



DAYAL STEEL SUPPLIERS L.L.C.

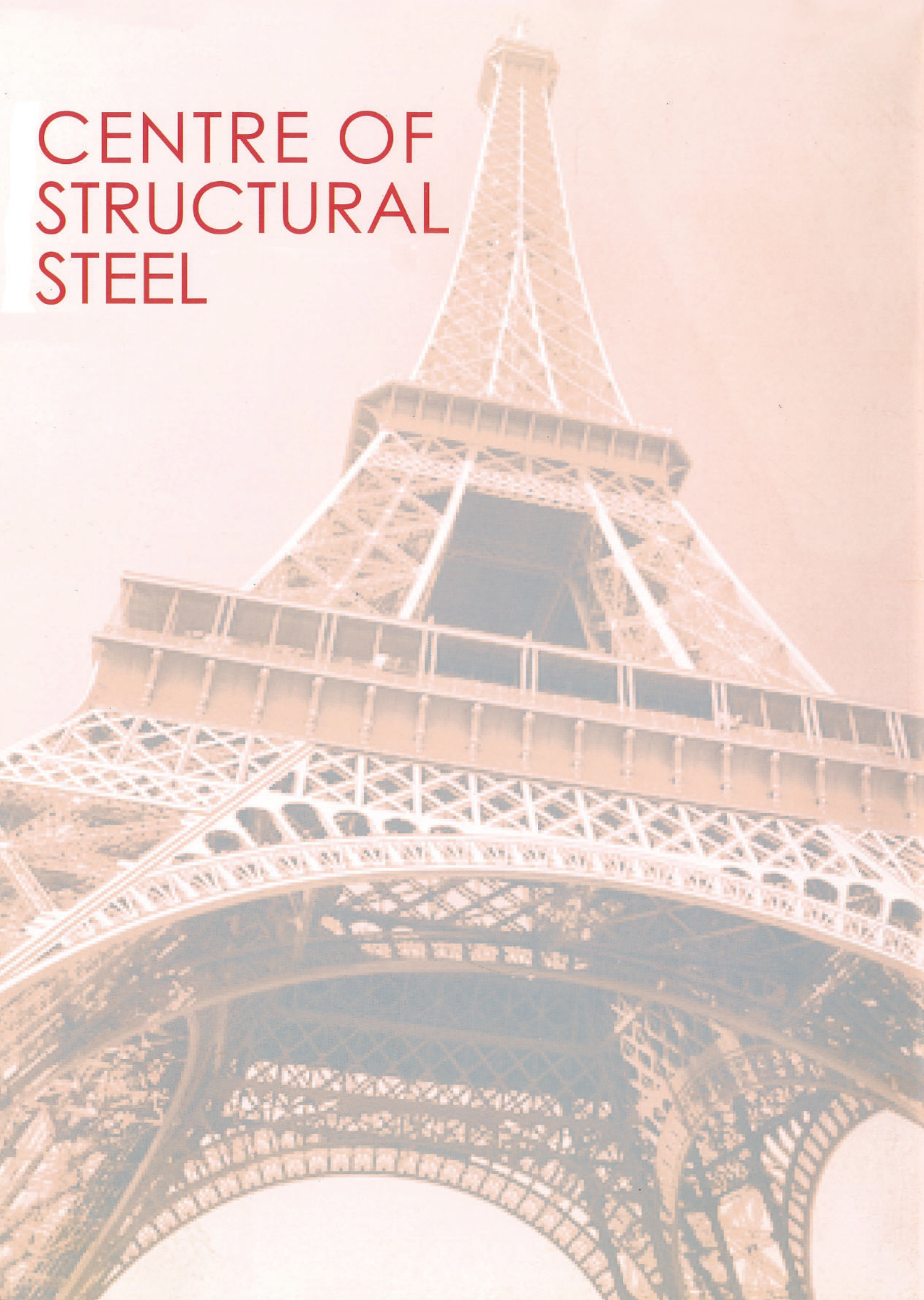


Centre of structural steel

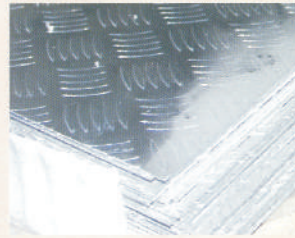
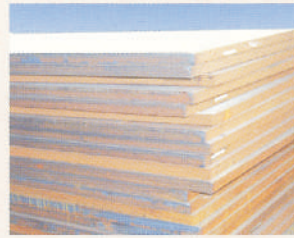
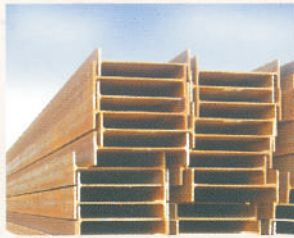


www.dayalsteelonline.com

CENTRE OF STRUCTURAL STEEL



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ABOUT THE COMPANY



Dayal Steel Suppliers LLC (DSS), Established in 1976, is one of the largest importer, exporter and stockist of Structural Steel and Building materials in the United Arab Emirates. We are located in the Ras Al Khor Industrial Area No.1, near Dubai Municipality Used Car Complex, Al Aweer Dubai.

At DSS, we stock Flat Products such as Mild Steel Plain Sheets / Coils / Chequered Sheets in sizes 4'x 8' / 5'x20/2mx6m / 2.5mx8m / 3.05x12m, Galvanized Sheets / Coils, Cold Rolled Sheets / Coils and Aluminium Plain / Chequered Sheets, as per your requirement.

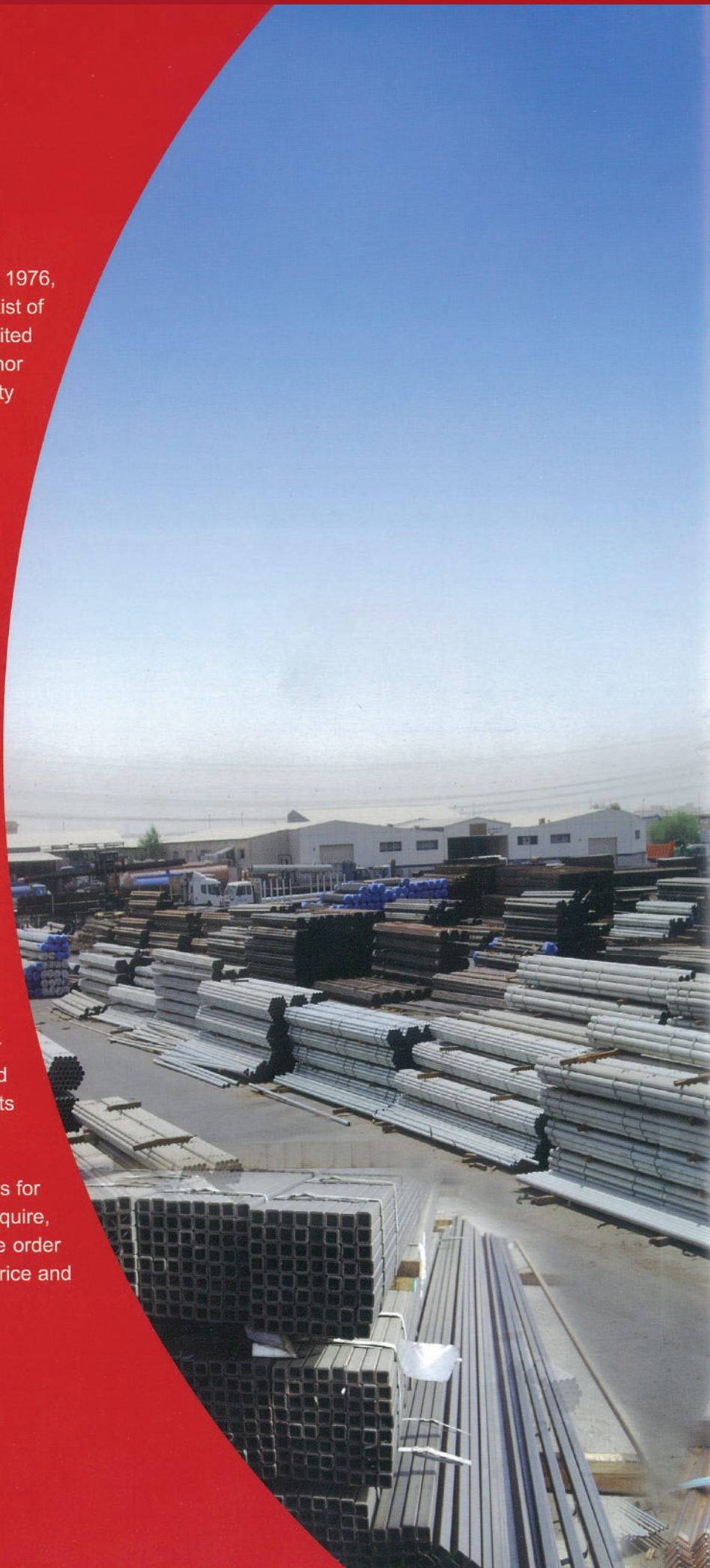
We also stock Long Products such as Universal Beams, Columns, Channels, I & H Beams, HEA, HEB, IPE, IPE-AA, UPN, UPE, M.S. Angles, Flat Bars, Square Bars, Hexagonal Bars, Shafting Bars, Round Bars and other allied items.

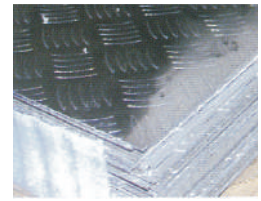
At DSS we stock a full range of ERW pipes (Black and Galvanizes) and Hollow Sections manufactured by our sister concern Universal Tube and Plastic Industries Ltd., (UTP, Located in the Jebel Ali Free Zone).

We also have a "Service Center" at Ajman for Shearing and Slitting Hot Rolled, Cold Rolled and Galvanized coils to supply cut length sheets and slits.

It will be our pleasure to welcome your enquiries for any of the above products / sizes you may require, which will receive our attention in executing the order to your utmost satisfaction in terms of quality, price and delivery.

Managing Director





D E S C R I P T I O N

A. Pipes & Hollow Sections

5

[Locally Manufactured by Universal Tube And Plastic Ind. Ltd. (UTP), Jebel Ali Free Zone, Dubai, UAE]

- Mild Steel / Galvanized Pipes 6
- M.S. Pipes (Sch 40) 7
- Square Hollow Sections 8
- Rectangular Hollow Sections 9

B. Flat Products

10

- Hot Rolled Coils / Sheets / Plates 11
- Mild Steel Chequered Sheets 12
- Cold rolled Sheets 12
- Galvanized Steel Sheets 13
- Aluminium Plain Sheets / Chequered Sheets 13

C. Long Products

14

- IPE / IPE (AA) 15-16
- HEA-16 / HEB / HEM 17
- JIS Beams (H& I) 18
- Universal Beams / Columns 19-20
- JIS Channels / UPN Channels 21
- PFC / UPE Channels 22
- Equal / Unequal Angles 23
- Mild Steel Flat Bars 24
- Mild Steel Round Bars / Shafting Bars 25
- Mild Steel Square Bars 25
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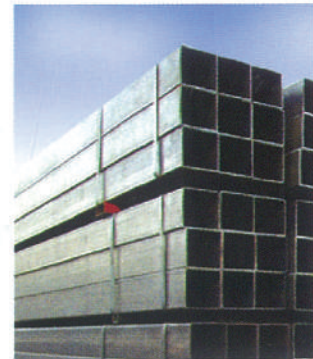
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STRUCTURAL STEEL GRADES



EUROPE		GERMANY	FRANCE	U.K.	ITALY	SPAIN	JAPAN		INDIA	CANADA	U.S.A.	INTERNATIONAL
EN 10025-2	EN 10025 (93)	DIN 17100	NFAA35-501	BS 4360	UNI 7070	UNE36.080	JIS 3101	JIS 3106	IS	CSA G40-21	ASTM	ISO 630
S 185	S 185	ST33	A 33		Fe 320	A 3100 AE235 B-FU	SS 330				A 283 A,B,C,D	E 185
S 235 JR	S 235 JR (G2)	R St 37.2	E 24.2	40 (A) B	Fe 360 B	AE 235 B-FN	SS 400	SM 400 A	IS 226	230 G		E 235 B
S 235 JO	S 235 JO	St 37.3 U	E 24.3	40 C	Fe 360 C	AE 235 C		SM 400 B	Fe 410-S			E 235 C
	S 235 J2G3	St 37.3 N	E 24.4	40 D	Fe 360 D	AE 235 D		SM 400 C				E 235 D
S 235 J2	S 235 J2G4			40 D							A 36	
S 275 JR	S 275 JR	St 44.2	E 28.2	43 (A) B	Fe 430 B	AE 275 B			IS 2062	260W.WT	A 529	E 275 B
S 275 JO	S 275 JO	St 44.3 U	E 28.3	43 C	Fe 430C	AE 275 C			Fe 410 WA		gr. 50 . 55	E 275 C
	S 275 J2 G3	St 44.3 N	E 28.4	43 D	Fe 430 D	AE 275 D			Fe 410 WB		A 572	E 275 D
S 275 J2	S 275 J2 G4			43 D					Fe 410 WC	300 W. WT	gr 42,50	
											A 573	
											gr . 58, 65, 70	
S 355 JR	S355 JR		E 36.2	50 B	Fe 510 B	AE 355 B	SS 490	SM 490 A	IS 961	350 W. WT	A 633	E 355 C
S 355 JO	S 355 JO	St 52.3 U	E 36.3	50 C	Fe 510 C	AE 355 C		SS 490 B	Fe 570 HT		gr . A, C, D	E 355 D
	S 355 J2 G3	St 52.3 N		50 D	Fe 510 D	AE355 D		SS 490 C	Fe 510 WHT			
S 355 J2	S355 J2G4		E 36.4	50 D				SS 490 YA			A 656	
	S 355 K2 G3			50DD	Fe 510 DD			SS 490 YB			gr. 50	
S 355 K2	S 355 K2 G4			50 D				SM 520 B				
							SS 540	SM 520 C			A 709	
	E 295	St 50.2	a 50.2		Fe 490						gr .36,50,50 W	Fe E 490
	E 335	St 60.2	A 60.2		Fe 590						A 808	FE E 590
	E 360	St 70.2	A 70.2		Fe 690							Fe E 690



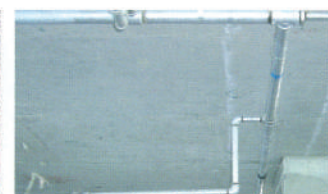


ITEM LIST

1. Mild Steel / Galvanized Pipes (As per Bs.:1387-1985)
2. M.S. /G.I.Pipes (Sch 40,As per ASTM A 53)
3. Square Hollow Sections
4. Rectangular Hollow Sections

APPLICATIONS

- Electromechanical & Fire Fighting applications for Conveyance of water, Solvents & Gas
- Structural Applications
- As Scaffolding Tube in the Building Industry
- Fencing Purposes



Product Specifications



British Standard Specification for Plain End &
Screwed Socketed Steel Tubes & Tubulars
As per B.S.: 1387 -1985

