



**BLUESCOPE
DISTRIBUTION**

STEEL GUIDE

Complete Distribution Product Guide
Version 5

Our Distribution Businesses



BlueScope Distribution operates from more than 50 metropolitan and regional sites around Australia to offer a diverse range of steel products to industries including resources, transportation, automotive, construction, infrastructure and agriculture.

www.bluescopedistribution.com.au



BlueScope Pipeline Supplies offers a wide range of steel pipe and fittings to service mining, fire and mechanical, utilities and rural industry customers throughout Australasia.

www.bluescopepipelinesupplies.com.au



BlueScope Steel - Sheet Metal Supplies offers a diverse range of sheet and coil steel products, comprising galvanised, zinc coated, aluminium zinc coated, hot rolled, cold rolled, pre-painted, aluminised, COLORBOND® steel and ZINCALUME® steel.

www.sheetmetalsupplies.com.au



Metalcorp Steel enjoys a strong position nationally with a growing retail network, providing an unparalleled commitment to servicing the complete steel needs of its customers.

www.metalcorpsteel.com.au

Index.	Page.
Pipes and Associated Products.	
Pipe - Medium - Heavy - Extra Heavy	1
Pipe - Extra Light - Light	2
Pipe - End Finishes - Victaulic® Fittings	3
Telescoping Pipes (CHS)	4
ERW Linepipes	5
Seamless Linepipes	6
Large Diameter Pipe & Red Painted Pipes.	7
Black Steel Flanges	8
Black & Galvanized Steel Fittings	9
Fittings - Butt Weld Black	10
RHS Sections & Oval Sections.	
RHS - Square Sections 20x20 to 89x89	11
RHS - Square Sections 100x100 to 400x400	12
RHS - Rectangular Sections 50x20 to 127x51	13
RHS - Rectangular Sections 150x50 to 300x400	14
Cattle Rails & Oval Sections	15
Telescoping RHS Sections	16
DuraGal Profiles	17
E.R.W Tubing	18
Cold Formed Angles & Nesting Channels	19
Cold Formed Channels & Lipped Channels	20
Black Steel Products.	
Flat Mild Steel - 13x3 to 130x25mm	21
Flat Mild Steel - Unequal Angles	22
Equal Angles - Squares - Light Billets	23
Round Mild Steel - Railway Line	24
Tapered Flanged Beams - Channels	25
Universal Beams - Universal Columns	26
Lite Steel Beams	27
Welded Beams - Welded Columns	28
Processing Options	29
Plates and Steel Sheets.	
Plain Plates, Heavy Plates, Coil Plates	30
Grade 350 Plates - Pressure & Boiler Plates	31
Floor Plates - Quenched & Tempered Plates.	32
International Standards - Structural Plates	33
International Standards - Boiler Plates	34
Sheet Metal Products.	
Hot Rolled & Brightform Sheeting	35
Lyten-Cold Rolled-COLORBOND® steel-ZINCALUME® steel	36
Zincanneal® Sheets	37
Galvabond® Sheets	38
Aluminium, Van Siding & Stainless Steels.	
Aluminium Sheets & Plates	39
Aluminium Flats, Angles & Rounds	40
Aluminium Hollows & Round Tubes	41
Aluminium Machine Round, Stainless Steel Sheets	42
Stainless Steel Flats - Squares	43
Stainless Steel Angles - Rounds	44
Stainless Steel Pipes - Polished Pipes	45
Stainless Steel Rolled Hollow Sections	46
Special Steel.	
Engineering Steels	47
Hollow Bar - Euro Norm Sizing	48

Index.	Page.
Flooring & Hand Railing.	
Welded Floor Grating - Step Treads - FRP Mesh	49
Floormesh - Gripspan - Alu-Tread Roof Walkway	50
Baltube Handrail - End Closures - Safety Gates	51
Perforated & Woven Wires (Pages 52 - 54)	
Perforated Sheet	52
Reinforcing Products (Pages 55 to 70).	
Reinforcing Products & Accessories	55
Galintel® - Flats - Angles - Rendabar	64
Reinforcing Meshes & Deformed Bars	66
Other Reinforcing Accessories	68
Building Products.	
Steel Building Frame Components	71
Supa"C" & "Z" Purlins, Guttering & Bondek®	72
Roof Sheet Profiles	73
Wall Sheet Profiles	74
Rainwater Accessories	75
COLORBOND® Steel & Fence Colour Matrix	76
Rainwater Tanks & Harvesting	77
Corrugated Culvert Pipes.	78
Fencing - Mesh - Gates.	
Chainwire - Fence Fittings	79
Domestic Fencing Options	80
Hex Netting-Ring Lock-Hinge Joint	81
Fencewire - Barbed Wire - Steel Fence Posts	82
Easy Sheets - G.P. Meshes - W-Strap	83
Standard Galv Gates - Gate Fittings	84
Cattle Handling Components.	
Metalcorp Steel Rural Crushes & Headbails	85
Metalcorp Steel Calf Cradle, Race & Load Ramps	86
Arrow Farmquip Rural Crushes	87
Arrow Farmquip Headbails & Calf Cradles	88
STUDMASTER® Cattle Management Systems	89
Metalcorp Steel Crushes	89
Cattle Handling Panels & Accessories	90
Goat Handling Equip & STUDMASTER® Sheepyards	91
STOCKSAFE™ Access Grids	92
Electric Fencing Components	93
Everything in Steel.	
Everything in Steel - Miscellaneous Products 1	94
Everything in Steel - Miscellaneous Products 2	95
Chains, Shackles & Load Restraints - Etc	96
Welding Gear - Cut Off & Grinding Wheels	97
Zinc Paints & Metal Protection	98
Additional Information.	
How do we calculate odd shapes?	99
Conversion Tables	100
Birmingham Gauge Converter - Aust Standards	101
Common Metal terms - Page1	102
Common Metal terms - Page 2	103
Notes	104
Important Details & Telephone Numbers	105
Locations.	
Metalcorp Steel Locations	i
BlueScope Distribution Outlets	ii



Medium, Heavy & Extra Heavy Pipes.

STEEL PIPE - Medium - Heavy - Extra Heavy - AS1163 C250L0 & GRD250

Nominal Size (NB)	Outside Diameter mm	Wall Thickness mm	Quantity per Sling	Common Description	Black		Galvanized		Sling Dimension mm x mm
					Plain Ends.				
					kg/m	Sling Mass	kg/m	Sling Mass	
10 *	17.2	2.3	217	Medium	0.839	1.184	0.885	1.248	300 x 260
* This item is sourced locally and is now supplied as 17.2mm O.D. x 2.3mm W.T. and to an in house specification - TS22.									
15 #	21.3	2.6	217	Medium	1.21	1.690	1.24	1.735	362 x 316
# Item no longer offered in screwed one end or screwed both ends and may also be subject to minimum order quantities.									
20	26.9	2.6	127	Medium	1.56	1.290	1.60	1.321	350 x 306
		3.2		Heavy	1.87	1.540	1.92	1.585	
		4.0		X-Heavy	2.26	1.866	n/a	n/a	
25	33.7	3.2	91	Medium	2.41	1.420	2.47	1.460	371 x 326
		4.0		Heavy	2.94	1.730	3.00	1.770	
32	42.4	3.2	61	Medium	3.10	1.230	3.18	1.260	382 x 336
		4.0		Heavy	3.80	1.500	3.87	1.530	
40	48.3	3.2	61	Medium	3.57	1.410	3.65	1.450	435 x 383
		4.0		Heavy	4.38	1.730	4.46	1.770	
		5.4		X-Heavy	5.71	2.264	n/a	n/a	
50	60.3	3.6	37	Medium	5.03	1.210	5.14	1.240	422 x 374
		4.5		Heavy	6.19	1.490	6.30	1.510	
		5.4		X-Heavy	7.31	1.780	n/a	n/a	
65	76.1	3.6	37	Medium	6.43	1.550	6.56	1.580	533 x 472
		4.5		Heavy	7.93	1.910	8.07	1.940	
		5.9		X-Heavy	10.2	2.543	n/a	n/a	
80	88.9	4.0	19	Medium	8.37	1.030	8.53	1.050	445 x 397
		5.0		Heavy	10.3	1.280	10.5	1.300	
		5.9		X-Heavy	12.1	1.494	n/a	n/a	
90	101.6	4.0	19	Medium	9.63	1.190	9.81	1.210	508 x 454
		5.0		Heavy	11.9	1.470	12.1	1.490	
100	114.3	4.5	19	Medium	12.2	1.500	12.4	1.530	572 x 510
		5.4		Heavy	14.5	1.700	14.7	1.820	
125	139.7	5.0	13	Medium	16.6	1.400	16.9	1.430	699 x 382
		5.4		Heavy	17.9	1.510	18.1	1.530	
150	165.1	5.0	10	Medium	19.7	1.280	20.0	1.300	660 x 451
		5.4*		Heavy	21.3	1.380	21.6	1.400	

The 10NB pipe may be supplied as an alternative section and therefore sizes may vary from listing above.

Please note, 150NB Heavy Pipe * is a non-preferred section and therefore subject to minimum ordering requirements.

Tip:- Galvanized pipe that needs to be powder coated, should be first degassed to avoid "cratering" of the finished surface.

Manufactured to Australian Standards

AS 1074 Steel tubes and tubulars for ordinary service.

AS 1163 Structural steel hollow sections (Grade C250L0).

AS/NZS 4792 (Section 2) HDG 300: Hot-dipped galvanized.

L0 - Pronounced, "L Zero", is the lowest ambient temperature to which these products had been tested.

HotDipGal pipe has an average coating mass of 300 g/m².

Medium pipes 20NB - 50NB Shaded, may be supplied as GRD250

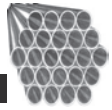
Unless noted, pipes are supplied as 6.500 metre lengths

Standard Pipe End Colour Codes.

Blue - Medium
Red - Heavy
White - X-Heavy



Extra Light & Light Pipes.



STEEL PIPE - Light - Extra Light - AS1163 C350L0 & GRD350.

Nominal Size (NB)	Outside Diameter mm	Wall Thickness mm	Quantity per Sling 6.5m	Common Description	Plain End Pipes.				Sling Dimension mm x mm
					Black/Ptd/PreGal		Galvanized		
					kg/m	Sling Mass	kg/m	Sling Mass	
20	26.9	2.0 # ■	127	Extra Light	1.23	1.010	1.28	1.050	350 x 306
20		2.3 # ■		Light	1.40	1.150	1.44	1.190	
25	33.7	2.0 # ■	91	Extra Light	1.56	0.925	1.62	0.960	371 x 326
25		2.6 # ■		Light	1.99	1.180	2.05	1.210	
32	42.2	2.0 # ■	61	Extra Light	1.99	0.790	2.07	0.820	382 x 336
32		2.6 # ■		Light	2.55	1.010	2.63	1.040	
40	48.3	2.3 # ■	61	Extra Light	2.61	1.030	2.70	1.070	435 x 383
40		2.9 # ■		Light	3.25	1.290	3.33	1.320	
50	60.3	2.3 # ■	37	Extra Light	3.29	0.791	3.40	0.818	422 x 374
50		2.9 # ■		Light	4.11	0.987	4.21	1.010	
65	76.1	2.3 # ■	37	Extra Light	4.19	1.010	4.33	1.040	533 x 472
65		3.2 # ■		Light	5.75	1.380	5.89	1.420	
80	88.9	2.6 # ■	19	Extra Light	5.53	0.683	5.70	0.703	445 x 397
		3.2 # ■		Light	6.76	0.835	6.92	0.855	
90	101.6	2.6 # ■	19	Extra Light	6.35	0.784	6.53	0.807	508 x 454
		3.2 # ■		Light	7.77	0.959	7.95	0.982	
100	114.3	3.2 # ■	19	Extra Light	8.77	1.080	8.98	1.110	572 x 510
		3.6 # ■		Light	9.83	1.210	10.0	1.240	
125	139.7	3.0 # ■	13	Extra Light	10.1	0.855	10.4	0.876	699 x 382
		3.5 # ■		Light	11.8	0.993	12.0	1.020	
150	165.1	3.0 # ■	10	Extra Light	12.0	0.780	12.3	0.799	660 x 451
		3.5 # ■		Light	13.9	0.907	14.3	0.926	

Pipe items marked are also available in a PreGal finish, including SupaGal® and/or DuraGal® products.

■ Pipe items marked as such may also be available in a painted finish.

Product Description

C350 L0, is an all purpose tubing that is available in a range of sizes, wall thickness and finishes. C350 L0 tube is manufactured by cold-forming and by the electric resistance welding process. The cold-forming process provides controls to give tight dimensional tolerances for the sections. The cold-forming process also enhances the strength, hardness and surface finish of these products.

The electric resistance welding produces a high quality weld. The internal weld bead must be a minimum of 1mm or less.

Light and Extra Light pipes are normally available in Black, Painted, PreGal or Hot Dipped Galvanized Finish.

N.B. 125NB Light and Extra Light pipe is subject to a mill minimum order quantities. Please check with your local steel outlet.

Unless noted pipes are supplied as 6.500 metre lengths. A small number of sizes may also be available as a 7.200 metre.

Specification

AS1163-1991 Structural Steel Hollow Sections (Grade C350 L0)

Extra Light Black Pipes 20NB, 25NB, 50NB & 65NB, shaded, may be supplied to GRD350 finish.

Light Black Pipes 20NB, 25NB, 32NB, 40NB & 50NB shaded, may be supplied to GRD350 finish.

End Colour Codings

Extra Light	Green
Light	Yellow

Coatings:

Painted products are coated with an Alkyd modified acrylic primer paint to a target thickness of 12 microns. The average is 8-10 microns.

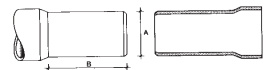
Hot Dipped Galvanized pipes are galvanized to AS/NZS 4792 HDG 300 and have a minimum coating mass of 300 g/rf.

SupaGal® products are Hot Dipped Galvanized to Section 3 of AS/NZS 4792 and have a minimum average coating of 100 g/r² on both sides..

DuraGal® products are Hot Dipped Galvanized to AS/NZS 4792 ILG 100 and have a minimum average coating of 100 g/r².

Section sizes 20NB to 50NB in Extra Light finish may also be available in a swaged one end finish

Normally available in Hot Dipped Galvanized finish only. Please check with you local steel outlet for availability.





Pipe End Finishes.

Shouldered Pipes

Features and benefits;
 Speed and ease of installation reduces downtime and labour costs.
 No specialist fitting skills or equipment required.
 Reliability at pressures to 117 bar and temperatures -34 deg C to 177 deg C.
 Each joint acts as a union. Systems can easily be dismantled for cleaning.
 The Victaulic® system is ideal for installation in areas with limited space and access.



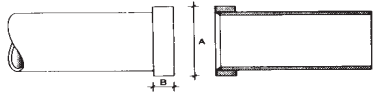
Victaulic® Fittings

Style SC77

Flexible Coupling for
 shouldered steel pipe
 50NB - 400NB.



Shouldered Pipes



Product Description

Shouldered Pipe is available in a range of sizes both in black and galvanized finish.

Shouldered pipes are joined by use of a self-sealing rubber ring embracing two ends and a coupling that encloses the ring while engaging the shoulders on the pipe ends.

The size range is 50NB - 400NB with larger sizes available on request.

Roller Grooved Pipes

This end finish also uses a similar coupling system as above.
 The system provides for limited expansion or contraction and allows for minimal longitudinal and angular movement. The Victaulic® joint will mechanically lock the pipe ends together securely and safely.



Victaulic® Fittings

Style 78

Snap - Joint
 Coupling
 25NB - 200NB

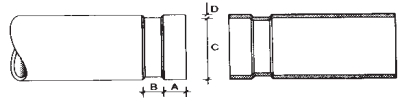


Style 07

Zero - Flex
 Rigid Coupling
 25NB - 300NB



Roller Grooved Pipes



Product Description

These pipes are available roll grooved on one or both ends in black, painted and galvanized finishes.

Style 78 - Designed for quick disconnect service
 Mated housings are hinged with an attached locking handle for assembly. Pressure rated up to 300 psi/2065 kPa.

The unique angle-pad design of the Zero-Flex® **Style 07** coupling adjusts to standard pipe and roll or cut groove tolerances, positively clamping the pipe to resist flexural loads. The wider key section fills more of the groove area.

Plain End Pipes

With many changes happening within the pipe manufacturing industry, the only available option is "plain ends".

Plain end pipe between 20NB to 40NB are cut to length on a flying saw and are cut using a "Nick and Shear" process.

The ends of these pipes are in an "as cut condition".

Plain end pipes between 50NB and 150NB are also cut on a flying saw.

The pipe ends are then machined to remove any sharp edges. This process may leave a very small bevel on the ends of these pipes

Some hot dipped galvanizing may now be done off site and therefore coating mass may be different than stated in the next column.

Plain End Pipes



Product Description

These pipes are supplied in an as cut condition.

Pipes can be supplied (depending on the size range) with the following finish.

No oil or paint finish.

Light Oil - for protection in storage and on transport.

PreGal Products supplied galvanized inside and out to an average coating mass of 100 g/m2 each side.

Blue, Red or Black paint finish.

HotDipGal - has an average galvanized coating mass of 300 g/m2 both inside and out.

Extra Light pipe may be an imported item.

Telescoping Pipes - CHS.



Telescoping Pipe Guide.

NB	Female (Outer)		Male (Inner)	
	Pipe term.	O.D. x t.	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
	Medium	21.3 x 2.6	8	1.6
	Heavy	21.3 x 3.2	8	0.4
20	Extra Light	26.9 x 2.0	15	0.4
	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
25	Extra Light	33.7 x 2.0	20	1.6
	Light	33.7 x 2.6	20	0.4
	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
	Medium	42.4 x 3.2	25	1.1
	Heavy	42.4 x 4.0	20	6.3
40	Extra Light	48.3 x 2.3	32	0.1
	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
	Heavy	60.3 x 4.0	40	2.0
65	Extra Heavy	60.3 x 5.4	40	0.2
	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
	Heavy	88.9 x 4.9	65	1.2
	Extra Heavy	88.9 x 5.9	50	15.3

Telescoping Pipe Guide.

NB	Female (Outer)		Male (Inner)	
	Pipe term.	O.D. x t.	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
	Heavy	101.6 x 5.0	80	0.8
100	Extra Light	114.3 x 3.2	90	4.1
	Light	114.3 x 3.6	90	3.3
	Medium	114.3 x 4.5	90	1.5
	Heavy	114.3 x 5.4	80	12.6
125	Extra Light	139.7 x 3.0	100	16.9
	Light	139.7 x 3.5	100	15.9
	Medium	139.7 x 5.0	100	12.9
	Heavy	139.7 x 5.4	100	12.1
150	Extra Light	165.1 x 3.0	125	16.4
	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:-

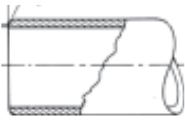
Hot Dipped Galvanized CHS are not precision tubes and all dimensions shown in this chart, although in accordance with the specifications, may vary marginally. The internal weld bead height may need to be considered when a closer fit is required.

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 required.
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.



ERW Linepipes.

ERW Linepipes - API5LB - ASTM A53/A53M - ASME B36.10

Pipe Size.		Schedule Numbers.												
N.B.	O.D.	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS
15	21.3				2.77	2.77		3.73					4.78	7.47
					1.27	1.27		1.62					1.95	2.55
20	26.7				2.87	2.87		3.91					5.56	7.82
					1.69	1.69		2.20					2.90	3.64
25	33.4					3.38		4.55	4.55				6.35	9.09
						2.50		3.24	3.24				4.24	5.45
32	42.2				3.56	3.56		4.85	4.85				6.35	9.70
					3.39	3.39		4.47	4.47				5.61	7.77
40	48.3				3.68	3.68		5.08	5.08				7.14	10.16
					4.06	4.06		5.41	5.41				7.25	9.56
50	60.3				3.91	3.91		5.54	5.54				8.74	11.07
					5.44	5.44		7.48	7.48				11.11	13.44
65	73.0				5.16	5.16		7.01	7.01				9.52	14.02
					8.63	8.63		11.41	11.41				14.90	20.39
80	88.9				5.49	5.49		7.62	7.62				11.13	15.24
					11.29	11.29		15.27	15.27				21.35	27.68
100	114.3				6.02	6.02		8.56	8.56		11.13		13.49	17.12
					16.07	16.07		22.32	22.32		28.32		33.54	41.03
125	141.3				6.55	6.55		9.53	9.53		12.70		15.88	19.05
					21.77	21.77		30.94	30.94		40.28		49.11	57.43
150	168.3				7.11	7.11		10.97	10.97		14.27		18.26	21.95
					28.26	28.26		42.56	42.56		54.20		67.56	79.22
200	219.1		6.35	7.04	8.18	8.18	10.31	12.70		15.09	18.26	20.62	23.01	22.23
			33.31	36.31	42.55	42.55	53.08	64.40		75.92	90.44	100.92	111.27	107.88
250	273.1		6.35	7.80	9.27		12.70	12.70	15.09	18.26	21.44	25.40	28.57	25.40
			41.75	51.01	60.29		81.52	81.52	95.97	114.70	133.00	115.09	172.21	155.09
300	323.9		6.35	8.38	9.53	10.31	14.27	12.70	17.48	21.44	25.40	28.57	33.32	25.40
			49.71	65.18	73.78	79.70	108.92	97.43	132.04	159.86	186.90	208.00	238.68	186.90
350	355.6	6.35	7.92	9.53	9.53	11.13	15.09	12.70	19.05	23.83	27.79	31.75	35.71	
		54.59	67.90	81.33	81.33	94.55	126.71	107.39	158.10	194.96	224.65	253.56	281.70	
400	406.4	6.35	7.92	9.53	9.53	12.70	16.66	12.70	21.44	26.19	30.96	36.53	40.49	
		62.64	77.83	93.27	93.27	123.30	160.12	123.30	203.53	245.56	286.64	333.19	365.35	
450	457.2	6.35	7.92	11.13	9.53	14.27	19.05	12.70	23.88	29.36	34.93	39.67	45.24	
		70.57	87.71	122.38	105.16	155.80	205.74	139.15	254.55	309.62	363.56	408.26	459.37	
500	508.0	6.35	9.53	12.70	9.53	15.09	20.62	12.70	26.19	32.54	38.10	44.45	50.01	
		78.55	117.15	155.12	117.15	183.42	247.83	155.12	311.17	381.53	441.49	508.11	564.81	
600	609.6	6.35	9.53	14.27	9.53	17.48	24.61	12.70	30.96	38.89	46.02	52.37	59.54	
		94.53	141.12	209.64	141.12	255.41	355.26	187.06	442.08	547.71	640.03	720.15	808.22	
650	660	7.92			9.53			12.70						
		127.36			152.87			202.72						
700	711	7.92		15.88	9.53			12.70						
		137.32		271.21	164.85			218.69						
750	762	7.92		15.88	9.53			12.70						
		147.28		292.18	176.84			234.67						

Wall thickness - mm listed in unshaded area.

Weight - kg/m listed in shaded area.

