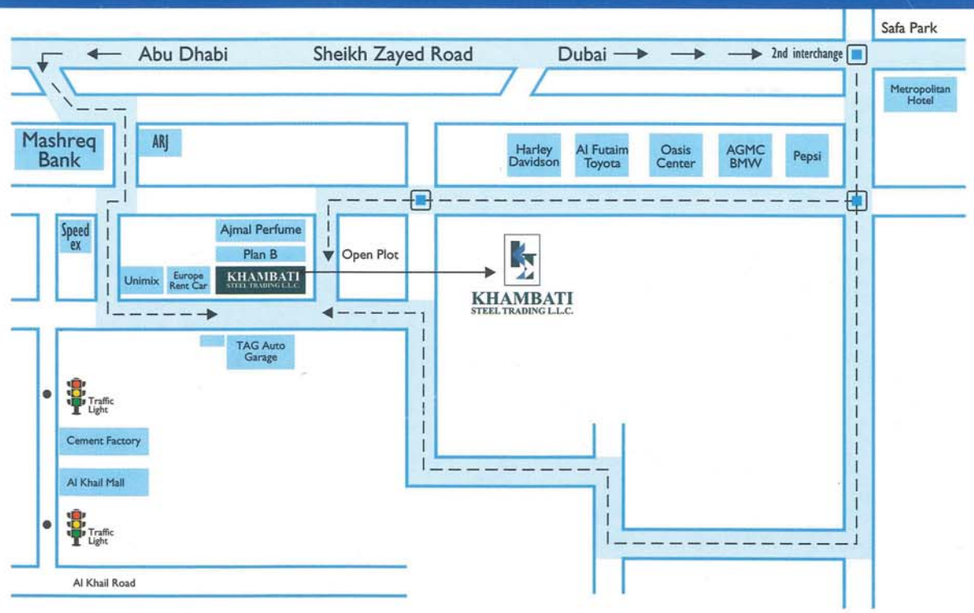

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WORLD CLASS STEEL PIPES & HOLLOW SECTIONS

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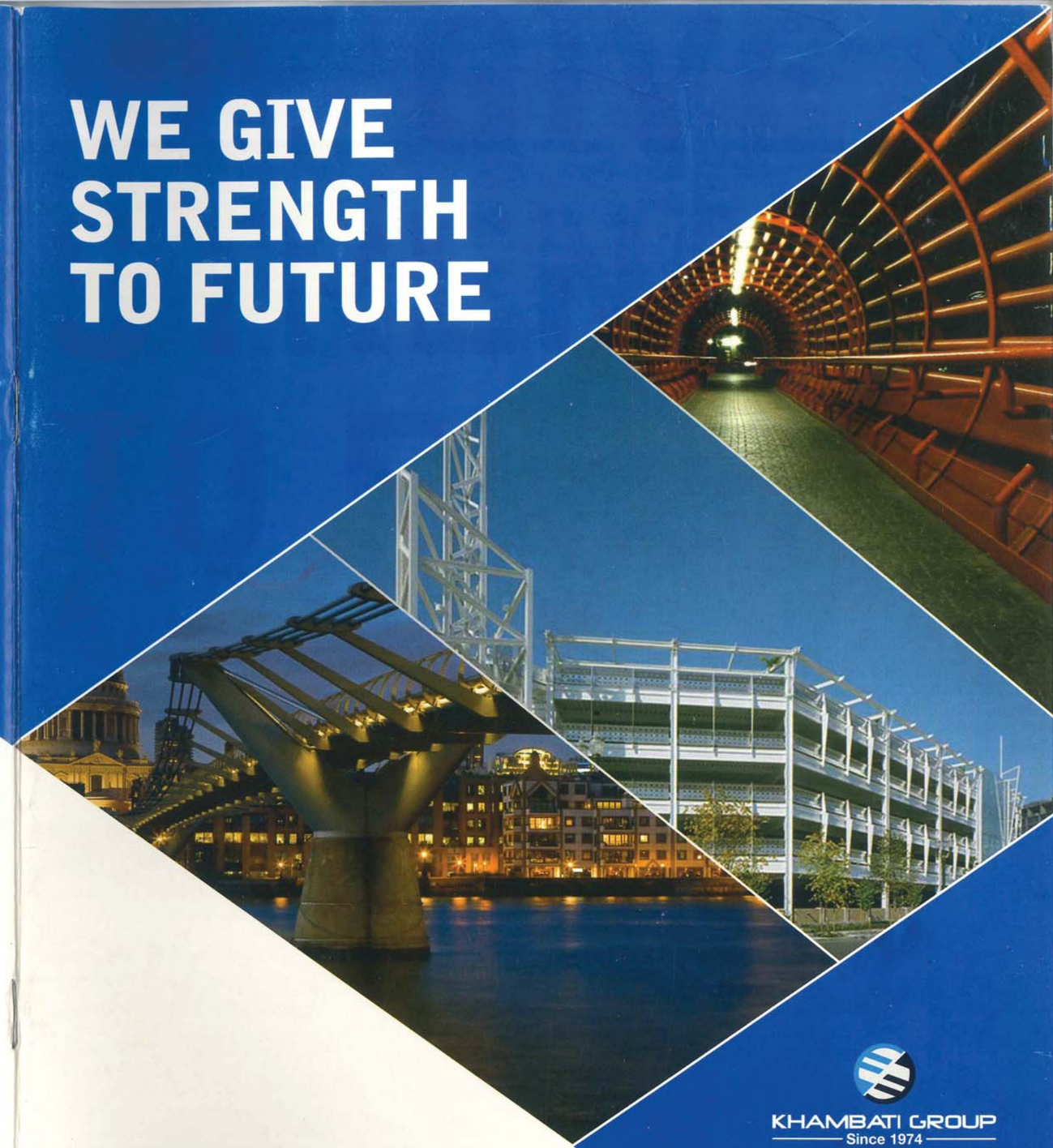

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A. PIPES & HOLLOW SECTIONS

1. MILD STEEL /GALVANIZED PIPES

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
	11/4	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
	11/2	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
	21/2	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	6.8	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	F: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 & Heavy Tubes	1) For quantities of 150 meters and over of one size	: +4%
		2) For Single Tubes	: -8%
Length :	Light, Medium & Heavy Tubes		Random lengths of 4 to 7 metres unless specified otherwise

2. MS PIPES (SCH 40)

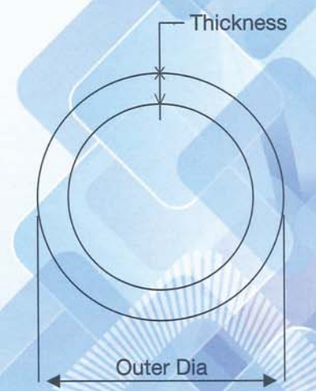
PRODUCT SPECIFICATIONS

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	J 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 (17.40)
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