Tube	Nominal Bore		Outside Dia. of Black Tube				Thickness		Weight of Black Tube					
			max		min				Plain end			Screwed & Socketed		
	in	mm	in	mm	in	mm	in	mm	lb/ft	kg/ft	kg.lm	lb/ft	kg/ft	kg.lm
Light (A)	1/2	15	0.841	21.4	0.825	21.0	0.079	2.0	0.640	0.289	0.947	0.646	0.291	0.956
	3/4	20	1.059	26.9	1.041	26.4	0.091	2.3	0.944	0.421	1.38	0.954	0.424	1.39
	1	25	1.328	33.8	1.309	33.2	0.102	2.6	1.350	0.603	1.98	1.360	0.610	2.00
	1 1/4	32	1.670	42.5	1.650	41.9	0.102	2.6	1.730	0.774	2.54	1.750	0.783	2.57
	1 1/2	40	1.903	48.4	1.882	47.8	0.114	2.9	2.190	0.985	3.23	2.220	0.997	3.27
	2	50	2.370	60.2	2.347	59.6	0.114	2.9	2.760	1.24	4.08	2.810	1.26	4.15
	2 1/2	65	2.991	76.0	2.960	75.2	0.126	3.2	3.900	1.74	5.71	3.980	1.78	5.83
	3	80	3.491	88.7	3.460	87.9	0.126	3.2	4.580	2.05	6.9	4.690	2.10	6.89
	4	100	4.481	113.9	4.450	113.0	0.142	3.6	6.640	2.97	9.75	6.840	3.05	10.0
Medium (B)	1/2	15	0.856	21.7	0.831	21.1	0.102	2.6	0.822	0.369	1.21	0.828	0.312	1.22
	3/4	20	1.072	27.2	1.047	26.6	0.102	2.6	1.060	0.475	1.56	1.030	0.479	1.57
	1	25	1.346	34.2	1.316	33.4	0.126	3.2	1.640	0.735	2.41	1.650	0.741	2.43
	1 1/4	32	1.687	42.9	1.657	42.1	0.126	3.2	2.110	0.945	3.10	2.130	0.954	3.13
	1 1/2	40	1.919	48.8	1.889	48.0	0.126	3.2	2.430	1.09	3.57	2.460	1.10	3.61
	2	50	2.394	60.8	2.354	59.8	0.142	3.6	3.420	1.53	5.03	3.470	1.55	5.10
	2 1/2	65	3.014	76.6	2.969	75.4	0.142	3.6	4.380	1.96	6.43	4.460	1.99	6.55
	3	80	3.524	89.5	3.469	88.1	0.157	4.0	5.690	2.55	8.37	5.800	2.60	8.54
	4	100	4.524	114.9	4.459	113.3	0.177	4.5	8.140	3.72	12.20	8.340	3.81	12.50
	5	125	5.535	140.6	5.460	138.7	0.197	5.0	11.122	5.06	16.60	11.457	5.21	17.10
	6	150	6.539	166.1	6.460	164.1	0.197	5.0	13.199	6.00	19.70	13.601	6.19	20.30
Heavy (C)	1/2	15	0.856	21.7	0.831	21.1	0.126	3.2	0.977	0.439	1.44	0.983	0.442	1.45
	3/4	20	1.072	27.2	1.047	26.6	0.126	3.2	1.270	0.570	1.87	1.280	0.573	1.88
	1	25	1.346	34.2	1.316	33.4	0.157	4.0	2.000	0.896	2.94	2.010	0.902	2.96
	1 1/4	32	1.687	42.9	1.657	42.1	0.157	4.0	2.580	1.16	3.80	2.600	1.17	3.83
	1 1/2	40	1.919	48.8	1.889	48.0	0.157	4.0	2.980	1.33	4.38	3.010	1.35	4.42
	2	50	2.394	60.8	2.354	59.8	0.177	4.5	4.140	1.89	6.19	4.190	1.91	6.26
	2 1/2	65	3.014	76.6	2.969	75.4	0.177	4.5	5.310	2.42	7.93	5.390	2.45	8.05
	3	80	3.524	89.5	3.469	88.1	0.197	5.0	6.760	3.14	10.30	6.870	3.20	10.50
	4	100	4.524	114.9	4.459	113.3	0.212	5.4	9.710	4.42	14.50	9.910	4.51	14.80
	5	125	5.535	140.6	5.460	138.7	0.212	5.4	11.993	5.46	17.90	12.328	5.61	18.40
	6	150	6.539	166.1	6.460	164.1	0.212	5.4	14.271	6.49	21.30	14.673	6.67	21.90

TOLERANCE

Thickness : Light Tubes

: Not Limited

: -8%

Medium & Heavy tubes

: Not Limited

: -10%

Mass: Light Medium

1) For quantities of 150 meters
& Heavy Tubes and over of one size
2) For Single Tubes

: +4%

: -8%

Length : Light, Medium & Heavy Tubes

Random lengths of 4 to 7
metres unless specified otherwise

Product Specifications

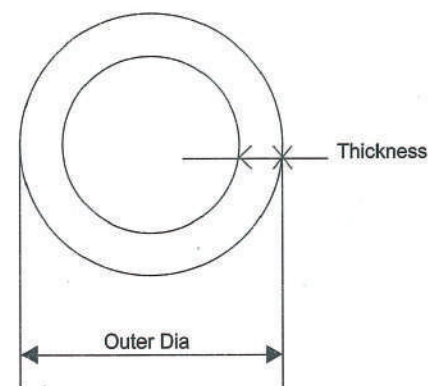


American Standard Specification for
Welded Pipes as per ASTM A-53 Type
E. Grades A & B Pipe

Nominal Size	Outside Dia. of Black Tube				Thickness		Calculated Weight				Hydrostatic Test Pressure	
	max		min				Plain Ends		Threads and Couplings		Grade. A	Grade. B
in	in	mm	in	mm	in	mm	lb/ft	kg/m	lb/ft	kg/m	psi (Mpa)	psi (Mpa)
1/2	0.856	21.70	0,809	20.5	0.109	2.77	0.85	1.27	0.85	1.27	700 (4.83)	700 (4.83)
3/4	1.07	27.10	1.02	25.91	0.113	2.87	1.13	1.69	1.13	1.69	700 (48.3)	700 (4.83)
1	1.33	33.80	1.28	32.61	0.133	2.38	1.68	2.50	1.68	2.50	700 (4.83)	700 (4.83)
1 1/4	1.68	42.60	1.63	41.41	0.140	3.56	2.27	3.39	2.28	3.40	1200 (8.27)	1300 (8.96)
1 1/2	1.92	48.70	1.87	47.51	0.145	3.68	2.72	4.05	2.73	4.06	1200 (8.27)	1300 (8.96)
2	2.40	60.90	2.31	59.70	0.154	3.91	3.65	5.44	3.68	5.46	2300 (15.86)	2500 (17.24)
2 1/2	2.90	73.73	2.85	72.27	0.203	5.16	5.79	8.63	5.82	8.67	2500 (17.24)	2500 (17.24)
3	3.53	89.79	3.46	88.01	0.216	5.49	7.58	11.29	7.62	11.35	2220 (15.31)	2500 (17.24)
3 1/2	4.04	102.62	3.96	100.58	0.226	5.74	9.11	13.57	9.20	13.71	2030 (14.00)	2370 (16.34)
4	4.54	115.44	4.45	113.16	0.237	6.02	10.79	16.07	10.89	16.23	1900 (13.10)	2210 (15.24)
5	5.62	142.71	5.51	139.89	0.258	6.55	14.62	21.77	14.81	22.07	1670 (11.51)	1950 (13.44)
6	6.69	169.98	6.56	166.62	0.280	7.11	18.97	28.26	19.18	28.58	1520 (10.48)	1780 (12.27)
8	8.625	219.10	8.625	219.10	0.322	8.18	58.59	42.54			1340 (9.24)	
10	10.748	273.00	10.748	273.00	0.365	9.27	40.51	60.28			1220 (8.41)	
12	12.75	323.85	12.75	323.85	0.405	10.3	53.52	79.64			1150 (7.93)	

TOLERANCE

Weight : +5%
Diameter : NB 1 1/2 + 1/64, - 1/32"
Thickness : -12.5% +not limited

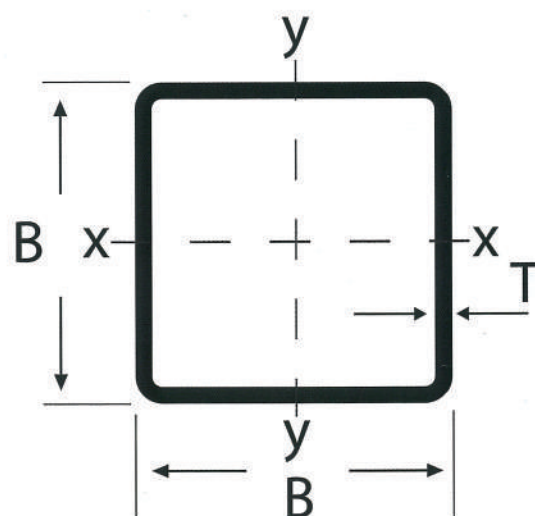
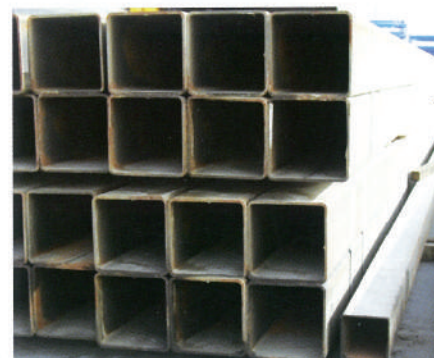


STANDARD DIMENSIONAL PROGRAM

SIZE	Weight kg/mtr	SIZE	Weight kg/mtr	SIZE	Weight kg/mtr
16 X 16 X 1.2	0.57	60 X 60 X 4.5	7.82	140 X 140 X 7.10	29.2
16 X 16 X 1.5	0.70	75 X 75 X 2.0	4.51	140 X 140 X 8.00	32.6
16 X 16 X 2.0	0.92	75 X 75 X 2.5	5.63	140 X 140 X 8.80	35.6
19 X 19 X 1.2	0.64	75 X 75 X 3.0	6.60	140 X 140 X 10.00	40
19 X 19 X 1.5	0.78	75 X 75 X 4.0	8.60	140 X 140 X 12.00	47
19 X 19 X 2.0	0.99	75 X 75 X 4.5	9.90	140 X 140 X 12.50	48.7
19 X 19 X 2.5	1.39	80 X 80 X 2.0	4.83	150 X 150 X 5.00	22.6
19 X 19 X 3.0	1.64	80 X 80 X 2.5	6.01	150 X 150 X 5.60	25.1
25 X 25 X 1.2	0.87	80 X 80 X 3.0	7.07	150 X 150 X 6.00	26.8
25 X 25 X 1.5	1.06	80 X 80 X 4.0	9.22	150 X 150 X 6.30	28.1
25 X 25 X 2.0	1.37	80 X 80 X 4.5	10.60	150 X 150 X 7.10	31.4
25 X 25 X 2.3	1.63	80 X 80 X 5.0	11.27	150 X 150 X 8.00	35.1
25 X 25 X 2.5	1.69	80 X 80 X 6.0	14.48	150 X 150 X 8.80	38.4
25 X 25 X 3.0	1.89	100 X 100 X 2.0	6.20	150 X 150 X 10.00	43.1
30 X 30 X 1.2	1.06	100 X 100 X 2.5	7.55	150 X 150 X 12.00	50.8
30 X 30 X 1.5	1.30	100 X 100 X 3.0	8.96	150 X 150 X 12.50	52.7
30 X 30 X 2.0	1.68	100 X 100 X 4.0	11.94	150 X 150 X 16.00	65.2
30 X 30 X 2.5	2.10	100 X 100 X 4.5	13.37	200 x 200 x 5.00	30.4
30 X 30 X 3.0	2.36	100 X 100 X 5.0	14.66	200 x 200 x 5.60	33.9
30 X 30 X 4.0	3.51	100 X 100 X 5.5	15.99	200 x 200 x 6.00	36.2
38 X 38 X 1.5	1.68	100 X 100 X 6.0	17.28	200 x 200 x 7.10	42.6
38 X 38 X 2.0	2.18	120 X 120 X 4.00	14.4	200 x 200 x 8.00	47.7
38 X 38 X 2.5	2.75	120 X 120 X 5.00	17.8	200 x 200 x 8.80	52.2
38 X 38 X 3.0	3.12	120 X 120 X 5.60	19.9	200 x 200 x 10.00	58.8
38 X 38 X 4.0	3.96	120 X 120 X 6.00	21.2	200 x 200 x 12.00	69.6
40 X 40 X 1.5	1.81	120 X 120 X 6.30	22.2	200 x 200 x 12.50	72.3
40 X 40 X 2.0	2.37	120 X 120 X 7.10	24.7	200 x 200 x 14.20	81.1
40 X 40 X 2.5	2.92	120 X 120 X 8.00	27.6	200 x 200 x 16.00	90.3
40 X 40 X 3.0	3.45	120 X 120 X 8.80	30.1	250 x 250 x 5.00	38.3
40 X 40 X 4.0	4.46	120 X 120 X 10.00	33.7	250 x 250 x 5.60	42.7
50 X 50 X 1.5	2.28	120 X 120 X 12.00	39.5	250 x 250 x 6.00	45.7
50 X 50 X 2.0	2.96	120 X 120 X 12.50	40.9	250 x 250 x 7.10	53.7
50 X 50 X 2.5	3.71	120 X 120 X 12.50	40.9	250 x 250 x 8.00	60.3
50 X 50 X 3.0	4.28	125 x 125 x 3.00	11.38	250 x 250 x 8.80	66.13
50 X 50 X 4.0	5.51	125 x 125 x 3.20	12.13	250 x 250 x 10.00	74.5
60 X 60 X 1.5	2.76	125 x 125 x 4.50	17.06	250 x 250 x 12.00	88.5
60 X 60 X 2.0	3.56	125 x 125 x 6.00	27.3	250 x 250 x 12.50	91.9
60 X 60 X 2.5	4.47	140 X 140 X 5.60	23.4	250 x 250 x 14.20	103
60 X 60 X 3.0	5.19	140 X 140 X 6.00	24.9	250 x 250 x 16.00	115
60 X 60 X 4.0	6.71	140 X 140 X 6.30	26.1		

Specifications

As Per JIS G3466 STKR 400

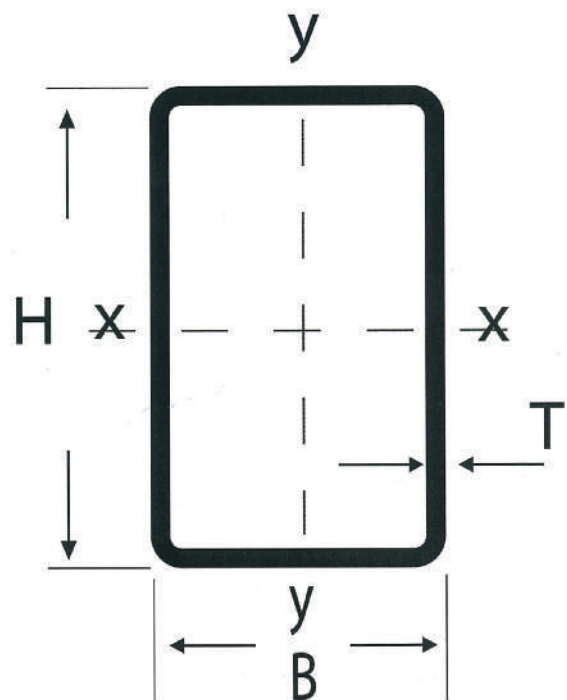
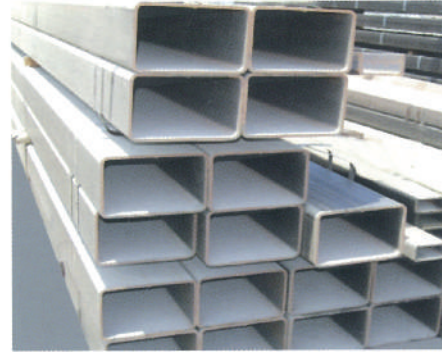