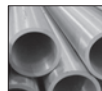
End Preparation:- Bevelled ends for API steel linepipe are normally to API specification - Angle 30° + 5° - 0°.

Linepipes may also cover the following specifications:- AS1163 C350 and AS1396. (Please check your stockist)

Sizes may range from 6mm nominal bore to 1050mm nominal bore. (Full range is not shown). Lengths are normally 12.0 metre.

Note: All weights are theoretical and approximate in accordance with the relevant standards.

Seamless Linepipes.



Seamless Linepipes - ASTM A106B

Black seamless, fully killed carbon steel pipe for high - temperature, high - pressure services.

Pipe Ends Finish.

≤ 48.3mm O.D., sizes are supplied with plain ends cut square. Lengths may be available in 6.0m or 12.0m.

≥ 48.3mm O.D., sizes (except for Double Extra-Strong pipe) are supplied with plain ends bevelled. Lengths supplied are 12.0m.

All Double Extra-Strong pipe is supplied with plain ends cut square. Lengths are supplied in 12.0m.

Pipe Size		Schedule Numbers.												
N.B.	O.D.	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS
15	21.3				2.77			3.73					4.78	7.47
					1.27			1.62					1.95	2.55
20	26.7				2.78			3.91					5.56	7.82
					1.69			2.20					2.90	3.64
25	33.4				3.38			4.55					6.35	9.09
					2.50			3.24					4.24	5.45
32	42.2				3.56			4.85					6.35	9.70
					3.39			4.47					5.61	7.77
40	48.3				3.68			5.08					7.14	10.16
					4.06			5.41					7.25	9.56
50	60.3				3.91			5.54					8.74	11.07
					5.44			7.48					11.11	13.44
65	73.0				5.16			7.01					9.52	14.02
					8.63			11.41					14.90	20.39
80	88.9				5.49			7.62					11.13	15.24
					11.29			15.27					21.35	27.68
90	101.6				5.74			8.08						
					13.57			18.63						
100	114.3				6.02			8.56			11.13		13.49	17.12
					16.07			22.32			28.32		33.54	41.03
125	141.3				6.55			9.52			12.70		15.88	19.05
					21.77			30.94			40.28		49.11	57.43
150	168.3				7.11			10.97			14.27		18.26	21.95
					28.26			42.56			54.20		67.56	79.22
200	219.1		6.35	7.04	8.11		10.31	12.70		15.09	18.26	20.62	23.01	22.22
			33.31	36.31	42.55		53.08	64.40		75.92	90.44	100.92	111.27	107.88
250	273.1		6.35	7.80	9.27		XS	12.70	15.09	18.26	21.44	XXS	28.57	25.40
			41.75	51.01	60.29		XS	81.52	95.97	114.70	133.00	XXS	172.21	155.09
300	323.9		6.35	8.38	9.53	10.31	14.27	12.70	17.48	21.44	XXS	28.57	33.32	25.40
			49.71	65.18	73.78	79.70	108.92	97.43	132.04	159.86	XXS	208.00	238.68	186.90
350	355.6	6.35	7.92	9.53	9.53	11.13	15.09	12.70	19.05	23.83	27.97	31.75	35.71	
		54.69	67.90	81.28	81.25	94.55	126.71	107.39	158.10	194.96	224.65	253.56	281.70	
400	406.4	6.35	7.92	9.53	9.53	12.70	16.66	12.70	21.44	26.19	30.96	36.53	40.49	
		62.64	77.83	93.21	93.17	123.29	160.12	123.30	203.53	245.56	286.64	333.19	365.35	
450	457.2	6.35	7.92	11.13	9.53	14.27	19.05	12.70	23.83	29.36	34.92	39.67	45.24	
		70.60	87.75	122.43	105.10	155.87	205.83	139.20	254.67	309.76	363.64	408.45	459.59	

Wall thickness - mm listed in unshaded area.

Weight -kg/m listed in shaded area.

End Preparation:-

Bevelled ends for API steel linepipe are normally to API specification - Angle 30° + 5° - 0°.

Bevelled ends for steel pipe to ASTM specification are normally to ANSI B16.25- Angle 30° + 5° - 0°.

The Dimensional standards for pipe to ASME B36.10 includes products covered by the following material specifications.

ASTM - A53, A106, A135, A139, A333, A335, A369, A379, A381, A405, A409M, A426, A523, A524 and A530.

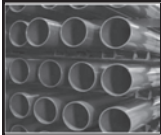


Large Diameter ERW Pipes.

Bevelled Ended, Large Structural Pipes - AS 1163 - C350L0

Outside Diameter mm	Thickness mm	mass kg/m	Surface Finish	Surface Finish	Length m	Lengths per Sling
168.3	4.0	16.2	Primer Black	-	12	7
	5.0	20.1	-	-	12	7
	6.0	24.0	Primer Black	-	12	3
	8.0	31.6	-	LiteOil	12	3
	10.0	39.0	-	LiteOil	12	3
219.1	5.0	26.4	-	LiteOil	12	3
	6.0	31.5	-	LiteOil	12	3
	8.0	41.6	-	LiteOil	12	3
	10.0	51.6	-	LiteOil	12	1
	12.5	63.7	-	LiteOil	12	1
273.1	5.0	33.1	-	LiteOil	12	3
	6.0	39.5	-	LiteOil	12	3
	8.0	52.3	-	LiteOil	12	3
	10.0	64.9	-	LiteOil	12	1
	12.5	80.3	-	LiteOil	12	1
323.9	6.0	47.0	-	LiteOil	12	3
	8.0	62.3	-	LiteOil	12	1
	10.0	77.4	-	LiteOil	12	1
	12.5	96.0	-	LiteOil	12	1
355.6	8.0	68.6	-	LiteOil	12	1
	10.0	85.2	-	LiteOil	12	1
	12.5	106	-	LiteOil	12	1
	16.0	134	-	LiteOil	12	1
406.4	8.0	79	-	LiteOil	12	1
	10.0	98	-	LiteOil	12	1
	12.5	121	-	LiteOil	12	1
	16.0	154	-	LiteOil	12	1
457.0	10.0	110	-	LiteOil	12	1
	12.5	137	-	LiteOil	12	1
	16.0	174	-	LiteOil	12	1
508.0	10.0	123	-	LiteOil	12	1
	12.5	153	-	LiteOil	12	1
	16.0	194	-	LiteOil	12	1

Other size pipes may be available - please check with our sales office.



Red Painted Pipes.

Supplied Painted Red for the Fire Protection Industry.




Red Painted Pipes. Supplied in 6.500m lengths.

Outside Diameter mm	Thickness mm	Weight kg/m	Bundling Details.	Outside Diameter mm	Thickness mm	Weight kg/m
		PE. SOE. SBE.				PE. SOE. SBE.
26.9	2.6	1.56	Standard bundling details. apply as per normal pipes.	88.9	4.0	8.37
33.7	3.2	2.41		101.60	4.0	9.63
42.4	3.2	3.10		114.30	4.5	12.2
48.3	3.2	3.57		139.70	5.0	16.6
60.3	3.6	5.03		165.10	5.0	19.7
76.1	3.6	6.43		Dual Specified:- AS1074 and AS 1163 C250L0		

Black Steel Flanges.





Black Steel Flanges. (ASME & Plate) AS 2129

ASME Flanges				Plate Steel Flanges to AS 2129					
			NB Size mm	Table "D"		Table "E"		Table "H"	
				SOW	Blind	SOW	Blind	SOW	Blind
			15	-	-	Yes	Yes	-	-
			20	-	-	Yes	Yes	Yes	-
			25	-	-	Yes	Yes	Yes	Yes
			32	-	-	Yes	Yes	Yes	Yes
			40	-	-	Yes	Yes	Yes	Yes
			50	-	-	Yes	Yes	Yes	Yes
			65	-	-	-	Yes	-	Yes
			65x76	-	-	Yes	-	Yes	-
			80	-	-	Yes	Yes	Yes	Yes
			100	Yes	Yes	Yes	Yes	Yes	Yes
			125	Yes	Yes	Yes	Yes	Yes	Yes
			150x165	Yes	-	Yes	-	Yes	-
			150x168	Yes	Yes	Yes	Yes	Yes	Yes
			200	Yes	Yes	Yes	Yes	Yes	Yes
			250	Yes	Yes	Yes	Yes	Yes	Yes
			300	Yes	Yes	Yes	Yes	Yes	Yes
			350	Yes	Yes	Yes	Yes	-	-
			400	Yes	Yes	Yes	Yes	-	-
			450	Yes	Yes	Yes	Yes	-	-
			500	Yes	Yes	Yes	Yes	-	-
			600	Yes	Yes	Yes	Yes	-	-

All dimensions are in millimetres (mm)
All flanges shall be drilled to Standard Tables unless noted.

Steel Hexagon Bolts and Nuts are recommended for use within a range of minus 50 Degrees C to plus 300 Degrees C.
Outside of this range, Stud Bolts should be used as recommended in AS 2528.

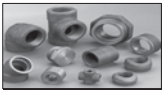
Table Plate Flanges				Flanges to -					
			NB Size mm	Table "D"		Table "E"		Table "H"	
				SOW	Blind	SOW	Blind	SOW	Blind
		T'D'	32	Yes	Yes	Yes	Yes	Yes	Yes
		T'E'	40	Yes	Yes	Yes	Yes	Yes	Yes
		T'H'	50	Yes	Yes	Yes	Yes	Yes	Yes
		Din PN16	65x76	Yes	Yes	Yes	Yes	Yes	Yes
			80	Yes	Yes	Yes	Yes	Yes	Yes
			100	Yes	Yes	Yes	Yes	Yes	Yes
			125	Yes	Yes	Yes	Yes	Yes	Yes
			150x165	Yes	Yes	Yes	Yes	Yes	Yes

Typical drilling and Bolt sizes. Tables D & E only

Nominal Flange Size DN	Flange O.D./Hls PCD	Flange Thickness Table D	Flange Thickness Table E	Bolt Diameter mm	Bolts per Flange		Nominal Flange Size DN	Flange O.D./Hls PCD	Flange Thickness Table D	Flange Thickness Table E	Bolt Diameter mm	Bolts per Flange	
					Table D	Table E						Table D	Table E
15	95/67	5	6	12	4	4	150	280/235	13	17	20	8	8
20	100/73	5	6	12	4	4	200	335/292	13	19	20	8	8
25	115/83	5	7	12	4	4	250	405/356	16	22	20	8	12
32	120/87	6	8	12	4	4	300	455/406	19	25	24	12	12
40	135/98	6	9	12	4	4	350	525/470	22	29	24	12	12
50	150/114	8	10	16	4	4	400	580/521	22	32	24	12	12
65	165/127	8	10	16	4	4	450	640/584	25	35	24	12	16
80	185/146	10	11	16	4	4	500	705/641	29	38	24	16	16
100	215/178	10	13	16	4	8	600	825/756	32	48	30	16	16
125	255/210	13	14	16	8	8							

The bolt sizes for Table D may differ from this chart from 150NB upwards.

All care has been taken in preparing these tables. No responsibility is taken for incorrect data. All details to be checked at time of placement of order.



Steel Fittings & Galv Malleable Fittings.

Black & Galvanized Steel Fittings & Unions

Product	Min/Max	Product	Min/Max	Product	Min/Max	TECHNICAL DETAILS: STEEL FITTINGS
	Bends M/M 8 - 150		Reducing Hex Nipple 8x6 100x80		Cross 8 - 50	Materials Tubular Fittings are made in accordance to AS1074 Machined fittings are generally made from free cutting steel. Threads Female: Parallel BSP Male: Taper BSP Dimensions Generally in accordance with BS EN 10241:2000 and AS 3672. Sockets "Heavy" type.
	Bends Blk Only 8 - 150		Hex Plug 6 - 100		Back Nut 6 - 80	
	Bends 45° M/M 15 - 100		Sockets 6 - 150		Barrel Nipple 8 - 80	
	Reducing Bush 8x6 100x80		Half Sockets 10 - 100		Pipe Piece 15x100 50x900	
	Elbow F/F 6 - 150		Profile Socket 20x25 65x100		Long Sockets 25 - 65	
	Elbow M/F 8 - 100		Reducing Socket 8x6 150x100	UNIONS Conical seated unions Steel/Steel Seats Steel/Bronze Seats Bronze/Bronze Seats		
	Caps 8 - 100		Equal Tee 6 - 150		Union F/F 8 - 100	
	Hex Nipple 6 - 100		Reducing Tee 10x8 150x100		Union M/F 8 - 80	

TECHNICAL DETAILS: UNIONS

Materials

Free cutting steel bodies - bronze seat inserts where applicable.

Threads

BSP Taper / Taper

Working Pressure

8-25mm: 2100kPa MAX CWP
32-100mm: 1400 kPa MAX CWP

UNIONS

Surface Finish

Black: Black Oxide Coated
Galvanized: Electro zinc plated internal & externally.

Galvanized Malleable Iron Fittings

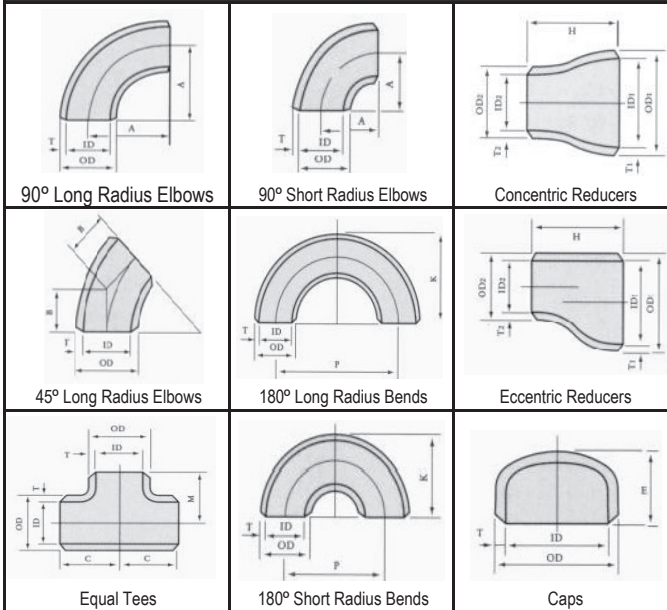
TECHNICAL DETAILS: GALV MALLEABLE FITTINGS	Product	Min/Max	Product	Min/Max	Product	Min/Max
Material Black Heart Malleable Iron Threading BSP to AS 1722 Part 2 Taper Male/Taper Female. Except Back Nuts and Sockets, which have Parallel Threads Dimensions Generally in accordance with BS143, BS1256 and AS3673 Slight variations may occur where manufacturer's dimensions are used. Finish Hot Dipped Galvanized. Working Pressures (Excluding Flanges) Maximum (Indicative Non Shock Pressures) 1380 kPa Water 1035 kPa Steam, Air, Gas and Oil. Please Note: Alternate pressures may be applicable to Pressure Piping Codes and Industry Regulations. Size Designation For equal fittings, the joint size should be specified once. For reducing fittings with two joint sizes, specify the larger joint first then the smaller joint size. PTFE "Teflon" Tape is the cleanest, easiest, surest way of connecting threaded pipe, fittings or valves.		Back nut 8 - 150		Elbows F/F 15 - 100		Union Flat Seat 8 - 150
		Bends M/F 8 - 150		Elbows M/F 15 - 50		Union Brass Seat 8 - 100
		Bends F/F 8 - 150		Flange Undrilled 15 - 150		Reducing Bush 10x6 150x125
		Bend 45° M/F 15 - 150		Flange Drilled 15 - 150		Reducing Elbow 15x8 50x40
		Cap 8 - 150		Hex Nipple 8 - 150		10x8 100x80
		Cross 10 - 150		Plug 8 - 150		Reducing Socket 10x8 100x80
		Elbow 8 - 150		Socket 8 - 150		Reducing Tee 15x8 100x80
		Reducing Elbow M/F 8 - 100		Equal Tee 8 - 150		Reducing Tee Special 20x15 80x50

No responsibility is taken for incorrect data. All details to be checked at time of placement of order.

Fittings - Butt weld - Black.



Fittings - Butt weld - Seamless Carbon Steel



Butt-weld fittings manufactured to the following specifications listed below..
Tubular sections manufactured from a seamless product except the caps
Butt-weld caps pressed from Gr350 plate.

ANSI B16.9:

Covers dimensions, tolerances and the marking of steel butt-weld pipe fittings, with the exception of short radius elbows and return bends.

ASTM A234-Grade WPB:

Factory wrought carbon - steel, ferritic alloy steel fittings - covers material and physical properties.

Standard weight = Schedule 40

Extra strong = Schedule 80

Due to space limitations, only the Equal Tees and Concentric Reducer dimensions can be shown.

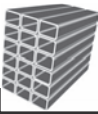
N.B. Butt-weld items above may also be available in Stainless Steel. Please check.

Dimensions

Standard weight & extra strong fittings, with the exception of wall thickness, have common dimensions as below.

Nominal Pipe Size mm	Outside Diameter at Bevel mm	Thickness Std Wt only	Long & Short Radius Elbows			Concentric Reducer Length H	Equal Tees Centre to end		Long Radius Bends		Short Radius Bends		Caps Length E
			Long Radius		Short		Run C	Outlet M	P	K	P	K	
			90 Deg A	45 Deg B	90 Deg D								
15	21.3	2.77	38.1	15.7	-	-	25.4	25.4	76.2	47.8	-	-	25.4
20	26.7	2.78	28.4	11.2	-	38.1	28.4	28.4	57.2	42.9	-	-	25.4
25	33.5	3.38	38.1	22.4	25.4	50.8	38.1	38.1	76.2	55.6	50.8	41.1	38.1
32	42.2	3.56	47.8	25.4	31.8	50.8	47.8	47.8	95.2	69.8	63.5	52.3	38.1
40	48.3	3.68	57.2	28.4	38.1	63.5	57.2	57.2	114.3	82.6	76.2	62.0	38.1
50	60.5	3.91	76.2	35.1	50.8	76.2	63.5	63.5	152.4	106.4	101.6	81.0	38.1
65	73.2	5.16	95.2	44.4	63.5	88.9	76.2	76.2	190.5	131.8	127.0	100.1	38.1
80	88.9	5.49	114.3	50.8	76.2	88.9	85.9	85.9	228.6	158.8	152.4	120.7	50.8
100	114.3	6.02	152.4	63.5	101.6	101.6	104.6	104.6	304.8	209.6	203.2	158.8	63.5
125	141.2	6.55	190.5	79.2	127.0	127.0	124.0	124.0	381.0	261.9	254.0	196.9	76.2
150	168.1	7.11	228.6	95.2	152.4	139.7	142.7	142.7	457.2	312.7	304.8	236.5	88.9
200	218.9	8.11	304.8	127.0	203.2	152.4	177.8	177.8	609.6	414.3	406.4	312.7	101.6
250	273.0	9.27	381.0	158.8	254.0	177.8	215.9	215.9	762.0	517.7	508.0	390.7	127.0
300	323.8	9.53	457.2	190.5	304.8	203.2	254.0	254.0	914.4	619.3	609.6	466.9	152.4
350	355.6	9.53	533.4	222.2	355.6	330.2	279.4	279.4	1066.8	711.2	711.2	533.4	165.1
400	406.4	9.53	609.6	254.0	406.4	355.6	304.8	304.8	1219.2	812.8	812.8	609.6	177.8
450	457.2	9.53	685.8	285.8	457.2	381.0	342.9	342.9	1371.6	914.4	914.4	685.8	203.2
500	508.0	9.53	762.0	317.5	508.0	508.0	381.0	381.0	1524.0	1016.0	1016.0	762.0	228.6
600	609.6	9.53	914.4	381.0	609.6	508.0	431.8	431.8	1828.8	1219.2	1219.2	914.4	266.7

No responsibility can be taken for incorrect data. All details must be checked at time of ordering.



Square Section RHS - Pack Information.

Square Section RHS - AS1163 - C350L0 & GRD350.

Dimension d x b mm x mm	Thickness t mm	End Colour Codes	Mass/m Painted kg/m	Mass/m PreGal kg/m	Lengths/ Bundle 6.5m qty x m	Lengths/ Bundle 8.0m qty x m	Bundle Packed W x H	Bundle Size mm x mm	Bundle Weight t
20 x 20	1.6	Purple	0.873	0.873	96 x 6.5	-	12 x 8	240 x 160	0.567
	2.0	Yellow	1.05	1.05	96 x 6.5	-	12 x 8	240 x 160	0.682
25 x 25	1.6#▲	Purple	1.12	1.12	100 x 6.5	-	10 x 10	250 x 250	0.731
	2.0#▲	Yellow	1.36	1.36	100 x 6.5	-	10 x 10	250 x 250	0.886
	2.5	Pink	1.64	1.64	100 x 6.5	-	10 x 10	250 x 250	1.070
	3.0	Blue	1.89	1.89	100 x 6.5	-	10 x 10	250 x 250	1.230
30 x 30	1.6#▲	Purple	1.38	1.38	-	100 x 8	10 x 10	300 x 300	1.100
	2.0#▲	Yellow	1.68	1.68	-	100 x 8	10 x 10	300 x 300	1.340
	2.5#	Pink	2.03	2.03	-	100 x 8	10 x 10	300 x 300	1.630
	3.0	Blue	2.36	2.36	-	64 x 8	8 x 8	240 x 240	1.210
35 x 35	1.6	Purple	1.63	1.63	-	100 x 8	10 x 10	350 x 350	1.300
	2.0	Yellow	1.99	1.99	-	100 x 8	10 x 10	350 x 350	1.590
	2.5	Pink	2.42	2.42	-	64 x 8	8 x 8	280 x 280	1.240
	3.0	Blue	2.83	2.83	-	64 x 8	8 x 8	280 x 280	1.450
40 x 40	1.6#▲	Purple	1.88	1.88	-	81 x 8	9 x 9	360 x 360	1.220
	2.0#▲	Yellow	2.31	2.31	-	81 x 8	9 x 9	360 x 360	1.490
	2.5#	Pink	2.82	2.82	-	64 x 8	8 x 8	320 x 320	1.440
	3.0#▲	Blue	3.30	3.30	-	64 x 8	8 x 8	320 x 320	1.690
	4.0	Green	4.09	4.09	-	49 x 8	7 x 7	280 x 280	1.600
50 x 50	1.6#▲	Purple	2.38	2.38	-	64 x 8	8 x 8	400 x 400	1.220
	2.0#▲	Yellow	2.93	2.93	-	64 x 8	8 x 8	400 x 400	1.500
	2.5#	Pink	3.60	3.60	-	49 x 8	7 x 7	350 x 350	1.410
	3.0#▲	Blue	4.25	4.25	-	49 x 8	7 x 7	350 x 350	1.660
	4.0	Green	5.35	5.35	-	36 x 8	6 x 6	300 x 300	1.540
	5.0	Orange	6.39	6.39	-	30 x 8	5 x 6	250 x 300	1.530
	6.0	White	7.32	n/a	Lite Oil only	25 x 8	5 x 5	250 x 250	1.460
65 x 65	1.6▲	Purple	3.13	3.13	-	49 x 8	7 x 7	455 x 455	1.230
	2.0#▲	Yellow	3.88	3.88	-	42 x 8	6 x 7	390 x 455	1.300
	2.5#	Pink	4.78	4.78	-	42 x 8	6 x 7	390 x 455	1.610
	3.0#▲	Blue	5.66	5.66	-	36 x 8	6 x 6	390 x 390	1.630
	4.0	Green	7.23	7.23	-	30 x 8	5 x 6	325 x 390	1.740
	5.0	Orange	8.75	8.75	-	25 x 8	5 x 5	325 x 325	1.750
	6.0■	White	10.1	10.1	DuraGal® only	20 x 8	4 x 5	260 x 325	1.620
75 x 75	2.0	Yellow	4.50	4.50	-	30 x 8	5 x 6	375 x 450	1.080
	2.5	Pink	5.56	5.56	-	30 x 8	5 x 6	375 x 450	1.340
	3.0	Blue	6.60	6.60	-	30 x 8	5 x 6	375 x 450	1.580
	3.5	Grey	7.53	7.53	-	25 x 8	5 x 5	375 x 375	1.510
	4.0	Green	8.49	8.49	-	25 x 8	5 x 5	375 x 375	1.700
	5.0	Orange	10.3	10.3	-	20 x 8	4 x 5	300 x 375	1.650
	6.0■	White	12.0	12.0	DuraGal® only	16 x 8	4 x 4	300 x 300	1.540
89 x 89	2.0	Yellow	5.38	5.38	-	20 x 8	4 x 5	356 x 445	0.861
	3.5	Grey	9.07	9.07	-	20 x 8	4 x 5	356 x 445	1.450
	5.0	Orange	12.5	12.5	-	16 x 8	4 x 4	356 x 356	1.600
	6.0	White	14.7	14.7	-	12 x 8	3 x 4	267 x 356	1.410

GRD350 Painted.

