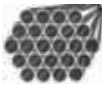


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# Medium, Heavy & X-Heavy Pipe

## STEEL PIPE - Medium, Heavy & Extra Heavy

Nominal Size (NB)	Outside Diameter mm	Wall Thickness mm	Quantity per Sling	Description	Black		Galvanized	
					Plain Ends & Screwed Both Ends			
					kg/m	m/tonne	kg/m	m/tonne
10*	17.2	2.3	217	Medium	0.839	1191.9	0.885	1129.9
* This item is sourced locally and is now supplied as 217 lengths not 300 lengths as per an imported section.								
15	21.3	2.6	217	Medium	1.20	833.3	1.22	819.7
		3.2		Heavy	1.43	699.3	1.45	689.7
20	26.9	2.6	127	Medium	1.56	641.0	1.60	625.0
		3.2		Heavy	1.87	534.8	1.92	520.8
25	33.7	3.2	91	Medium	2.41	414.9	2.46	406.5
		4.0		Heavy	2.93	341.3	2.99	334.4
32	42.4	3.2	61	Medium	3.09	323.6	3.17	315.5
		4.0		Heavy	3.79	263.9	3.86	259.1
40	48.3	3.2	61	Medium	3.56	280.9	3.64	274.7
		4.0		Heavy	4.37	228.8	4.45	224.7
		4.9		Scaffold	5.24	190.8	-	-
		5.4		X-Heavy	5.71	175.1	-	-
50	60.3	3.6	37	Medium	5.03	198.8	5.14	194.6
		4.5		Heavy	6.19	161.6	6.30	158.7
		5.4		X-Heavy	7.31	136.8	-	-
65	76.1	3.6	37	Medium	6.44	155.3	6.57	152.2
		4.5		Heavy	7.95	125.8	8.08	123.8
		5.9		X-Heavy	10.2	98.0	-	-
80	88.9	4.0	19	Medium	8.38	119.3	8.54	117.1
		4.9		Heavy	10.3	97.1	10.60	94.3
		5.9		X-Heavy	12.1	82.6	-	-
90	101.6	4.0	19	Medium	9.63	103.8	9.81	101.9
		4.9		Heavy	11.9	84.0	12.2	82.0
100	114.3	4.5	19	Medium	12.2	82.0	12.4	80.6
		5.4		Heavy	14.5	69.0	14.7	68.0
125	139.7	4.9	13	Medium	16.6	60.2	16.9	59.2
		5.4		Heavy	17.9	55.9	18.1	55.2
150	165.1	4.9	10	Medium	19.7	50.8	20.0	50.0
		5.4*		Heavy	21.3	46.9	21.6	46.3

### Standard Pipe Colour Codes

Blue - Medium

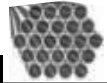
Red - Heavy

White - X-Heavy

Notes \_\_\_\_\_



# Extra Light & Light Pipes



## STEEL PIPE - Light & Extra Light

Designation (NB)	Outside Diameter mm	Wall Thickness mm	Lengths/ Bundle 6.5m	Description	Black		Galvanized	
					Plain Ends		Plain Ends	
					kg/m	m/tonne	kg/m	m/tonne
20NB	26.9	2.0XL *	127	Extra Light	1.23	813.0	1.28	781.3
		2.3L		Light	1.40	714.3	1.44	694.4
25NB	33.7	2.0XL *	91	Extra Light	1.56	641.0	1.63	613.5
		2.6L		Light	1.99	502.5	2.05	487.8
32NB	42.2	2.0XL *	61	Extra Light	1.99	502.5	2.07	483.1
		2.6L		Light	2.55	392.2	2.63	380.2
40NB	48.3	2.3XL *	61	Extra Light	2.61	383.1	2.70	370.4
		2.9L		Light	3.25	307.7	3.33	300.3
50NB	60.3	2.3XL *	37	Extra Light	3.29	304.0	3.40	294.1
		2.9L		Light	4.11	243.3	4.21	237.5
65NB	76.1	2.3XL	37	Extra Light	4.19	238.7	4.32	231.5
		3.2L		Light	5.75	173.9	5.89	169.8
80NB	88.9	2.6XL	19	Extra Light	5.53	180.8	5.70	175.4
		3.2L		Light	6.76	147.9	6.93	144.3
90NB	101.6	2.6XL	19	Extra Light	6.35	157.5	6.53	153.1
		3.2L		Light	7.77	128.7	7.95	125.8
100NB	114.3	3.2XL	19	Extra Light	8.77	114.0	8.98	111.4
		3.6L		Light	9.83	101.7	10.0	100.0
125NB	139.7	3.0XL	13	Extra Light	10.1	99.0	10.4	96.2
		3.5L		Light	11.8	84.7	12.0	83.3
150NB	165.1	3.0XL	10	Extra Light	12.0	83.3	12.3	81.3
		3.5L		Light	13.9	71.9	14.3	69.9

### Colour Codes

Green - Extra Light

Yellow - Light

Notes

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**no flies...**

# Large Diameter ERW Pipes

Outside Diameter mm	Wall Thickness mm	mass kg/m	Typical Length m	Lengths per Sling
168.3	4.0	16.2	12	7
	5.0	20.1	12	7
	6.0	24.0	12	3
	8.0	31.6	12	3
	10.0	39.0	12	3
193.7	5.0	23.3	12	3
	6.0	27.8	12	3
	8.0	36.6	12	3
	10.0	45.3	12	3
219.1	5.0	26.4	12	3
	6.0	31.5	12	3
	8.0	41.6	12	3
	10.0	51.6	12	1
	12.5	63.7	12	1
273.1	5.0	33.1	12	3
	6.0	39.5	12	3
	8.0	52.3	12	3
	10.0	64.9	12	1
	12.5	80.3	12	1
323.9	6.0	47.0	12	3
	8.0	62.3	12	1
	10.0	77.4	12	1
	12.5	96.0	12	1
355.6	8.0	68.6	12	1
	10.0	85.2	12	1
	12.5	106.0	12	1
	16.0	134.0	12	1
406.4	8.0	78.6	12	1
	10.0	97.8	12	1
	12.5	121.0	12	1
	16.0	154.0	12	1
457.0	10.0	110.0	12	1
	12.5	137.0	12	1
	16.0	174.0	12	1
508.0	10.0	123.0	12	1
	12.5	153.0	12	1
	16.0	194.0	12	1

Notes \_\_\_\_\_

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## Telescoping Pipe Guide

NB	Female (Outer)	O.D. x t mm x mm	Male (Inner)	
			N.B.	Clear-mm
10	Medium	17.2 x 2.3	n/a	n/a
	Heavy	17.2 x 2.9	n/a	n/a
15	Light	21.3 x 2.0	n/a	n/a
	<b>Medium</b>	<b>21.3 x 2.6</b>	<b>8</b>	<b>1.6</b>
	<b>Heavy</b>	<b>21.3 x 3.2</b>	<b>8</b>	<b>0.4</b>
20	<b>Extra Light</b>	<b>26.9 x 2.0</b>	<b>15</b>	<b>0.4</b>
	Light	26.9 x 2.3	10	4.1
	Medium	26.9 x 2.6	10	3.5
	Heavy	26.9 x 3.2	10	2.2
	<b>Extra Light</b>	<b>33.7 x 2.0</b>	<b>20</b>	<b>1.6</b>
25	<b>Light</b>	<b>33.7 x 2.6</b>	<b>20</b>	<b>0.4</b>
	Medium	33.7 x 3.2	15	4.8
	Heavy	33.7 x 4.0	15	3.2
32	Extra Light	42.4 x 2.0	25	3.5
	Light	42.4 x 2.6	25	2.3
	<b>Medium</b>	<b>42.4 x 3.2</b>	<b>25</b>	<b>1.1</b>
	Heavy	42.4 x 4.0	20	6.3
40	<b>Extra Light</b>	<b>48.3 x 2.3</b>	<b>32</b>	<b>0.1</b>
	Light	48.3 x 2.9	25	7.6
	Medium	48.3 x 3.2	25	7.0
	Heavy	48.3 x 4.0	25	5.4
	Scaffold	48.3 x 4.9	25	2.4
	Extra Heavy	48.3 x 5.4	n/a	n/a
50	Extra Light	60.3 x 2.3	40	6.4
	Light	60.3 x 2.9	40	5.2
	Medium	60.3 x 3.6	40	3.8
	<b>Heavy</b>	<b>60.3 x 4.0</b>	<b>40</b>	<b>2.0</b>
65	<b>Extra Heavy</b>	<b>60.3 x 5.4</b>	<b>40</b>	<b>0.2</b>
	Extra Light	76.1 x 2.3	50	9.8
	Light	76.1 x 3.2	50	8.0
	Medium	76.1 x 3.6	50	7.2
	Heavy	76.1 x 4.5	50	5.4
80	Extra Heavy	76.1 x 5.9	50	2.6
	Extra Light	88.9 x 2.6	65	6.0
	Light	88.9 x 3.2	65	4.8
	Medium	88.9 x 4.0	65	3.2
	<b>Heavy</b>	<b>88.9 x 4.9</b>	<b>65</b>	<b>1.2</b>
	Extra Heavy	88.9 x 5.9	50	15.3

## Telescoping Pipe Guide

NB	Female (Outer)	O.D. x t mm x mm	Male (Inner)	
			N.B.	Clear-mm
90	Extra Light	101.6 x 2.6	80	5.6
	Light	101.6 x 3.2	80	4.4
	Medium	101.6 x 4.0	80	2.8
	<b>Heavy</b>	<b>101.6 x 5.0</b>	<b>80</b>	<b>0.8</b>
100	Extra Light	114.3 x 3.2	90	4.1
	Light	114.3 x 3.6	90	3.3
	<b>Medium</b>	<b>114.3 x 4.5</b>	<b>90</b>	<b>1.5</b>
125	Heavy	114.3 x 5.4	80	12.6
	Extra Light	139.7 x 3.0	100	16.9
	Light	139.7 x 3.5	100	15.9
150	Medium	139.7 x 5.0	100	12.9
	Heavy	139.7 x 5.4	100	12.1
	Extra Light	165.1 x 3.0	125	16.4
150	Light	165.1 x 3.5	125	15.4
	Medium	165.1 x 5.0	125	12.4
	Heavy	165.1 x 5.4	125	11.6

### Note:

Hot Dipped Galvanized CHS are not precision tubes and all dimensions shown in this chart, although in accordance with the specifications, may vary marginally. Internal weld bead height may need to be considered when a closer fit is required.

### How to use this chart

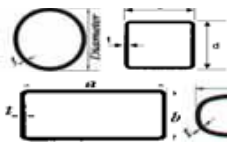
1. Select the size of female (or outside) CHS closest to your needs from the left hand column.
2. Depending on the application select the clearance required between the two members. Members may need to slide freely inside each other, or be locked with a pin, spot weld or fixed with wedges. This means in some cases, a 'sloppy' fit may be suitable while for others the tightest fit possible may be appropriate.
3. Having selected the most suitable clearance for your application take the size of the male (inner) selection from column three.
4. Where two telescoping sections are being used, thickness should be similar and will be determined by normal structural requirements. If a third section is to be used, consideration of both clearance and thickness within the size list available may be require
5. CHS may need to be fixed against twisting by welding or bolting.
6. Press Fit. For short pieces with no need for separation or sliding an interference fit can be achieved using the available ductility of the steel.

Sizes with a clearance less than 2.0mm are shown bold in the charts. For tight fits, it is recommended that some form of testing is carried out prior to committing material. Where telescoping over some length is desired, additional allowance may be needed for straightness.

Notes \_\_\_\_\_

**no flies....**



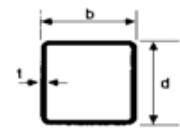


# E.R.W. Tubing

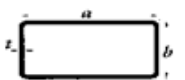
Electric Resistance Welded Tubing					
Shape	Commercial	Galvanized	Shape	Commercial	Galvanized
<b>Rounds</b>	Mass	Mass	<b>Squares</b>	Mass	Mass
O.D. x wt	kg/m	kg/m	mmxmmxmm	kg/m	kg/m
12.7 x 1.2	0.341	-	12.7x12.7x1.2	0.449	-
12.7 x 1.6	0.438	-	12.7x12.7x1.6	0.582	-
15.9 x 1.2	0.438	0.438	15.9x15.9x1.2	0.553	-
15.9 x 1.6	0.568	-	15.9x15.9x1.6	0.720	-
19.0 x 1.2	0.527	0.527	19.0x19.0x1.2	0.642	0.677
19.0 x 1.6	0.687	0.687	19.0x19.0x1.6	0.840	0.889
19.0 x 2.0	0.838	-	22.2x22.2x1.2	0.762	-
22.2 x 1.2	0.621	0.622	22.2x22.2x1.6	1.000	-
22.2 x 1.4	0.718	-	25.4x25.4x1.2	0.883	0.906
22.2 x 1.6	0.813	0.813	25.4x25.4x1.4	1.023	-
25.4 x 1.2	0.716	0.716	25.4x25.4x1.6	1.161	1.192
25.4 x 1.6	0.939	0.939	25.4x25.4x2.0	1.415	-
25.4 x 2.0	1.154	-	31.8x31.8x1.26	1.159	-
28.6 x 1.2	0.811	-	31.8x31.8x1.6	1.483	1.531
28.6 x 1.6	1.066	-	34.9x34.9x1.6	1.630	-
31.8 x 1.2	0.906	0.906	38.1x38.1x1.6	1.794	-
31.8 x 1.6	1.192	1.192	50.8x50.8x1.6	2.443	2.443
31.8 x 2.0	1.470	-	<b>Electric Resistance Welded Tubing</b>		
38.1 x 1.2	1.089	1.089	Shape	Commercial	Galvanized
38.1 x 1.6	1.440	-	<b>Rectangles</b>	Mass	Mass
38.1x2.0	1.780	-	mmxmmxmm	kg/m	kg/m
38.1 x 2.5	2.270	-	25.4x12.7x1.2	0.642	-
41.3 x 1.6	1.566	1.567	25.4x12.7x1.6	0.842	-
44.5 x 1.6	1.693	1.693	34.9x19.0x1.6	1.242	-
47.6 x 1.6	1.815	-	38.1x25.4x1.6	1.478	1.478
50.8 x 1.2	1.474	-	38.1x25.4x2.0	-	1.894
50.8 x 1.6	1.941	1.949	50.8x25.4x1.6	1.815	1.815
50.8 x 2.0	2.407	-	50.8x31.8x1.6	2.131	-
54.0 x 1.6	2.068	-	50.8x31.8x2.0	2.417	-
57.2 x 1.6	2.186	-	57.1x34.9x1.6	2.186	-
57.2 x 2.0	2.713	-	57.1x34.9x2.0	2.713	-
60.3 x 1.6	2.316	-	<b>Electric Resistance Welded Tubing</b>		
60.3 x 2.0	2.876	-	Shape	Commercial	Galvanized
63.5 x 1.6	2.442	-	<b>OVALS</b>	Mass	Mass
63.5 x 2.0	3.033	-	mmxmmxmm	kg/m	kg/m
76.2 x 1.6	2.940	-	31.0x16x1.6	0.939	-
76.2 x 2.0	3.655	-	51.0x16x1.6	1.464	-



Easy to cut, weld drill, paint or powder coat.