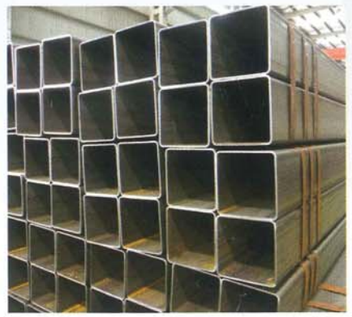
3. SQUARE HOLLOW SECTIONS

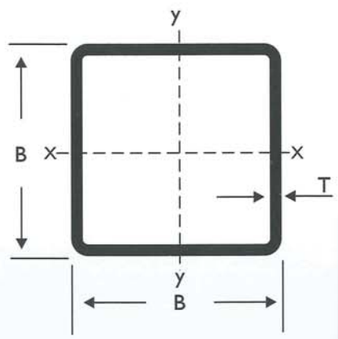
STANDARD DIMENSIONAL PROGRAM

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





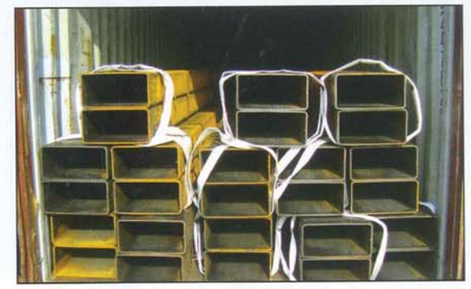
4. RECTANGULAR HOLLOW SECTIONS

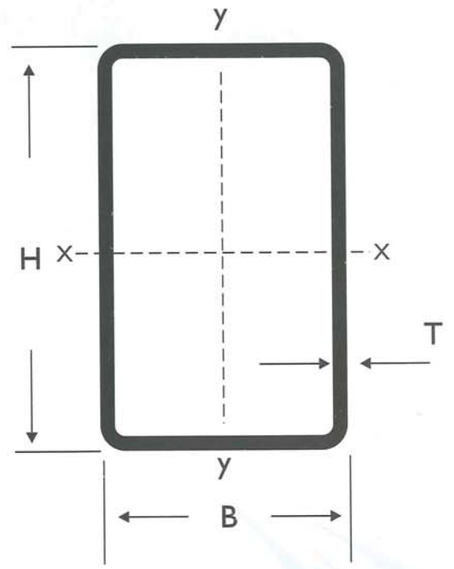
STANDARD DIMENSIONAL PROGRAM

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





5. CARBON STEEL SEAMLESS TUBES
WEIGHT & DIMENSIONS CHART

CONFORMING TO
BS 806/3601/3602/4019/3059

WEIGHT PER KG/MTR.

NOMINAL PIPE SIZE	OD MM	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS
1/8	10.30				1.73 0.37	1.73 0.37		2.41 0.47	2.41 0.47					
1/4	13.70				2.24 0.63	2.24 0.63		3.02 0.80	3.02 0.80					
3/8	17.10				2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.10					
1/2	21.30				2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62				4.78 1.95	7.47 2.55
3/4	26.70				2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20				5.56 2.90	7.82 3.64
1	33.40				3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24				6.35 4.24	9.09 5.45
1 1/4	42.20				3.56 3.39	3.56 3.39		4.84 4.47	4.85 4.47				6.35 5.61	9.70 7.77
1 1/2	48.30				3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41				7.14 7.25	10.15 9.56
2	60.30				3.91 5.44	3.91 5.44		5.54 7.48	5.54 7.48				8.74 11.11	11.07 13.44
2 1/2	73.00				5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41				9.53 14.92	14.02 20.39
3	88.90				5.49 11.29	5.49 11.29		7.62 15.27	7.62 15.27				11.13 21.35	15.24 27.68
3 1/2	101.60				5.74 13.57	5.74 13.57		8.08 18.63	8.08 18.63					
4	114.30				6.02 16.07	6.02 16.07		8.56 22.32	8.56 22.32		11.13 28.32		13.49 33.54	17.12 41.03
5	141.30				6.55 21.77	6.55 21.77		9.53 30.97	9.53 30.97		12.70 40.28		15.88 49.11	19.05 57.43
6	168.30				7.11 28.26	7.11 28.26		10.97 42.56	10.97 42.56		14.27 54.20		18.26 67.56	21.95 97.22
8	219.10		6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	10.30 53.10	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92
10	273.10		6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.50	12.70 81.55	15.09 96.01	18.26 114.75	21.44 133.6	25.40 155.15	28.58 172.33	25.40 155.15
12	323.90		6.35 49.73	8.38 65.20	9.53 73.88	10.31 79.73	14.30 109.00	12.70 97.46	17.48 132.08	21.44 159.91	25.40 186.97	28.58 208.14	33.32 238.76	25.40 186.97
14	355.60	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.33	11.13 94.55	15.10 126.40	12.70 107.39	19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.70	
16	406.40	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.30	16.70 160.00	12.70 123.30	21.44 203.53	26.19 245.56	30.96 286.64	363.53 333.19	40.49 365.35	
18	457.00	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	14.27 155.80	19.00 206.00	12.70 139.15	23.83 254.55	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37	
20	508.00	6.35 78.55	9.53 117.15	12.70 115.12	9.53 117.15	15.09 183.42	20.60 248.5	12.70 155.12	26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	50.01 564.81	
22	559.00	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13		22.20 294.00	12.70 171.09	28.58 373.83	34.93 451.42	41.28 527.02	47.63 600.63	53.98 672.26	
24	610.00	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	24.60 355.00	12.70 187.06	30.96 442.00	38.89 547.71	46.02 640.03	52.37 720.15	56.54 808.22	
26	660.00	7.92 127.36	12.70 202.72		9.53 152.87			12.70 202.72						
28	711.00	7.92 137.32	12.70 218.69	15.88 271.21	9.53 164.85			12.70 218.69						
30	762.00	7.92 147.28	12.70 234.67	15.88 292.18	9.53 176.84			12.70 234.67						
32	813.00	7.92 157.24	12.70 250.64	15.88 312.15	9.53 188.82	17.48 342.91		12.70 250.64						
34	864.00	7.92 167.20	12.70 256.61	15.88 332.12	9.53 200.31	17.48 364.90		12.70 266.61						
36	914.00	7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56	19.05 420.42		12.70 282.27						
38	965.00				9.53 224.54			12.70 298.24						
40	1016.00				9.53 236.53			12.70 314.22						
42	1067.00				9.53 248.52			12.70 330.19						
44	1118.00				9.53 260.50			12.70 346.16						
46	1168.00				9.53 272.25			12.70 351.82						
48	1219.00				9.53 284.24			12.70 377.79						

B. FLAT PRODUCTS

1. HOT ROLLED COILS / SHEETS/ PLATES

STANDARD DIMENSIONAL PROGRAM

SIZE / WIDTH	THICKNESS	GRADE
1219 MM	1.5 MM To 16 MM	ASTM A36/ST 37-2/BS 4360 43A
1524 MM	2.8 MM To 16 MM	ASTM A36/ ST 37-2/BS 4360 43A
2000 MM	5 MM To 16 MM	ASTM A36/S275JR
4' X 8'	1.5 MM To 8 MM	ASTM A36
5' X 20'	2.8 MM To 6 MM	ASTM A36
4' X 8'	7.8 MM To 150 MM	ASTM A36/ST 37-2/BS 4360 43A/ S275JR
5' X 20'	7.8 MM To 16 MM	ASTM A36/ST 37-2/BS 4360 43A/ S275JR
2M X 6M	5 MM To 50 MM	ASTM A36/ST 37-2/BS 4360 43A/ S275JR
2.5 X 8MM	6 MM To 16 MM	ASTM A36/ST 37-2/BS 4360 43A/ S275JR
3.05M X 12M	10 MM To 25 MM	ASTM A36/ST 37-2/BS 4360 43A/ S275JR
2M X 6M	8 MM To 25 MM	ST 52.3
2M X 6M	6 MM To 25 MM	GRADE 50D / S 355
2M X 6M	6 MM To 25 MM	GRADE 70

2. MILD STEEL CHEQUERED SHEETS

STANDARD DIMENSIONAL PROGRAM

SIZE / WIDTH	THICKNESS	GRADE
4'x8'	2.8 MM TO 12 MM	ASTM A36
5'x20'	6 MM TO 12 MM	ASTM A36

3. COLD ROLLED COILS / SHEETS

STANDARD DIMENSIONAL PROGRAM

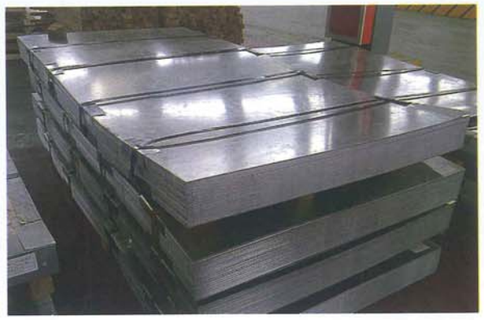
SIZE / WIDTH	THICKNESS	GRADE
1219 MM (COIL)	0.5 MM TO 1.5 MM	ST 12.03
4'x8' (SHEET)	0.5 MM TO 1.5 MM	ST 12.03

