
125x125										18.05	21.48	24.90
130x130									16.17	20.135	23.926	
170x170												
210x210												
250x250												

Note : Any other sizes might be available depending on the production Schedule of the mills.
Autres dimensions peuvent être produites selon le plan de production de l'usine.
Cualquier otro tamaño puede estar disponible según el Programa de producción de las fábricas.



Steel Wires

Fil De Fer • Alambres de acero

STELL WIRES • FIL DE FER • Alambres de Acero			
Metarial	Diameter (mm)	Packing	Packing
Low Carbon Galvaized Wire	1.80 - 5.00	>>in coils of 80-1.000 kg >>Rozette or normal winding	>>Commercial or Heavy Grade zinc coating
Low Carbon Black Annealed Wire	1.00 - 7.50	>>in coils of 30 - 250 kg	
Low Carbon Oiled Bailg Wire	1.60 - 3.00	>>in coils of 50 kg	
Low Coated Galvanized Wire	2.50 - 4.00	>>in coils of 30- 500 kg	>>PVC Coated Hot Dip Galvanized wire or Black Annealed Wire >>Extrusion PVC Coating of 1 mm >>In Colours of Blue Green, White Grey or desired colours
IOWA Type Barbed Wire		>>in coils of 15 - 40 kg	>>PVC Coated Hot Dip Galvanized wire or Black Annealed Wire >>Extrusion PVC Coating of 1 mm >>In Colours of Blue Green, White Grey or desired colours >> djkajsdaldllasl
IOWA Type Barbed Wire		>>in coils of 15 - 40 kg	>>PVC Coated Hot Dip Galvanized wire or Black Annealed Wire >>Extrusion PVC Coating of 1 mm
IOWA Type Barbed Wire		>>in coils of 15 - 40 kg	>>PVC Coated Hot Dip Galvanized wire or Black Annealed Wire >>Extrusion PVC Coating of 1 mm >>In Colours of Blue Green, White Grey or desired colours >> djkajsdaldllasl
IOWA Type Barbed Wire		>>in coils of 15 - 40 kg	>>PVC Coated Hot Dip Galvanized wire or Black Annealed Wire >>Extrusion PVC Coating of 1 mm



Wire Rod

Fil Machine • Alambron

Quality •Qualité •Calidad : DIN 17100, EN 10025 ST 37,2
Coll weight • Poids De La Bobine : Abt / Approx 1 Ton SAE 1010, SAE 1012, SAE 1015, SAE 1018, SAE 1020 or Equivalent Standards BS 449 GR 250

Size (mm)

5,5	6	6,5	6,8
7	7,5	8	8,5
9	9,35	10	10,5
11	11,5	12	12,5
13	14	16	



Debar In Coil

Fer Beton En Bobine Crénelée • Barras de Acero para Hormigòn en bobina

Quality •Qualité •Calidad: ASTM A Grade 60
Size (mm) Dimension : 6 – 8 – 10 – 12 – 14
Coil Weight / Poids De La Bobine : ABT / Approx 1 Mton



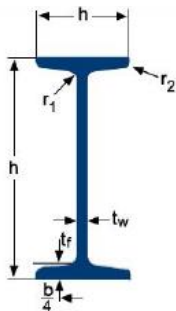
Ipn Bars

Poutrelles • Vigas

Length •Longueur •Longitud: 6, 9, 12 metres (+/- 50 mm)
Length •Longueur •Longitud: 20, 30, 40 feet (-0/+2")

Product (Produit • Producto)	Size (mm)
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IPN	80x42x3,9
IPN	100x50x4,5
IPN	120x58x5,1
IPN	140x66x5,7
IPN	160x74x6,3



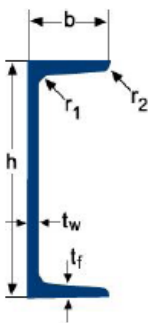
Upn Bars

Poutrelles • Vigas

Length •Lounguer •Longitud: 6, 9, 12 metres (+/- 50 mm)
Length •Lounguer •Longitud: 20, 30, 40 feet (-0/+2")

Product (Produit • Producto)	Size (mm)
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UPN	40x20x4
UPN	50x25x5
UPN	65x42x5,5
UPN	80x45x6
UPN	100x50x6
UPN	120x55x7
UPN	140x60x7
UPN	160x65x7,5



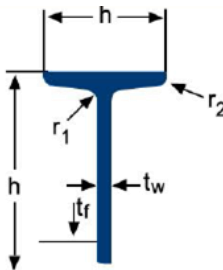
T Bars

Poutrelles • Vigas

Length •Longueur •Longitud: 6, 9, 12 metres (+/- 50 mm)
Length •Longueur •Longitud: 20, 30, 40 feet (-0/+2")

Product (Produit • Producto)	Size (mm)
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T - Profile	25x25x3,0 – 3,5
T - Profile	30x30x3,0 – 3,5
T - Profile	35x35x4
T - Profile	40x40x5



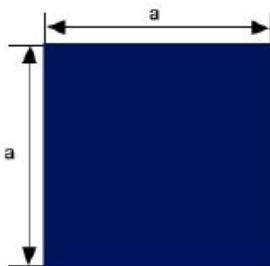
Square Bar

Fer Carré • Barra cuadrada

Length •Lounguer •Longitud: 6, 9, 12 metres (+/- 50 mm)
As per DIN 1014
Length •Lounguer •Longitud: 20, 30, 40 feet (-0/+2")

