



HORIZON
STEEL

Helping various industries build reliable,
durable, and sustainable structures.

PRODUCT CATALOGUE 2023

www.horizonsteel.ae



ABOUT HORIZON STEEL

Specializing in helping various industries build sturdy and efficient structures. Our helpful experts are right around the corner to provide you with what you need – whether it be design ideas or the materials to make them. At Horizon Steel, we produce quality products and services, at amenable prices.

25+

Our Experience (Years)

Horizon Steel has earned a reputation for consistently providing high-standard steel for 25 years.

100K+

Tonnage of steel Supplied

Across various market sectors, meeting customers' varied demands throughout the GCC region.

13

Countries

We continue to expand our operations with the help of our loyal customers' faith, support and trust.



KEY MARKET SECTORS

Our goal is to enhance the UAE's industrial base by providing a wide range of steel products and services. Delivering unparalleled quality and exceptional customer service has strengthened our position as a regional leader.

Industrial Infrastructure

We deliver quality steel sheets and frame structures to help build iconic structures, buildings and on-shore projects. Our steel solutions have been successfully integrated into some of the world's most stunning architectural and structural projects.

Marine Vessels and Essential Equipment

We provide a range of shipbuilding and marine engineering steel products, including steel plates, steel sections, and specialty steels. The materials we produce meet the strictest standards set forth by classification societies, which helps you build sustainable structures. In addition, the unique characteristics of these materials make our products ideal for applications in marine environments where corrosion resistance is essential.

Off-Shore Infrastructure

Our products are designed to withstand harsh environmental conditions (including corrosion from saltwater, violent storms, and shallow temperatures). Moreover, we provide top-notch solutions to the technological challenges inherent in offshore projects such as wind farms, subsea structures, jack-up platforms, and cargo vessels facilities.

Oil and Gas Infrastructure

When it comes to the oil and gas industry, steel is an essential resource. It's widely used in all marketplace areas, including construction, production, and logistics. Whether you need seamless, welded tubing, or another type to aid your oil and gas extraction, refinement, or logistical needs, Horizon Steel is always ready to serve you.

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PRODUCTS AND SERVICES OVERVIEW

We provide the following high-quality products to our clients throughout the GCC, Asia and Africa.

PRODUCTS
M.S. Equal Angles
M.S. Unequal Angles
M.S. Flat Bars
M.S. Round Bars
M.S. Shafting Bars
M.S. Square Bars
M.S. Hollow Sections (SHS, RHS)
M.S. Checkered Plates
Expanded Metals
G.I. Gratings
Pipes
I Beams
H Beam
IPE / IPEAA

PRODUCTS
HEA / HEAA
HEB
IPN
Universal Beams (UB)
Universal Column (UC)
MS Channels (RSC)
UPE & UPN
Parallel Flange Channels
M.S. Plates
Boiler Quality Plates
Wear Resistant Plates
CRC (Cold Rolled Sheets)
G.I. Plain Sheet
Coils and W-Sections

SPECIFICATIONS	
Equal/Un Equal Angles	ASTM A36 EN 10025 S275JR
Flat/Round/Shafting/Square Bars	ASTM A36 EN 10025 S275JR JIS G3101 SS400
Hollow Sections	JIS G3466 STKR 400 ASTM A500 GR.A/B
Checkered Plates	ASTM A36 EN 10025 S275JR
G.I.Gratings	ASTM A36 EN 10025 S275JR
Pipes	ASTM A53 GR.A/B API 5L Gr.B ASTM A106 GR.B
I. Beams/H.Beams	JIS G3101 SS400
IPE Sections	EN 10025 S275JR ASTM A36 S355JR ASTM A 572 GR.50
HEA / HEB Sections	EN 10025 S275JR ASTM A36 S355JR ASTM A 572 GR.50
W-Sections	ASTM A36
Universal Beams/Columns	EN 10025 S275JR S355JR ASTM A 572 GR.50
Channels	EN 10025 S275JR JIS G3101 SS400
UPN Channels	EN 10025 S275JR
PF Channels	EN 10025 S275JR S355JR
Commercial Plates	ASTM A36 EN 10025 S275JR JIS G3101 SS400 ST 37-2
Boiler Quality Plates	ASTM A 516 GR.70 SA 516 GR.60/65/70
High Grade Plates	ASTM A572 GR.50 50-D 50-DD S355JR S355J2 S355J2+N S355JO S355J2G3 S355K2 S355K2+N S355K2G3 S355K2G4 S355EMZ EH36
Coils	ASTMA 36 ASTMA36 + B S275JR SS400 JIS G 3101 JIS G 3131
Third Party Certifications	ABS LRS DNV GL BV

Whatever your steel requirements, Horizon Steel has you covered. We stock the widest range of steel products in the region, and can carry out large or small steel cutting and galvanizing requests – quickly and to your individual specifications.

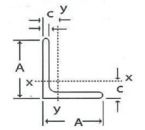
Our high precision coil cutting service is carried out by a state-of-the-art cut to length machine. The machine has the ability to cut hot rolled and checkered steel coils from 2 to 16 millimeters thickness, 1 to 2 meters wide and up to 25 meters in length. This highly-precise process is overseen by experienced and highly trained professionals and a robust quality control policies and procedures to ensure efficient and accurate results, every time.

Our high quality and cost effective galvanizing service follows a three-stage hot dip process – pre-treatment, galvanizing and inspection – to ensure the highest quality and customer satisfaction standards in the industry. Our galvanizing kettle's large size – 13 meters long by 1.6 meters wide by 2.3 meters deep – allows us to galvanize your large objects in a single dip. All the steel processed at our plant meet or exceed the highest international galvanizing standards, including:

American: ASTM, A123 & A153/A153M
British: BS729, BS/EN/ISO 1461
Australian: AS1214, AS/NZS 4680
Japanese: JIS H8641 and 9124
German: DIN50976

M.S. EQUAL ANGLES

Specification – JIS G3101 – SS400 / ASTM A36 / EN 10025 S275 JR



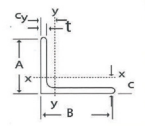
Size (mm)	kg/mtr	Mtrs/Ton
20 X 20 X 3.0	0.91	1099
25 X 25 X 2.5	0.95	1052
25 X 25 X 2.7	1.02	980
25 X 25 X 3.0	1.14	877
30 X 30 X 2.5	1.14	877
30 X 30 X 2.7	1.23	813
30 X 30 X 3.0	1.37	730
30 X 30 X 4.0	1.82	549
30 X 30 X 5.0	2.28	438
38 X 38 X 2.5	1.44	694
38 X 38 X 2.7	1.56	641
38 X 38 X 3.0	1.73	578
38 X 38 X 3.7	2.13	469
38 X 38 X 4.0	2.31	433
38 X 38 X 4.7	2.71	369
40 X 40 X 2.5	1.52	657
40 X 40 X 3.0	1.82	549
40 X 40 X 3.7	2.24	446
40 X 40 X 4.0	2.43	411
40 X 40 X 4.7	2.85	350
40 X 40 X 5.0	3.03	330
40 X 40 X 6.0	3.64	274
50 X 50 X 3.0	2.28	438
50 X 50 X 3.7	2.81	355
50 X 50 X 4.0	3.03	330

Size (mm)	kg/mtr	Mtrs/Ton
20 X 20 X 3.0	0.91	1099
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50 X 50 X 3.0	2.28	438
50 X 50 X 3.7	2.81	355
50 X 50 X 4.0	3.03	330

M.S. UNEQUAL ANGLES

Specification – JIS G3101 – SS400 / ASTM A36 / EN 10025 S275 JR



Size (mm)	kg/mtr	Mtrs/Ton
20 X 20 X 3.0	3.76	265.95
75 X 50 X 5.0	4.73	211.40
75 X 50 X 6.0	5.68	176.05
75 X 50 X 8.0	7.60	131.57
100 X 50 X 6.0	6.85	145.98
100 X 50 X 8.0	9.00	111.11
100 X 75 X 7.0	9.32	107.29

Size (mm)	kg/mtr	Mtrs/Ton
100 X 75 X 9.0	11.80	84.75
100 X 75 X 10.0	13.00	76.92
125 X 75 X 7.0	10.62	94.16
125 X 75 X 10.0	15.00	66.65
125 X 75 X 12.0	17.80	56.17
150 X 75 X 9.0	15.30	65.35
150 X 75 X 10.0	17.00	58.82