4. GALVANIZED STEEL COILS / SHEETS

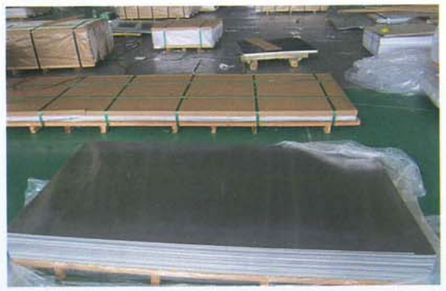
STANDARD DIMENSIONAL PROGRAM

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

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



5. ALUMINIUM PLAIN SHEETS / CHEQUERED SHEET



STANDARD DIMENSIONAL PROGRAM

SIZE / WIDTH	THICKNESS	GRADE
4'x8'	26 Gauge To 12 Gauge	AA 1100/ AA1200
4'x8'	2MM TO 5.5 MM	AA3105

STANDARD DIMENSIONAL PROGRAM

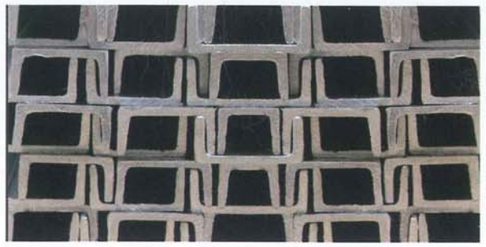
SIZE / WIDTH	THICKNESS	GRADE
4'x8'	1.5 MM TO 6 MM	AA 11000 / AA 1200

C. LONG PRODUCTS

1. GALVANIZED ANGLES, CHANNELS, BEAMS, FLAT BARS AND ROUND BARS

We can supply all types of steel products in galvanized and electro galvanized coating with best quality as per customers requirement.

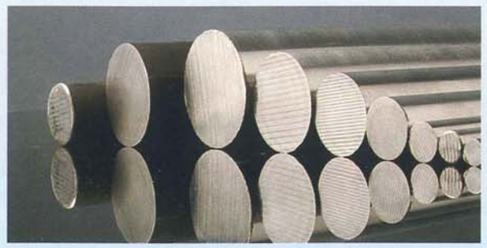
A. Galvanized Angles



B. Galvanized Channels

C. Galvanized Beams

D. Galvanized Flat Bars



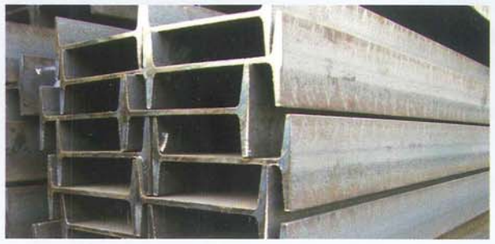
E. Galvanized Steel Round Bars

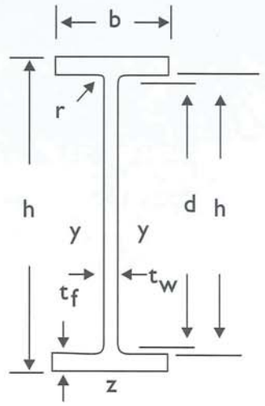
2. IPE / IPE (AA)

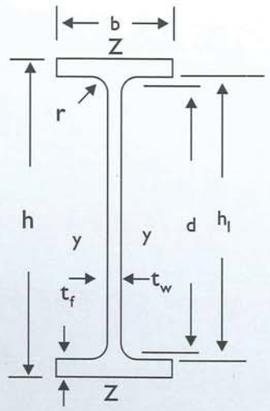
SPECIFICATION - AS PER ASTM A 36 / EN 10025 S275JR

STANDARD DIMENSIONAL PROGRAM

Designation	G	h	b	t_w	t_f	r	A	h_1	d
	kg/m	mm	mm	mm	mm	mm	cm^2	mm	mm
IPE 100 AA	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
PE 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	145.0
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

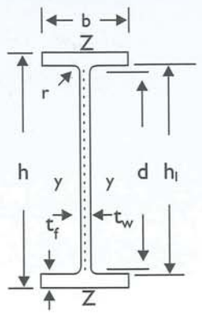
Designation	G	h	b	t_w	t_f	r	A	h_1	d
	kg/m	mm	mm	mm	mm	mm	cm^2	mm	mm
IPE 270 A	30.7	267	135	5.5	8.7	15	39.1	249.6	219.6
IPE 270	36.1	270	135	6.6	10.2	15	45.9	249.6	219.6
IPE 270 O	42.3	274	136	7.5	12.2	15	53.8	249.6	219.6
IPE 270 R	44.0	276	133	7.7	13.1	15	56.0	249.8	219.8
IPE 300 A	36.5	297	150	6.1	9.2	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	66.3	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

3. IPE / IPE (AA) - HEA / HEB

SPECIFICATION - AS PER ASTM A36 / EN 10025 S275JR

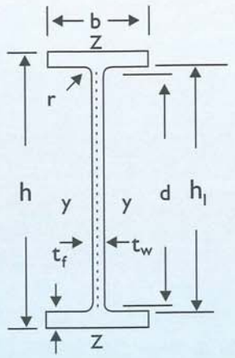
STANDARD DIMENSIONAL PROGRAM

Designation	G	h	b	t_w	t_f	r	A	h_i	d
	kg/m	mm	mm	mm	mm	mm	cm^2	mm	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 750x137	137	753	263	11.5	17.0	17	175	719.0	685.0
IPE 750x147	147	753	265	13.2	17.0	17	187	719.0	685.0
IPE 750x161	160	758	266	13.8	19.3	17	204	719.4	685.4
IPE 750x173	173	762	267	14.4	21.6	17	221	718.8	684.8
IPE 750x185	185	766	267	14.9	23.6	17	236	718.8	684.8
IPE 750x196	196	770	268	15.6	25.4	17	251	719.2	685.2
IPE 750x210	210	775	268	16.0	28.0	17	268	719.0	685.0
IPE 750x222	222	778	269	17.0	29.5	17	283	719.0	685.0



STANDARD DIMENSIONAL PROGRAM

Designation	Weight per Metre G	Depth of Section h	Width of Section b	Thickness Web t_w	Thickness Flange t_f	Radius of the root fillet r	Area of Section A	Inner Depth Between Flanges h_i	Inner Depth Between Flanges d
	kg/m	mm	mm	mm	mm	mm	cm^2	mm	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

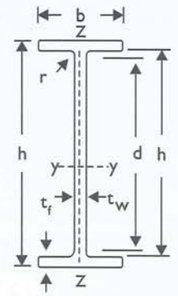


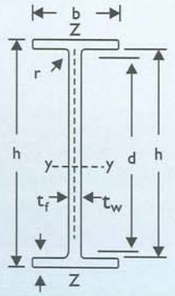
4. HEA / HEB / HEM

SPECIFICATION - AS PER ASTM A36 / EN 10025 S275JR

STANDARD DIMENSIONAL PROGRAM

Designation	G	h	b	t_w	t_f	r	A	h_i	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 AA	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	h_i	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 600x137	137	525	300	11.8	17.5	27	175	540	486
HE 600x151	151	582	300	11.6	20.6	27	193	540	486
HE 600x174	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 700x166	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

5. JIS BEAMS (H & I)

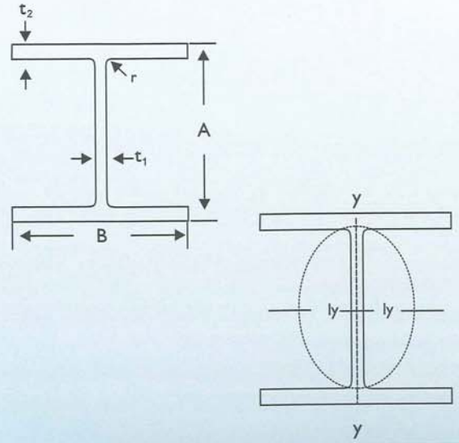
Specification - AS JIS G3101 SS400/ ASTM A36/ EN10025 S275 JR