Size (mm)	(inch)	Size (mm)	(inch)
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6		16	13/16"
8	5/16"	18	7/8"
10	3/8"	19	1"
12	7/16"	20	
13	1/2"	22	
14	5/8"	24	
15	3/4"	25	



Industrial Welded Pipes

Tuyaux Soudés Industriel • Tubos soldados industriales

Dimensions and conventional masses per unit length of pipes. • Les dimensions et les masses standart en unite de longueur-tube. • Dimensiones y masas convencionales por unidad de longitud de tuberías. Quality •Qualité •Calidad : DIN 2458

Outside Diameter of pipe (mm) Series Exterieur diameter de la tube			Nominal wall thickness l'epaisseur	Conventional messas (weights) per unit longht in km/m for wall thickness in mm Les masses standart en unite de longueur tube (km/m) pour l'épasseur en mm														
1	2	3		1.4	1.6	1.8	2	2.3	2.6	2.9	3.2	3.6	4	4.5	5	5.6	6.3	
17.2			1.8	0.546	0.616	0.684	0.750	0.845	0.936									
	19		2	0.608	0.687	0.764	0.838	0.947	1.05									
	20		2	0.642	0.726	0.808	0.888	1.00	1.12									
21.3			2	0.687	0.777	0.866	0.952	1.08	1.20	1.32	1.43							
	25		2	0.815	0.923	1.03	1.13	1.29	1.44	1.58	1.72							
		25.4	2	0.829	0.939	1.05	1.15	1.31	1.46	1.61	1.75							
26.9			2	0.880	0.998	1.11	1.23	1.40	1.56	1.72	1.87							
		30	2	0.987	0.12	1.25	1.38	1.57	1.76	1.94	2.11							
	31.8		2	1.05	1.19	1.33	1.47	1.67	1.87	2.07	2.26							
33.7			2	1.12	1.27	1.42	1.56	1.78	1.99	2.20	2.41							
	38		2.3	1.26	1.44	1.61	1.78	2.07	2.27	2.51	2.75	3.05						
42.4			2.3	1.42	1.61	1.80	1.99	2.27	2.55	2.82	3.09	3.44	3.79					
48.3			2.3	1.62	1.84	2.06	2.28	2.61	2.93	3.26	3.56	3.97	4.37	4.86				
	51		2.3	1.71	1.95	2.18	2.42	2.76	3.10	3.44	3.77	4.21	4.64					
	57		2.3		2.19	2.45	2.71	3.10	3.49	3.87	3.25	4.74	5.23					
60.3			2.3		2.32	2.60	2.88	3.29	3.70	4.11	4.51	5.03	5.55	6.19	6.82			
	63.5		2.3		2.44	2.74	3.03	3.47	3.90	4.33	4.76	5.32	5.87	6.55	7.21			
	70		2.6		2.70	3.03	3.35	3.84	4.32	4.80	5.27	5.90	6.51	7.27	8.01			
		73	2.6							5.01	5.51	6.16	6.81	7.60	8.28			
76.1			2.6				4.19	4.19	4.71	5.24	5.75	6.44	7.11	7.95	8.77			
88.9			2.9		3.44	3.87	4.29	4.91	5.53	6.15	6.76	7.57	8.38	9.37	10.3	11.5		
	101.6		2.9							7.06	7.77	8.70	9.63	10.8	11.9	13.3		
114.3			3.2								8.77	9.83	10.9	12.2	13.5	15.0	16.8	
	127		3.2										12.1	13.0				



Rectangular Profiles

Fers Rectangulaire • Perfiles rectangulares

Tolerances : In size %1 Thickness •Epaisseur •Espesor : S < 2mm +- %10 S > 2mm +- %12.5