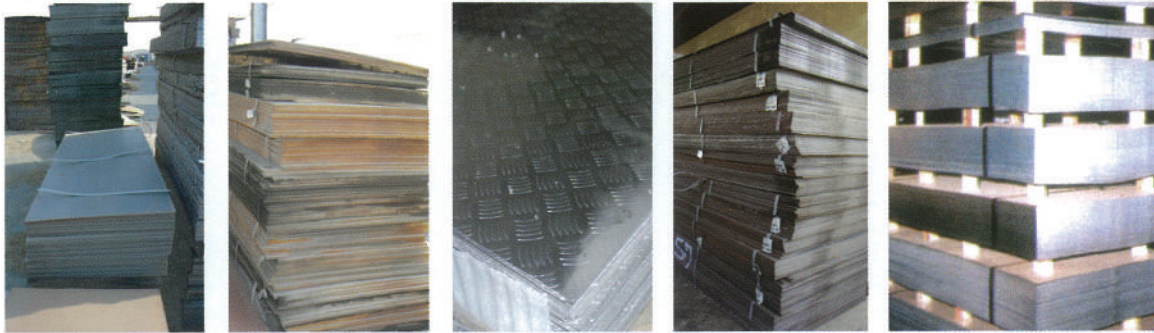
RECTANGULAR HOLLOW SECTIONS

STANDARD DIMENSIONAL PROGRAM

SIZE	Weight kg/mtr	SIZE	Weight kg/mtr
40 X 20 X 1.2	1.06	125 X 75 X 3.0	9.03
40 X 20 X 1.5	1.30	125 X 75 X 4.0	12.17
40 X 20 X 2.0	1.68	125 X 75 X 4.5	13.37
40 X 20 X 2.5	2.10	125 X 75 X 5.0	14.80
40 X 20 X 3.0	2.36	125 X 75 X 5.5	16.68
50 X 25 X 1.5	1.65	125 X 75 X 6.0	17.61
50 X 25 X 2.0	2.15	150 X 75 X 2.5	8.68
50 X 25 X 2.5	2.71	150 X 75 X 3.0	10.46
50 X 25 X 3.0	3.07	150 X 75 X 4.0	13.85
50 X 25 X 4.0	4.23	150 X 75 X 4.5	15.44
50 X 30 X 1.5	1.81	150 X 75 X 5.0	17.23
50 X 30 X 2.0	2.37	150 X 75 X 5.5	18.83
50 X 30 X 2.5	2.92	150 X 75 X 6.0	20.49
50 X 30 X 3.0	3.45	150 X 100 X 4.00	15.1
50 X 30 X 4.0	4.46	150 X 100 X 5.00	18.6
60 X 30 X 1.5	2.00	150 X 100 X 5.60	20.7
60 X 30 X 2.0	2.62	150 X 100 X 6.00	22.1
60 X 30 X 2.5	3.32	150 X 100 X 6.30	23.1
60 X 30 X 3.0	3.78	150 X 100 X 7.10	25.9
60 X 30 X 4.0	5.42	150 X 100 X 8.00	28.9
60 X 40 X 1.5	2.28	150 X 100 X 8.80	31.5
60 X 40 X 2.0	2.94	150 X 100 X 10.00	35.3
60 X 40 X 2.5	3.71	150 X 100 X 12.00	41.4
60 X 40 X 3.0	4.25	150 X 100 X 12.50	42.8
60 X 40 X 4.0	5.46	200 X 100 X 5.00	22.6
75 X 50 X 1.5	2.90	200 X 100 X 5.60	25.1
75 X 50 X 2.0	3.85	200 X 100 X 6.00	26.8
75 X 50 X 2.5	4.80	200 X 100 X 6.30	28.1
75 X 50 X 3.0	5.73	200 X 100 X 7.10	31.4
75 X 50 X 4.0	7.58	200 X 100 X 8.00	35.1
80 X 40 X 1.5	2.71	200 X 100 X 8.80	38.4
80 X 40 X 2.0	3.56	200 X 100 X 10.00	43.1
80 X 40 X 2.5	4.47	200 X 100 X 12.00	50.8
80 X 40 X 3.0	5.19	200 X 100 X 12.50	52.7
80 X 40 X 4.0	6.71	200 X 100 X 14.20	58.9
100 X 50 X 2.0	4.51	200 X 100 X 16.00	65.2
100 X 50 X 2.5	5.63	300 X 200 X 5.00	38.3
100 X 50 X 3.0	6.60	300 X 200 X 5.60	42.7
100 X 50 X 4.0	8.60	300 X 200 X 6.00	45.7
100 X 50 X 4.5	9.90	300 X 200 X 6.30	47.9
100 X 50 X 5.0	10.49	300 X 200 X 7.10	53.7
100 X 50 X 6.0	12.27	300 X 200 X 8.00	60.3
120 X 60 X 2.5	6.78	300 X 200 X 8.80	66
120 X 60 X 3.0	8.10	300 X 200 X 10.00	74.5
120 X 60 X 4.0	10.70	300 X 200 X 12.00	88.5
120 X 60 X 4.5	11.99	300 X 200 X 12.50	91.9
120 X 60 X 5.0	13.30	300 X 200 X 14.20	103
125 X 75 X 2.5	7.55	300 X 200 X 16.00	115

Specifications As Per JIS G3466 STKR 400





I T E M L I S T

1. Hot Rolled Coils / Sheets/ Plates
2. Mild Steel Chequered Sheets
3. Cold Rolled Coils / Sheets
4. Galvanized Steel Coil / Sheets
5. Aluminium Plain Sheets / Chequered Sheets
6. Stainless Steel Sheets

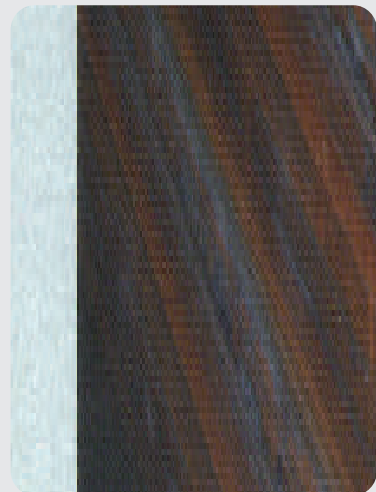
A P P L I C A T I O N S

- Structural use
- Fabrication
- Construction Industry



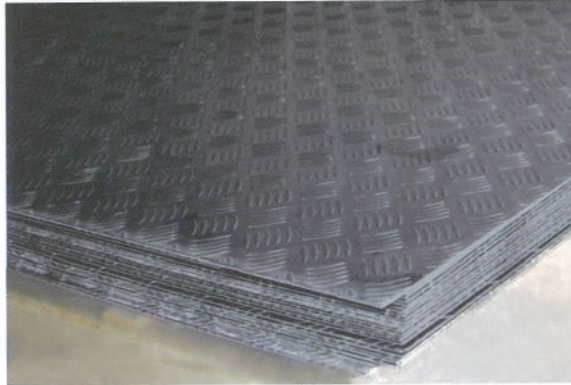
STANDARD DIMENSIONAL PROGRAM

STANDARD DIMENSIONAL PROGRAM		
Product	Size	Grade
Hot Rolled Steel Coils	1219mm,1500mm and 2000mm width,	S235JR,ASTM A36, S275JR/JIS G3101/SS400
	Thickness : 1.2mm to 16mm (1219mm)	ST 37.2, SAE1015, JIS G3131
	2.8mm to 16mm (1500mm)	
Hot Rolled Steel Plates /Sheets	1.219m x2.438m,1.5m x 6m,2m x6m	S275JR,ASTM A36,JIS G3101,SS400,
	2.5mx8m,2.5m x12m,3.05mx12m	ST37.2.
High Tensile & Offshore Quality	2m x6m,2.5mx8m,2.5m x12m,3.05mx12m,	API 2H GR50,S355K2+N,S355J2+N,S355JO,
	Thickness : 6mm to 100mm	S355JR, A572 Gr50
Marine Quality Plates	2m x6m,2.5mx8m,2.5m x12m,3.05mx12m,	GR A/B/D, EH36 with TPI & 3.2 Certification
	Thickness : 6mm to 100mm	
Pressure Vessel Plates	2m x6m,2.5mx8m,2.5m x12m,3.05mx12m,	ASTM/ASME SA 516 GR60/65/70N/A537
	Thickness : 6mm to 100mm	Class 1, NACE MR0175, Vaccum Degassed
		with TPI and 3.2 Certification.



STANDARD DIMENSIONAL PROGRAM

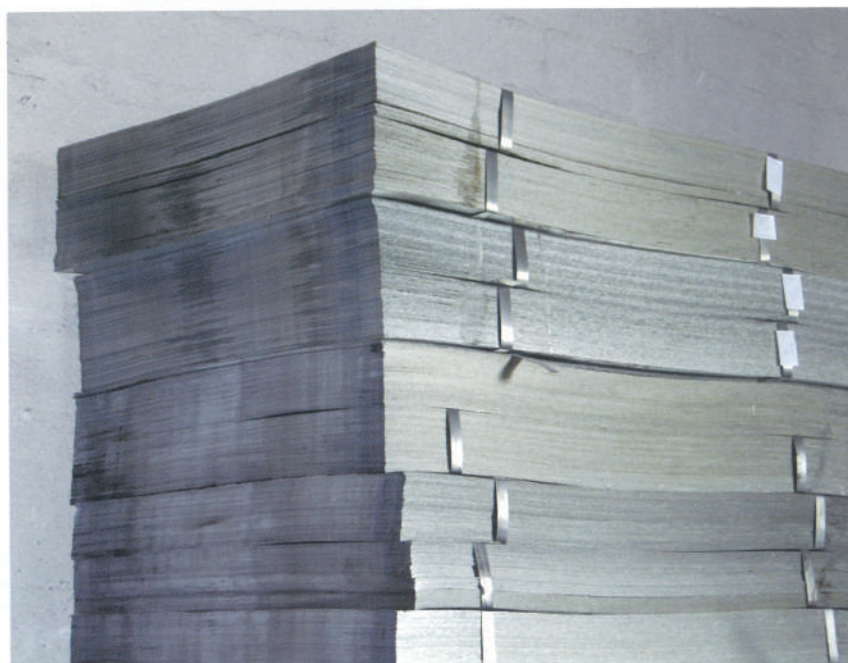
SIZE /WIDTH	THICKNESS	GRADE
4'X8'	2.8MM TO 12MM	ASTM A36
5'X 20'	6MM TO 12MM	ASTM A36



COLD ROLLED COILS / SHEETS

STANDARD DIMENSIONAL PROGRAM

SIZE /WIDTH	THICKNESS	GRADE
1219MM	0.5MMX TO 1.5MM	ST 12.03
4'X8'	0.5MM TO 1.5MM	ST 12.03



STANDARD DIMENSIONAL PROGRAM

SIZE /WIDTH	THICKNESS	GRADE
1219 MM	0.32 MM TO 4MM	JIS G 3123 /ASTM A653
1219 MMX 2438 MM	0.32 MM TO 4MM	JIS G 3123 /ASTM A 653

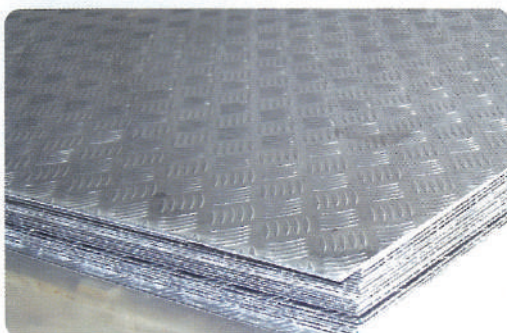
SPECIFICATIONS : Lock Forming Quality, Small / Regular Spangle,Chromated well dry & Unoiled
 ZINC COATING : Z27 /Z22
 COUNTRY OF ORIGIN : South Africa /Japan / Taiwan/ India

ALUMINUM PLAIN SHEET / CHEQUERED SHEET



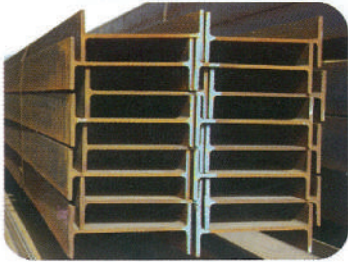
STANDARD DIMENSIONAL PROGRAM

SIZE /WIDTH	THICKNESS	GRADE
4'x 8'	26 Gauge to 12 Gauge	AA1100 / AA1200
4'x 8'	2mm to 5.5mm	AA3105



STANDARD DIMENSIONAL PROGRAM

SIZE /WIDTH	THICKNESS	GRADE
4'x 8'	1.5 MM TO 6MM	AA1100 / AA1200



ITEM LIST

- | | |
|--------------------------------|--|
| 1. IPE / IPE (AA) | 7. Equal / Unequal Angles |
| 2. HEA / HEB / HEM | 8. Mild Steel Flat Bars |
| 3. JIS Beams (H & I) | 9. Mild Steel Round Bars / Shafting Bars |
| 4. Universal Beams / Columns | 10. Mild Steel Square Bars |
| 5. JIS Channels / UPN Channels | 11. Mild Steel Tee Sections |
| 6. UPE / PFC Channels | |



APPLICATIONS

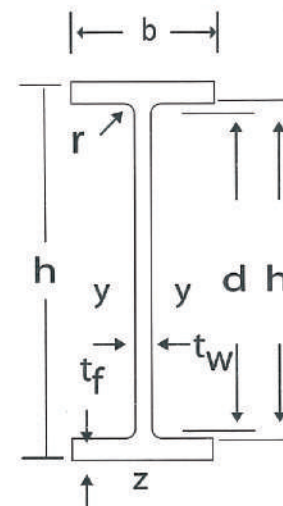
- Structural use
- Fabrication
- Construction Industry



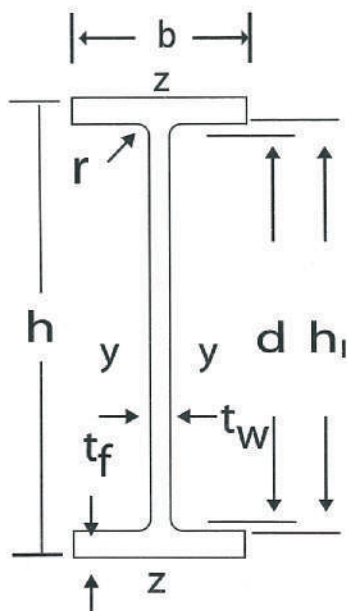
Specification - As Per ASTM A 36 / EN 10025 S275JR

STANDARD DIMENSIONAL PROGRAM

Designation	G	h	b	t _w	t _f	r	A	h _j	d
	kg/m	mm	mm	mm	mm	mm	cm ²	mm	mm
IPE 100AA	6.72	97.2	55	3.6	4.5	7	8.56	88.6	74.6
IPE 100	8.10	100	55	4.1	5.7	7	10.3	88.6	74.6
IPE 120 AA	8.66	118	64	3.8	5.1	7	11.0	107.4	93.4
IPE 120	10.4	120	64	4.4	6.3	7	13.2	107.4	93.4
IPE 140 AA	10.5	138	73	3.8	5.6	7	13.4	126.2	112.2
IPE 140	12.6	140	73	4.7	6.9	7	16.4	126.2	112.2
IPE 140 R	14.4	142	72	5.3	7.8	7	18.4	126.4	112.4
IPE 160 AA	12.7	157	82	4.0	5.9	9	16.2	145.2	127.2
IPE 160	15.8	160	82	5.0	7.4	9	20.1	145.2	127.2
IPE 160 R	17.7	162	81	5.6	8.5	9	20.6	145.0	127.0
IPE 180 AA	15.4	177	91	4.3	6.5	9	19.6	164.0	146.0
IPE 180	18.8	180	91	5.3	8.0	9	23.9	164.0	146.0
IPE 180 O	21.3	182	92	6.0	9.0	9	27.1	164.0	146.0
IPE 180 R	22.1	183	89	6.4	9.5	9	28.1	164.0	146.0
IPE 200 AA	18.4	197	100	4.5	7.0	12	23.5	183.0	159.0
IPE 200	22.4	200	100	5.6	8.5	12	28.5	183.0	159.0
IPE 200 O	25.1	202	102	6.2	9.5	12	32.0	183.0	159.0
IPE 200 R	26.6	204	98	6.6	10.5	12	33.9	183.0	159.0
IPE 220 A	22.2	217	110	5.0	7.7	12	28.3	201.6	177.6
IPE 220	26.2	220	110	5.9	9.2	12	33.4	201.6	177.6
IPE 220 O	29.4	222	112	6.6	10.2	12	37.4	201.6	177.6
IPE 220 R	31.6	225	108	6.7	11.8	12	40.2	201.6	177.4
IPE 240 A	26.2	237	120	5.2	8.3	15	33.3	220.4	190.4
IPE 240 A	30.7	240	120	6.2	9.8	15	39.1	220.4	190.4
IPE 240 O	34.3	242	122	7.0	10.8	15	43.7	220.4	190.4
IPE 240 R	37.3	245	118	7.5	12.3	15	47.5	220.4	190.4



STANDARD DIMENSIONAL PROGRAM

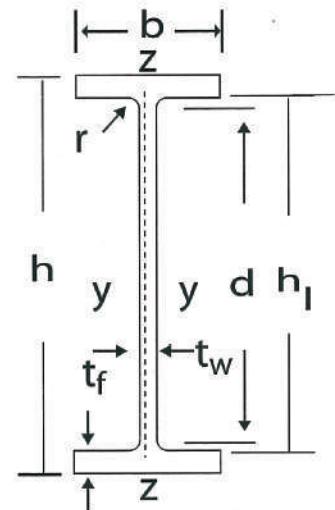


Designation	G	h	b	t _w	t _f	r	A	h _j	d
	kg/m	mm	mm	mm	mm	mm	cm ²	mm	mm
IPE 270 A	30.7	267	135	5.5	8.7	15	39.1	249.6	219.6
IPE 270	36.1	270	135	6.6	10.2	15	45.9	249.6	219.6
IPE 270 O	42.3	274	136	7.5	12.2	15	53.8	249.6	219.6
IPE 270 R	44.0	276	133	7.7	13.1	15	56.0	249.8	219.8
IPE 300 A	36.5	297	150	6.1	9.2	15	46.5	278.6	248.6
IPE 300	42.2	300	150	7.1	10.7	15	53.8	278.6	248.6
IPE 300 O	49.3	304	152	8.0	12.7	15	62.8	278.6	248.6
IPE 300 R	51.7	306	147	8.5	13.7	15	65.9	278.6	248.6
IPE 330 A	43.0	327	160	6.5	10.0	18	54.7	307.0	271.0
IPE 330	49.1	330	160	7.5	11.5	18	62.6	307.0	271.0
IPE 330 O	57.0	334	162	8.5	13.5	18	72.6	307.0	271.0
IPE 330 R	60.3	336	158	9.2	14.5	18	76.8	307.0	271.0
IPE 360 A	50.2	357.6	170	6.6	11.5	18	64.0	334.6	298.6
IPE 360	57.1	360	170	8.0	12.7	18	72.7	334.6	298.6
IPE 360 O	66.0	364	172	9.2	14.7	18	84.1	334.6	298.6
IPE 360 R	70.3	366	168	9.9	16.0	18	89.6	334.0	298.0
IPE 400 A	57.4	397	180	7.0	12.0	21	73.1	373.0	331.0
IPE 400	68.3	400	180	8.6	13.5	21	84.5	373.0	331.0
IPE 400 O	75.7	404	182	9.7	15.5	21	96.4	373.0	331.0
IPE 400 R	81.5	407	178	10.6	17.0	21	104	373.0	331.0
IPE 400 V	84.0	408	182	10.6	17.5	21	107	373.0	331.0
IPE 450 A	67.2	447	190	7.6	13.1	21	85.5	420.8	378.8
IPE 450	77.6	450	190	9.4	14.6	21	98.8	420.8	378.8
IPE 450 O	92.4	456	192	11.0	17.6	21	118	420.8	378.8
IPE 450 R	95.2	458	188	11.3	18.6	21	121	420.8	378.8
IPE 450 V	104	460	194	12.4	19.6	21	132	420.8	378.8