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)			Jx	Jy	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
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	16.00	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 Inetia		Radius of Gyration		Modulus of Section	
				Web (t_1)	Web (t_2)			Jx	Jy	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
100x50	9.30	100	50	5	7	8	11.85	187	14.8	3.98	1.12	37.5	5.91
125x60	13.2	125	60	6	8	9	16.84	413	29.2	4.95	1.32	66.1	9.73
150x75	14.0	150	75	5	7	8	17.85	666	49.5	6.11	1.66	88.8	13.2
150x100	21.1	148	100	6	9	11	26.84	1.020	151	6.17	2.37	138	30.1
175x90	18.1	175	90	5	8	9	23.04	1210	97.5	7.26	2.06	139	21.7
175x175	40.2	175	175	7.5	11	12	51.21	2880	984	7.50	4.38	330	112
200x100	18.2	198	99	4.5	7	11	23.18	1580	114	8.26	2.21	160	23.0
	21.3	200	100	5.5	8	11	27.6	1840	134	8.24	2.22	184	26.8
200x150	30.6	194	150	6	9	13	39.01	2690	507	8.30	3.61	277	67.6
	49.9	200	200	8	12	13	63.53	4720	1600	8.62	5.02	472	160
250x125	25.7	248	124	5	8	12	32.68	3540	255	10.4	2.79	285	411
	29.6	250	125	6	9	12	37.66	4050	294	10.4	2.79	324	47.0
250x175	44.1	244	175	7	11	16	56.24	6120	984	10.4	4.18	502	113
300x150	32.0	298	149	5.5	8	13	40.80	6320	442	12.4	3.29	424	59.3
	36.7	300	150	6.5	9	13	46.38	7210	508	12.4	3.29	481	67.7
300x200	56.8	294	200	8	12	18	72.38	11300	1600	12.5	4.71	771	160
	65.4	298	201	9	14	18	82.36	13300	1900	12.6	4.77	893	189
305x175	41.4	346	174	6	9	14	52.7	11100	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
305x250	69.2	336	249	8	12	20	88.1	18.500	3090	14.5	5.92	1100	248
	79.7	340	250	9	14	20	101.15	21.700	3650	14.6	6.00	1280	292
400x200	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
400x300	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
450x200	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	16.8	4.40	1.490	187



STANDARD DIMENSIONAL PROGRAM

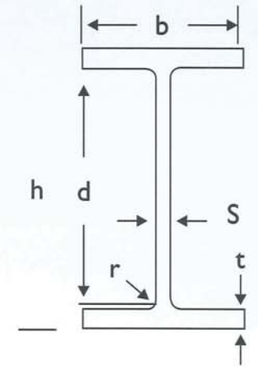
Size	Weight	Depth of Section (A)	Flange Width (B)	Thickness		Corner Radius (r)	Sectional Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
				Web (t_1)	Web (t_2)			Jx	Jy	r_x	r_y	z_x	z_y
mm	kg/m	mm	mm	mm	mm	mm	cm	cm^4	cm^4	cm	cm	cm^3	cm^3
450x300	106	434	299	10	15	24	135.0	46.800	6.690	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
500x200	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
500x300	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
600x200	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	776.00	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
600x300	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	137.00	10.600	24.9	6.90	4.620	701
700x300	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
800x300	191	792	300	14	22	28	243.4	254.000	9.930	21.0	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
900x300	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

6. UNIVERSAL BEAMS

Specification - AS PER EN 10025 S275JR / BS 4360 GR 43 A

STANDARD DIMENSIONAL PROGRAM

Designation	Mass per metre	Depth of Section h	Depth of Section b	Thickness Web s	Thickness Flange t	Root Radius r	Depth Between Fillets d	Radius for Local Bucking	
	kg/m	mm	mm	mm	mm	mm	mm	Flange b/2t	Web d/s
127x76x13	13.0	127.0	76.0	4.0	7.6	7.6	96.6	5.00	24.1
152x89x16	16.0	152.4	88.7	4.5	7.7	7.6	121.8	5.76	27.1
178x102x19	19.0	177.0	101.2	4.8	7.9	7.6	146.8	6.41	30.6
203x102x23	23.1	203.2	101.8	5.4	9.3	7.6	169.4	5.47	31.4
203x133x25	25.1	203.2	133.2	5.7	7.8	7.6	172.4	8.54	30.2
203x133x30	30.0	206.8	133.9	6.4	9.6	7.6	172.4	6.97	26.9
254x102x22	22.0	254.0	101.6	5.7	6.8	7.6	225.2	7.47	39.5
254x102x25	25.2	257.2	101.9	6.0	8.4	7.6	225.2	6.07	37.5
254x102x28	28.3	260.4	102.2	6.3	10.0	7.6	225.2	5.11	35.7
254x146x31	31.1	251.4	146.1	6.0	8.6	7.6	219.0	8.49	36.5
254x146x37	37.0	256.0	146.4	6.3	10.9	7.6	219.0	6.72	34.8
254x146x43	43.0	259.6	147.3	7.2	12.7	7.6	219.0	5.80	30.4
305x127x37	37.0	304.4	123.3	7.1	10.7	8.9	265.2	5.77	37.4
305x127x42	41.9	307.2	124.3	8.0	12.1	8.9	265.2	5.14	33.2
305x127x48	48.1	311.0	125.3	9.0	14.0	8.9	265.2	4.47	29.5
305x165x40	40.3	303.4	165.0	6.0	10.2	8.9	265.2	8.09	44.2
305x165x46	46.1	306.6	165.7	6.7	11.8	8.9	265.2	7.02	39.6
305x165x54	54.0	310.4	166.9	7.9	13.7	8.9	265.2	6.09	33.6
365x127x33	33.1	349.0	125.4	6.0	8.5	10.2	311.6	7.38	51.9
356x127x39	39.1	353.4	126.0	6.6	10.7	10.2	311.6	5.89	47.2



STANDARD DIMENSIONAL PROGRAM

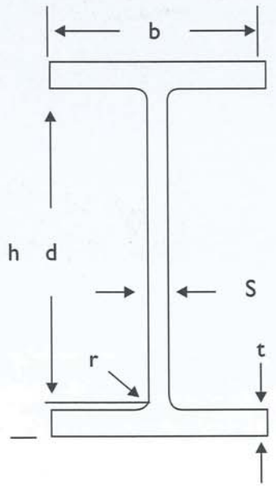
Designation	Mass per metre	Depth of Section h	Depth of Section b	Thickness Web s	Thickness Flange t	Root Radius r	Depth Between Fillets d	Radius for Local Bucking	
	kg/m	mm	mm	mm	mm	mm	mm	Flange b/2t	Web d/s
356x171x45	45.0	351.4	171.1	7.0	9.7	10.2	311.6	8.82	44.5
356x171x51	51.0	355.0	171.5	7.4	11.5	10.2	311.6	7.46	42.1
356x171x57	57.0	358.0	172.2	8.1	13.0	10.2	311.6	6.62	38.5
356x171x67	67.1	363.4	173.2	9.1	15.7	10.2	311.6	5.52	34.2
406x140x39	39.0	398.0	141.8	6.4	8.6	10.2	360.4	8.24	56.3
406x140x46	46.0	403.2	142.2	6.8	11.2	10.2	360.4	6.35	53.0
406x178x54	54.0	402.6	177.7	7.7	10.9	10.2	360.4	8.15	46.8
406x178x60	60.1	406.4	177.9	7.9	12.8	10.2	360.4	6.95	45.6
406x178x67	67.1	409.4	178.8	8.8	143	10.2	360.4	6.25	41.0
406x178x74	74.2	412.8	179.5	9.5	16.2	10.2	360.4	5.61	37.9
457x152x52	52.3	449.8	152.4	7.6	10.9	10.2	407.6	6.99	53.6
457x152x60	59.8	454.6	152.9	8.1	13.3	10.2	407.6	5.75	50.3
457x152x67	67.2	458.0	153.8	9.0	15.0	10.2	407.6	5.13	45.3
457x152x74	74.2	462.0	154.4	9.6	17.0	10.2	407.6	4.54	42.5
457x152x82	82.1	465.8	155.3	10.5	18.9	10.2	407.6	4.11	38.8
457x191x67	67.1	453.4	189.9	8.5	12.7	10.2	407.6	8.48	48.0
457x191x74	74.3	457.0	190.4	9.0	14.5	10.2	407.6	6.57	45.3
457x191x82	82.0	460	191.3	9.9	16.0	10.2	407.6	5.98	41.2
457x191x89	89.3	463.4	191.9	10.5	17.7	10.2	407.6	5.42	38.8
457x191x98	98.3	467.2	192.8	11.4	19.6	10.2	407.6	4.92	35.8
533x210x82	82.2	528.3	208.8	9.6	13.2	12.7	476.6	7.91	49.6
533x210x92	92.1	533.1	209.3	10.1	15.6	12.7	476.5	6.71	47.2
533x210x101	101.0	536.7	210.0	10.8	17.4	12.7	476.5	6.03	44.1
533x210x109	109.0	539.5	210.8	11.6	18.8	12.7	476.5	5.61	41.1
533x210x122	122.0	544.5	211.9	12.7	21.3	12.7	476.5	4.97	37.5
610x229x101	101.2	602.6	227.6	10.5	14.8	12.7	547.6	7.69	52.2
610x229x113	113.0	607.6	228.2	11.1	17.3	12.7	547.6	6.60	49.3
610x229x125	125.1	612.2	229.0	11.9	19.6	12.7	547.6	5.84	46.0
610x229x140	139.9	617.2	230.2	13.1	22.1	12.7	547.6	5.21	41.8

