

Steel Product Guide





RHS Steel Supplies

RHS Steel Supplies is the supplier of Mild Steel, Galvanised Steel, Aluminium Plate and Stainless Accessories for the construction, engineering and marine industries. We have a large range and fast delivery service in Sydney.

Your one stop trade shop for metal and steel.

We supply and deliver to everyone from big construction sites to small home projects.

We also have a great steel delivery rate in Sydney.

Here at RHS Steel Supplies, we supply Sydney with Steel:

- * Rectangular Hollow Section
- * Square Hollow Section
- * Equal Angle
- * Unequal Angle
- * Square Bar
- * Round Bar
- * Round Pipes
- * C-Section Channel
- * Universal Columns
- * Universal Beams
- * Flat Bar
- * Sheet & Plate

We also stocks a huge variety of aluminium lengths. Our premium quality aluminium is lightweight, strong and resistant to corrosion.

STEEL SERVICES

Oxy Cutting

- Six head multi torch oxy fuel cutting machines.
- Oxy propane cutting process is achieved by blowing away the molten material which is melted by combustion heat of acetylene gas and oxygen.
- With a capacity of cutting mild steel plate up to 300mm thick; quenched and tempered plate up to 160mm thick.
- We have the ability to produce almost any shape from large plates that makes oxy cutting ideal for a wide range of industries.

Plasma Cutting

- Powerful and reliable high definition plasma units
- Fully rotational 360 degree bevel head cutting systems perfect for all your weld preps, chamfers, general engineering and fabrication purposes cutting up to 50mm thick material.
- Full CNC controlled machine with greater tolerance allowing highly accurate shapes to be produced & better cut quality.

Saw Cutting

- RHS Steel can save you time and money by delivering your pipe, merchant sections or RHS products cut to size.
- By feeding in bulk material we can ensure that your products are cut accurately and meet your specifications with either perfectly square ends or 45 degree mitre ends.

Drilling and Countersinking

- Drilling wear plates requires replaceable carbide tipped inserts using robust drilling equipment to avoid tip chipping caused by excess movement.
- However the drilling of EHSP wear plates requires the use of tungsten tipped drill bits.
- All other grades can be drilled with high speed drills provided care is taken.

Stud Welding

- Stud welding to wear plate enables rapid fitting of wear plate liners to chutes, feed slots and hoppers.

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Grade 250 Plates

Plain Plate - AS/NZS 3678-250

Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width - approximately		
		1800	2400	3000
3	23.55	42.39	56.52	70.65
4	31.40	56.52	75.36	94.20
5	39.25	70.65	94.20	117.75
6	47.10	84.78	113.04	141.30
8	62.80	113.04	150.72	188.40
10	78.50	141.30	188.40	235.50
12	94.20	169.56	226.08	282.60
16	125.60	226.08	301.44	376.80
20	157.00	282.60	376.80	471.00
25	196.25	353.25	471.00	588.75
28	219.80	395.64	527.52	659.40
32	251.20	452.16	602.88	753.60
36	282.60	508.68	678.24	847.80
40	314.00	565.20	753.60	942.00
45	353.25	635.85	847.80	1059.75
50	392.50	706.50	942.00	1177.50
55	431.75	771.15	1036.20	1295.25
60	471.00	847.80	1130.40	1413.00
70	549.50	989.10	1318.80	1648.50
80	628.00	1130.40	1507.20	1884.00
90	706.50	1271.70	1695.60	2119.50
100	785.00	1413.00	1884.00	2355.00
110	863.50	1554.30	2072.40	2590.50
120	942.00	1695.60	2260.80	2826.00
140	1099.00	1978.20	2637.60	3297.00
150	1177.50	2119.50	2826.00	3532.50
160	1256.00	2260.80	3014.40	3768.00
180	1413.00	2543.40	3391.20	4239.00
200	1570.00	2826.00	3768.00	4710.00
225	1766.25	3179.25	4239.00	5298.75
250	1962.50	3532.50	4710.00	5887.50
300	2355.00	4239.00	5652.00	7065.00

Grade 350 Plates

Plain Plate - AS/NZS 3678-350				
Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width - approximately		
		1800	2400	3000
3	23.55	42.39	56.52	70.65
4	31.40	56.52	75.36	94.20
5	39.25	70.65	94.20	117.75
6	47.10	84.78	113.04	141.30
8	62.80	113.04	150.72	188.40
10	78.50	141.30	188.40	235.50
12	94.20	169.56	226.40	282.60
16	125.60	226.08	301.44	376.80
20	157.00	282.60	371.00	471.00
25	196.25	353.25	471.00	588.75
28	219.80	395.64	527.52	659.40
32	251.20	452.16	602.88	753.60
36	282.60	508.68	678.24	847.80
40	314.00	545.20	753.60	942.00
45	353.25	635.85	847.80	1059.75
50	392.50	706.50	942.00	1177.50
55	431.75	771.15	1036.20	1295.25
60	471.00	847.80	1130.40	1413.00
70	549.50	989.10	1318.80	1648.50
80	628.00	1130.40	1507.20	1884.00
90	706.50	1271.70	1695.60	2119.50
100	785.00	1413.00	1884.00	2355.00
110	863.50	1554.30	2072.40	2590.50
120	942.00	1695.60	2260.80	2826.00
140	1099.00	1978.20	2637.60	3297.00
150	1177.50	2119.50	2826.00	3532.50
160	1256.00	2260.80	3014.40	3768.00
180	1413.00	2543.40	3391.20	4239.00
200	1570.00	2826.00	3768.00	4710.00
225	1766.25	3179.25	4239.00	5298.75
250	1962.50	3532.50	4710.00	5887.50
270	2119.50	3815.10	5086.80	6358.50
300	2355.00	4239.00	5652.00	7065.00

Quenched & Tempered Grade 400

<u>Quenched & Tempered Plates</u>			
Plate Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width - approximately	
		2400	3000
4	31.40	75.36	94.20
5	39.25	94.20	117.75
6	47.10	113.04	141.30
8	62.80	150.72	188.40
10	78.50	188.40	235.50
12	94.20	226.08	282.60
16	125.60	301.44	376.80
20	157.00	376.80	471.00
25	196.25	471.00	588.75
32	251.20	602.88	753.60
40	314.00	753.60	942.00
50	392.50	942.00	1177.50
60	471.00	1130.40	1413.00
70	549.50	1318.80	1648.50
80	628.00	1507.20	1884.00
100	785.00	1884.00	2355.00

Quenched & Tempered Grade 450

<u>Quenched & Tempered Plates</u>			
Plate Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width - approximately	
		2400	3000
4	31.40	75.36	94.20
5	39.25	94.20	117.75
6	47.10	113.04	141.30
8	62.80	150.72	188.40
10	78.50	188.40	235.50
12	94.20	226.08	282.60
16	125.60	301.44	376.80
20	157.00	376.80	471.00
25	196.25	471.00	588.75
32	251.20	602.88	753.60
40	314.00	753.60	942.00
50	392.50	942.00	1177.50
60	471.00	1130.40	1413.00
70	549.50	1318.80	1648.50
80	628.00	1507.20	1884.00
100	785.00	1884.00	2355.00

Quenched & Tempered Grade 500

Quenched & Tempered Plates

Plate Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width - approximately	
		2400	3000
4	31.40	75.36	94.20
5	39.25	94.20	117.75
6	47.10	113.04	141.30
8	62.80	150.72	188.40
10	78.50	188.40	235.50
12	94.20	226.08	282.60
16	125.60	301.44	376.80
20	157.00	376.80	471.00
25	196.25	471.00	588.75
32	251.20	602.88	753.60
40	314.00	753.60	942.00
50	392.50	942.00	1177.50
60	471.00	1130.40	1413.00
70	549.50	1318.80	1648.50
80	628.00	1507.20	1884.00
100	785.00	1884.00	2355.00

Quenched & Tempered Grade 80

Quenched & Tempered Plates

Plate Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width - approximately	
		2400	3000
5	39.25	94.20	117.75
6	47.10	113.04	141.30
8	62.80	150.72	188.40
10	78.50	188.40	235.50
12	94.20	226.08	282.60
16	125.60	301.44	376.80
20	157.00	376.80	471.00
25	196.00	471.00	588.75
32	251.20	602.88	753.60
40	314.00	753.60	942.00
50	392.50	942.00	1177.50
60	471.00	1130.40	1413.00
70	549.50	1318.80	1648.50
80	628.00	1507.20	1884.00
100	785.00	1884.00	2355.00
110	863.50	2072.40	2590.00
120	942.00	2260.40	2826.00
140	1099.00	2637.60	3297.00
150	1177.00	2826.00	3532.50
160	1256.00	3014.4	3768.00

Pressure Vessel Plate

Pressure Vessel Plate - AS 1548-7-430R			
Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width Approximately	
		2400	3000
5	39.25	94.20	117.75

Boiler Plates

Boiler Plate - SA/AS 1548-7-460R			
Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width Approximately	
		2400	3000
6	47.10	113.04	141.30
8	62.80	150.72	188.40
10	78.50	188.40	235.50
12	94.20	226.08	282.60
16	125.60	301.44	376.80
20	157.00	376.80	471.00
25	196.25	471.00	588.75
32	251.20	602.88	753.60
40	314.00	753.60	942.00
50	392.50	942.00	1177.50
60	471.00	1130.40	1413.00
70	549.50	1318.80	1648.50
80	628.00	1507.20	1884.00
90	706.50	1695.60	2119.50
100	785.00	1884.00	2355.00