▲ GRD 350 PreGal

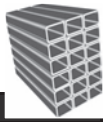
75x75x2.0 RHS has a minimum order quantity.

NB. The corner radii may vary between manufacturers and may not match when end joined to another section.

■ Some items only available in DuraGal® finish.

50x50x6.0 Black RHS is lightly oiled.

Square Section RHS - Pack Information.

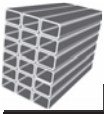


Square Section RHS - AS1163 - C350L0.

Dimension d x b mm x mm	Thickness t mm	End Colour Codes	Mass/m Painted kg/m	Mass/m PreGal kg/m	Lengths/ Bundle 8.0m qty x m	Lengths/ Bundle 12.0m qty x m	Bundle Packed 8m W x H	Bundle Size 8.0m mm x mm	Bundle Weight t - 8.0m	
90 x 90	2.0	Yellow	5.45	DuraGal®	20 x 8	n/a	4 x 5	360 x 450	0.872	
	2.5	Pink	6.74	DuraGal®	20 x 8	n/a	4 x 5	360 x 450	1.079	
100 x 100	2.0	Yellow	6.07	DuraGal®	20 x 8	n/a	4 x 5	400 x 500	0.972	
	2.5	<i>Pink</i>	7.53	7.53	20 x 8	<i>n/a</i>	4 x 5	400 x 500	1.200	
	3.0	Blue	8.96	8.96	20 x 8	16 x 12	4 x 5	400 x 500	1.420	
	4.0	Green	11.6	11.6	16 x 8	12 x 12	4 x 4	400 x 400	1.490	
	5.0	Orange	14.2	14.2	12 x 8	9 x 12	4 x 3	400 x 300	1.370	
	6.0	White	16.7	DuraGal®	12 x 8	9 x 12	4 x 3	400 x 300	1.610	
	8.0	Red	21.4	n/a	9 x 8	6 x 12	3 x 3	300 x 300	1.540	
	9.0	Purple	23.5	n/a	9 x 8	6 x 12	3 x 3	300 x 300	1.690	
	10.0	Yellow	25.6	n/a	n/a	6 x 12	12.0m only.	200 x 300	1.844	
125 x 125	4.0	Green	14.8	n/a	12 x 8	9 x 12	3 x 4	375 x 500	1.420	
	5.0	Orange	18.2	n/a	12 x 8	9 x 12	3 x 4	375 x 500	1.740	
	6.0	White	21.4	n/a	9 x 8	6 x 12	3 x 3	375 x 375	1.540	
	8.0	Red	27.7	n/a	6 x 8	4 x 12	2 x 3	250 x 375	1.330	
	9.0	Purple	30.6	n/a	8 x 8	4 x 12	2 x 4	250 x 500	1.960	
	10.0	Yellow	33.4	n/a	n/a	4 x 12	12.0m only.	250 x 250	1.604	
150 x 150	5.0	Orange	22.1	n/a	9 x 8	6 x 12	3 x 3	450 x 450	1.590	
	6.0	White	26.2	n/a	6 x 8	6 x 12	2 x 3	300 x 450	1.260	
	8.0	Red	33.9	n/a	6 x 8	4 x 12	2 x 3	300 x 450	1.630	
	9.0	Purple	37.7	n/a	6 x 8	4 x 12	2 x 3	300 x 450	1.810	
	10.0	Yellow	41.3	n/a	n/a	2 x 12	12.0m only.	150 x 300	0.992	
200 x 200	5.0	Orange	29.9	n/a	6 x 8	4 x 12	2 x 3	400 x 600	1.440	
	6.0	White	35.6	n/a	4 x 8	4 x 12	2 x 2	400 x 400	1.140	
	8.0	Red	46.5	n/a	4 x 8	2 x 12	2 x 2	400 x 400	1.490	
	9.0	Purple	51.8	n/a	4 x 8	2 x 12	2 x 2	400 x 400	1.660	
	Materials listed below are based on the lengths being supplied in 12.0m only.								12.0m only.	
	10.0	Yellow	57.0	n/a	n/a	2 x 12	1 x 2	200 x 400	1.370	
	12.5	Blue	69.4	n/a	n/a	2 x 12	1 x 2	200 x 400	1.670	
	16.0	Grey	85.5	n/a	n/a	1 x 12	1 x 1	200 x 200	1.030	
	250 x 250	6.0	White	45.0	n/a	n/a	2 x 12	1 x 2	250 x 500	1.080
		8.0	Red	59.1	n/a	n/a	2 x 12	1 x 2	250 x 500	1.420
9.0		Purple	65.9	n/a	n/a	2 x 12	1 x 2	250 x 500	1.580	
10.0		Yellow	72.7	n/a	n/a	2 x 12	1 x 2	250 x 500	1.740	
12.5		Blue	89.0	n/a	n/a	1 x 12	1 x 1	250 x 250	1.070	
16.0		Grey	111.0	n/a	n/a	1 x 12	1 x 1	250 x 250	1.330	
300 x 300	8.0	Red	71.6	n/a	n/a	1 x 12	1 x 1	300 x 300	0.860	
	9.0	Purple	79.6	n/a	n/a	1 x 12	1 x 1	300 x 300	0.955	
	12.5	Blue	109.0	n/a	n/a	1 x 12	1 x 1	300 x 300	1.300	
	16.0	Grey	136.0	n/a	n/a	1 x 12	1 x 1	300 x 300	1.630	
350 x 350	8.0	Red	84.2	n/a	n/a	1 x 12	1 x 1	350 x 350	1.010	
	10.0	Yellow	104.0	n/a	n/a	1 x 12	1 x 1	350 x 350	1.250	
	12.5	Blue	128.0	n/a	n/a	1 x 12	1 x 1	350 x 350	1.540	
	16.0	Grey	161.0	n/a	n/a	1 x 12	1 x 1	350 x 350	1.930	
400 x 400	10.0	Yellow	120.0	n/a	n/a	1 x 12	1 x 1	400 x 400	1.440	
	12.5	Blue	148.0	n/a	n/a	1 x 12	1 x 1	400 x 400	1.770	
	16.0	Grey	186.0	n/a	n/a	1 x 12	1 x 1	400 x 400	2.230	

■ Some items only available in DuraGal® finish.

Items in Italics will require a minimum order quantity.

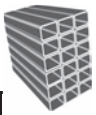


Rectangular Section RHS - Pack Information.

Rectangular Section RHS - AS1163 - C350L0 & GRD350.

Dimension d x b mm x mm	Thickness t mm	End Colour Codes	Mass/m Painted kg/m	Mass/m PreGal kg/m	Lengths/ Bundle 8.0m qty x m	Lengths/ Bundle 12.0m qty x m	Bundle Packing 8.0m W x H	Bundle Size 8.0m mm x mm	Bundle Weight t - 8.0m
50 x 20	1.6■	Purple	1.63	1.63	96 x 8	n/a	8 x 12	400 x 240	1.250
	2.0■	Yellow	1.99	1.99	96 x 8	n/a	8 x 12	400 x 240	1.530
	2.5■	Pink	2.42	2.42	72 x 8	n/a	6 x 12	300 x 240	1.400
	3.0■	Blue	2.83	2.83	72 x 8	n/a	6 x 12	300 x 240	1.630
50 x 25	1.6#▲	Purple	1.75	1.75	96 x 8	n/a	8 x 12	400 x 300	1.350
	2.0#▲	Yellow	2.15	2.15	96 x 8	n/a	8 x 12	400 x 300	1.650
	2.5#▲	Pink	2.62	2.62	72 x 8	n/a	6 x 12	300 x 300	1.510
	3.0#	Blue	3.07	3.07	60 x 8	n/a	5 x 12	250 x 300	1.470
65 x 35	2.0#	Yellow	2.93	2.93	54 x 8	n/a	6 x 9	390 x 315	1.270
	2.5#	Pink	3.60	3.60	54 x 8	n/a	6 x 9	390 x 315	1.560
	3.0#	Blue	4.25	4.25	45 x 8	n/a	5 x 9	325 x 315	1.530
	4.0	Green	5.35	5.35	35 x 8	n/a	5 x 7	325 x 245	1.500
75 x 25	1.6#■	Purple	2.38	2.38	65 x 8	n/a	5 x 13	375 x 325	1.240
	2.0#■	Yellow	2.93	2.93	65 x 8	n/a	5 x 13	375 x 325	1.530
	2.5#■	Pink	3.60	3.60	48 x 8	n/a	4 x 12	300 x 300	1.380
75 x 50	1.6#	Purple	3.01	3.01	42 x 8	42 x 12	6 x 7	450 x 350	1.010
	2.0#▲	Yellow	3.72	3.72	42 x 8	42 x 12	6 x 7	450 x 350	1.250
	2.5#	Pink	4.58	4.58	42 x 8	n/a	6 x 7	450 x 350	1.540
	3.0#▲	Blue	5.42	5.42	35 x 8	24 x 12	5 x 7	375 x 350	1.520
	4.0	Green	6.92	6.92	28 x 8	24 x 12	4 x 7	300 x 350	1.550
	5.0	Orange	8.35	8.35	24 x 8	n/a	4 x 6	300 x 300	1.600
76 x 38	2.5	Pink	4.15	n/a	45 x 8	n/a	5 x 9	380 x 342	1.490
	3.0	Blue	4.90	n/a	40 x 8	n/a	4 x 10	304 x 380	1.570
	4.0	Green	6.23	n/a	32 x 8	n/a	4 x 8	304 x 304	1.590
100 x 50	1.6■	Purple	3.64	3.64	32 x 8	32 x 12	4 x 8	400 x 400	0.932
	2.0	Yellow	4.50	4.50	32 x 8	32 x 12	4 x 8	400 x 400	1.150
	2.5	Pink	5.56	5.56	32 x 8	24 x 12	4 x 8	400 x 400	1.420
	3.0	Blue	6.60	6.60	32 x 8	24 x 12	4 x 8	400 x 400	1.690
	3.5	Grey	7.53	7.53	24 x 8	18 x 12	4 x 6	400 x 300	1.450
	4.0	Green	8.49	8.49	24 x 8	18 x 12	4 x 6	400 x 300	1.630
	5.0	Orange	10.3	10.3	18 x 8	15 x 12	3 x 6	300 x 300	1.490
	6.0■	White	12.0	12.0	15 x 8	12 x 12	3 x 5	300 x 250	1.440
102 x 76	3.5	Grey	9.07	n/a	20 x 8	n/a	4 x 5	408 x 380	1.450
	5.0	Orange	12.5	n/a	16 x 8	n/a	4 x 4	408 x 304	1.600
	6.0	White	14.7	n/a	12 x 8	n/a	3 x 4	306 x 304	1.410
125 x 75	2.0■	Yellow	6.07	6.07	24 x 8	n/a	4 x 6	500 x 450	1.170
	2.5	Pink	7.53	7.53	20 x 8	20 x 12	4 x 5	500 x 375	1.200
	3.0	Blue	8.96	8.96	20 x 8	20 x 12	4 x 5	500 x 375	1.430
	4.0	Green	11.6	11.6	15 x 8	15 x 12	3 x 5	375 x 375	1.400
	5.0	Orange	14.2	14.2	15 x 8	12 x 12	3 x 5	375 x 375	1.710
	6.0■	White	16.7	16.7	12 x 8	6 x 12	3 x 4	375 x 300	1.610
127 x 51	3.5	Grey	9.07	9.07	21 x 8	n/a	3 x 7	381 x 357	1.520
	5.0	Orange	12.5	12.5	18 x 8	n/a	3 x 6	381 x 306	1.800
	6.0	White	14.7	14.7	14 x 8	n/a	2 x 7	254 x 357	1.640
# GRD 350 Painted			▲ GRD 350 PreGal			75x25x2.0 RHS has a minimum order quantity.			
NB. The corner radii may vary between manufacturers and may not match when end joined to another manufacturers section.						100x50x3.5 RHS has a minimum order quantity.			
						■ Some items only available in DuraGal® finish.			
Some bundling details may vary.						Black RHS with 6.0mm wall thickness is lightly oiled.			

Rectangular Section RHS - Pack Information.



Rectangular Section RHS - AS1163 - C350L0

Dimension d x b mm x mm	Thickness t mm	End Colour Codes	Mass/m Painted kg/m	Mass/m PreGal kg/m	Lengths/ Bundle 8.0m qty x m	Lengths/ Bundle 12.0m qty x m	Bundle Packing 8.0m W x H	Bundle Size 8.0m mm x mm	Bundle Weight t - 8.0m	
150 x 50	2.0	Yellow	6.07	6.07	21 x 8	21 x 12	3 x 7	450 x 350	1.020	
	2.5	Pink	7.53	7.53	24 x 8	-	4 x 6	600 x 300	1.450	
	3.0	Blue	8.96	8.96	21 x 8	15 x 12	3 x 7	450 x 350	1.500	
	4.0	Green	11.6	11.6	15 x 8	15 x 12	3 x 5	450 x 350	1.400	
	5.0	Orange	14.2	14.2	15 x 8	9 x 12	3 x 5	450 x 350	1.710	
	6.0	Cream	16.7	16.7	15 x 8	9 x 12	3 x 5	450 x 350	1.440	
150 x 100	4.0	Green	14.8	n/a	12 x 8	9 x 12	3 x 4	450 x 400	1.420	
	5.0	Orange	18.2	n/a	12 x 8	8 x 12	3 x 4	450 x 400	1.740	
	6.0	Cream	21.4	n/a	9 x 8	6 x 12	3 x 3	450 x 300	1.540	
	8.0	Red	27.7	n/a	6 x 8	4 x 12	3 x 2	450 x 200	1.330	
	9.0	Purple	30.6	n/a	6 x 8	4 x 12	3 x 2	450 x 200	1.470	
	10.0	Yellow	33.4	n/a	-	4 x 12	2 x 2	300 x 200	1.600	
152 x 76	5.0	Green	16.4	n/a	12 x 8	12 x 12	3 x 4	456 x 304	1.580	
	6.0	Orange	19.4	n/a	9 x 8	9 x 12	3 x 3	456 x 228	1.400	
200 x 100	4.0	Green	17.9	n/a	8 x 8	6 x 12	2 x 4	400 x 400	1.290	
	5.0	Orange	22.1	n/a	8 x 8	6 x 12	2 x 4	400 x 400	1.590	
	6.0	Cream	26.2	n/a	8 x 8	4 x 12	2 x 4	400 x 400	1.260	
	8.0	Red	33.9	n/a	6 x 8	4 x 12	2 x 3	400 x 300	1.630	
	9.0	Purple	37.7	n/a	6 x 8	4 x 12	2 x 3	400 x 300	1.810	
	10.0	Yellow	41.3	n/a	-	2 x 12	1 x 2	200 x 200	0.990	
250 x 150	5.0	Orange	29.9	n/a	6 x 8	4 x 12	2 x 3	500 x 450	1.440	
	6.0	Cream	35.6	n/a	4 x 8	4 x 12	2 x 2	500 x 300	1.14	
	8.0	Red	46.5	n/a	4 x 8	2 x 12	2 x 2	500 x 300	1.490	
	9.0	Purple	51.8	n/a	4 x 8	2 x 12	2 x 2	500 x 300	1.660	
	Materials listed below are based on the lengths being supplied in 12.0m only.								12.0m only.	
	10.0	Yellow	57.0	n/a	-	2 x 12	-	250 x 300	1.370	
	12.5	Blue	69.4	n/a	-	2 x 12	-	250 x 300	1.670	
	16.0	Grey	85.5	n/a	-	1 x 12	-	250 x 150	1.030	
	300 x 200	6.0	Cream	45.0	n/a	-	2 x 12	-	300 x 400	1.080
		8.0	Red	59.1	n/a	-	2 x 12	-	300 x 400	1.420
10.0		Yellow	72.7	n/a	-	2 x 12	-	300 x 400	1.740	
12.5		Blue	89.0	n/a	-	1 x 12	-	300 x 200	1.070	
16.0		Grey	111	n/a	-	1 x 12	-	300 x 200	1.330	
350 x 250	6.0	Cream	54.4	n/a	-	2 x 12	-	350 x 500	1.310	
	8.0	Red	71.6	n/a	-	2 x 12	-	350 x 500	1.720	
	10.0	Yellow	88.4	n/a	-	1 x 12	-	350 x 250	1.060	
	12.5	Blue	109	n/a	-	1 x 12	-	350 x 250	1.300	
	16.0	Grey	136	n/a	-	1 x 12	-	350 x 250	1.630	
400 x 200	8.0	Red	71.6	n/a	-	2 x 12	-	400 x 400	1.720	
	10.0	Yellow	88.4	n/a	-	1 x 12	-	400 x 200	1.060	
	12.5	Blue	109	n/a	-	1 x 12	-	400 x 200	1.300	
	16.0	Grey	136	n/a	-	1 x 12	-	400 x 200	1.630	
400 x 300	8.0	Red	84.2	n/a	-	1 x 12	-	400 x 300	1.010	
	10.0	Yellow	104	n/a	-	1 x 12	-	400 x 300	1.250	
	12.5	Blue	128	n/a	-	1 x 12	-	400 x 300	1.540	
	16.0	Grey	161	n/a	-	1 x 12	-	400 x 300	1.930	

■ Some items only available in DuraGal® finish.

Items in the shaded area have a minimum order quantity.



Cattle Rails/UniRail - Mass & Bundling Data.

StockRail - AS1163 - C350L0

Dimension d x b mm x mm	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m
53 x 35	1.6 # *	1.77	48 x 6.1
97 x 40	1.6 # *	2.95	21 x 6.1
▲ 115 x 42	2.0	4.27	21 x 6.1
	2.5	5.30	21 x 6.1

▲ 115x42 section is available in both Painted & PreGal finish. The specification for 115x42 may vary between manufacturers.

Denotes those sections that are only available in PreGal finish.

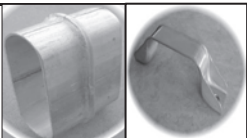
YardRail - AS1163 - C350L0

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 6.0

DuraGal® products are galvanized to AS/NZS 4792 ILG 100. Minimum zinc coating of 100g/m² on the external surface.

* Non-preferred and subject to minimum order requirements.

Rail Joiners & Rail Clips.

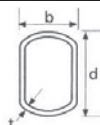


Quick Fit Joiners & Rail Clips.

Suits. Section.	Thickness t - mm	Finish	Quantity per Box. Weight - kg.
SAP Code	Length		
115x42	2.0	PreGal	20 = 6.6kg
191938	75 mm(approx)	GEN-CATTLE-RAIL-JOINER-GAL	
200075	220mm(approx)	GEN-CATTLE-RAIL-CLIP-GAL	

Denotes those sections that are only available in a PreGal finish

UniRail.



UniRail - AS1163 - C350L0

Dimension d x b mm x mm	Thickness t mm	Mass/ metre kg/m	Lengths/ Bundle qty x m
60 x 48	2.0 # *	2.88	36 x 6.1

PreGal finish only.

* Non-preferred and subject to minimum order requirements.

Avoiding White Rust on Zinc Coated Products.

When "Gal" products are being handled, care must be taken to protect the coating. If the "Gal" coating does become damaged, the area should be cleaned and recoated with a zinc rich paint. Commercial products for this purpose may be available at some outlets.

The "Gal" product should be stored in a dry place. This is essential if the product is to be stored in packs and over a long period.

If rust is observed on the product, then it should be removed and a zinc rich paint applied to the damaged area.

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 on some products. It is advisable to always test a small sample of the product to be cleaned, first.

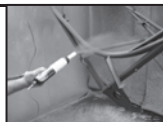
However, heavy red rust must be removed with a wire brush or sandpaper before applying a zinc rich paint to the damaged area.

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 bubbling 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.



It is also recommended by all Hot Dipped galvanizers and Inline galvanizers, that these products be degassed first before the powder coating process. This will eliminate any product appearing with small pin holes or craters in the final powder coated finish.

It is important to note here also, that "Gal" products, are rolled by the various mills as a structural section to AS1163 or as above and are not rolled or offered in any way as a precision tube.

While powder coating of these products may be achieved, any imperfections in the rolled surfaces may be multiplied and as such, the finished powder coated surface finish may not be acceptable to the end user.

If such high quality powder coated finishes are required, it may be necessary to source an alternative product for this purpose.

It is also suggested that if a high quality finish is required, a sample of the powder coated product be tried before attempting a full production run for the end user.

Telescoping RHS Sections.



Square Sections.							
Female - Dimension			Clearance		Male Dimension		
d	b	t	Top	Side	d	b	
mm	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 - Dimension			Clearance		Male Dimension		
d	b	t	Top	Side	d	b	
mm	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.

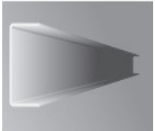
From the chart, select an inner size RHS that comes close to your requirements, allowing the desired clearance.


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 between each tube manufacturers.

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 (90x6m)	-	-	-	-
40 x 40	1.43 (60x6m)	2.20 (39x6m)	-	-	-
45 x 45	1.62 (54x6m)	2.50 (36x6m)	-	-	-
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 mill order quantity of 5 Packs.

Product Description.

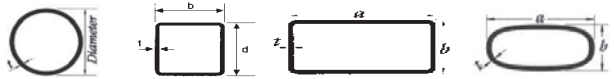
The structural design of these sections of cold-formed angles and channels present new challenges to the structural design engineer as a result of the higher yield stress of the formed section and their more slender cross-section geometry. The Australian/New Zealand standard for cold-formed steel sections AS/NZS4600:1996 has been developed to allow efficient use of these high strength cold-formed sections.