Suitable for a wide range of uses.



Commercial tubing has a smooth finish - ideal for Chrome Plating.



Finish:-  
Standard lengths:-

Pre Galvanized commercial grade to G250 Z275 and G310 Z450. Surfaces are lightly oiled.  
ERW Sections are normally supplied in 6.100 metres. However special lengths may be negotiated. Other section sizes may be available.

Thickness tolerance:-  
Some many uses include:-

(+/- 8%) of specified wall thickness. Lengths supplied as -0mm + 50mm.  
Tent Poles, Coach Framing, Luggage & Shopping Trolleys, Outdoor Furniture, Safety Ladders, Fencing & Framing, Handrailing & Balustrading, Children's Play Equipment.



Notes \_\_\_\_\_

# RHS Mass & Bundling Data

Shaded areas indicate galvanized sections



Square RHS					
Dimension d x b mm x mm	End Colour Codes	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m	
13 x 13	Brown	1.8	0.568	96 x 6.5	
15 x 15	Brown	1.8	0.681	100 x 6.5	
20 x 20	Purple	1.6	0.873	100 x 6.5	
	Yellow	2	1.05	100 x 6.5	
25 x 25	Purple	1.6	1.12	100 x 6.5	
	Yellow	2.0	1.36	100 x 6.5	
	Pink	2.5	1.64	100 x 6.5	
	Blue	3.0	1.89	100 x 6.5	
30 x 30	Purple	1.6	1.38	100 x 8	
	Yellow	2.0	1.68	100 x 8	
	Pink	2.5	2.03	100 x 8	
	Blue	3.0	2.36	64 x 8	
35 x 35	Purple	1.6	1.63	100 x 8	
	Yellow	2.0	1.99	100 x 8	
	Pink	2.5	2.42	64 x 8	
	Blue	3.0	2.83	64 x 8	
40 x 40	Purple	1.6	1.88	81 x 8	
	Yellow	2.0	2.31	81 x 8	
	Pink	2.5	2.82	64 x 8	
		3.0	3.30	64 x 8	
		4.0	4.09	49 x 8	
	50 x 50	Purple	1.6	2.38	64 x 8
		Yellow	2.0	2.93	64 x 8
		Pink	2.5	3.60	49 x 8
Blue		3.0	4.25	49 x 8	
Green		4.0	5.35	36 x 8	
Orange		5.0	6.39	30 x 8	
	White	6.0	7.32	25 x 8	
65 x 65	Purple	1.6	3.13	49 x 8	
	Yellow	2.0	3.88	42 x 8	
	Pink	2.5	4.78	42 x 8	
	Blue	3.0	5.66	36 x 8	
	Green	4.0	7.23	30 x 8	
	Orange	5.0	8.75	25 x 8	
	White	6.0	10.1	20 x 8	
75 x 75	Yellow	2.0	4.50	20 x 8	
	Pink	2.5	5.56	30 x 8	
	Blue	3.0	6.60	30 x 8	
	Grey	3.5	7.53	25 x 8	
	Green	4.0	8.49	25 x 8	
	Orange	5.0	10.3	20 x 8	
	White	6.0	12.0	16 x 8	
89 x 89	Yellow	2.0	5.38	20 x 8	
	Grey	3.5	9.07	20 x 8	
	Orange	5.0	12.5	16 x 8	
	White	6.0	14.7	12 x 8	

Square RHS				
Dimension d x b mm x mm	End Colour Codes	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m
100 x 100	Pink	2.5	7.53	20 x 8
	Blue	3.0	8.96	20x8 & 16x12
	Green	4.0	11.6	16x8 & 12x12
	Orange	5.0	14.2	12x8 & 9x12
	White	6.0	16.7	12x8 & 9x12
	Red	8.0	21.4	9x8 & 6x12
	Purple	9.0	23.5	9x8 & 6x12
	Yellow	10.0	25.6	6 x 12
	125 x 125	Green	4.0	14.8
Orange		5.0	18.2	12x8 & 9x12
White		6.0	21.4	9x8 & 6x12
Red		8.0	27.7	6x8 & 4x12
Purple		9.0	30.6	8x8 & 4x12
Yellow		10.0	33.4	4 x 12
150 x 150	Orange	5.0	22.1	9x8 & 6x12
	White	6.0	26.2	6x8 & 6x12
	Red	8.0	33.9	6x8 & 4x12
	Purple	9.0	37.7	6x8 & 4x12
	Yellow	10.0	41.3	2 x 12
200 x 200	Orange	5.0	29.9	6x8 & 4x12
	White	6.0	35.6	4x8 & 4x12
	Red	8.0	46.5	4x8 & 2x12
	Purple	9.0	51.8	4x8 & 2x12
	Yellow	10.0	57.0	2 x 12
	Blue	12.5	69.4	2 x 12
	Grey	16.0	85.5	1 x 12
250 x 250	White	6.0	45.0	4x8 & 2x12
	Red	8.0	59.1	4x8 & 2x12
	Purple	9.0	65.9	2x8 & 2x12
	Yellow	10.0	72.7	2 x 12
	Blue	12.5	89.0	1 x 12
	Grey	16.0	111.0	1 x 12
300 x 300	Red	8.0	71.6	1 x 12
	Yellow	10.0	88.4	1 x 12
	Blue	12.5	109.0	1 x 12
	Grey	16.0	136.0	1 x 12
350 x 350	Red	8.0	84.2	1 x 12
	Yellow	10.0	104.0	1 x 12
	Blue	12.5	128.0	1 x 12
	Grey	16.0	161.0	1 x 12
400 x 400	Yellow	10.0	120.0	1 x 12
	Blue	12.5	148.0	1 x 12
	Grey	16.0	186.0	1 x 12



**no flies...**



# RHS Mass & Bundling Data

Shaded areas indicate galvanized sections

Rectangular RHS				
Dimension d x b mm x mm	End Colour Codes	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m
50 x 20	Purple	1.6	1.63	96 x 8
	Yellow	2.0	1.99	96 x 8
	Pink	2.5	2.420	72 x 8
	Blue	3.0	2.83	72 x 8
50 x 25	Purple	1.6	1.75	96 x 8
	Yellow	2.0	2.15	96 x 8
	Pink	2.5	2.62	72 x 8
	Blue	3.0	3.07	60 x 8
65 x 35	Yellow	2.0	2.93	54 x 8
	Pink	2.5	3.60	54 x 8
	Blue	3.0	4.25	45 x 8
	Green	4.0	5.35	35 x 8
75 x 25	Purple	1.6	2.38	65 x 8
	Yellow	2.0	2.93	65 x 8
	Pink	2.5	3.60	48 x 8
75 x 50	Purple	1.6	3.01	54 x 8
	Yellow	2.0	3.72	42 x 8
	Pink	2.5	4.58	42 x 8
	Blue	3.0	5.42	35 x 8
	Green	4.0	6.92	28 x 8
	Orange	5.0	8.35	24 x 8
	White	6.0	9.67	20 x 8
76 x 38	Pink	2.5	4.16	45 x 8
	Blue	3.0	4.90	40 x 8
	Green	4.0	6.23	32 x 8
100 x 50	Yellow	2.0	4.50	32 x 8
	Pink	2.5	5.56	32 x 8
	Blue	3.0	6.60	32 x 8
	Grey	3.5	7.53	24 x 8
	Green	4.0	8.49	24 x 8
	Orange	5.0	10.3	18 x 8
		White	6.0	12.0
	Grey	3.5	9.07	20 x 8
102 x 76	Orange	5.0	12.5	16 x 8
	White	6.0	14.7	12 x 8
125 x 75	Pink	2.5	7.53	24 x 8
	Blue	3.0	8.96	20 x 8
	Green	4.0	11.6	15 x 8
	Orange	5.0	14.2	15 x 8
		White	6.0	16.7
127 x 51	Grey	3.5	9.07	21 x 8
	Orange	5.0	12.5	18 x 8
	White	6.0	14.7	14 x 8

Rectangular RHS				
Dimension d x b mm x mm	End Colour Codes	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m
150 x 50	Blue	3.0	8.96	21 x 8
	Green	4.0	11.6	15 x 8
	Orange	5.0	14.2	15x8 & 10x12
150 x 100	Green	4.0	14.8	12x8 & 9x12
	Orange	5.0	18.2	12x8 & 8x12
	White	6.0	21.4	9x8 & 6x12
	Red	8.0	27.7	6x8 & 4x12
	Purple	9.0	30.6	6x8 & 4x12
	Yellow	10.0	33.4	4 x 12
152 x 76	Orange	5.0	16.4	12x8 & 12x12
	White	6.0	19.4	9x8 & 9x12
200 x 100	Green	4.0	17.9	8x8 & 6x12
	Orange	5.0	22.1	8x8 & 6x12
	White	6.0	26.2	8x8 & 4x12
	Red	8.0	33.9	6x8 & 4x12
	Purple	9.0	37.7	6x8 & 4x12
	Yellow	10.0	41.3	2 x 12
250 x 150	Orange	5.0	29.9	6x8 & 4x12
	White	6.0	35.6	4x8 & 4x12
	Red	8.0	46.5	4x8 & 2x12
	Purple	9.0	51.8	4x8 & 2x12
	Yellow	10.0	57.0	2 x 12
	Blue	12.5	69.4	2 x 12
	Grey	16.0	85.5	1 x 12
300 x 200	White	6.0	45.0	2 x 12
	Red	8.0	59.1	2 x 12
	Yellow	10.0	72.7	1 x 12
	Blue	12.5	89.0	1 x 12
	Grey	16.0	111.0	1 x 12
350 x 250	White	6.0	54.4	2 x 12
	Red	8.0	71.6	2 x 12
	Yellow	10.0	88.4	1 x 12
	Blue	12.5	109.0	1 x 12
	Grey	16.0	136.0	1 x 12
400 x 200	Red	8.0	71.6	2 x 12
	Yellow	10.0	88.4	1 x 12
	Blue	12.5	109.0	1 x 12
	Grey	16.0	136.0	1 x 12
400 x 300	Red	8.0	84.2	1 x 12
	Yellow	10.0	104.0	1 x 12
	Blue	12.5	128.0	1 x 12
	Grey	16.0	161.0	1 x 12



Notes



# Cattle Rails - Mass & Bundling Data



Rail			
Dimension d x b mm x mm	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m
120 x 48	2.0	4.53	18 x 6

StockRail			
Dimension d x b mm x mm	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m
97 x 40	1.6 #	2.95	21 x 6.1
115 x 42	2.0 #	4.29	21 x 6.1
	2.5 #	5.3	21 x 6.1

# Denotes those sections that are only available in Galv.

## StockRail



## UniRail



StockRail			
Dimension d x b mm x mm	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m
53 x 35	1.6 #	1.84	48 x 6.1

UniRail			
Dimension d x b mm x mm	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m
60 x 48	2.0 #	2.65	36 x 6.1
Ptd only	2.5	3.04	36 x 6.1

# Denotes those sections that are only available in Galv.

## RHS Colour Codes

As per AS/NZS 4496.1997 Recommended practise for colour coding of steel products.

Structural RHS Colour Codes			
Size & Colour mm	Size & Colour mm	Size & Colour mm	Size & Colour mm
1.6 Purple	3.0 Blue	6.0 Cream	12.5 Blue
1.8 Brown	3.5 Grey	8.0 Red	16.0 Grey
2.0 Yellow	4.0 Green	9.0 Purple	
2.5 Pink	5.0 Orange	10.0 Yellow	

## AVOIDING WHITE RUST ON ZINC COATED PRODUCTS

When Gal products are being handled, care must be taken to protect the coating. If the coating does become damaged, the area should be cleaned and recoated with a zinc rich paint. Such as Molytec.

The product should be stored in a dry place. This is essential if the product is to be stored in packs.

If rust is observed on the product then it should be removed and a zinc rich paint should be reapplied. White rust can be removed with a high pressure water cleaner, scrubbing brush or soft scouring pad. Kerosene is also a good agent for the removal of white rust. However, red rust must be removed with a wire brush or sandpaper before applying a zinc rich paint to the damaged area.

### Warning for Powder Coaters

Bubbling of the coating may occur when trying to powder coat galvanized sections that have had heavy white rust removed. This can occur at any spot where there is surface roughness after the white rust has been removed.

To overcome this problem, first wipe with a weak phosphoric acid solution then rinse with clean water and dry before coating.