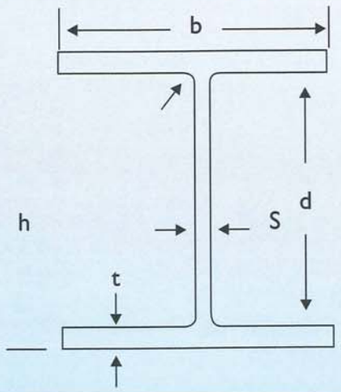
7. UNIVERSAL BEAMS/ UNIVERSAL COLUMNS

Specification - AS PER EN 10025 S275JR / BS 4360 GR 43 A

STANDARD DIMENSIONAL PROGRAM

Designation	Mass per metre	Depth of Section h	Depth of Section b	Thickness Web s	Thickness Flange t	Root Radius r	Depth Between Fillets d	Radius for Local Bucking	
	kg/m	mm	mm	mm	mm	mm	mm	Flange b/2t	Web d/s
610x305x149	149.1	612.4	304.8	11.8	19.7	16.5	540.0	7.74	45.8
610x305x179	179.0	620.2	307.1	14.1	23.6	16.5	540.0	6.51	38.3
610x305x238	238.1	635.8	311.4	18.4	31.4	16.5	540.0	4.96	29.3
686x254x125	125.2	677.9	253.0	11.7	16.2	15.2	615.1	7.81	52.6
686x254x140	140.1	683.5	253.7	12.4	19.0	15.2	615.1	6.68	49.6
686x254x152	152.4	687.5	254.5	13.2	21.0	15.2	615.1	6.06	46.6
686x254x170	170.2	692.9	255.8	14.5	23.7	15.2	615.1	5.40	42.4
762x267x134	133.9	750.0	264.4	12.0	15.5	16.5	686.0	8.53	57.2
762x267x147	146.9	754.0	265.2	12.8	17.5	16.5	686.0	7.58	53.6
762x267x173	173.0	762.2	266.7	14.3	21.6	16.5	686.0	6.17	48.0
762x267x197	196.8	769.8	268.0	15.6	25.4	16.5	686.0	5.28	44.0
838x292x176	175.9	834.9	291.7	14.0	18.8	17.8	761.7	7.76	54.4
838x292x194	193.8	840.7	292.4	14.7	21.7	17.8	761.7	6.74	51.8
838x292x226	226.5	850.9	293.8	16.1	26.8	17.8	761.7	5.48	47.3
914x305x201	200.9	903.0	303.3	15.1	20.2	19.1	824.4	7.51	54.6
914x305x224	224.2	910.4	304.1	15.9	23.9	19.1	824.4	6.36	51.8
914x305x253	253.4	918.4	305.5	17.3	27.9	19.1	824.4	5.47	47.7
914x305x289	289.1	926.6	307.7	19.5	32.0	19.1	824.4	4.81	42.3
914x419x343	343.3	911.8	418.5	19.4	32.0	24.1	799.6	6.54	41.2
914x419x388	388.0	921.0	420.5	21.4	36.6	24.1	799.6	5.74	37.4
1016x305x222	222.0	970.3	300.0	16.0	21.1	30.0	867.8	7.11	54.4
1016x305x249	249.0	980.2	300.0	16.5	26.0	30.0	868.0	5.77	52.7
1016x305x272	272.0	990.1	300.0	16.5	31.0	30.0	868.0	4.84	52.7
1016x305x314	314.0	1000.0	300.0	19.1	35.9	30.0	868.2	4.18	45.6
1016x305x349	349.0	1008.1	302.0	21.1	40.0	30.0	868.0	3.78	41.2
1016x305x393	393.0	1016.0	303.0	24.4	43.9	30.0	868.2	3.45	35.7
1016x305x438	438.0	1025.9	305.4	26.9	49.0	30.0	868.0	3.12	32.3
1016x305x487	487.0	1036.1	308.5	30.0	54.1	30.0	867.8	2.85	29.0





STANDARD DIMENSIONAL PROGRAM

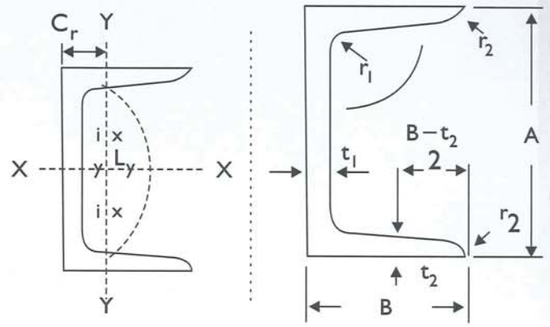
Designation	Mass per metre	Depth of Section h	Depth of Section b	Thickness Web s	Thickness Flange t	Root Radius r	Depth Between Fillets d	Radius for Local Bucking	
	kg/m	mm	mm	mm	mm	mm	mm	Flange b/2t	Web d/s
152x152x23	23.0	152.4	152.2	5.8	6.8	7.6	123.6	11.2	21.3
152x152x30	30.0	157.6	152.9	6.5	9.4	7.6	123.6	8.13	19.0
152x152x37	37.0	161.8	154.4	8.0	11.5	7.6	123.6	6.71	15.4
203x203x46	46.1	203.2	203.6	7.2	11.0	10.2	160.8	9.25	22.3
203x203x52	52.0	206.2	204.3	7.9	12.5	10.2	160.8	8.17	20.4
203x203x60	60.0	2.9.6	205.8	9.4	14.2	10.2	160.8	7.25	17.1
203x203x71	71.0	215.8	206.4	10.0	17.3	10.2	160.8	5.97	16.1
203x203x86	86.1	222.2	209.1	12.7	20.5	10.2	160.8	5.10	12.7
254x254x73	73.1	254.1	254.6	8.6	14.2	12.7	200.3	8.96	23.3
254x254x89	88.9	260.3	256.3	10.3	17.3	12.7	200.3	7.41	19.4
254x254x107	107.1	266.7	258.8	12.8	20.5	12.7	200.3	6.31	15.6
254x254x132	132.0	276.3	261.3	15.3	25.3	12.7	200.3	5.16	13.1
254x254x167	167.1	289.1	265.2	19.2	31.7	12.7	200.3	4.18	10.4
305x305x97	96.9	307.9	305.3	9.9	15.4	15.2	246.7	9.91	24.9
305x305x118	117.9	314.5	307.4	12.0	18.7	15.2	246.7	8.22	20.6
305x305x137	136.9	320.5	309.2	13.8	217	15.2	246.7	7.12	17.9
305x305x158	158.1	327.1	311.2	15.8	25.0	15.2	246.7	6.22	15.6
305x305x198	198.1	339.9	314.5	19.1	31.4	15.2	246.7	5.01	12.9
305x305x240	240.0	352.5	318.4	23.0	37.7	15.2	246.7	4.22	10.7
305x305x283	282.9	365.3	322.2	26.8	44.1	15.2	246.7	3.65	9.21
356x368x129	129.0	355.6	368.6	10.4	17.5	15.2	290.2	10.5	27.9
356x368x153	152.9	362.0	370.5	12.3	20.7	15.2	290.2	8.95	23.6
356x368x177	177.0	368.2	372.6	14.4	23.8	15.2	290.2	7.83	20.2
356x368x202	201.9	374.6	374.7	16.5	27.0	15.2	290.2	6.94	17.6
356x406x235	235.1	381.0	394.8	18.4	30.2	15.2	290.2	6.54	15.8
356x406x287	287.1	393.6	399.0	22.6	36.5	15.5	290.2	5.47	12.8
356x406x340	339.9	406.4	403.0	26.6	42.9	15.2	290.2	4.70	10.9
356x406x393	393.0	419.0	407.0	30.6	49.2	15.2	290.2	4.14	9.48
356x406x467	467.0	436.6	412.2	35.8	58.0	15.2	290.2	3.55	8.11
356x406x551	551.0	455.6	418.5	42.1	67.5	15.2	290.2	3.10	6.89
356x406x634	633.9	474.6	424.0	47.6	77.0	15.2	290.2	2.75	6.10