Coil Plates

Coil Plate - AS/NZ 1594 - HA250			
Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width - approximately	
		1200mm	1500mm
3	23.55	28.26	35.33
4	31.40	37.68	47.10
5	39.25	47.10	58.88
6	47.10	56.52	70.65
8	62.80	75.36	94.20
10	78.50	94.20	117.75
12	94.20	113.04	141.30

Coil Floor Plates

Coil Floor Plates - AS/NZ 1594 - HA250				
Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width - approximately		
		1200	1500	1800
2.1	18.48	22.18	27.72	33.26
3.0	25.55	30.66	38.33	45.99
5.0	41.25	49.50	61.88	74.25
6.0	49.10	58.92	73.65	88.38
8.0	64.80	77.76	97.20	116.64

Floor Plates

Floor Plates - AS/NZ 3678 - 250			
Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width - approximately	
		1500	1800
8.0	64.80	97.20	116.64
10.0	80.50	120.75	144.90
12.0	96.20	144.30	173.16

International Standards

<u>Boiler Plate</u>							
Australian AS 3678	European * EN10025	British * BS 4360	German * DIN17100	Japanese JIS	American ASTM	International ISO 630	Tensile Strength MPa
7-430							430
7-460	2-P295GH				A662-B	P290	460
7-490		224-490	19Mn6	G3115-SPV3115	A515-70 A516-70 A662-C	P315	490
5-490	3-P355GH			G3126-SLA360	A537-C11 A737-B	P315	490

This table does not represent a direct match between standards. Please consult the relevant standard for specific details.

<u>Structural Plate</u>							
Australian AS 3678	European * EN10025	British * BS 4360	German * DIN17100	Japanese JIS	American ASTM	International ISO 630	Tensile Strength MPa
200							300
250 250L15	S275JR S275JO S275J2G3 S275J2G4			St44-2 St44-3	A283D A284C, D A529 A572-290		410
300 300L15	Fe430B, C,D1,D2	43A, B,C,D			A633A	Fe430A, B,C,D	430
350 350L15					A573-450 A572-345		450
400 400L15					A572-485		480
450 450L15				G3106-SM520 B,C	A572-415	Fe510, B,C,D	520

This table does not represent a direct match between standards. Please consult the relevant standard for specific details.

Extra Light Pipes

Extra Light Pipes - AS 1163-C350								
Nominal Size (NB)	Outside Diameter mm	Wall Thickness mm	Quantity per sling 6.5m	Common Description	Plain End Pipes			
					Black		Galvanized	
					kg/m	Sling Mass	kg/m	Sling Mass
20	26.9	2.0	127	Extra Light	1.23	1.015	1.28	1.057
25	33.7	2.0	91	Extra Light	1.56	0.925	1.62	0.958
32	42.2	2.0	61	Extra Light	1.99	0.786	2.07	0.821
40	48.3	2.3	61	Extra Light	2.61	1.034	2.70	1.072
50	60.3	2.3	37	Extra Light	3.29	0.792	3.40	0.819
65	76.1	2.3	37	Extra Light	4.19	1.008	4.33	1.042
80	88.9	2.6	19	Extra Light	5.53	0.683	5.70	0.704
90	101.6	2.6	19	Extra Light	6.35	0.785	6.53	0.807
100	114.3	3.2	19	Extra Light	8.77	1.084	8.98	1.109
125	139.7	3.0	13	Extra Light	10.1	0.855	10.4	0.879
150	165.1	3.0	10	Extra Light	12.0	0.779	12.3	0.799

Light Pipes

Light Pipes - AS 1163-C250								
Nominal Size (NB)	Outside Diameter mm	Wall Thickness mm	Quantity per sling 6.5m	Common Description	Plain End Pipes			
					Black		Galvanized	
					kg/m	Sling Mass	kg/m	Sling Mass
20	26.9	2.3	127	Light	1.40	1.152	1.44	1.190
25	33.7	2.6	91	Light	1.99	1.178	2.05	1.213
32	42.2	2.6	61	Light	2.55	1.007	2.63	1.044
40	48.3	2.9	61	Light	3.25	1.287	3.33	1.321
50	60.3	2.9	37	Light	4.11	0.989	4.21	1.013
65	76.1	3.2	37	Light	5.75	1.383	5.89	1.417
80	88.9	3.2	19	Light	6.76	0.835	6.93	0.855
90	101.6	3.2	19	Light	7.77	0.960	7.95	0.982
100	114.3	3.6	19	Light	9.83	1.215	10.0	1.235
125	139.7	3.5	13	Light	11.8	0.993	12.0	1.014
150	165.1	3.5	10	Light	13.9	0.904	14.3	0.930

Some sizes are subject to a mill minimum order quantities.

Medium Pipes

Medium Pipes - AS 1163-C250								
Nominal Size (NB)	Outside Diameter mm	Wall Thickness mm	Quantity per sling 6.5m	Common Description	Plain End Pipes			
					Black		Galvanized	
					kg/m	Sling Mass	kg/m	Sling Mass
10	17.2	2.3	217	Medium	0.839	1.183	0.885	1.248
15	21.3	2.6	217	Medium	1.21	1.690	1.24	1.735
20	26.9	2.6	127	Medium	1.56	1.290	1.60	1.321
25	33.7	3.2	91	Medium	2.41	1.426	2.46	1.456
32	42.4	3.2	61	Medium	3.10	1.230	3.17	1.257
40	48.3	3.2	61	Medium	3.57	1.416	3.64	1.444
50	60.3	3.6	37	Medium	5.03	1.210	5.14	1.237
65	76.1	3.6	37	Medium	6.43	1.547	6.56	1.578
80	88.9	4.0	19	Medium	8.37	1.034	8.53	1.054
90	101.6	4.0	19	Medium	9.63	1.190	9.81	1.212
100	114.3	4.5	19	Medium	12.2	1.507	12.4	1.531
125	139.7	5.0	13	Medium	16.6	1.403	16.9	1.429
150	165.1	5.0	10	Medium	19.7	1.281	20.0	1.301

Heavy Pipes

Heavy Pipes - AS 1163-C250								
Nominal Size (NB)	Outside Diameter mm	Wall Thickness mm	Quantity per sling 6.5m	Common Description	Plain End Pipes			
					Black		Galvanized	
					kg/m	Sling Mass	kg/m	Sling Mass
15	21.3	3.2	217	Heavy	1.43	2.010	1.46	2.060
20	26.9	3.2	127	Heavy	1.87	1.545	1.93	1.593
25	33.7	4.0	91	Heavy	2.93	1.733	2.99	1.770
32	42.2	4.0	61	Heavy	3.79	1.501	3.86	1.530
40	48.3	4.0	61	Heavy	4.37	1.733	4.45	1.765
50	60.3	4.5	37	Heavy	6.19	1.490	6.30	1.515
65	76.1	4.5	37	Heavy	7.95	1.911	8.08	1.943
80	88.9	5.0	19	Heavy	10.3	1.280	10.5	1.300
90	101.6	5.0	19	Heavy	11.9	1.471	12.1	1.494
100	114.3	5.4	19	Heavy	14.5	1.791	14.7	1.825
125	139.7	5.4	13	Heavy	17.9	1.511	18.1	1.529
150	165.1	5.4	10	Heavy	21.3	1.382	21.6	1.404

Extra Heavy Pipes

Extra Heavy Pipes - AS 1163-C250						
Nominal Size (NB)	Outside Diameter mm	Wall Thickness mm	Quantity per sling 6.5m	Common Description	Plain End Pipes	
					Black	
					kg/m	Sling Mass
40	48.3	5.4	61	X-Heavy	5.71	2.264
50	60.3	5.4	37	X-Heavy	7.31	1.759
65	76.1	5.9	37	X-Heavy	10.2	2.454
80	88.9	5.9	19	X-Heavy	12.1	1.495

Galvanised Wire Mesh Sheets

AS/NZS 4671		
Wire Size	Sheet Size	Weight (kg)
25 x 25 x 2.5	2400 x 3000	23
25 x 25 x 3.15	2400 x 3000	36
50 x 50 x 3.15	2400 x 3000	18
50 x 50 x 4.0	2400 x 3000	29
75 x 50 x 4.0	2400 x 3000	25
100 x 100 x 4.0	2400 x 3000	15
100 x 100 x 5.6	2400 x 3000	29