Unequal Angles may be available but would be subject to minimum order requirements and mill rolling programs.

Surface Finish.

A minimum of 100g/m² coating of zinc is applied by in-line galvanizing to a mechanically (shot blasted) and chemically cleaned bright metal (AS 1627.4 Class 3.0) surface. A clear polymer barrier coating protects the galvanizing prior to fabrication. DuraGal® is readily welded. Its thin evenly applied inline galvanized coating ensures minimal welding fumes. No need to preheat, change consumables or welding settings. For further reference, consult the DuraGal® Welding Guide. Some items may require a 5 pack minimum order quantity.

All details are correct at time of printing but may be subject to changes.



Electric Resistance Welded Round & Square Tubing.

Rounds O.D. x wt	Semi Bright		Galvabond		Squares mm x mm x mm	Semi Bright		Galvabond	
	Mass kg/m	Sling Quantity	Mass kg/m	Sling Quantity		Mass kg/m	Sling Quantity	Mass kg/m	Sling Quantity
12.7 x 0.9 (6.05m)	n/a	n/a	0.262	270	12.7x12.7x1.6	0.489	400	0.489	400
12.7 x 1.2	0.34	270	0.395	400	16x16x1.2	0.519	256	0.519	256
12.7 x 1.6	0.438	270	n/a	n/a	16x16x1.6	0.654	256	0.654	256
16.0 x 0.9 (7.40m)	n/a	n/a	0.335	217	19.0x19.0x1.2	0.632	169	0.632	169
16.0 x 1.2 (7.32m)	0.438	217	0.438	217	19.0x19.0x1.6	0.805	169	0.805	169
16.0 x 1.6	0.568	217	0.568	217	22.2x22.2x1.2	0.752	121	0.752	121
19.0 x 0.9 (6.15m)	n/a	n/a	0.402	169	22.2x22.2x1.6	0.966	121	0.966	121
19.0 x 0.9 (7.55m)	n/a	n/a	0.402	169	25.4x25.4x1.2	0.873	100	0.873	100
19.0 x 1.2 (7.55m)	0.527	217	0.527	169	25.4x25.4x1.4	1.002	100	1.002	100
19.0 x 1.6 (6.20m)	0.687	169	n/a	n/a	25.4x25.4x1.6	1.127	100	1.127	142
19.0 x 2.0	0.838	169	n/a	n/a	31.8x31.8x1.2	1.114	64	1.114	64
22.2 x 0.9 (6.15m)	n/a	n/a	0.473	127	31.8x31.8x1.6(7.32m)	1.448	64	1.448	64
22.2 x 1.2	0.621	127	0.621	127	38x38x1.6	1.760	49	1.760	49
22.2 x 1.2 (7.32m)	n/a	n/a	0.621	127					
22.2 x 1.4	0.781	127	n/a	n/a					
22.2 x 1.6	0.813	127	n/a	n/a					
22.2 x 1.6 (6.20m)	n/a	n/a	0.813	127					
25.4 x 1.2 (7.32m)	n/a	n/a	0.716	91					
25.4 x 1.6	0.939	91	n/a	n/a					
25.4 x 2.0 (7.32m)	1.154	91	n/a	n/a					
28.6 x 1.2	0.811	61	n/a	n/a					
28.6 x 1.6	1.065	61	n/a	n/a					
31.8 x 1.2	0.906	61	0.906	61					
31.8 x 1.6	1.192	61	1.192	61					
31.8 x 1.6 (6.98m)	n/a	n/a	1.192	61					
38.0 x 1.2	1.089	37	n/a	n/a					
38.0 x 1.6	1.436	37	n/a	n/a					
38.0x2.0	1.776	37	n/a	n/a					
41.3 x 1.6	n/a	n/a	1.566	37					
41.3 x 1.6 (6.30m)	1.566	37	n/a	n/a					
44.5 x 1.2 (6.20m)	n/a	n/a	1.281	37					
44.5 x 1.6	1.693	37	n/a	n/a					
47.6 x 1.6	1.815	19	n/a	n/a					
47.6 x 1.6 (7.32m)	n/a	n/a	1.815	19					
51.0 x 1.2	1.474	53	n/a	n/a					
51.0 x 1.2 (6.20m)	n/a	n/a	1.474	53					
51.0 x 1.6	1.949	19	n/a	n/a					
57.0 x 1.6 (6.40m)	2.186	19	2.186	19					
57.0 x 2.0	2.713	19	2.713	19					
63.5 x 1.6	2.442	19	2.442	19					
63.5 x 2.0	3.033	19	3.033	19					
76.2 x 1.6	2.944	19	2.944	19					
76.2 x 2.0	3.660	19	3.660	19					

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

Standard lengths are 6.100 metres, unless noted.
Minimum order quantities may apply.

Electric Resistance Welded Rectangular Tubing.

Rectangles mm x mm x mm	Semi Bright		Galvabond	
	Mass kg/m	Sling Quantity	Mass kg/m	Sling Quantity
25.4x12.7x1.2	0.634	200	0.634	200
25.4x12.7x1.6	0.808	200	0.808	200
35x19x1.6	1.207	96	1.207	96
38x25.4x1.6	1.443	70	1.443	70

Semi Bright tubing has a smooth surface finish and may be ideal for chrome plating

Other sections and lengths may be available on request.
Minimum order quantities may apply.

Electric Resistance Welded Oval Tubing.

Flat Sided Ovals mm x mm x mm	Semi Bright		Galvabond	
	Mass kg/m	Sling Quantity	Mass kg/m	Sling Quantity
31.8x16x1.6 (6.40m)	0.9985	128	0.9985	128
51x16x1.6 (7.32m)	1.4766	80	1.4766	80

All detail are correct at time of printing.

Sizes and/or quantities may change without prior notice.

Standard tolerances is +/- 8% of specified wall thicknesses.
Length tolerance supplied are -0mm + 50mm.

Some many and typical uses include:-

Tent Poles, Coach Framing, Luggage & Shopping Trolleys, Outdoor Furniture,
Safety Ladders, Fencing, Handrailing & Balustrade, Children's Play Equipment.



Cold Formed Angles.

Cold Formed Angles - Black or Zincform G300. (Supplied in 6m lengths)

Product Code	B - D - t mm mm mm	Black kg/m	Zincform kg/m
TA2512*	25x25x1.2	n/a	0.466
TA2725	27x27x2.5	0.979	1.000
TA3225	32x22x2.5	0.979	1.000
TA4030	40x40x3.0	1.760	1.790
TA4630	46x35x3.0	1.780	1.790
TA5016	50x50x1.6	n/a	1.250
TA5019	50x50x1.9	n/a	1.514

* May be subject to minimum order requirements.

Product Code	B - D - t mm mm mm	Black kg/m	Zincform kg/m
TA5130	51x30x3.0	1.780	1.790
TA5130-25*	51x25x3.0	1.625	n/a
TA6430*	64x64x3.0	n/a	2.985
TA7512	75x75x1.2	n/a	1.440
TA7516	75x75x1.6	n/a	1.934
TA7630*	76x51x3.0	n/a	3.320
TA8025*	80x70x2.5	n/a	2.993
TA8525*	85x50x2.5	n/a	2.694



Cold Formed Nesting Channels.

Cold Formed Nesting Channels - G450 Galvaspan. (May be available in 6m, 7.5m & 9m lengths).

Product Code	B - D - t mm mm mm	Black kg/m	Galv kg/m
TN10415	104x60x1.5	n/a	2.600
TN15415	154x70x1.5	n/a	3.440
TN15419	154x70x1.9	n/a	4.330
TN15719	157x68x1.9	n/a	4.4021

Product Code	B - D - t mm mm mm	Black kg/m	Galv kg/m
TN20419	204x70x1.9	n/a	5.090
TN20719	207x70x1.9	n/a	5.0746
TN20924*	209x70x2.4	n/a	6.4546

* May be subject to minimum order requirements.

Nesting channels are design to nest with the Textor C Purlins to allow a range of structural joints to be readily formed.

It must be noted that these nesting channels may not accept other manufactured purlins.



Cold Formed "C" Purlins.

Cold Formed "C" Purlins. (May be available in 6m, 7.5m & 9m lengths).

Product Code	B - D - L - t mm mm mm mm	Galv kg/m
TP10012*	100 x 51 x 15 x 1.2	2.11
TP10015	100 x 51 x 15 x 1.5	2.60
TP10019	100 x 51 x 15 x 1.9	3.24
TP15012*	150 x 64 x 18 x 1.2	2.90
TP15015	150 x 64 x 18 x 1.5	3.58
TP15019	150 x 64 x 18 x 1.9	4.48
TP15024	150 x 64 x 18 x 2.4	5.61

C Purlins length range is 6.0m, 7.5m & 12.2m.

Product Code	B - D - L - t mm mm mm mm	Galv kg/m
TP20015	200 x 76 x 18 x 1.5	4.47
TP20019	200 x 76 x 18 x 1.9	5.61
TP20024	200 x 76 x 20 x 2.4	7.09
TP25015	250 x 76 x 20 x 1.5	5.12
TP25019	250 x 76 x 20 x 1.9	6.43
TP25024	250 x 76 x 20 x 2.4	8.04
TP30024	300 x 89 x 20 x 2.4	9.50
TP30030	300 x 89 x 20 x 3.0	11.72

* May be subject to minimum order requirements.



Rolled Edge Stockyard Rail.

Rolled Edge Stockyard Rail - 6.0m.

Product Code	B - D - t mm mm mm	Black kg/m	Galv kg/m
TSR 18516	185x19x1.6	2.8511	2.9170
TSR 18520	185x19x2.0	3.5325	3.5978

Product Code	B - D - t mm mm mm	Black kg/m	Galv kg/m
TSR 23516	235x19x1.6	3.4791	3.5595
TSR 23520	235x19x2.0	4.3175	4.3973

All details are correct at time of printing but may be subject to changes.

Cold Formed Plain Channels.



Cold Formed Plain Channels - Black or Zincform. (Supplied in 6m lengths).

Product Code	B - D - t mm mm mm	Black kg/m	Zincform kg/m
TC01916	19x12x1.6	0.474	0.490
TC02516	25x13x1.6	0.574	0.587
TC03420-50*	34x50x2.0	n/a	2.105
TC03420-70*	34x70x2.0	n/a	2.777
TC03725*	37x60x2.5	n/a	3.093
TC03816	38x16x1.6	0.813	0.840
TC05016*	50x40x1.6	n/a	1.675
TC05116	51x15x1.6	0.951	0.972
TC05120	51x25x2.0	1.613	1.613
TC05130	51x25x3.0	2.130	2.160
TC05516*	55x50x1.6	n/a	1.960
TC05716*	54Dx25x1.6	1.256	n/a
TC05720*	57x45x2.0	2.198	2.238
TC05725	57x26x2.5	1.980	2.010
TC06425	64x22x2.5	1.960	2.000
TC06815#*	65Dx30x1.5 #	n/a	1.500
TC07620*	76x38x2.0	n/a	2.244

Product Code	B - D - t mm mm mm	Black kg/m	Zincform kg/m
TC07630	76x37x3.0	3.280	3.340
TC07815#*	75Dx30x1.5#	n/a	1.619
TC8015#	80x33x1.5	n/a	1.689
TC08330	83x34x3.0	3.310	3.350
TC08930	89x31x3.0	3.310	3.350
TC09520*	95x25x2.0	2.198	n/a
TC09530	95x35x3.0	3.640	3.700
TC10230	102x55x3.0	4.740	4.800
TC10230-34*	102x34x3.0	3.744	n/a
TC10330	103x31x3.0	3.640	3.700
TC12730	127x49x3.0	5.050	5.110
TC15010*	150x50x1.0	n/a	2.045
TC15230	152x50x3.0	5.690	5.750
TC15230-76*	152x76x3.0	5.860	n/a
TC30030*	300x76x3.0	10.5504	n/a

Indicates G450 material.

* May be subject to minimum order requirements.

NB. Size range may change or vary without prior notice.

Cold Formed Lipped Channels.



Cold Formed Lipped Channels - Black or Zincform. (Supplied in 6m lengths).

Product Code	B - D - t mm mm mm	Black kg/m	Zincform kg/m
TL05116	51x35x9x1.6	1.610	1.680
TL06420	64x38x10x2.0	2.310	2.350
TL06425	64x38x10x2.5	2.820	2.910
TL07512-G	76x44x11x1.2	n/a	1.707
TL07512-Z*	76x44x11x1.2	n/a	1.707
TL07620	76x44x11x2.0	2.710	2.760
TL07625	76x44x11x2.5	3.330	3.370
TL08920	89x51x12x2.0	3.170	3.220
TL08930	89x51x15x3.0	4.710	4.760
TL10225	102x51x14x2.5	4.230	4.390

Product Code	B - D - t mm mm mm	Black kg/m	Zincform kg/m
TL10230	102x51x16x3.0	5.060	5.250
TL12725	127x51x14x2.5	4.670	4.740
TL12730	127x51x16x3.0	5.560	5.850
TL15230	152x64x16x3.0	6.850	6.930
TL17830	178x70x17x3.0	7.790	7.880
TL20325*	203x70x15x2.5	7.000	7.100
TL20330	203x76x18x3.0	8.710	9.070
TL25430	254x89x23x3.0	10.780	11.200

G Indicates G500 material.

Z Indicates Zincanneal material.

* May be subject to minimum order requirements.

NB. Size range may change or vary without prior notice.

Product Specifications.



Designation	HU300S (Black)	Galvaspan G450	Galvaspan G500	Galvaspan G550	Zincform G300	Zincalume G550, G550U
10.5	AS 1594	AS 1397	AS 1397	AS 1397	AS 1397	AS 1397
Yield Strength	300 MPa min	450 MPa min	500 MPa min	550 MPa min	300 MPa min	550 MPa min
Tensile Strength	400 MPa min	510-600 MPa	600-670 MPa	620-680 MPa	340 MPa min	680-780 MPa
Coating Class	None	Z200	Z200	Z200	Z275	AZ150



Flat Mild Steel.

Square Edged Flats - AS/NZS 3679.1-300			
Size mm x mm	Mass kg/m	Metres/tonne m/t	Approx Lens per bundle
10 x 3 *	0.241	4149.4	964 = 1t
<i>These flats supplied as 4.0 metres</i>			
13 x 3 *	0.313	3194.9	798 = 1t
x 5 *	0.468	2136.8	478 = 1t
x 6 *	0.6276	1593.4	398 = 1t
Referred to as Small Flats. May have rounded edges.			
16 x 3 *	0.386	2590.7	647 = 1t
x 5 *	0.643	1555.2	388 = 1t
<i>Sizes 16x8 and above, supplied in 6m lengths.</i>			
16 x 8	1.030	970.9	160 = 0.989t
20 x 3 #	0.483	2070.4	346 = 1.002t
x 5	0.805	1242.2	208 = 1.004t
x 6	0.966	1035.2	173 = 1.002t
x 10	1.609	621.5	208 = 2.008t
25 x 3 #	0.604	1655.6	277 = 1.003t
x 5	1.006	994.0	332 = 2.004t
x 6	1.207	828.5	278 = 2.013t
x 8	1.609	621.5	208 = 2.008t
x 10	2.012	497.0	166 = 2.004t
x 12	2.414	414.3	138 = 1.999t
32 x 3 #	0.772	1295.3	219 = 1.015t
x 5	1.287	777.0	265 = 2.047t
x 6	1.545	647.2	215 = 1.993t
x 8	2.060	485.4	162 = 2.002t
x 10	2.575	388.3	129 = 1.993t
x 12	3.090	323.6	108 = 2.002t
40 x 3 #	0.966	1035.2	173 = 1.002t
x 5	1.609	621.5	208 = 2.008t
x 6	1.931	517.9	173 = 2.005t
x 8	2.575	388.3	129 = 1.993t
x 10	3.219	310.7	103 = 1.989t
x 12	3.862	258.9	87 = 2.016t
x 16	5.150	194.2	66 = 2.039t
x 20	6.437	155.4	52 = 2.008t
50 x 3 #	1.207	828.5	280 = 2.027t
x 5	2.012	497.0	166 = 2.004t
x 6	2.414	414.3	139 = 2.013t
x 8	3.219	310.7	104 = 2.008t
x 10	4.023	248.6	83 = 2.004t
x 12	4.828	207.1	69 = 1.999t
x 16	6.437	155.4	52 = 2.008t
x 20	8.046	124.3	42 = 2.028t
x 25	10.058	99.4	34 = 2.052t
* Round Edge Flats.		# Items may be imported.	

Square Edged Flats - AS/NZS 3679.1-300			
Size mm x mm	Mass kg/m	Metres/tonne m/t	Approx Lens per bundle
65 x 3 #	1.569	637.3	213 = 2.005t
x 5	2.615	382.4	127 = 1.993t
x 6	3.138	318.7	107 = 2.015t
x 8	4.184	239.0	80 = 2.008t
x 10	5.230	191.2	65 = 2.040t
x 12	6.276	159.3	53 = 1.996t
x 16	8.368	119.5	41 = 2.059t
x 20	10.460	95.6	35 = 2.197t
75 x 5	3.017	331.5	110 = 1.991t
x 6	3.621	276.2	92 = 1.999t
x 8	4.828	207.1	71 = 2.057t
x 10	6.035	165.7	55 = 1.991t
x 12	7.242	138.1	46 = 1.999t
x 16	9.656	103.6	34 = 1.970t
x 20	12.069	82.9	28 = 2.028t
x 25	15.087	66.3	23 = 2.029t
90 x 6	4.345	230.1	78 = 2.033t
x 8	5.793	172.6	59 = 2.051t
x 10	7.242	138.1	46 = 1.999t
x 12	8.690	115.1	38 = 1.981t
100 x 5	4.023	248.6	85 = 2.052t
x 6	4.828	207.1	71 = 2.057t
x 8	6.437	155.4	52 = 2.008t
x 10	8.046	124.3	43 = 2.076t
x 12	9.656	103.6	36 = 2.086t
x 16	12.874	77.7	26 = 2.008t
x 20	16.093	62.1	22 = 2.124t
x 25	20.116	49.7	17 = 2.052t
110 x 6	5.180	193.1	64 = 2.034t
x 8	7.081	141.2	48 = 2.039t
x 10	8.851	113.0	39 = 2.071t
x 12SLTF	10.621	94.2	34 = 2.167t
130 x 5 SLTF	5.230	191.2	65 = 2.040t
x 6 SLTF	6.276	159.3	55 = 2.071t
x 8	8.368	119.5	41 = 2.059t
x 10	10.460	95.6	33 = 2.071t
x 12	12.552	79.7	28 = 2.109t
x 16	16.736	59.8	20 = 2.008t
x 20	20.920	47.8	16 = 2.008t
x 25	26.150	38.2	13 = 2.040t
All lens/bundle are approx.		SLTF = Slit Flats.	

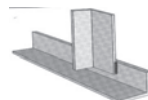
Flat Mild Steel.



Square Edge Flats - AS/NZS 3679.1-300			
Size mm x mm	Mass kg/m	Metres/ tonne	Approx Lens per bundle
Flats are supplied in 6m lengths.			
150 x 5 SLTF	6.035	165.7	56 = 2.028t
x 6 SLTF	7.242	138.1	46 = 1.999t
x 8	9.656	103.6	36 = 2.086t
x 10	12.069	82.9	29 = 2.100t
x 12	14.483	69.0	23 = 1.999t
x 16	19.311	51.8	16 = 2.202t
x 20	24.139	41.4	14 = 2.028
x 25	30.173	33.1	11 = 1.991t
x 50	60.346	16.6	5 = 1.810t
180 x 6 SLTF	8.690	115.1	40 = 2.086t
x 10	14.483	69.0	24 = 2.086t
x 12	17.380	57.5	20 = 2.086t
x 16 #	23.173	43.2	11 = 1.529t
x 20 #	28.967	34.5	12 = 2.086t
x 25 #	36.208	27.6	9 = 1.955t
200 x 6 SLTF	9.656	103.6	35 = 2.086t
x 8 SLTF	12.874	77.7	26 = 2.008t
x 10	16.093	62.1	21 = 2.086t
All lens/bundle are approx.		SLTF - Slit flats.	

Square Edge Flats - AS/NZS 3679.1-300			
Size mm x mm	Mass kg/m	Metres/ tonne	Approx Lens per bundle
Flats are supplied in 6m lengths.			
200 x 12	19.311	51.8	13 = 2.008t
x 16	25.748	38.8	14 = 2.163t
x 20	32.185	31.1	11 = 2.124t
x 25	40.231	24.9	8 = 1.931t
250 x 6 SLTF	12.069	82.9	28 = 2.028t
x 8 SLTF	16.093	62.1	23 = 2.221t
x 10 SLTF	20.116	49.7	18 = 2.172t
x 12 SLTF	24.139	41.4	16 = 2.317t
x 16 #	32.185	31.1	11 = 2.124t
x 20 #	40.231	24.9	8 = 1.931t
x 25 #	50.289	19.9	7 = 2.112t
300 x 6 SLTF	14.483	69.0	24 = 2.086t
x 8 SLTF	19.311	51.8	19 = 2.202t
x 10 SLTF	24.139	41.4	16 = 2.317t
x 12 SLTF	28.967	34.5	12 = 2.086t
x 16 #	38.622	25.9	10 = 2.317t
x 20 #	48.278	20.7	8 = 2.317t
x 25 #	60.347	16.6	7 = 2.535t
# Wide flats are flame cut from plate & meet AS/NZ 3678-250.			

Unequal Angles.

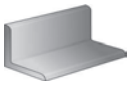


Unequal Angles - AS/NZS 3679.1-300			
Size mm x mm x mm	Mass kg/m	Metres/tonne m/t	Approx Lens per bundle
Merchant Angles @ 9.000m			
65 x 50 x 5	4.02	248.8	56 = 2.026t
x 50 x 6	5.16	193.8	49 = 2.276t
x 50 x 8	6.59	151.7	34 = 2.017t
75 x 50 x 5	4.40	227.3	51 = 2.020t
x 50 x 6	5.66	176.7	34 = 1.732t
x 50 x 8	7.23	138.3	31 = 2.018t
100 x 75 x 6	7.98	125.3	28 = 2.006t
x 75 x 8	10.30	97.1	22 = 2.040t
x 75 x 10	12.40	80.6	18 = 2.009t

Unequal Angles - AS/NZS 3679.1-300			
Size mm x mm x mm	Mass kg/m	Metres/tonne m/t	Approx Lens per bundle
125 x 75 x 6	9.16	109.2	24 = 1.979t
x 75 x 8	11.80	84.7	19 = 2.018t
x 75 x 10	14.20	70.4	16 = 2.045t
x 75 x 12	17.70	56.5	13 = 2.071t

Structural Angles @ 12.000m			
Size mm x mm x mm	Mass kg/m	Metres/tonne m/t	Approx Lens per bundle
150 x 90 x 8	14.30	69.9	27 = 4.633t
x 90 x 10	17.30	57.8	24 = 4.980t
x 90 x 12	21.60	46.3	18 = 4.670t
x 90 x 16	27.90	35.8	14 = 4.690t
150 x 100x10	18.00	55.6	22 = 4.750t
x 100x12	22.50	44.4	18 = 4.860t

NB: All angle bundling details are approximate and based on the lengths indicated. i.e. 9.0m & 12.0m.