8. JIS CHANNEL UPN CHANNEL

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

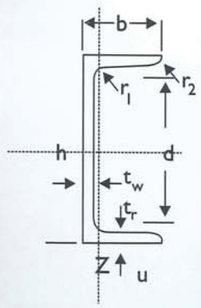
STANDARD DIMENSIONAL PROGRAM

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		Jx	Jy	tx	ty	zx	zy
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	1980	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 CHANNELS - Specification - JIS G3101 - SS 400 / ASTM A36 / EN 10025 S275 JR

Designation	G kg/m	Dimensions							Dimensions for detailing				Surface	
		h mm	b mm	t_w mm	t_f mm	t_1 mm	t_2 mm	A cm	d mm	o	e_{min} mm	e_{min} mm	A_1 m^2/m	A_2 M^2/t
UPN80	08.64	80	45	6.0	8.0	8.0	4.00	11.0	46		-	-	0.312	36.13
UPN100	10.60	100	50	6.0	8.5	8.5	4.50	13.5	64	M10	31	34	0.372	35.1
UPN120	13.40	120	55	7.0	9.0	9.0	4.50	17.0	82	M10	32	39	0.434	32.52
UPN140	16.00	140	60	7.0	10.0	10.0	5.00	20.4	98	M12	37	41	0.489	30.54
UPN160	18.80	160	65	7.5	10.5	10.5	5.50	24.0	115	M16	38	38	0.546	28.98
UPN180	22.00	180	70	8.0	11.0	11.0	5.50	28.0	133	M16	38	43	0.611	27.8
UPN200	25.30	200	75	8.5	11.5	11.5	6.00	32.2	151	M16	39	48	0.651	26.15
UPN220	29.40	220	80	9.0	12.5	12.5	6.50	37.4	167	M20	44	47	0.718	24.46
UPN240	33.20	240	85	9.5	13.0	13.0	6.50	42.3	184	M20	45	52	0.775	23.34
UPN260	37.90	260	90	10.0	14.0	14.0	7.00	48.3	200	M24	51	51	0.834	22
UPN280	41.80	280	95	10.0	15.0	15.0	7.50	53.3	216	M24	52	56	0.890	21.27
UPN300	46.20	300	100	10.0	16.0	16.0	8.00	58.8	232	M24	53	61	0.950	20.58
UPN320	59.50	320	100	14.0	17.5	17.5	8.75	75.8	246	M24	59	61	0.982	16.5
UPN350	60.60	350	100	14.0	16.0	16.0	8.00	77.3	282	M24	57	61	1.047	17.25
UPN380	63.10	380	102	13.5	16.0	16.0	8.00	80.4	313	M24	57	63	1.110	17.59
UPN400	71.80	400	110	14.0	18.0	18.0	9.00	91.5	324	M27	59	65	1.182	16.46

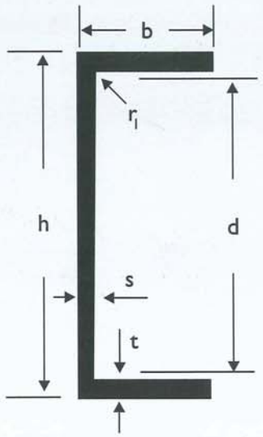


9. PARALLEL FLANGE / UPE CHANNEL

PARALLEL FLANGE CHANNEL - Specification - JIS G3 101 - SS 400/ASTM A36 / EN 10025 S 275 JR

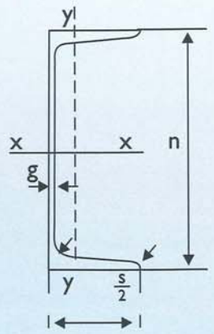
STANDARD DIMENSIONAL PROGRAM

Designation	Mass per metre	Depth of Section h	Width of Section b	Thickness Web s	Thickness Flange h	Distance of Cy	Radius Root r	Depth between Fillets d
mm	kg/m	mm	mm	mm	mm	cm	mm	mm
100x50	10.20	100	50	5.0	8.5	1.73	9	65
125x65	14.80	125	65	5.5	9.5	2.25	12	82
150x75	17.90	150	75	5.5	10.0	2.58	12	106
150x90	23.90	150	90	6.5	12.0	3.30	12	102
180x75	20.30	180	75	6.0	105	2.41	12	135
180x90	26.10	180	90	6.5	12.5	3.17	12	131
200x75	23.40	200	75	6.0	12.5	2.48	12	151
200x90	29.70	200	90	7.0	14.0	3.12	12	148
230x75	25.70	230	75	6.5	12.5	2.30	12	181
230x90	32.20	230	90	7.5	14.0	2.92	12	178
260x75	27.60	260	75	7.0	12.0	2.10	12	212
260x90	34.80	260	90	8.0	14.0	2.74	12	208
300x90	41.40	300	90	9.0	15.5	2.60	12	245
300x100	45.50	300	100	9.0	16.5	3.05	15	237
380x100	54.00	380	100	9.5	17.5	2.79	15	315
430x100	64.40	430	100	11.0	19.0	2.62	15	362



UPE CHANNEL - Specification - JIS G3101 - MSS 400 / ASTM A 36 / EN 10025 S 275 JR

STANDARD DIMENSIONAL PROGRAM



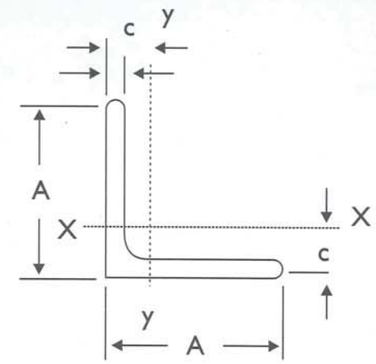
Designation	Dimension h	s	g	t	r	r_1	Sectional area cm^2	Mass of 1m kg	Statical Values Ix cm^2	Iy cm^2	Wx cm^3	Wy cm^3
80 E	80	40	4.6	7.4	6.4	2.5	9.0	7.1	89	12.8	22.4	4.75
100E	100	46	4.5	7.6	7.0	3.0	10.9	8.6	174	20.4	34.8	6.46
120E	120	52	4.8	7.8	7.5	3.0	13.3	10.4	304	31.2	50.6	8.52
140E	140	58	4.9	8.1	8.0	3.0	15.6	12.3	491	45.4	70.2	11.0
160E	160	34	5.0	8.4	8.5	3.5	18.1	14.2	747	63.3	93.4	13.8
180E	180	70	5.1	8.7	9.0	3.5	20.7	16.3	1090	86.0	121.0	17.0
200E	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
270E	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

