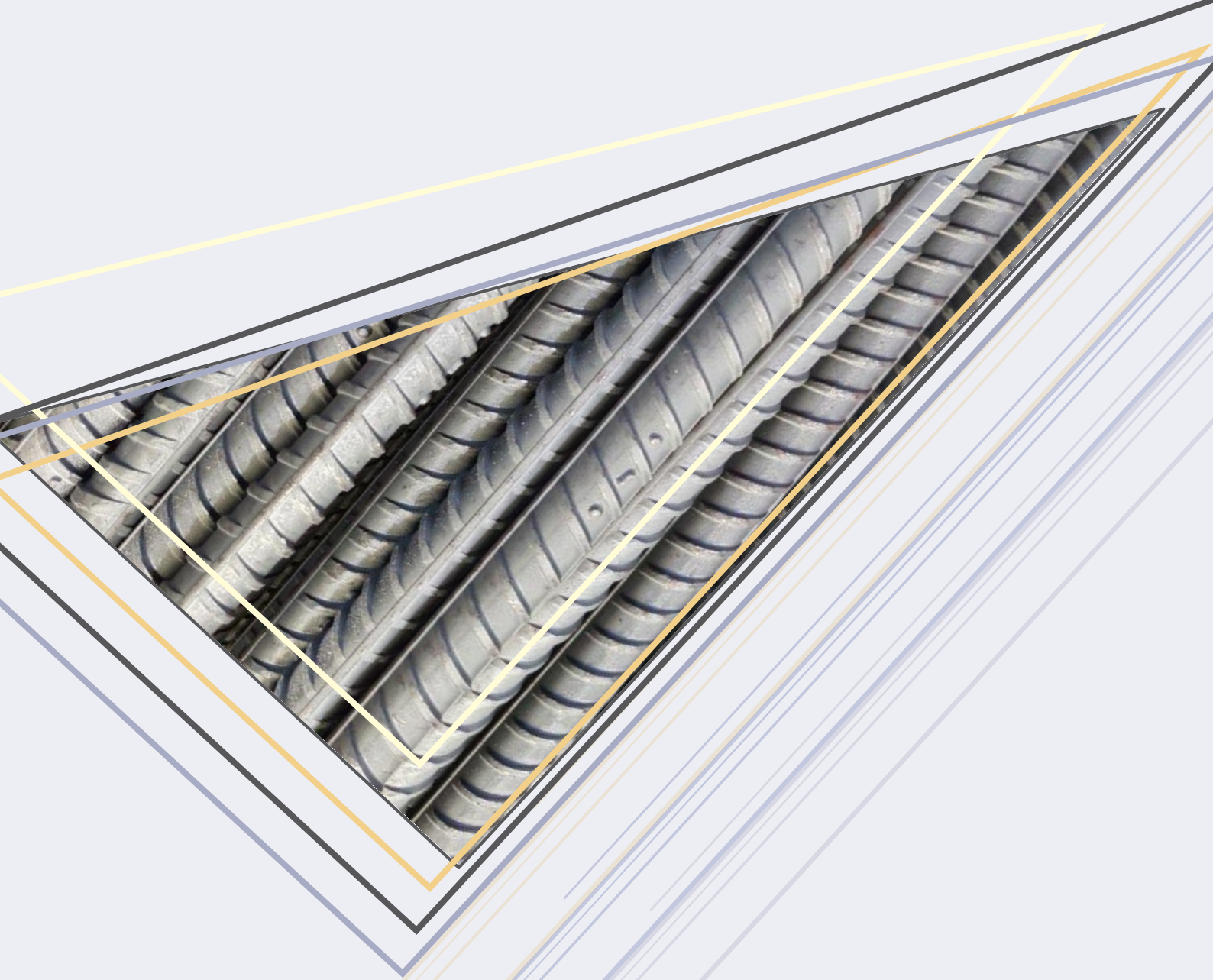


# MURAT METAL



## PRODUCT CATALOGUE



### **Murat Metal Ticaret ve Sanayi A.Ş.**

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## Flat Bar

Rolling Tolerances as DIN 1017  
Length: 6 m (+ / - 50mm)

### Size (mm)

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



Rolling Tolerances as per ASTM A36  
Length: 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"	12x3/16"	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"	21x2/2"	3x1/2"		