Equal Angles.

Equal Angles - AS/NZS 3679.1-300			
Size mm x mm x mm	Mass kg/m	Metres/ tonne	Approx Lens per bundle
* Imported section @ 6.0m. To SS400.			
20 x 20 x 3*	0.87	1149.4	194 = 1.013t
Merchant Angles @ 7.5m.			
25 x 25 x 3	1.12	892.9	247 = 2.075t
x 25 x 5	1.65	606.1	166 = 2.054t
x 25 x 6	2.08	480.8	127 = 1.981t
30 x 30 x 3	1.35	740.7	196 = 1.985t
x 30 x 5	2.01	497.5	136 = 2.050t
x 30 x 6	2.56	390.6	110 = 2.112t
40 x 40 x 3	1.83	546.4	153 = 2.100t
x 40 x 5	2.73	366.3	99 = 2.027t
x 40 x 6	3.50	285.7	76 = 1.995t
Merchant Angles @ 9.0m.			
45 x 45 x 3	2.06	485.4	117 = 2.169t
x 45 x 5	3.10	322.6	81 = 1.990t
x 45 x 6	3.97	251.9	56 = 2.001t
50 x 50 x 3	2.31	432.9	99 = 2.058t
x 50 x 5	3.48	287.4	65 = 2.040t
x 50 x 6	4.46	224.2	49 = 1.967t
x 50 x 8	5.68	176.1	39 = 1.994t
55 x 55 x 5	3.84	260.4	63 = 2.177t
x 55 x 6	4.93	202.8	49 = 2.174t
65 x 65 x 5	4.56	219.3	48 = 1.971t
x 65 x 6	5.87	170.4	40 = 2.114t
x 65 x 8	7.51	133.2	32 = 2.164t
x 65 x 10	9.02	110.9	24 = 1.950t

Equal Angles - AS/NZS 3679.1-300			
Size mm x mm x mm	Mass kg/m	Metres/ tonne	Approx Lens per bundle
Merchant Angles @ 9.0m.			
75 x 75 x 5	5.27	189.8	42 = 1.992t
x 75 x 6	6.81	146.8	33 = 2.022t
x 75 x 8	8.73	114.5	26 = 2.042t
x 75 x 10	10.50	95.2	21 = 1.985t
90 x 90 x 6	8.22	121.7	27 = 1.998t
x 90 x 8	10.60	94.3	21 = 2.004t
x 90 x 10	12.70	78.7	20 = 2.286t
100 x 100 x 6	9.16	109.2	24 = 1.979t
x 100 x 8	11.80	84.7	19 = 2.018t
x 100 x 10	14.20	70.4	20 = 2.286t
x 100 x 12	17.70	56.5	15 = 2.390t

Structural Angles @ 12.0m.			
Size mm x mm x mm	Mass kg/m	Metres/ tonne	Approx Lens per bundle
125 x 125 x 8	14.90	67.1	26 = 4.650t
x 125 x 10	18.00	55.6	20 = 4.750t
x 125 x 12	22.50	44.4	18 = 4.860t
x 125 x 16	29.10	34.4	14 = 4.890t
150 x 150 x 10	21.90	45.7	18 = 4.730t
x 150 x 12	27.30	36.6	15 = 4.910t
x 150 x 16	35.40	28.2	11 = 4.670t
x 150 x 19	42.10	23.8	9 = 4.550t
200 x 200 x 13	40.00	25.0	10 = 4.800t
x 200 x 16	48.70	20.5	8 = 4.680t
x 200 x 18	54.40	18.4	7 = 4.570t
x 200 x 20	60.10	16.6	6 = 4.330t
x 200 x 26	76.80	13.0	5 = 4.610t



Square Mild Steel & Billets.

Square Mild Steel - AS/NZS 3679.1-300 (Supplied in 6m)			
Size mm	Mass kg/m	Metres/tonne m/t	Approx Lens per bundle
10	0.805	1242.2	415 = 2.004t
12	1.159	862.8	291 = 2.023t
16	2.060	485.4	163 = 2.015t
19	2.905	344.2	116 = 2.022t
20	3.219	310.7	104 = 2.008t
25	5.029	198.8	66 = 1.991t
40	12.874	77.7	26 = 1.965t

Corner radius on Squares is approximately 1.0mm

Light Billets - AS1442 - 1040 (Supplied in 6m)			
Size mm	Mass kg/m	Metres/tonne m/t	Corner radius
40	12.874	77.7	1.0mm
AS1442 - U1040/U1045 (Billets)			
40	12.874	77.7	1.0mm
45	16.294	61.4	5.5mm
50	20.115	49.7	6.5mm
63	31.936	31.3	8.0mm
75	45.260	22.1	9.5mm

Larger square sections may need to be cut from a thick plate!

Round Mild Steel & Large Rounds.



Round Mild Steel - AS/NZS 3679.1-300			
Diameter mm	Mass kg/m	Metres/tonne m/t	Approx Lens per bundle
6	0.233	4291.8	664 = 1.000t
8	0.394	2538.1	423 = 1.000t
10	0.632	1582.3	530 = 2.009t
12	0.910	1098.9	367 = 2.004
14	1.239	807.1	271 = 2.014
16	1.618	618.0	206 = 1.999t
18	2.047	488.5	168 = 2.064t
20	2.528	395.6	132 = 2.002t
22	3.059	326.9	110 = 2.019t
24	3.640	274.7	93 = 2.031t
27	4.607	217.1	73 = 2.018t
30	5.687	175.8	60 = 2.047t
33	6.882	145.3	50 = 2.064t
36	8.190	122.1	42 = 2.064t
39	9.611	104.0	36 = 2.076t
42	11.147	89.7	30 = 2.006t
45	12.796	78.1	26 = 1.996t
48	14.559	68.7	23 = 2.009
50	15.798	63.3	22 = 2.085t
56	19.817	50.5	17 = 2.021t
60	22.749	44.0	15 = 2.047t
65	26.698	37.5	14 = 2.243t
75	35.545	28.1	10 = 2.133
80	40.442	24.7	10 = 2.427t
90	51.185	19.5	7 = 2.150t

Typically supplied in 6.000 metre lengths.

6 & 8mm supplied as HDLC Wires - AS1302

Large Rounds - 1020 / L1045		
Diameter mm	Mass kg/m	Metres/tonne m/t
100	63.191	15.825
110	75.383	13.266
120	89.712	11.147
130	105.287	9.498
140	122.108	8.189
150	140.175	7.134
160	159.488	6.270
170	180.047	5.554
180	201.852	4.954
190	224.903	4.446
200	249.200	4.013
210	274.743	3.640
220	301.532	3.316
230	329.567	3.034
240	358.848	2.787
250	389.375	2.568
260	421.148	2.374
280	488.432	2.047
300	560.700	1.783
310	598.703	1.670
320	637.952	1.568
340	720.188	1.389
360	807.408	1.239
380	899.612	1.112
400	996.800	1.003

Large rounds may not be stocked at all locations.

Larger Rounds are supplied in random lengths.

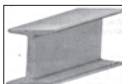
Railway Line.



Rail - Unpunched							
Nominal Size	Mass kg/m	Overall Height - mm	Base Width - mm	Head Width - mm	Head Depth-mm	Web Thickness mm	metres/tonne
10	10.1	66.67	66.67	34.13	18.26	6.35	99.0
15	15.2	79.37	79.37	42.86	22.22	8.33	65.8
22	22.3	93.66	93.66	50.80	26.99	10.72	44.8
30	30.1	107.95	107.95	60.33	30.95	12.3	33.2
41	40.8	136.5	127.0	63.5	40.5	13.1	24.5
50	50.6	154.0	127.0	70.0	45.0	15.0	19.8
53	53.0	157.1	146.0	70.0	46.0	14.7	18.9
60	60.6	170.0	146.0	70.0	49.0	16.5	16.5
68	67.5	185.7	152.4	74.6	49.2	17.5	14.8

Rails are not normally a stocked item - Pack quantities and lead times will apply.

Taper Flanged Beams.



Taper Flanged Beams - AS/NZS 3679.1 - 300 (Imported)

Designation Size mm	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne	Length/Bundle Based on 13.80m
* 100 x 45	7.2	100	45	6.0	4.0	7.0	138.89	21 = 2.087t
* 125 x 65	13.1	125	65	8.5	5.0	8.0	76.34	11 = 1.989t

* Now an imported section - lead times may apply.

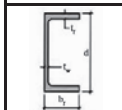


Taper Flanged Channel.

Taper Flanged Channel.

Designation Size mm	Section Mass kg/m	Section Depth d mm	Flange Width b_f mm	Flange Thickness t_f mm	Web Thickness t_w mm	Root Radius mm	m/tonne	Length/Bundle Based on 6.10m
* 50 x 25	4.46	50	25	5.0	4.0	6.0	224.22	73 = 2.014t

* An imported section - lead times may apply.



(Merchant) Parallel Flanged Channel.

Merchant Parallel Flange Channels - AS/NZS3679.1-300

Designation Size mm	Section Mass kg/m	Section Depth d mm	Flange Width b_f mm	Flange Thickness t_f mm	Web Thickness t_w mm	Root Radius mm	m/tonne	Length/Bundle Based on 9.0m
75 x 40	5.92	75	40	6.1	3.8	8.0	168.92	40 = 2.132t
100 x 50	8.33	100	50	6.7	4.2	8.0	120.05	24 = 1.799t
125 x 65	11.9	125	65	7.5	4.7	8.0	84.03	20 = 2.142t

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



(Light) Parallel Flanged Channel.

Light Structural Parallel Flange Channels - AS/NZS3679.1-300

Designation Size mm	Section Mass kg/m	Section Depth d mm	Flange Width b_f mm	Flange Thickness t_f mm	Web Thickness t_w mm	Root Radius mm	m/tonne	Length/Bundle Based on 12.0m
150 x 75	17.7	150	75	9.5	6.0	10.0	56.50	20 = 4.248t
180 x 75	20.9	180	75	11.0	6.0	12.0	47.85	16 = 4.013t
200 x 75	22.9	200	75	12.0	6.0	12.0	43.67	16 = 4.397t
230 x 75	25.1	230	75	12.0	6.5	12.0	39.84	16 = 4.819t
250 x 90	35.5	250	90	15.0	8.0	12.0	28.17	8 = 3.408t

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



(Heavy) Parallel Flanged Channel.

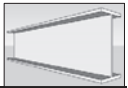
Heavy Structural Parallel Flange Channels - AS/NZS3679.1-300

Designation Size mm	Section Mass kg/m	Section Depth d mm	Flange Width b_f mm	Flange Thickness t_f mm	Web Thickness t_w mm	Root Radius mm	m/tonne	Length/Bundle Based on 15.0m
300 x 90	40.1	300	90	16.0	8.0	14.0	24.94	8 = 4.812t
380 x 100	55.2	380	100	17.5	10.0	14.0	18.12	6 = 4.968t

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

Universal Beams.

Length per bundle details may be subject to change at any time.

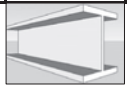


Universal Beams - AS/NZS3679.1-300 (Light & Heavy)

Designation Size mm	Term.	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne	Lens/bundle Based on 12.0m
150 UB	Light Beams	14.0	150	75	7.0	5.0	8.0	71.43	24 = 4.032t
		18.0	155	75	9.5	6.0	8.0	55.56	20 = 4.320t
180 UB		16.1	173	90	7.0	4.5	8.9	62.11	20 = 3.860t
		18.1	175	90	8.0	5.0	8.9	55.25	20 = 4.344t
200 UB		22.2	179	90	10.0	6.0	8.9	45.05	16 = 4.262t
		18.2	198	99	7.0	4.5	11.0	54.95	22 = 4.805t
		22.3	202	133	7.0	5.0	8.9	44.84	18 = 4.820t
		25.4	203	133	7.8	5.8	8.9	39.37	16 = 4.685t
250 UB		29.8	207	134	9.6	6.3	8.9	33.56	12 = 4.290t
		25.7	248	124	8.0	5.0	12.0	38.91	16 = 4.935t
		31.4	252	146	8.6	6.1	8.9	31.85	12 = 4.522t
310 UB		37.3	256	146	10.9	6.4	8.9	26.81	10 = 4.476t
	32.0	298	149	8.0	5.5	13.0	31.25	12 = 4.608t	
	40.4	304	165	10.2	6.1	11.4	24.75	10 = 4.848t	
360 UB	46.2	307	166	11.8	6.7	11.4	21.65	8 = 4.436t	
	44.7	352	171	9.7	6.9	11.4	22.37	7 = 3.755t	
	50.7	356	171	11.5	7.3	11.4	19.72	7 = 4.259t	
410 UB	56.7	359	172	13.0	8.0	11.4	17.64	7 = 4.763t	
	53.7	403	178	10.9	7.6	11.4	18.62	6 = 3.867t	
	59.7	406	178	12.8	7.8	11.4	16.75	6 = 4.299t	
460 UB	Heavy Beams	67.1	454	190	12.7	8.5	11.4	14.90	6 = 4.832t
		74.6	457	190	14.5	9.1	11.4	13.40	5 = 4.476t
		82.1	460	191	16.0	9.9	11.4	12.18	5 = 4.926t
530 UB		82.0	528	209	13.2	9.6	14.0	12.20	5 = 4.920t
		92.4	533	209	15.6	10.2	14.0	10.82	4 = 4.436t
610 UB		101	602	228	14.8	10.6	14.0	9.90	3 = 3.636t
		113	607	228	17.3	11.2	14.0	8.85	3 = 4.060t
		125	612	229	19.6	11.9	14.0	8.00	3 = 4.500t

Universal Columns.

Length per bundle details may be subject to change at any time.



Universal Columns - AS/NZS3679.1-300 (Light & Heavy)

Designation Size mm	Term.	Section Mass kg/m	Section Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Root Radius mm	m/tonne	Lens/bundle Based on 12.0m
100 UC	Light Columns.	14.8	97	99	7.0	5.0	10.0	67.57	24 = 4.263t
150 UC		23.4	152	152	6.8	6.1	8.9	42.74	15 = 4.212t
		30.0	158	153	9.4	6.6	8.9	33.33	12 = 4.320t
		37.2	162	154	11.5	8.1	8.9	26.88	10 = 4.464t
200 UC	46.2	203	203	11.0	7.3	11.4	21.65	8 = 4.436t	
	52.2	206	204	12.5	8.0	11.4	19.16	6 = 3.759t	
	59.5	210	205	14.2	9.3	11.4	16.81	6 = 4.284t	
250 UC	Heavy Columns.	72.9	254	254	14.2	8.6	14.0	13.72	4 = 3.500t
		89.5	260	256	17.3	10.5	14.0	11.17	4 = 4.296t
310 UC		96.8	308	305	15.4	9.9	16.5	10.33	3 = 3.485t
		118	315	307	18.7	11.9	16.5	8.47	3 = 4.248t
		137	321	309	21.7	13.8	16.5	7.30	3 = 4.932t
		158	327	311	25.0	15.7	16.5	6.33	2 = 3.792t



LiteSteel™ beam - DuoSteel 380/450L0 - AS/NZS 4600 - 1996.(AZ+ coating)

LSB Section Designation d b _t t mm mm mm	Mass/m & Dimension				Length Availability Ex Mill (pack quantities)				
	Mass kg/m	Height mm	Width mm	Gauge mm	6.0 m	6.5 m	8.0 m	12.0 m	14.5 m
300 x 75 x 3.0	14.51	300	75	3.0	-	✓	✓	✓	✓
300 x 75 x 2.5	12.22	300	75	2.5	-	✓	✓	✓	✓
300 x 60 x 2.0	8.80	300	60	2.0	-	-	-	✓	-
250 x 75 x 3.0	13.32	250	75	3.0	-	✓	✓	✓	✓
250 x 75 x 2.5	11.23	250	75	2.5	-	✓	✓	✓	✓
250 x 60 x 2.0	8.00	250	60	2.0	-	✓	✓	✓	✓
200 x 60 x 2.5	8.86	200	60	2.5	-	✓	✓	✓	✓
200 x 60 x 2.0	7.21	200	60	2.0	-	✓	✓	✓	✓
200 x 45 x 1.6	4.95	200	45	1.6	✓	-	-	✓	-
150 x 45 x 2.0	5.31	150	45	2.0	✓	-	-	✓	-
150 x 45 x 1.6	4.32	150	45	1.6	✓	-	-	✓	-



The LSB conforms to the Australian Standards AS/NZS 4600: 1996 Cold-Formed Steel Structures.

May not be a stocked item in any locations - Please check with your local outlet.



Comparison Details.

UB / TFB				LSB				Ratio LSB / UB		
Designation	Mass			Designation	Mass			Mass	I _x	Φ _b M _{SX}
	kg/m	I _x 10 ⁶ mm ⁴	Φ _b M _{SX} kNm		kg/m	I _x 10 ⁶ mm ⁴	Φ _b M _{SX} kNm			
				d b _t t mm mm mm						
200 UB 25.4	25.4	23.6	74.6	300 x 75 x 3.0	14.51	24.6	66.3	0.57	1.04	0.89
200 UB 22.3	22.3	21.0	65.3	300 x 75 x 3.0	14.51	24.6	66.3	0.65	1.17	1.02
200 UB 22.3	22.3	21.0	65.3	300 x 75 x 2.5	12.22	20.8	56.1	0.55	0.99	0.86
200 UB 18.2	18.2	15.8	51.8	300 x 75 x 2.5	12.22	20.8	56.1	0.67	1.31	1.08
200 UB 18.2	18.2	15.8	51.8	250 x 75 x 3.0	13.32	15.9	51.4	0.73	1.00	0.99
180 UB 22.2	22.2	15.3	56.2	300 x 75 x 2.5	12.22	20.8	56.1	0.55	1.36	1.00
180 UB 22.2	22.2	15.3	56.2	250 x 75 x 3.0	13.32	15.9	51.4	0.60	1.04	0.91
180 UB 18.1	18.1	12.1	45.2	300 x 75 x 2.5	12.22	20.8	56.1	0.68	1.72	1.24
180 UB 18.1	18.1	12.1	45.2	300 x 60 x 2.0	8.80	14.5	39.1	0.49	1.20	0.87
180 UB 18.1	18.1	12.1	45.2	250 x 75 x 2.5	11.23	13.4	43.5	0.62	1.11	0.96
180 UB 16.1	16.1	10.6	39.8	300 x 60 x 2.0	8.80	14.5	39.1	0.55	1.37	0.98
180 UB 16.1	16.1	10.6	39.8	250 x 75 x 2.5	11.23	13.4	43.5	0.70	1.27	1.09
150 UB 18.0	18.0	9.05	38.9	300 x 60 x 2.0	8.80	14.5	39.1	0.49	1.60	1.01
150 UB 18.0	18.0	9.05	38.9	250 x 75 x 2.5	11.23	13.4	43.5	0.62	1.48	1.12
150 UB 18.0	18.0	9.05	38.9	250 x 60 x 2.0	8.00	9.38	30.4	0.44	1.04	0.78
150 UB 14.0	14.0	6.66	29.3	250 x 60 x 2.0	8.00	9.38	30.4	0.57	1.41	1.04
150 UB 14.0	14.0	6.66	29.3	200 x 60 x 2.5	8.86	6.74	27.3	0.63	1.01	0.93
125 TFB	13.1	4.34	23.1	200 x 60 x 2.5	8.86	6.74	27.3	0.68	1.55	1.18
125 TFB	13.1	4.34	23.1	200 x 60 x 2.0	7.21	5.50	22.3	0.55	1.27	0.96
100 TFB	7.20	1.46	9.82	150 x 45 x 1.6	4.32	1.84	9.96	0.60	1.26	1.01

Welded Beams.



Welded Beams - AS/NZS3679.1-300

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	Standard Lengths For Range
700	115	692	250	16	10	660	8.70	9.0m
	130	700	250	20	10	660	7.69	
	150	710	250	25	10	660	6.67	
	173	713	275	28	10	660	5.78	
800	122	792	250	16	10	760	8.20	10.5m
	146	800	275	20	10	760	6.85	
	168	810	275	25	10	760	5.95	
	192	816	300	28	10	760	5.21	
900	175	900	300	20	12	860	5.71	12.0m
	218	910	350	25	12	860	4.59	
	257	916	400	28	12	860	3.89	13.5m
	282	924	400	32	12	860	3.55	
1000	215	1000	300	20	16	960	4.65	15.0m
	258	1010	350	25	16	960	3.88	
	296	1016	400	28	16	960	3.38	15.0m
	322	1024	400	32	16	960	3.11	
1200	249	1170	275	25	16	1120	4.02	16.5m
	278	1170	350	25	16	1120	3.60	
	317	1176	400	28	16	1120	3.15	
	342	1184	400	32	16	1120	2.92	18.0m
	392	1184	400	32	16	1120	2.55	
	423	1192	500	36	16	1120	2.36	
	455	1200	500	40	16	1120	2.20	

Welded Columns.



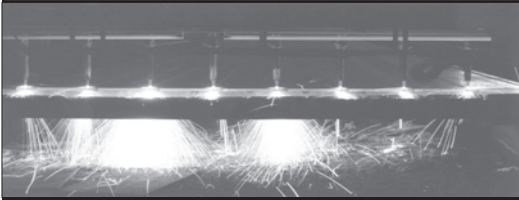
Welded Columns - AS/NZS3679.1-300

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	Standard Lengths For Range
350	197	331	350	28	20	275	5.08	9.0m
	230	339	350	32	25	275	4.35	
	258	347	350	36	28	275	3.88	
	280	355	350	40	28	275	3.57	
400	144	382	400	16	16	350	6.94	10.5m
	181	390	400	20	20	350	5.52	
	212	400	400	25	20	350	4.72	12.0m
	270	414	400	32	25	350	3.70	
	303	422	400	36	28	350	3.30	13.5m
	328	430	400	40	28	350	3.05	
500	361	430	400	40	40	350	2.77	15.0m
	228	490	500	20	20	450	4.39	
	267	500	500	25	20	450	3.75	16.5m
	290	506	500	28	20	450	3.45	
	340	514	500	32	25	450	2.94	18.0m
	383	472	500	36	32	400	2.61	
	414	480	500	40	32	400	2.42	
	440	480	500	40	40	400	2.27	



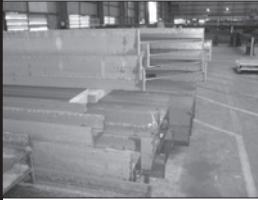
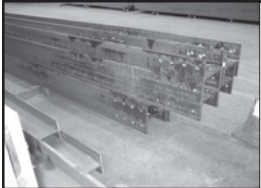
Processing Options.

Processing Options.