Notes \_\_\_\_\_

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# Telescoping RHS Sections

Square Sections						
Female (Outer)			Clearance		Male (Outer)	
d	b	t	Top	Side	d	b
mm	mm	mm	mm	mm	mm	mm
20	20	1.6	1.8	1.8	15	15
25	25	1.6	1.8	1.8	20	20
25	25	2.0	1.0	1.0	20	20
30	30	1.6	1.8	1.8	25	25
30	30	2.0	1.0	1.0	25	25
35	35	1.6	1.8	1.8	30	30
35	35	2.0	1.0	1.0	30	30
40	40	1.6	1.8	1.8	35	35
40	40	2.0	1.0	1.0	35	35
50	50	1.6	6.8	6.8	40	40
50	50	2.0	6.0	6.0	40	40
50	50	2.5	5.0	5.0	40	40
50	50	3.0	4.0	4.0	40	40
50	50	4.0	2.0	2.0	40	40
65	65	1.6	11.8	11.8	50	50
65	65	2.0	11.0	11.0	50	50
65	65	2.5	10.0	10.0	50	50
65	65	3.0	9.0	9.0	50	50
65	65	4.0	7.0	7.0	50	50
65	65	5.0	5.0	5.0	50	50
65	65	6.0	3.0	3.0	50	50
75	75	2.0	6.0	6.0	65	65
75	75	2.5	5.0	5.0	65	65
75	75	3.0	4.0	4.0	65	65
75	75	3.5	3.0	3.0	65	65
75	75	4.0	2.0	2.0	65	65
89	89	3.5	6.9	6.9	75	75
89	89	5.0	3.9	3.9	75	75
89	89	6.0	1.9	1.9	75	75
100	100	3.0	4.0	4.0	89	89
100	100	4.0	2.0	2.0	89	89
125	125	4.0	17.0	17.0	100	100
150	150	5.0	15.0	15.0	125	125
150	150	6.0	13.0	13.0	125	125
200	200	5.0	40.0	40.0	150	150
200	200	6.0	38.0	38.0	150	150
250	250	6.0	38.0	38.0	200	200

Rectangular Sections						
Female (Outer)			Clearance		Male (Outer)	
d	b	t	Top	Side	d	b
mm	mm	mm	mm	mm	mm	mm
65	35	2.0	11.0	6.0	50	25
65	35	2.5	10.0	5.0	50	25
65	35	3.0	9.0	4.0	50	25
65	35	4.0	7.0	2.0	50	25
75	50	2.0	6.0	11.0	65	35
75	50	2.5	5.0	10.0	65	35
75	50	3.0	4.0	9.0	65	35
75	50	4.0	2.0	7.0	65	35
100	50	2.0	21.0	21.0	75	25
100	50	2.5	20.0	20.0	75	25
100	50	3.0	19.0	19.0	75	25
100	50	3.5	18.0	18.0	75	25
100	50	4.0	17.0	17.0	75	25
100	50	2.0	31.0	11.0	65	35
100	50	2.5	30.0	10.0	65	35
100	50	3.0	29.0	9.0	65	35
100	50	3.5	28.0	8.0	65	35
100	50	4.0	27.0	7.0	65	35
100	50	5.0	25.0	5.0	65	35
100	50	6.0	23.0	3.0	65	35
125	75	3.0	19.0	19.0	100	50
125	75	4.0	17.0	17.0	100	50
125	75	5.0	15.0	15.0	100	50
125	75	6.0	13.0	13.0	100	50
150	100	4.0	17.0	17.0	125	75
150	100	5.0	15.0	15.0	125	75
150	100	6.0	13.0	13.0	125	75
200	100	4.0	42.0	42.0	150	50
200	100	5.0	40.0	40.0	150	50
200	100	6.0	38.0	38.0	150	50
250	150	5.0	40.0	40.0	200	100
250	150	6.0	38.0	38.0	200	100

Please note, RHS is not a precision tube.

While in accordance with specifications; dimensions may vary marginally, particularly corner radii.

To use this chart, first take the outer RHS size you require, take  $2 \times t + 1$  mm away from this size. From the chart, select an inner size RHS that comes close to your requirements, allowing the desired clearance.

Remember that all RHS made under the ERW method of production will have an internal weld bead of approximately 1.0 mm in height. Not all available sizes of RHS could be listed due to page size limitations.

Another factor to take into consideration is the corner radii as these may differ for each tube manufacturer to the next.



## Notes

# Mass & Bundling Data



Angles		Nominal thickness - mm, mass/kg and Packing Details				
Size	2.5	4.0	5.0	6.0	8.0	
30 x 30	1.06 (90x6.0m)	-	-	-	-	
40 x 40	1.43 (60x6.0m)	2.20 (39x6.0m)	-	-	-	
45 x 45	1.62 (54x6.0m)	2.50 (36x6.0m)	-	-	-	
50 x 50	1.81 (33x6m & 9m)	2.79 (27x6m & 9m)	3.42 (24x9m)	4.21 (21x6m)	-	
65 x 65	-	3.69 (22x9m)	4.52 (22x9m)	5.62 (18x9m)	-	
75 x 75		4.29 (22x9m)	5.26 (22x9m)	6.56 (18x9m)	8.59 (18x9m)	
90 x 90		-	6.37 (22x9m)	-	10.50 (18x9m)	
100 x 100		-	-	8.92 (16x12m)	11.70 (14x12m)	
125 x 125		-	7.27 (20x12m)	8.95 (18x12m)	-	14.90 (12x12m)
150 x 150	-	-	10.80 (18x12m)	-	18.00 (12x12m)	

Channels		Nominal thickness - mm, mass/kg and Packing Details				
Size		4.0	5.0	6.0	8.0	
75 x 40		4.25 (18x9m)	-	-	-	
100 x 50		5.59 (18x9m)	-	-	-	
125 x 65		7.23 (18x9m)	-	-	-	
150 x 75		-	10.50 (12x12m)	-	-	
180 x 75		-	11.60 (12x12m)	-	-	
200 x 75		-	12.40 (12x12m)	15.50 (12x12m)	-	
230 x 75		-	-	16.90 (12x12m)	-	
250 x 90		-	-	19.20 (8x12m)	-	
300 x 90		-	-	21.60 (6x12m)	28.50 (6x12m)	

Flats		Nominal thickness - mm, mass/kg and Packing Details				
Size		4.0	5.0	6.0	8.0	
50		1.49 (57x6m)	1.84 (45x6m)	-	-	
65		1.94 (44x6m)	2.40 (36x6m)	-	-	
75		2.24 (38x6m)	2.77 (32x6m)	-	-	
100		2.98 (28x6m)	3.69 (28x6m)	4.71 (26x6m)	6.28 (22x6m)	
130		-	4.80 (28x6m)	-	-	
150		-	5.53 (28x6m)	7.07 (24x6m)	9.42 (22x6m)	
200		-	-	7.38 (32x6m)	9.42 (28x6m)	12.60 (22x6m)
250	-	-	9.22 (23x6m)	-	15.70 (16x6m)	
300	-	-	11.10 (19x6m)	-	18.80 (12x6m)	

Items in shaded area require a minimum order quantity of 5 Packs.

Notes

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**no flies...**

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# Cold Formed Plain Channels

## Cold Formed Plain Channels - Black or Zincform

Designation	Dimensions mmxmmxmm	Black+Mass		Galv+Mass		Designation	Dimensions mmxmmxmm	Black+Mass		Galv+Mass	
		Yes/No	& kg/m	Yes/No	& kg/m			Yes/No	& kg/m	Yes/No	& kg/m
LC/TC01916	19x12x1.6	Yes	- 0.474	Yes	- 0.490	TC06815	65IDx30x1.5 * #	No		Yes	- 1.500
LC/TC02516	25x13x1.6	Yes	- 0.574	Yes	- 0.587	TC07620	76x35x2.0 *	No		Yes	- 2.244
TC03420-50	35x50x2.0 *	No		Yes	- 2.105	LC/TC07630	76x38x3.0	Yes	- 3.280	Yes	- 3.340
TC03420-70	34x70x2.0 *	No		Yes	- 2.777	TC07815	75IDx30x1.5 * #	No		Yes	- 1.619
TC03725	37x60x2.5 *	No		Yes	- 3.093	LC/TC08330	83x34x3.0	Yes	- 3.310	Yes	- 3.350
LC/TC03816	38x16x1.6	Yes	- 0.813	Yes	- 0.840	LC/TC08930	89x31x3.0	Yes	- 3.310	Yes	- 3.350
TC04516	45x50x1.6 *	No		Yes	- 1.887	TC09010	90x20x1.0 *	No		Yes	- 1.063
TC05016	50x40x1.6 *	No		Yes	- 1.675	TC09120	91x27x2.0 *	Yes	- 2.198	No	
LC/TC05116	51x15x1.6	Yes	- 0.951	Yes	- 0.972	TC09520	95x25x2.0 *	Yes	- 2.198	No	
TC05120	51x25x2.0	Yes	- 1.613	Yes	- 1.613	LC/TC09530	95x37x3.0	Yes	- 3.640	Yes	- 3.700
LC/TC05130	51x25x3.0	Yes	- 2.130	Yes	- 2.160	LC/TC10230	102x55x3.0	Yes	- 4.740	Yes	- 4.800
TC05420	54x30x2.0 *	Yes		No		TC10230-34	102x34x3.0	YES	- 3.744	No	
TC05516	55x50x1.6 *	No		Yes	- 1.960	LC/TC10330	103x31x3.0	Yes	- 3.640	Yes	- 3.700
TC05716	54IDx25x1.6 *	Yes		No		TC10520	105x22x2.0 *	Yes	- 2.230	No	
TC05720	57x45x2.0 *	Yes	- 2.198	Yes	- 2.238	LC/TC12730	127x49x3.0	Yes	- 5.050	Yes	- 5.110
LC/TC05725	57x26x2.5	Yes	- 1.980	Yes	- 2.010	TC15010	150x50x1.0 *	No		Yes	- 2.045
LC/TC06425	64x23x2.5	Yes	- 1.960	Yes	- 2.000	LC/TC15230	152x50x3.0	Yes	- 5.690	Yes	- 5.750
TC06724	67x50x2.4 * #	No		Yes	- 3.225	TC15230-76	152x76x3.0	Yes	- 5.860	No	
						TC30030	300x80x3.0 *	Yes		No	

# Indicates G450 material.



# Cold Formed Lipped Channels

## Cold Formed Lipped Channels - Black or Zincform

Designation	Dimensions mmxmmxmm	Black+Mass		Galv+Mass		Designation	Dimensions mmxmmxmm	Black+Mass		Galv+Mass	
		Yes/No	& kg/m	Yes/No	& kg/m			Yes/No	& kg/m	Yes/No	& kg/m
LL/TL05116	51x35x9x1.6	Yes	- 1.610	Yes	- 1.680	TL10012Z	100x75x13x1.2 *	No		Yes	- 2.633
TL06420	64x38x10x2.0	Yes	- 2.310	Yes	- 2.350	LL/TL10225	102x51x14x2.5	Yes	- 4.230	Yes	- 4.390
TL06425	64x38x10x2.5	Yes	- 2.820	Yes	- 2.910	LL/TL10230	102x51x16x3.0	Yes	- 5.060	Yes	- 5.250
TL07512	75x44x11x1.2	No		Yes	- 1.707	LL/TL12725	127x51x14x2.5	Yes	- 4.670	Yes	- 4.740
TL07512Z	75x44x11x1.2	No		Yes	- 1.707	LL/TL12730	127x51x16x3.0	Yes	- 5.560	Yes	- 5.850
TL07620	76x44x11x2.0	Yes	- 2.710	Yes	- 2.760	LL/TL15230	152x64x16x3.0	Yes	- 6.850	Yes	- 6.930
LL/TL07625	76x44x11x2.5	Yes	- 3.330	Yes	- 3.370	TL15230HD	152x64x16x3.0	No		Yes	- 7.195
TL07675Z	76x38x13x.75	No		Yes		TL17830	178x70x17x3.0	Yes	- 7.790	Yes	- 7.880
TL08920	89x51x12x2.0	Yes	- 3.170	Yes	- 3.220	TL20325	203x70x15x2.5	Yes	- 7.000	Yes	- 7.100
TL08930	89x51x15x3.0	Yes	- 4.710	Yes	- 4.760	LL/TL20330	203x76x18x3.0	Yes	- 8.710	Yes	- 9.070
TL09510Z	95x60x17x1.0 *	No		Yes	- 2.045	LL/TL25430	254x89x23x3.0	Yes	- 10.780	Yes	- 11.200



# Cold Formed Angles

## Cold Formed Angles - Black or Zincform

Designation	Dimensions mmxmmxmm	Black+Mass		Galv+Mass		Designation	Dimensions mmxmmxmm	Black+Mass		Galv+Mass	
		Yes/No	& kg/m	Yes/No	& kg/m			Yes/No	& kg/m	Yes/No	& kg/m
TA2512	25x25x1.2 *	No		Yes	- 0.466	TA5019	50x50x1.9	No		Yes	- 1.514
LA/TA2725	27x27x2.5	Yes	- 0.979	Yes	- 1.000	LA/TA5130	51x30x3.0	Yes	- 1.780	Yes	- 1.790
LA/TA3225	32x22x2.5	Yes	- 0.979	Yes	- 1.000	TA5130-25	51x25x3.0 *	Yes	- 1.625	No	
TA3520	35x35x2.0 *	Yes	- 1.050	No		TA6430	64x64x3.0 *	No		Yes	- 2.985
TA3825	38x38x2.5 *	No		Yes	- 1.434	TA7512	75x75x1.2	No		Yes	- 1.44
TA4030	40x40x3.0	Yes	- 1.760	Yes	- 1.790	TA7516	75x75x1.6	No		Yes	- 1.934
LA/TA4630	46x35x3.0	Yes	- 1.780	Yes	- 1.790	TA7630	76x51x3.0 *	No		Yes	- 3.320
TA5016	50x50x1.6	No		Yes	- 1.250	TA8025	80x70x2.5 *	No		Yes	- 2.993
						TA8525	85x50x2.5 *	No		Yes	- 2.694

\* Indicates minimum order requirements.

LC-LL-LA Indicates BlueScope Lysaght Products.

TC-LT-TA Indicates Textor Metal Industries P/L Products.