Size (mm)	kg/mtr	Mtrs/Ton
150 X 90 X 9.0	16.38	61.05
150 X 90 X 10.0	18.20	54.95
150 X 90 X 12.0	21.60	46.29
150 X 90 X 15.0	26.60	37.59
200 X 100 X 10.0	23.00	43.47
200 X 100 X 12.0	27.30	36.63
200 X 100 X 14.0	31.60	31.64

M.S. FLAT BARS

Specification – JIS G3101 – SS40 / ASTM A36 / EN 10025 S275 JR



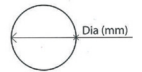
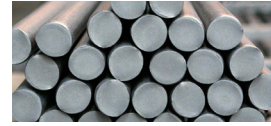
Size (mm)	kg/mtr	Mtrs/Ton
12 X 4.0	0.37	2702
13 X 3.0	0.31	3225
13 X 4.5	0.46	2174
16 X 3.0	0.38	2631
16 X 4.5	0.56	1785
19 X 3.0	0.45	2222
19 X 4.5	0.67	1492
19 X 6.0	0.89	1123
20 X 5.0	0.78	1282
20 X 6.0	0.94	1064
20 X 8.0	1.25	800
20 X 10.0	1.57	637
25 X 3.0	0.59	1695
25 X 4.0	0.78	1282
25 X 4.5	0.88	1136
25 X 5.0	0.98	1020
25 X 6.0	1.17	854
28 X 8.0	1.57	637
25 X 9.0	1.76	568
25 X 12.0	2.35	425
30 X 3.0	0.71	1408
30 X 4.5	1.06	943
30 X 5.0	1.18	847
30 X 6.0	1.41	709
30 X 8.0	1.88	532
30 X 12.0	2.83	353
30 X 3.0	0.75	1333
32 X 4.5	1.13	885
32 X 6.0	1.50	666
32 X 9.0	2.26	442
32 X 12.0	3.01	332
38 X 3.0	0.89	1123
38 X 4.0	1.19	840
38 X 4.5	1.34	746
38 X 6.0	1.79	558
38 X 9.0	2.68	373
38 X 12.0	3.58	279
38 X 16.0	4.77	209

Size (mm)	kg/mtr	Mtrs/Ton
40 X 3.0	0.94	1064
40 X 4.5	1.41	709
40 X 5.0	1.57	637
40 X 6.0	1.88	532
40 X 8.0	2.51	398
40 X 10.0	3.14	318
40 X 12.0	3.76	266
40 X 16.0	5.02	199
50 X 3.0	1.17	854
50 X 4.5	1.76	568
50 X 5.0	1.96	510
50 X 6.0	2.35	425
50 X 8.0	3.14	318
50 X 9.0	3.53	283
50 X 10.0	3.92	255
50 X 12.0	4.70	212
50 X 16.0	6.28	159
50 X 20.0	7.85	127
50 X 25.0	9.81	102
60 X 6.0	2.82	354
60 X 8.0	3.76	266
60 X 10.0	4.71	212
65 X 5.0	2.55	392
65 X 6.0	3.06	326
65 X 8.0	4.08	245
65 X 9.0	4.59	217
65 X 12.0	6.12	163
70 X 16.0	3.29	304
70 X 8.0	439.00	227
70 X 10.0	5.49	182
70 X 12.0	659.00	151
75 X 6.0	3.53	283
75 X 9.0	5.29	189
75 X 12.0	7.06	141
75 X 16.0	9.42	106
75 X 19.0	11.18	89
80 X 6.0	3.76	266
80 X 8.0	5.02	199

Size (mm)	kg/mtr	Mtrs/Ton
80 X 10.0	6.28	159
100 X 6.0	4.71	212
100 X 8.0	6.28	159
100 X 9.0	7.06	141
100 X 10.0	7.85	127
100 X 12.0	9.42	106
100 X 16.0	12.56	79
100 X 19.0	14.91	67
120 X 6.0	5.65	177
120 X 8.0	7.53	133
120 X 10.0	9.42	106
120 X 12.0	1130.00	88
120 X 16.0	15.07	66
125 X 6.0	5.88	170
125 X 8.0	7.85	127
125 X 9.0	8.83	113
125 X 10.0	9.81	102
125 X 12.0	11.77	85
125 X 16.0	15.70	63
150 X 5.0	5.88	170
150 X 6.0	7.06	141
150 X 8.0	9.42	106.00
150 X 9.0	10.59	94.00
150 X 10.0	11.77	85.00
150 X 12.0	14.13	71.00
150 X 16.0	18.84	53.00
150 X 19.0	22.37	48.00
175 X 8.0	10.99	91.00
180 X 10.0	14.13	71.00
180 X 18.0	25.43	39.00
200 X 6.0	9.42	106.00
200 X 8.0	12.56	79.00
200 X 9.00	14.13	71.00
200 X 10.0	15.70	64.00
200 X 12.0	18.84	53.00
200 X 16.0	25.12	40.00
200 X 20.0	31.40	32.00
200 X 25.0	39.25	25.00

M.S. ROUND, SHAFTING BARS

Specification – JIS G3101 – SS400 / ASTM A36 / EN 10025 S275 JR

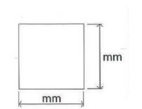


Size (mm)	kg/mtr	Mtrs/Ton
6.0	0.39	2564
10.0	0.61	1639
12.0	0.69	1123
16.0	1.57	637
19.0	2.22	450
20.0	2.46	406
22.0	2.97	336
25.0	3.64	260
28.0	4.82	207
30.0	5.53	180
32.0	6.30	158
36.0	7.97	125
38.0	8.88	112
40.0	9.84	101
42.0	10.85	92
45.0	12.46	80
50.0	15.38	65
55.0	18.61	53
57.0	19.99	50
58.0	20.69	48
60.0	22.15	45

Size (mm)	kg/mtr	Mtrs/Ton
63.5	24.80	40
65.0	25.99	38
70.0	30.15	33
75.0	34.60	29
80.0	39.38	25
85.0	44.45	22
87.0	46.57	21
90.0	49.84	20
100.0	61.53	16
110.0	74.45	13
120.0	88.60	11
125.0	96.14	10
130.0	103.99	9
150.0	138.45	7
160.0	157.52	6
165.0	167.52	6
170.0	177.83	5
190.0	222.13	4
200.0	246.13	4
250.0	384.58	2

M.S. SQUARE BARS

Specification – JIS G3101 – SS400 / ASTM A36 / EN 10025 S275 JR

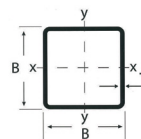


Size (mm)	kg/mtr	Mtrs/Ton
8.0	0.50	2000
10.0	0.79	2565
12.5	1.22	820
16.0	2.01	497
20.0	3.14	318
25.0	4.91	204
30.0	7.07	141
32.0	8.04	125

Size (mm)	kg/mtr	Mtrs/Ton
40.0	12.60	80
45.0	15.90	63
50.0	19.60	51
60.0	28.30	35
75.0	44.20	23
90.0	63.60	16
100.0	78.50	13

M.S. SQUARE HOLLOW SECTIONS

Specification – JIS G3466 STKR 400



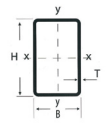
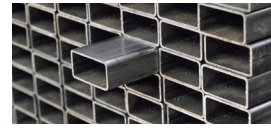
Size (mm)	kg/mtr
16 X 16 X 1.2	0.57
16 X 16 X 1.5	0.70
16 X 16 X 2.0	0.92
19 X 19 X 1.2	0.64
19 X 19 X 1.5	0.78
19 X 19 X 2.0	0.99
19 X 19 X 2.5	1.39
19 X 19 X 3.0	1.64
25 X 25 X 1.2	0.87
25 X 25 X 1.5	1.06
25 X 25 X 2.0	1.37
25 X 25 X 2.3	1.63
25 X 25 X 2.5	1.69
25 X 25 X 3.0	1.89
30 X 30 X 1.2	1.06
30 X 30 X 1.5	1.30
30 X 30 X 2.0	1.68
30 X 30 X 2.5	2.10
30 X 30 X 3.0	2.36
30 X 30 X 4.0	3.51
38 X 38 X 1.5	1.68
38 X 38 X 1.5	1.68
38 X 38 X 2.0	2.18
38 X 38 X 2.5	2.75
38 X 38 X 3.0	3.12
38 X 38 X 4.0	3.96
40 X 40 X 1.5	1.81
40 X 40 X 2.0	2.37
40 X 40 X 2.5	2.92
40 X 40 X 3.0	3.45
40 X 40 X 4.0	4.46
50 X 50 X 1.5	2.28
50 X 50 X 2.0	2.96
50 X 50 X 2.5	3.71
50 X 50 X 3.0	4.28
50 X 50 X 4.0	5.51
60 X 60 X 1.5	2.76
60 X 60 X 2.0	3.56
60 X 60 X 2.5	4.47