Corner Radius •Corner diametre •Radio de esquina 1.5s – 2s – 3s

DIN 59411, TSE 5317, DIN 2395

Size (mm) Dimensions	Wall thicknesses mm / Epaisseur										
	0.70 kg/m	0.80 kg/m	1 kg/m	1.5 kg/m	2 kg/m	2.5 kg/m	3 kg/m	4 kg/m	5 kg/m	6 kg/m	7.0 kg/m
10x15	0.23	0.26	0.32	0.46							
10x20	0.32	0.35	0.438	0.60							
10x25	0.42	0.47	0.58	0.87	1.12						
10x30	0.36	0.41	0.51	0.75	0.97						
15x20	0.36	0.41	0.51	0.75	0.97						
15x25	0.42	0.47	0.58	0.87	1.12						
15x30	0.47	0.53	0.67	0.98	1.28						
15x35	0.54	0.60	0.75	1.10	1.44						
20x10			0.44	0.63	0.81						
20x30	0.54	0.60	0.75	1.10	1.44						
20x35	0.59	0.67	0.82	1.22	1.59						
20x40	0.64	0.73	0.91	1.34	1.75	2.15	2.39				
25x15			0.60	0.78	1.12						
30x10			0.60	0.78	1.12						
30x20			0.75	1.10	1.44						
35x25			0.91	1.34	1.75	2.15	2.39				
35x30			0.97	1.46	1.91	2.34	2.63				
40x20			0.90	1.34	1.75	2.15	2.39				
40x25				1.46	1.91	2.34	2.63				
40x30				1.57	2.07	2.54	2.86				
50x20			1.07	1.57	2.07	2.54	2.86				
50x25			1.13	1.69	2.22	2.74	3.10				
50x30			1.21	1.81	2.38	2.93	3.33	4.25			
50x40				2.05	2.69	3.33	3.80	4.88			
60x30				2.05	2.69	3.33	3.80	4.89			
60x40					3.01	3.72	4.25	5.51			
70x30					3.01	3.72	4.37	5.78			
70x50					3.32	4.11	4.75	6.14			
80x40					3.64	4.51	5.22	6.76			
80x60					4.26	5.29	6.16	8.02	9.70		
90x30						4.50	5.37	7.03			
90x50					4.26		8.31	8.29	10.21		
100x20							5.37	5.37			
100x40					4.26	5.29	6.16	8.02	9.70		
100x50					4.58	5.68	6.63	8.65	10.99	12.3	
100x60					4.89	6.07	7.10	9.28	11.30	13.2	
100x80					5.52		8.04	10.50	12.80	15.1	
110x50							7.25	9.55			
120x40					4.89	6.07	7.10	9.28	11.30	13.2	
120x60					5.52	6.86	8.04	10.50	12.80	15.1	
120x80					6.15	7.51	9.08	11.95	14.75	17.0	
120x100					6.80	8.58	10.19	13.1	16.0	18.9	
125x70					6.15	7.64	8.99	11.8	14.4	17.0	19.4
130x50							8.20				
140x60								12.06			
140x80								12.69			
140x100					7.50	9.35	11.1	14.1	17.4	20.3	23.8
150x50					6.15	7.64	8.99	11.8	14.4	17.0	19.4
150x100									18.05		
160x80								14.1	17.4	20.3	23.8
160x90									18.05		

Note:

Any other size might be available depending on the production Schedule of the mills.

•Autres dimensions peuvent être produites selon le plan de production de l'usine

•Cualquier otro tamaño podría estar disponible según el Programa de producción de las fábricas



Decorative Hollow Section Round End

Tubes Décoratifs A Bout Round • Sección hueca decorativa extremo redondo



DIA (mm)
21 25 28 32 38 51



DIA (mm)
19 21 25 28 32 38



DIA (mm)
25 28 32 38



DIA (mm)
25 28 32 38



DIAMETER (mm)	SIZES (mm)
25	20x20
28	22x22
32	25x25
38	30x30



DIAMETER (mm)	SIZES (mm)
25	20x20
28	22x22
32	25x25
38	30x30



DIAMETER (mm)	SIZES (mm)
25	20x20
28	22x22
32	25x25
38	30x30



DIA (mm)
38 51 60

Unequal Angle

Cornière à Ailes Inégale • Ángulo desigual

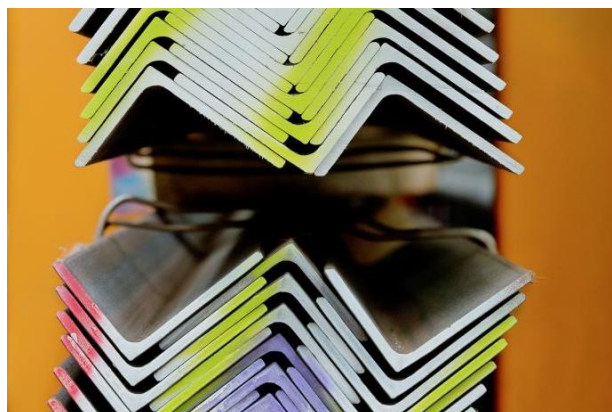
Rolling Tolerances • Laminage Tolérances • Tolerancias de rodadura as DIN 1028

Quality • Qualité • Calidad: DIN 1029. EN 10056-2

Length • Longueur • Longitud: 6 – 12 meters (+/- 50 mm)

Size (mm)

65x50x5	65x50x6	65x50x7
80x60x6	80x60x7	80x60x8
100x65x7	100x65x8	100x65x9
100x75x7	100x75x8	100x75x9



Equal Angle

Corniere A Ailes Egales • Angulos Laminados

Rolling Tolerances • Laminage Tolérances • Tolerancias de rodadura as DIN 1028

Quality • Qualité • Calidad: DIN 17100. ST 37.2

Length • Longueur • Longitud: 6, 12 meters (+/- 50 mm)

Size (mm)

20x20x2.5/3	25x25x2.5	25x25x3	25x25x4	30x30x2.5/3
30x30x4	30x30x5	30x30x6.0	35x35x3	35x35x4
35x35x5	40x40x3	40x40x4	40x40x5	40x40x6
45x45x4	45x45x5	45x45x6	50x50x3	50x50x4
50x50x5	50x50x6	55x55x6	60x60x6	60x60x6
60x60x8	65x65x5	65x65x6	65x65x7	70x70x6
70x70x7	70x70x9	75x75x7	75x75x8	80x80x6
80x80x7	80x80x8	80x80x10	90x90x7	90x90x8
90x90x9	100x100x7	100x100x8	100x100x9	100x100x10
100x100x12	110x110x10	120x120x10	130x130x10	130x130x12