Notes



# Flat Mild Steel



Square Edged Flats		
Size mm x mm	Mass kg/m	Metres/tonne m/t
10 x 3	0.241	4149.4
13 x 3	0.313	3194.9
x 5	0.468	2136.8
x 6	0.6276	1593.4
These are referred to as Small Flats and may have rounded edges.		
16 x 3	0.386	2590.7
x 5	0.643	1555.2
x 8	1.030	970.9
20 x 3	0.483	2070.4
x 5	0.805	1242.2
x 6	0.966	1035.2
x 10	1.609	621.5
25 x 3	0.604	1655.6
x 5	1.006	994.0
x 6	1.207	828.5
x 8	1.609	621.5
x 10	2.012	497.0
x 12	2.414	414.3
32 x 3	0.772	1295.3
x 5	1.287	777.0
x 6	1.545	647.2
x 8	2.060	485.4
x 10	2.575	388.3
x 12	3.090	323.6
40 x 3	0.966	1035.2
x 5	1.609	621.5
x 6	1.931	517.9
x 8	2.575	388.3
x 10	3.219	310.7
x 12	3.862	258.9
x 16	5.150	194.2
x 20	6.437	155.4
50 x 3	1.207	828.5
x 5	2.012	497.0
x 6	2.414	414.3
x 8	3.219	310.7
x 10	4.023	248.6
x 12	4.828	207.1
x 16	6.437	155.4
x 20	8.046	124.3
x 25	10.058	99.4

Square Edged Flats		
Size mm x mm	Mass kg/m	Metres/tonne m/t
65 x 5	2.615	382.4
x 6	3.138	318.7
x 8	4.184	239.0
x 10	5.230	191.2
x 12	6.276	159.3
x 16	8.368	119.5
x 20	10.460	95.6
75 x 5	3.017	331.5
x 6	3.621	276.2
x 8	4.828	207.1
x 10	6.035	165.7
x 12	7.242	138.1
x 16	9.656	103.6
x 20	12.069	82.9
x 25	15.087	66.3
x 40	24.139	41.4
90 x 6	4.345	230.1
x 8	5.793	172.6
x 10	7.242	138.1
x 12	8.690	115.1
100 x 5	4.023	248.6
x 6	4.828	207.1
x 8	6.437	155.4
x 10	8.046	124.3
x 12	9.656	103.6
x 16	12.874	77.7
x 20	16.093	62.1
x 25	20.116	49.7
x 50	40.231	24.9
110 x 6	5.180	193.1
x 8	7.081	141.2
x 10	8.851	113.0
x 12	10.621	94.2
130 x 5	5.230	191.2
x 6	6.276	159.3
x 8	8.368	119.5
x 10	10.460	95.6
x 12	12.552	79.7
x 16	16.736	59.8
x 20	20.920	47.8
x 25	26.150	38.2

Notes \_\_\_\_\_



**no flies...**

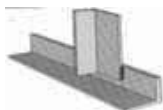
**12**



## Flat Mild Steel

Square Edge Flats		
Size mm x mm	Mass kg/m	Metres/tonne m/t
150 x 5	6.035	165.7
x 6	7.242	138.1
x 8	9.656	103.6
x 10	12.069	82.9
x 12	14.483	69.0
x 16	19.311	51.8
x 20	24.139	41.4
x 25	30.173	33.1
x 50	60.346	16.6
180 x 6	8.690	115.1
x 10	14.483	69.0
x 12	17.380	57.5
x 16	23.173	43.2
x 20	28.967	34.5
x 25	36.208	27.6
200 x 6	9.656	103.6
x 8	12.874	77.7
x 10	16.093	62.1

Square Edge Flats		
Size mm x mm	Mass kg/m	Metres/tonne m/t
200 x 12	19.311	51.8
x 16	25.748	38.8
x 20	32.185	31.1
x 25	40.231	24.9
250 x 6	12.069	82.9
x 8	16.093	62.1
x 10	20.116	49.7
x 12	24.139	41.4
x 16	32.185	31.1
x 20	40.231	24.9
x 25	50.289	19.9
300 x 6	14.483	69.0
x 8	19.311	51.8
x 10	24.139	41.4
x 12	28.967	34.5
x 16	38.622	25.9
x 20	48.278	20.7
x 25	60.347	16.6



## Unequal Angles

Unequal Angles		
Size mm x mm x mm	Mass kg/m	Metres/tonne m/t
Merchant Angles		
65 x 50 x 5	4.02	248.8
x 50 x 6	5.16	193.8
x 50 x 8	6.59	151.7
75 x 50 x 5	4.40	227.3
x 50 x 6	5.66	176.7
x 50 x 8	7.23	138.3
100 x 75 x 6	7.98	125.3
x 75 x 8	10.30	97.1
x 75 x 10	12.40	80.6

Unequal Angles		
Size mm x mm x mm	Mass kg/m	Metres/tonne m/t
125 x 75 x 6	9.16	109.2
x 75 x 8	11.80	84.7
x 75 x 10	14.20	70.4
x 75 x 12	17.70	56.5
Structural Angles		
150 x 90 x 8	14.30	69.9
x 90 x 10	17.30	57.8
x 90 x 12	21.60	46.3
x 90 x 16	27.90	35.8
150 x 100 x 10	18.00	55.6
x 100 x 12	22.50	44.4



Notes \_\_\_\_\_

# Equal Angles



Equal Angles		
Size mm x mm x mm	Mass kg/m	Metres/tonne m/t
20 x 20 x 3	0.87	1149.4
Merchant Angles		
25 x 25 x 3	1.12	892.9
x 25 x 5	1.65	606.1
x 25 x 6	2.08	480.8
30 x 30 x 3	1.35	740.7
x 30 x 5	2.01	497.5
x 30 x 6	2.56	390.6
40 x 40 x 3	1.83	546.4
x 40 x 5	2.73	366.3
x 40 x 6	3.50	285.7
45 x 45 x 3	2.06	485.4
x 45 x 5	3.10	322.6
x 45 x 6	3.97	251.9
50 x 50 x 3	2.31	432.9
x 50 x 5	3.48	287.4
x 50 x 6	4.46	224.2
x 50 x 8	5.68	176.1
55 x 55 x 5	3.84	260.4
x 55 x 6	4.93	202.8
65 x 65 x 5	4.56	219.3
x 65 x 6	5.87	170.4
x 65 x 8	7.51	133.2
x 65 x 10	9.02	110.9

Equal Angles		
Size mm x mm x mm	Mass kg/m	Metres/tonne m/t
75 x 75 x 5	5.27	189.8
x 75 x 6	6.81	146.8
x 75 x 8	8.73	114.5
x 75 x 10	10.50	95.2
90 x 90 x 6	8.22	121.7
x 90 x 8	10.60	94.3
x 90 x 10	12.70	78.7
100 x 100 x 6	9.16	109.2
x 100 x 8	11.80	84.7
x 100 x 10	14.20	70.4
x 100 x 12	17.70	56.5
Structural Angles		
125 x 125 x 8	14.90	67.1
x 125 x 10	18.00	55.6
x 125 x 12	22.50	44.4
x 125 x 16	29.10	34.4
150 x 150 x 10	21.90	45.7
x 150 x 12	27.30	36.6
x 150 x 16	35.40	28.2
x 150 x 19	42.10	23.8
200 x 200 x 13	40.00	25.0
x 200 x 16	48.70	20.5
x 200 x 20	60.10	16.6
x 200 x 26	76.80	13.0

Notes \_\_\_\_\_

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# Square Mild Steel



Square Mild Steel		
Size mm	Mass kg/m	Metres/tonne m/t
10	0.805	1242.2
12	1.159	862.8
16	2.060	485.4
19	2.905	344.2
20	3.219	310.7
25	5.029	198.8
40	12.874	77.7

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**no flies...**

# Round Mild Steel & Large Rounds

Round Mild Steel		
Diameter mm	Mass kg/m	Metres/tonne m/t
6	0.233	4291.8
8	0.394	2538.1
10	0.632	1582.3
12	0.910	1098.9
14	1.239	807.1
16	1.618	618.0
18	2.047	488.5
20	2.528	395.6
22	3.059	326.9
24	3.640	274.7
27	4.607	217.1
30	5.687	175.8
33	6.882	145.3
36	8.190	122.1
39	9.611	104.0
42	11.147	89.7
45	12.796	78.1
48	14.559	68.7
50	15.798	63.3
56	19.817	50.5
60	22.749	44.0
65	26.698	37.5
75	35.545	28.1
80	40.442	24.7
90	51.185	19.5

Large Rounds		
Diameter mm	Mass kg/m	Metres/tonne m/t
100	63.191	15.825
110	76.4614	13.078
120	90.9954	10.990
130	106.7932	9.364
140	123.8549	8.074
150	142.1803	7.033
160	161.7696	6.182
170	182.6227	5.476
180	204.7397	4.884
190	228.1204	4.384
200	251.5567	3.975
210	277.0798	3.609
220	303.8359	3.291
230	331.8250	3.014
240	361.0471	2.770
250	391.5022	2.554
260	423.1903	2.363
280	490.2655	2.040
300	566.0025	1.767
310	603.9789	1.656
320	643.1883	1.555
340	725.3061	1.379
360	812.3559	1.231
380	904.3377	1.106
400	1006.2270	0.994

Large rounds may not always be a stocked item.

Typically supplied in 6.000 metre lengths.

## Notes

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# Taper Flanged Beams



## Taper Flanged Beams

Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne
100 x 45	7.2	100	45	6.0	4.0	7.0	138.89
125 x 65	13.1	125	65	8.5	5.0	8.0	76.34

Length range is 9.0m and 12.0m.

# Taper Flanged Channel



## Taper Flanged Channel

Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne
* 50 x 25	4.46	50	25	5.0	4.0	6.0	224.22

\* Denotes imported section.

# (Merchant) Parallel Flanged Channel



## Merchant Parallel Flange Channels

Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne
75 x 40	5.92	75	40	6.1	3.8	8.0	168.92
100 x 50	8.33	100	50	6.7	4.2	8.0	120.05
125 x 65	11.9	125	65	7.5	4.7	8.0	84.03

Length range is 7.5m, 9.0m and 12.0m.

# (Light) Parallel Flanged Channel



## Light Structural Parallel Flange Channels

Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne
150 x 75	17.7	150	75	9.5	6.0	10.0	56.50
180 x 75	20.9	180	75	11.0	6.0	12.0	47.85
200 x 75	22.9	200	75	12.0	6.0	12.0	43.67
230 x 75	25.1	230	75	12.0	6.5	12.0	39.84
250 x 90	35.5	250	90	15.0	8.0	12.0	28.17

Length range is 9.0m, 10.5m, 12.0m, 13.5m, 15.0m, 16.5m and 18.0m

# (Heavy) Parallel Flanged Channel



## Heavy Structural Parallel Flange Channels

Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne
300 x 90	40.1	300	90	16.0	8.0	14.0	24.94
380 x 100	55.2	380	100	17.5	10.0	14.0	18.12

Length range is 9.0m, 10.5m, 12.0m, 13.5m, 15.0m, 16.5m and 18.0m

Some length range not stocked at all locations.

Notes \_\_\_\_\_



**no flies...**

# Universal Beams

Universal Beams							
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne
150 UB	14.0	150.0	75	7.0	5.0	8.0	71.43
Light	18.0	155.0	75	9.5	6.0	8.0	55.56
180 UB	16.1	173	90	7.0	4.5	8.9	62.11
Light	18.1	175.0	90	8.0	5.0	8.9	55.25
	22.2	179.0	90	10.0	6.0	8.9	45.05
200 UB	18.2	198.0	99	7.0	4.5	11.0	54.95
Light	22.3	202.0	133	7.0	5.0	8.9	44.84
	25.4	203.0	133	7.8	5.8	8.9	39.37
	29.8	207.0	134	9.6	6.3	8.9	33.56
250 UB	25.7	248.0	124	8.0	5.0	12.0	38.91
Light	31.4	252.0	146	8.6	6.1	8.9	31.85
	37.3	256.0	146	10.9	6.4	8.9	26.81
310 UB	32.0	298.0	149	8.0	5.5	13.0	31.25
Light	40.4	304.0	165	10.2	6.1	11.4	24.75
	46.2	307.0	166	11.8	6.7	11.4	21.65
360 UB	44.7	352.0	171	9.7	6.9	11.4	22.37
Light	50.7	356.0	171	11.5	7.3	11.4	19.72
	56.7	359.0	172	13.0	8.0	11.4	17.64
410 UB	53.7	403.0	178	10.9	7.6	11.4	18.62
Light	59.7	406.0	178	12.8	7.8	11.4	16.75
460 UB	67.1	454.0	190	12.7	8.5	11.4	14.90
Heavy	74.6	457.0	190	14.5	9.1	11.4	13.40
	82.1	460.0	191	16.0	9.9	11.4	12.18
530 UB	82.0	528.0	209	13.2	9.6	14.0	12.20
Heavy	92.4	533.0	209	15.6	10.2	14.0	10.82
610 UB	101	602	228	14.8	10.6	14.0	9.90
Heavy	113	607	228	17.3	11.2	14.0	8.85
	125	612	229	19.6	11.9	14.0	8.00

# Universal Columns

Universal Columns							
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne
100 UC	14.8	97	99	7.0	5.0	10.0	67.57
150 UC	23.4	152	152	6.8	6.1	8.9	42.74
Light	30.0	158	153	9.4	6.6	8.9	33.33
	37.2	162	154	11.5	8.1	8.9	26.88
200 UC	46.2	203	203	11.0	7.3	11.4	21.65
Light	52.2	206	204	12.5	8.0	11.4	19.16
	59.5	210	205	14.2	9.3	11.4	16.81
250 UC	72.9	254	254	14.2	8.6	14.0	13.72
Heavy	89.5	260	256	17.3	10.5	14.0	11.17
310 UC	96.8	308	305	15.4	9.9	16.5	10.33
Heavy	118	315	307	18.7	11.9	16.5	8.47
	137	321	309	21.7	13.8	16.5	7.30
	158	327	311	25.0	15.7	16.5	6.33

Notes



# Welded Beams



Welded Beams							
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Depth Between Flanges mm	m/tonne
700	115.0	692	250	16.0	10.0	660.0	8.70
	130.0	700	250	20.0	10.0	660.0	7.69
	150.0	710	250	25.0	10.0	660.0	6.67
	173.0	713	275	28.0	10.0	660.0	5.78
800	122.0	792	250	16.0	10.0	760.0	8.20
	146.0	800	275	20.0	10.0	760.0	6.85
	168.0	810	275	25.0	10.0	760.0	5.95
	192.0	816	300	28.0	10.0	760.0	5.21
900	175.0	900	300	20.0	12.0	860.0	5.71
	218.0	910	350	25.0	12.0	860.0	4.59
	257.0	916	400	28.0	12.0	860.0	3.89
	282.0	924	400	32.0	12.0	860.0	3.55
1000	215.0	1000	300	20.0	16.0	960.0	4.65
	258.0	1010	350	25.0	16.0	960.0	3.88
	296.0	1016	400	28.0	16.0	960.0	3.38
	322.0	1024	400	32.0	16.0	960.0	3.11
1200	249.0	1170	275	25.0	16.0	1120.0	4.02
	278.0	1170	350	25.0	16.0	1120.0	3.60
	317.0	1176	400	28.0	16.0	1120.0	3.15
	342.0	1184	400	32.0	16.0	1120.0	2.92
	392.0	1184	400	32.0	16.0	1120.0	2.55
	423.0	1192	500	36.0	16.0	1120.0	2.36
	455.0	1200	500	40.0	16.0	1120.0	2.20