Size (mm)	kg/mtr
60 X 60 X 4.5	7.82
75 X 75 X 2.0	4.51
75 X 75 X 2.5	5.63
75 X 75 X 3.0	6.60
75 X 75 X 4.0	8.60
75 X 75 X 4.5	9.90
80 X 80 X 2.0	4.83
80 X 80 X 2.5	6.01
80 X 80 X 3.0	7.07
80 X 80 X 4.0	9.22
80 X 80 X 4.5	10.60
80 X 80 X 5.0	11.27
80 X 80 X 6.0	14.48
100 X 100 X 2.0	6.20
100 X 100 X 2.5	7.55
100 X 100 X 3.0	8.96
100 X 100 X 4.0	11.94
100 X 100 X 4.5	13.37
100 X 100 X 5.0	14.66
100 X 100 X 5.5	15.99
100 X 100 X 6.0	17.28
100 X 100 X 6.0	17.28
120 X 120 X 4.00	14.40
120 X 120 X 5.00	17.80
120 X 120 X 5.60	19.90
120 X 120 X 6.00	21.20
120 X 120 X 6.30	22.20
120 X 120 X 7.10	24.70
120 X 120 X 8.00	27.60
120 X 120 X 8.80	30.10
120 X 120 X 10.00	33.70
120 X 120 X 12.00	39.50
120 X 120 X 12.50	40.90
120 X 120 X 12.50	40.90
125 X 125 X 3.00	11.38
125 X 125 X 3.20	12.13
125 X 125 X 4.50	17.06
125 X 125 X 6.00	27.30
140 X 140 X 5.60	23.40

Size (mm)	kg/mtr
140 X 140 X 7.10	29.20
140 X 140 X 8.00	32.60
140 X 140 X 8.80	35.60
140 X 140 X 10.00	40.00
140 X 140 X 12.00	47.00
140 X 140 X 12.50	48.70
150 X 150 X 5.00	22.60
150 X 150 X 5.60	25.10
150 X 150 X 6.00	26.80
150 X 150 X 6.30	28.10
150 X 150 X 7.10	31.40
150 X 150 X 8.00	35.10
150 X 150 X 8.80	38.40
150 X 150 X 10.00	43.10
150 X 150 X 12.00	50.80
150 X 150 X 12.50	52.70
150 X 150 X 16.00	65.20
200 X 200 X 5.00	30.40
200 X 200 X 5.60	33.90
200 X 200 X 6.00	36.20
200 X 200 X 7.10	42.60
200 X 200 X 7.10	42.60
200 X 200 X 8.00	47.70
200 X 200 X 8.80	52.20
200 X 200 X 10.00	58.80
200 X 200 X 12.00	69.60
200 X 200 X 12.50	72.30
200 X 200 X 14.20	81.10
200 X 200 X 16.00	90.30
250 X 250 X 5.00	38.30
250 X 250 X 5.60	B 42.7
250 X 250 X 6.00	45.70
250 X 250 X 7.10	53.70
250 X 250 X 8.00	60.30
250 X 250 X 8.80	66.13
250 X 250 X 10.00	74.50
250 X 250 X 12.00	88.50
250 X 250 X 12.50	91.90
250 X 250 X 14.20	103.00

M.S. RECTANGLE HOLLOW SECTIONS

Specification – JIS G3466 STKR 400



Size (mm)	kg/mtr
40 X 20 X 1.2	1.06
40 X 20 X 1.5	1.30
40 X 20 X 2.0	1.68
40 X 20 X 2.5	2.10
40 X 20 X 3.0	2.36
50 X 25 X 1.5	1.65
50 X 25 X 2.0	2.15
50 X 25 X 2.5	2.71
50 X 25 X 3.0	3.07
50 X 25 X 4.0	4.23
50 X 30 X 1.5	1.81
50 X 30 X 2.0	2.37
50 X 30 X 2.5	2.92
50 X 30 X 3.0	3.45
50 X 30 X 4.0	4.46
60 X 30 X 1.5	2.00
60 X 30 X 2.0	2.62
60 X 30 X 2.5	3.32
60 X 30 X 3.0	3.78
60 X 30 X 4.0	5.42
60 X 40 X 1.5	2.28
60 X 40 X 2.0	2.94
60 X 40 X 2.5	3.71
60 X 40 X 3.0	4.25
60 X 40 X 4.0	5.46
75 X 50 X 1.5	2.90
75 X 50 X 2.0	3.85
75 X 50 X 2.5	4.80
75 X 50 X 3.0	5.73
75 X 50 X 4.0	7.58
80 X 40 X 1.5	2.71
80 X 40 X 2.0	3.56

Size (mm)	kg/mtr
80 X 40 X 2.5	4.47
80 X 40 X 3.0	5.19
80 X 40 X 4.0	6.71
100 X 50 X 2.0	4.51
100 X 50 X 2.5	5.63
100 X 50 X 3.0	6.60
100 X 50 X 4.0	8.60
100 X 50 X 4.5	9.90
100 X 50 X 5.0	10.49
100 X 50 X 6.0	12.27
120 X 60 X 2.5	6.78
120 X 60 X 3.0	8.10
120 X 60 X 4.0	10.70
120 X 60 X 4.5	11.99
120 X 60 X 5.0	13.30
125 X 75 X 2.5	7.55
125 X 75 X 3.0	9.03
125 X 75 X 4.0	12.17
125 X 75 X 4.5	13.37
125 X 75 X 5.0	14.80
125 X 75 X 5.5	16.68
125 X 75 X 6.0	17.61
150 X 75 X 2.5	8.68
150 X 75 X 3.0	10.46
150 X 75X 4.0	13.85
150 X 75X 4.5	15.44
150 X 75X 5.0	17.23
150 X 75X 5.5	18.83
150 X 75 X 6.0	20.49
150 X 100 X 4.00	15.10
150 X 100 X 5.00	18.60
150 X 100 X 5.60	20.70

Size (mm)	kg/mtr
150 X 100 X 6.00	22.10
150 X 100 X 6.30	23.10
150 X 100 X 7.10	25.90
150 X 100 X 8.00	28.90
150 X 100 X 8.80	31.50
150 X 100 X 10.00	35.30
150 X 100 X 12.00	41.40
150 X 100 X 12.50	42.80
200 X 100 X 5.00	22.60
200 X 100 X 5.60	25.10
200 X 100 X 6.00	26.80
200 X 100 X 6.30	28.10
200 X 100 X 7.10	31.40
200 X 100 X 8.00	35.10
200 X 100 X 8.80	38.40
200 X 100 X 10.00	43.10
200 X 100 X 12.00	50.80
200 X 100 X 12.50	52.70
200 X 100 X 14.20	58.90
200 X 100 X 16.00	65.20
300 X 200 X 5.00	38.30
300 X 200 X 5.60	42.70
300 X 200 X 6.00	45.70
300 X 200 X 6.30	47.90
300 X 200 X 7.10	53.70
300 X 200 X 8.00	60.30
300 X 200 X 8.80	66.00
300 X 200 X 10.00	74.50
300 X 200 X 12.00	88.50
300 X 200 X 12.50	91.90
300 X 200 X 14.20	103.00
300 X 200 X 16.00	115.00