Specification - As Per ASTM A36 / EN 10025 S275 JR

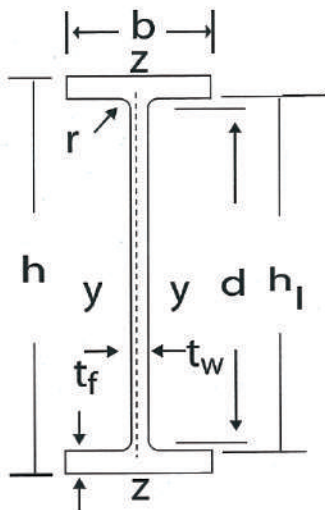
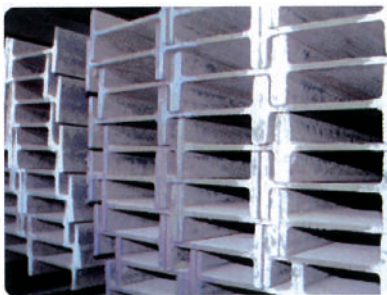
STANDARD DIMENSIONAL PROGRAM

Designation	G kg/m	h mm	b mm	t _w mm	t _f mm	r mm	A cm ²	h ₁ mm	d mm
IPE 500 A	79.4	497	200	8.4	14.5	21	101	468.0	426.0
IPE 500	90.7	500	200	10.2	16.0	21	116	468.0	426.0
IPE 500 O	107	506	202	12.0	19.0	21	137	468.0	426.0
IPE 500 R	111	508	198	12.6	20.0	21	142	468.0	426.0
IPE 500 V	129	514	204	14.2	23.0	21	164	468.0	426.0
IPE 500 A	92.1	547	210	9.0	15.7	24	117	515.6	467.6
IPE 500	105	550	210	11.1	17.2	24	134	515.6	467.6
IPE 500 O	123	556	212	12.7	20.2	24	156	515.6	467.6
IPE 500 R	134	560	210	14.0	22.2	24	170	515.6	467.6
IPE 500 V	159	566	216	17.1	25.2	24	202	515.6	467.6
IPE 600 A	108	597	220	9.8	17.5	24	137	562.0	514.0
IPE 600	122	600	220	12.0	19.0	24	156	562.0	514.0
IPE 600 O	154	610	224	15.0	24.0	24	197	562.0	514.0
IPE 600 R	144	608	218	14.0	23.0	24	184	562.0	514.0
IPE 600 V	184	618	228	18.0	28.0	24	234	562.0	514.0
IPE 750 X 137	137	753	263	11.5	17.0	17	175	719.0	685.0
IPE 750 X 147	147	753	265	13.2	17.0	17	187	719.0	685.0
IPE 750 X 161	160	758	266	13.8	19.3	17	204	719.4	685.4
IPE 750 X 173	173	762	267	14.4	21.6	17	221	718.8	684.8
IPE 750 X 185	185	766	267	14.9	23.6	17	236	718.8	684.8
IPE 750 X 196	196	770	268	15.6	25.4	17	251	719.2	685.2
IPE 750 X 210	210	775	268	16.0	28.0	17	268	719.0	685.0
IPE 750 X 22	222	778	269	17.0	29.5	17	283	719.0	685.0



STANDARD DIMENSIONAL PROGRAM

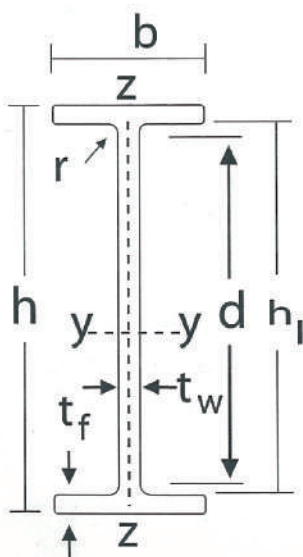
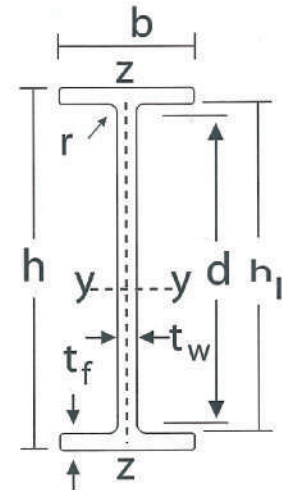
Designation	Weight per Metre G kg/m	Depth of Section h mm	Width of Section b mm	Thickness Web t _w mm	Thickness Flange t _f mm	Radius of the Root Fillet r mm	Area of Section A cm ²	Inner Depth between Flanges h ₁ mm	Inner Depth between Flanges d mm
HE 100 AA	12.2	91	100	4.2	5.5	12	15.6	80	56
HE 100 A	16.7	96	100	5.0	8.0	12	21.2	80	56
HE 100 B	20.4	100	100	6.0	10.0	12	26.0	80	56
HE 120 AA	14.6	109	120	4.2	5.5	12	18.6	98	74
HE 120 A	19.9	114	120	5.0	8.0	12	25.3	98	74
HE 120 B	26.7	120	120	6.5	11.0	12	34.0	98	74
HE 140 AA	18.1	128	140	4.3	6.0	12	23.0	116	92
HE 140 A	24.7	133	140	5.5	8.5	12	31.4	116	92
HE 140 B	33.7	140	140	7.0	12.0	12	43.0	116	92
HE 160 AA	23.8	148	160	4.5	7.0	15	30.4	134	104
HE 160 A	30.4	152	160	6.0	9.0	15	38.8	134	104
HE 160 B	42.6	160	160	8.0	13.0	15	54.3	134	104
HE 160 M	76.2	180	166	14.0	23.0	15	97.1	134	104
HE 180 AA	28.7	167	180	5.0	7.0	15	36.5	152	122
HE 180 A	35.5	171	180	6.0	9.5	15	45.3	152	122
HE 180 B	51.2	180	180	8.5	14.0	15	65.3	152	122
HE 180 M	88.9	200	186	14.5	24.0	15	113	152	122
HE 200 AA	34.6	186	200	5.5	8.0	18	44.1	170	134
HE 200 A	42.3	190	200	6.5	10.0	18	53.8	170	134
HE 200 B	61.3	200	200	9.0	15.0	18	78.1	170	134
HE 200 M	103	220	206	15.0	25.0	18	131	170	134
HE 220 AA	40.4	205	220	6.0	8.5	18	51.5	188	152
HE 220 A	50.5	210	220	7.0	11.0	18	64.3	188	152
HE 220 B	71.5	220	220	9.5	16.5	18	91.0	188	152
HE 220 M	117	240	226	15.5	26.0	18	149	188	152
HE 240 AA	47.4	224	240	6.5	9.0	21	60.4	206	164
HE 240 A	60.3	230	240	7.5	12.0	21	76.8	206	164
HE 240 B	83.2	240	240	10.0	17.0	21	106	206	164
HE 240 M	157	270	248	18.0	32.0	21	200	206	164
HE 260 AA	54.1	224	260	6.5	9.5	24	69.0	225	117
HE 260 A	68.2	250	260	7.5	12.5	24	86.8	225	117
HE 260 B	93.0	260	260	10.0	17.5	24	118	225	117
HE 260 M	172	290	268	18.0	32.5	24	220	225	117



Specification - As Per ASTM A 36 / EN 10025 S275JR

STANDARD DIMENSIONAL PROGRAM

Designation	G	h	b	t _w	t _f	r	A	I _y	d
	kg/m	mm	mm	mm	mm	mm	cm ²	mm	mm
HE 280 AA	61.2	264	280	7.0	10.0	24	78	244	196
HE 280 A	76.4	270	280	8.0	13.0	24	97.3	244	196
HE 280 B	103	280	280	10.5	18.0	24	131	244	196
HE 280 M	189	310	288	18.5	33.0	24	240	244	196
HE 300 AA	69.8	283	300	7.5	10.5	27	88.9	262	208
HE 300 A	88.3	290	300	8.5	14.0	27	113	262	208
HE 300 B	117	300	300	11.0	19.0	27	149	262	208
HE 300 C	177	320	305	16.0	29.0	27	225	262	208
HE 300 M	238	340	310	21.0	39.0	27	303	262	208
HE 320 AA	74.2	301	300	8.0	11.0	27	94.6	279	225
HE 320 A	97.6	310	300	9.0	15.5	27	124	279	225
HE 320 B	127	320	300	11.5	20.5	27	161	279	225
HE 320 M	245	359	309	21.0	40.0	27	312	279	225
HE 340 AA	78.9	320	300	8.5	11.5	27	101	297	243
HE 340 A	105	330	300	9.5	16.5	27	133	297	243
HE 340 B	134	340	300	12.0	21.5	27	171	297	243
HE 340 M	248	377	309	21.0	40.0	27	316	297	243
HE 360 AA	83.7	339	300	9.0	12.0	27	107	315	261
HE 360 A	112	350	300	10.0	17.5	27	143	315	261
HE 360 B	142	360	300	12.5	22.5	27	181	315	261
HE 360 M	250	395	308	21.0	40.0	27	319	315	261
HE 400 AA	92.4	378	300	9.5	13.0	27	118	352	298
HE 400 X 107	107	384	297	10.0	16.0	27	136	352	298
HE 400 A	125	390	300	11.0	19.0	27	159	352	298
HE 400 B	155	400	300	13.5	24.0	27	198	352	298
HE 400 M	256	432	307	21.0	40.0	27	326	352	298
HE 450 AA	100	425	300	10.0	13.5	27	127	398	344
HE 450 X 123	123	435	300	10.2	18.5	27	158	398	344
HE 450 A	140	440	300	11.5	21.0	27	178	398	344
HE 450 B	171	450	300	14.0	26.0	27	218	398	344
HE 450 M	263	478	307	21.0	40.0	27	335	398	344
HE 500 A A	107	472	300	10.5	14.0	27	137	444	390
HE 500 A	155	490	300	12.0	23.0	27	198	444	390
HE 500 B	187	500	300	14.5	28.0	27	239	444	390
HE 500 M	270	524	306	21.0	40.00	27	344	444	390



STANDARD DIMENSIONAL PROGRAM

Designation	G	h	b	t _w	t _f	r	A	I _y	d
	kg/m	mm	mm	mm	mm	mm	cm ²	mm	mm
HE 550 AA	120	522	300	11.5	15.0	27	153	492	438
HE 550 A	166	540	300	12.5	24.5	27	212	492	438
HE 550 B	199	550	300	15.0	29.0	27	254	492	438
HE 550 M	278	572	306	21.0	40.0	27	354	492	438
HE 600 AA	129	571	300	12.0	15.0	27	164	540	486
HE 600 x 137	137	525	300	11.8	17.5	27	175	540	486
HE 600 X 151	151	582	300	11.6	20.6	27	193	540	486
HE 600 x 174	174	588	300	13.6	23.9	27	223	540	486
HE 600 A	178	590	300	13.0	25.0	27	226	540	486
HE 600 B	212	600	300	15.5	30.0	27	270	540	486
HE 600 M	293	668	306	21.0	40.0	27	364	540	486
HE 650 AA	138	620	300	12.5	16.0	27	176	588	534
HE 650 A	190	640	300	11.5	26.0	27	242	588	534
HE 650 B	225	650	300	16.0	31.0	27	286	588	534
HE 650 M	293	668	305	21.0	40.0	27	374	588	534
HE 700 AA	150	670	300	13.0	17.0	27	191	636	582
HE 700 x 166	166	678	300	12.5	21.0	27	212	636	582
HE 700 A	204	690	300	14.5	27.0	27	260	636	582
HE 700 B	241	700	300	17.0	32.0	27	306	636	582
HE 700 M	301	716	304	21.0	40.0	27	383	636	582
HE 800 AA	172	770	300	14.0	18.0	30	218	734	674
HE 800 A	224	790	300	15.0	28.0	30	286	734	674
HE 800 B	262	800	300	17.5	33.0	30	334	734	674
HE 800 M	317	814	303	21.0	40.0	30	404	734	674
HE 900 AA	198	870	300	15.0	20.0	30	252	830	770
HE 900 A	252	890	300	16.5	30.0	30	321	830	770
HE 900 B	291	900	300	18.5	35.0	30	371	830	770
HE 900 M	333	910	302	21.0	40.0	30	424	830	770
HE 1000 AA	222	970	300	16.0	21.0	30	282	928	868
HE 1000 A	272	990	300	16.5	31.0	30	347	928	868
HE 1000 B	314	1000	300	19.5	36.0	30	400	928	868
HE 1000 M	349	1008	302	21.0	40.0	30	444	928	868

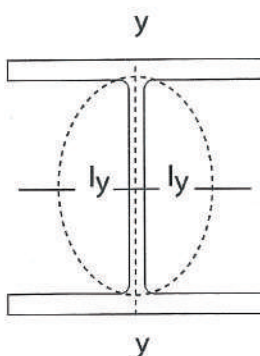
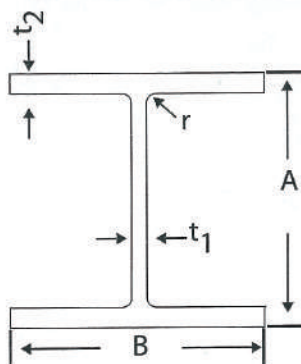
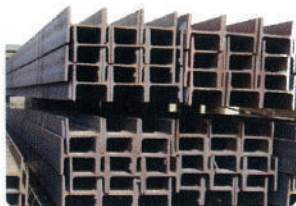
Specification - As Per JIS G3101 SS400 /ASTM A36 /EN 10025 S275 JR

STANDARD DIMENSIONAL PROGRAM

Size	Weight	Depth of Section (A)	Flange Width (B)	Thickness		Corner Radius (r)	Sectional Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
				Web (t ₁)	Web (t ₂)			J _x	J _y	t _x	t _y	z _x	z _y
mm	kg/m	mm	mm	mm	mm	mm	cm	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
100X100	17.2	100	100	6	8	10	21.90	383	134	4.18	2.47	76.5	26.7
125X125	23.8	125	125	6.5	9	10	30.31	847	293	5.29	3.11	136	47.0
150X150	31.5	150	150	7	10	11	40.14	1,640	563	6.39	3.75	219	75.1
200X200	56.2	200	204	12	12	13	71.53	4980	1700	8.35	4.88	498	167
	65.7	208	202	10	16	13	83.69	6530	2200	8.83	5.13	628	218
250X250	64.4	244	252	11	11	16	82.06	8790	2940	10.3	5.98	720	233
	66.5	248	249	8	13	16	84.70	9930	3350	10.8	6.29	801	269
	72.4	250	250	9	14	16	92.18	10800	3650	10.8	6.29	867	292
	82.2	250	255	14	14	16	104.7	11500	3880	10.5	6.09	919	304
300X300	84.5	294	302	12	12	18	107.7	16900	5520	12.5	7.16	1150	365
	87.0	298	299	9	14	18	110.8	18800	6240	13.0	7.51	1270	417
	94.0	300	300	10	15	18	119.8	20400	6750	13.1	7.51	1360	450
	106	300	305	15	15	18	134.8	21500	7100	12.6	7.26	1440	466
	106	304	301	11	17	18	134.8	23400	7730	13.2	7.57	1540	514
350X350	106	338	351	13	13	20	135.3	28,200	9,380	14.4	8.33	1,670	534
	115	344	348	10	16	20	146.0	33,300	11,200	15.1	8.78	1,940	646
	131	344	354	16	16	20	166.6	35,300	11,800	14.6	8.43	2,050	669
	137	350	350	12	19	20	173.9	40,300	13,600	15.2	8.84	2,300	776
	156	350	357	19	19	20	198.4	42,800	14,400	14.7	8.53	2,450	809
	159	356	352	14	22	20	202.2	47,600	16,000	15.3	8.90	2,670	909
400X400	140	388	402	15	15	22	178.5	49,000	16,300	16.6	9.54	2,520	809
	147	394	398	11	18	22	186.8	56,100	18,900	17.3	10.1	2,850	951
	168	394	405	18	18	22	214.1	59,700	20,000	16.7	9.65	3,030	985
	172	400	400	13	21	22	218.7	66,600	22,400	17.5	10.1	3,330	1,120
	197	400	408	21	21	22	250.7	70,900	23,800	16.8	9.75	3,540	1,170
	200	406	403	16	24	22	254.9	78,000	26,200	17.5	10.1	3,840	1,300
	232	414	405	18	28	22	295.4	92,800	31,000	17.7	10.2	4,480	1,530
	283	428	407	20	35	22	360.7	119,000	39,400	18.2	10.4	5,570	1,930
	415	458	417	30	50	22	528.6	187,000	60,500	18.8	10.7	8,170	2,900
	605	498	432	45	70	22	770.1	298,000	94,400	19.7	11.1	12,000	4,370