10. EQUAL ANGLES & UNEQUAL ANGLES

EQUAL ANGLES - Specification - JIS G3101 - SS 400/ASTM A36 / EN 10025 S275 JR

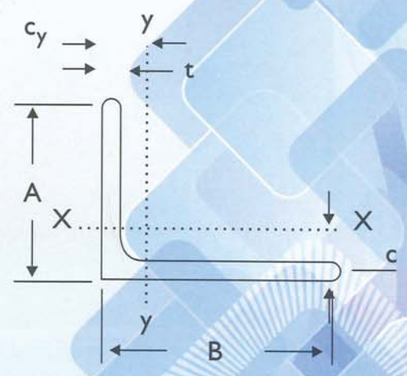
STANDARD DIMENSIONAL PROGRAM

Size (mm)	kg/mtr	Mtrs/Ton	Size(mm)	kg/mtrs	Mtrs/Ton
20x20x3	0.91	1099	65x65x6.0	5.92	169
25x25x2.5	0.95	1052	65x65x8.0	7.89	126
25x25x2.7	1.02	980	70x70x5.0	5.31	188
25x25x3.0	1.14	877	70x65x6.0	6.37	157
30x30x2.5	1.14	877	70x70x6.0	6.37	157
30x30x2.7	1.23	813	70x70x7.0	7.43	134
30x30x3.0	1.37	730	70x70x8.0	8.49	117
30x30x4.0	1.82	549	75x75x5.0	5.69	175
30x30x5.0	2.28	438	75x75x5.5	6.26	159
38x38x2.5	1.44	694	75x75x6.0	6.83	146
38x38x2.7	1.56	641	75x75x7.0	7.96	125
38x38x3.0	1.73	578	75x75x8.0	9.10	110
38x38x3.7	2.13	469	75x75x9.0	10.24	97
38x38x4.0	2.31	433	80x80x6.0	7.28	137
38x38x4.7	2.71	369	80x80x8.0	9.70	103
40x40x2.5	1.52	657	80x80x10.0	12.13	82
40x40x3.0	1.82	549	90x90x6.0	8.19	122
40x40x3.7	2.24	446	90x90x7.0	9.55	104
40x40x4.0	2.43	411	90x90x8.0	10.92	91
40x40x4.7	2.85	350	90x90x9.0	12.29	81
40x40x5.0	3.03	330	90x90x10.0	13.65	73
40x40x6.0	3.64	274	100x100x6.0	9.10	109
50x50x3.0	2.28	438	100x100x7.0	10.62	94
50x50x3.7	2.81	355	100x100x8.0	12.13	82
50x50x4.0	3.03	330	100x100x9.0	13.65	73
50x50x4.7	3.56	280	100x100x10.0	15.16	66
50x50x5.0	3.79	263	100x100x12.0	18.20	55
50x50x5.5	4.17	239	100x100x13.0	19.72	50
50x50x6.0	4.55	219	120x120x8.0	14.56	68
50x50x8.0	6.07	164	120x120x10.0	18.20	55
60x60x5.0	4.55	219	120x120x12.0	21.84	45
60x60x6.0	5.46	183	130x130x10.0	19.72	50
60x60x8.0	7.28	137	150x150x10.0	22.75	44
63x63x5.0	4.78	209	150x150x12.0	27.30	36
63x63x6.0	5.73	174	150x150x15.0	34.13	29
63x63x8.0	7.64	130	200x200x12.0	36.40	27
65x65x5.0	4.92	203	200x200x16.0	48.53	20
65x65x5.5	5.42	184	200x200x20.0	60.66	16



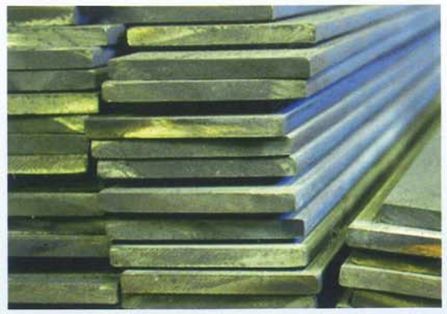
UNEQUAL ANGLES- Specification - JIS G3101 - SS 400/ASTM A36 / EN 10025 S 275 JR

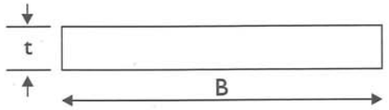
Size AxB(mm)	kg/mtr	Mtrs/Ton	Size(mm)	kg/mtr	Mtrs/Ton
60x40x5.0	3.76	265.95	125x75x12	17.80	56.17
75x50x5.0	4.73	211.40	150x75x9.0	15.30	65.35
75x50x6.0	5.68	176.05	150x75x10.0	17.00	58.82
75x50x8.0	7.60	131.57	150x90x9.0	16.38	61.05
100x50x6.0	6.85	145.98	150x90x10.0	18.20	54.95
100x50x8.0	9.00	111.11	150x90x12.0	21.60	46.29
100x75x7.0	9.32	107.29	150x90x15.0	26.60	37.59
100x75x9.0	11.80	84.75	200x100x10.0	23.00	43.47
100x75x10.0	13.00	76.92	200x100x12.0	27.30	36.63
125x75x7.0	10.62	94.16	200x100x14.0	31.60	31.64
124x75x10.0	15.00	66.65			



11. MILD STEEL FLAT BARS

M.S FLAT BARS - Specification - JIS G 3101 - SS 40 / ASTM A36 / EN 10025 S275 JR





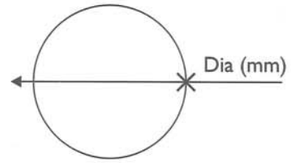
STANDARD DIMENSIONAL PROGRAM

Size (mm)	kg (mtr)	Mtr/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
19.3	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	12	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

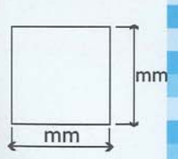
12. MILD STEEL ROUND-SHAFTING -SQUARE BARS, TEE SECTION

STANDARD DIMENSIONAL PROGRAM

Size (mm)	kg/mtr	Mtr/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

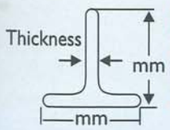


M.S. SQUARE BARS - Specification - JIS G3101 - SS400 / ASTM A36 / EN 10025 S275 JR



Size (mm)	kg/mtr	Mtr/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	Mtr/Ton
20x20x3 mm	0.88	1136
30x30x4 mm	1.77	565
40x40x5 mm	2.96	337
50x50x6 mm	4.44	225

(D) MISCELLANEOUS PRODUCTS

1. GALVANIZED IRON GRATING

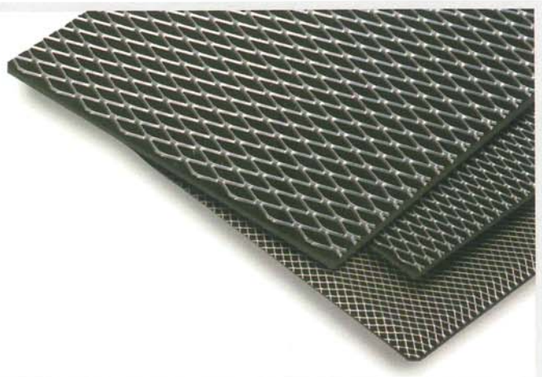
Specification - AS PER EN 10025 S275JR / BS 4360 GR 43 A/ASTM A36

STANDARD DIMENSIONAL PROGRAM

SIZE	Wt/pC(KG)
G.I. GRATING 3'X20'X25'X3MM	100.35
G.I. GRATING 3'X20'X25'X4MM	129
G.I. GRATING 3'X20'X25'X4.5MM	145
G.I. GRATING 3'X20'X30'X4MM	152
G.I. GRATING 3'X20'X30'X4.5MM	171
G.I. GRATING 3'X20'X38'X4MM	188
G.I. GRATING 3'X20'X38'X4.5MM	212
G.I. GRATING 3'X20'X40'X4MM	196
G.I. GRATING 3'X20'X40'X4.5MM	222
G.I. GRATING 3'X20'X50'X4.5MM	273