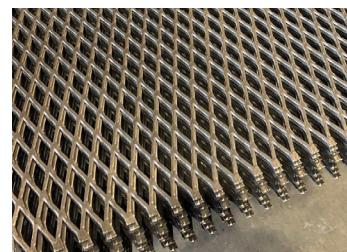
M.S. CHECKERED PLATES

Specification –

Size / width	Thickness	Grade
4' X 8'	2.8MM TO 12MM	ASTM A36
5' X 20'	6MM TO 12MM	ASTM A36

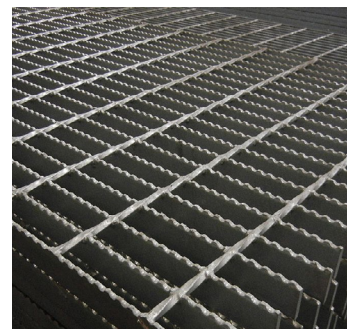
M.S. EXPANDED METAL Specification – As Per BS1449 Part 1 – 1983 HR2 / JIS G335 STD TYPE

Size	Wt/pc (kg)	Size	Wt/pc (kg)
M.S. EXPANDED METAL 4' X 8' X 2.3MM	9.48	M.S. EXPANDED METAL 4' X 8' X 6.0MM	54.40
M.S. EXPANDED METAL 4' X 8' X 3.2MM	17.60	M.S. EXPANDED METAL 4' X 8' X 8.0MM	93.30
M.S. EXPANDED METAL 4' X 8' X 4.5MM	30.90		



G.I. GRATINGS Specification – As Per EN 10025 S275JR / BS 4360 GR 43 A/ASTM A36

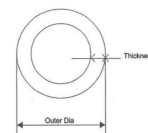
Size	Wt/pc (kg)	Size	Wt/pc (kg)
G.I. GRATING 3' X 20' X 25' X 3MM	100.35	G.I. GRATING 3' X 20' X 38' X 4MM	188
G.I. GRATING 3' X 20' X 25' X 4MM	129	G.I. GRATING 3' X 20' X 38' X 4.5MM	212
G.I. GRATING 3' X 20' X 25' X 4.5MM	145	G.I. GRATING 3' X 20' X 40' X 4MM	196
G.I. GRATING 3' X 20' X 30' X 4MM	152	G.I. GRATING 3' X 20' X 40' X 4.5MM	222
G.I. GRATING 3' X 20' X 30' X 4.5MM	171	G.I. GRATING 3' X 20' X 50' X 4.5MM	273



M.S. PIPES

M.S. PIPES

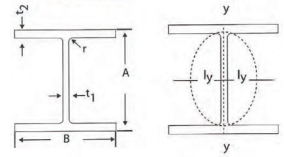
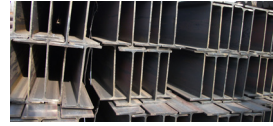
Specification – As per ASTM A-53 Type E. Grade A & B Pipe



Nominal Size	Outside Diameter of Black Tube				Thickness		Calculated Weight				Hydrostatic Test Pressure	
	max		min				Plain Ends		Threads & 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	0.86	21.70	0.809	20.50	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 (4.83)	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	13.70	2030 (14.00)	2370 (16.43)
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	10.30	53.52	79.64			1150 (7.93)	

JIS BEAMS

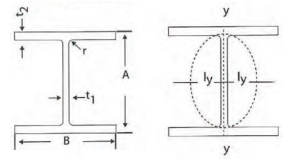
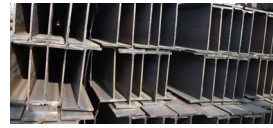
Specification –As Per JIS G3101 SS400 /ASTM A36 /EN 10025 S275 JR



Size	Weight	Depth of Section	Flange Width	Thickness		Corner Radius	Sectional Area	Moment of Inertia		Radius of Gyration		Modiuid of Section	
		(A)	(B)	Web (T1)	Web (T2)	(x)		Jx	Jy	Tx	Ty	Zx	Zy
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	21.9	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
150x150	31.5	150	150	7	10	11	40.14	1640	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	84.7	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	298	299	9	14	18	110.8	18800	6240	13	7.51	1270	417
	94	300	300	10	15	18	119.8	20400	6750	13.1	7.51	1360	450
	106	300	300	15	15	18	134.8	21500	7100	12.6	7.26	1440	466
	106	304	304	11	17	18	134.8	23400	7730	13.2	7.57	1540	514
350x350	106	338	338	13	13	20	135.3	28200	9380	14.4	8.33	1670	534
	115	344	344	10	16	20	146	33300	11200	15.1	8.78	1940	646
	131	344	344	16	16	20	166.6	35300	11800	14.6	8.43	2050	669
	137	350	350	12	19	20	173.9	40300	13600	15.2	8.84	2300	776
	156	350	350	19	19	20	198.4	42800	14400	14.7	8.53	2450	809
	159	356	356	14	22	20	202.2	47600	16000	15.3	8.9	2670	909
400x400	140	388	402	15	15	22	178.5	49000	16300	16.6	9.54	2520	809
	147	394	398	11	18	22	186.8	56100	18900	17.3	10.1	2850	951
	168	394	405	18	18	22	214.1	59700	20000	16.7	9.65	3030	985
	172	400	400	13	21	22	218.7	66600	22400	17.5	10.1	3330	1120
	197	400	408	21	21	22	250.7	70900	23800	16.8	9.75	3540	1170
	200	406	403	16	24	22	254.9	78000	26200	17.5	10.1	3840	1300
	232	414	405	18	28	22	295.4	92800	31000	17.7	10.2	4480	1530
	283	428	407	20	35	22	360.7	119000	39400	18.2	10.4	5570	1930
	415	458	417	30	50	22	528.6	187000	60500	18.8	10.7	8170	2900
	605	498	432	45	70	22	770.1	298000	94400	19.7	11.1	12000	4370

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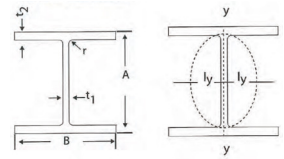
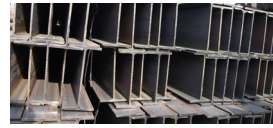
Specification –As Per JIS G3101 SS400 /ASTM A36 /EN 10025 S275 JR



Size	Weight	Depth of Section	Flange Width	Thickness		Corner Radius	Sectional Area	Moment of Inertia		Radius of Gyration		Modiuid of Section	
		(A)	(B)	Web (T1)	Web (T2)	(x)		Jx	Jy	Tx	Ty	Zx	Zy
mm	kg/m	mm	mm	mm	mm	mm	cm	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
100x50	17.2	100	50	5	7	8	11.85	187	14.8	3.98	1.12	37.5	5.91
125x60	9.3	125	60	6	8	9	16.84	413	29.2	4.95	1.32	66.1	9.73
150x75	13.2	150	75	5	7	8	17.85	666	49.5	6.11	1.66	88.8	13.2
150x100	14	148	100	5	9	11	26.84	1020	151	6.17	2.37	138	30.1
175x90	21.1	175	90	5	8	9	23.04	1210	97.5	7.26	2.06	139	21.7
175x175	18.1	175	175	7.5	11	12	51.21	2880	984	7.5	4.38	330	112
200x100	40.2	198	99	4.5	7	11	23.18	1580	114	8.26	2.21	160	23
	18.2	200	100	5.5	8	11	27.6	1840	134	8.24	2.22	184	26.8
200x150	21.3	194	150	6	9	13	39.01	2690	507	8.3	3.61	277	67.6
	30.6	200	200	8	12	13	63.53	4720	1600	8.62	5.02	472	160
250x125	49.9	248	124	5	8	12	32.68	3540	255	10.4	2.79	285	411
	25.7	250	125	6	9	12	37.66	4050	294	10.4	2.79	324	47
250x175	29.6	244	175	7	11	16	56.24	6120	984	10.4	4.18	502	113
300x150	44.1	298	149	5.5	8	13	40.8	6320	442	12.4	3.29	424	59.3
	32	300	150	6.5	9	13	46.38	7210	508	12.4	3.29	481	67.7
300x200	36.7	294	200	8	12	18	72.38	11300	1600	12.5	4.71	771	160
	56.8	298	201	9	14	18	82.36	13300	1900	12.6	4.71	893	189
205x175	65.4	346	174	6	9	14	52.7	11100	792	14.5	3.88	641	91
	41.4	350	175	7	11	14	63.1	13600	984	14.7	3.95	775	112
350x250	49.6	336	249	8	12	20	88.1	18500	3090	14.5	5.92	1100	248
	69.2	340	250	9	14	20	101.15	21700	3650	14.6	6	1280	292
400x200	79.7	396	199	7	11	16	72.16	20000	1450	16.7	4.48	1010	145
	56.6	400	200	8	13	16	84.12	23700	1710	16.8	4.54	1190	174
400x300	66	386	299	9	14	22	120.1	33700	6240	16.7	7.81	1740	418
	94.3	390	300	10	16	22	136	38700	7210	16.9	7.28	1980	481
450x200	107	446	199	8	12	18	84.3	28700	1380	18.5	4.33	1290	159
	66.2	450	200	9	14	18	96.76	33500	1870	18.6	4.4	1490	187
	76	428	407	20	35	22	360.7	119000	39400	18.2	10.4	5570	1930