Linepipe Sizes + Weights

Pipe Size														
N.B	O.D	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS
15	21.3				2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62				4.78 1.95	7.47 2.55
20	26.7				2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20				5.56 2.90	7.82 3.64
25	33.4				3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24				6.35 4.24	9.09 5.45
32	42.2				3.56 3.39	3.56 3.39		4.85 4.47	4.85 4.47				6.35 5.61	9.70 7.77
40	48.3				3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41				7.14 7.25	10.15 9.56
50	60.3				3.91 5.44	3.91 5.44		5.54 7.48	5.54 7.48				8.74 11.11	11.07 13.44
65	73.0				5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41				9.53 14.92	14.02 20.39
80	88.9				5.49 11.29	5.49 11.29		7.62 15.27	7.62 15.27				11.13 21.35	15.24 27.67
90	101.6				5.74 13.57	5.74 13.57		8.08 18.63	8.08 18.63					
100	114.3				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
125	141.3				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
150	168.3				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 79.22
200	219.1		6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	10.31 53.08	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
250	273.1		6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.55	12.70 64.64	15.09 96.01	18.26 114.75	21.44 133.06	25.40 115.15	28.57 172.33	25.40 155.15
300	323.9		6.35 49.73	8.38 65.2	9.53 73.88	10.31 79.73	14.27 108.96	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
350	355.6	6.35 54.59	7.92 67.90	9.53 81.33	9.53 81.33	11.13 94.55	15.09 126.70	12.70 107.10	19.05 158.10	23.83 194.96	27.79 224.65	31.75 256.56	35.71 281.70	
400	406.4	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.30	16.66 160.12	12.70 123.30	21.44 203.53	26.19 245.56	30.96 286.64	36.53 333.19	40.49 365.35	
450	457.2	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	14.27 155.80	19.05 205.74	12.70 139.15	23.88 254.55	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37	
500	508.0	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.62 247.83	12.70 155.12	26.19 311.17	32.45 381.53	38.10 441.49	44.45 508.11	50.01 564.81	
550	559	6.35 86.5	9.53 129.1	12.7 171.1	9.53 129.1		22.23 294.3	12.7 171.1	28.58 373.8	34.93 451.4	41.28 527.0	47.63 600.6	53.99 672.3	
600	609.6	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	24.61 355.26	12.70 187.06	30.96 442.08	38.89 547.71	46.02 640.03	52.37 720.15	59.54 808.22	
650	660	7.92 127.36	12.70 202.7		9.53 152.87			12.70 202.72						
700	711	7.92 137.32	12.70 218.7	15.88 271.21	9.53 164.85			12.70 218.69						
750	762	7.92 147.28	12.70 237.70	15.88 292.18	9.53 176.84			12.70 234.67						
Wall thickness - mm in unshaded area							Weight - kg/m listed in shaded area							

All dimensions in millimetres | All weights in kgs

Large Structural Pipes

Structural CHS - AS1163 C350				
Outside Diameter mm	Thickness mm	Mass kg/m	Lengths per Bundle	Bundle Weight MT 12mtr length
88.9	5.5	11.3	19	2.579
	7.6	15.2	19	3.474
114.3	4.8	13.0	13	2.022
	6.0	16.0	13	2.500
	8.6	22.4	13	3.497
141.3	4.8	16.2	13	2.521
	6.6	21.2	13	3.420
	9.5	30.9	13	4.817
168.3	4.8	19.4	7	1.626
	6.4	25.6	7	2.146
	7.1	28.2	7	2.371
	11.0	42.7	7	3.584
219.1	4.8	25.4	1	0.304
	6.4	33.6	1	0.403
	8.2	42.6	1	0.512
	12.7	64.6	1	0.776
273.1	4.8	31.8	1	0.381
	6.4	42.1	1	0.505
	9.3	60.5	1	0.726
	12.7	81.6	1	0.979
323.9	4.8	37.8	1	0.453
	6.4	50.1	1	0.601
	9.5	73.7	1	0.884
	12.7	97.5	1	1.170
355.6	6.4	55.1	1	0.661
	9.5	81.1	1	0.973
	12.7	107.4	1	1.289
406.4	6.4	63.1	1	0.758
	9.5	93.0	1	1.116
	12.7	123.3	1	1.480
457.0	6.4	71.1	1	0.853
	9.5	104.8	1	1.258
	12.7	139.1	1	1.670
508.0	6.4	79.2	1	0.950
	9.5	116.8	1	1.401
	12.7	155.1	1	1.860
610.0	6.4	95.3	1	1.143
	9.5	140.7	1	1.688
	12.7	187.1	1	2.245

Precision ERW Products

Round Tubes AS 1450									
Rounds O.D x wt	Mass kg/m	Sling Qty	FINISH		Rounds O.D x wt	Mass kg/m	Sling Qty	FINISH	
			SEMB	GALV				SEMB	GALV
12.7 x 0.9	0.26	270	n/a	●	35.0 x 1.6	1.32	61	●	n/a
12.7 x 1.2	0.34	270	●	n/a	38.0 x 1.2	1.09	61	n/a	●
12.7 x 1.6	0.44	270	●	n/a	38.0 x 2.0	1.78	37	●	n/a
16.0 x 1.2	0.44	217	●	●	41.3 x 1.2	1.19	37	●	●
16.0 x 1.6	0.57	217	●	●	41.3 x 1.6	1.57	37	●	●
16.0 x 2.0	0.69	217	●	n/a	44.5 x 1.2	1.28	68	●	●
19.0 x 0.9	0.40	169	n/a	●	44.5 x 1.6	1.69	68	●	●
19.0 x 1.2	0.53	169	●	●	47.6 x 1.2	1.37	37	●	n/a
19.0 x 1.4	0.61	169	●	n/a	47.6 x 1.6	1.82	19	●	n/a
19.0 x 1.6	0.69	169	●	●	47.6 x 2.0	2.25	19	●	n/a
19.0 x 2.0	0.84	169	●	n/a	51.0 x 1.2	1.47	53	●	●
19.0 x 2.5	1.02	169	n/a	●	51.0 x 1.4	1.71	53	●	n/a
22.2 x 0.9	0.47	127	●	●	51.0 x 1.6	1.95	19	●	●
22.2 x 1.2	0.62	127	●	n/a	51.0 x 2.0	2.42	19	●	●
22.2 x 1.4	0.72	127	●	n/a	51.0 x 2.5	2.99	19	n/a	●
22.2 x 1.6	0.81	127	●	n/a	54.0 x 1.2	1.56	19	n/a	●
25.4 x 0.9	0.54	91	n/a	●	54.0 x 1.6	2.07	19	●	n/a
25.4 x 1.2	0.72	91	●	n/a	57.0 x 1.2	1.65	19	●	●
25.4 x 1.4	0.83	91	●	n/a	57.0 x 1.6	2.19	19	●	●
25.4 x 1.6	0.94	91	●	●	57.0 x 2.0	2.71	19	●	n/a
25.4 x 2.0	1.15	91	●	●	60.3 x 1.6	2.32	19	n/a	●
28.6 x 1.2	0.81	61	●	●	63.5 x 1.6	2.44	19	●	n/a
28.6 x 1.6	1.07	61	●	●	63.5 x 2.0	3.03	19	●	n/a
31.8 x 1.2	0.91	61	●	n/a	70.0 x 1.6	2.70	19	●	n/a
31.8 x 1.6	1.19	61	●	●	76.2 x 1.6	2.94	19	●	n/a
31.8 x 2.0	1.47	61	●	n/a	90.0 x 1.6	3.49	7	●	n/a
35.0 x 1.2	1.00	61	●	●					
Oval Tubes AS 1450									
Oval Tube mm x mm x mm	Mass kg/g	Sling Qty	FINISH						
			SEMB	GALV					
30x15x2.0	1.15	128	●	n/a					
31.8x17.5x1.6	0.94	96	●	n/a					
31.8x17.5x2.0	1.20	120	●	n/a					
35x15x2.0	1.31	128	●	n/a					
61.8x29.6x1.6	1.86	48	n/a	●					

Precision ERW Products

Rectangles AS 1450					Squares AS 1450				
Rectangles mm x mm x mm	Mass kg/m	Sling Qty	FINISH		Squares mm x mm x mm	Mass kg/m	Sling Qty	FINISH	
			SEMB	GALV				SEMB	GALV
12x9x1.2	0.40	560	●	n/a	12.7x12.7x1.2	0.40	400	n/a	●
25.4x12.7x0.9	0.50	200	n/a	●	12.7x12.7x1.6	0.51	400	●	n/a
25.4x12.7x1.0	0.55	200	n/a	●	16x16x0.9	0.40	256	n/a	●
25.4x12.7x1.2	0.64	200	●	n/a	16x16x1.0	0.45	256	n/a	●
25.4x12.7x1.6	0.83	200	n/a	●	16x16x1.2	0.53	256	n/a	●
30x15x0.9	0.59	128	n/a	●	16x16x1.6	0.67	256	●	n/a
31.8x12.7x16	0.99	160	●	n/a	19x19x0.9	0.50	169	n/a	●
35x19x1.0	0.80	96	n/a	●	19x19x1.2	0.64	169	●	n/a
35x19x1.2	0.94	96	●	n/a	19x19x1.4	0.73	169	●	n/a
35x19x1.6	1.22	96	●	●	19x19x1.6	0.82	169	●	●
38x25.4x1.2	1.12	70	n/a	●	19x19x2.0	0.99	169	●	n/a
50x10x0.9	0.81	85	n/a	●	20x20x1.2	0.68	144	n/a	●
50x10x1.2	1.06	85	●	n/a	22.2x22.2x0.9	0.59	121	●	●
50x10x1.6	1.38	85	●	n/a	22.2x22.2x1.2	0.76	121	●	●
50x20x1.6	1.63	60	●	n/a	22.2x22.2x1.4	0.88	121	●	n/a
50x25x0.9	1.02	50	n/a	●	22.2x22.2x1.6	0.98	121	●	●
50x25x1.2	1.34	50	n/a	●	25.4x25.4x1.2	0.88	100	●	●
50x40x1.6	2.13	30	●	n/a	25.4x25.4x1.4	1.02	100	●	n/a
51x31.8x1.6	1.95	40	●	n/a	25.4x25.4x1.6	1.14	100	n/a	●
51x31.8x2.0	2.39	40	●	n/a	31.8x31.8x1.2	1.12	64	●	●
57x35x1.6	2.18	28	n/a	●	31.8x31.8x1.6	1.47	64	n/a	●
60x40x1.6	2.38	24	●	n/a	35x35x1.2	1.24	49	●	●
63.5x38x1.6	2.42	28	n/a	●	38x38x1.6	1.78	49	●	●
67x29x2.0	2.81	36	●	n/a	40x40x1.2	1.43	32	n/a	●
70x34x2.3	3.48	28	●	n/a	41x41x2.0	2.37	36	n/a	●
70x50x1.2	2.19	20	n/a	●	45x45x1.6	2.13	36	n/a	●
76x38x1.2	2.07	18	n/a	●	50x50x1.2	1.81	25	n/a	●
76x38x1.6	2.73	18	n/a	●	60x60x1.6	2.88	12	●	●
76x38x2.0	3.37	18	n/a	●					
80x40x1.6	2.88	18	n/a	●					