2. MILD STEEL EXPANDED METAL

Specification - AS PER BS1449 PART 1-1983 HR2 / JIS G3351 STD TYPE



SIZE	Wt/pC(KG)
M.S. EXPANDED METAL 4'X8'X1.8MM	6.23
M.S. EXPANDED METAL 4'X8'X2.0MM	7.46
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

ITEM LIST

1. Galvanized Iron Grating
2. Mild Steel Expanded Metal

APPLICATIONS

1 Structural use
2 Fabrication
3 Construction Industry

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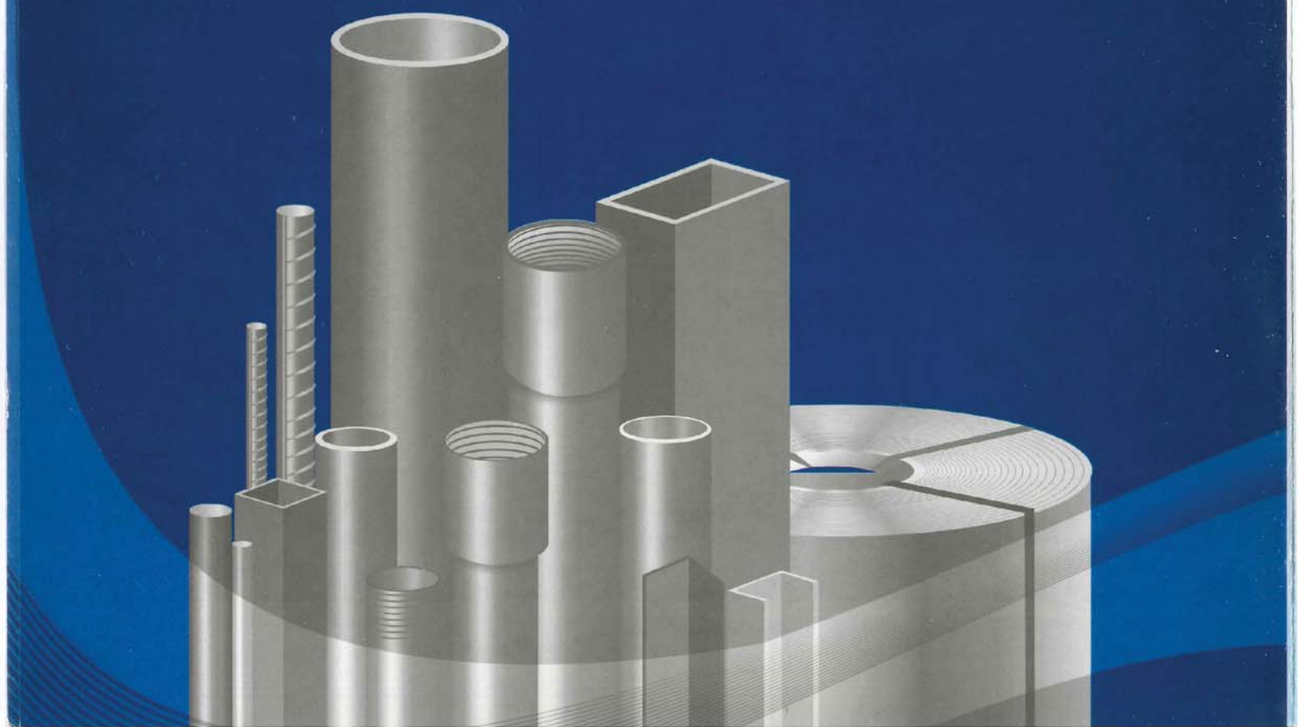
• Shivalaya Township • 52 Crystals • 53 Crystals • Al Hutaib Apartment
• Badri Apartment • Lotus City Township • Mufaddal Park Township

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	NFA A35-501	BS 4360	UNI 7070	UNE36.080	JIS 3101	JIS 3106	IS	CSA G40-21	ASTM	ISO 630
S 185	S 185	ST 33	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	F 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 430 C	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		gr 42,50	
										300W.WT		
											A 573 gr. 58,65,70	
S 355 JR	S 355 JR		E 36.2	50 B	Fe 510 B	AE 355 B	SS 490	SM 490 A	IS 961	350W.WT	A 633	
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 C
	S 355 J2 G3	St 52.3 N		50 D	Fe 510 D	AE 355 D		SS 490 C	Fe 510 WHT			E 355D
S 355 J2	S 355 J2 G4			50 D				SS 490 YA			A 656	
	S 355 K2 G3		E 36.4	50 DD	Fe 510 DD			SS 490 YB			gr. 50	
S 355 K2	S 355 K2 G4			50 D				SM 520 B				
								SM 520 C				
							SS 540				A 709	
	E 295	St 50.2	a 50.2		Fe 490						gr. 36,50,50W	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



CONTENTS

KNOW US

COMPANY

Khambati Steel Trading LLC was established in the year 2000 as an overseas branch in Dubai. It's an initiative of our parent company Mohammed Khambati & Company which is serving in India since last 40 years with head office situated at Indore. Khambati Steel Trading LLC is one of the largest stockist and suppliers of seamless/ ERW/ SAW pipes, MS/GI sheet, angles, channels, beams, structural steel & pipe fittings in U.A.E., neighbouring Gulf countries and Africa.

HIGHLIGHTS

The greatest strength of the company is the wide product range available in all international specifications and grades, catering the requirements of oil, gas, petrochemicals, construction, fabrication and engineering industry. Company has number of warehouses at different locations where stocks of structure steel items like angle, channels, beams, seamless and ERW pipes, fittings, GI & MS coils, plates, deform & round bars etc. are available for prompt delivery.

RELIABLE SUPPLIER

Khambati Steel Trading LLC, a subsidiary company of Khambati Group has developed as a strong and reliable steel supplier. The company has earned a credit of being a company where all customers' expectations with respect to delivery, quality of products and competitive price are met.

FACILITIES

The company has a store yard of 125,000 sq. ft., located in Al- Quoz, Industrial Area-3. It has the location advantage of easy access to main roads leading to other Emirates, neighbouring Gulf states and sea ports.

AVAILABLITY & QUALITY CONTROL

The company holds bulk stocks of structural steel, coils, pipes and fittings at any given point of time and has nearly 20 years of professional experience in oil/ gas/ marine/ petrochemical industry. We are reputed suppliers with international quality credentials from Middle East, Europe, Indian subcontinent, far east and CIS countires. The company is well equipped with technical support for quality assurance personnel entitiled to the inspection and approval of all incoming and outgoing materials. The various departments like marketing, imports, exports, stores, dispatch and accounts work in coherence under the able guidance of group MD.

KHAMBATI
STEEL TRADING L.L.C.

APPLICATIONS

- IRRIGATION
- BOREWELL
- BUILDING CONSTRUCTION
- CONSTRUCTION OF BRIDGES
- ELECTRICAL PANEL
- ENGINEERING PURPOSE
- FIRE FIGHTING
- GREEN HOUSES
- HOUSEHOLD APPLICATIONS
- INDUSTRIAL STRUCTURES
- INFRASTRUCTURE PROJECTS
- INDUSTRIAL SHEDS
- METRO RAIL PROJECT
- NATURAL GAS PIPELINE
- LANDSCAPING PROJECTS
- AUTOMOBILE INDUSTRIES
- OIL FIELDS
- OIL REFINARY
- PETRO CHEMICAL INDUSTRY
- PLUMBING AND SANITARY
- RAILING AND SAFETY PURPOSE
- RAILWAYS
- SCAFFOLDING
- SHIP BUILDINGS AND YARDS
- STEEL TRUSSES & PURLINS
- TUBULAR POLES
- THERMAL POWER PLANTS
- WAREHOUSE SHEDS
- WATER SUPPLY LINE
- WIND MILL