## Round Bar

Rolling Tolerances as DIN 1017  
Length: 6 m (+ / - 50mm)

### Size (mm) – (inch)

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

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	1 1/4	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	1 1/2	48.3	2.9	3.25	3.29	3.42	3.46	3.2	3.56	3.60	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	4.10	5.24	5.31	4.5	6.19	6.26	6.40	6.47
65	2 1/2	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	10.00	10.20	10.32	10.52
100	4	114.3	3.6	9.83	10.10	10.25	10.52	4.5	12.20	12.50	12.61	12.91	5.4	14.50	14.80	14.91	15.21
125	5	139.7	4.5	15.00	15.50	15.63	16.15	4.5	15.00	15.50	15.63	16.15	5.4	17.90	18.40	18.41	18.91
150	6	165.2	4.5	17.80	18.40	18.55	19.17	4.5	17.80	18.40	18.55	19.17	5.4	21.30	21.90	21.90	22.50

ASTM A 53

NPS	SIZE		WT nom(inc)	mm	OD		MEDIUM		SCHEDULE NO.
	ODS nom(inc)	mm			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 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	3.39	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
5	5.563	141.3	0.134	3.40	7.77	11.58	...	...	10
			0.156	3.96	9.01	13.41	...	...	...
			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	...	...	...
6	6.625	168.3	0.134	3.40	9.29	13.84	...	...	...
			0.188	4.78	12.92	19.27	...	...	...
			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	...	...	...
8	8.625	219.1	0.188	4.78	16.94	25.26	...	...	...
			1.203	5.16	18.26	27.22	...	...	...
			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	...	...	...
10	10.750	273.0	0.322	8.18	28.55	42.55	...	...	...
			0.188	4.78	21.21	31.62	...	...	...
			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	...	...	...
12	12.750	323.8	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	...	...	...
			0.219	5.56	29.31	43.63	...	...	...
			0.250	6.35	33.38	49.71	...	...	...
12	12.750	323.8	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

**GTC:**  
Galvanised Threaded and Coupled

**BPE:**  
Black Plain

**BTC:**  
Black Threaded and Coupled

**OD:**  
Outside Diameter

**WT:**  
Wall Thickness



## Nails

### 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: AISI – 1008

Head Type: Flat / Plat – Cone

Packing: 5 – 25 kg cardboard boxes, 500-100 kg stretched

Cardboard boxes on Europalette

## Nail Coils

### Cross Section From Our Program

Smooth	Ring	Screw
2.10 mm x 32 mm - 50 mm 400 pcs	2.10 mm x 32 mm - 50 mm 400 pcs	2.10 mm x 32 mm - 50 mm 400 pcs
2.50 mm x 45 mm - 70 mm 300 pcs	2.50 mm x 45 mm - 70 mm 300 pcs	2.50 mm x 45 mm - 70 mm 300 pcs
2.85 mm x 50 mm - 80 mm 250 pcs	2.85 mm x 50 mm - 80 mm 250 pcs	2.85 mm x 50 mm - 80 mm 250 pcs
3.05 mm x 50 mm - 75 mm 200 pcs	3.05 mm x 50 mm - 75 mm 200 pcs	3.05 mm x 50 mm - 75 mm 200 pcs
3.30 mm x 60 mm - 100 mm 165 pcs	3.30 mm x 60 mm - 100 mm 165 pcs	3.30 mm x 60 mm - 100 mm 165 pcs

Raw Material Quality: AISI – 1008

Head Type: Flat / Plat – Cone

Packing: 5 – 25 kg cardboard boxes, 500-100 kg stretched

Cardboard boxes on Europalette



## Steel Billet

Quality: DIN 17100, TS 708, ASTM A615, JISO 3112 (1985) NFA 35 – 16 (1986) Equivalent Standards 20 MnSi.

All Desired Chemical Composition can be met.

Length: 3,5 – 15 Meters

### Size (mm)

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



## Reinforcing Bars

Length: 6 Meters up to 16 Meters

Size/Dimension: Once folded bundles available 6mm.

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





## Square Profiles

Dimensions and conventional masses per unit length of pipes.