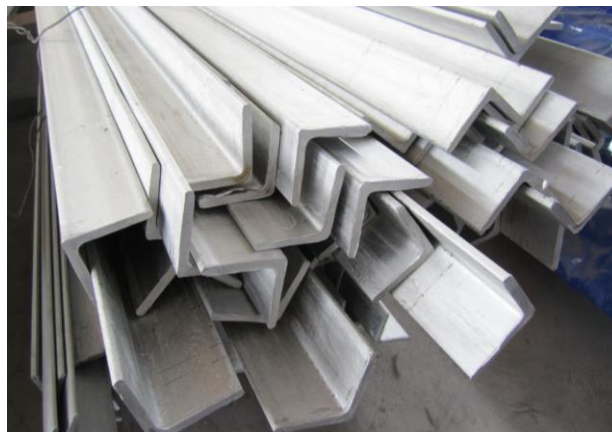
Rolling Tolerances as per ASTM A 36 – A6

Laminage Tolérances • Tolerancias de rodadura

Length • Longueur • Longitud: 20, 30, 40 Feet Pied (-0+2")

Size (inch / Pouce)

3/4x3/4x1/8"	1x1x1/8"	1x1x3/16"
1x1x1/4"	1-1/4x1-1/4x1/8"	1-1/4x1-1/4x3/16"
1-1/4x1/4x1/4"	1-1/2x1-1/2x1/8"	1-1/2x1-1/2x3/16"
1-1/2x1-1/2x1/4"	1-3/4x1-3/4x1/8"	1-3/4x1-3/4x3/16"
1-3/4x1-3/4x1/4"	2x2x1/8"	2x2x3/16"
2x2x1/4"	3x3x3/8"	2-1/2x1-1/2x1/4"
2-1/2x2-1/2x5/16"	2-1/2x2-1/2x3/8"	3x3x3/16"
3x3x1/4"	2-1/2x2-1/2x3/16"	3x3x5/16"
3x3x3/8"	3-1/2x3-1/2x1/4"	3-1/2x3-1/2x5/16"
3-1/2x3-1/2x3/8"	4x4x1/4"	4x4x5/16"
4x4x3/8"	4x4x1/2"	



Cold Rolled Steel Coils Bobines

Laminées A Froid • Bobinas de acero laminado en frío bobinas

Thickness (Epaisseur/Espesor): Between(entre) 0,65-1,50 mm At desired dimensions steel sheets, steel strips and steel coils Differentes dimensions de tôles et de bobines sur demande • En dimensiones deseadas, láminas de acero, tiras de acero y bobinas de acero

Cold Rolled Steel Sheets Toles

Laminées A Froid • Hojas de acero laminado en frío Toles

Thickness (Epaisseur/Espesor): Between(entre) 0,65-1,50 mm At desired dimensions steel sheets, steel strips and steel coils Differentes dimensions de tôles et de bobines sur demande.

Hot Rolled Coils And Sheets

Toles Et Bobines Laminees A Chaud • Bobinas y láminas laminadas en caliente

Hot Rolled Coils • Bobines Laminées à chaud • Bobinas laminadas en caliente

Thickness (Epaisseur/Espesor): Between(entre) 1,50-10 mm

Hot Rolled Sheets • Toles laminées à chaud • Hojas laminadas en caliente

Thickness (Epaisseur/Espesor): Between(entre) 1,50-40 mm

Width • Largeur • Anchura: 1000-1500 mm

Length • Longueur • Longitud: 1000-6000 mm

With bundles of 3-10 Tons Avec des paquets de 3-10

Tonnes • Con paquetes de 3-10 toneladas.

Chequered Plates (Diamond and Tear Drop)

Tôles Pigurées Striées et larmées • Placas a cuadros

Permissible deviations in thickness & permissible variations on thickness of the same plate les.

Deviations depaisseur et les variations depaisseur de la meeme tole sont possible • Son posibles desviaciones en el espesor y variaciones de espesor de la misma hoja.