STANDARD DIMENSIONAL PROGRAM

Size	Weight	Depth of Section (A)	Flange Width (B)	Thickness		Corner Radius (r)	Sectional Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
				Web (t ₁)	Web (t ₂)			J _x	J _y	t _x	t _y	z _x	z _y
mm	kg/m	mm	mm	mm	mm	mm	cm	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
100 X 50	9.30	100	50	5	7	8	11.85	187	14.8	3.98	1.12	37.5	5.91
125 X 60	13.2	125	60	6	8	9	16.84	413	29.2	4.95	1.32	66.1	9.73
150 X 75	14.0	150	75	5	7	8	17.85	666	49.5	6.11	1.66	88.8	13.2
150 X 100	21.1	148	100	6	9	11	26.84	1,020	151	6.17	2.37	138	30.1
175 X 90	18.1	175	90	5	8	9	23.04	1,210	97.5	7.26	2.06	139	21.7
175 X 175	40.2	175	175	7.5	11	12	51.21	2,880	984	7.50	4.38	330	112
200 X 100	18.2	198	99	4.5	7	11	23.18	1,580	114	8.26	2.21	160	23.0
	21.3	200	100	5.5	8	11	27.6	1,840	134	8.24	2.22	184	26.8
200 X 150	30.6	194	150	6	9	13	39.01	2,690	507	8.30	3.61	277	67.6
	49.9	200	200	8	12	13	63.53	4,720	1,600	8.62	5.02	472	160
250 X 125	25.7	248	124	5	8	12	32.68	3,540	255	10.4	2.79	285	411
	29.6	250	125	6	9	12	37.66	4,050	294	10.4	2.79	324	47.0
250 X 175	44.1	244	175	7	11	16	56.24	6,120	984	10.4	4.18	502	113
300 X 150	32.0	298	149	5.5	8	13	40.80	6,320	442	12.4	3.29	424	59.3
	36.7	300	150	6.5	9	13	46.38	7,210	508	12.4	3.29	481	67.7
300 X 200	56.8	294	200	8	12	18	72.38	11,300	1,600	12.5	4.71	771	160
	65.4	298	201	9	14	18	82.36	13,300	1,900	12.6	4.77	893	189
305 X 175	41.4	346	174	6	9	14	52.7	11,100	792	14.5	3.88	641	91.0
	49.6	350	175	7	11	14	63.1	13,600	984	14.7	3.95	775	112
350 X 250	69.2	336	249	8	12	20	88.1	18,500	3,090	14.5	5.92	1,100	248
	79.7	340	250	9	14	20	101.15	21,700	3,650	14.6	6.00	1,280	292
400 X 200	56.6	396	199	7	11	16	72.16	20,000	1,450	16.7	4.48	1,010	145
	66.0	400	200	8	13	16	84.12	23,700	1,710	16.8	4.54	1,190	174
400 X 300	94.3	386	299	9	14	22	120.1	33,700	6,240	16.7	7.81	1,740	418
	107	390	300	10	16	22	136.0	38,700	7,210	16.9	7.28	1,980	481
450 X 200	66.2	446	199	8	12	18	84.3	28,700	1,580	18.5	4.33	1,290	159
	76.0	450	200	9	14	18	96.76	33,500	1,870	18.6	4.40	1,490	187



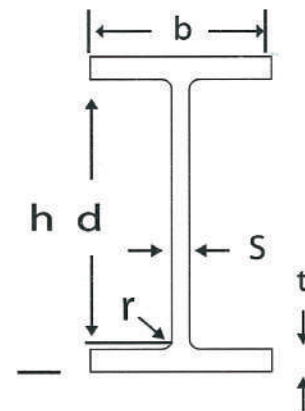
STANDARD DIMENSIONAL PROGRAM

Size	Weight	Depth of Section (A)	Flange Width (B)	Thickness		Corner Radius (r)	Sectional Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
				Web (t ₁)	Web (t ₂)			J _x	J _y	r _x	r _y	z _x	z _y
mm	kg/m	mm	mm	mm	mm	mm	cm	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
450 X 300	106	434	299	10	15	24	135.0	46,800	6,690	18.6	7.04	2,160	448
	124	440	300	11	18	24	157.4	56,100	8,110	18.9	7.18	2,550	541
500 X 200	79.5	496	199	9	14	20	101.3	41,900	1,840	20.3	4.27	1,690	185
	89.6	500	200	10	16	20	114.2	47,800	2,140	20.5	4.33	1,910	214
	103	506	201	11	19	20	131.3	56,500	2580	20.7	4.43	2,230	257
500 x 300	114	482	300	11	15	26	145.5	60,400	6,760	20.4	6.82	2,500	451
	128	488	300	11	18	26	163.5	71,000	8,110	20.8	7.04	2,910	541
600 x 200	94.6	596	199	10	15	22	120.5	68,700	1,980	23.9	4.05	2,310	199
	106	600	200	11	17	22	134.4	77,600	2,280	24.0	4.12	2,590	228
	120	606	201	12	20	22	152.5	90,400	2,720	24.3	4.22	2,980	271
	134	612	202	13	23	22	107.7	103,000	3,180	24.6	4.31	3,380	314
600 x 300	137	582	300	12	17	28	174.5	103,000	7,670	24.3	6.63	3,530	511
	151	588	300	12	20	28	192.5	118,000	9,020	24.8	6.85	4,020	601
	175	594	302	14	23	28	22.4	137,000	10,600	24.9	6.90	4,620	701
700 X 300	166	692	300	13	20	28	211.5	172,000	9,020	28.6	6.53	4,980	602
	185	700	300	13	24	28	235.5	201,000	10,800	29.3	6.78	5,760	722
	215	708	302	15	28	28	273.6	237,000	12,900	29.4	6.89	6,700	853
800 X 300	191	792	300	14	22	28	243.4	254,000	9,930	32.0	6.39	6,410	662
	210	800	300	14	26	28	267.4	292,000	11,700	33.0	6.62	7,290	782
	241	808	302	16	30	28	307.6	339,000	13,800	33.2	6.70	8,400	915
900 X 300	213	890	299	15	23	28	270.9	345,000	10,300	35.7	6.16	7,760	688
	243	900	300	16	28	28	309.8	411,000	12,600	36.4	6.39	9,140	843
	286	912	302	18	34	28	364.0	498,000	15,700	37.0	6.56	10,900	1,040

Specification - As Per EN 10025 S275JR / BS 4360 GR 43 A

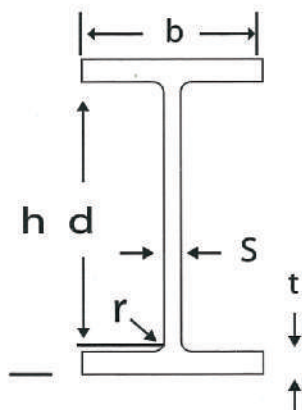
STANDARD DIMENSIONAL PROGRAM

Designation	Mass per metre kg/m	Depth of Section h mm	Depth of Section b mm	Thickness Web s mm	Thickness Flange t mm	Root Radius r mm	Depth between Fillets d mm	Radius for Local Bending	
								Flange b/2t	Web d/s
127 x 76 x 13	13.0	127.0	76.0	4.0	7.6	7.6	96.6	5.00	24.1
152 x 89 x 16	16.0	152.4	88.7	4.5	7.7	7.6	121.8	5.76	27.1
178 x 102 x 19	19.0	177.0	101.2	4.8	7.9	7.6	146.8	6.41	30.6
203 x 102 x 23	23.1	203.2	101.8	5.4	9.3	7.6	169.4	5.47	31.4
203 x 133 x 25	25.1	203.2	133.2	5.7	7.8	7.6	172.4	8.54	30.2
203 x 133 x 30	30.0	206.8	133.9	6.4	9.6	7.6	172.4	6.97	26.9
254 x 102 x 22	22.0	254.0	101.6	5.7	6.8	7.6	225.2	7.47	39.5
254 x 102 x 25	25.2	257.2	101.9	6.0	8.4	7.6	225.2	6.07	37.5
254 x 102 x 28	28.3	260.4	102.2	6.3	10.0	7.6	225.2	5.11	35.7
254 x 146 x 31	31.1	251.4	146.1	6.0	8.6	7.6	219.0	8.49	36.5
254 x 146 x 37	37.0	256.0	146.4	6.3	10.9	7.6	219.0	6.72	34.8
254 x 146 x 43	43.0	259.6	147.3	7.2	12.7	7.6	219.0	5.80	30.4
305 x 127 x 37	37.0	304.4	123.3	7.1	10.7	8.9	265.2	5.77	37.4
305 x 127 x 42	41.9	307.2	124.3	8.0	12.1	8.9	265.2	5.14	33.2
305 x 127 x 48	48.1	311.0	125.3	9.0	14.0	8.9	265.2	4.47	29.5
305 x 165 x 40	40.3	303.4	165.0	6.0	10.2	8.9	265.2	8.09	44.2
305 x 165 x 46	46.1	306.6	165.7	6.7	11.8	8.9	265.2	7.02	39.6
305 x 165 x 54	54.0	310.4	166.9	7.9	13.7	8.9	265.2	6.09	33.6
356 x 127 x 33	33.1	349.0	125.4	6.0	8.5	10.2	311.6	7.38	51.9
356 x 127 x 39	39.1	353.4	126.0	6.6	10.7	10.2	311.6	5.89	47.2



STANDARD DIMENSIONAL PROGRAM

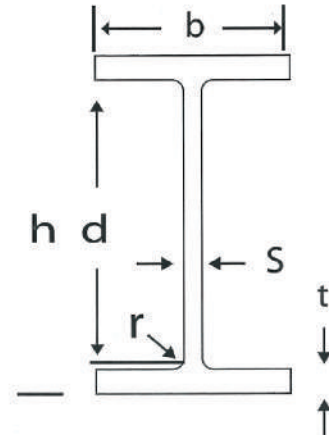
Designation	Mass per metre kg/m	Depth of Section h mm	Depth of Section b mm	Thickness Web s mm	Thickness Flange t mm	Root Radius r mm	Depth between Fillets d mm	Radius for Local Bending	
								Flange b/2t	Web d/s
356 x 171 x 45	45.0	351.4	171.1	7.0	9.7	10.2	311.6	8.82	44.5
356 x 171 x 51	51.0	355.0	171.5	7.4	11.5	10.2	311.6	7.46	42.1
356 x 171 x 57	57.0	358.0	172.2	8.1	13.0	10.2	311.6	6.62	38.5
356 x 171 x 67	67.1	363.4	173.2	9.1	15.7	10.2	311.6	5.52	34.2
406 x 140 x 39	39.0	398.0	141.8	6.4	8.6	10.2	360.4	8.24	56.3
406 x 140 x 46	46.0	403.2	142.2	6.8	11.2	10.2	360.4	6.35	53.0
406 x 178 x 54	54.0	402.6	177.7	7.7	10.9	10.2	360.4	8.15	46.8
406 x 178 x 60	60.1	406.4	177.9	7.9	12.8	10.2	360.4	6.95	45.6
406 x 178 x 67	67.1	409.4	178.8	8.8	14.3	10.2	360.4	6.25	41.0
406 x 178 x 74	74.2	412.8	179.5	9.5	16.0	10.2	360.4	5.61	37.9
457 x 152 x 52	52.3	449.8	152.4	7.6	10.9	10.2	407.6	6.99	53.6
457 x 152 x 60	59.8	454.6	152.9	8.1	13.3	10.2	407.6	5.75	50.3
457 x 152 x 67	67.2	458.0	153.8	9.0	15.0	10.2	407.6	5.13	45.3
457 x 152 x 74	74.2	462.0	154.4	9.6	17.0	10.2	407.6	4.54	42.5
457 x 152 x 82	82.1	465.8	155.3	10.5	18.9	10.2	407.6	4.11	38.8
457 x 191 x 67	67.1	453.4	189.9	8.5	12.7	10.2	407.6	8.48	48.0
457 x 191 x 74	74.3	457.0	190.4	9.0	14.5	10.2	407.6	6.57	45.3
457 x 191 x 82	82.0	460	191.3	9.9	16.0	10.2	407.6	5.98	41.2
457 x 191 x 89	89.3	463.4	191.9	10.5	17.7	10.2	407.6	5.42	38.8
457 x 191 x 98	98.3	467.2	192.8	11.4	19.6	10.2	407.6	4.92	35.8
533 x 210 x 82	82.2	528.3	208.8	9.6	13.2	12.7	476.5	7.91	49.6
533 x 210 x 92	92.1	533.1	209.3	10.1	15.6	12.7	476.5	6.71	47.2
533 x 210 x 101	101.0	536.7	210.0	10.8	17.4	12.7	476.5	6.03	44.1
533 x 210 x 109	109.0	539.5	210.8	11.6	18.8	12.7	476.5	5.61	41.1
533 x 210 x 122	122.0	544.5	211.9	12.7	21.3	12.7	476.5	4.97	37.5
610 x 229 x 101	101.2	602.6	227.6	10.5	14.8	12.7	547.6	7.69	52.2
610 x 229 x 113	113.0	607.6	228.2	11.1	17.3	12.7	547.6	6.60	49.3
610 x 229 x 125	125.1	612.2	229.0	11.9	19.6	12.7	547.6	5.84	46.0
610 x 229 x 140	139.9	617.2	230.2	13.1	22.1	12.7	547.6	5.21	41.8



Specification - As Per EN 10025 S275JR / BS 4360 GR 43 A

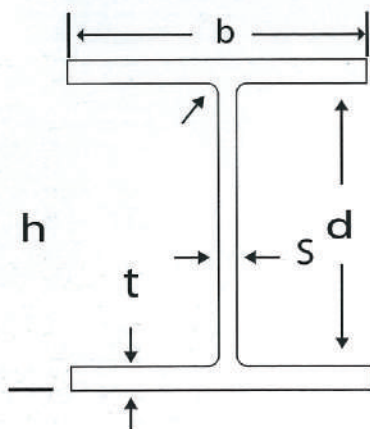
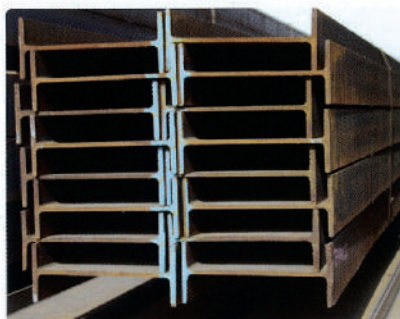
STANDARD DIMENSIONAL PROGRAM