Square Section

RHS AS/NZ 1163-C350						
Dimension d x b mm x mm	Thickness mm	End Colour Codes	Mass kg/m	Lengths/ Bundle qty x m	Bundle Packed W x H	Bundle Weight t
13 x 13	1.8	Brown	0.568	100 x 6.5	10 x 10	0.370
15 x 15	1.8	Brown	0.681	100 x 6.5	10 x 10	0.443
20 x 20	1.6	Purple	0.873	100 x 6.5	10 x 10	0.567
	2.0	Yellow	1.05	100 x 6.5	10 x 10	0.682
25 x 25	1.6	Purple	1.12	100 x 6.5	10 x 10	0.731
	2.0	Yellow	1.36	100 x 6.5	10 x 10	0.886
	2.5	Pink	1.64	100 x 6.5	10 x 10	1.070
	3.0	Blue	1.89	100 x 6.5	10 x 10	1.230
30 x 30	1.6	Purple	1.38	100 x 8	10 x 10	1.100
	2.0	Yellow	1.68	100 x 8	10 x 10	1.340
	2.5	Pink	2.03	100 x 8	10 x 10	1.630
	3.0	Blue	2.36	64 x 8	8 x 8	1.210
35 x 35	1.6	Purple	1.63	100 x 8	10 x 10	1.300
	2.0	Yellow	1.99	100 x 8	10 x 10	1.590
	2.5	Pink	2.42	64 x 8	8 x 8	1.240
	3.0	Blue	2.83	64 x 8	8 x 8	1.450
40 x 40	1.6	Purple	1.88	81 x 8	9 x 9	1.220
	2.0	Yellow	2.31	81 x 8	9 x 9	1.490
	2.5	Pink	2.82	64 x 8	8 x 8	1.440
	3.0	Blue	3.30	64 x 8	8 x 8	1.690
	4.0	Green	4.09	49 x 8	7 x 7	1.600
50 x 50	1.6	Purple	2.38	64 x 8	8 x 8	1.220
	2.0	Yellow	2.93	64 x 8	8 x 8	1.500
	2.5	Pink	3.60	49 x 8	7 x 7	1.410
	3.0	Blue	4.25	49 x 8	7 x 7	1.660
	4.0	Green	5.35	36 x 8	6 x 6	1.540
	5.0	Orange	6.39	30 x 8	6 x 5	1.530
65 x 65	6.0	White	7.32	25 x 8	5 x 5	1.465
	1.6	Purple	3.13	49 x 8	7 x 7	1.230
	2.0	Yellow	3.88	42 x 8	6 x 7	1.300
	2.5	Pink	4.78	42 x 8	6 x 7	1.610
	3.0	Blue	5.66	36 x 8	6 x 6	1.630
	4.0	Green	7.23	30 x 8	6 x 5	1.741
	5.0	Orange	8.75	25 x 8	5 x 5	1.750
75 x 75	6.0	White	10.1	20 x 8	5 x 4	1.620
	2.0	Yellow	4.50	36 x 8	6 x 6	1.300
	2.5	Pink	5.56	30 x 8	6 x 5	1.340
	3.0	Blue	6.60	30 x 8	6 x 5	1.580
	3.5	Grey	7.53	25 x 8	5 x 5	1.510
	4.0	Green	8.49	25 x 8	5 x 5	1.700
	5.0	Orange	10.3	20 x 8	5 x 4	1.650
89 x 89	6.0	White	12.0	16 x 8	4 x 4	1.540
	2.0	Yellow	5.38	20 x 8	5 x 4	0.861
	3.5	Grey	9.07	20 x 8	5 x 4	1.450
	5.0	Orange	12.5	16 x 8	4 x 4	1.600
90 x 90	6.0	White	14.7	12 x 8	4 x 3	1.410
	2.0	Yellow	5.45	20 x 8	5 x 4	0.871
	2.5	Pink	6.74	20 x 8	5 x 4	1.080

Square Section

RHS AS/NZ 1163-C350									
Dimension d x b mm x mm	Thickness t mm	End Colour Codes	Mass kg/m	Lengths/ Bundle 8.0m qty x m	Lengths/ Bundle 12m qty x m	Bundle Pack 8m W x H	Bundle Pack 12m W x H	Bundle Weight t - 8.0m	Bundle Weight T - 12.0m
100 x 100	2.0	Yellow	6.07	20 x 8	20 x 12	5 x 4	5 x 4	0.972	1.457
	2.5	Pink	7.53	20 x 8	20 x 12	5 x 4	5 x 4	1.200	1.807
	3.0	Blue	8.96	20 x 8	16 x 12	5 x 4	4 x 4	1.434	1.720
	4.0	Green	11.6	16 x 8	12 x 12	4 x 4	4 x 3	1.490	1.670
	5.0	Orange	14.2	12 x 8	9 x 12	4 x 3	3 x 3	1.370	1.534
	6.0	White	16.7	12 x 8	9 x 12	4 x 3	3 x 3	1.610	1.804
	8.0	Red	21.4	9 x 8	6 x 12	3 x 3	3 x 3	1.540	1.540
	9.0	Purple	23.5	9 x 8	6 x 12	3 x 3	3 x 2	1.690	1.690
	10.0	Yellow	25.6		6 x 12		3 x 2		1.843
125 x 125	4.0	Green	14.8	12 x 8	9 x 12	4 x 3	3 x 3	1.420	1.598
	5.0	Orange	18.2	12 x 8	9 x 12	4 x 3	3 x 3	1.740	1.966
	6.0	White	21.4	9 x 8	6 x 12	3 x 3	3 x 2	1.541	1.541
	8.0	Red	27.7	6 x 8	4 x 12	3 x 2	2 x 2	1.330	1.330
	9.0	Purple	30.6	4 x 8	4 x 12	4 x 2	2 x 2	1.960	1.469
	10.0	Yellow	33.4		4 x 12	2 x 2	2 x 2		1.603
150 x 150	5.0	Orange	22.1	9 x 8	6 x 12	3 x 3	3 x 2	1.590	1.590
	6.0	White	26.2	6 x 8	6 x 12	3 x 2	3 x 2	1.260	1.886
	8.0	Red	33.9	6 x 8	4 x 12	3 x 2	2 x 2	1.630	1.630
	9.0	Purple	37.7	6 x 8	4 x 12	3 x 2	2 x 2	1.810	1.810
	10.0	Yellow	41.3		2 x 12		2 x 1		0.991
200 x 200	5.0	Orange	29.9	6 x 8	4 x 12	3 x 2	2 x 2	1.435	1.435
	6.0	White	35.6	4 x 8	4 x 12	2 x 2	2 x 2	1.140	1.708
	8.0	Red	46.5	4 x 8	2 x 12	2 x 2	1 x 2	1.488	1.116
	9.0	Purple	51.8	4 x 8	2 x 12	2 x 2	1 x 2	1.658	1.243
	10.0	Yellow	57.0		2 x 12		2 x 2		1.368
	12.5	Blue	69.4		2 x 12		2 x 1		1.666
	16.0	Grey	85.5		1 x 12		1 x 1		1.026
250 x 250	6.0	White	45.0	4 x 8	2 x 12	2 x 2	2 x 1	1.440	1.080
	8.0	Red	59.1	4 x 8	2 x 12	2 x 2	2 x 1	1.890	1.418
	9.0	Purple	65.9	2 x 8	2 x 12	1 x 2	2 x 1	1.054	1.582
	10.0	Yellow	72.7		2 x 12		2 x 1		1.745
	12.5	Blue	89.0		1 x 12		1 x 1		1.068
	16.0	Grey	111.0		1 x 12		1 x 1		1.332
300 x 300	8.0	Red	71.6		1 x 12		1 x 1		0.860
	10.0	Yellow	88.4		1 x 12		1 x 1		1.061
	12.5	Blue	109.0		1 x 12		1 x 1		1.308
	16.0	Grey	136.0		1 x 12		1 x 1		1.632
350 x 350	8.0	Red	84.2		1 x 12		1 x 1		1.010
	10.0	Yellow	104.0		1 x 12		1 x 1		1.248
	12.5	Blue	128.0		1 x 12		1 x 1		1.536
	16.0	Grey	161.0		1 x 12		1 x 1		1.932
400 x 400	10.0	Yellow	120.0		1 x 12		1 x 1		1.440
	12.5	Blue	148.0		1 x 12		1 x 1		1.776
	16.0	Grey	186.0		1 x 12		1 x 1		2.232