# Welded Columns

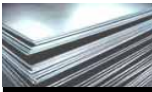


Welded Columns							
Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Depth Between Flanges mm	m/tonne
350	197.0	331	350	28.0	20.0	275.0	5.08
	230.0	339	350	32.0	25.0	275.0	4.35
	258.0	347	350	36.0	28.0	275.0	3.88
	280.0	355	350	40.0	28.0	275.0	3.57
400	144.0	382	400	16.0	16.0	350.0	6.94
	181.0	390	400	20.0	20.0	350.0	5.52
	212.0	400	400	25.0	20.0	350.0	4.72
	270.0	414	400	32.0	25.0	350.0	3.70
	303.0	422	400	36.0	28.0	350.0	3.30
	328.0	430	400	40.0	28.0	350.0	3.05
	361.0	430	400	40.0	40.0	350.0	2.77
500	228.0	490	500	20.0	20.0	450.0	4.39
	267.0	500	500	25.0	20.0	450.0	3.75
	290.0	506	500	28.0	20.0	450.0	3.45
	340.0	514	500	32.0	25.0	450.0	2.94
	383.0	472	500	36.0	32.0	400.0	2.61
	414.0	480	500	40.0	32.0	400.0	2.42
	440.0	480	500	40.0	40.0	400.0	2.27

Notes \_\_\_\_\_



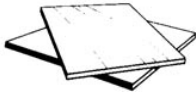
**no flies...**



## Plain Plates

Plain Plate						
Thickness mm	Mass/m <sup>2</sup> kg/m <sup>2</sup>	Kilograms per Linear metre of Plate Width - approximately.				
		1200	1500	1800	2400	3000
3	23.5502	28.26	35.33	42.39	-	-
4	31.40	37.68	47.10	56.52	-	-
5	39.2498	47.10	58.87	70.65	94.20	117.75
6	47.10	56.52	70.65	84.78	113.04	141.30
8	62.80	75.36	94.20	113.04	150.72	188.40
10	78.5005	94.20	117.75	141.30	188.40	235.50
12	94.20	113.04	141.30	169.56	226.08	282.60
16	125.60	150.72	-	226.08	301.44	376.80
20	157.001	188.40	-	282.60	376.80	471.00
25	196.2508	235.50	-	353.25	471.00	588.75
28	219.801	-	-	-	527.52	-
32	251.2001	-	-	452.16	602.88	753.60
36	282.601	-	-	-	678.24	-
40	314.001	-	-	565.20	753.60	-
45	353.2508	-	-	-	847.80	-
50	392.5006	-	-	706.50	942.00	-
55	431.7504	Some plates are shown as		-	1036.20	-
60	471.0011	1200 or 1500mm wide This is		847.80	1130.40	-
70	549.5006	that they can be supplied as		989.10	1318.80	-
80	628.0002	cut from coil or supplied as a		1130.40	1507.20	-
90	706.5007	2400x1200 Plate, particularly		-	1695.60	-
100	785.0002	16, 20 & 25mm plates		1413.00	1884.00	-
110	863.5007	-	-	1554.30	2072.40	-
120	942.0002	Plates above 100mm are		1695.60	2260.80	-
140	1099.00	referred to as Heavy Plates.		1978.20	2637.60	-
150	1177.5010	-	-	2119.50	2826.00	-

Some Plates (8mm to 25mm) can be supplied in 3200mm widths.



## Quenched & Tempered Plates

### Quenched & Tempered Plate - Weight reduction equates to cost savings.

High Strength -BIS80. Thickness range between 5mm and 100mm. (imported alternatives also available).

Yield strength 3 times that of carbon steel. Good weld ability and formability, span greater distances and weight reduction.

Uses include storage tanks, lifting equipment, dump truck trays, buckets and transport equipment.

Wear Resistant - BIS400, BIS500. Thickness range between 5mm and 100mm. (imported alternatives also available).

Features include extreme durability, abrasion and impact resistance and longer life in impact and gouging environments.

Uses include deflector plate, chutes, cutting edges, mining equipment, buckets and dump truck wear liners.

Welding, drilling, bending, rolling, cutting, turning & milling require different procedures when processing Q & T plates.

Notes



# Floor Plate



Coil Floor Plate						
Plate Thickness mm	Mass kg/m <sup>2</sup>	Kilograms per Linear metre of Plate Width				
		1200	1500	1800	2400	3000
2.1	18.535	22.24	-	-	-	-
3.0	25.55	30.66	-	-	-	-
5.0	41.25	49.50	61.9	-	-	-
6.0	49.1005	58.92	73.7	-	-	-
8.0	64.80	-	97.2	-	-	-

\* 2.1 mm Thickness Floorplate is considered 1210mm in width.

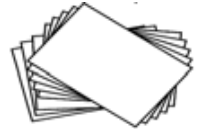
The above sizes of Floor Plate may be cut from large coils, approximately 14 tonnes.

# Floor Plates



Floor Plate						
Plate Thickness mm	Mass kg/m <sup>2</sup>	Kilograms per Linear metre of Plate Width				
		1200	1500	1800	2400	3000
8.0	64.80	-	-	116.64	-	-
10.0	80.5005	-	-	144.90	-	-
12.0	96.20	-	-	173.16	-	-

# Steel Sheets - Coated and Uncoated



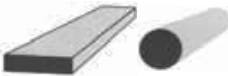
Approximate Sheet count per tonne.						
Thickness - mm		Sheet Size mm x mm	Sheet counts per tonne			
Hot Rolled	Gal/Zinc		Galvabond	Hot Rolled	Zincanneal	Sign White
-	0.40	1800 x 1200	132.76	-	-	-
-	0.40	2400 x 1200	99.57	-	-	-
-	0.55	1800 x 1200	100.48	-	102.38	100.2
-	0.55	2400 x 1200	75.36	-	76.78	75.16
-	0.75	1800 x 1200	74.95	-	75.67	-
-	0.75	2400 x 1200	56.21	-	56.75	-
-	0.95	1800 x 1200	59.76	-	61.01	-
-	0.95	2400 x 1200	44.82	-	45.76	-
-	1.15	1800 x 1200	49.69	-	50.55	-
-	1.15	2400 x 1200	37.27	-	37.91	-
1.60	1.55	1800 x 1200	37.16	36.86	37.65	-
1.60	1.55	2400 x 1200	27.87	27.64	28.23	-
1.60	1.55	3000 x 1200	22.30	22.12	22.59	-
2.00	1.95	1800 x 1200	29.68	29.49	29.99	-
2.00	1.95	2400 x 1200	22.26	22.12	22.49	-
2.00	1.95	3000 x 1200	17.81	17.69	17.99	-
2.50	2.45	1800 x 1200	23.80	23.59	-	-
2.50	2.45	2400 x 1200	17.85	17.69	-	-
2.50	2.45	3000 x 1200	14.28	14.15	-	-
3.00	2.95	1800 x 1200	19.75	19.66	-	-
3.00	2.95	2400 x 1200	14.82	14.74	-	-
3.00	2.95	3000 x 1200	11.85	11.80	-	-

Notes

**no flies...**



**20**



# Aluminium Flats, Angles & Rounds

Aluminium Flat Bar 6060 T5		
Size	Length	Mass/lm
12 x 3	4000	0.396
20 x 3	4000	0.664
25 x 3	4000	0.832
25 x 4	4000	1.112
25 x 6	4000	1.660
25 x 10	4000	2.776
32 x 3	4000	1.068
32 x 6	4000	2.124
32 X 10	4000	3.544
40 x 3	4000	1.328
40 x 4	4000	1.772
40 x 6	4000	2.656
40 x 10	4000	4.428
50 x 3	4000	1.660
50 x 4	4000	2.220
50 x 5	4000	2.768
50 x 6	4000	3.332
50 x 8	4500	5.000
50 x 10	4000	5.556
50 x 12	4000	6.664
60 x 6	4000	3.984
60 x 10	4000	6.640
60 x 12	4000	7.972
76.2 x 6.4	4000	5.380
80 x 3	4000	2.664
80 x 6	4000	5.312
80 x 10	4000	8.888
100 x 3	4000	3.332
100 x 6	4000	6.644
100 x 10	4000	11.072
100 x 12	4000	13.328
160 x 6	4000	10.628
160 x 10	4000	17.772
Aluminium Flat Bar 6061 T6		
Size	Length	Mass/lm
40 x 6	6000	3.984
50 x 6	6000	4.998

Aluminium Angles 6060 T5		
Size	Length	Mass/lm
20x 12x1.6	6500	0.871
20x 20x1.6	6500	1.105
20x 20x3.0	6500	2.002
25x 20x1.6	6500	1.248
25x 25x1.6	6500	1.391
25x 25x3.0	6500	2.5415
25x 25x6.0	6500	4.752
32x 25x3.0	6096	2.725
32x 32x3.0	6500	3.289
40x 25x3.0	6500	3.348
40x 40x1.6	6500	1.801
40x 40x3.0	6500	4.160
40x 40x4.0	6500	5.473
40x 40x6.0	6500	8.385
50x 25x1.6	6500	2.113
50x 25x3.0	6500	3.887
50x 50x3.0	6500	5.239
50x 50x4.0	6500	6.910
50x 50x6.0	6500	10.147
76.2x25.4x3.0	6500	5.642
Aluminium Struct Angles 6061 T6		
Size	Length	Mass/lm
50x 50x6.0	6500	10.205
60x 60x6.0	6500	12.363
80x 50x6.0	6500	13.442
80x 80x6.0	6500	16.686
80x 80x10.0	6500	27.125
100x 50x6.0	6500	15.600
Aluminium Flat Bar 6061 T6		
Size	Length	Mass/lm
80 x 6	6000	8.00
100 x 6	6000	10.00

Aluminium Rounds 6060 T5		
Size	Length	Mass/lm
10.0	6000	1.302
12.0	6000	1.878
16.0	6000	3.342
20.0	6000	5.655
25.4	4000	5.604
33.0	6000	14.202
39.0	4000	13.224
Aluminium Square 6060 T5		
Size	Length	Mass/lm
12.0	4000	1.596
25.0	4000	6.944
40.0	4000	17.712
Aluminium Channels 6060 T5		
Size	Length	Mass/lm
25 x 25x3.0	6500	3.725
32x 25x3.0	6500	4.102
40x 20x3.0	6500	3.913
40x 25x3.0	6500	4.531
50x 25x3.0	6500	5.187
80x 25x3.0	6500	6.689
100x 25x3.0	6500	7.768
Alum Struct Channels 6061 T6		
Size	Length	Mass/lm
80x 40x6x6	6500	16.094
80x 40x6x8	6500	18.701
100x 50x6x9	6500	25.318
152.4x63.5x6.35	6500	34.587
160x 60x6x9	6500	35.035
180x 80x6x11	6500	48.991
200x 90x8x10	5500	48.769
Alum Bull Bar Channels		
Size	Length	Mass/lm
125x 75x6	7000	28.090
125x100x70x6	7000	31.108
148x100x6	6000	30.438
175x100x7	6500	36.030

Grade 6061 A heat treatable, high strength alloy used as extrusions for sea, road and rail transport, mine skips and heavy duty containers.

Grade 6351 A heat treatable alloy used in heavy duty structures where corrosion resistance is needed such as transport applications.

Aluminium is used extensively in transport applications due to the weight savings and high strength capability.

Aluminium is approximately one third the mass of an equivalent steel section.



Notes

# Aluminium Hollows & Tubes



## Square Edge Hollow Sections 6060 T5

### Squares

Size	Length	Mass/ln
12.5x12.5x1.59	6500	1.222
25x25x2.0	6500	3.309
25x25x3.0	6500	4.752
32x32x2.0	6500	4.316
32x32x3.0	6500	6.266
40x40x1.6	6500	4.427
40x40x2.0	6500	5.467
40x40x3.0	6500	7.989
50x50x2.5	6500	8.541
50.8x50.8x3.2	6500	10.894
63.5x63.5x3.2	6500	13.689

## Radius Edge Hollow Sections 6060 T5

### Squares

Size	Length	Mass/ln
19x19x1.6	6500	1.937
20x20x3.0	6500	3.523
25x25x3.0	6500	4.609
25.4x25.4x1.2	6150	1.882
50x50x1.7	5410	4.690
50.8x50.8x2.03	6500	6.799
50.8x50.8x3.2	6500	10.576
76.2x76.2x6.35	12000	54.204
100x100x3.0	6500	20.924

### Round Tubes 6060

12x1.6	6000	0.870
16x1.2	6000	0.924
16x1.6	6000	1.200
19x1.2	6000	1.116
20x1.2	5900	1.158
20x1.6	6500	1.664
22x1.5	6500	1.742
25x1.6	6500	2.119
25x3.0	6500	3.731
25.4x1.22	6500	1.677
32x1.6	6500	2.750
32x3.0	6500	4.914
40x1.6	6500	3.471
40x3.0	6500	6.279
50x6.0	4750	10.901
63.5x6.35	4720	14.892
80x2.0	6500	8.814
100x2.0	6500	11.500
100x3.0	6500	16.445

## Square Edge Hollow Sections 6060 T5

### Rectangular

Size	Length	Mass/ln
40x25x2.5	6500	5.395
50x25x3.0	6500	7.449
50x40x3.0	6500	9.068
50.8x25.4x2.35	6500	6.084
60x40x3.0	6500	10.147
60x50x3.0	6500	11.226
76.2x25.4x2.36	6500	8.281
80x40x3.0	6500	12.305
80x50x3.0	6500	13.384
100x50x3.0	6500	15.542
150x50x3.0	6500	20.937
200x50x3.0	6500	26.338

## Radius Edge Hollow Sections 6060 T5

### Rectangular

Size	Length	Mass/ln
38.1x25.4x1.5	4810	2.328
38.1x25.4x1.5	5000	2.420
38.1x25.4x1.5	6000	2.904
101.6x76.2x2.35	12000	25.152
152x76x6	6000	45.420
152x76x6	12000	90.840

### Round Tubes 6060 T591

38.1x3.2	6500	6.481
44.5x3.2	6500	8.060
48.4x4.7	6500	11.115
50x2.0	6500	5.421
50x3.0	6500	7.969
50x4.0	6500	10.400
60x2.0	6500	6.559
60x3.0	6500	9.659
60x5.0	6500	15.600
63.5x3.2	4800	8.011
76.2x4.7	6000	17.526
80x3.0	6500	13.052