Quality: DIN 59411, DIN EN 2395

Size (mm) Dimensions	Wall thickness (mm)											
	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 kg/m
10x10	0.20	0.22	0.26	0.28	0.40							
12x12	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	1.02	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
110x100									12.69	16.33	18.69	
120x120									14.82	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.





## Steel Wires

STEEL WIRES			
Material	Diameter (mm)	Packing	Packing
Low Carbon Galvanized Wire	1.80 – 5.00	>>in coils of 80-1.000 kg >>Rozetta 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 50 kg	
Low Coated Galvanized Wire	2.50 – 4.00	>>in coils of 30-50 kg	>>PVC Coated Hot Dip Galvanized wire or Black Annealed Wire >>Extrusion PVC Coating of 1mm >>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 1mm >>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 1mm
IOWA Type Barbed Wire		>>in coils of 15-40 kg	>>PVC Coated Hot Dip Galvanized wire or Black Annealed Wire >>Extrusion PVC Coating of 1mm >>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 1mm

## Wire Rod

Quality: DIN 17100, EN 10025 ST 37,2  
 Coll weight: Abt / Approx 1 Ton SAE 1010,  
 SAE 1012, SAE 1015, SAE 1018, SAE 1020  
 Or Equivalent Standards BS 449 GR 250

## Size

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

Quality: ASTM A Grade 60  
 Size (mm) Dimension: 6 – 8 – 10 – 12 – 14  
 Coil Weight: ABT / Approx 1 Mton



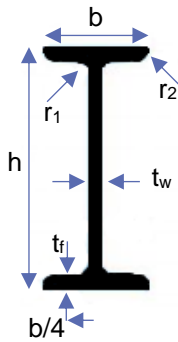


## Ip̄n Bars

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

### Product Size(mm)

IPN	80x42x3,9
IPN	100x50x4,5
IPN	120x58x5,1
IPN	140x66x5,7
IPN	160x74x6,3

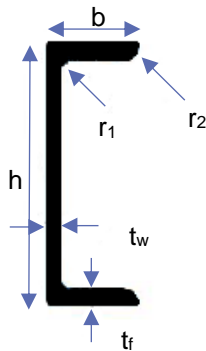


## Up̄n Bars

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

### Product Size(mm)

UPN	40x20x4,0
UPN	50x25x5,0
UPN	65x42x5,5
UPN	80x45x6,0
UPN	100x50x6,0
UPN	120x55x7,0
UPN	140x55x7,0
UPN	160x65x7,5

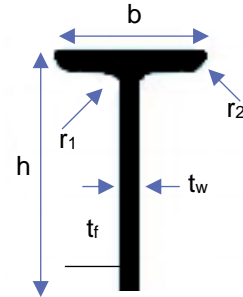


## T Bars

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

### Product Size(mm)

T – Profile	25x25x3,0 – 3,5
T – Profile	30x30x3,0 – 3,5
T – Profile	35x35x4,0
T – Profile	40x40x5,0

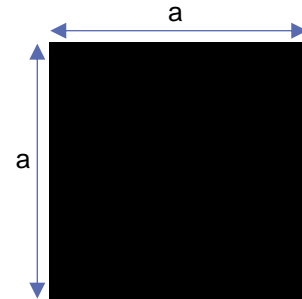


## Square Bars

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

### Size(mm) inch Size(mm) inch

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	





## Rectangular Profiles

Tolerance: In size %1 Thickness: S < 2mm +- %10 S >2mm +- %12.5

Corner Radius: 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	1.00 kg/m	1.50 kg/m	2.00 kg/m	2.50 kg/m	3.00 kg/m	4.00 kg/m	5.00 kg/m	6.00 kg/m	7.00 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						4.05	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 mills.