Rectangular Section

RHS AS/NZ 1163-C350						
Dimension d x b mm x mm	Thickness t mm	End Colour Codes	Lengths/ Mass/m kg/m	Bundle qty x m	Bundle Packed 8.0m W x H	Weight t - 8.0m
50 x 20	1.6	Purple	1.63	96 x 8	8 x 12	1.250
	2.0	Yellow	1.99	96 x 8	8 x 12	1.530
	2.5	Pink	2.42	72 x 8	6 x 12	1.400
	3.0	Blue	2.83	72 x 8	6 x 12	1.630
50 x 25	1.6	Purple	1.75	96 x 8	8 x 12	1.350
	2.0	Yellow	2.15	96 x 8	8 x 12	1.650
	2.5	Pink	2.62	72 x 8	6 x 12	1.510
	3.0	Blue	3.07	60 x 8	6 x 10	1.470
65 x 35	2.0	Yellow	2.93	54 x 8	6 x 9	1.270
	2.5	Pink	3.60	54 x 8	6 x 9	1.560
	3.0	Blue	4.25	45 x 8	5 x 9	1.530
	4.0	Green	5.35	35 x 8	5 x 7	1.500
75 x 25	1.6	Purple	2.38	65 x 8	4 x 13	1.240
	2.0	Yellow	2.93	65 x 8	5 x 13	1.530
	2.5	Pink	3.60	48 x 8	4 x 12	1.380
75 x 50	1.6	Purple	3.01	54 x 8	6 x 9	1.010
	2.0	Yellow	3.72	42 x 8	6 x 7	1.250
	2.5	Pink	4.58	42 x 8	6 x 7	1.540
	3.0	Blue	5.42	35 x 8	5 x 7	1.520
	4.0	Green	6.92	28 x 8	4 x 7	1.550
	5.0	Orange	8.35	24 x 8	4 x 6	1.600
	6.0	White	9.67	20 x 8	4 x 5	1.550
76 x 38	2.0	Yellow	3.37	56 x 8	7 x 8	1.510
	2.5	Pink	4.15	45 x 8	5 x 9	1.490
	3.0	Blue	4.90	40 x 8	4 x 10	1.570
	4.0	Green	6.23	32 x 8	4 x 8	1.590
100 x 50	1.6	Purple	3.64	32 x 8	4 x 8	0.931
	2.0	Yellow	4.50	32 x 8	4 x 8	1.150
	2.5	Pink	5.56	32 x 8	4 x 8	1.420
	3.0	Blue	6.60	32 x 8	4 x 8	1.690
	3.5	Grey	7.53	24 x 8	4 x 6	1.450
	4.0	Green	8.49	24 x 8	4 x 6	1.630
	5.0	Orange	10.3	18 x 8	3 x 6	1.490
102 x 76	6.0	White	12.0	15 x 8	3 x 5	1.440
	3.5	Grey	9.06	20 x 8	5 x 4	0.870
	5.0	Orange	12.5	16 x 8	4 x 4	0.901
	6.0	White	14.7	12 x 8	4 x 3	0.704
125 x 75	2.0	Yellow	6.07	24 x 8	4 x 6	1.170
	2.5	Pink	7.53	24 x 8	4 x 6	1.450
	3.0	Blue	8.96	20 x 8	4 x 5	1.430
	4.0	Green	11.6	15 x 8	3 x 5	1.400
	5.0	Orange	14.2	15 x 8	3 x 5	1.710
	6.0	White	16.7	12 x 8	3 x 4	1.610
127 x 51	3.5	Grey	9.07	21 x 8	3 x 7	0.870
	5.0	Orange	12.5	18 x 8	2 x 6	0.801
	6.0	White	14.7	14 x 8	2 x 7	0.939

Rectangular Section

RHS AS/NZ 1163-C350						
Dimension d x b mm x mm	Thickness t mm	End Colour Codes	Mass/m Painted kg/m	Lengths/ Bundle qty x m	Bundle Pack W x H	Bundle Weight t
150 x 50	2.0	Yellow	6.07	21 x 8	3 x 7	1.020
	2.5	Pink	7.53	24 x 8	3 x 8	1.450
	3.0	Blue	8.96	21 x 8	3 x 7	1.490
	4.0	Green	11.6	15 x 8	3 x 5	1.400
	5.0	Orange	14.2	15 x 8	3 x 5	1.710
	6.0	White	16.7	15 x 8	3 x 2	2.010
152 x 76	5.0	Orange	16.5	12 x 8	4 x 3	0.792
	6.0	White	19.4	9 x 8	3 x 3	0.930
150 x 100	4.0	Green	14.8	12 x 8	3 x 4	1.420
	5.0	Orange	18.2	12 x 8	3 x 4	1.740
	6.0	White	21.4	9 x 8	3 x 3	1.540
	8.0	Red	27.7	4 x 12	2 x 2	1.330
	9.0	Purple	30.6	6 x 8	2 x 3	1.470
	10.0	Yellow	33.4	4 x 12	2 x 2	1.600
200 x 100	4.0	Green	17.9	8 x 8	2 x 4	1.150
	5.0	Orange	22.1	8 x 8	2 x 4	1.410
	6.0	White	26.2	8 x 8	2 x 4	1.670
	8.0	Red	33.9	4 x 12	2 x 2	1.630
	9.0	Purple	37.7	4 x 12	2 x 2	1.810
250 x 150	5.0	Orange	29.9	6 x 8	2 x 3	1.440
	6.0	White	35.6	4 x 8	2 x 2	1.140
	8.0	Red	46.5	4 x 8	2 x 2	1.490
	9.0	Purple	51.8	4 x 8	2 x 2	1.660
	10.0	Yellow	57.0	2 x 12	1 x 2	1.370
	12.5	Blue	69.4	2 x 12	1 x 2	1.670
	16.0	Grey	85.5	1 x 12	1 x 1	1.030
300 x 200	6.0	White	45.0	2 x 12	1 x 2	1.080
	8.0	Red	59.1	2 x 12	1 x 2	1.420
	10.0	Yellow	72.7	2 x 12	1 x 2	1.740
	12.5	Blue	89.0	1 x 12	1 x 1	1.070
	16.0	Grey	111	1 x 12	1 x 1	1.330
350 x 250	8.0	Red	71.6	2 x 12	1 x 2	1.720
	10.0	Yellow	88.4	1 x 12	1 x 1	1.060
	12.5	Blue	109	1 x 12	1 x 1	1.300
	16.0	Grey	136	1 x 12	1 x 1	1.630
400 x 200	8.0	Red	71.6	2 x 12	1 x 2	1.720
	10.0	Yellow	88.4	1 x 12	1 x 1	1.060
	12.5	Blue	109	1 x 12	1 x 1	1.300
	16.0	Grey	136	1 x 12	1 x 1	1.630
400 x 300	8.0	Red	84.2	1 x 12	1 x 1	1.010
	10.0	Yellow	104	1 x 12	1 x 1	1.250
	12.5	Blue	128	1 x 12	1 x 1	1.540
	16.0	Grey	161	1 x 12	1 x 1	1.930

Cattle Rail

AS/NZS 1163-C350			
Dimension mm x mm	Thickness mm	Mass kg/m	Lengths/ Bundle qty x m
		Galvanised	
53 x 35	1.6	1.77	48 x 6.1
66 x 44	1.6	2.23	36 x 6.1
75 x 40	1.6	2.39	20 x 6.1
	2.0	2.97	20 x 6.1
115 x 42	2.0	4.27	21 x 6.1
	2.5	5.30	21 x 6.1

Flat Sided Round (Post)

<u>AS/NZS 1163-C350</u>				
Dimension mm x mm	Thickness mm	Mass kg/m		Lengths/ Bundle qty x m
		Painted	Galvanised	
62 x 50	2.0	2.88	2.88	25 x 6.1
80 x 61	2.0	3.65	3.65	25 x 6.1

Flat Bar

AS/NZS 3679. 1-300

Size mm x mm	Mass kg/m	Metres/Tonne Approx
10 x 3*	0.242	4150
13 x 3*	0.314	3195
x 5*	0.523	1912
x 6*	0.627	1594
16 x 3*	0.386	2591
x 5*	0.644	1556
x 8	1.030	971
20 x 3	0.483	2058
x 5	0.805	1243
x 6	0.966	1036
x 10	1.609	622
25 x 3	0.60	1656
x 5	1.00	994
x 6	1.21	829
x 8	1.61	622
x 10	2.01	497
x 12	2.42	413
32 x 3	0.77	1294
x 5	1.29	777
x 6	1.55	647
x 8	2.06	485
x 10	2.57	388
x 12	3.09	324
40 x 3	0.96	1035
x 5	1.61	622
x 6	1.93	518
x 8	2.57	388
x 10	3.22	311
x 12	3.86	259
x 16	5.15	194
x 20	6.44	155
50 x 3	1.21	829
x 5	2.01	497
x 6	2.42	414
x 8	3.22	311
x 10	4.03	249
x 12	4.83	207
x 16	6.44	155
x 20	8.05	124
x 25	10.1	99

Size mm x mm	Mass kg/m	Metres/Tonne Approx
65 x 3	1.57	637
x 5	2.61	382
x 6	3.14	319
x 8	4.18	239
x 10	5.23	191
x 12	6.27	159
x 16	8.36	120
x 20	10.5	96
x 25	13.1	76
75 x 5	3.01	331
x 6	3.62	276
x 8	4.83	207
x 10	6.04	166
x 12	7.25	138
x 16	9.66	104
x 20	12.1	85
x 25	15.1	67
x 40	24.2	42
90 x 6	4.35	230
x 8	5.79	173
x 10	7.25	138
x 12	8.69	115
100 x 5	4.03	249
x 6	4.83	207
x 8	6.44	155
x 10	8.05	124
x 12	9.66	104
x 16	12.9	79
x 20	16.1	62
x 25	20.1	51
x 50	40.3	25
110 x 5	4.42	226
x 6	5.31	189
x 8	7.08	142
x 10	8.86	113
x 12	10.7	94
130 x 5	5.23	192
x 6	6.27	160
x 8	8.36	120
x 10	10.5	96
x 12	12.5	80
x 16	16.7	60
x 20	20.9	48
x 25	26.1	39

*These sizes may have rounded edges.