### Round Tube 6061 T6 / 6082 T6

38.1x3.2	6000	5.982
48.4x4.47	6100	10.431
63.5x6.3	6000	18.930
75x7.0	6500	26.897
88.9x6.35	6500	29.621
101.6x6.35	6500	34.177
114.3x6.35	6500	39.039
180x6.0	6500	59.001

Notes \_\_\_\_\_

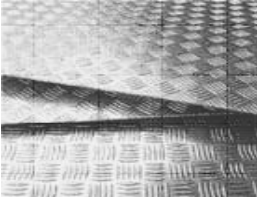


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# Aluminium Sheets & Plates

## Aluminium Sheets, Plate & Tread Plate - 5005 ,5052 ,5083 & 5005 0 (5Bar)


Alloys and Uses.	Size	t	Mass/sh 5005 H34	Mass/sh 5052 H32	Mass/sh 5083 H321	Mass/sh Tread plate	
<b>Grade 5005 H34 Sheet</b> This is a general purpose alloy suitable for a wide range of sheet metal applications. Suitable for welding.	1200 x 2400	0.60	4.683	n/a	n/a	n/a	
	1200 x 2400	0.80	6.244	n/a	n/a	n/a	
	1200 x 2400	1.00	7.805	n/a	n/a	n/a	
	1200 x 3600	1.00	12.001	n/a	n/a	n/a	
	1200 x 2400	1.20	9.366	9.366	n/a	n/a	
	1200 x 3000	1.20	12.000	n/a	n/a	n/a	
	900 x 1800	1.60	7.199	n/a	n/a	n/a	
	1200 x 2400	1.60	12.488	12.488	n/a	13.577	
	1200 x 3000	1.60	15.610	n/a	n/a	n/a	
	1200 x 3600	1.60	18.732	n/a	n/a	n/a	
<b>Grade 5052 H32 Sheet</b> Used in sheet metal work, appliances and marine applications.	1200 x 2400	2.00	15.610	15.61	n/a	17.122	
	1200 x 3000	2.00	19.512	n/a	n/a	n/a	
	1200 x 3600	2.00	24.000	n/a	n/a	n/a	
	1500 x 3600	2.00	30.002	n/a	n/a	n/a	
	1200 x 2400	2.50	19.512	19.512	n/a	21.845	
	1200 x 4800	2.50	n/a	n/a	n/a	n/a	
	1200 x 6000	2.50	n/a	50.004	n/a	n/a	
	1500 x 2400	2.50	n/a	24.39	n/a	n/a	
	<b>Grade 5083 H321 Plate</b> Used in high strength structural applications principally in the form of sheet and plate for welded marine applications and road transport vehicles.	900 x 1800	3.00	13.499	n/a	n/a	n/a
		1200 x 2400	3.00	23.414	23.414	23.99904	25.978
1200 x 3000		3.00	30.000	n/a	n/a	n/a	
1200 x 3600		3.00	35.122	n/a	n/a	38.963	
1200 x 4800		3.00	n/a	n/a	n/a	n/a	
1200 x 6000		3.00	n/a	58.536	n/a	67.996	
1200 x 6100		3.00	n/a	n/a	60.99756	n/a	
1525 x 6100		3.00	n/a	n/a	77.521	n/a	
<b>Grade 5052 0 (5 Bar)Plate</b> Used in a wide variety of diverse applications such as step treads, marine foot traffic and more lately in a decorative form on shop floors and bar fronts.		1200 x 2400	4.00	31.219	n/a	32.000	n/a
		1200 x 6100	4.00	n/a	n/a	81.3252	n/a
	1525 x 6100	4.00	n/a	n/a	103.3508	n/a	
	1830 x 6100	4.00	n/a	n/a	124.0201	n/a	
	1200 x 2400	5.00	39.024	n/a	40.00032	40.738	
	1200 x 4800	5.00	n/a	n/a	n/a	n/a	
	1200 x 6100	5.00	n/a	n/a	101.6675	n/a	
	1525 x 6100	5.00	n/a	n/a	129.2024	n/a	
	1830 x 6100	5.00	n/a	n/a	155.0429	n/a	
	2200 x 9000	5.00	n/a	n/a	305.558	n/a	
	1200 x 2400	6.00	46.829	n/a	48.0096	49.001	
	1200 x 3600	6.00	n/a	n/a	n/a	73.505	
	1200 x 6000	6.00	n/a	n/a	n/a	101.840	
	1200 x 6100	6.00	n/a	n/a	122.0024	n/a	
	1525 x 6100	6.00	n/a	n/a	155.0448	n/a	
	1830 x 6100	6.00	n/a	n/a	186.0537	n/a	
	2200 x 9000	6.00	n/a	n/a	366.674	n/a	
	1200 x 2400	8.00	n/a	n/a	63.99936	n/a	
	1830 x 6100	8.00	n/a	n/a	248.0642	n/a	
	1200 x 2400	10.00	n/a	n/a	80.00064	n/a	
1200 x 6000	10.00	n/a	n/a	200	n/a		
1200 x 2400	12.00	n/a	n/a	95.99904	n/a		
1200 x 2400	16.00	n/a	n/a	127.9987	n/a		
1200 x 2400	20.00	n/a	n/a	160.0013	n/a		
1200 x 2400	25.00	n/a	n/a	199.9987	n/a		



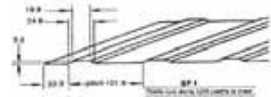


# Aluminium Round Machining Rods




Aluminium Round Machining Rod 2011 - T6					
Alloys and Uses.	Size	Grade		Length-mm	Mass kg/ln
<p><b>Grade 2011 - T6</b></p> <p>A strong alloy specially developed for high speed machining.</p> <p>Used for parts produced on repetition machines.</p>  <p>Corrosion Resistance, Anodising, Forming and Welding characteristics are all poor for this grade</p>	12.70	T6	Stock lengths may vary.	3600	1.318
	16.00	T6		3600	2.002
	19.05	T6		3600	2.966
	22.00	T6		3600	3.780
	25.40	T6		3600	4.918
	28.58	T6		3600	6.678
	31.75	T6		3600	7.729
	36.00	T6		3600	10.141
	40.00	T6		3600	12.060
	42.00	T6		3600	13.806
	50.00	T6		3600	19.573
	65.00	T6		3600	33.059
	80.00	T6		3600	33.386
	90.00	T6		2400	65.598
	100.00	T6		3000	65.430
130.00	T6	1500	55.101		

## Aluminium Cargo Van Sheeting

Aluminium Cargo Van Sheeting - White PVC					
			5005 H34	Mass kg/sh	Mass kg/sh
	Size	t	PVC Coated	Flat	Ribbed
	1200 x 2400	0.80	Yes	6.399	6.399

## Stainless Steel Sheets



Stainless Steel Sheets & Plates					
Alloys and Uses.	Size	t	Mass kg/sh	Mass kg/sh	Mass kg/sh
<p><b>Grade 304</b></p> <p>It is an austenitic, corrosion resistant steel with excellent strength, toughness, fabrication features and weld ability.</p>  <p><b>Grade 316</b></p> <p>Grade 316 is a member of the 18/8 chromium nickel group of austenitic stainless steels for use in high areas of chlorine and hygienic surfaces.</p>	mm	mm	304 2B	304 No4 PVC	316 2B
	1219 x 2438	0.55	n/a	13.366	n/a
	1219 x 2438	0.70	n/a	17.011	n/a
	1219 x 2438	0.90	21.871	21.871	n/a
	1219 x 2438	1.20	29.162	29.162	29.16
	1219 x 2438	1.50	36.452	36.452	35.86
	1219 x 2438	2.00	48.603	n/a	48.60
	1500 x 3000	2.00	74.745	n/a	74.75
	1219 x 2438	2.50	61.697	n/a	n/a
	1219 x 2438	3.00	72.904	n/a	n/a
	1500 x 3000	3.00	112.095	n/a	n/a
	1500 x 3000	5.00	186.750	n/a	n/a
	1500 x 3000	6.00	224.100	n/a	n/a

Notes



**no flies...**



# Aluminium Sheets & Plates

## Grades

### Alloy Steel Bar

#### Grades - High Tensile

- 4140 High Tensile material is generally supplied in the Hardened and Tempered condition.
- 4340 The steels are listed approximately in order of tensile strength.
- EN25
- EN26

### Bright Steel Bar

#### Grades:-

- U1004 Available in Rounds, Squares, Hexagons and Flat Bars. Cold finished to provide closer size tolerances. The various grades provide varying characteristics for strength, welding and machining. These plain carbon grades are listed in order of carbon content and tensile strength.
- M1020
- M1030
- 1040
- 1045
- 1214 Available in rounds, hexagons and some squares. Both free machining grades for repetition machining.
- 12L14

### Hollow Bars

#### Grades:-

- 147M Micro alloyed steel giving high - strength, machinability and weldability.
- 4140 High strength grade supplied in the hardened and tempered condition.

### Stainless Bar

#### Grades:-

- 303
  - 304
  - 316
  - 316/L
  - 431
  - 2205
  - 630
- Used in areas where corrosion resistance is paramount.



### Hydraulic Tube

#### Grades:-

- DOM Honed Used to make Hydraulic Cylinders or Ram Tubes.
- DOM Unhoned

### Spring Steel Bars

#### Grades:-

- XK9261S Rounds in a range 13mm - 36mm
- XK9258S RE Flats in a range 45x6 - 130x20.
- XK9258S Square Edge flats 32x5 - 130x10.

## Uses

### Alloy Steel Bar

#### Uses:-

- Mining, Earthmoving & Transport.
- 4140 Bolts, nuts, axles, shafts, pins & gears.
- 4340 Axles, shafts, pins & gears.
- EN25 Axles, shafts, pins & gears.
- EN26 Axles, shafts, pins & gears.

### Bright Steel Bar

#### Uses:-

- U1004 Supplied in very small flats.
  - M1020 Screws, fittings, shafts, bolts and nuts.
  - M1030 Screws, fittings, shafts, bolts and nuts.
  - 1040 Fittings, shafts, bolts and nuts.
  - 1045 Fittings, shafts, bolts and nuts.
  - 1214 Hydraulic fittings, nuts and bolts.
  - 12L14 Hydraulic fittings, nuts and bolts.
- 1214 and 12L14 are Free Machining Grades and are used where mass production of parts are required. The 12L14 has a lead addition for faster and easier machining.

### Hollow Bars

#### Uses:-

- 147M Used for bushes, shafts, flanges, saving machining and weight costs of solid.
- 4140 Used when extra strength and toughness required for axles, shafts, pins and gears.

### Stainless Bar

#### Uses:-

- 303 Free Machining for mass produced screws, fittings, shafts, bolts and nuts.
- 304 General purpose, readily weldable For parts such as fittings, shafts, bolts, nuts and valves.
- 316 & 316L Suitable for marine and chemical applications in fittings etc.
- 431 High Tensile pump shafts, valve stems, bolt studs.
- 2205 High strength & corrosion resistance for marine & pump shafts, and valves.
- 630 Precision Hardening for components in marine and aerospace industries.

### Hydraulic Tube

#### Uses:-

- Bronze Bushing material in Mining & Agriculture
- Cast Iron Transport Industry or Hydraulic Cylinders.

### Spring Steel Bars

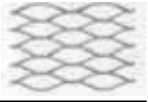
#### Uses:-

- Mainly agricultural usage.
- XK9261S Coil Spring and agricultural tynes.
- XK9258S Leaf Springs or chopping blades
- XK9258S Chopping blades and wear strips.

## Notes



# Floormesh - Expanded Metal



## Expanded Metal - Gridmesh

Graham Group Code	BlueScope Similar Code	Lockers Similar Code	Sheet Size mm(LWM) x mm(SWM)	Aperture LWM x SWM	Mass Ea/kg
FM 14060	GR50080	WK4514	600 x 3000	135mm X 45mm	25.20
FM 14075	GR50080	WK4514	750 x 3000	135mm X 45mm	31.50
FM 14090	GR50080	WK4514	900 x 3000	135mm X 45mm	37.80
FM 14120	GR50080	WK4514	1200 x 3000	135mm X 45mm	50.40
FM 19060	GR50110	WK4519	600 x 3000	135mm X 45mm	34.20
FM 19075	GR50110	WK4519	750 x 3000	135mm X 45mm	42.75
FM 19090	GR50110	WK4519	900 x 3000	135mm X 45mm	51.30
FM 19120	GR50110	WK4519	1200 x 3000	135mm X 45mm	68.40
FM 22060	GM50075	WK3022	600 x 3000	75mm x 30mm	39.60
FM 22075	GM50075	WK3022	750 x 3000	75mm x 30mm	49.50
FM 22090	GM50075	WK3022	900 x 3000	75mm x 30mm	59.40
FM 22120	GM50075	WK3022	1200 x 3000	75mm x 30mm	79.20
FM 28060	GM50105	WK3028	600 x 3000	75mm x 30mm	50.40
FM 28075	GM50105	WK3028	750 x 3000	75mm x 30mm	63.00
FM 28090	GM50105	WK3028	900 x 3000	75mm x 30mm	75.60
FM 28120	GM50105	WK3028	1200 x 3000	75mm x 30mm	100.80

Expanded mesh can be used for walkways, stair treads, work platforms, ramps, flooring and security screens.

Supplied in two finishes, untreated (black) and galvanized to AS/NZS 4680.1999

Sheet size, strand width and weight are nominal. Thickness and weight may vary by 5%.