JIS BEAMS

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



Size	Weight	Depth of Section	Flange Width	Thickness		Corner Radius	Sectional Area	Moment of Inertia		Radius of Gyration		Modiuid of Section	
		(A)	(B)	Web (T1)	Web (T2)	(x)		Jx	Jy	Tx	Ty	Zx	Zy
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	46800	6690	18.6	7.04	2160	448
	124	440	300	11	18	24	157.4	56100	8110	18.9	7.18	2550	541
500x200	79.5	496	199	9	14	20	101.3	41900	1840	20.3	4.27	1690	185
	89.6	500	200	10	16	20	114.2	47800	2140	20.5	4.33	1910	214
	103	506	201	11	19	20	131.3	56500	2580	20.7	4.43	2230	257
500x300	114	482	300	11	15	26	145.5	60400	6760	20.4	6.82	2500	451
	128	488	300	11	18	26	163.5	71000	8110	20.8	7.04	2910	541
600x200	94.6	596	199	10	15	22	120.5	68700	1980	23.9	4.05	2310	199
	106	600	200	11	17	22	134.4	77600	2280	24	4.12	2590	228
	120	606	201	12	20	22	152.5	90400	2720	24.3	4.22	2980	271
	134	612	202	13	23	22	107.7	103000	3180	24.6	4.31	3380	314
600x300	137	582	300	12	17	28	174.5	103000	7670	24.3	6.63	3530	511
	151	588	300	12	20	28	192.5	118000	9020	24.8	6.85	4020	601
	175	594	302	14	23	28	22.4	137000	10600	24.9	6.9	4620	701
700x300	166	692	300	13	20	28	211.5	172000	9020	28.6	6.53	4980	602
	185	700	300	13	24	28	235.5	201000	10800	29.3	6.78	5760	722
	215	708	302	15	28	28	273.6	237000	12900	29.4	6.89	6700	853
800x300	191	792	300	14	22	28	243.4	254000	9930	32	6.39	6410	662
	210	800	300	14	26	28	267.4	292000	11700	33	6.62	7290	782
	241	808	302	16	30	28	307.6	339000	13800	33.2	6.7	8400	915
900x300	213	890	299	15	23	28	270.9	345000	10300	35.7	6.16	7760	685
	243	900	300	16	28	28	309.8	411000	12600	36.4	6.39	9140	843
	286	912	302	18	34	28	364	498000	15700	37	6.56	10900	1040

IPE / IPEAA

Specification –As Per ASTM A36 / EN 10025 S275JR

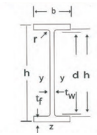


Designation	G kg/m	h mm	b mm	Tw mm	Tf mm	r mm	A cm²	Hj mm	d mm
IPE 100 AA	6.72	97.2	55	3.6	4.5	7	8.56	88.6	74.6
IPE 100	8.1	100	55	4.1	5.7	7	10.3	88.6	74.6
IPE 120 AA	8.66	118	64	3.8	5.1	7	11	107.4	93.4
IPE 120	10.4	120	64	4.4	6.3	7	13.2	107.4	93.4
IPE 140 AA	10.5	138	73	3.8	5.6	7	13.4	126.2	112.2
IPE 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	5.9	9	16.2	145.2	127.2
IPE 160	15.8	160	82	5	7.4	9	20.1	145.2	127.2
IPE 160 R	17.7	162	81	5.6	8.5	9	20.6	145	127
IPE 180 AA	15.4	177	91	4.3	6.5	9	19.6	164	146
IPE 180	18.8	180	91	5.3	8	9	23.9	164	146
IPE 180 O	21.3	182	92	6	9	9	27.1	164	146
IPE 180 R	22.1	183	89	6.4	9.5	9	28.1	164	146
IPE 200 AA	18.4	197	100	4.5	7	12	23.5	183	159
IPE 200	22.4	200	100	5.6	8.5	12	28.5	183	159
IPE 200 O	25.1	202	102	6.2	9.5	12	32	183	159
IPE 200 R	26.6	204	98	6.6	10.5	12	33.9	183	159
IPE 220 AA	22.2	217	110	5	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	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

Designation	G kg/m	h mm	b mm	Tw mm	Tf mm	r mm	A cm²	Hj mm	d 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	276	133	7.7	13.1	15	56	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	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	327	160	6.5	10	18	54.7	307	271
IPE 330	49.1	330	160	7.5	11.5	18	62.6	307	271
IPE 330 O	57	334	162	8.5	13.5	18	72.6	307	271
IPE 330 R	60.3	336	158	9.2	14.5	18	76.8	307	271
IPE 360 A	50.2	357.6	170	6.6	11.5	18	64	334.6	298.6
IPE 360	57.1	360	170	8	12.7	18	72.7	334.6	298.6
IPE 360 O	66	364	172	9.2	14.7	18	84.1	334.6	298.6
IPE 360 R	70.3	366	168	9.9	16	18	89.6	334	298
IPE 400 A	57.4	397	180	7	12	21	73.1	373	331
IPE 400	66.3	400	180	8.6	13.5	21	84.5	373	331
IPE 400 O	75.7	404	182	9.7	15.5	21	96.4	373	331
IPE 400 R	81.5	407	178	10.6	17	21	104	373	331
IPE 400 V	84	408	182	10.6	17.5	21	107	373	331
IPE 450 A	67.2	447	190	7.6	13.1	21	85.8	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	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
IPE 240 O	34.3	242	122	7	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

IPE / IPEAA

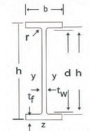
Specification –As Per ASTM A36 / EN 10025 S275JR



Designation	G kg/m	h mm	b mm	Tw mm	Tf mm	r mm	A cm ²	Hj mm	d mm
IPE 500 A	79.4	497	200	8.4	14.5	21	101	468	426
IPE 500	90.7	500	200	10.2	16	21	116	468	426
IPE 500 O	107	506	202	12	19	21	137	468	426
IPE 500 R	111	508	198	12.6	20	21	142	468	426
IPE500 V	129	514	204	14.2	23	21	164	468	426
IPE 500 A	92.1	547	210	9	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	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	514
IPE 600	122	600	220	12	19	24	156	562	514
IPE 600 O	154	610	224	15	24	24	197	562	514
IPE 600 R	144	608	218	14	23	24	184	562	514
IPE 600 V	184	618	228	18	28	24	234	562	514
IPE 750 X 137	137	753	263	11.5	17	17	175	719	685
IPE 750 X 147	147	753	265	13.2	17	17	187	719	685
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	28	17	268	719	685
IPE 750 X 22	222	778	269	17	29.5	17	283	719	685