Flat Bar

AS/NZS 3679. 1-300

Size mm x mm	Mass kg/m	Metres/Tonne Approx		Size mm x mm	Mass kg/m	Metres/Tonne Approx
150 x 5	6.04	166		200 x 12	19.3	52
x 6	7.25	138		x 16	25.7	40
x 8	9.66	104		x 20	32.2	32
x 10	12.1	83		x 25	40.3	25
x 12	14.5	69		250 x 6	12.1	83
x 16	19.3	53		x 8	16.1	62
x 20	24.2	42		x 10	20.1	51
x 25	30.1	34		x 12	24.2	42
x 50	60.4	17		x 16	32.2	31
180 x 6	8.69	115		x 20	40.3	25
x 10	14.5	69		x 25	50.3	20
x 12	17.4	59		300 x 6	14.5	69
x 16	23.2	43		x 8	19.3	53
x 20	29.0	35		x 10	24.2	42
x 25	36.2	28		x 12	29.0	35
200 x 6	9.66	104		x 16	38.6	26
x 8	12.9	79		x 20	48.3	21
x 10	16.1	62		x 25	60.4	17



Equal Angles

AS/NZS 3679. 1-300

Size mm x mm x mm	Mass kg/m	Metres/Tonne Approx		Size mm x mm	Mass kg/m	Metres/Tonne Approx
20 x 20 x 3*	0.87	1149		75 x 75 x 5	5.27	190
25 x 25 x 3	1.12	893		x 6	6.81	147
x 5	1.65	606		x 8	8.73	115
x 6	2.08	481		x 10	10.5	95
30 x 30 x 3	1.35	741		90 x 90 x 6	8.22	122
x 5	2.01	498		x 8	10.6	94
x 6	2.56	391		x 10	12.7	79
40 x 40 x 3	1.83	546		100 x 100 x 6	9.16	109
x 5	2.73	366		x 8	11.8	85
x 6	3.50	286		x 10	14.2	70
45 x 45 x 3	2.06	485		x 12	17.7	56
x 5	3.10	323		125 x 125 x 8	14.9	67
x 6	3.97	252		x 10	18.0	56
50 x 50 x 3	2.31	433		x 12	22.5	44
x 5	3.48	287		x 16	29.1	34
x 6	4.46	224		150 x 150 x 10	21.9	46
x 8	5.68	176		x 12	27.3	37
55 x 55 x 5	3.84	260		x 16	35.4	28
x 6	4.93	203		x 19	42.1	24
65 x 65 x 5	4.56	219		200 x 200 x 13	40.0	25
x 6	5.87	170		x 16	48.7	21
x 8	7.51	133		x 18	54.4	18
x 10	9.02	111		x 20	60.1	17
				x 26	76.8	13

Unequal Angles

AS/NZS 3679. 1-300

Size mm x mm x mm	Mass kg/m	Metres/Tonne Approx		Size mm x mm	Mass kg/m	Metres/Tonne Approx
65 x 50 x 5	4.02	249		125 x 75 x 6	9.16	109
x 6	5.16	194		x 8	11.8	85
x 8	6.59	152		x 10	14.2	70
75 x 50 x 5	4.40	227		x 12	17.7	56
x 6	5.66	177		150 x 90 x 8	14.3	70
x 8	7.23	138		x 10	17.3	58
100 x 75 x 6	7.98	125		x 12	21.6	46
x 8	10.3	97		x 16	27.9	36
x 10	12.4	81		150 x 100 x 10	18.0	56
				x 12	22.5	44



Round Mild Steel

Round Mild Steel AS/NZS 3679. 1-300

Diameter mm	Mass kg/m	Metres/Tonne Approx
6	0.233	4292
8	0.405	2469
10	0.638	1582
12	0.91	1099
14	1.24	808
16	1.62	618
18	2.05	489
20	2.53	396
22	3.06	327
24	3.64	275
27	4.61	217
30	5.69	176
33	6.88	145
36	8.19	122
39	9.61	104
42	11.15	90

Diameter mm	Mass kg/m	Metres/Tonne Approx
45	12.80	78
48	14.56	69
50	15.80	63
56	19.82	50
60	22.75	44
65	26.70	37
70	30.96	32
75	35.55	28
80	40.44	25
90	51.19	20
100	63.19	16
110	76.46	13
120	91.00	11
130	106.79	9
140	123.86	8
150	142.18	7

Square Mild Steel

Square Mild Steel AS/NZS 3679. 1-300

Size mm	Mass kg/m	Metres/Tonne Approx
10	0.805	1242
12	1.158	864
16	2.06	485
20	3.22	311
25	5.03	199
32	8.24	121
40	12.87	78

Light Billets AS1442 - 1040

Size mm	Mass kg/m	Metres/Tonne Approx
45	15.7	64
50	19.3	52
63	30.7	33
75	43.5	23
90	62.7	16
121	113.0	9
127	125.0	8
158	193.0	5

Universal Beams

<u>AS/NZS 3679. 1-300</u>					
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm
150 UB	14.0	150	75	7.0	5.0
	18.0	155	75	9.5	6.0
180 UB	16.1	173	90	7.0	4.5
	18.1	175	90	8.0	5.0
	22.2	179	90	10.0	6.0
200 UB	18.2	198	99	7.0	4.5
	22.3	202	133	7.0	5.0
	25.4	203	133	7.8	5.8
	29.8	207	134	9.6	6.3
250 UB	25.7	248	124	8.0	5.0
	31.4	252	146	8.6	6.1
	37.3	256	146	10.9	6.4
310 UB	32.0	298	149	8.0	5.5
	40.4	304	165	10.2	6.1
	46.2	307	166	11.8	6.7
360 UB	44.7	352	171	9.7	6.9
	50.7	356	171	11.5	7.3
	56.7	359	172	13.0	8.0
410 UB	53.7	403	178	10.9	7.6
	59.7	406	178	12.8	7.8
460 UB	67.1	454	190	12.7	8.5
	74.6	457	190	14.5	9.1
	82.1	460	191	16.0	9.9
530 UB	82.0	528	209	13.2	9.6
	92.4	533	209	15.6	10.2
610 UB	101	602	228	14.8	10.6
	113	607	228	17.3	11.2
	125	612	229	19.6	11.9

Universal Columns

<u>AS/NZS 3679. 1-300</u>					
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm
100 UC	14.8	97	99	7.0	5.0
150 UC	23.4	152	152	6.8	6.1
	30.0	158	153	9.4	6.6
	37.2	162	154	11.5	8.1
200 UC	46.2	203	203	11.0	7.3
	52.2	206	204	12.5	8.0
	59.5	210	205	14.2	9.3
250 UC	72.9	254	254	14.2	8.6
	89.5	260	256	17.3	10.5
310 UC	96.8	308	305	15.4	9.9
	118	315	307	18.7	11.9
	137	321	309	21.7	13.8
	158	327	311	25.0	15.7

Welded Beams

AS/NZS 3679. 1-300					
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm
700WB	115	692	250	16	10
	130	700	250	20	10
	150	710	250	25	10
	173	716	275	28	10
800WB	122	792	250	16	10
	146	800	275	20	10
	168	810	275	25	10
	192	816	300	28	10
900WB	175	900	300	20	12
	218	910	350	25	12
	257	916	400	28	12
	282	924	400	32	12
1000WB	215	1000	300	20	16
	258	1010	350	25	16
	296	1016	400	28	16
	322	1024	400	32	16
1200WB	249	1170	275	25	16
	278	1170	350	25	16
	317	1176	400	28	16
	342	1184	400	32	16
	392	1184	500	32	16
	423	1192	500	36	16
	455	1200	500	40	16

Welded Columns

AS/NZS 3679. 1-300					
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm
350WB	197	331	350	28	20
	230	339	350	32	25
	258	347	350	36	28
	280	355	350	40	28
400WB	144	382	400	16	16
	181	390	400	20	20
	212	400	400	25	20
	270	414	400	32	25
	303	422	400	36	28
	328	430	400	40	28
	361	430	400	40	40
500WB	228	490	500	20	20
	267	500	500	25	20
	290	506	500	28	20
	340	514	500	32	25
	383	472	500	36	32
	414	480	500	40	32
	440	480	500	40	40

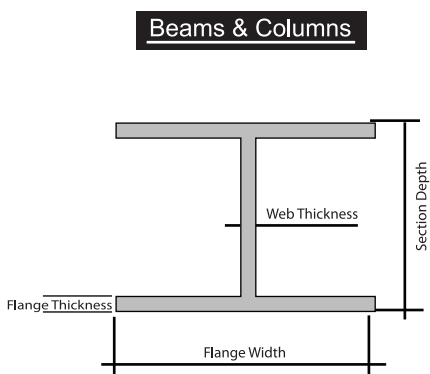
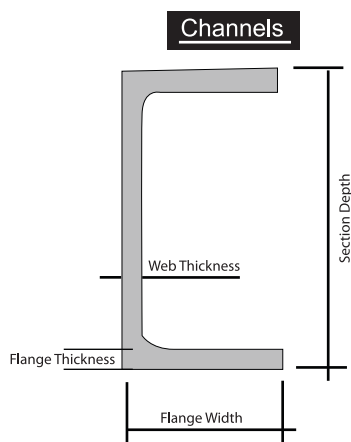
Taper Flanged Channel

AS/NZS 3679. 1-300					
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm
50 x 25	4.46	50	25	5.0	4.0