Designation	Mass per metre kg/m	Depth of Section h mm	Depth of Section b mm	Thickness Web s mm	Thickness Flange t mm	Root Radius r mm	Depth between fillets d mm	Radius for Local Buckling	
								Flange b/2t	Web d/s
610 x 305 x 149	149.1	612.4	304.8	11.8	19.7	16.5	540.0	7.74	45.8
610 x 305 x 179	179.0	620.2	307.1	14.1	23.6	16.5	540.0	6.51	38.3
610 x 305 x 238	238.1	635.8	311.4	18.4	31.4	16.5	540.0	4.96	29.3
686 x 254 x 125	125.2	677.9	253.0	11.7	16.2	15.2	615.1	7.81	52.6
686 x 254 x 140	140.1	683.5	253.7	12.4	19.0	15.2	615.1	6.68	49.6
686 x 254 x 152	152.4	687.5	254.5	13.2	21.0	15.2	615.1	6.06	46.6
686 x 254 x 170	170.2	692.9	255.8	14.5	23.7	15.2	615.1	5.40	42.4
762 x 267 x 134	133.9	750.0	264.4	12.0	15.5	16.5	686.0	8.53	57.2
762 x 267 x 147	146.9	754.0	265.2	12.8	17.5	16.5	686.0	7.58	53.6
762 x 267 x 173	173.0	762.2	266.7	14.3	21.6	16.5	686.0	6.17	48.0
762 x 267 x 197	196.8	769.8	268.0	15.6	25.4	16.5	686.0	5.28	44.0
838 x 292 x 176	175.9	834.9	291.7	14.0	18.8	17.8	761.7	7.76	54.4
838 x 292 x 194	193.8	840.7	292.4	14.7	21.7	17.8	761.7	6.74	51.8
838 x 292 x 226	226.5	850.9	293.8	16.1	26.8	17.8	761.7	5.48	47.3
914 x 305 x 201	200.9	903.0	303.3	15.1	20.2	19.1	824.4	7.51	54.6
914 x 305 x 224	224.2	910.4	304.1	15.9	23.9	19.1	824.4	6.36	51.8
914 x 305 x 253	253.4	918.4	305.5	17.3	27.9	19.1	824.4	5.47	47.7
914 x 305 x 289	289.1	926.6	307.7	19.5	32.0	19.1	824.4	4.81	42.3
914 x 419 x 343	343.3	911.8	418.5	19.4	32.0	24.1	799.6	6.54	41.2
914 x 419 x 388	388.0	921.0	420.5	21.4	36.6	24.1	799.6	5.74	37.4
1016 x 305 x 222	222.0	970.3	300.0	16.0	21.1	30.0	867.8	7.11	54.4
1016 x 305 x 249	249.0	980.2	300.0	16.5	26.0	30.0	868.0	5.77	52.7
1016 x 305 x 272	272.0	990.1	300.0	16.5	31.0	30.0	868.0	4.84	52.7
1016 x 305 x 314	314.0	1000.0	300.0	19.1	35.9	30.0	868.2	4.18	45.6
1016 x 305 x 349	349.0	1008.1	302.0	21.1	40.0	30.0	868.0	3.78	41.2
1016 x 305 x 393	393.0	1016.0	303.0	24.4	43.9	30.0	868.2	3.45	35.7
1016 x 305 x 438	438.0	1025.9	305.4	26.9	49.0	30.0	868.0	3.12	32.3
1016 x 305 x 487	487.0	1036.1	308.5	30.0	54.1	30.0	867.8	2.85	29.0



STANDARD DIMENSIONAL PROGRAM

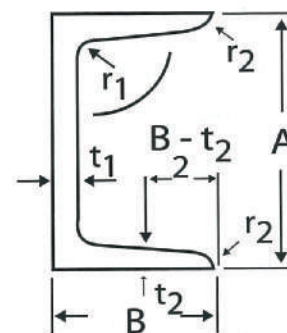
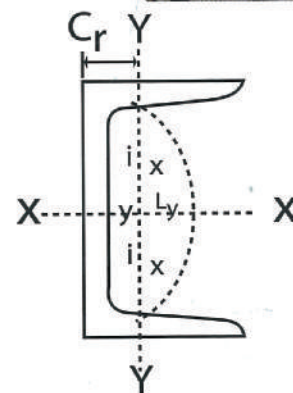
Designation	Mass per metre kg/m	Depth of Section h mm	Depth of Section b mm	Thickness Web s mm	Thickness Flange t mm	Root Radius r mm	Depth between fillets d mm	Radius for Local Buckling	
								Flange b/2t	Web d/s
152 x 152 x 23	23.0	152.4	152.2	5.8	6.8	7.6	123.6	11.2	21.3
152 x 152 x 30	30.0	157.6	152.9	6.5	9.4	7.6	123.6	8.13	19.0
152 x 152 x 37	37.0	161.8	154.4	8.0	11.5	7.6	123.6	6.71	15.4
203 x 203 x 46	46.1	203.2	203.6	7.2	11.0	10.2	160.8	9.25	22.3
203 x 203 x 52	52.0	206.2	204.3	7.9	12.5	10.2	160.8	8.17	20.4
203 x 203 x 60	60.0	209.6	205.8	9.4	14.2	10.2	160.8	7.25	17.1
203 x 203 x 71	71.0	215.8	206.4	10.0	17.3	10.2	160.8	5.97	16.1
203 x 203 x 86	86.1	222.2	209.1	12.7	20.5	10.2	160.8	5.10	12.7
254 x 254 x 73	73.1	254.1	254.6	8.6	14.2	12.7	200.3	8.96	23.3
254 x 254 x 89	88.9	260.3	256.3	10.3	17.3	12.7	200.3	7.41	19.4
254 x 254 x 107	107.1	266.7	258.8	12.8	20.5	12.7	200.3	6.31	15.6
254 x 254 x 132	132.0	276.3	261.3	15.3	25.3	12.7	200.3	5.16	13.1
254 x 254 x 167	167.1	289.1	265.2	19.2	31.7	12.7	200.3	4.18	10.4
305 x 305 x 97	96.9	307.9	305.3	9.9	15.4	15.2	246.7	9.91	24.9
305 x 305 x 118	117.9	314.5	307.4	12.0	18.7	15.2	246.7	8.22	20.6
305 x 305 x 137	136.9	320.5	309.2	13.8	21.7	15.2	246.7	7.12	17.9
305 x 305 x 158	158.1	327.1	311.2	15.8	25.0	15.2	246.7	6.22	15.6
305 x 305 x 198	198.1	339.9	314.5	19.1	31.4	15.2	246.7	5.01	12.9
305 x 305 x 240	240.0	352.5	318.4	23.0	37.7	15.2	246.7	4.22	10.7
305 x 305 x 283	282.9	365.3	322.2	26.8	44.1	15.2	246.7	3.65	9.21
356 x 368 x 129	129.0	355.6	368.6	10.4	17.5	15.2	290.2	10.5	27.9
356 x 368 x 153	152.9	362.0	370.5	12.3	20.7	15.2	290.2	8.95	23.6
356 x 368 x 177	177.0	368.2	372.6	14.4	23.8	15.2	290.2	7.83	20.2
356 x 368 x 202	201.9	374.6	374.7	16.5	27.0	15.2	290.2	6.94	17.6
356 x 406 x 235	235.1	381.0	394.8	18.4	30.2	15.2	290.2	6.54	15.8
356 x 406 x 287	287.1	393.6	399.0	22.6	36.5	15.2	290.2	5.47	12.8
356 x 406 x 340	339.9	406.4	403.0	26.6	42.9	15.2	290.2	4.70	10.9
356 x 406 x 393	393.0	419.0	407.0	30.6	49.2	15.2	290.2	4.14	9.48
356 x 406 x 467	467.0	436.6	412.2	35.8	58.0	15.2	290.2	3.55	8.11
356 x 406 x 551	551.0	455.6	418.5	42.1	67.5	15.2	290.2	3.10	6.89
356 x 406 x 634	633.9	474.6	424.0	47.6	77.0	15.2	290.2	2.75	6.10



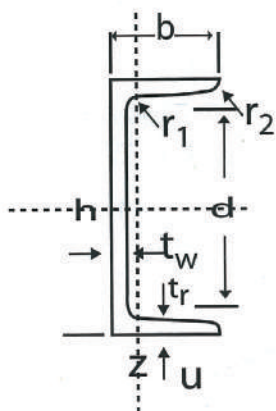
JIS CHANNEL - Specification - JIS G3101 - SS400 / ASTM A36 / EN 10025 S275JR

STANDARD DIMENSIONAL PROGRAM

Size	Weight	Thickness		Corner Radius		Sectional Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
		Web (t ₁)	Web (t ₂)	r ₁	r ₂		J _x	J _y	t _x	t _y	z _x	z _y
mm	kg/m	mm	mm	mm	mm	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
75X40X5	6.92	5	7	8	4	8.818	75.9	12.4	2.93	1.19	20.2	4.54
100X50X5	9.36	5	7.5	8	4	11.92	189	26.9	3.98	1.50	37.8	7.82
125X65X6	13.4	6	8	8	4	17.11	425	65.5	4.99	1.96	68.0	14.4
150X75X6.5	18.6	6.5	10	10	5	23.71	864	122	6.04	2.27	115	23.6
150X75X9	24.0	9	12.5	15	7.5	30.59	1060	151	5.87	2.22	141	29.1
180X75X7	21.4	7	10.5	11	5.5	27.20	1380	137	7.13	2.24	154	25.5
180X90X7.5	27.1	7.5	12.5	13	6.5	34.57	1840	258	7.29	2.73	204	42.0
200X80X7.5	24.6	7.5	11	12	6	31.33	1950	177	7.89	2.38	195	30.8
200X90X8	30.3	8	13.5	14	7	38.65	2490	286	8.03	2.72	249	45.9
230X80X8	28.4	8	12	13	6.5	36.12	2900	200	8.96	2.35	252	34.2
230X90X8.5	33.1	8.5	13.5	15	7.5	42.14	3490	303	9.10	2.68	304	47.3
250X80X8	30.2	8	12.5	14	7	38.51	3630	210	9.71	2.34	291	35.7
250X90X9	34.6	9	13	14	7	44.07	4180	306	9.74	2.64	335	46.5
250X90X11	40.2	11	14.5	17	8.5	51.17	4690	342	9.57	2.58	375	51.7
280X100X9	38.8	9	13	14	7	49.37	5930	428	11.0	2.95	423	58.2
280X100X11.5	48.2	11.5	16	18	9	61.37	7150	515	10.8	2.90	510	70.4
300X90X9	38.1	9	12	14	7	48.57	6440	325	11.5	2.59	429	48.0
300X100X10.5	54.5	10.5	16	18	9	69.39	14500	557	14.5	2.83	762	73.3
380X100X13	62.0	13	6.5	18	9	78.96	15600	584	14.1	2.72	822	75.8



UPN CHANNEL - Specification - JIS G3101 - SS400 / ASTM A36 / EN 10025 S275JR

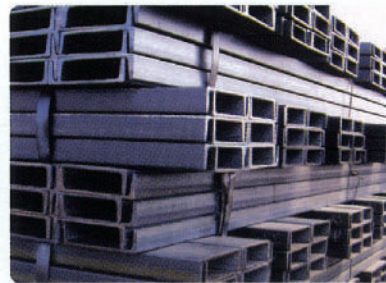
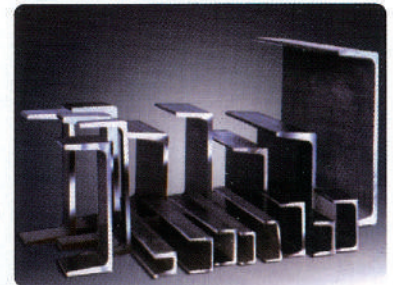
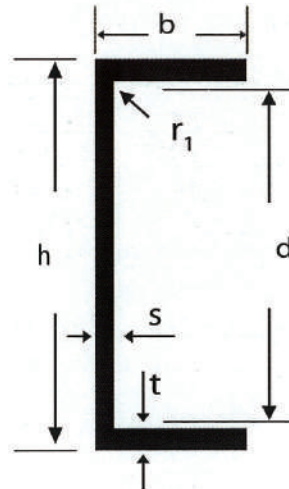


Designation	G kg/m	Dimensions				r ₁ mm	r ₂ mm	A cm	Dimensions for detailing				Surface	
		h mm	b mm	t _w mm	t _f mm				d mm	0	e _{min} mm	e _{max} mm	A _L m ² /m	A _g m ² /t
UPN 80	08.64	80	45	6.0	8.0	8.0	4.00	11.0	46		-	-	0.312	36.13
UPN 100	10.60	100	50	6.0	8.5	8.5	4.50	13.5	64	M10	31	34	0.372	35.1
UPN 120	13.40	120	55	7.0	9.0	9.0	4.50	17.0	82	M10	32	39	0.434	32.52
UPN 140	16.00	140	60	7.0	10.0	10.0	5.00	20.4	98	M12	37	41	0.489	30.54
UPN 160	18.80	160	65	7.5	10.5	10.5	5.50	24.0	115	M16	38	38	0.546	28.98
UPN 180	22.00	180	70	8.0	11.0	11.0	5.50	28.0	133	M16	38	43	0.611	27.8
UPN 200	25.30	200	75	8.5	11.5	11.5	6.00	32.2	151	M16	39	48	0.651	26.15
UPN 220	29.40	220	80	9.0	12.5	12.5	6.50	37.4	167	M20	44	47	0.718	24.46
UPN 240	33.20	240	85	9.5	13.0	13.0	6.50	42.3	184	M20	45	52	0.775	23.34
UPN 260	37.90	260	90	10.0	14.0	14.0	7.00	48.3	200	M24	51	51	0.834	22
UPN 280	41.80	280	95	10.0	15.0	15.0	7.50	53.3	216	M24	52	56	0.890	21.27
UPN 300	46.20	300	100	10.0	16.0	16.0	8.00	58.8	232	M24	53	61	0.950	20.58
UPN 320	59.50	320	100	14.0	17.5	17.5	8.75	75.8	246	M24	59	61	0.982	16.5
UPN 350	60.60	350	100	14.0	16.0	16.0	8.00	77.3	282	M24	57	61	1.047	17.25
UPN 380	63.10	380	102	13.5	16.0	16.0	8.00	80.4	313	M24	57	63	1.110	17.59
UPN 400	71.80	400	110	14.0	18.0	18.0	9.00	91.5	324	M27	59	65	1.182	16.46

Parallel Flange Channel - Specification - JIS G3 101 - SS400 /ASTM A36 /EN 10025 S 275 JR

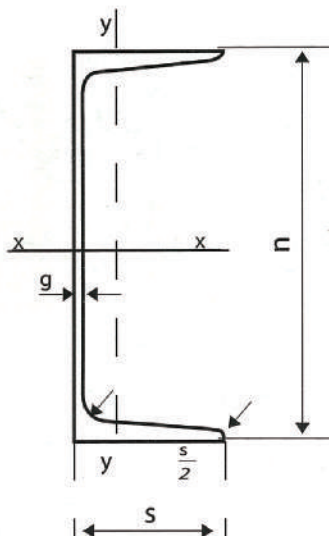
STANDARD DIMENSIONAL PROGRAM

Designation	Mass per meter	Depth of Section h	Width of Section b	Thickness Web s	Thickness Flange t	Distance of Cy	Radius Root r	Depth between fillets d
mm	kg/m	mm	mm	mm	mm	cm	mm	mm
100 X 50	10.20	100	50	5.0	8.5	1.73	9	65
125 X 65	14.80	125	65	5.5	9.5	2.25	12	82
150 X 75	17.90	150	75	5.5	10.0	2.58	12	106
150 X 90	23.90	150	90	6.5	12.0	3.30	12	102
180 X 75	20.30	180	75	6.0	10.5	2.41	12	135
180 X 90	26.10	180	90	6.5	12.5	3.17	12	131
200 X 75	23.40	200	75	6.0	12.5	2.48	12	151
200 X 90	29.70	200	90	7.0	14.0	3.12	12	148
230 X 75	25.70	230	75	6.5	12.5	2.30	12	181
230 X 90	32.20	230	90	7.5	14.0	2.92	12	178
260 X 75	27.60	260	75	7.0	12.0	2.10	12	212
260 X 90	34.80	260	90	8.0	14.0	2.74	12	208
300 X 90	41.40	300	90	9.0	15.5	2.60	12	245
300 X 100	45.50	300	100	9.0	16.5	3.05	15	237
380 X 100	54.00	380	100	9.5	17.5	2.79	15	315
430 X 100	64.40	430	100	11.0	19.0	2.62	15	362



UPE Channel - Specification - JIS G3101 - mSS400 / ASTM A 36 / EN 10025 S 275 JR

STANDARD DIMENSIONAL PROGRAM



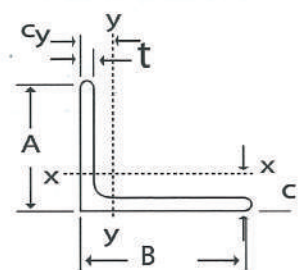
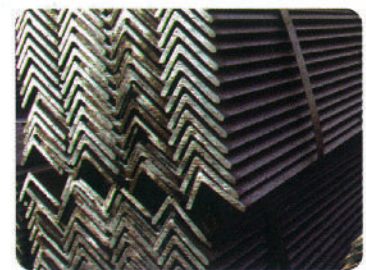
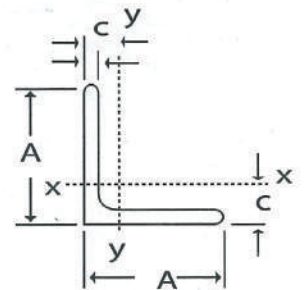
Designation	Dimension						Sectional area	Mass of 1m	Statical Values					
	h	s	g	t	r	r ₁			cm ²	Kg	lx	ly	Wx	Wy
											cm ²	cm ³		
80 E	80	40	4,6	7,4	6,4	2,5	9,0	7,1	89	12,8	22,4	4,75		
100 E	100	46	4,5	7,6	7,0	3,0	10,9	8,6	174	20,4	34,8	6,46		
120E	120	52	4,8	7,8	7,5	3,0	13,3	10,4	304	31,2	50,6	8,52		
140 E	140	58	4,9	8,1	8,0	3,0	15,6	12,3	491	45,4	70,2	11,0		
160E	160	64	5,0	8,4	8,5	3,5	18,1	14,2	747	63,3	93,4	13,8		
180 E	180	70	5,1	8,7	9,0	3,5	20,7	16,3	1090	86,0	121,0	17,0		
200 E	200	76	5,2	9,0	9,5	4,0	23,4	18,4	1520	113,0	152,0	20,5		
240E	240	90	5,6	10,0	10,5	4,0	30,6	24,0	2900	208	242,0	31,6		
270 E	270	95	6,0	10,5	11,0	4,5	35,2	27,7	4160	262,0	308,0	37,3		
300E	300	100	6,5	11,0	12,0	5,0	40,5	31,8	5810	327,0	387,0	43,6		
400E	400	115	8,0	13,5	15,0	6,0	61,5	48,3	15220	642,0	761,0	73,4		