### Notes

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**no flies...**



# Balltube Handrailing

## Balltube Handrail System - AS 1657-1992

Stanchion Code	Description	Mass Std Duty 3.2mm W/T	Mass Hvy Duty 4.0mm W/T
BP	Horizontal Base Plate Stanchion - Straight Railing	4.8	5.3
BPA	Horizontal Base Plate Stanchion - Angled Railing	4.8	5.3
C	Collar Stanchion - Straight Railing	4.9	5.4
CA	Collar Stanchion - Angled Railing	4.9	5.4
W	Welded Stanchion - Straight Railing	3.9	4.4
WA-WAA	Welded Stanchion - Angled Railing	3.9	4.4
SM	Side Mounted Stanchion - Straight Railing	5.0	5.6
SMO	Offset Side Mounted Stanchion - Straight Railing	5.3	5.9
SMA	Side Mounted Stanchion - Angled Railing	4.9	5.4
SMC	Side Mounted Conveyor Stanchion - Straight Railing	4.9	5.4
SMOA	Offset Side Mounted Stanchion - Angled Railing	5.3	5.9
BPAM	Angle Base Plate - Angled Railing	4.5	5.0
SBW	Single Ball Welded Stanchion - Straight Railing	3.9	4.4
SBWA	Single Ball Angle Base Plate - Angled Railing	3.9	4.4
SBBP	Single Ball Base Plate Stanchion - Straight Railing	1.7	2.0
SBSM	Single Ball Side Mounted Stanchion - Straight Railing	2.0	2.3
SBH	Single Ball Offset Stanchion - Straight Railing	1.3	-

End Closure	Description	Mass per 25 NB	Mass for 32 NB
SB,SBA	Standard 90° Bend - Standard Angled Bends	1.4	1.8
CB	Horizontal Closure Bends	2.2	2.8
CBA	Closure Bends - Angled	2.2	2.8

Standard Duty Stanchions are made from 40 NB (48.3mm OD) tubing with a 3.2mm wall thickness.

Heavy Duty Stanchions are made from 40 NB (48.3mm OD) tubing with a 4.0mm wall thickness.

The standard drilling for rails are, Top Rail 32 NB (42.4mm OD) and a mid rail of 25 NB (33.7mm OD)

Kick Plates are standard 100 x 6mm and in 6.000m lengths

Base Plates are made from 75 x 146 x 10mm plate with 18mm diameter holes on 102mm centers.

Standard finish is Hot Dipped Galvanized to AS/NZS 4680:1999.

The maximum recommended pitch for stanchions is 2.000m.

Attachments & non-standard stanchions available on request.



## Grating

### Weldlok Grating

How to read Weldlok Forgebar Product Coding

A	S	30	32	5
Cross Bar Pitching	Serrated Load Bars	Load Bar Pitchings	Load Bar Depth	Nominal thickness

Cross Bar Pitch    A = 100mm Centres    B = 50mm Centres

Load Bar Pitch    Series 30 - 30mm Centres, Series 40 - 40mm Centres, Series 60 - 60mm Centres.

Load Bar Size    From 20 x 3mm to 65 x 5 mm. Cross Bars from 6mm square and twisted.

Sheet (Mat) Sizes - Approximately 6.000m in Length, widths may vary but approximately 1.055m wide.

Please check all sizes at placement of your order as supplier measurements may vary.



Notes

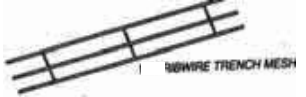
# Reinforcing Mesh



## Reinforcing Meshes - AS/NZS4671

Old Code	New term	Standard unit	Mass kg	Typical Size
RF81	SL81	Sheet	116	6m x 2400mm
RF102	SL102	Sheet	80	6m x 2400mm
RF92	SL92	Sheet	65	6m x 2400mm
RF82	SL82	Sheet	52	6m x 2400mm
RF72	SL72	Sheet	40	6m x 2400mm
RF62	SL62	Sheet	33	6m x 2400mm
RF62H	SL62H	Half Sheet	16	3m x 2400mm
RF52	SL52	Sheet	21	6m x 2400mm
RF52H	SL52H	Half Sheet	11	3m x 2400mm
RF1018	RL1018	Sheet	109	6m x 2400mm
RF1118	RL1118	Sheet	131	6m x 2400mm
RF1218	RL1218	Sheet	157	6m x 2400mm
RF718	RL718	Sheet	68	6m x 2400mm
RF818	RL818	Sheet	79	6m x 2400mm
RF918	RL918	Sheet	93	6m x 2400mm

# Trench Mesh



## Trench Meshes -AS/NZS4671

Old Code	New term	Standard unit	Width m	Mass kg
R8TM200	L8TM3	6.0m	0.200	7
R8TM300	L8TM4	6.0m	0.300	9
R8TM400	L8TM5	6.0m	0.400	11
R11TM200	L11TM3	6.0m	0.200	13
R11TM300	L11TM4	6.0m	0.300	18
R11TM400	L11TM5	6.0m	0.400	22
R12TM200	L12TM3	6.0m	0.200	16
R12TM300	L12TM4	6.0m	0.300	22

# Deformed Bar



## Deformed Bars

Old Code	New term	Standard length m	Approx Lengths per tonne	Metres/t
D10	N10S	6.0	264	1582
D12	N12S6	6.0	183	1099
D16	N16S6	6.0	103	617
D20	N20S6	6.0	66	395
D24	N24S6	6.0	46	275

### Accessories:-



Ligature Fitments, Prefabricated Footing Cages, Corner Bars, Starter Bars, Reinforcement Ties, Reinforcement Spacers - Bar Chairs, Slab Bolts, Reo Sok Caps, Dowel Caps, Polythene Building Film, PVC Joining Tape, Flexible Expansion Jointing, Connolly Key Joint, Permanent Polythene Foam Filler Strip, Crack A Joint, Mechanical Couplers and Splicers. What do you need to complete your project?



**no flies....**



# Steel Building Components

Steel Building Frame Sections.																																			
Profile	Product	Dimensions mm x mm	BMT mm	Stock Lengths mm	Lengths per Pack																														
	Standard Stud	75 x 32	1.20	7500	50																														
	Standard Plate	78 x 31	1.20	7500	50																														
	Standard Nogging	72 x 34	1.20	7500	50																														
	Supratruss Chord	75 x 38	0.60	6100/7500	50																														
	Supratruss Web	51 x 28	0.75	6100	50																														
	Hip Rafter	104 x 35	1.60	6000	20																														
	Hip Rafter Angle	35 x 35	1.20	4800	20																														
	Valley Support	545 x 24	0.42	6000	10																														
	Trim Angle	35 x 35	1.00	4800/5800	40																														
	Ceiling Batten 22mm	63 x 22	0.42/0.55	6100	25																														
	Roof Batten 40mm	75 x 40	0.55	7500	25																														
	Roof Batten 50mm	88 x 50	0.75	7500	25																														
	Topspan 61	102.5 x 61	0.75	7500	25																														
	Topspan 61	102.5 x 61	1.00	7500	25																														
	Topspan 64	96 x 64	0.75	7500	25																														
	Topspan 120	149 x 120	0.70	7500	20																														
	Topspan 120	149 x 120	0.90	7500	20																														
	Topspan 120	149 x 120	1.00	7500	20																														
	<table border="1"> <tr> <td>Section</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> </tr> <tr> <td>TS22</td> <td>22</td> <td>30</td> <td>40</td> <td>12</td> </tr> <tr> <td>TS40</td> <td>40</td> <td>32</td> <td>44</td> <td>12</td> </tr> <tr> <td>TS50</td> <td>50</td> <td>25</td> <td>45</td> <td>20</td> </tr> <tr> <td>TS61</td> <td>61</td> <td>36</td> <td>66</td> <td>14</td> </tr> <tr> <td>TS120</td> <td>120</td> <td>40</td> <td>97</td> <td>26</td> </tr> </table>	Section	A	B	C	D	TS22	22	30	40	12	TS40	40	32	44	12	TS50	50	25	45	20	TS61	61	36	66	14	TS120	120	40	97	26				
Section	A	B	C	D																															
TS22	22	30	40	12																															
TS40	40	32	44	12																															
TS50	50	25	45	20																															
TS61	61	36	66	14																															
TS120	120	40	97	26																															
	Interlok Grating	225 x 63	MM / MF	6075	1																														
	Roof Track	450 mm	1.20	3048/6074	kg/m 8.24																														
	Roof Track	675 mm	2.00	3048/6074	12.2																														
	Steel Strapping	30 mm	0.80	30 m	5.652 kg																														
	Steel Strapping	30 mm	1.00	30 m	7.065 kg																														
	Steel Strapping	32 mm	1.20	50 m	15.07 kg																														
	Punched & Unpunched	32 mm	1.20	100 m	37.68 kg																														

High strength, light weight galvanized steel wall framing has many advantages to offer the builder over timber products.

### The main advantages offered to you when buying steel building products:-

- High strength and long life
- Design freedom
- Fire and termite resistant
- Other accessories available from each of the manufacturers. Not all accessories are able to be shown on this page. Some dimensions may differ from each manufacturer.
- Compatible with many other building products
- Pre-fabricated steel frames are precision engineered
- No expensive tools needed


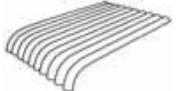









Notes \_\_\_\_\_





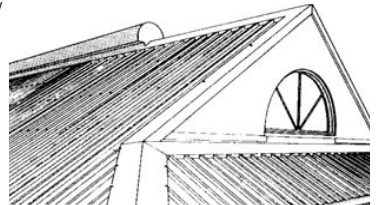
# Roof & Wall Sheeting

Roofing and Walling Profiles		Roof & Wall Sheeting					Max recommended spacing of supports for normal conditions		
		BMT mm	Mass kg/m <sup>2</sup>	Width of Coverage mm	Depth of Rib mm	Minimum Recommended Roof Pitch mm	Roof		Walls
							Internal Spans mm	End Spans mm	Internal Spans mm
	Custom Orb® (Corrugated)	0.42	4.30	762	16	5 degrees	1200	900	2700
		0.48	4.90	762	16	(1 in 12)	1700	1300	2700
	Custom Blue Orb® For Curving	0.60	6.03	762	17	5 degrees	1800	1600	2900
		0.80	7.97	762	17	(1 in 12)	2600	1800	2900
	Trimdek Hi-Ten®	0.42	4.30	762	29	2 degrees	1900	1300	2300
		0.48	4.90	762	29	(1 in 30)	2600	1850	2300
	Spandek Hi-Ten®	0.42	4.70	700	24	3 degrees	2400	1800	2300
		0.48	5.30	700	24	(1 in 20)	3000	2200	2500
	Klip-Lok 406®	0.42	4.90	406	41	2 deg (1 in 30)	2100	1700	1800
		0.48	5.60	406	41	1 deg(1 in 50)	3000	2400	2400
		0.60	6.90	406	41	1 deg(1 in 50)	3600	2700	3000
	Klip-Lok 700®	0.42	4.66	700	41	2 deg (1 in 30)	2100	1700	
		0.48	5.28	700	41	1 deg(1 in 50)	3000	2550	1900
		0.60	6.56	700	41	1 deg(1 in 50)	3600	2900	2900
	Integrity 890®	0.42	4.20	890	40	2 deg (1 in 30)	2100	1500	2800
		0.48	4.80	890	40	1 deg(1 in 50)	2300	1700	2900
	Integrity 820®	0.42	4.60	820	48	2 deg (1 in 30)	2800	2300	2800
		0.48	5.20	820	48	1 deg(1 in 50)	3050	2550	3000
	Flatdek™	0.42	6.25	250	45	2 deg (1 in 30)	3600	4000	na
		0.42	6.25	620	45	2 deg (1 in 30)	3600	4000	na

Flatdek 620 manufactured in Qld only.

Please note, other manufacturers sheet profiles may differ in dimensions and also by name.

The advantages of a steel roof go beyond its eye-catching appeal. Not only does it come in a range of colours and styles that you can match to suit your home perfectly. The profiles shown are from BlueScope Lysaght and are lighter, stronger, easier to erect and much easier to maintain than ever before. ZINCALUME® steel and COLORBOND® prepainted steel is as practical as modern technology can make it. Guaranteed to last at least twice as long as ordinary galvanized steel of identical thickness. COLORBOND® prepainted steel finishes are oven-baked and highly resistant to chipping, cracking, peeling and fading. Tough, durable, economical and available in a wide range of colours and styles to suit any design, no wonder a modern BlueScope Lysaght steel roof is such an attractive choice.



### Accessories Available

Valley Guttering, Ridge Capping, Barge Capping, Flashings, Roof Screws, Guttering and Brackets, Internal and External Gutter corner, Downpipes, Drops, and downpipe brackets. What do you need to complete your dream home?









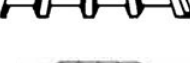

Notes \_\_\_\_\_



# Wall Sheetings



## Wall Sheetings & Polycarbonate® Sheeting

Walling Profiles only		BMT mm	Mass kg/m <sup>2</sup>	Width of Coverage mm	Depth of Rib mm	Max recommended spacing of supports for normal conditions		
						Walls		Walls
						Single Spans mm	End Spans mm	Internal Spans mm
	Wallclad® (Corrugated)	0.35	3.60	762	16	2200	1700	2200
	Trimwall®	0.35	3.60	762	29	2300	2100	2300
	Panelrib®	0.35	3.20	850	4	1000	1100	1200
		0.42	3.80	850	4	1100	1200	1200
	Multiclad®	0.35	3.25	840	12	1100	1300	1700
		0.42	3.85	840	12	1400	1800	1800
	Mini Orb®	0.42	3.97	820	6	na	na	1300
		0.48	4.51	820	6	na	na	1500
	Easyclad Hi-Ten® 2PF300	0.42	4.50	300	12	na	na	1150
		0.42	4.50	300	19	na	na	900
	Multiline 600®	0.35	3.10	593	12	na	na	na
	Multiline 900®	0.35	3.10	890	12	na	na	na
		0.42	3.70	890	12	na	na	na

### TRANSLUCENT POLYCARBONATE® ROOF AND WALL SHEETING



Custom Orb®



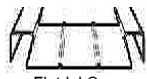
Trimdek Hi-Ten®



Spandek Hi-Ten®



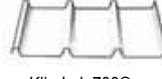
Klip-Lok 406®



Flatdek®



Integrity 820®



Klip-Lok 700®

**Thickness** - 2400 a/m<sup>2</sup> for all. 1800a/m<sup>2</sup> & 3050a/m<sup>2</sup> subject to enquiry.

**Lengths** - Maximum length is 12200 mm - Longer lengths subject to manufacturers enquiry.

**Colours** - Clear, Opal all profiles, Lite Green only available in Custom Orb® and Trimdek® Hi-Ten. Add translucent sheeting to the roof or walls and brighten the interior of any building. Great for industrial sheds and warehouses.

**Fasteners** - All screws should have 32 mm Weatherlok Washers or refer to manufacturers specifications. Use similar screws as you would for metal claddings.