Parallel Flanged Channel

AS/NZS 3679. 1-300					
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm
75 x 40	5.92	75	40	6.1	3.8
100 x 50	8.33	100	50	6.7	4.2
125 x 65	11.9	125	65	7.5	4.7
150 x 75	17.7	150	75	9.5	6.0
180 x 75	20.9	180	75	11.0	6.0
200 x 75	22.9	200	75	12.0	6.0
230 x 75	25.1	230	75	12.0	6.5
250 x 90	35.5	250	90	15.0	8.0
300 x 90	40.1	300	90	16.0	8.0
380 x 100	55.2	380	100	17.5	10.0

Dimension Reference



Galvanised Profiles

FLATS			EQUAL ANGLES		
Size mm x mm	Mass kg/m	Metres/Tonne Approx	Size mm x mm x mm	Mass kg/m	Metres/Tonne Approx
50 x 4.0 x 5.0	1.49 1.84	671 548	30 x 30 x 2.5	1.06	943
65 x 4.0 x 5.0	1.94 2.40	515 417	40 x 40 x 2.5 x 4.0	1.43 2.20	699 455
75 x 4.0 x 5.0	2.24 2.77	446 361	45 x 45 x 2.5 x 4.0	1.62 2.50	617 400
100 x 4.0 x 5.0 x 6.0 x 8.0	2.98 3.69 4.71 6.28	336 271 212 159	50 X 50 X 2.5 X 4.0 X 5.0 X 6.0	1.81 2.79 3.42 4.21	552 358 292 238
130 x 5.0	4.80	208	65 X 65 X 4.0 X 5.0 X 6.0	3.69 4.52 5.62	271 221 178
150 x 5.0 x 6.0 x 8.0	5.53 7.07 9.42	181 141 106	75 X 75 X 4.0 X 5.0 X 6.0 X 8.0	4.29 5.26 6.56 8.59	233 190 152 116
200 x 5.0 x 6.0 x 8.0	7.38 9.42 12.6	136 106 79	90 X 90 X 5.0 8.0	6.37 10.5	157 95
250 x 5.0 x 8.0	9.22 15.7	108 64	100 x 100 x 6.0 x 8.0	8.92 11.7	112 85
300 x 5.0 x 8.0	11.1 18.8	90 53	125 x 125 x 4.0 x 5.0 x 8.0	7.27 8.95 14.9	138 112 67
CHANNELS			150 x 150 x 5.0 x 8.0	10.8 18.0	93 56
75 x 40 x 4.0	4.25	235	UNEQUAL ANGLES		
100 x 50 x 4.0	5.59	179	75 x 50 x 4.0 x 5.0	3.54 4.34	282 230
125 x 65 x 4.0	7.23	188			
150 x 75 x 5.0	10.5	95			
180 x 75 x 5.0	11.6	86			
200 x 75 x 5.0 x 6.0	12.4 15.5	81 65			
230 x 75 x 6.0	16.9	59			
250 x 90 x 6.0	19.2	52			
300 x 90 x 6.0 x 8.0	21.6 28.5	46 35			

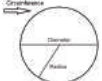
Deformed Reinforcing Bar

AS/NZS 4671		
Diameter	Mass kg/m / mtr	Metres Per Tonne
10	0.64	1563
12	0.92	1087
16	1.64	610
20	2.56	391
24	3.69	271
28	5.03	199
32	8.31	120
36	10.26	97

Geometric Shapes

The following are formulas to convert the areas and volumes of common shapes

How to Calculate Geometric Shapes

Shape	Area or Volume	Formula	Results - Area or Volume
Rectangles Squares Cubes 	Area Volume	Multiply the length by width Length x Width x Height 	$A (m) \times B (m) = \text{Square metres}$ $A (m) \times B (m) \times H (m) = \text{Cubic metres}$ 
Circles Section of a Circle 	Circumference Area	Multiply diameter x Pi or (3.142858) (Pi) x Radius x Radius or (R^2) 	$D (m) \times (\text{Pi}) = \text{metres}$ $(R^2) \times (\text{Pi}) = \text{Square metres}$ 
Triangles 	Area	Base x Height 	$B/2 (m) \times H = \text{Square metres}$ 
Ellipse 	Area Volume	Long axis x Short axis x 0.7854 Long axis x Short axis x 0.7854 x L	$D1 (m) \times D2 (m) \times 0.7854 = \text{Square metres}$ $D1 (m) \times D2 (m) \times 0.7854 \times L (m) = \text{Square metres}$
Cylinder 	Area Volume	Circumference of base x Height Area of base x Height	$D (m) \times (\text{Pi}) \times H (m) = \text{Square metres}$ $(R^2) \times (\text{Pi}) \times H (m) = \text{Cubic metres}$
Sphere 	Area Volume	Diameter x Diameter x (Pi) Diameter x Diameter x Diameter x 0.5236	$D (m) \times D (m) \times (\text{Pi}) = \text{Square metres}$ $D (m) \times D (m) \times 0 (m) \times 0.5236 = \text{Cubic metres}$
Pyramid 	Area Volume	Perimeter of base x slant height/3 Area of base x vert height/3	$A (m) + B (m) \times 2 \times \text{slant height}/3 = \text{Square metres}$ $A (m) \times B (m) \times H (m)/3 = \text{Cubic metres}$

Π (Pronounced Pi) = 22 divided by 7 or (3.132858)

Conversion Tables

Length - Fraction of inches/mm				Length - cms/inches/cms				Mass - kilos/pounds/kilos			
Inches	mm	Inches	mm	cm	Inches	Inches	cm	kilograms (kg)	pound (lb)	pound (lb)	kilograms (kg)
1/32	0.7938	7/8	22.2250	1	0.3937	1	2.54	1	2.205	1	0.4536
1/16	1.5875	29/32	23.0188	2	0.7874	2	5.08	2	4.409	2	0.9072
3/32	2.3813	15/16	23.8125	3	1.1810	3	7.62	3	6.614	3	1.361
1/8	3.1750	31/32	24.6063	4	1.5750	4	10.16	4	8.818	4	1.814
5/32	3.9688	1	25.4000	5	1.9690	5	12.70	5	11.02	5	2.268
3/16	4.7625	1 1/32	26.1938	6	2.3620	6	15.24	6	13.23	6	2.722
7/32	5.5563	1 1/16	26.9875	7	2.756	7	17.78	7	15.43	7	3.175
1/4	6.3500	1 3/32	27.7813	8	3.1500	8	20.32	8	17.64	8	3.629
9/32	7.1438	1 1/8	28.5750	9	3.5430	9	22.86	9	19.84	9	4.082
5/16	7.9375	1 5/32	29.3688	10	3.9370	10	25.40	10	22.05	10	4.536
11/32	8.7313	1 3/16	30.1625	50	19.690	50	127.0	50	110.2	50	22.68
3/8	9.5250	1 7/32	30.9563	100	39.370	100	254.0	100	220.5	100	45.36
13/32	10.3188	1 1/4	31.7500								
7/16	11.1125	1 9/32	32.5438								
15/32	11.9063	1 5/16	33.3375								
1/2	12.7000	1 11/32	34.1313								
17/32	13.4938	1 3/8	34.9250								
9/16	14.2875	1 13/32	35.7188								
19/32	15.0813	1 7/16	36.5125								
5/8	15.8750	1 15/32	37.3063								
21/32	16.6688	1 1/2	38.1000								
11/16	17.4625	1 17/32	38.8938								
23/32	18.2563	1 9/16	39.6875								
3/4	19.0500	1 19/32	40.4813								
25/32	19.8438	1 5/8	41.2750								
13/16	20.6375	1 21/32	42.0689								
27/32	21.4313	1 11/16	42.8625								

Length - kms/miles/kms			
kilometre (km)	miles	miles	kilometre (km)
1	0.6214	1	1.609
2	1.243	2	3.219
3	1.864	3	4.828
4	2.486	4	6.437
5	3.107	5	8.047
6	3.728	6	9.656
7	4.350	7	11.27
8	4.971	8	12.87
9	5.592	9	14.48
10	6.214	10	16.09
50	31.07	50	80.47
100	62.14	100	160.93

Ibif - Newtons			
lbf	N	lbf	N
1	4.45	80	355.9
2	8.90	90	400.3
3	13.34	100	445
4	17.79	200	890
5	22.24	300	1334
6	26.69	400	1779
7	31.14	500	2224
8	35.58	600	2669
9	40.03	700	3114
10	44.50	800	3559
20	88.96	900	4003
30	133.40	1000	4448
40	177.90	2000	8896
50	222.40	3000	13344
60	266.88	4000	17792
70	311.40	5000	22240

Pressure - psi/MPa/psi			
psi	MPa	MPa	psi
1	0.006895	0.1	14.5
50	0.3447	0.2	29.01
100	0.6895	0.3	43.51
200	1.379	0.4	58.02
300	2.068	0.5	72.52
400	2.758	0.6	87.02
500	3.447	1.0	145.01
600	4.137	1.5	217.6
700	4.826	2.0	290.1
800	5.516	2.5	362.8
900	6.205	3.0	435.1
1000	6.895	3.5	507.8
1100	7.584	4.0	580.2
1200	8.274	4.5	652.7
1300	8.936	5.0	725.4
1400	9.653	5.5	797.7

Pressure - psi/MPa/psi			
psi	MPa	MPa	psi
1500	10.34	6.0	870.2
1600	11.03	6.5	943.0
1700	11.72	7.0	1015
1800	12.41	8.0	1160
1900	13.10	9.0	1305
2000	13.79	10.0	1450
2100	14.48	11.0	1595
2200	15.17	12.0	1740
2300	15.86	13.0	1885
2400	16.55	14.0	2031
2500	17.24	15.0	2176
2600	17.93	16.0	2321
2700	18.62	17.0	2466
2800	19.31	18.0	2611
2900	19.99	19.0	2756
3000	20.68	20.0	2901