EQUAL ANGLES & UN EQUAL ANGLES

Equal Angles - Specification - JIS G3101 - SS400 / ASTM A36 / EN 10025 S275 JR

STANDARD DIMENSIONAL PROGRAM

Size (mm)	kg/mtr	Mtrs / Ton	Size (mm)	kg/mtrs	Mtrs / Ton
20 x 20 x 3	0.91	1099	65 x 65 x 6.0	5.92	169
25 x 25 x 2.5	0.95	1052	65 x 65 x 8.0	7.89	126
25 x 25 x 2.7	1.02	980	70 x 70 x 5.0	5.31	188
25 x 25 x 3.0	1.14	877	70 x 70 x 6.0	6.37	157
30 x 30 x 2.5	1.14	877	70 x 70 x 6.0	6.37	157
30 x 30 x 2.7	1.23	813	70 x 70 x 7.0	7.43	134
30 x 30 x 3.0	1.37	730	70 x 70 x 8.0	8.49	117
30 x 30 x 4.0	1.82	549	75 x 75 x 5.0	5.69	175
30 x 30 x 5.0	2.28	438	75 x 75 x 5.5	6.26	159
38 x 38 x 2.5	1.44	694	75 x 75 x 6.0	6.83	146
38 x 38 x 2.7	1.56	641	75 x 75 x 7.0	7.96	125
38 x 38 x 3.0	1.73	578	75 x 75 x 8.0	9.10	110
38 x 38 x 3.7	2.13	469	75 x 75 x 9.0	10.24	97
38 x 38 x 4.0	2.31	433	80 x 80 x 6.0	7.28	137
38 x 38 x 4.7	2.71	369	80 x 80 x 8.0	9.70	103
40 x 40 x 2.5	1.52	657	80 x 80 x 10.0	12.13	82
40 x 40 x 3.0	1.82	549	90 x 90 x 6.0	8.19	122
40 x 40 x 3.7	2.24	446	90 x 90 x 7.0	9.55	104
40 x 40 x 4.0	2.43	411	90 x 90 x 8.0	10.92	91
40 x 40 x 4.7	2.85	350	90 x 90 x 9.0	12.29	81
40 x 40 x 5.0	3.03	330	90 x 90 x 10.0	13.65	73
40 x 40 x 6.0	3.64	274	100 x 100 x 6.0	9.10	109
50 x 50 x 3.0	2.28	438	100 x 100 x 7.0	10.62	94
50 x 50 x 3.7	2.81	355	100 x 100 x 8.0	12.13	82
50 x 50 x 4.0	3.03	330	100 x 100 x 9.0	13.65	73
50 x 50 x 4.7	3.56	280	100 x 100 x 10.0	15.16	66
50 x 50 x 5.0	3.79	263	100 x 100 x 12.0	18.20	55
50 x 50 x 5.5	4.17	239	100 x 100 x 13.0	19.72	50
50 x 50 x 6.0	4.55	219	120 x 120 x 8.0	14.56	68
50 x 50 x 8.0	6.07	164	120 x 120 x 10.0	18.20	55
60 x 60 x 5.0	4.55	219	120 x 120 x 12.0	21.84	45
60 x 60 x 6.0	5.46	183	130 x 130 x 10.0	19.72	50
60 x 60 x 8.0	7.28	137	150 x 150 x 10.0	22.75	44
63 x 63 x 5.0	4.78	209	150 x 150 x 12.0	27.30	36
63 x 63 x 6.0	5.73	174	150 x 150 x 15.0	34.13	29
63 x 63 x 8.0	7.64	130	200 x 200 x 12.0	36.40	27
65 x 65 x 5.0	4.92	203	200 x 200 x 16.0	48.53	20
65 x 65 x 5.5	5.42	184	200 x 200 x 20.0	60.66	16



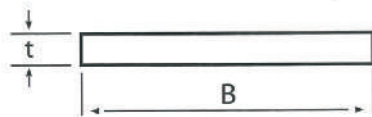
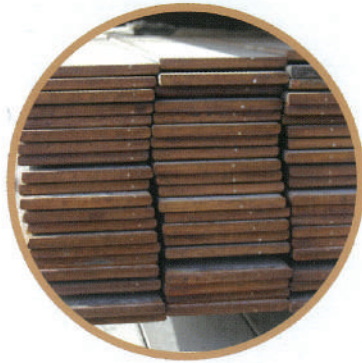
UNEQUAL ANGLES - Specification - JIS G3101 - SS400 / ASTM A36 / EN 10025 S275 JR

Size A x B (mm)	kg/mtr	Mtrs / Ton	Size (mm)	kg/mtr	Mtr / Ton
60 x 40 x 5.0	3.76	265.95	125 x 75 x 12	17.80	56.17
75 x 50 x 5.0	4.73	211.40	150 x 75 x 9.0	15.30	65.35
75 x 50 x 6.0	5.68	176.05	150 x 75 x 10.0	17.00	58.82
75 x 50 x 8.0	7.60	131.57	150 x 90 x 9.0	16.38	61.05
100 x 50 x 6.0	6.85	145.98	150 x 90 x 10.0	18.20	54.95
100 x 50 x 8.0	9.00	111.11	150 x 90 x 12.0	21.60	46.29
100 x 75 x 7.0	9.32	107.29	150 x 90 x 15.0	26.60	37.59
100 x 75 x 9.0	11.80	84.75	200 x 100 x 10.0	23.00	43.47
100 x 75 x 10.0	13.00	76.92	200 x 100 x 12.0	27.30	36.63
125 x 75 x 7.0	10.62	94.16	200 x 100 x 14.0	31.60	31.64
124 x 75 x 10.0	15.00	66.65			

M.S FLAT BARS - Specification - JIS G 3101 - SS40 / ASTM A36 / EN 10025 S275JR

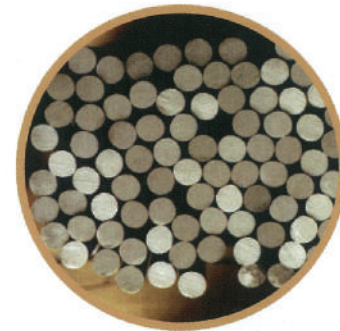
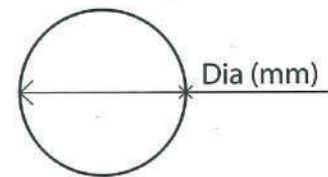
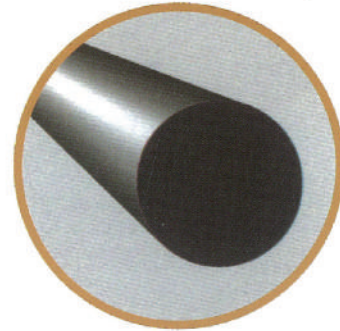
STANDARD DIMENSIONAL PROGRAM

Size (mm)	Kg (mtr)	Mtrs/Ton	Size (mm)	Kg (mtr)	Mtrs/Ton
12x4	0.37	2702	60x6	2.82	354
13x3	0.31	3225	60x8	3.76	266
13x4.5	0.46	2174	60x10	4.71	212
16x3	0.38	2631	65x5	2.55	392
16x4.5	0.56	1785	65x6	3.06	326
19x3	0.45	2222	65x8	4.08	245
19x4.5	0.67	1492	65x9	4.59	217
19x6	0.89	1123	65x12	6.12	163
20x5	0.78	1282	70x16	3.29	304
20x6	0.94	1064	70x8	4.39	227
20x8	1.25	800	70x10	5.49	182
20x10	1.57	637	70x12	6.59	151
25x3	0.59	1695	75x6	3.53	283
25x4	0.78	1282	75x9	5.29	189
25x4.5	0.88	1136	75x12	7.06	141
25x5	0.98	1020	75x16	9.42	106
25x6	1.17	854	75x19	11.18	89
28x8	1.57	637	80x6	3.76	266
25x9	1.76	568	80x8	5.02	199
25x12	2.35	425	80x10	6.28	159
30x3	0.71	1408	100x6	4.71	212
30x4.5	1.06	943	100x8	6.28	159
30x5	1.18	847	100x9	7.06	141
30x6	1.41	709	100x10	7.85	127
30x8	1.88	532	100x12	9.42	106
30x12	2.83	353	100x16	12.56	79
30x3	0.75	1333	100x19	14.91	67
32x4.5	1.13	885	120x6	5.65	177
32x6	1.50	666	120x8	7.53	133
32x9	2.26	442	120x10	9.42	106
32x12	3.01	332	120x12	11.30	88
38x3	0.89	1123	120x16	15.07	66
38x4	1.19	840	125x6	5.88	170
38x4.5	1.34	746	125x8	7.85	127
38x6	1.79	558	125x9	8.83	113
38x9	2.68	373	125x10	9.81	102
38x12	3.58	279	125x12	11.77	85
38x16	4.77	209	125x16	15.70	63
40x3	0.94	1064	150x5	5.88	170
40x4.5	1.41	709	150x6	7.06	141
40x5	1.57	637	150x8	9.42	106
40x6	1.88	532	150x9	10.59	94
40x8	2.51	398	150x10	11.77	85
40x10	3.14	318	150x12	14.13	71
40X12	3.76	266	150X16	18.84	53
40X16	5.02	199	150X19	22.37	48
50X3	1.17	854	175X8	10.99	91
50X4.5	1.76	568	180X10	14.13	71
50X5	1.96	510	180X18	25.43	39
50X6	2.35	425	200X6	9.42	106
50X8	3.14	318	200X8	12.56	79
50X9	3.53	283	200X9	14.13	71
50X10	3.92	255	200X10	15.70	64
50X12	4.70	212	200X12	18.84	53
50X16	6.28	159	200X16	25.12	40
50X20	7.85	127	200X20	31.40	32
50X25	9.81	102	200X25	39.25	25

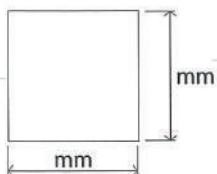
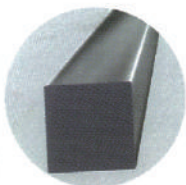


STANDARD DIMENSIONAL PROGRAM

Size (mm)	Kg/mtr	Mtrs / Ton
6	0.22	4545
8	0.39	2564
10	0.61	1639
12	0.89	1123
16	1.57	637
19	2.22	450
20	2.46	406
22	2.97	336
25	3.84	260
28	4.82	207
30	5.53	180
32	6.30	158
36	7.97	125
38	8.88	112
40	9.84	101
42	10.85	92
45	12.46	80
50	15.38	65
55	18.61	53
57	19.99	50
58	20.69	48
60	22.15	45
63.5	24.80	40
65	25.99	38
70	30.15	33
75	34.60	29
80	39.38	25
85	44.45	22
87	46.57	21
90	49.84	20
100	61.53	16
110	74.45	13
120	88.60	11
125	96.14	10
130	103.99	9
150	138.45	7
160	157.52	6
165	167.52	6
170	177.83	5
190	222.13	4
200	246.13	4
250	384.58	2



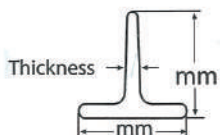
M.S. SUARE BARS - Specification - JIS G3101 - SS400 / ASTM A36 / EN 10025 S275JR



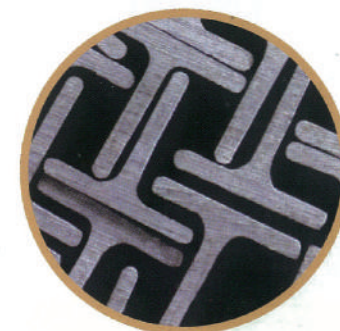
Size (mm)	Kg/mtr	Mtrs/Ton
8	0.5	2000
10	0.79	2565
12.5	1.22	820
16	2.01	497
20	3.14	318
25	4.91	204
30	7.07	141
32	8.04	125
40	12.6	80
45	15.9	63
50	19.6	51
60	28.30	35
75	44.2	23
90	63.6	16
100	78.5	13



M.S. TEE SECTION BARS - Specification - JIS G3101 - SS400 / ASTM A36 / EN 10025 S275 JR



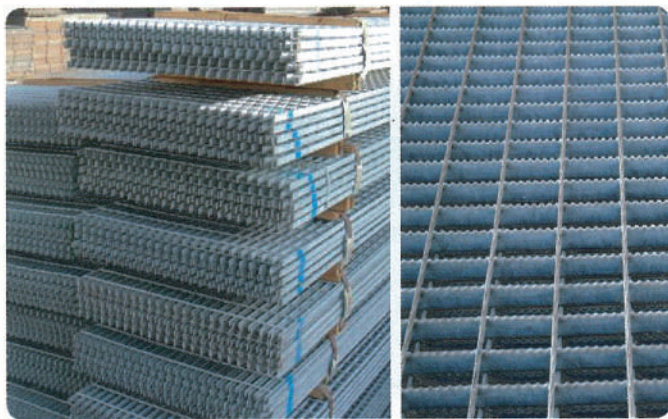
Size (mm)	Kg/mtr	Mtrs/Ton
20 x 20 x 3 MM	0.88	1136
30 x 30 x 4 MM	1.77	565
40 x 40 x 5 MM	2.96	337
50 x 50 x 6 MM	4.44	225



ITEM LIST	A P P L I C A T I O N
1. Galvanized Iron Grating	Structural use Fabrication Construction Industry
2. Mild Steel Expanded Metal	

GALVANIZED IRON GRATING

Specification - As Per EN 10025 S275JR / BS 4360 GR 43 A/ASTM A36

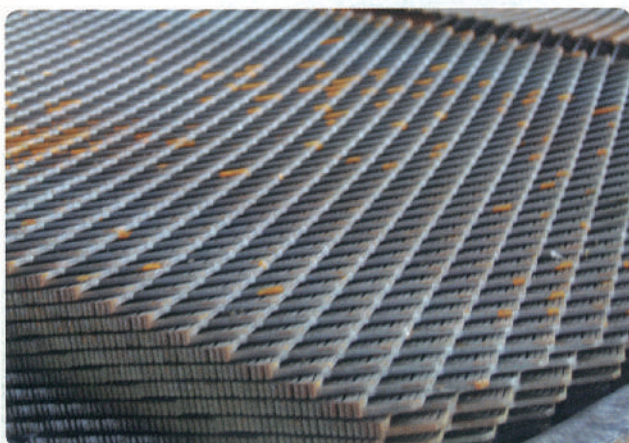


STANDARD DIMENSIONAL PROGRAM

SIZE	Wt/pC (KG)
G.I. GRATING 3'X20'X 25'X3MM	100.35
G.I. GRATING 3'X20'X 25'X4MM	129
G.I. GRATING 3'X20'X 25'X4.5MM	145
G.I. GRATING 3'X20'X 30'X4MM	152
G.I. GRATING 3'X20'X 30'X4.5MM	171
G.I. GRATING 3'X20'X 38'X4MM	188
G.I. GRATING 3'X20'X 38'X4.5MM	212
G.I. GRATING 3'X20'X 40'X4MM	196
G.I. GRATING 3'X20'X 40'X4.5MM	222
G.I. GRATING 3'X20'X 50'X4.5MM	273

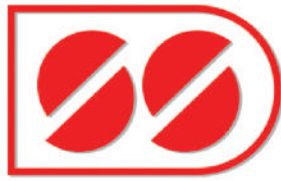
MILD STEEL EXPANDED METAL

Specification - As Per BS1449 PART 1- 1983 HR2 /JIS G3351 STD TYPE



STANDARD DIMENSIONAL PROGRAM

SIZE	Wt/pC (KG)
M.S. EXPANDED METAL 4'X8'X2.3MM	9.48
M.S. EXPANDED METAL 4'X8'X3.2MM	17.60
M.S. EXPANDED METAL 4'X8'X4.5MM	30.90
M.S. EXPANDED METAL 4'X8'X6.0MM	54.40
M.S. EXPANDED METAL 4'X8'X8.0MM	93.30



Galvanized Metal Products.