Thickness (Epaisseur/Espesor): Between(entre) 1,60-10 mm

Width • Largeur • Anchura: Max 1300 mm

Length • Longueur • Longitud: 1200 mm



Standart Types Of Wire Mesh

Treillis Soudés • Tipos estándar de malla de alambre

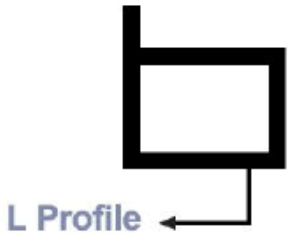
MESH TYPES	MESHERS						MESS WEIGHT Poids de Tre is Soudes (Kg/m)
	PITCH (mm)		DIAMETER (mm)		CROSS-SEC (cm/mT)		
	Line	Cross	Line	Cross	Line	Cross	
R106	150	250	4.5	4.5	1.06	0.64	1.33
R131	150	250	5.0	5.0	1.31	0.78	1.65
R158	150	250	5.5	5.0	1.58	0.78	1.86
R188	150	250	6.0	5.0	1.88	0.78	2.10
R221	150	250	6.5	5.0	2.21	0.78	2.36
R257	150	250	7.0	5.0	2.57	0.78	2.63
R295	150	250	7.5	5.0	2.95	0.78	2.93
R317	150	250	5.5 d	5.0	3.17	0.78	2.88
R355	150	250	8.0	5.0	3.65	0.78	3.25
R377	150	250	6.0	5.0	2.37	0.78	3.30
R443	150	250	6.5 d	5.5	4.43	0.95	3.89
R513	150	250	7.0 d	6.0	5.13	1.11	4.54
R589	150	250	7.5 d	6.5	5.89	1.33	5.24
				4.5			
Q106/106	150	150	4.5	5.0	1.06	1.06	1.70
Q131/131	150	150	5.0	5.0	1.31	1.31	2.06
Q158/131	150	150	5.5	5.5	1.58	1.31	2.27
Q158/158	150	150	5.5	5.0	1.58	1.58	2.48
Q188/131	150	150	6.0	5.5	1.88	1.31	2.31
Q188/158	150	150	6.0	6.0	1.88	1.58	2.72
Q188/188	150	150	6.0	5.0	1.88	1.88	2.96
Q221/131	150	150	6.5	5.5	2.21	1.31	2.77
Q221/150	150	150	6.5	0.0	2.21	1.50	3.30
Q221/188	150	150	6.5	6.5	2.21	1.88	3.22
Q221/221	150	150	6.5	5.0	2.21	2.21	3.48
Q257/131	150	150	7.0	5.5	2.57	1.31	3.04
Q257/158	150	150	7.0	6.0	2.57	1.58	3.25
Q257/188	150	150	7.0	6.5	2.57	1.88	3.49
Q257/221	150	150	7.0	7.0	2.57	2.21	3.75
Q257/257	150	150	7.0	5.0	2.57	2.57	4.02
Q295/131	150	150	7.5	5.5	2.95	1.31	3.34
Q295/158	150	150	7.5	6.0	2.95	1.58	3.55
Q295/188	150	150	7.5	6.5	2.95	1.88	3.79
Q295/221	150	150	7.5	7.0	2.95	2.21	4.05
Q257/257	150	150	7.5	7.5	2.95	2.57	4.32
Q295/295	150	150	5.5 d	5.0	2.95	2.95	4.63
Q317/131	150	150	5.5 d	5.5	3.17	1.31	2.93
Q317/158	150	150	5.5 d	6.0	3.17	1.58	3.15
Q317/188	150	150	5.5 d	6.5	3.17	1.88	3.38
Q317/221	150	150	5.5 d	7.0	3.17	2.21	3.63
Q317/257	150	150	5.5 d	7.5	3.17	2.57	3.91
Q317/295	150	150	6.5 d	5.0	3.17	2.95	4.20
Q377/131	150	150	6.5 d	5.5	3.77	1.31	3.29
Q377/158	150	150	6.5 d	6.0	3.77	1.58	3.51
Q377/188	150	150	6.5 d	6.5	3.77	1.88	3.74
Q377/221	150	150	6.5 d	7.0	3.77	2.21	3.99
Q377/257	150	150	6.5 d	7.5	3.77	2.57	4.26
Q377/295	150	150	6.5 d	5.5	3.77	2.95	4.56
Q443/158	150	150	6.5 d	6.0	4.43	1.58	3.89
Q443/188	150	150	6.5 d	6.5	4.43	1.88	4.13
Q443/221	150	150	6.5 d	7.0	4.43	2.21	4.38
Q443/257	150	150	6.5 d	7.5	4.43	2.57	4.65
Q443/295	150	150	7.0 d	6.0	4.43	2.95	4.95
Q513/188	150	150	7.0 d	6.5	5.13	1.88	4.56
Q513/221	150	150	7.0 d	7.0	5.13	2.21	4.81
Q513/257	150	150	7.0 d	7.5	5.13	2.57	4.08
Q513/295	150	150	7.5 d		5.13	2.95	5.38



L Profiles

Profils Tubulaires • Perfiles de L

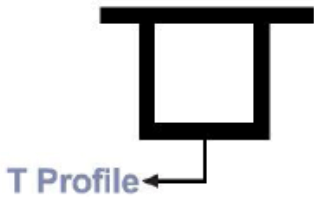
Désignation	Thickness / Epaisseur (mm)	Weight / Poids (Kg/mètre)
28x28 L	1,00	0,915
28x28 L	1,10	1,007
28x28 L	1,15	1,052
28x28 L	1,20	1,087
38X38 L	1,10	1,294
38X38 L	1,15	1,353
38X38 L	1,20	1,398
38X38 L	1,25	1,456
38X38 L	1,50	1,747



T Profiles

Profils Tubulaires • Perfiles en T

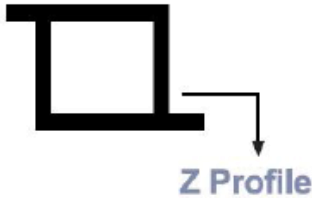
Désignation	Thickness / Epaisseur (mm)	Weight / Poids (Kg/mètre)
28x28 T	1,00	1,061
28x28 T	1,10	1,167
28x28 T	1,15	1,22
28x28 T	1,20	1,26
38X38 T	1,10	1,54
38X38 T	1,15	1,61
38X38 T	1,20	1,663
38X38 T	1,25	1,732
38X38 T	1,50	2,078