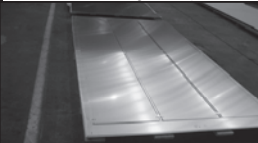
Plasma Cutters ▶

Machine	Capacity
QHIGHDEF Plasma	1 - 25mm thick
QPLN01 Plasma	3 - 40mm thick
PLAS2 - 2 Head Plasma	3 - 16mm thick
PLAS3 - 1 Head Plasma	3 - 16mm thick
XGOLDPL Plasma	1 - 16mm thick



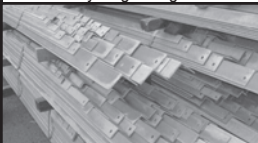
Beamline Cutters - Angle cuts, Square cuts & Drilling. ▶

Machine	Steel Capacity
Ficpe	Angle 75x50x5 and up drilled and mitred Beams 900WB175 Columns 400WC361 Channels 75mm and up Rails 22kg and up



Bandsaws - Single cuts to Pack Sawing. ▶

Machine	Steel Capacity
BSAW260	Single length cut
BSAW500	Mainly pack cutting Pipe & RHS
BSAW600	Only pack cutting Pipe & RHS
BSWA700	Heavy single length cut



◀ Profile Cutters - Oxy & Plasma.

Machine	Steel Capacity
Oxy4 - 4 Head Plasma/Oxy	20 - 160mm thick
Oxy5 - 6 Head Oxy	12 - 250mm thick
Oxy6 - 6 Head Oxy	12 - 180mm thick
XGOLDOXY	12 - 180mm thick
PLAS2 - 2 Head Oxy	16 - 180mm thick



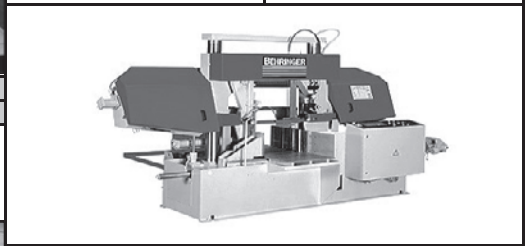
◀ Beamline Cutters - Cutting & Drilling.

Machine	Steel Capacity
CSAW900 Trenjaeger	Angle - 150x90x16mm Beams 900WB175 Columns 310UC158 Channels 380mm
BDRILL1 Wagner (Beamline)	Angle - 150x90x16mm Beams 1000WB322 Columns 400WC361 Channels 75mm and up



◀ Aluminium Routers.

Machine	Steel Capacity
Router	1 - 32mm thick



◀ Anglemaster.

Machine	Steel Capacity
ANGLEPCH	Crop & Punch 4 - 12mm thick

Northgate options shown - other centres options may differ.
If in doubt about any machine's capacity, please ask.

Plain Plates.



Plain Plate - AS/NZS 3678-250

Thickness mm	Mass/m ² kg/m ²	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.		847.80	1130.40	-
70	549.5006	They can be supplied as cut to		989.10	1318.80	-
80	628.0002	length from coil or sheared to a		1130.40	1507.20	-
90	706.5007	particular servicable length.		-	1695.60	-
100	785.0002	-	-	1413.00	1884.00	-
110	863.5007	-	-	1554.30	2072.40	-
120	942.0002	May not be available in 6.0m lengths.		1695.60	2260.80	-
140	1099.00	-	-	1978.20	2637.60	-
150	1177.5010	-	-	2119.50	2826.00	-

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

Special length and width of plates can normally be cut from larger plates or may be rolled to size. However a minimum tonnage will apply.

This tonnage would be the product of a heat or subject to a mill enquiry - approx 50 tonnes.

Requests for Test Certificates must be placed with original order or a surcharge may apply.



Coil Plates.

Coil Plate - AS/NZS 1594 - HA250.

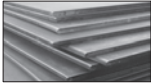
Thickness mm	Mass/m ² kg/m ²	Coil widths per thickness - please check all details prior to ordering.		
		910 - 1550mm	1765 - 1800mm	Advantages of coil plate.
3	23.5502	Typically 1200mm wide	Typically 1800mm	Some locations store coils of steel which may be cut to a specified length. An example is a plate cut to 6.90m x 1.800m x 3mm.
4	31.40	coils are stored.	wide coil stored.	
5	39.2498	Also 1500mm may be	These coils are supplied	Other sizes may be cut also and minimum quantities do apply. Please check with your outlet.
6	47.10	stored.	as mill widths.	
8	62.80		n/a	
10	78.5005	These coils supplied	n/a	
12	94.20	as mill widths.	n/a	



Grade 350 Plates.

Plain Plate - AS/NZS 3678-350

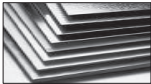
Thickness mm	Mass/m ² kg/m ²	Kilograms per Linear metre of Plate Width.			Plate lengths available	
		2400	3000	3100	2400	3000
5	39.2498	94.20	117.75	n/a	6.0m & 9.0m,	9.0m
6	47.10	113.04	n/a	n/a	9.6m	n/a
8	62.80	150.72	n/a	n/a	9.6m	n/a
10	78.5005	188.40	n/a	243.35	9.6m	9.6m x 3.10m
12	94.20	226.08	n/a	292.02	9.6m	9.6m x 3.10m
16	125.60	301.44	n/a	389.36	9.6m	9.6m x 3.10m
20	157.001	376.80	n/a	486.70	9.6m	9.6m x 3.10m
25	196.2508	471.00	n/a	n/a	9.6m	n/a
32	251.2001	602.88	n/a	n/a	9.6m	n/a
40	314.001	753.60	n/a	n/a	7.6m	n/a
50	392.5006	942.00	n/a	n/a	7.6m	n/a
60	471.0011	1130.40	n/a	n/a	7.6m	n/a
70	549.5006	1318.80	n/a	n/a	6.0m	n/a
80	628.0002	1507.20	n/a	n/a	5.5m	n/a



Pressure Vessel Plates.

Boiler Plate - SA/AS 1548-7-430R

Thickness mm	Mass/m ² kg/m ²	Kilograms per Linear metre of Plate Width.			Plate lengths available	
		2400	3000	3100	2400	3100
5	39.2498	94.20	n/a	n/a	9.0m	n/a

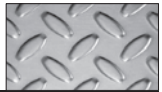


Boiler Plates.

Boiler Plate - SA/AS 1548-7-460R

Thickness mm	Mass/m ² kg/m ²	Kilograms per Linear metre of Plate Width.			Plate lengths available	
		2400	3000	3100	2400	3100
6	47.10	n/a	n/a	n/a	n/a	9.6m
8	62.80	n/a	n/a	194.68	n/a	9.6m
10	78.5005	n/a	n/a	243.35	n/a	9.6m
12	94.20	n/a	n/a	292.02	n/a	9.6m
16	125.60	n/a	n/a	389.36	n/a	9.6m
20	157.001	n/a	n/a	486.70	n/a	9.6m
25	196.2508	n/a	n/a	608.38	n/a	9.6m
32	251.2001	n/a	n/a	778.72	n/a	9.6m
40	314.001	753.60	n/a	n/a	9.6m	n/a
50	392.5006	942.00	n/a	n/a	9.6m	n/a
60	471.0011	1130.40	n/a	n/a	6.0m	n/a
70	549.5006	1318.80	n/a	n/a	6.0m	n/a
80	628.0002	1507.20	n/a	n/a	5.2m	n/a
90	706.5000	1695.60	n/a	n/a	5.2m	n/a
100	785.0000	1884.00	n/a	n/a	5.2m	n/a

Coil Floor Plates.



Coil Floor Plate - Untrimmed Mill Edge AS/NZS 1594 - HA250 (Cut ex Coil).

Plate Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width			Advantages of coil floor plate.
		1200	1500	1800	
2.1	18.535	22.24	-	-	Some locations store coil floor plate that may be cut to a specified length. Minimums apply to custom cut lengths. An example is 6.3mx1200mmx3mm.
3.0	25.55	30.66	-	-	
5.0	41.25	49.50	61.88	-	
6.0	49.10	58.92	73.65	88.38	
8.0	64.80	-	97.20	-	

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

The above sizes of Floor Plate coils, may weigh approximately 14 tonnes each.



Floor Plates.

Floor Plate - AS/NZS 3678 - 250




Plate Thickness mm	Mass kg/m ²	Kilograms per Linear metre of Plate Width		Standard plate lengths.
		1800		
8.0	64.80	116.64		6.0m
10.0	80.5005	144.90		6.0m
12.0	96.20	173.16		6.0m

Quenched & Tempered Plates.

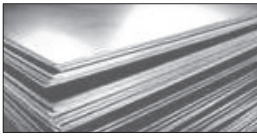


Quenched & Tempered Plates.

Plate Thickness mm	Mass kg/m ²	Bisalloy® 80	Bisalloy® 400	Bisalloy® 500
5	39.2498	1525 x 8000	-	-
5	39.2498	-	2485 x 8000	-
6	47.10	1525 x 8000	-	-
6	47.10	2485 x 8000	2485 x 8000	-
8	62.80	2485 x 8000	2485 x 8000	-
10	78.5005	2485 x 8000	2485 x 8000	-
10	78.50	3100 x 8000	-	-
12	94.20	2485 x 8000	2485 x 8000	2485 x 8000
16	125.60	-	2485 x 8000	2485 x 8000
20	157.0010	-	2485 x 8000	2485 x 8000
25	196.251	-	2485 x 8000	2485 x 8000
32	251.2001	-	2485 x 8000	2485 x 8000
40	314.001	-	2485 x 8000	2485 x 8000
50	392.5006	-	2485 x 8000	-
60	471.0011	-	2485 x 8000	-







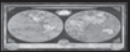
 Typical uses:-	Tensile Strength Typical - 830MPa	Tensile Strength Typical - 1320MPa	Tensile Strength Typical - 1640MPa
	 	Lining equipment Transport equipment Mining equipment Excavator buckets Bridges	Scw conveyors Dump truck wear liners Deflector plates Chutes Cutting edges

Other grades may be available for your needs upon request - minimums apply.



Structural Steel Plates.

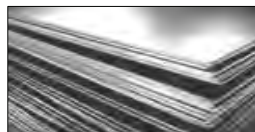
International Standard Comparisons.








							MPa
Structural Plate - International Standards.							
Australian AS 3678	European * EN10025	British * BS 4360	German * DIN17100	Japanese JIS	American ASTM	International ISO 630	Tensile Strength MPa
			St33				290
200							300
					A283A	Fe310-0	310
				G3101-SS330			330
	S235JR	40A, B, C, D	St37-2 St37-3		A283B	Fe360A, B, C, D	360
					A283C		380
				G3101-SS400 G316-SM400 A, B, C	A36, A573-400		400
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					A573-485		480
	S355JR S355JD S355J2G3	50A, B, C, D	S152-3	G3101-SS490 G3106-SM490 A, B, C G3106-SM490 YA, YB		Fe510 B, C, D	490
450 450L15				G3106-SM520 B, C	A572-415	Fe510 B, C, D	520
				G3101-SS540			540

1. This table indicates the approximate relationship between Australian grades and their International counterparts.
2. Grades are shown in their increasing tensile strength order. In the case of American ASTM Standards some grades are shown in increasing yield strength (YS) order, as their position in the hierarchy is different when based on the yield strength compared to tensile strength (TS).
- * En10025 has replaced BS4360 and DIN17100 Standards.
3. For grades with suffix letters C, D on British, European and International Standards, B, C, on Japanese Standards and suffix numbers 2 and 3 on German Standards, the appropriate Australian alternative is the nearest L15 grade of the equivalent strength level (ie High or Medium).
4. Grades readily available are highlighted in black.
5. The grade/s within the same shaded band show generally acceptable alternatives, provided relevant design factors are considered.
6. This graph is designed for customers to determine the nearest available Australian grade to an international specification.

Boiler Plate.

International Standard Comparisons.




MPa							
Boiler Plate - International Standards.							
Tensile Strength (MPa)	Australian AS 3678	European * EN10025	British * BS 4360	German * DIN17100	Japanese JIS	American ASTM	International ISO 630
310						A285-A	
340						A285-B	
360		2-P235GH	151-360 161-360 164-360	H1			P235
380						A285-C A442-55 A515-55 A516-55	
390		3-P275N#					
400			151-400 161-400 164-400 224-400	H11	G3103-SB410 G3115-SPV235 G3118-SGV410 G3126-SLA235	A682-A	P265
410		2P265GH			G3118-SGV410		P265
415						A515-65 A518-60#	
430	7-430						
440					G3126-SLA325		
450					G3118-SB450 G3118-SGC450	A515-65 A516-65	
460	7-460	2-P295GH#				A662-B*	P290
480					G3103-SB480 G3118-SGV480		
490	7-490		224-490	19Mn6	G3115-SPV315	A515-70 A516-70# A662-C	P315
490	5-490	3-P355GH#			G3126-SLA360	A537-C11 A737-B A841	P315
510		2-P355GH#					P355
520					G3115-SPV355	A299 A455 A738-A	

1. This table indicates the approximate relationship between Australian grades and their International counterparts
2. Grades are shown in their increasing tensile strength order. AS1548-5-490 & equivalent grades have a higher minimum yield strength requirement than the corresponding AS1548-7-490 & equivalent grades.
3. Grade equivalence shown is based on room temperature tensile properties only.
4. Grades readily available are highlighted in black.
5. It may be possible to substitute readily available grades for international grades outside the designated band shown, provided relevant design factors are considered.
6. # These overseas grades may be available subject to enquiry.

Hot Rolled Sheet.

Hot Rolled Sheet - AS/NZS1594

HA250 - Hot Rolled Structural Steel with a minimum yield strength of 250 MPa, with good ductility.				Typical Uses:- Structural sections, light poles, guard rails & gas cylinders.			
Properties of steel base.				Thickness mm	Width mm	Length mm	Sheets per tonne.
Mechanical Properties.	Guaranteed.	The size range listed is typical of the stocks at most outlets. Some outlets may carry coil Hot Rolled that can be sheared to sheet sizes. Minimum Quantities will apply.		1.6	900	1800	49.15
Longitudinal tensile.	250 min			1.6	900	2400	36.86
Yield strength, MPa				1.6	900	3000	29.49
Tensile strength, MPa	350 min			1.6	1200	1800	36.86
Elong on 80mm, %	20 min	1.6	1200	2400	27.65		
		< 3.0 mm	1.6	1200	3000	22.12	
> 3.0 mm	24 min	1.6	1200	3600	18.43		
180 degree transverse bend (L axis)		2.0	900	1800	39.32		
		< 5.0 mm	2.0	900	2400	29.49	
		> 5.0 mm	2.0	900	3000	23.59	
		2.0	1200	1800	29.49		
	Chemical Properties	Guaranteed Maximum %	Typical %	2.0	1200	2400	22.12
	Carbon (C)	0.20	0.09 - 0.17	2.0	1200	3000	17.69
	Silicon (Si)	0.35	0.005 - 0.015	2.0	1200	3600	14.74
	Manganese (Mn)	1.20	0.5 - 0.75	2.5	1200	1800	23.59
	Phosphorus (P)	0.04	0.005 - 0.025	2.5	1200	2400	17.69
	Sulphur (S)	0.03	0.005 - 0.015	2.5	1200	3000	14.15
	Aluminium (Al)	0.10	0.015 - 0.060	3.0	900	1800	26.21
	Nitrogen (N)	-	-	3.0	900	2400	19.66
	Titanium (Ti)	0.04	-	3.0	1200	1800	19.66
	Niobium (Nb)	0.01	-	3.0	1200	2400	14.74
(Nb) + Vanadium (V)	0.03	-	3.0	1500	1800	15.73	
				3.0	1500	2400	11.80
				3.0	1500	3000	9.44
				3.0	1500	3600	7.86

Brightform® Sheet.

Brightform® Sheet - Pickled & Oiled.

Brightform® Sheet - Pickled, skin-passed low carbon steel with a good surface for bending and moderate drawing and pressing.				Typical Uses:- Tubing, shelving, simple pressing, hidden appliance panels.			
Properties of steel base.				Thickness mm	Width mm	Length mm	Sheets per tonne.
Mechanical Properties.	Guaranteed.	Surface scale will adversely affect die performance. Therefore the use of a Pickled & Oiled sheet for die pressing is recommended.		1.6	1210	2400	27.42
Transverse tensile	-			1.6	1510	2400	21.97
Yield strength, MPa				1.6	1510	3000	17.58
Tensile strength, MPa	-			2.0	910	1800	38.89
Elong on 80mm, %	32 min	2.0	910	2400	29.16		
		180 degree transverse bend (L axis)	0 t	2.0	1210	2400	21.93
		2.0	1510	2400	17.58		
		2.0	1510	3600	11.72		
		3.0	1210	1800	19.50		
		3.0	1210	2400	14.62		

Oiling improves the corrosion resistance of Brightform®, but the product is best used within three months.

HR Lyten Sheet - HW350.

Cold Rolled Sheet.



Hot Rolled Lyten Sheet - (AS 1594 HW350.)			
Thickness mm	Width mm	Length mm	Sheet Count per tonne.
3.0	1200	2400	14.74
3.0	1200	2485	14.24
3.0	1200	3000	11.8

Cold Rolled Sheet - (AS 1595.)			
Thickness mm	Width mm	Length mm	Sheet Count per tonne.
1.15	1220	2400	37.78
Other thicknesses may be available.			

The "W" indicates that this product is a weathering sheet.



COLORBOND® Sheet - AS 1397 (G300 AZ150.)

Colorbond® Sheet - (AS 1397 G300 AZ150.)			
Thickness mm	Width mm	Length mm	Sheet Count per tonne.
Standard Colours.			
0.55	1200	2400	76.02
0.55	1200	3600	50.90
Non-Standard Colours. Minimum order = 1 tonne.			

Colorbond® Sheet - (AS 1397 G300 AZ150.)			
Thickness mm	Width mm	Length mm	Sheet Count per tonne.
Surfmist® colour only.			
1.0	1200	2100	48.69
1.0	1200	2400	42.60
1.0	1200	2700	37.87
1.0	1200	3000	34.08
1.2	1200	2100	40.83
1.2	1200	2400	35.72
1.2	1200	2700	31.75

COLORBOND® SWP Sheet.

COLORBOND® HGA Sheet.

Signwhite - (AS 1397 G300 AZ100.)			
Thickness mm	Width mm	Length mm	Sheet Count per tonne.
0.55	900	1800	133.61
0.55	900	2400	100.20
0.55	1200	1800	100.20
0.55	1200	2400	75.16
0.55	1200	2700	66.80
0.55	1200	3000	60.13
0.55	1200	3600	50.10

Superior White - (AS 1397 G300 AZ100.)			
Thickness mm	Width mm	Length mm	Sheet Count per tonne.
0.80	1200	2400	63.67
0.80	1200	3000	42.93
This product was formally called Appliance White.			

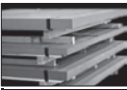
ZINCALUME® Sheet (AS 1397 G300 AZ150).



Zincalume® Sheet (AS1397 G300 AZ150.)			
Thickness mm	Width mm	Length mm	Sheet Count per tonne.
0.55	1200	1800	103.17
0.55	1200	2400	77.38
0.55	1200	3000	61.9
0.80	1200	2400	53.83

Zincalume® Sheet (AS1397 G300 AZ150.)			
Thickness mm	Width mm	Length mm	Sheet Count per tonne.
1.00	1200	2400	43.29
1.00	1200	2700	38.48
1.00	1200	3000	34.64
1.20	1220	2400	35.60
1.20	1220	3000	28.49

All items are listed as a guide only and are subject to change without prior notice.



Zincanneal® Sheet.

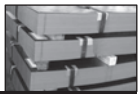
Zincanneal® Sheet - (AS 1397 G2 ZF100)

Thickness mm	Width mm	Length mm	Sheet Count per tonne.	Typical uses:- Washing machines, acoustic ceiling tiles, door frames, switchboards, non-exposed automotive panels.										
0.55	915	1800	136.5	<p>Zincanneal® sheet is a matte hot-dipped Zinc/Zinc-Iron alloy-coated commercial forming steel with a skin-passed smooth surface suitable for direct-on painting.</p> <p>Some powdering of the coating may occur with severe deformation.</p> <p>The size range listed is typical of stocks at most outlets.</p>										
0.55	915	2400	102.38											
0.55	1220	2400	76.78											
0.55	1220	3000	62.45											
0.75	1220	1800	75.67											
0.75	1220	2400	56.75											
0.75	1220	3000	45.40											
0.75	1220	3600	37.83											
				<table border="1"> <thead> <tr> <th>Mechanical Properties</th> <th>Minimum.</th> </tr> </thead> <tbody> <tr> <td>Elongation on 80mm ($\geq 0.60\text{mm}$) %</td> <td>27</td> </tr> <tr> <td>180° transverse bend (L axis)</td> <td>0t</td> </tr> </tbody> </table>	Mechanical Properties	Minimum.	Elongation on 80mm ($\geq 0.60\text{mm}$) %	27	180° transverse bend (L axis)	0t				
Mechanical Properties	Minimum.													
Elongation on 80mm ($\geq 0.60\text{mm}$) %	27													
180° transverse bend (L axis)	0t													
0.95	1200	1800	61.01	<table border="1"> <thead> <tr> <th>Chemical Properties</th> <th>Guaranteed Maximum %</th> </tr> </thead> <tbody> <tr> <td>Carbon (C)</td> <td>0.10</td> </tr> <tr> <td>Phosphorus (P)</td> <td>0.03</td> </tr> <tr> <td>Manganese (Mn)</td> <td>0.45</td> </tr> <tr> <td>Sulphur (S)</td> <td>0.03</td> </tr> </tbody> </table>	Chemical Properties	Guaranteed Maximum %	Carbon (C)	0.10	Phosphorus (P)	0.03	Manganese (Mn)	0.45	Sulphur (S)	0.03
Chemical Properties	Guaranteed Maximum %													
Carbon (C)	0.10													
Phosphorus (P)	0.03													
Manganese (Mn)	0.45													
Sulphur (S)	0.03													
0.95	1200	2400	45.76											
0.95	1200	3000	36.61											
0.95	1200	3600	29.88											
1.15	900	2400	50.55	<table border="1"> <thead> <tr> <th>Tolerances</th> </tr> </thead> <tbody> <tr> <td>Widths are mill edge widths.</td> </tr> <tr> <td>This material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion.</td> </tr> </tbody> </table>	Tolerances	Widths are mill edge widths.	This material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion.							
Tolerances														
Widths are mill edge widths.														
This material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion.														
1.15	1200	1800	50.55											
1.15	1200	2400	37.91											
1.15	1200	3000	30.33											
1.15	1200	3600	25.28											
1.55	900	1800	50.19	<table border="1"> <thead> <tr> <th colspan="2">1 tonne coils as below.</th> </tr> <tr> <th>Thickness mm</th> <th>Width mm</th> </tr> </thead> <tbody> <tr> <td>0.55</td> <td>915</td> </tr> </tbody> </table>	1 tonne coils as below.		Thickness mm	Width mm	0.55	915				
1 tonne coils as below.														
Thickness mm	Width mm													
0.55	915													
1.55	900	2400	37.65											
1.55	1200	1800	37.65											
1.55	1200	2400	28.23											
1.55	1200	3000	22.59											
1.55	1200	3600	18.82											
1.55	1500	2400	22.58											
1.55	1500	3000	18.07											
1.95	1200	1800	29.99											
1.95	1200	2400	22.49											
1.95	1200	3000	17.99											


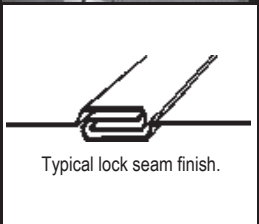
A typical use of zincanneal sheet.