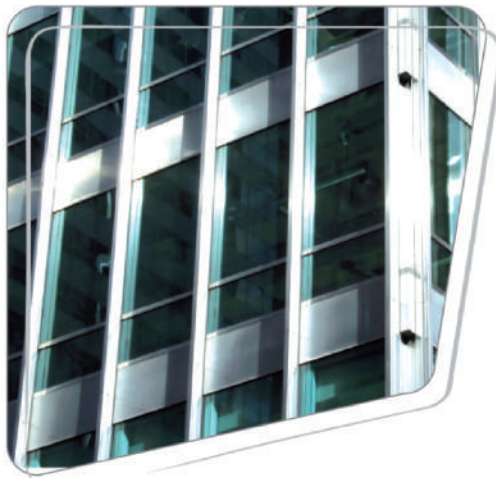
Switchgear



Fire Rated Steel Doors



GI AC Ducting



General Fabrications



VCD (Volume Control Damper)

Cold Rolled Iron

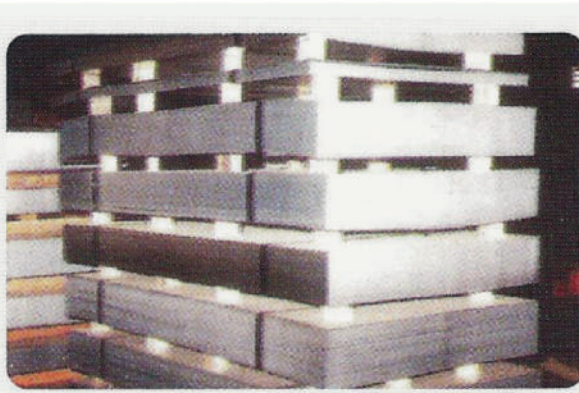
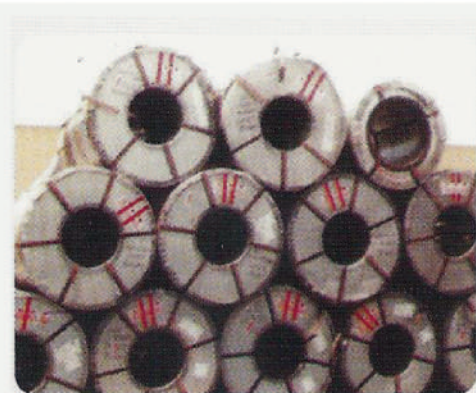
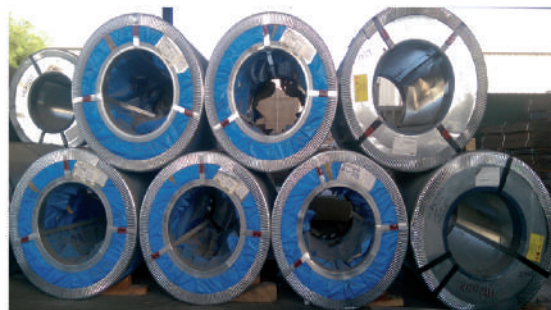
1. Coils- Thickness from 0.50 mm to 1.80 mm
maximum width 1500 mm
2. Sheets - Thickness from 0.50 mm to 2.00 mm
maximum width 1500 mm - Length up to 4000 mm

Hot Dipped Galvanized Iron

1. Coils-Thickness from 0.30 mm to 4.00 mm maximum width 1500 mm
2. Sheets - Thickness from 0.30 mm to 4.00 mm
maximum width 1500 mm - Length up to 6000 mm

Available on request

1. Color coated products in GI and aluminum (Coils and sheets)
2. Electro-galvanized iron
3. Tin, Copper and Brass

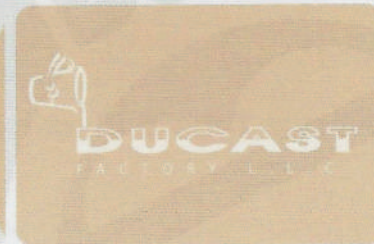
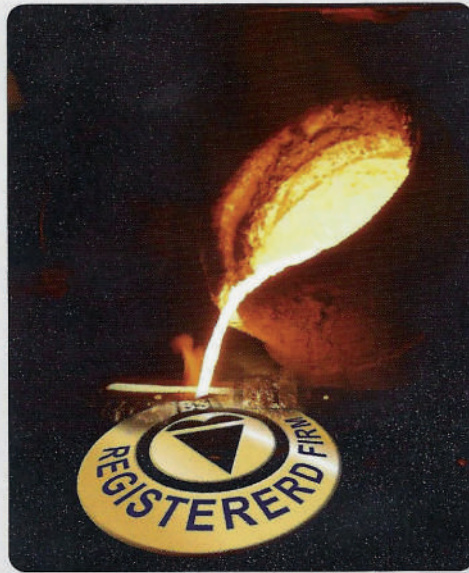


- Advanced Technology Machine Korean designed with an average speed of 120 MPM,
- Produces precision slit strips.
- Coils : HR, CR, HDGI, PPGI, SS, Aluminum plain and colored, Copper and Brass
- Coil width : Maximum 2000 mm
- Coil weight : 25 MT
- Minimum Slit width : 100 mm
- Coil Thickness : HR, CR, HDGI, PPGI - 0.30 mm to 16.00 mm
- Stainless Steel - 0.30 mm to 2.50 mm
- Aluminum (plain and colored) - 0.30 mm to 5.00 mm
- Also Baby coils from Mother coils up to 25 MT.

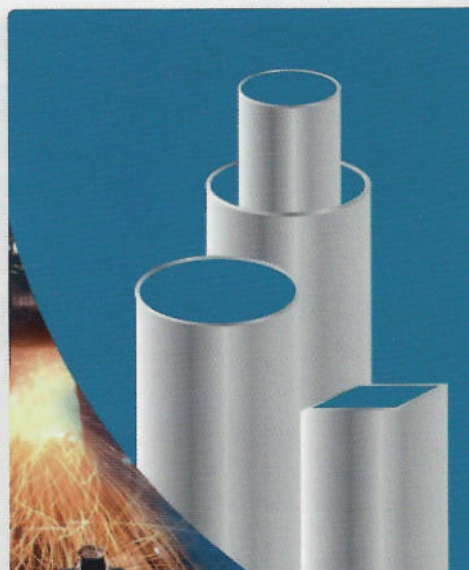


- The Titan made cut to length Machine with world Class Precision levels and computerized
- Temperature Control system produces consistently flat and dimensionally accurate sheets.
- Coils : HR, CR, HDGI, PPGI, SS, Aluminum plain and colored, Copper and Brass
- Coil width : Maximum 2000 mm
- Coil weight : 25 MT
- Coil Thickness : HR, CR, HDGI, PPGI - 0.30 mm to 16.00 mm
- Stainless Steel - 0.30 mm to 1.80 mm
- Aluminum (plain and colored) - 0.30 mm to 1.80 mm





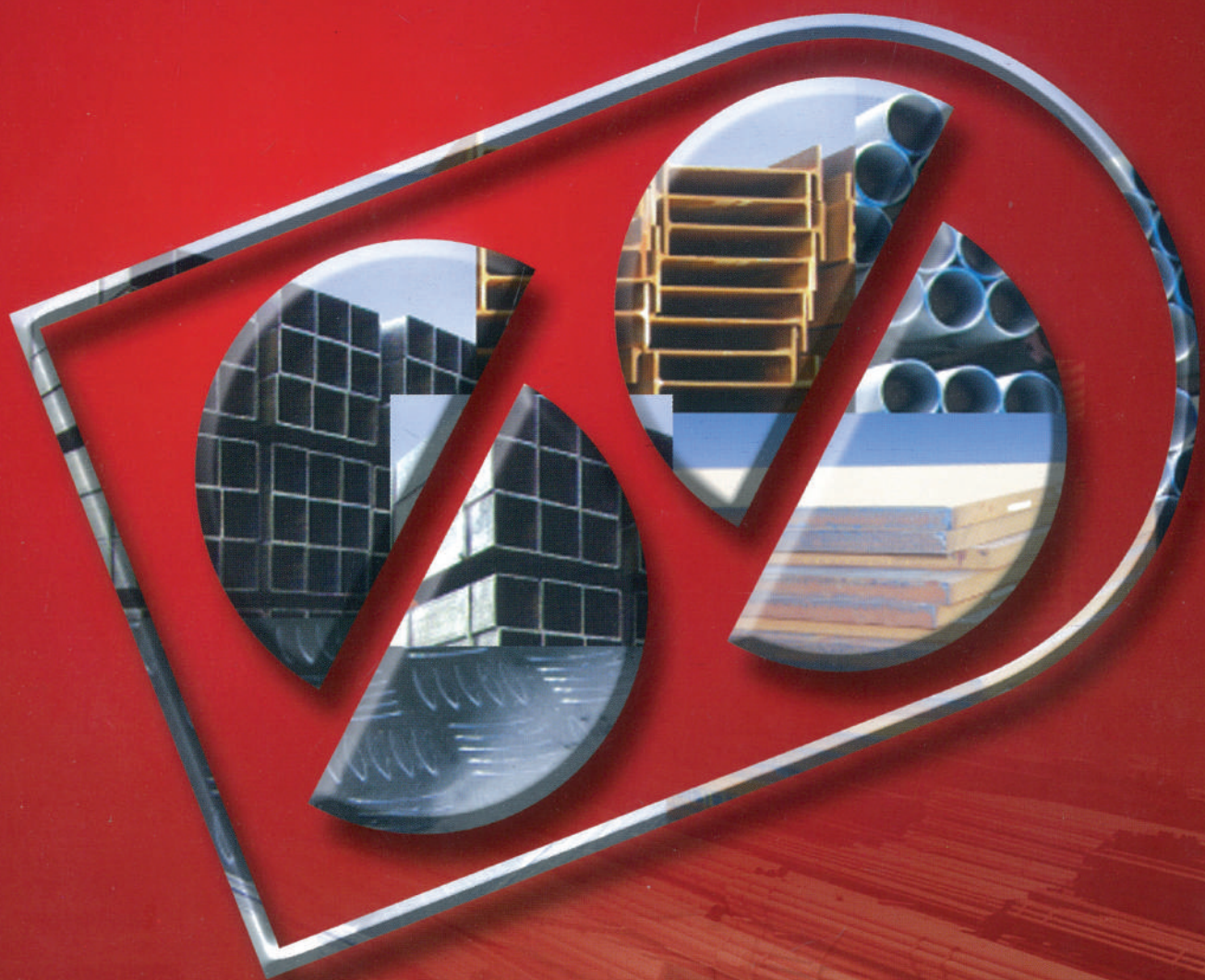
KHK Scaffolding
& Formwork LLC

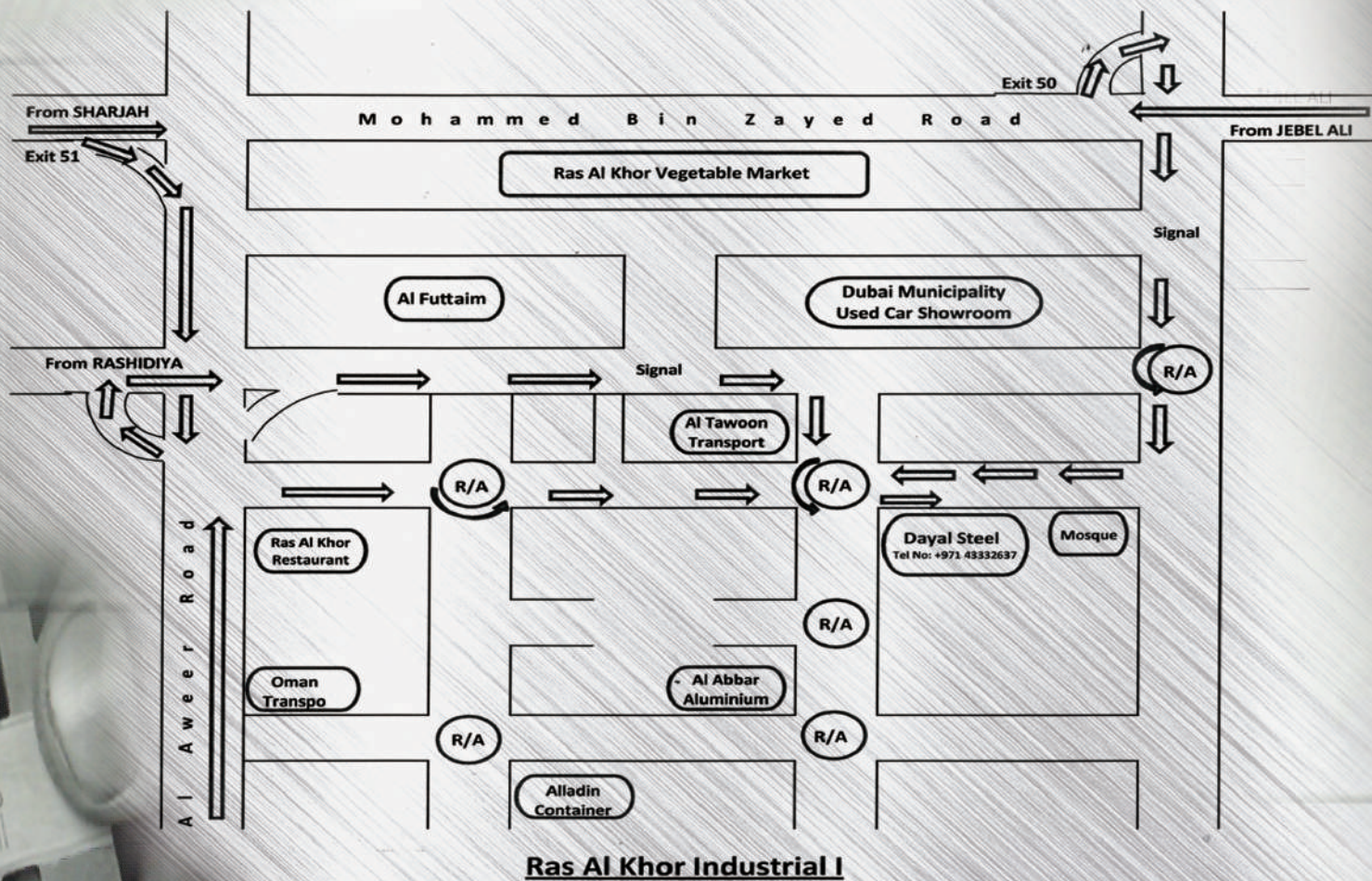


Universal Tube
& Plastic Industries Ltd.

ASSOCIATE COMPANIES

- **Universal Tube & Plastic Industries Ltd.**
 P.O. Box: 16879, Jebel Ali Free Zone,
 Dubai - UAE.
 Tel: +971 4 8835966, Fax: +971 4 8835675
 E-mail: utpinfo@universaltubes.com
 Website: www.universaltubes.com
- **KHK Scaffolding & Formworks LLC.**
 P.O. Box: 2701, Ajman - UAE
 Tel: +971 6 7439013, Fax: +971 6 7439017
 E-mail: khkscaf@emirates.net.ae
 Website: www.khk-scaffolding.com
- **Ducast Factory LLC.**
 P.O. Box: 28480, Dubai - UAE
 Tel: +971 4 3470777, Fax +971 4 3470707
 E-mail: ducast@eim.ae, Web: www.ducast.com
- **Universal Tube & Pipe Industries LLC.**
 P.O. Box: 49695, DIP, Dubai - UAE
 Tel: +971 4 8848221, Fax +971 4 8848229
 E-mail: utpinfo@universaltubes.com
 Website: www.universaltubes.com
- **Del Ani Holdings Limited.**
 P.O. Box: 17045, Jebel Ali Free zone,
 Dubai, UAE
 Phone +971 (4) 33 32637
 Fax +971 (4) 33 32103
 Web : www.del-ani.com
- **Gulf Building Materials WLL**
 P.O. Box: 4782, Doha - Qatar
 Tel: +974 4600164, 5546514
 Fax: +974 4603859
- **Thamood Building Materials L.L.C.**
 P.O. Box: 80781, Industrial Area Al Ain .
 Abu Dhabi - UAE.
 Tel: +971 3 7212879, 7217725,
 Fax: +971 3 7219896
 E-mail: thamood@emirates.net.ae
- **Al Zaher Building Materials L.L.C.**
 P. O.Box: 3102,
 Al Nakheel, Ras Al Khaimah - UAE.
 Tel: +971 7 2285947,
 Fax: +971 7 2284108
 E-mail: zaher320@emirates.net.ae
- **A.N.A. Steel Trading LLC.**
 P.O. Box: 1775, Ajman - UAE.
 Tel: +971 6 7480078,
 Fax: +971 6 7480079
 E-mail: sales@ana-steel.com
- **Al Khaleej Eqpt. & Indus. Supp. LLC.**
 P.O. Box: 26665, Abu Dhabi, UAE
 Tel: +971 2 5559658
 Fax: +971 2 5553518
 E-mail: akiesauh@emirates.net.ae





DAYAL STEEL SUPPLIERS LLC

P.O. Box: 5993, Dubai, U.A.E.

Tel: +971 4 3332637, Fax: +971 4 3332103

E-mail: dsssales@eim.ae