HEA / HEAA / HEB

Specification – As Per ASTM A 36 / EN 10025 S275JR

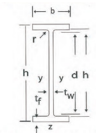


Designation	G kg/m	h mm	b mm	Tw mm	Tf mm	r mm	A cm ²	Hj mm	d mm
HE 100 AA	12.2	91	100	4.2	5.5	12	15.6	80	56
HE 100 A	16.7	96	100	5	8	12	21.2	80	56
HE 100 B	20.4	96	100	6	10	12	26	80	56
HE 120 AA	14.6	109	120	4.2	5.5	12	18.6	98	74
HE 120 A	19.9	114	120	5	8	12	25.3	98	74
HE 120 B	26.7	120	120	6.5	11	12	34	98	74
HE 140 AA	18.1	128	140	4.3	6	12	23	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	12	12	43	116	92
HE 160 AA	23.8	148	160	4.5	7	15	30.4	134	104
HE 160 A	30.4	152	160	6	9	15	38.8	134	104
HE 160 B	42.6	160	160	8.5	13	15	54.3	134	104
HE 160 M	76.2	180	166	14.5	23	15	97.1	134	104
HE 180 AA	28.7	167	180	5	7	15	36.5	152	122
HE 180 A	35.5	171	180	6	9.5	15	45.3	152	122
HE 180 V	51.2	180	180	8.5	14	15	65.3	152	122
HE 180 M	88.9	200	186	14.5	24	15	113	152	122
HE 200 AA	34.6	186	200	5.5	8	18	44.1	170	134
HE 200 A	42.3	190	200	6.5	10	18	53.8	170	134
HE 200 B	61.3	200	200	9	15	18	78.1	170	134
HE 200 M	103	220	206	15	25	18	131	170	134
HE 220 AA	40.4	205	220	6	8.5	18	51.5	188	152
HE 220 A	50.5	210	220	7	11	18	64.3	188	152
HE 220 B	71.5	220	220	9.5	16.5	18	91	188	152
HE 220 M	117	240	226	15.5	26	18	149	188	152
HE 240 AA	47.4	224	240	6.5	9	21	60.4	206	164
HE 240 A	60.3	230	240	7.5	12	21	76.8	206	164
HE 240 B	83.2	240	240	10	17	21	106	206	164
HE 240 M	157	270	248	18	32	21	200	206	164
HE 260 AA	54.1	224	260	6.5	9.5	24	69	225	117
HE 260 A	68.2	250	260	7.5	12.5	24	86.8	225	117
HE 260 B	93	260	260	10	17.5	24	118	225	117
HE 260 M	172	290	268	18	32.5	24	220	225	117

Designation	G kg/m	h mm	b mm	Tw mm	Tf mm	r mm	A cm ²	Hj mm	d mm
HE 280 AA	61.2	264	280	7	10	24	78	244	196
HE 280 A	76.4	270	280	8	13	24	97.3	244	196
HE 280 B	103	280	280	10.5	18	24	131	244	196
HE 280 M	189	310	288	18.5	33	24	240	244	196
HE 300 AA	69.8	283	300	7.5	10.5	27	8.9	262	208
HE 300 A	88.3	290	300	8.5	14	27	113	262	208
HE 300 B	117	300	300	11	19	27	149	262	208
HE 300 C	177	320	305	16	29	27	225	262	208
HE 300 M	238	340	310	21	39	27	303	262	208
HE 320 AA	74.2	301	300	8	11	27	94.6	279	225
HE 320 A	97.6	310	300	9	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	40	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	21.5	27	171	297	243
HEM 340 M	248	377	309	21	40	27	316	297	243
HE 360 AA	83.7	339	300	9	12	27	107	315	261
HE 360 A	112	350	300	10	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	40	27	319	315	261
HE 400 AA	92.4	378	300	9.5	13	27	118	352	298
HE 400 X 107	107	384	297	10	16	27	136	352	298
HE 400 A	125	390	300	11	19	27	159	352	298
HE 400 B	155	400	300	13.5	24	27	198	352	298
HE 400 M	256	432	307	21	40	27	326	352	298
HE 450 AA	100	425	300	10	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	27	178	398	344
HE 450 B	171	450	300	14	26	27	218	398	344
HE 450 M	263	478	307	21	40	27	335	398	344
HE 500 AA	107	472	300	10.5	14	27	137	444	390
HE 500 A	155	490	300	12	23	27	198	444	390
HE 500 B	187	500	300	14.5	28	27	239	444	390
HE 500 M	270	524	306	21	40	27	344	444	390

HEA / HEAA / HEB

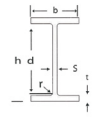
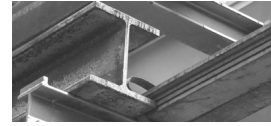
Specification – As Per ASTM A 36 / EN 10025 S275JR



Designation	G kg/m	h mm	b mm	Tw mm	Tf mm	r mm	A cm ²	Hj mm	d mm
HE 550 AA	120	522	300	11.5	15	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	29	27	254	492	438
HR 550 M	278	572	306	21	40	27	354	492	438
HE 600 AA	129	571	300	12	15	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	25	27	226	540	486
HE 600 B	212	600	300	15.5	30	27	270	540	486
HE 600 M	293	668	306	21	40	27	364	540	486
HE 650 AA	138	620	300	12.5	16	27	176	588	534
HE 650 A	190	640	300	11.5	26	27	242	588	534
HE 650 B	225	650	300	16	31	27	286	588	534
HE 650 M	293	668	305	21	40	27	374	588	534
HE 700 AA	150	670	300	13	17	27	191	636	582
HE 700 X 166	166	678	300	12.5	21	27	212	636	582
HE 700 A	204	690	300	14.5	27	27	260	636	582
HE 700 B	241	700	300	17	32	27	306	636	582
HE 700 M	301	716	304	21	40	27	383	636	582
HE 800 AA	172	770	300	14	18	30	218	734	674
HE 800 A	224	790	300	15	28	30	286	734	674
HE 800 B	262	800	300	17.5	33	30	334	734	674
HE 800 M	317	814	303	21	40	30	404	734	674
HE 900 AA	198	870	300	15	20	30	252	830	770
HE 900 A	252	890	300	16.5	30	30	321	830	770
HE 900 B	291	900	300	18.5	35	30	371	830	770
HE 900 M	333	910	302	21	40	30	424	830	770
HE 1000 AA	222	970	300	16	21	30	282	928	868
HE 1000 A	272	990	300	16.5	31	30	347	928	868
HE 1000 B	314	1000	300	19.5	36	30	400	928	868
HE 1000 M	349	1008	302	21	40	30	444	928	868

UNIVERSAL BEAMS

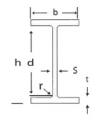
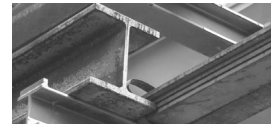
Specification – As Per EN 10025 S275JR / BS 4360 GR 43 A



Designation	Mass per meter	Depth of Section	Width of Section	Thickness		Radius Root	Depth between fillets	Radius for Local Buckling	
				Web	Range			Flange	Web
		h	h	(s)	(t)			b/2l	d/s
mm	kg/m	mm	mm	mm	mm	mm	mm		
127 x 76 x 13	12	127	76	4	7.6	7.6	96.6	5	24.1
152 x 89 x 16	16	152.4	88.7	4.5	7.7	7.6	121.8	5.76	27.1
178 x 102 x 19	19	177	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	206.8	133.9	6.4	9.6	7.6	172.4	6.97	26.9
254 x 102 x 22	22	254	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	8.4	7.6	225.2	6.07	37.5
254 x 102 x 28	28.3	260.4	102.2	6.3	10	7.6	225.2	5.11	35.7
254 x 146 x 31	31.1	251.4	146.1	6	8.6	7.6	219	8.49	36.5
254 x 146 x 37	37	256	146.4	6.3	10.9	7.6	219	6.72	34.8
254 x 146 x 43	43	259.6	147.3	7.2	12.7	7.6	219	5.8	30.4
305 x 127 x 37	37	304.3	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	12.1	8.9	265.2	5.14	33.2
205 x 127 x 48	48.1	311	125.3	9	14	8.9	265.2	4.47	29.5
305 x 165 x 40	40.3	303.4	165	6	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	310.4	166.9	7.9	13.7	8.9	265.2	6.09	33.6
356 x 127 x 33	33.1	349	125.4	6	8.5	10.2	311.6	7.38	51.9
356 x 127 x 39	39.1	353.4	126	6.6	10.7	10.2	311.6	5.89	47.2

UNIVERSAL BEAMS

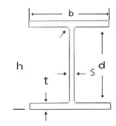
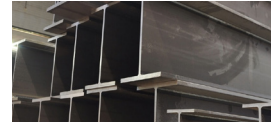
Specification – As Per EN 10025 S275JR / BS 4360 GR 43 A