Conversion Tables

Birmingham Sheet Gauge				Quick Tips!	
Size in Inches	Thickness approx mm	Birmingham Gauge(B.G)	Inch equiv to B.G	To Calculate the mass of steel circular hollow sections.	
3/8	10.0 9.0	0 1	0.3964 0.3532		
5/16	8.0 7.0	2 3	0.3147 0.2804	Circular sections Mass = (OD -w t) x w t x 0.024661 where: Mass = mass/metre (kg/m) OD = outside diameter (mm) w t = section thickness (mm)	
1/4	6.0 5.5	4 5	0.2500 0.2225	To Calculate the mass for steel plate sections.	
3/16	5.0 4.5	6 7	0.1981 0.1764	Mass = tx 7.850 x(LxW) where: Mass = mass/metre2 (kg/m2) t = thickness of plate (mm) L = length of plate (m) W = width of plate (m) To calculate the mass for Floorplate, add 2 kg/m2	
5/32	4.0 3.5	8 9	0.1570 0.1398	To Calculate the mass for Flats, Squares & Rounds.	
1/8	3.0 2.8	10 11	0.1250 0.1113	Flats: Width (mm) x Thickness (mm) x 0.00785 = kg/m. Squares: Size (mm2) x 0.00785 = kg/m. Rounds: Dia: (mm2) x 0.006165 = kg/m.	
3/32	2.5 2.2	12 13	0.0991 0.0882	Australian Standards as listed in this Steel	
5/64	2.0 1.8	14 15	0.0785 0.0699		
1/16	1.6 1.4	16 17	0.0625 0.0556	Standard Number Relevance	
3/64	1.2 1.1 1.0 0.90	18 19 20 21	0.0495 0.0440 0.0392 0.0349	AS 1074	Steel and tubulars for ordinary service.
1/32	0.80 0.70	22 23	0.0313 0.0278	AS 1163	Structural steel hollow sections.
	0.60 0.55 0.50 0.45	24 25 26 27	0.0247 0.0220 0.0196 0.0174	AS1722.1	Pipe threads of whitworth form.
1/64	0.40 0.35 0.30 0.28 0.25 0.22 0.20 0.18 0.16 0.14 0.12 0.11 0.10	28 29 30 31 32 33 34 35 36 37 38 39 40	0.0156 0.0139 0.0123 0.0110 0.0098 0.0087 0.0077 0.0069 0.0061 0.0054 0.0048 0.0043 0.0038	AS/NZS 3679.1	Structural steel - Hot rolled bars and sections.
				AS/NZS 3678	Steel Hot rolled plates & floor plates.
				AS 1397	Steel sheet and strip - Hot dipped zinc coated or aluminium/zinc coated.
				Australian Standards are from Standards Australia.	

Australian Standards are from Standards Australia.

Important Details

Location _____ Ph: _____ Fax: _____

Sales Contact _____ Ph: _____ Fax: _____

Credit Contact _____ Ph: _____ Fax: _____

Account Number _____



RHS & SHS	
Thickness	Colour
1.5mm	Red
1.6mm	Purple
2.0mm	Yellow
2.5mm	Pink
3.0mm	Blue
3.5mm	Grey
4.0mm	Green
5.0mm	Orange
6.0mm	White
8.0mm	Red
9.0mm	Purple
12.0mm	Pink

Channels	
75 x 40	Blue
100 x 50	Purple
125 x 65	Red
150 x 75	Blue
180 x 75	Purple
200 x 75	Red
230 x 75	White
250 x 90	Orange
300 x 90	Yellow
380 x 100	White

Round & D-Bar	
6mm	White
8mm	Red
10mm	Yellow
12mm	Pink
14mm	Orange
16mm	Grey
18mm	Purple
20mm	Green
22mm	White
24mm	Pink
27mm	Blue
30mm	Yellow
33mm	Grey
36mm	Red
39mm	Orange
45mm	Pink
50mm	Green

ANGLE	
Thickness	Colour
2.0mm	Yellow
3.0mm	Blue
4.0mm	Green
5.0mm	Orange
6.0mm	White
8.0mm	Red
10.0mm	Yellow
12.0mm	Pink
14.0mm	Orange
16.0mm	Grey
20.0mm	Green
25.0mm	Purple

Square Bar	
10mm	Yellow
12mm	Pink
16mm	Grey
20mm	Green
25mm	Purple
32mm	Orange
40mm	Yellow
50mm	Green

Uni Columns	
100/14.8kg/mtr	Blue
150/ 23.4kg/mtr	Blue
30kg/mtr	Purple
37.2kg/mtr	Red
200/46.2kg/mtr	Blue
52.2kg/mtr	Purple
59.5kg/mtr	Red
250/72.9kg/mtr	Blue
89.5kg/mtr	Purple
310/96.8kg/mtr	White
118kg/mtr	Blue
137kg/mtr	Purple
158kg/mtr	Red

Structural Pipe	
168.3 ODx4.8mm	White
168.3 ODx6.4mm	Orange
219.1 ODx4.8mm	Purple
219.1 ODx6.4mm	Red

UNI BEAMS	
Thickness	Colour
150/14.0kg/mtr	Blue
18kg/mtr	Purple
180/ 16.1 kg/mtr	Blue
18.1 kg/mtr	Purple
22.2kg/mtr	Red
200/ 18.2kg/mtr	White
22.2kg/mtr	Blue
25.4kg/mtr	Purple
29.8kg/mtr	Red
250/ 25.7kg/mtr	Blue
31.4kg/mtr	Purple
37.3kg/mtr	Red
310/ 32.0kg/mtr	Blue
40.4kg/mtr	Purple
46.2kg/mtr	Red
360/44.7kg/mtr	Blue
50.7kg/mtr	Purple
56.7kg/mtr	Red
410/ 53.7kg/mtr	Blue
59.7kg/mtr	Purple
460/ 67.1 kg/mtr	Blue
74.6kg/mtr	Purple
82.1kg/mtr	Red
530/82.0kg/mtr	Blue
92.4kg/mtr	Purple
610/ 101 kg/mtr	Blue
113kg/mtr	Purple
125kg/mtr	Red

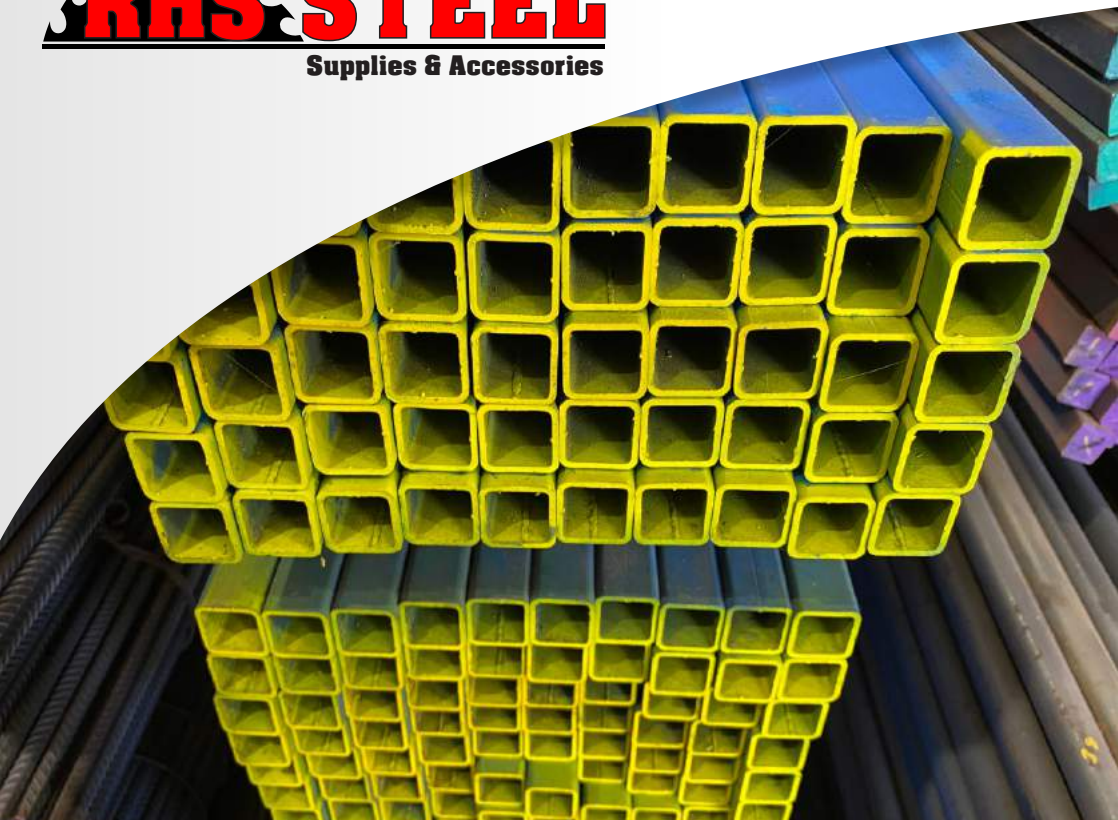
ERW Tube	
16mm	White
19mm	Pink

Pipe	
Extra Light	Green
Light	Yellow
Medium	Blue
Heavy	Red
Extra Heavy	White

Taper Beams	
100 x 45	Purple
125 x 65	Red

RHS STEEL

Supplies & Accessories



How to contact us

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