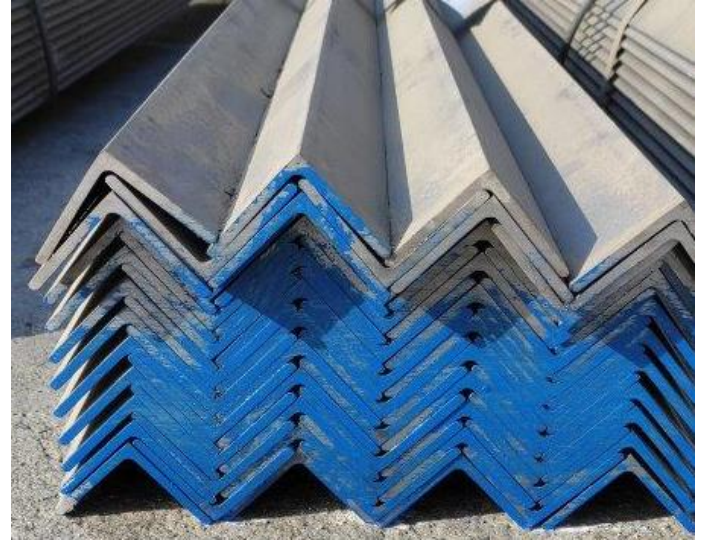


## Unequal Angle

Rolling Tolerances as DIN 1028  
 Quality: DIN 1029. EN 10056-2  
 Length: 6 – 12 meters (+/- 50 mm)

### Size (mm)

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



## Equal Angle

Rolling Tolerances as DIN 1028  
 Quality: DIN 17100. ST 37.2

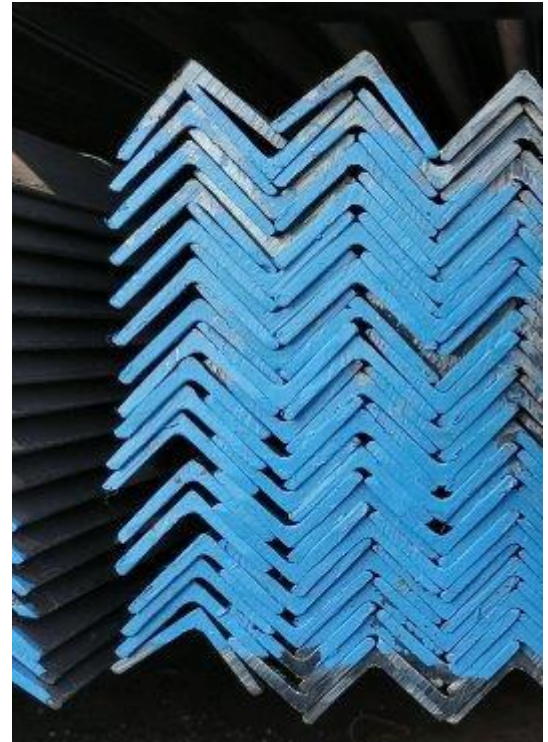
Length: 6 – 12 meters (+/- 50 mm)

20x20x2.5/3	25x25x2.5	25x25x3	25x25x4	30x30x2.5/3
30x30x4	30x30x5	30x30x6	35x35x3	35x35x4
35x35x5	40x40x3	40x40x4	40x40x5	40x40x6
45x45x4	45x45x5	45x45x6	50x50x3	50x50x4
50x50x5	50x50x6	55x55x6	60x60x6	60x60x6
60x60x8	65x65x6	65x65x6	65x65x6	70x70x6
70x70x7	70x70x9	75x75x5	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  
 Length: 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"
1-1/4x1-1/4x1/4"	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 Soils Bobines

Thickness: Between (entre) 0,65-1,50 mm at desired

dimensions steel sheets, steel strips and steel coils.



## Cold Rolled Steel Sheets Toles

Thickness: Between (entre) 0,65-1,50 mm at desired

dimensions steel sheets, steel strips and steel coils

## Hot Rolled Coils And Sheets

Hot Rolled Coils

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

Hot Rolled Sheets

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

Width: 1000 – 1500 mm

Length: 1000 – 6000 mm

With bundles of 3-10 Tons



## Chequered Plates

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

Thickness: Between(entre) 1,60 – 10 mm

Width: Max 1300 mm

Length: 1200 mm



## Standard Types of Wire Mesh

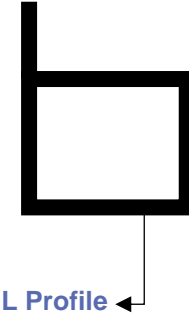
MESH TYPES	MESHERS						MESS WEIGHT Poids de treis Soudes (kg/m)
	PITCH (mm)		DIAMETER (mm)		CROSS-SEC (cm/mT)		
	Line	Cross	Line	Cross	Line	Cross	
R106	150	250	4.5	4.5	1.06	0.64	1.33
R131	150	250	5.0	5.0	1.31	0.78	1.65
R158	150	250	5.5	5.0	1.58	0.78	1.86
R188	150	250	6.0	5.0	1.88	0.78	2.10
R221	150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