Z Profiles

Profils Tubulaires • Perfiles z

Désignation	Thickness / Epaisseur (mm)	Weight / Poids (Kg/mètre)
28x28 Z	1,00	1,061
28x28 Z	1,10	1,167
28x28 Z	1,15	1,22
28x28 Z	1,20	1,26
38X38 Z	1,10	1,54
38X38 Z	1,15	1,61
38X38 Z	1,20	1,663
38X38 Z	1,25	1,732
38X38 Z	1,50	2,078



API 5L Plain Line Pipes • Pipes Plain Line • Tubos de línea simple



NOMINAL SIZE INC	Outside diameter		Wall thickness		Sch. No	Weight			Standart test pressure min.						inside diameter		Tons Pemile
	inc.	mm	inc.	mm		lb/ft	kg/ft	kg/m	Grade A 25		Grade A		Grade B				
									Psi	kg/cm	Psi	kg/cm	Psi	kg/cm	inc.	mm	
1/2	0.840	21.3	0.109	2.8	40	0.85	0.39	1.28	700	48	700	48	700	48	0.622	15.7	2.0
3/4	0.050	26.7	0.113	2.9	40	1.13	0.51	1.70	700	48	700	48	700	48	0.824	20.9	2.7
1	1.135	33.4	0.133	3.4	40	1.68	0.76	2.52	700	48	700	48	700	48	1.049	26.6	4.0
1 1/4	1.660	42.2	0.140	3.6	40	2.17	1.03	3.43	1000	69	1200	83	1300	90	1.380	35.0	5.4
1 1/2	1.900	48.3	0.145	3.7	40	2.72	1.23	4.07	1000	69	1200	83	1300	90	1.610	40.9	6.5
2	2 3/8	60.3	0.125	3.2	40	3.00	1.36	4.51	1000	69	-	-	-	-	2.125	53.9	7.2
			0.141	3.6		3.36	1.52	5.03	1000	69	-	-	-	-	2.093	53.1	8.1
			0.154	3.9		3.65	1.66	5.42	1000	69	2330	161	2500	172	2.067	52.5	8.7
			0.172	4.4		4.05	1.84	6.07	1000	69	2500	172	2500	172	2.031	51.5	9.7
2 1/2	2 7/8	73.0	0.125	3.2	40	3.67	1.66	5.51	1000	76	-	-	-	-	2.625	66.6	8.8
			0.141	3.6		4.12	1.87	6.16	1000	69	-	-	-	-	2.593	65.8	9.9
			0.156	4.0		4.53	2.05	6.81	1000	69	1950	136	2280	158	2.563	65.0	10.9
			0.172	4.4		4.97	2.25	7.44	1000	69	2150	150	2500	176	2.531	64.2	11.9
			0.188	4.8		5.40	2.45	8.07	1000	69	2350	163	2500	172	2.489	63.4	12.9
			0.203	5.2		5.79	2.63	8.69	1000	69	2500	172	2500	172	2.469	62.6	13.9
3	3 1/2	88.9	0.125	3.2	40	4.51	2.05	6.76	1000	69	1290	89	1500	104	3.250	82.5	10.8
			0.141	3.6		5.06	2.30	7.57	1000	69	-	-	-	-	3.218	81.7	12.1
			0.156	4.0		5.57	2.53	8.37	1000	69	1600	112	1870	130	3.188	80.9	13.4
			0.172	4.4		6.11	2.77	9.17	1000	69	1770	123	2060	143	3.156	80.1	14.6
			0.188	4.8		6.65	3.02	9.95	1000	69	1930	134	2260	156	3.124	79.3	15.9
3 1/2	4	101.6	0.216	5.5	40	7.58	3.44	11	1000	69	2220	154	2500	172	3.068	77.9	18.2
			0.125	3.2		5.17	2.35	7.76	-	-	1120	78	1310	91	3.750	95.2	12.4
			0.141	3.6		5.81	2.64	8.70	800	55	1270	88	1480	102	3.718	94.4	13.9
			0.156	4.0		6.40	2.90	9.63	-	-	1400	98	1640	114	3.688	93.65	15.3
			0.172	4.4		7.03	3.19	10.55	1000	69	1550	108	1810	125	3.656	92.8	16.9
			0.188	4.8		7.65	3.47	11.46	1200	83	1690	117	1970	137	3.624	92.0	18.3
			0.226	5.7		9.11	4.13	13.48	1200	83	2030	139	2370	162	3.548	90.2	21.8
			0.125	3.2		5.84	2.65	8.77	800	55	1000	70	1170	81	4.250	107.91	14.0
			0.141	3.6		6.56	2.98	9.83	-	-	1130	78	1320	91	4.218	107.1	15.7
			0.156	4.0		7.24	3.28	10.88	1000	69	1250	87	1460	101	4.188	106.3	17.4
4	4 1/2	114.3	0.172	4.4	40	7.95	3.61	11.92	-	-	1380	96	1610	111	4.156	105.5	19.1
			0.188	4.8		8.66	3.93	12.96	1200	83	1500	104	1750	121	4.124	104.7	20.8
			0.203	5.2		9.32	4.23	13.99	-	-	1620	113	1890	132	4.094	103.9	22.3
			0.219	5.6		10.01	4.54	15.01	1200	83	1750	112	2040	142	4.062	103.2	24.0
			0.237	6.0		10.79	4.89	16.02	1200	83	1900	130	2210	152	4.026	102.3	25.9
			0.188	4.8		10.79	4.89	16.16	-	71	1220	84	1420	98	4.187	131.7	25.9
			0.219	5.6		12.50	5.67	18.74	-	81	1420	98	1650	115	5.125	130.1	30.0
5	5 9/16	141.3	0.258	6.6	40	14.62	6.43	21.92	-	83	1670	116	1950	135	6.047	128.1	35.0
			0.172	4.4		11.85	5.38	17.78	-	-	930	64	1090	75	6.281	159.5	28.4
			0.188	4.8		12.92	5.86	19.35	-	-	1020	70	1190	82	6.249	158.7	31.0
			0.203	5.2		13.92	6.31	20.91	-	-	1100	76	1290	89	6.219	157.9	33.4
			0.219	5.6		14.98	6.79	22.47	-	-	1190	82	1390	96	6.187	157.1	35.9
			0.250	6.4		17.02	7.72	25.55	-	-	1360	94	1580	109	6.125	155.5	40.8
			0.280	7.1		18.97	8.60	28.22	-	-	1520	105	1780	123	6.065	154.1	45.5
8	8 5/8	219.1	0.219	5.69	-	19.66	8.92	29.48	-	-	910	68	1070	74	8.187	207.9	47.1
			0.250	6.4	20	22.36	10.14	33.57	-	-	1040	72	1220	84	8.125	206.3	53.6
			0.277	7.0	30	24.70	11.20	36.61	-	-	1160	80	1350	93	8.071	205.1	59.2
			0.312	7.9	-	27.70	12.56	41.14	-	-	1300	90	1520	105	8.001	203.3	66.4
			0.322	8.2	40	28.55	12.95	42.65	-	-	1340	92	1570	108	7.981	202.7	68.4
10	10 3/4	273.1	0.219	5.6	-	24.63	11.17	36.94	-	-	730	50	860	59	10.312	261.9	59.0
			0.250	6.4	20	28.04	12.72	42.09	-	-	840	58	980	68	10.250	260.3	67.2
			0.279	7.1	-	31.20	14.15	46.57	-	-	930	64	1090	75	10.192	258.9	74.8
			0.307	7.8	30	34.24	15.53	51.03	-	-	1030	71	1200	83	10.136	257.5	82.1
			0.344	8.7	-	38.23	17.34	56.72	-	-	1150	79	1340	92	10.062	255.7	91.6
12	12 3/4	323.9	0.250	6.4	20	33.38	15.15	50.11	-	-	710	49	820	56	12.250	311.1	80.0
			0.281	7.1	-	37.42	16.97	55.47	-	-	790	54	930	64	12.188	309.7	89.7
			0.312	7.9	-	41.45	18.80	61.56	-	-	880	61	1030	71	12.126	308.1	99.4
			0.330	8.4	30	43.77	19.85	65.35	-	-	930	65	1090	75	12.090	307.1	104.9
			0.344	8.7	-	45.58	20.67	67.62	-	-	970	67	1130	78	12.062	306.5	109.3
			0.375	9.5	-	49.56	22.48	73.65	-	-	1060	73	1240	85	12.000	304.9	118.8