Galvabond® Sheet.



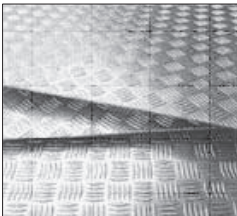
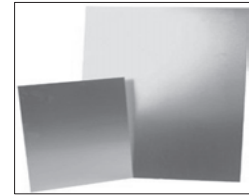
Galvabond® Sheet - AS 1397 G2 Z275

Typical uses:- Air-conditioning ducts, Meter Boxes, Trailers, Cable Trays, Scaffold Planks, Feeder Troughs, Tubes & Pipes.		Thickness mm	Width mm	Length mm	Sheet Count per tonne.
Galvabond® G2 steel is a hot dipped zinc-coated, commercial forming steel with a spangled surface, suitable for general manufacturing. The product is suitable for moderate drawing applications and is suitable for lock seaming up to 1.6mm thick. The size range listed is typical of the stocks at most outlets.		0.40	1220	2400	99.57
		0.55	915	1800	131.76
		0.55	915	2400	98.82
		0.55	1200	1800	100.48
		0.55	1200	2400	75.36
		0.55	1200	3000	60.29
		0.55	1200	3600	50.24
		0.55	1500	2400	60.29
		0.55	1500	3000	48.23
		Mechanical Properties		Minimum.	
Elongation on 80mm (≥ 0.60 mm) %	27	0.75	915	1800	98.28
180° transverse bend (L axis)	0t	0.75	915	2400	73.71
Pittsburgh lock seam (≤ 1.6 mm)	Pass	0.75	1200	1800	74.95
		0.75	1200	2400	56.21
		0.75	1200	3000	44.97
		0.75	1200	3600	37.47
		0.75	1500	2400	44.97
		0.75	1500	3000	35.97
Chemical Properties.	Guaranteed Maximum %	0.95	900	1800	79.68
Carbon (C)	0.1	0.95	900	2400	59.77
Phosphorus (P)	0.025	0.95	1200	1800	59.76
Manganese (Mn)	0.45	0.95	1200	2400	44.82
Sulphur (S)	0.03	0.95	1200	3000	35.85
		0.95	1200	3600	29.88
		0.95	1500	2400	35.85
		0.95	1500	3000	28.68
Tolerances.		1.15	915	1800	65.16
Widths are mill edge widths.		1.15	915	2400	48.87
		1.15	1200	1800	49.69
Material should be used promptly (within 6 months) to avoid a storage related phenomena of galvanized coatings termed intergranular corrosion.		1.15	1200	2400	37.27
		1.15	1200	3000	29.81
		1.15	1200	3600	24.84
		1.15	1500	2400	29.81
		1.15	1500	3000	23.85
1 tonne coils as below.		1.55	900	1800	49.55
Thickness mm	Width mm	1.55	900	2400	37.16
0.40	1220	1.55	1200	1800	37.16
0.55	1200	1.55	1200	2400	27.87
0.55	1500	1.55	1200	2400	22.3
0.75	1200	1.55	1200	3600	18.58
0.95	1200	1.55	1500	2400	22.30
1.15	1200	1.55	1500	3000	17.84
  Typical lock seam finish.		1.95	1200	1800	29.68
		1.95	1200	2400	22.26
		1.95	1200	3000	17.81
		1.95	1200	3600	14.84
		2.40	1220	2400	17.85
		2.40	1220	3000	14.28
		2.90	1220	2400	19.75
		2.90	1220	3000	14.82
		2.90	1220	3000	11.85
		2.90	1220	3600	9.88

Aluminium Sheet, Plate & Treadplate.

Aluminium Sheets, Plate and Treadplate - Gr 5005 ,5052 ,5083 and 5005 0 (5Bar).

Grades and Uses.	Size mm x mm	t mm	Mass/sh	Mass/sh	Mass/sh	Mass/sh
			5005 H34	5052 H32	5083 H321	Treadplate
Grade 5005 H34 Sheet	1200 x 2400	0.60	4.683	n/a	n/a	n/a
This is a general purpose alloy suitable for a wide range of sheet metal applications. Suitable for welding.	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	9.599	n/a	n/a
	1200 x 3000	1.20	12.000	n/a	n/a	n/a
The size range listed is typical of the stocks at most outlets.	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
Grade 5052 H32 Sheet	1200 x 2400	2.00	15.610	15.61	n/a	17.122
Used in sheet metal work, appliances and marine applications.	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
Grade 5083 H321 Plate	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
Used in high strength structural applications principally in the form of sheet and plate for welded marine applications and road transport vehicles.	1500 x 2400	2.50	n/a	24.39	n/a	n/a
	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	59.71	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
	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
2200 x 10000	4.00	n/a	n/a	244.42	n/a	
Grade 5052 0 (5 Bar) Plate	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
Aluminium Treadplates. 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.	1830 x 6100	5.00	n/a	n/a	155.0429	n/a
	2200 x 10000	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 10000	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 Flats, Angles & Rounds.



Aluminium Flat Bar 6060 T5		
Size	Length	Mass/ln
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	1.664
25 x 10	4000	2.776
32 x 3	4000	1.064
32 x 6	4000	2.124
32 X 10	4000	3.552
40 x 3	4000	1.332
40 x 4	4000	1.776
40 x 6	4000	2.664
40 x 10	4000	4.444
50 x 3	4000	1.664
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	5.536
50 x 12	4000	6.664
60 x 6	4000	4.000
60 x 10	4000	6.664
60 x 12	4000	8.000
76.2 x 6.4	4000	5.380
80 x 3	4000	2.656
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	11.108
100 x 12	4000	13.332
160 x 6	4000	10.664
160 x 10	4000	17.776

Aluminium Flat Bar 6061 T6		
Size	Length	Mass/ln
40 x 6	6000	3.984
50 x 6	6000	4.998

Aluminium Angles 6060 T5		
Size	Length	Mass/ln
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	2.477
25x 25x6.0	6500	4.752
32x 25x3.0	6096	2.906
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	7.989
50x 25x1.6	6500	2.113
50x 25x3.0	6500	3.887
50x 50x3.0	6500	5.109
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/ln
50x 50x6.0	6500	10.205
60x 60x6.0	6500	12.363
80x 50x6.0	6500	13.442
80x 80x6.0	6500	16.679
80x 80x10.0	6500	27.118
100x 50x6.0	6500	15.600
100x80x10	6500	31.031
150x80x10	5000	30.6

Some sections may not be available
at all locations.

Aluminium Flat Bar 6061 T6		
Size	Length	Mass/ln
80 x 6	6	7.998
100 x 6	6	9.996

Aluminium Rounds 6060 T5		
Size	Length	Mass/ln
10.0	6000	1.302
12.0	6000	1.884
16.0	6000	3.348
20.0	6000	5.655
25.4	4000	5.628
33.0	6000	14.250
39.0	4000	13.224

Aluminium Square 6060 T5		
Size	Length	Mass/ln
12.0	4000	1.596
25.0	4000	6.944
40.0	4000	17.712

Aluminium Channels 6060 T5		
Size	Length	Mass/ln
25 x 25x3.0	6500	3.725
32x 25x3.0	6500	4.102
40x 20x3.0	6500	4.011
40x 25x3.0	6500	4.531
41.5x22.5x3	6500	4.355
50x 25x3.0	6500	5.070
60x32x3	6500	6.390
80x 25x3.0	6500	6.689
100x 25x3.0	6500	7.768

Alum Struct Channels 6061 T6		
Size	Length	Mass/ln
80x 40x6x6	6500	16.094
100x 50x6x9	6500	25.311
152.4x63.5x6.35	6500	34.240
160x 60x6x9	6500	35.035
180x 80x6x11	6500	48.984
200x 90x8x10	6100	54.089
381x152.4x12.7	2500	50.210

Alum Bull Bar Channels.		
Size	Length	Mass/ln
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. Not all sizes may be available at all times.



Aluminium Hollows & Tubes.

Square Edge Hollow Sections 6060/6063		
Squares		
Size	Length	Mass/ln
25x25x1.6 (6060-5)	6500	2.438
25x25x3.0 (6060-5)	6500	4.752
32x32x3.0 (6060-5)	6500	6.13
40x40x1.6 (6060-5)	6500	4.427
40x40x2.0 (6060-5)	6500	5.467
40x40x3.0 (6060-5)	6500	7.989
50x50x1.6 (6060-5)	6500	5.577
50x50x2.5 (6060-5)	6500	8.541
50x50x3.0 (6060-5)	6500	10.179
65x65x3.0 (6005-5)	6500	13.091
75x75x1.6 (6063-5)	6100	7.765

Radius Edge Hollow Sections 6060/6063/6082		
Squares		
Size	Length	Mass/ln
19x19x1.6 (6060-5)	6500	1.937
20x20x3.0 (6063-6)	6500	3.523
25x25x3.0 (6060-9)	6500	4.752
40x40x2.0 (6063-5)	6500	5.467
50x50x1.6 (6060-5)	6500	5.577
50.8x50.8x2.0 (6060-5)	6500	6.799
65x65x3.0 (6005-5)	6500	13.091
76.2x76.2x6.35 (6082-5)	6500	29.360
100x100x3.0 (6060-5)	6500	20.917

Round Tubes 6060/6063/6106		
Size	Length	Mass/ln
15.88x1.2 (6063-6)	6100	0.933
15.88x1.42 (6063-6)	6100	1.092
16x1.2 (6060-6)	6500	1.008
16x1.6 (6060-5)	6000	1.206
20x1.6 (6060-5)	6500	1.664
20x2.0 (6106-6)	6000	1.884
25x3.0 (6060-5)	6500	3.738
32x3.0 (6060-5)	6500	4.934
38.1x3.2 (6063-1)	6000	5.844
40x3.0 (6060-5)	6500	6.292
44.5x3.2 (6063-591)	6000	6.918
48.3x4.7 (6063-9)	6500	11.369
50x2.0 (6063-9)	6000	5.022
50x3 (6063-1)	6000	7.380
50x3 (6063-1)	6500	7.995
50x4 (6063-9)	6500	10.432
60x2 (6063-9)	6000	6.072
60x2 (6063-9)	6500	6.578

Square Edge Hollow Sections 6060/6063		
Rectangular		
Size	Length	Mass/ln
38x19x1.6 (6063-6)	6500	2.867
40x25x2.5 (6060-5)	6500	5.395
50x25x3.0 (6060-5)	6500	7.449
50x40x3 (6060-5)	6500	9.068
60x40x3.0 (6060-5)	6500	10.147
60x50x3.0 (6060-5)	6500	11.219
76.2x25.4x2.36 (6060-5)	6500	8.281
80x40x3.0 (6060-5)	6500	12.298
80x50x3.0 (6060-5)	6500	13.325
100x50x3.0 (6060-5)	6500	15.535
150x50x3.0 (6060-5)	6500	20.930

Radius Edge Hollow Sections 6060/6063/6082		
Rectangular		
Size	Length	Mass/ln
38x25x1.6 (6060-5)	6500	2.867
38x25x2.5 (6060-5)	6500	5.395
50x25x1.6 (6060-5)	6500	3.690
50.8x25.4x2.5 (6060-5)	6500	6.204
65x16x1.4 (6063-6)	6500	3.835
75x50x4.0 (6005-5)	7500	18.610
100x50x3.0 (6060-5)	6500	14.814
150x50x3 (6063-5)	6500	20.995
152x76x6 (6082-6)	6500	49.205

Round Tubes 6060/6063/6106 (Cont)		
Size	Length	Mass/ln
60x5 (6063-9)	6500	15.594
63.5x3.2 (6063-1)	6000	10.098
63.5x4.75 (6063-1)	6000	14.256
76.2x3.2 (6063-1)	6000	12.228
76.2x4.75 (6063-1)	6000	17.166
80x3 (6063-9)	6500	13.098
100x3 (6060-5)	6500	16.504
203.2x3 (6060-5)	6100	31.964


Round Tube 6061/6082/6005A		
Size	Length	Mass/ln
48.4x4.47 (6061-6)	6.1m (Scaffold)	10.199
50x4 (6016-9)	6500	10.432
50x5 (6106-6)	6600	12.956
50x6 (6106-6)	6000	13.818
63.5x6.35 (6082-6)	6000	18.864
76.2x6.35 (6082-6)	6000	22.656
101.6x6.35 (6082-6)	6500	34.300
114.3x6.4 (6082-6)	6500	39.163

Sizes may not be available at all locations. Please check with your steel outlet.

Aluminium Round Machining Rods.



Aluminium Round Machining Rod 2011.

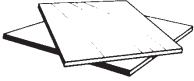
Alloys uses and notes.	Size	Grade	Finish	Length-mm	Mass kg/ln
<p>Grade 2011</p> <p>A strong alloy specially developed for high speed machining.</p> <p>Used for parts produced on repetition machines.</p>  <p>Some items may be need to be supplied from a mill rolling.</p> <p>Some sizes may not be available ex stock.</p> <p>Please check with your local outlet.</p> <p>Details courtesy of Capral Aluminium.</p>	39.00	T6	Mill Finish	3600	12.085
	42.00	T6	Mill Finish	3600	14.634
	45.00	T6	Mill Finish	3600	15.458
	50.00	T6	Mill Finish	3600	19.084
	55.00	T6	Mill Finish	1800	11.547
	60.00	T6	Mill Finish	1800	13.741
	65.00	T6	Mill Finish	1800	16.126
	70.00	T6	Mill Finish	1800	18.704
	75.00	T6	Mill Finish	1800	22.345
	80.00	T6	Mill Finish	1500	21.127
	90.00	T6	Mill Finish	1500	26.786
	100.00	T6	Mill Finish	1500	31.809
	110.00	T6	Mill Finish	1500	40.541
	130.00	T6	Mill Finish	1500	55.556
	140.00	T6	Mill Finish	1500	65.217
150.00	T6	Mill Finish	1500	75.000	
160.00	T6	Mill Finish	1500	83.333	
210.00	T6	Mill Finish	1500	146.540	

Stainless Steel Sheets*.

*Sheet sizes may vary in dimensions between local stockists.



Stainless Steel Sheets & Plates.

Alloys and Uses.	Size mm	t mm	Mass kg/sh	Mass kg/sh	Mass kg/sh
			304 2B	304 No4 PVC	316 2B
<p>Grade 304</p> <p>This is an austenitic, corrosion resistant steel with excellent strength, toughness, fabrication features and weld ability.</p> 	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
<p>Grade 316</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> <p>Not a stocked item at all locations.</p> <p>Details courtesy of local suppliers.</p>	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

Stainless Steel Flats.

Stainless Steel Flats - ASTM A276

Size mmxmm	Weight kg/m	304 Grade		316 Grade		Size mmxmm	Weight kg/m	304 Grade		316 Grade	
		SRE	HRAP	SRE	HRAP			SRE	HRAP	SRE	HRAP
12 x 3	0.317	A	OR	A	OR	50 x 10	3.960	A	A	A	A
20 x 3	0.480	A	A	A	OR	65 x 10	5.130	A	A	A	A
25 x 3	0.630	A	A	A	A	75 x 10	5.930	A	A	A	A
30 x 3	0.790	A	A	A	A	100 x 10	7.900	A	A	A	A
40 x 3	0.948	A	A	A	A	125 x 10	10.160	OR	OR	OR	OR
50 x 3	1.300	A	OR	A	A	150 x 10	11.830	OR	OR	OR	OR
75 x 3	1.980	OR	OR	A	OR						
20 x 5	0.790	A	A	A	OR	25 x 12	2.590	OR	A	OR	A
25 x 5	0.987	A	A	A	A	30 x 12	3.250	OR	OR	OR	OR
30 x 5	1.190	A	A	A	A	40 x 12	3.890	A	A	A	A
40 x 5	1.580	A	A	A	A	50 x 12	5.180	A	A	A	A
50 x 5	1.970	A	A	A	A	65 x 12	6.480	A	A	A	A
65 x 5	2.560	A	A	A	A	75 x 12	7.770	A	A	A	A
75 x 5	2.960	A	A	A	OR	100 x 12	10.360	A	A	A	OR
12 x 6	0.648	OR	A	OR	A	40 x 16	5.050	OR	A	OR	OR
20 x 6	0.970	A	A	A	A	50 x 16	6.480	OR	A	OR	A
25 x 6	1.300	A	A	A	A	65 x 16	8.210	OR	A	OR	OR
30 x 6	1.620	A	A	A	A	50 x 20	7.900	OR	A	OR	OR
40 x 6	1.930	A	A	A	A	75 x 20	11.900	OR	A	OR	A
50 x 6	2.590	A	A	A	A	100 x 20	15.800	OR	A	OR	A
65 x 6	3.250	A	A	A	A	50 x 25	10.360	OR	A	OR	A
75 x 6	3.890	A	A	A	A	75 x 25	15.480	OR	A	OR	A
90 x 6	4.520	OR	OR	A	OR	100 x 25	20.690	OR	A	OR	A
100 x 6	5.180	A	A	A	A	125 x 8	8.000	OR	A	OR	A
150 x 6	7.380	A	OR	A	OR	125 x 10	10.000	OR	A	OR	A
50 x 8	3.280	A	OR	A	OR	125 x 12	12.000	OR	A	OR	A
65 x 8	4.260	A	OR	A	OR	150 x 6	7.200	A	A	A	A
75 x 8	4.920	A	OR	A	OR	150 x 8	9.600	OR	A	OR	A
100 x 8	6.560	A	OR	A	OR	150 x 10	12.000	OR	A	OR	A
20 x 10	1.580	OR	A	OR	A	150 x 12	14.400	OR	A	OR	A
25 x 10	1.970	A	A	OR	A	200 x 6	9.600	A	OR	OR	OR
30 x 10	2.430	A	A	A	A	200 x 10	16.000	OR	A	A	OR
40 x 10	3.160	A	A	A	A	200 x 12	19.200	OR	OR	OR	A
						250 x 10	20.000	OR	OR	OR	OR

HRAP = Hot Rolled, Annealed, Pickled.

SRE = Slit, Rolled Edge.

A = Available as a stock item.

Lengths normally 4.0m to 6.0m.

Thicknesses over 6mm supplied in 6.0m.

OR = Stock may be available ON REQUEST

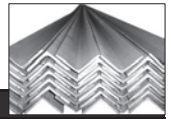
Stainless Steel Square Bar.

Stainless Steel Squares - ASTM A276/A582/A484M.

Size mm	Weight kg/m	304 Grade	316 Grade	Size mm	Weight kg/m	304 Grade	316 Grade
10	0.800	A	A	25	5.180	A	A
12	1.200	A	A	32	8.210	OR	A
12.7	1.320	OR	A	40	12.830	A	A
16	2.050	A	A	45	16.240	OR	A
20	3.210	A	A	50	20.050	A	A

Square bar lengths may be random between 3.0m - 5.0m.

Stainless Steel Angles.



Stainless Steel Angles - ASTM A276/A484M

Equal Angles.			
Size mmxmm	Weight kg/m	Grade 304/304L	Grade 316/316L
20x20x3	0.900	A	A
25x25x3	1.210	A	A
25x25x5	1.770	A	A
25x25x6	2.260	A	A
30x30x3	1.530	A	A
30x30x4	1.950	A	A
30x30x5	2.250	A	A
30x30x6	2.920	A	A
40x40x3	1.860	A	A
40x40x4	2.600	A	A
40x40x5	2.980	A	A
40x40x6	3.560	A	A
50x50x3	2.500	A	A
50x50x5	3.790	A	A
50x50x6	4.950	A	A
50x50x8	5.760	A	A

Equal Angles.			
Size mmxmm	Weight kg/m	Grade 304/304L	Grade 316/316L
50x50x10	7.060	A	A
60x60x6	5.400	A	OR
65x65x6	6.160	A	A
65x65x8	7.710	A	A
65x65x10	9.480	A	A
75x75x6	7.460	A	A
75x75x8	8.970	A	A
75x75x10	11.100	A	A
75x75x12	13.100	OR	A
100x100x6	10.050	A	A
100x100x8	12.200	A	A
100x100x10	15.000	A	A
100x100x12	19.600	OR	A
127x127x10	20.100	OR	OR
150x150x10	23.700	OR	OR

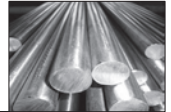
Unequal Angles.			
Size mmxmm	Weight kg/m	Grade 304/304L	Grade 316/316L
75x50x6	5.700	N/A	A
100x50x6	6.900	N/A	OR
100x50x10	11.100	N/A	OR
100x75x6	8.100	N/A	A
125x75x6	9.280	N/A	A
125x75x9	13.600	N/A	A
150x75x8	13.800	N/A	OR
150x90x9	16.500	N/A	OR
150x100x10	19.100	N/A	OR

HRAP = Hot Rolled Annealed & Pickled.
Supplied in 6.0m and Random Lengths.

A = Available as a stock item.

OR = Stock maybe available ON REQUEST.

Stainless Steel Rounds.

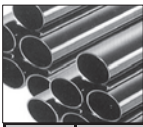


Stainless Steel Rounds - ASTM A276

Size mmxmm	Weight kg/m	Grade 304/304L	Grade 316/316L
3.18	0.062	A	A
3.96	0.100	A	A
4.76	0.140	A	A
5.00	0.155	OR	A
6.00	0.230	A	A
6.35	0.250	A	A
7.94	0.390	A	A
8.00	0.400	A	A
9.53	0.560	A	A
10.00	0.620	A	A
11.11	0.760	A	A
12.00	0.890	A	A
12.70	0.990	A	A
14.28	1.260	A	A
15.88	1.552	A	A
16.00	1.580	A	A
19.05	2.235	A	A
20.00	2.470	A	A
22.23	3.042	A	A
24.00	3.551	A	A
25.00	3.853	A	A
25.40	3.973	A	A
28.58	5.030	A	A
30.00	5.550	A	A

Size mmxmm	Weight kg/m	Grade 304/304L	Grade 316/316L
31.75	6.210	A	A
34.93	7.512	A	A
35.00	7.553	A	OR
36.00	8.000	A	A
38.10	8.940	A	A
40.00	9.870	A	A
41.28	10.500	OR	A
44.45	12.170	A	A
50.00	15.413	A	A
50.80	15.900	A	A
57.15	20.120	A	A
60.00	22.200	A	A
63.50	24.840	A	A
69.85	30.050	A	A
75.00	30.770	A	A
76.20	35.760	A	A
80.00	39.460	A	OR
82.55	41.980	A	A
88.90	48.680	A	A
95.25	55.880	OR	A
101.60	63.590	A	A
110.00	74.600	A	A
114.30	81.900	A	A
125.00	98.100	A	A

Size mmxmm	Weight kg/m	Grade 304/304L	Grade 316/316L
127.00	100.90	A	A
139.70	122.50	OR	A
140.00	123.10	A	A
150.00	141.30	A	A
152.40	144.90	A	A
160.00	160.80	A	A
177.80	196.90	OR	A
180.00	203.50	A	A
190.00	226.70	OR	A
200.00	251.20	A	A
203.20	256.80	OR	A
210.00	276.90	OR	A
215.90	292.70	OR	A
225.00	317.90	OR	A
228.60	324.70	OR	A
230.00	332.20	OR	A
241.30	365.70	OR	A
245.00	377.00	OR	A
254.00	392.50	OR	A
260.00	424.50	OR	A
280.00	492.40	OR	A
285.00	510.10	OR	A
300.00	565.20	OR	A
304.80	575.90	OR	A



Stainless Steel Pipe.