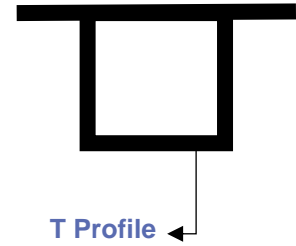
## L Profiles

Designation	Thickness / Epaisseur (mm)	Weight / Poids (kg/m)
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



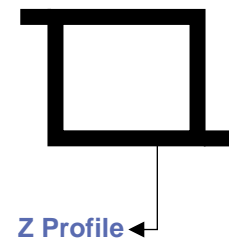
## T Profiles

Designation	Thickness / Epaisseur (mm)	Weight / Poids (kg/m)
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

Designation	Thickness / Epaisseur (mm)	Weight / Poids (kg/m)
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

Nominal Size INC	Outside diameter		Wall thickness		Sch. No	Weight			Standart test pressure min.						Inside diameter		Tons Pemile
									Grade A 25		Grade A		Grade B				
	Inc.	mm	inc	mm		lb/ft	kg/ft	kg/m	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
			0.216	5.5		7.58	3.44	11.0	1000	69	2220	154	2500	172	3.068	77.9	18.2
3 1/2	4	101.6	0.125	3.2	40	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
4	4 1/2	114.3	0.125	3.2	40	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
			0.172	4.4		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
5	5 9/16	141.3	0.188	4.8	40	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
			0.258	6.6		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
6	6 5/8	168.3	0.188	4.8	40	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
			0.219	5.69		19.66	8.92	29.48	-	-	910	68	1070	74	8.187	207.9	47.1
8	8 5/8	219.1	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
12	12 3/4	323.9	0.344	8.7	-	38.23	17.34	56.72	-	-	1150	79	1340	92	10.062	255.7	91.6
			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	109	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

Medium Series Quality: DIN 2240

SIZE		DIN 2440					DIN 2441				
OD		WT mm	WEIGHT				WT mm	WEIGHT			
(nom) inch	mm		BPE kg/m	BPE 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	BPE 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	4.83	4.42	4.55	4.56
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

DN	SIZE		DIN 2440					DIN 2441				
	OD		WT mm	WEIGHT				WT mm	WEIGHT			
(nom) inch	mm	BPE kg/m		BPE 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	2.6	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	2.94	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	14.50	14.80	14.91	15.21
120	5	139.7	5.0	16.60	17.10	17.11	17.61	5.4	17.90	18.40	18.40	18.91
150	6	165.2	5.0	19.80	20.40	20.40	21.00	5.4	21.30	21.90	21.90	22.50

### ISO 85

DN	SIZE		DIN 2440					DIN 2441				
	OD		WT mm	WEIGHT				WT mm	WEIGHT			
(nom) inch	mm	BPE kg/m		BPE 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	1.15	1.15	1.16	3.2	0.95	0.96	1.02	1.03
20	3/4	26.9	2.3	1.39	1.48	1.48	1.49	3.2	1.38	1.39	1.47	1.48
25	1	33.7	2.9	2.2	2.32	2.32	2.34	4.0	1.98	2.0	2.1	2.12
32	1 1/4	42.4	2.9	2.82	2.85	2.97	3.0	4.0	2.54	2.57	2.69	2.72
40	1 1/2	48.3	2.9	3.24	3.28	3.41	3.45	4.0	3.23	3.27	3.4	3.44
50	2	60.3	3.2	4.49	4.56	4.71	4.78	4.5	4.08	4.15	4.3	4.37
65	2 1/2	76.1	3.2	5.73	5.85	6.0	6.12	4.5	5.71	5.83	5.98	6.10
80	3	88.9	3.6	7.55	7.72	7.87	10.04	5.0	6.72	6.89	7.04	7.21
100	4	114.3	4.0	10.08	11.1	11.22	11.52	5.4	9.75	10.0	10.17	10.42