Water And Gas Pipes • Tubes De Gas Et De L'eau • Tuberías De Agua Y Gas

Medium Series Quality •Qualité •Calidad: DIN 2440

SIZE		DIN 2440						DIN 2441				
OD		WT mm	WEIGHT				WT mm	WEIGHT				
(nom) inch	mm		BPE kg/m	BTC kg/m	GPE kg/m	GTC kg/m		BPE kg/m	BTC kg/m	GPE kg/m	GTC kg/m	
3/8	17.2	2.35	0.852	0.86	0.890	0.897	2.90	1.02	1.03	1.07	1.08	
1/2	21.3	2.65	1.32	1.23	1.29	1.30	3.25	1.45	1.46	1.52	1.53	
3/4	26.6	2.65	1.58	1.59	1.67	1.68	3.25	1.90	1.91	1.99	2.00	
1	33.7	3.25	2.44	2.46	2.55	2.57	4.05	2.97	2.99	3.08	3.10	
1 1/4	42.4	3.25	3.14	3.17	3.29	3.32	4.05	3.84	3.87	3.98	4.01	
1 1/2	48.3	3.25	3.61	3.65	3.78	3.82	4.05	4.43	4.47	4.60	4.54	
2	60.3	3.65	5.10	5.17	5.31	5.38	4.05	6.17	6.24	6.38	6.45	
2 1/2	76.1	3.65	6.51	6.63	6.78	6.90	4.50	7.90	8.02	8.17	8.29	
3	88.9	4.05	8.47	8.64	8.79	8.96	4.50	10.10	10.30	10.42	10.62	
4	114.3	4.50	12.10	12.40	12.51	12.81	5.40	14.40	14.70	14.81	15.11	
5	139.7	4.85	16.20	16.70	16.71	17.21	5.40	17.80	18.30	18.31	18.41	
6	165.1	4.85	19.20	19.80	19.80	20.40	5.40	21.20	21.80	21.80	22.40	