Designation	Mass per meter	Depth of Section	Width of Section	Thickness		Radius Root	Depth between fillets	Radius for Local Buckling	
				Web	Range			Flange	Web
		h	h	(s)	(t)	r	d	b/2l	d/s
mm	kg/m	mm	mm	mm	mm	mm	mm	b/2l	d/s
356 x 171 x 45	45	351.4	171.1	7	9.7	10.2	311.6	8.82	44.5
356 x 171 x 51	51	355	171.5	7.4	11.5	10.2	311.6	7.46	42.1
356 x 171 x 57	57	358	172.2	8.1	13	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	398	141.8	6.4	8.6	10.2	360.4	8.24	56.3
406 x 140 x 46	46	403.2	142.2	6.8	11.2	10.2	360.4	6.35	53
406 x 178 x 54	54	402.6	177.7	7.7	10.9	10.2	360.4	8.15	46.8
406 x 178 x 60	50.1	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
406 x 178 x 74	74.2	412.8	179.5	9.5	16	10.2	360.4	5.61	37.9
457 X 152 X52	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	152.8	9	15	10.2	407.6	5.13	45.3
457 X 152 X 74	74.2	462	152.4	9.6	17	10.2	407.6	4.54	42.5
457 X 152 X 82	82.1	465.8	152.3	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
457 x 191 x 74	74.3	457	190.4	9	14.5	10.2	407.6	6.57	45.3
457 x 191 x 82	82	460	191.3	9.9	16	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	476.6	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	536.7	210	10.8	17.4	12.7	476.5	6.03	44.1
533 x 210 x 109	109	539.5	210.8	11.6	18.8	12.7	476.5	5.61	41.1
533 x 210 x 122	122	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	607.6	229.2	11.1	17.3	12.7	547.6	6.6	49.3
610 x 229 x 125	125.1	612.2	229	11.9	19.6	12.7	547.6	5.84	46
610 x 229 x 140	139.9	617.2	230.2	13.1	22.1	12.7	547.6	5.21	41.8

UNIVERSAL COLUMNS

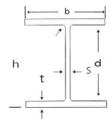
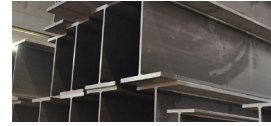
Specification – As Per EN 10025 S275JR / BS 4360 GR 43 A



Designation	Mass per meter	Depth of Section	Width of Section	Thickness		Radius Root	Depth between fillets	Radius for Local Buckling	
				Web	Range			Flange	Web
mm	kg/m	mm	mm	(s)	(t)	r	d	b/2l	d/s
610 X 305 X 149	149.1	612.4	304.8	11.8	19.7	16.5	540	7.74	45.8
610 X 305 X 179	179	620.2	307.1	14.1	23.6	16.5	540	6.51	38.3
610 X 305 X 238	238.1	635.8	311.4	18.4	31.4	16.5	540	4.96	29.3
686 X 254 X 125	125.2	677.9	253	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	15.2	615.1	6.68	49.6
686 X 254 X 152	152.4	687.5	254.5	13.2	21	15.2	615.1	6.06	46.6
686 X 254 X 170	170.2	629.9	255.8	14.5	23.7	15.2	615.1	5.4	42.4
762 X 267 X 134	133.9	750	264.4	12	15.5	16.5	686	8.53	57.2
762 X 267 X 147	146.9	754	265.2	12.8	17.5	16.5	686	7.58	53.6
762 X 267 X 173	173	762.2	266.7	14.3	21.6	16.5	686	6.17	48
762 X 267 X 197	196.8	769.8	268	15.6	25.4	16.5	686	5.28	44
838 X 292 X 176	175.9	834.9	291.7	14	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	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	19.1	824.4	4.81	42.3
914 X 419 X 343	343.3	911.8	418.5	19.4	32	24.1	799.6	6.54	41.2
914 X 419 X 388	388	921	420.5	21.4	36.6	24.1	799.6	5.74	37.4
1016 X 305 X 222	222	970.3	300	16	21.1	30	867.8	7.11	54.5
1016 X 305 X 249	249	980.2	300	16.5	26	30	868	5.77	52.7
1016 X 305 X 272	272	990.1	300	16.5	31	30	868	4.84	52.7
1016 X 305 X 314	314	1000	300	19.1	35.9	30	868.2	4.18	45.6
1016 X 305 X 349	349	1008.1	302	21.1	40	30	868	3.78	41.2
1016 X 305 X 393	393	1016	303	24.4	43.9	30	868.2	3.45	35.7
1016 X 305 X 438	438	1025.9	305.4	26.9	49	30	868	3.12	32.3
1016 X 305 X 487	487	1036.1	308.5	30	54.1	30	867.8	2.85	29

UNIVERSAL COLUMNS

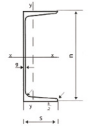
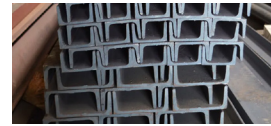
Specification – As Per EN 10025 S275JR / BS 4360 GR 43 A



Designation	Mass per meter	Depth of Section	Width of Section	Thickness		Radius Root	Depth between fillets	Radius for Local Buckling	
				Web	Range			Flange	Web
		h	h	(s)	(t)	r	d	b/2l	d/s
mm	kg/m	mm	mm	mm	mm	mm	mm	b/2l	d/s
152 x 152 x 23	23	152.4	152.2	5.8	6.8	7.6	123.6	11.2	213
152 x 152 x 30	30	157.6	152.9	6.5	9.4	7.6	123.6	8.13	19
152 x 152 x 37	37	161.8	154.4	8	11.5	7.6	123.6	6.71	15.4
203 x 203 x 46	46.1	203.2	203.6	7.2	11	10.2	160.8	9.25	22.3
203 x 203 x 52	52	206.2	204.3	7.9	12.5	10.2	160.8	8.17	20.4
203 x 203 x 60	60	209.6	205.8	9.4	14.2	10.2	160.8	7.25	17.1
203 x 203 x 71	71	215.8	206.4	10	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	5.1	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	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	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	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	352.5	318.4	23	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	355.6	368.6	10.4	17.5	15.2	290.2	10.5	27.9
356 x 368 x 153	152.9	362	370.5	12.3	20.7	15.2	290.2	8.95	23.6
356 x 368 x 177	177	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	15.2	290.2	6.94	17.6
356 x 406 x 235	235.1	381	394.8	18.4	30.2	15.2	290.2	6.54	15.8
356 x 406 x 287	287.1	393	399	22.6	36.5	15.2	290.2	5.47	12.8
356 x 406 x 340	339.9	406.4	403	26.6	42.9	15.2	290.2	4.7	10.9
356 x 406 x 393	393	419	407	30.6	49.2	15.2	290.2	4.14	9.48
356 x 406 x 467	467	436.6	412.2	35.8	58	15.2	290.2	3.55	8.11
356 x 406 x 551	551	455.6	418.5	42.1	67.5	15.2	290.2	3.1	6.89
356 x 406 x 634	633.9	474.6	424	47.6	77	15.2	290.2	2.75	6.1

UPE

Specification – JIS G3101 – mSS400 / ASTM A 36 / EN 10025 S 275 JR

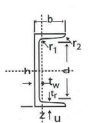


Designation	Dimension						Sectional Area	Mass of 1m	Statistical Values			
	h	s	g	t	r	r ₁			I _x	I _y	W _x	W _y
							cm ²	Kg	cm ²		cm ³	
80E	80	4	4,6	7,4	6,4	2,5,3,0	9,0	7,1	89	12,8	22,4	4,75
100E	100	46	4,5	7,6	7,0	3,0	10,9	8,6	174	20,4	34,8	6,46
120E	120	52	4,8	7,8	7,5	3,0	13,3	10,4	304	31,2	50,6	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	287,0	43,6
400E	400	115	8,0	13,5	15,0	6,0	61,5	48,3	15220	642,0	761,0	73,4