**GPE:**

Galvanised Plain

**GTC:**

Galvanised Threaded and Coupled

**BPE:**

Black Plain

**BTC:**

Black Threaded and Coupled

**OD:**

Outside Diameter

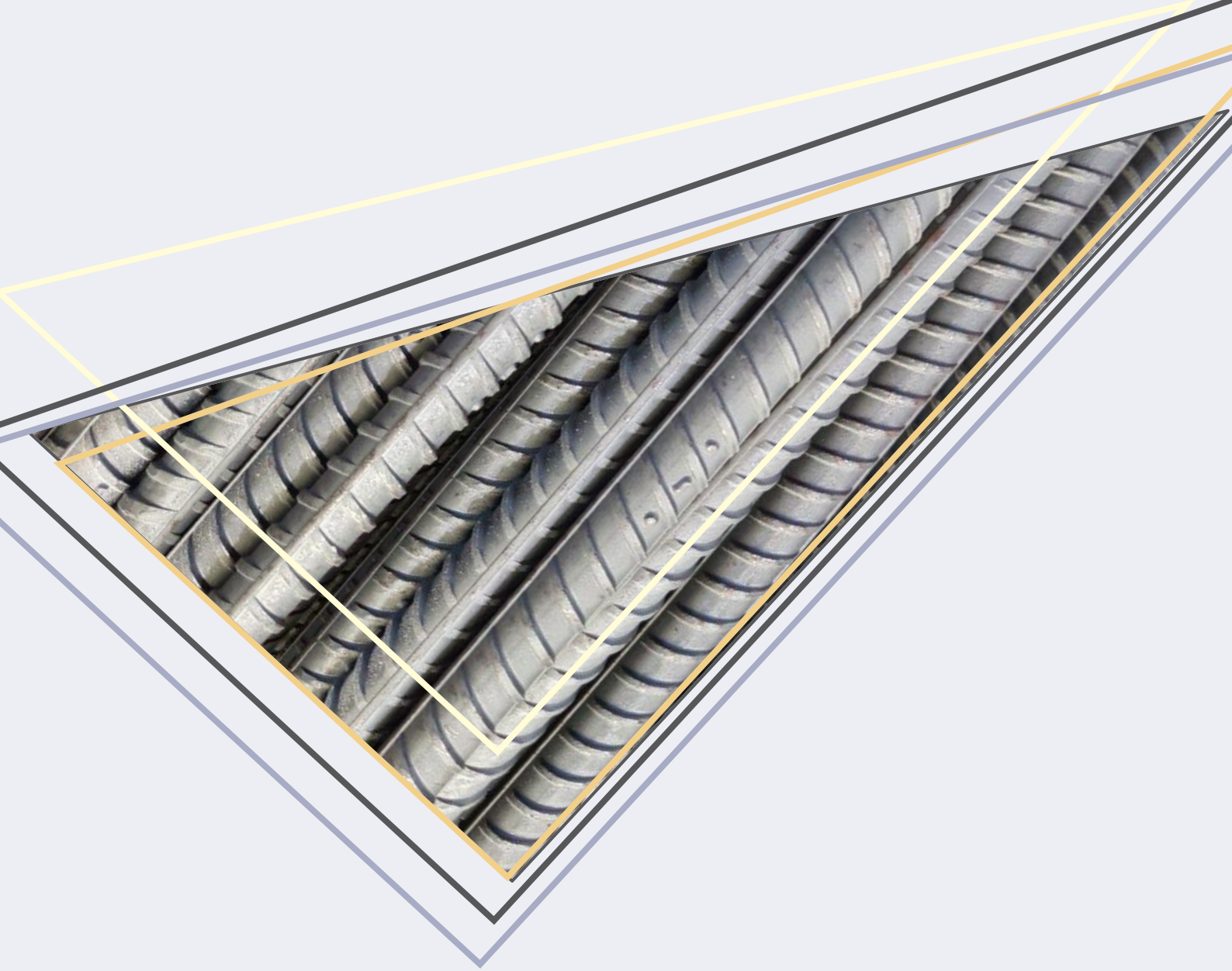
**WT:**

Wall Thickness

# MURAT METAL



## PRODUCT CATALOGUE



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