B S 1387

SIZE		MEDIUM						MEDIUM				
OD		WT mm	WEIGHT				WT mm	WEIGHT				
(nom) inch	mm		BPE kg/m	BTC kg/m	GPE kg/m	GTC kg/m		BPE kg/m	BTC kg/m	GPE kg/m	GTC kg/m	
1/2	21.3	2.6	1.21	1.22	1.28	1.29	3.2	1.44	1.45	1.51	1.52	
3/4	26.6	2.6	1.56	1.57	1.65	1.66	3.2	1.87	1.88	1.96	1.97	
1	33.7	3.2	2.41	2.43	2.53	2.65	4.0	2.94	2.96	3.05	3.07	
1 1/4	42.4	3.2	3.10	3.13	3.25	3.28	4.0	3.80	3.83	3.94	3.97	
1 1/2	48.3	3.2	3.57	3.61	3.74	3.78	4.0	4.38	4.42	4.55	4.59	
2	60.3	3.6	5.03	5.10	5.24	5.31	4.5	6.19	6.26	6.40	6.47	
2 1/2	76.1	3.6	6.43	6.55	6.70	6.82	4.5	7.93	8.05	8.20	8.32	
3	88.9	4.0	8.37	8.54	8.69	8.86	5.0	10.30	10.50	10.62	10.82	
4	114.3	4.5	12.20	12.50	12.61	12.91	5.4	14.50	14.80	14.91	15.21	
5	139.7	5.0	16.60	17.10	17.11	17.61	5.4	17.90	18.40	18.41	18.91	
6	165.1	5.0	19.70	20.30	20.30	20.90	5.4	21.30	21.90	21.90	22.50	

ISO 65

SIZE		MEDIUM						MEDIUM				
DN	OD		WT mm	WEIGHT				WT mm	WEIGHT			
	(nom) inch	mm		BPE kg/m	GTC kg/m	BTC kg/m	GPE kg/m		BPE kg/m	GTC kg/m	BTC kg/m	GPE kg/m
15	1/2	21.3	2.6	1.21	1.22	1.28	1.29	3.2	1.44	1.45	1.51	1.52
20	3/4	26.9	2.6	1.56	1.57	1.65	1.66	3.2	1.87	1.88	1.96	1.97
25	1	33.7	3.2	2.41	2.43	2.53	2.55	4.0	2.93	2.95	3.05	3.07
32	1 1/4	42.4	3.2	3.10	3.13	3.25	3.28	4.0	3.79	3.82	3.94	3.97
40	1 1/2	48.3	3.2	3.56	3.60	3.73	3.77	4.0	4.37	4.41	4.54	4.58
50	2	60.3	3.6	5.03	5.10	5.24	5.31	4.5	6.19	6.26	6.40	6.47
65	2 1/2	76.1	3.6	6.42	6.54	6.70	6.81	4.5	7.93	8.05	8.20	8.32
80	3	88.9	4.0	8.36	8.53	8.69	8.85	5.0	10.03	10.50	10.62	10.82
100	4	114.3	4.5	12.20	12.50	12.61	12.91	5.4	14.5	14.80	14.91	15.21
125	5	139.7	5.0	16.60	17.10	17.11	17.61	5.4	17.9	18.40	18.40	18.91
150	6	165.2	5.0	19.80	20.40	20.40	21.00	5.4	21.3	21.90	21.90	22.50

ISO 85

SIZE		MEDIUM						MEDIUM				
DN	OD		WT mm	WEIGHT				WT mm	WEIGHT			
	nom (inch)	mm		BPE kg/m	GTC kg/m	BTC kg/m	GPE kg/m		BPE kg/m	GTC kg/m	BTC kg/m	GPE kg/m
15	1/2	21.3	2.3	1.08	1.09	1.15	1.16	2.0	0.95	0.96	1.02	1.03
20	3/4	26.9	2.3	1.39	1.4	1.48	1.49	2.3	1.38	1.39	1.47	1.48
25	1	33.7	2.9	2.2	2.22	2.32	2.34	2.6	1.98	2.0	2.1	2.12
32	1 1/4	42.4	2.9	2.82	2.85	2.97	3.0	2.6	2.54	2.57	2.69	2.72
40	1 1/2	48.3	2.9	3.24	3.28	3.41	3.45	2.9	3.23	3.27	3.4	3.44
50	2	60.3	3.2	4.49	4.56	4.71	4.78	2.9	4.08	4.15	4.3	4.37
65	2 1/2	76.1	3.2	5.73	5.85	6.0	6.12	3.2	5.71	5.83	5.98	6.1
80	3	88.9	3.6	7.55	7.72	7.87	8.04	3.2	6.72	6.89	7.04	7.21
100	4	114.3	4.0	10.08	11.1	11.22	11.52	3.6	9.75	10.0	10.17	10.42



GPE:
Galvanised Plain
•Galvanisé à bout plat
•Plaine galvanisée

GTC:
Galvanised Threaded and Coupled
•Galvanisé pileté et couplé
•Galvanisé Fileté et Couplé

BPE:
Black Plain
•Noire à bout plat
•Plaine Noire

BTC:
Black Threaded and Coupled
•Noire avec manchon et cliquet
•Noir Fileté et Couplé

OD:
Outsided diameter
•diamètre extérieure
•Diamètre extérieur

WT:
Wall thickness
•Épaisseur
•épaisseur de la paroi