UPN

UPN

Specification – JIS G3101 – SS400 / ASTM A36 / EN 10025 S275JR

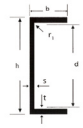


Designation	G	Dimensions						Dimensions for Detailing					Surface	
		h	b	t _w	t _f	r ₁	r ₂	A	d	0	e _{min}	e _{max}	AL	Ag
	kg/m	mm	mm	mm	mm	mm	mm	cm	mm		mm	mm	m ² /m	m ² /t
UPN 80	8.64	80	45	6	8	8	4	11	46				0.312	36.13
UPN 100	10.6	100	50	6	8.5	8.5	4.5	13.5	64	M10	31	34	0.372	35.1
UPN 120	13.4	120	55	7	9	9	4.5	17	82	M10	32	39	0.434	32.52
UPN 140	16	140	60	7	10	10	5	20.4	98	M12	37	41	0.489	30.54
UPN 160	18.8	160	65	7.5	10.5	10.5	5.5	24	115	M16	38	38	0.546	28.98
UPN 180	22	180	70	8	11	11	5.5	28	133	M16	38	43	0.611	27.8
UPN 200	25.3	200	75	8.5	11.5	11.5	6	32.2	151	M16	39	48	0.651	26.15
UPN 220	29.4	220	80	9	12.5	12.5	6.5	37.4	167	M20	44	47	0.718	24.46
UPN 240	33.2	240	85	9.5	13	13	6.5	42.3	184	M20	45	52	0.775	23.34
UPN 260	37.9	260	90	10	14	14	7	48.3	200	M24	51	51	0.834	22
UPN 280	41.8	280	95	10	15	15	7.5	53.3	216	M24	52	56	0.89	21.27
UPN 300	46.2	300	100	10	16	16	8	58.8	232	M24	53	61	0.95	20.58
UPN 320	59.5	320	100	14	17.5	17.5	8.75	75.8	246	M24	59	61	0.982	16.5
UPN 350	60.6	350	100	14	16	16	8	77.3	282	M24	57	61	1.047	17.25
UPN 380	63.1	380	102	13.5	16	16	8	80.4	313	M24	57	63	1.11	17.59
UPN 400	71.8	400	110	14	18	18	9	91.5	324	M27	59	65	1.182	16.46

PARALLEL FLANGE CHANNELS

PARALLEL FLANGE CHANNELS

Specification – JIS G3 101 – SS400 /ASTM A36 /EN 10025 S 275 JR



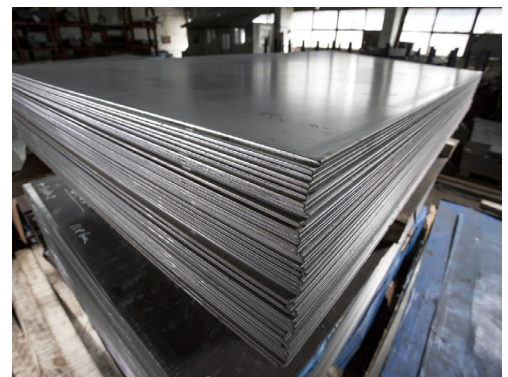
Designation	Mass per meter	Depth of Section	Width of Section	Thickness		Distance of Cy	Radius Root	Depth between fillets
				Web	Range			
		h	h	(s)	(t)		r	d
mm	kg/m	mm	mm	mm	mm	cm	mm	mm
100 x 50	10.2	100	50	5	8.5	1.73	9	65
125 x 65	14.8	125	65	5.5	9.5	2.25	12	82
150 x 75	17.9	150	75	5.5	10	2.58	12	106
150 x 90	23.9	150	90	6.5	10	3.3	12	102
180 x 75	20.3	180	75	6	10.5	2.41	12	135
180 x 90	26.1	180	90	6.5	12.5	3.17	12	131
200 x 75	23.4	200	75	6	12.5	2.48	12	151
200 x 90	29.7	200	90	7	14	3.12	12	148
230 x 75	25.7	230	75	6.5	12.5	2.3	12	181
230 x 90	32.3	230	90	7.5	14	2.92	12	178
260 x 75	27.6	260	75	7	12	2.1	12	212
260 x 90	34.8	260	90	8	14	2.74	12	208
300 x 90	41.4	300	90	9	15.5	2.6	12	245
300 x 100	45.5	300	100	9	16.5	3.05	15	237
380 x 100	54	380	100	9.5	17.5	2.79	15	315
430 x 100	64.4	430	100	11	19	2.62	15	362

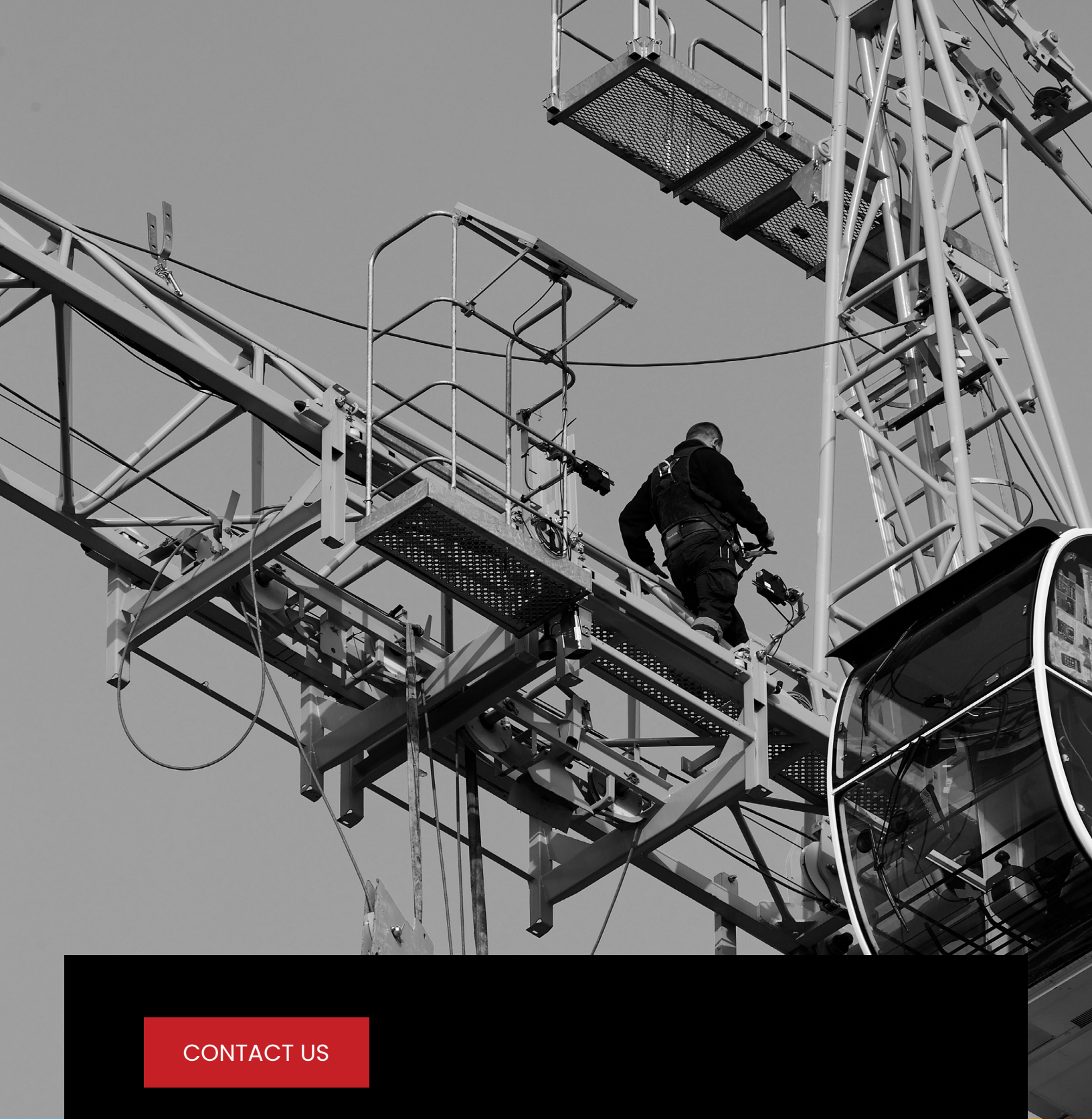
COLD ROLLED SHEETS

COLD ROLLED COILS/SHEETS

Specification –

Size / width	Thickness	Grade
1219MM	0.5MM TO 1.5MM	TS 12.03
4' X 8'	0.5MM TO 1.5MM	TS 12.03





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