Notes

**no flies...**



**32**



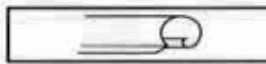
# Rainwater Accessories

## Rainwater Accessories

A house is incomplete until the finishing accessories are added and waterproof the roof. Then the house becomes a home. The following flashings are only a few that will complete a roof. Flashings are available in Colorbond®, Zinalume and Galvabond. Custom made flashings are also available but there could be length limitations. Check at placement of orders.



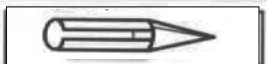
**Barge Capping**



**Barge Roll**



**Barge Roll Capping**



**Spear Point**



**Apron Flashing**



**Tile Flashing**



**Ridge Capping**



**Roll Top Ridge Capping**



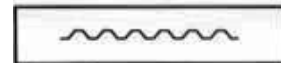
**Valley Flashing**



**Ribbed Valley**



**Structural Valley**



**Valley Support**



**Barge Gutter**

When water runs from your roof into the guttering system then falls through the downpipes, care must be taken not to mix Colorbond®, Zinalume® with the likes of Galvabond®. Water running from a Zinalume® roof into a Galvabond® guttering & downpipe system, can cause the Galvabond® components to "rust" away and need replacing in a short time.



### Downpipes - round

1800 & 2400mm lengths (Custom cut on request.)

### Diameters (mm)

50, 65, 75, 90, 100, 125, 150, 175, 200, 225, 250, 275 & 300mm.

Some round downpipes are tapered to allow one end to slip inside the next.



### Downpipes - square or rectangular

1800 & 2400mm lengths (Custom cut on request.)

### Dimensions (mm)

100x50, 100x75, 100x100, 125x100, 150x100 & 150x150. all tapered to allow each end to slip inside the next.



**Round**



**Square/Rectangular**

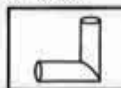


**Crimped Bends  
90/45°**

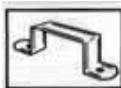


**Chinamens Hat  
(on short pipe)**

### Downpipe Bends/Elbows (made to 45 or 90° angle)



**Round  
Astragals/Straps**



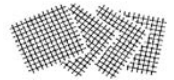
**Square/  
Rectangular  
Astragals/Straps**

The above components are only but a few of the many items that can and may be needed to complete a roof.

Notes \_\_\_\_\_



# General Purpose Galvanized Mesh



## Easy Sheets

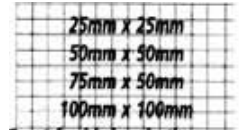
Size of mesh	Size	kg/sheet	Size of mesh	Size	kg/sheet
25 x 25 x 2.5	2.0 m x 1.2 m	7.65			
50 x 25 x 2.5	2.0 m x 1.2 m	5.66	75 x 50 x 4.0	2.0 m x 1.2 m	7.99
50 x 50 x 4.0	2.0 m x 1.2 m	9.68	100 x 100 x 4.0	2.0 m x 1.2 m	9.72

Easy to make Birds, Catteries and other protective cages.

Easy for those small reinforcing jobs, Trellises and Trailer Cages.

Easy to make a Greenhouse shelf or a Wine Racking system.

Easy for you to carry in your trailer or utility.



## General Purpose Meshes

Product Code	Standard Unit	Sheet Size m x m	Long wires mm @ mm	Cross wires mm	Mass kg/sheet
WG2A11	Sheet	3.0 m x 2.4 m	2.5 @ 25	2.5 @ 25	23
WG422	Sheet	3.0 m x 2.4 m	4.0 x 50	4.0 @ 50	29
WG423	Sheet	3.0 m x 2.4 m	4.0 x 50	4.0 @ 75	24
WG523	Sheet	3.0 m x 2.4 m	5 @ 50	5.0 @ 75	38
WG544	Sheet	3.0 m x 2.4 m	5 @ 100	5 @ 100	29
WG546	Sheet	3.0 m x 2.4 m	5 @ 100	5 @ 150	25
WG2A233012	Roll	30 m x 1.200 m	2.5 @ 50	2.5 @ 75	36
WG2A233018	Roll	30 m x 1.800 m	2.5 @ 50	2.5 @ 75	71
WG2A443012	Roll	30 m x 1.200 m	2.5 @ 100	2.5 @ 100	22
WG2A443018	Roll	30 m x 1.800 m	2.5 @ 100	2.5 @ 100	29

## Stock Rail - W - Strap



### Stock Rail/"W" Strap 6.000 m (Also known as Truck Side or Hungry Board)

Size Imp/mm	Thickness mm	Overall Dimension	Straight Edge	m/tonne	Mass kg/m
7" / 175	1.5	195 x 1.5	Blk/Gal	435	2.30
9" / 225	1.5	245 x 1.5	Blk/Gal	346	2.89
11" / 280	1.5	295 x 1.5	Blk/Gal	287	3.48

Size Imp/mm	Thickness mm	Overall Dimension	Single Rolled Edge	m/tonne	Mass kg/m
7" / 180	1.5	215 x 1.5	Blk/Gal	395	2.53
9" / 230	1.5	270 x 1.5	Blk/Gal	314	3.18
11" / 280	1.5	325 x 1.5	Blk/Gal	261	3.83

Size Imp/mm	Thickness mm	Overall Dimension	Double Rolled Edge	m/tonne	Mass kg/m
7" / 180	1.5	225 x 1.5	Blk/Gal	377	2.65
9" / 230	1.5	270 x 1.5	Blk/Gal	314	3.18
11" / 280	1.5	325 x 1.5	Blk/Gal	261	3.83

Notes

**no flies...**





# Conversion Tables

Mass Conversion - kilos/pounds/kilos			
kilogram kg	pound lb	pound lb	kilogram kg
1	2.205	1	0.4536
2	4.409	2	0.9072
3	6.614	3	1.361
4	8.818	4	1.814
5	11.02	5	2.268
6	13.23	6	2.722
7	15.43	7	3.175
8	17.64	8	3.629
9	19.84	9	4.082
10	22.05	10	4.536
50	110.2	50	22.68
100	220.5	100	45.36

Length Conversions - cms/inches/cms			
centimetres (cm)	inches (in)	inches (in)	centimetres (cm)
1	0.3937	1	2.54
2	0.7874	2	5.08
3	1.1810	3	7.62
4	1.5750	4	10.16
5	1.9690	5	12.70
6	2.3620	6	15.24
7	2.756	7	17.78
8	3.1500	8	20.32
9	3.5430	9	22.86
10	3.9370	10	25.40
50	19.690	50	127.0
100	39.370	100	254.0

Pressure Conversion - 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	145.0
600	4.137	1.5	217.6
700	4.826	2.0	290.1
800	5.516	2.5	362.6
900	6.205	3.0	435.1
1000	6.895	3.5	507.6
1100	7.584	4.0	580.2
1200	8.274	4.5	652.7
1300	8.963	5.0	725.2
1400	9.653	5.5	797.7

Mass Conversion - tonnes/tons/tonnes			
tonnes	tons	tons	tonnes
1	0.9842	1	1.016
2	1.968	2	2.032
3	2.953	3	3.048
4	3.937	4	4.064
5	4.921	5	5.080
6	5.905	6	6.096
7	6.889	7	7.112
8	7.874	8	8.128
9	8.858	9	9.144
10	9.842	10	10.16
50	49.21	50	50.80
100	98.42	100	101.60

Length Conversion - 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	2.485	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	160.90

Pressure Conversion - psi/Mpa/psi			
psi	Mpa	Mpa	psi
1500	10.34	6.0	870.2
1600	11.03	6.5	942.7
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








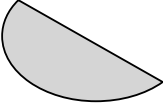

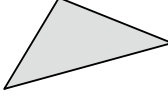

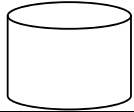



Notes \_\_\_\_\_



## Geometry & Mensuration

The following are formulae to convert the areas and volumes of some common shapes.

$\pi$  (Pronounced Pi) = 22 divided by 7 or (3.142858)

Shape	Area or Volume	Formulae	Results - Area or Volume
Rectangles	Area	Multiply the length by width.	$A(m) \times B(m) = \text{Square metres.}$
Squares	Area	Multiply the length by width.	$A(m) \times B(m) = \text{Square metres.}$
Cubes	Volume	Length x Width x Height	$A(m) \times B(m) \times H(m) = \text{Cubic metres.}$
			
Circles	Circumference	Multiply diameter x Pi or (3.142858)	$D(m) \times (\pi) = \text{metres.}$
Circles	Area	$(\pi) \times \text{Radius} \times \text{Radius}$ or $(R^2)$	$(R^2) \times (\pi) = \text{Square metres.}$
Sector of a Circle	Area	Length of Arc x Half Radius	$A(m) \times R/2 = \text{Square metres.}$
			
Triangles	Area	Base/2 x Height	$B/2(m) \times H = \text{Square metres.}$
			
Ellipse	Area	Long axis x Short axis x 0.7854	$D1(m) \times D2(m) \times 0.7854 = \text{Square metres.}$
Ellipse	Volume	Long axis x Short axis x 0.7854 x L	$D1(m) \times D2(m) \times 0.7854 \times L(m) = \text{Square metres.}$
			
	Such a shape is a water tank on a Fire truck.		
Cylinder	Area	Circumference of base x Height	$D(m) \times (\pi) \times H(m) = \text{Square metres.}$
Cylinder	Volume	Area of base x Height	$(R^2) \times (\pi) \times H(m) = \text{Cubic metres.}$
			
	Such a shape is a storage tank.		
Sphere	Area	Diameter x Diameter x (Pi)	$D(m) \times D(m) \times (\pi) = \text{Square metres.}$
Sphere	Volume	Diameter x Diameter x Diameter x 0.5236	$D(m) \times D(m) \times D(m) \times 0.5236 = \text{Cubic metres.}$
			
	Now to work out the area of the world.		
Pyramid	Area	Perimeter of base x Slant Height/3	$(A(m) + B(m) \times 2 \times \text{Slant height})/3 = \text{Square metres.}$
Pyramid	Volume	Area of base x Vert Height/3	$(A(m) \times B(m) \times H(m))/3 = \text{Cubic metres.}$
			
	Maybe the Egyptian pyramid?		
			





# Birmingham Gauge Converter

## Birmingham Gauge Converter

Inch Equiv to mm	Inch fraction	Thickness mm	BG	Inch Equiv to BG
0.3937	3/8	10.0	0	0.3964
0.3543		9.0	1	0.3532
0.3150	5/16	8.0	2	0.3147
0.2756		7.0	3	0.2804
0.2632	1/4	6.0	4	0.2500
0.2165		5.5	5	0.2225
0.1969	3/16	5.0	6	0.1981
0.1772		4.5	7	0.1764
0.1575	5/32	4.0	8	0.1570
0.1378		3.5	9	0.1398
0.1181	1/8	3.0	10	0.1250
0.1102		2.8	11	0.1113
0.0984	3/32	2.5	12	0.0991
0.0866		2.2	13	0.0882
0.0787	5/64	2.0	14	0.0785
0.0709		1.8	15	0.0699
0.0630	1/16	1.6	16	0.0625
0.5510		1.4	17	0.0556
0.0472	3/64	1.2	18	0.0495
0.0433		1.1	19	0.0440
0.0394		1.0	20	0.0392
0.0354		0.90	21	0.0349
0.0315	1/32	0.80	22	0.0313
0.0276		0.70	23	0.0278
0.0236		0.60	24	0.0248
0.0217		0.55	25	0.0220
0.0197		0.50	26	0.0196
0.0177		0.45	27	0.0175
0.0157	1/64	0.40	28	0.0156
0.0138		0.35	29	0.0139
0.0118		0.30	30	0.0123
0.0110		0.28	31	0.0110
0.0098		0.25	32	0.0098
0.0087		0.22	33	0.0087
0.0079		0.20	34	0.0077
0.0071		0.18	35	0.0069
0.0063		0.16	36	0.0061
0.0055		0.14	37	0.0054
0.0047		0.12	38	0.0048
0.0043		0.11	39	0.0043
0.0039		0.10	40	0.0039

# Quick Tips

## Quick Tips

### To Calculate the mass of steel circular hollow sections (as used in Australian Standards AS 1163)

Circular sections

$$\text{Mass} = (\text{OD} - w) \times w \times t \times 0.0246615.$$

where: Mass = mass/metre (kg/m)

OD = outside diameter (mm)

w t = section thickness (mm)

### To calculate the mass of steel plate sections

$$\text{Mass} = t \times 7.850 \times (L \times W)$$

where: Mass = mass/metre<sup>2</sup> (kg/m)

t = thickness of plate (mm)

L = length of plate (m)

W = width of plate (m)

To calculate the mass for Floorplate, add 2 kg/M<sup>2</sup>.

### To calculate the mass of Flats, Squares & Rounds.

Flats: Width (mm) x Thickness (mm) x 0.00785 = kg/m.

Squares: Size (mm<sup>2</sup>) x 0.00785 = kg/m.

Rounds: Dia: (mm<sup>2</sup>) x 0.006165 = kg/m.

### To determine the length of a conveyor belting.

Measure in inches from the outside of the roll to the opposite side of the centre opening **S**. Count the number of layers or turns of belt **N**

**C** is constant = 0.2618

$$L = S \times N \times C (0.2618) = \text{Length in feet}/3.28 = \text{metres.}$$

eg:- 26" x 61 x 0.2618 = 415.22' divide by 3.28 = 126.6m

### Australian Standards

Standard	Relevance
AS 1074	Steel tube and tubulars for ordinary service.
AS 1163	Structural steel hollow sections.
AS1722.1	Pipe threads of whitworth form.
AS/NZS 4792	Hot-dip galvanized (zinc) coatings on hollow hollow sections, applied by continuous or specialized process
AS 1396	Steel tube for water bore casing.
AS/NZS 3679.1	Structural steel - Hot rolled bars & sections.
AS/NZS 3678	Steel Hot rolled plates & floor plates.
AS 1397	Steel sheet & strip - Hot dipped zinc coated or aluminium/zinc coated.
AS 2423	Chain wire mesh for fencing.
AS 1303	Steel reinforcing wire for concrete.
AS 4100	Steel structures.
AS 1657	Balltube handrail system.

Notes



# Important Details & Phone Numbers



## Important Details & Telephone Numbers

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My local Ambulance Phone Number

My local Fire Department Phone Number

Other Important Phone Numbers

Important Birthdays

Other Important Dates

Drivers Licence Renewal Date

Pages of interest in this book