Stainless Steel Pipes - ANSI / ASME B36.19 / B36.1 and ASTM standards.

O.D. mm	W/T mm	Size Inch	Size Sch	kg m	Grade 304L	Grade 316L
13.72	1.65	1/4"	10S	0.50	OR	A
	2.24		40S	0.64	A	A
17.15	1.65	3/8"	10S	0.64	OR	A
	2.31		40S	0.86	A	A
21.34	2.11	1/2"	10S	1.01	A	A
	2.77		40S	1.28	A	A
26.87	2.11	3/4"	10S	1.29	A	A
	2.87		40S	1.71	A	A
33.40	2.77	1"	10S	2.12	A	A
	3.38		40S	2.54	A	A
42.10	2.77	1.1/4"	10S	2.73	A	A
	3.56		40S	3.43	A	A
48.26	2.77	1.1/2"	10S	3.15	A	A
	3.91		40S	4.10	A	A
60.33	2.77	2"	10S	3.98	A	A
	3.91		40S	5.52	A	A
73.03	3.05	2.1/2"	10S	5.33	A	A
	5.16		40S	8.75	A	A
88.90	3.05	3"	10S	6.54	A	A
	5.49		40S	11.44	A	A
101.60	3.05	3.1/2"	10S	7.51	A	A
	5.74		40S	13.75	A	A

A = Available.

OR = Maybe available ON REQUEST.

O.D. mm	W/T mm	Size Inch	Size Sch	kg m	Grade 304L	Grade 316L
114.30	3.05	4"	10S	8.48	A	A
	6.02		40S	16.29	A	A
141.30	3.4	5"	10S	11.73	A	A
	6.55		40S	22.07	A	A
168.28	3.4	6"	10S	14.03	A	A
	7.11		40S	28.65	A	A
219.08	3.76	8"	10S	20.23	A	A
	8.18		40S	43.12	A	A
273.05	4.19	10"	10S	28.17	A	A
	9.27		40S	61.13	A	A
323.85	4.57	12"	10S	36.49	A	A
	9.53		40S	74.84	A	A
355.60	4.77	14"	10S	41.88	A	A
	9.52		Std.Wall	82.40	A	A
406.40	4.77	16"	10S	47.94	A	A
	9.52		Std.Wall	94.49	A	A
457.20	4.77	18"	10S	54.00	A	A
	9.52		Std.Wall	106.59	A	A
508.00	5.54	20"	10S	69.55	A	A
	9.52		Std.Wall	118.68	A	A
609.00	6.35	24"	10S	95.75	A	A
	9.52		Std.Wall	142.87	A	A
762.00	7.92	30"	10S	149.38	OR	A



Stainless Steel Polished - Ornamental Tubes.

Stainless Steel Polished Handrail Tubing - ASTM 304 & 316.

O.D. mm	W/T mm	Size Inch	Gauge SWG	kg m	Grade 304L	Grade 316L
12.7	1.20	1/2"	18	0.35	A	A
	1.60		16	0.44	A	A
15.88	1.2	5/8"	18	0.44	OR	OR
	1.6		16	0.57	A	A
19.05	1.2	3/4"	18	0.54	A	A
	1.6		16	0.70	A	A
22.2	1.2	7/8"	18	0.63	A	A
	1.6		16	0.83	A	A
25.4	1.2	1"	18	0.73	A	A
	1.6		16	0.95	A	A
31.75	1.2	1.1/4"	18	0.92	A	A
	1.6		16	1.21	A	A
38.1	1.2	1.1/2"	18	1.24	A	OR
	1.6		16	1.46	A	A

Sold in 6.0metres. Bends also available.

O.D. mm	W/T mm	Size Inch	Gauge SWG	kg m	Grade 304L	Grade 316L
44.45	1.6	1.3/4"	16	1.71	OR	A
50.8	1.2	2"	18	1.54	OR	OR
	1.6		16	1.97	A	A
63.5	1.2	2.1/2"	18	1.93	OR	OR
	1.6		16	2.48	A	A
76.2	1.2	3"	18	2.32	A	OR
	1.6		16	2.99	A	A
101.6	1.6	4"	16	4.12	A	A
	2.0		14	4.99	OR	A
127.0	1.6	5"	16		A	A
	2.0		14		OR	A

Finish - 320/400 grit polished "Satin" finish.

Stainless Steel - Rolled Hollow Sections.



Square Hollow Sections.				
Size mmxmm	Thickness mm	kg m	Grade 304	Grade 316
12.7 x 12.7	1.2	0.500	OR	A
	1.6	0.640	A	OR
19 x 19	1.2	0.740	A	OR
	1.6	1.000	A	A
22.2 x 22.2	1.2	0.752	A	OR
	1.6	1.020	OR	OR
25.4 x 25.4	1.2	0.925	A	OR
	1.6	1.220	A	A
25 x 25	2.0	1.495	A	OR
	3.0	2.216	A	OR
30 x 30	1.2	1.106	OR	OR
	1.5	1.371	OR	OR
31.75 x 31.75	1.2	1.190	A	OR
	1.6	1.470	OR	A
32 x 32	2.0	1.210	A	OR
	3.0	1.490	A	OR
34 x 34	1.2	1.210	PR	OR
	1.6	1.490	OR	OR
38.1 x 38.1	1.2	1.415	A	OR
	1.6	1.758	A	A
38 x 38	2.0	2.319	A	OR
	3.0	3.570	A	A
40 x 40	2.0	2.454	A	A
	3.0	3.756	OR	A
50.8 x 50.8	1.2	1.930	A	OR
	1.6	2.470	A	A
50 x 50	2.0	3.080	A	OR
	3.0	4.650	A	A
	4.0	5.960	OR	OR
	5.0	7.410	OR	OR
60 x 60	1.5	2.802	OR	OR
	2.0	3.711	OR	OR
	3.0	5.491	A	A
75 x 75	2.0	4.680	OR	OR
	3.0	6.950	A	OR
	5.0	11.240	OR	OR
80 x 80	3.0	7.530	A	A
	5.0	12.395	OR	A
100 x 100	2.0	6.400	OR	OR
	3.0	9.530	A	A
	4.0	12.400	OR	OR
	5.0	15.380	A	A
150 x 150	6.0	17.500	OR	OR
	3.0	14.064	A	A
	4.0	18.624	OR	OR
200 x 200	5.0	22.400	A	A
	8.0	47.250	OR	A
250 x 250	6.0	45.700	OR	OR
300 x 300	6.0	55.300	OR	OR

Rectangular Hollow Sections.				
Size mmxmm	Thickness mm	kg m	Grade 304	Grade 316
30 x 20	1.2	0.925	OR	OR
	1.5	1.146	OR	OR
40 x 20	2.0	1.840	A	A
40 x 30	1.5	1.620	OR	OR
	2.0	2.150	OR	OR
38.1 x 25.4	1.6	1.443	OR	OR
50 x 10	2.0	1.840	OR	A
	1.5	1.758	A	A
50 x 25	3.0	3.456	A	A
	1.2	4.430	A	OR
50.8 x 25.4	1.6	1.800	A	A
	1.5	1.756	A	A
50 x 25	2.0	2.319	OR	OR
	3.0	3.456	A	A
50 x 30	1.5	1.859	OR	OR
	2.0	2.454	OR	OR
50 x 40	1.5	2.122	OR	OR
	2.0	2.804	OR	OR
60 x 40	3.0	4.650	A	A
75 x 50	2.0	3.711	OR	OR
	3.0	5.491	OR	OR
80 x 10	2.0	2.804	OR	A
80 x 40	1.6	2.802	A	OR
	3.0	5.491	A	A
80 x 60	2.0	4.380	OR	OR
	2.0	4.680	A	OR
100 x 50	3.0	6.950	A	A
	5.0	11.240	A	A
	3.0	7.530	OR	OR
150 x 100	3.0	11.664	OR	OR
	4.0	15.424	OR	OR
	5.0	18.800	A	A
150 x 75	5.0	16.300	A	OR
200 x 100	5.0	22.400	OR	OR
	6.0	27.360	A	A
250 x 150	5.0	30.800	OR	OR
	6.0	36.900	OR	OR
300 x 200	6.0	45.700	OR	OR
400 x 200	6.0	55.300	OR	OR

A = Available.

OR = Stocks may be available ON REQUEST.

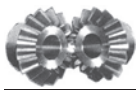
Some sections able to be polished to 220, 320 or 400 grit.

The corners of polished sections are NOT polished.

The details above and those on the previous page, has been compiled from using various suppliers information.

There is no guarantee that an item marked ON REQUEST, will be available and in fact may be subject to minimum order quantity, or mill rollings.

Details subject to change without prior notice.



Special Steels - Engineering Steels.

Grades

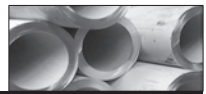
<u>Alloy Steel Bar.</u>	
Grades:-	High Tensile.
4140	High Tensile material is generally supplied in the Hardened and Tempered condition.
4340	
EN25	
EN26	
<u>Bright Steel Bar.</u>	
Grades:-	
U1004	Available in Rounds, Squares, Hexagons and Flat Bars. Cold finished to provide closer size tolerances. The 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 are for repetition machining.
12L14	
<u>Hollow Bars.</u>	
Grades:-	
147M	Micro alloyed steel giving high - strength, machine ability and weld ability.
4140	High strength grade supplied in the hardened and tempered condition.
<u>Stainless Bar.</u>	
Grades:-	
303	Used in areas where corrosion resistance is paramount.
304	
316 & 316L	
431	
2205	
630	
<u>Hydraulic Tube.</u>	
Grades:-	
DOM Honed	Used to make Hydraulic Cylinders or Ram Tubes.
DOM Unhoned	
<u>Spring Steel Bars.</u>	
Grades:-	
XK9261S	Rounds in a range 13mm - 36mm
XK9258S	RE Flats in a range 45x6 - 130x20.
XK9258S	Square Edge flats 32x5 - 130x10.



Uses

<u>Alloy Steel Bar.</u>	
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.
<u>Bright Steel Bar.</u>	
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.	
<u>Hollow Bars.</u>	
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.
<u>Stainless Bar.</u>	
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.
<u>Hydraulic Tube.</u>	
Uses:-	
Bronze	Bushing material in Mining & Agriculture Transport Industry or Hydraulic Cylinders.
Cast Iron	
<u>Spring Steel Bars.</u>	
Uses:- Mainly agricultural usage.	
XK9261S	Coil Spring and agricultural tyres.
XK9258S	Leaf Springs or chopping blades
XK9258S	Chopping blades and wear strips.

"Euro Norm" Hollow Bars 20MnV6.



Euro Norm (EN 10294-1:2005)

O.D mm	I.D. mm	kg/m	O.D mm	I.D. mm	kg/m	O.D mm	I.D. mm	kg/m	O.D mm	I.D. mm	kg/m	O.D mm	I.D. mm	kg/m		
30	20	4.3	95	60	37.2	130	80	72.3	160	90	118.4	185	125	128.2		
	15	5.3		55	40.8		75	77.0		85	123.6		120	135.9		
35	25	5.1		50	44.0		70	81.4		80	128.5		115	143.2		
	20	6.4	100	45	46.8	140	65	85.5	170	75	133.2	190	110	150.0		
40	30	5.9		85	21.8		60	89.2		70	137.4		105	156.6		
	25	7.5		80	27.1		55	93.8		155	42.5		100	162.8		
	20	8.8	105	75	31.5	150	125	33.6	180	150	51.4	200	95	168.6		
45	35	6.7		70	36.0		120	39.9		145	60.8		175	48.3		
	30	8.7		65	40.2		115	47.3		140	68.5		170	57.9		
	25	9.8	115	60	44.0	155	110	54.4	185	135	77.2	210	165	68.9		
50	40	7.6		55	47.5		105	61.2		130	85.5		160	77.8		
	35	9.9		50	50.7		100	67.5		125	93.5		155	87.4		
	30	11.8	120	45	53.2	160	95	73.6	190	120	101.2	220	150	97.1		
55	45	9.0		90	23.7		90	79.3		115	108.4		145	106.6		
	40	11.6		85	28.2		85	84.8		110	115.6		140	115.5		
	35	13.9	125	80	33.3	165	80	89.6	195	105	122.1	225	135	123.9		
	30	15.9		75	38.2		75	94.4		100	128.4		130	132.1		
60	50	9.3		70	42.7		70	98.7		95	134.5		125	140.2		
	45	12.2	130	65	46.8	170	65	104.3	200	90	140.0	230	120	147.7		
	40	14.9		60	50.7		135	37.0		85	145.2		115	155.1		
	35	17.2		55	54.1		130	43.5		80	150.2		110	161.9		
65	55	10.3	135	50	58.1	175	125	51.7	205	160	45.2	235	105	168.6		
	50	13.7		100	26.2		120	59.3		155	54.3		100	174.8		
	45	16.7		95	31.2		115	66.6		150	64.6		185	52.1		
	40	19.3	140	90	37.0	180	110	76.7	210	145	72.3	240	180	64.0		
	35	21.4		85	42.5		105	80.4		140	81.5		175	75.0		
70	60	11.0		80	47.6		100	86.8		135	90.1		170	84.2		
	55	14.6	145	75	52.5	185	95	92.9	215	130	98.3	245	165	95.0		
	50	17.9		70	56.9		90	98.5		125	106.4		160	105.2		
	45	20.9		65	61.0		85	103.8		120	113.9		155	115.2		
	40	23.5	150	60	64.9	190	60	108.9	220	115	121.1	250	150	124.8		
75	65	11.8		55	68.3		75	113.5		110	128.2		145	133.9		
	60	15.8		105	27.5		70	117.7		105	134.7		140	142.7		
	55	19.4	155	100	32.7	195	65	121.8	225	100	140.9	255	135	151.5		
	50	22.8		95	38.9		140	38.0		95	146.9		130	159.6		
	45	25.7		90	44.7		135	45.2		90	152.4		125	167.5		
	40	27.4	160	85	50.1	200	130	53.5	230	85	157.6	260	120	175.1		
80	65	16.8		80	55.3		125	61.6		165	45.1		115	182.1		
	60	20.8		75	60.1		120	69.3		160	54.6		110	189.0		
	55	24.0	165	70	64.5	205	115	76.6	235	155	64.5	265	105	195.4		
	50	27.3		65	68.7		110	83.7		150	72.9		100	202.5		
	45	30.1		60	72.4		105	90.3		145	82.1		190	74.1		
	40	32.6	170	110	29.3	210	100	96.6	240	140	91.1	270	185	85.3		
85	70	18.1		105	34.7		95	102.7		135	99.8		180	97.4		
	65	22.4		100	41.1		90	108.3		130	108.0		175	109.2		
	60	25.8	175	95	47.3	215	85	113.6	245	125	116.0	275	170	120.2		
	55	29.4		90	53.0		80	118.6		120	123.7		165	131.2		
	50	32.5		85	58.5		75	123.1		115	131.0		160	141.8		
	45	35.3	180	80	63.7	220	70	129.3	250	110	138.0	280	155	152.1		
90	75	19.0		75	68.4		65	133.2		105	144.5		150	161.6		
	70	23.6		70	72.8		145	39.3		100	150.9		145	171.1		
	65	27.5	185	65	76.9	225	140	46.8	255	95	156.7	285	140	180.2		
	60	31.5		60	80.6		135	55.2		90	162.2		135	188.9		
	55	35.0		55	84.1		130	63.7		85	165.4		130	197.2		
	50	38.6	190	115	31.0	230	125	71.6	260	170	46.6	290	125	204.8		
	45	40.9		110	36.7		120	79.3		165	56.5		180	122.7		
	40	43.4		105	43.5		115	86.7		160	67.0		170	145.4		
95	80	20.7	195	100	49.9	235	110	93.6	265	155	75.5	295	160	166.9		
	75	25.3		95	56.0		105	100.5		150	85.2		155	177.0		
	70	29.3		90	61.7		100	106.7		145	94.6		150	186.5		
	65	33.6	200	85	67.2	240	95	112.7	270	140	103.4	300	145	195.9		
													135	112.1	140	204.9
													130	120.4	135	213.5
												130	221.8			

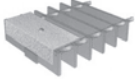
This range is **not** complete and some sizes may not be stocked due to mill minimum requirements. It should be noted that some imperial sizes may be available but not listed.

Suppliers limit the metric & imperial range, making availability restricted. Sizes up to 250mm O.D. not shown.



Welded Floor Grating.

Welded Floor Grating.					
How to read Welded Grating Product Coding					
A	S	30	32	5	Finish
Cross Bar Pitching	Serrated Load Bars	Load Bar Pitching	Load Bar Depth	Load Bar Thickness	Black or Galvanized
Cross Bar Pitch	A = 100mm Centres	B = 50mm Centres			
Load Bar Finish	Load bars may be supplied in a plain finish or in a serrated form.				
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.					



Floor Grating Step Treads.

Floor Grating Step Treads.																	
Photos for illustration.	Step Tread Legend.																
	PT1 - Welded Fixing - no nosing PT2 - Bolted Fixing - no nosing PT3 - Welded Fixing - Floor plate nosing PT4 - Bolted Fixing - Floor plate nosing PT5 - Welded Fixing - abrasive nosing PT6 - Bolted Fixing - abrasive nosing PT7 - Welded Fixing - perforated nosing PT8 - Bolted Fixing - perforated nosing																
	Recommended Maximum Lengths																
	<table border="1"> <thead> <tr> <th>Load Bar Size</th> <th>25x5</th> <th>32x5</th> <th>40x5</th> </tr> </thead> <tbody> <tr> <td>Series 30</td> <td>900</td> <td>1300</td> <td>1600</td> </tr> <tr> <td>Series 40</td> <td>750</td> <td>1200</td> <td>1500</td> </tr> <tr> <td>Series 50</td> <td>500</td> <td>800</td> <td>1300</td> </tr> </tbody> </table>	Load Bar Size	25x5	32x5	40x5	Series 30	900	1300	1600	Series 40	750	1200	1500	Series 50	500	800	1300
Load Bar Size	25x5	32x5	40x5														
Series 30	900	1300	1600														
Series 40	750	1200	1500														
Series 50	500	800	1300														



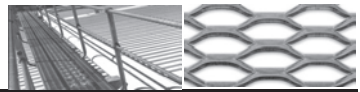
Fibreglass Floor Grating.

Fibreglass Floor Gratings.	
Photos for illustration.	Fibreglass Gating details.
	Two depths available (25mm & 38mm) <u>Two resin systems.</u> Type "I" uses isophthalic polyester resin and provides excellent corrosion resistance properties against a range of chemicals. Type "V" uses a vinyl ester resin base with superior corrosion resistance to acidic environments and moderate resistance to caustic and solvent applications.

Type "I" is Green - Type "V" is Yellow. Fibreglass Grating Stairs also available.

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

Floormesh - Expanded Metal.

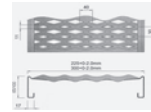


Expanded Metal - Gridmesh (Walkway Mesh.)

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

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

GRIPSPAN™ Grating.



GRIPSPAN™ GRATING BS4592:1970

Section 225mm	Dim "A" Depth mm	Dim "B" Return mm	Dim "C" To centre of holes mm	Material	Weight kg/m
6520	65	14	27	2.0mm Gal	6.40
6512	65	11	29	1.2mm Gal	4.03
6516 S/S	65	13	29	1.6mm S/S	5.18
10020	100	14	62	2.0mm Gal	7.60
10012	100	11	64	1.2mm Gal	4.71
10016 S/S	100	13	64	1.6mm S/S	6.08
10025 A	100	12	58	2.5mm Alum	3.20
6525 A	65	12	27	2.5mm Alum	2.70

Dimension "A" is the depth of the product. Dimension "B" is the size of return on leg. Dimension "C" is to centreline of side holes
 Slip resistant - Lightweight to handle - Fast & economical to install - Also available in 300mm widths (Details shown are for 225mm)
 The bridged struts with side channels form a plank which can support loads with little transverse or longitudinal deflection.
 Being roll-formed from one piece of metal there are no rivets or welded joints to break or loosen. This sturdy construction ensures large load carrying capacity over long, unsupported spans.

Alu-Tread™ (Aluminium roof walkway).



Alu-Tread™ (AS 1657:1992) Aluminium Panels and Stair Treads.

Description	Series 13 - 13mm	Series 22 - 22mm	Series 30 - 30mm	Series 40 - 40mm
Alu-Tread extruded aluminium is a light weight flooring system which has a wide range of applications.	Width 600mm Length 6000mm Weight 28kg/panel	Width 600mm Length 6000mm Weight 35kg/panel	Width 500mm Length 6000mm Weight 38kg/panel	Width 500mm Length 6000mm Weight 44kg/panel



Baltube Handrailing.

Baltube Handrail System - AS 1657-1992

Stanchion Codes			Description	Std Duty Post 3.2mm W/T	Hvy Duty Post 4.0mm W/T
Weldlok	Locker	Webforge			
BP	P	P	Horizontal Base Plate Stanchion - Straight Railing	4.8	5.3
BPA	PA	PA	Horizontal Base Plate Stanchion - Angled Railing	4.8	5.3
BPAM	AM	AM	Angle Mounted Base Plate - Angled Railing	4.5	5.0
C	C	C	Collar/Cored Stanchion - Straight Railing	4.9	5.4
CA	CA	CA	Collar/Cored Stanchion - Angled Railing	4.9	5.4
W	W	W	Welded Stanchion - Straight Railing	3.9	4.4
WA	WA	WA	Welded Stanchion - Angled Railing	3.9	4.4
WAA	AMW	AMW	Angle Mounted Welded Base - Angled Railing	3.9	4.4
SM	S	S	Side Mounted Stanchion - Straight Railing	5.0	5.6
SMAR/L	SAR/L	SAR/L	Side Mounted Stanchion - Angled Railing	5.3	5.9
SMO	SO	SO	Offset Side Mounted Stanchion - Straight Railing	5.3	5.9
SMOAR/L	SOAR/L	SOAR/L	Offset Side Mounted Stanchion - Angled Railing	4.9	5.4
SMC	SC	SC	Side Mounted Conveyor Stanchion - Straight Railing	4.9	5.4
PC	P	PC	Platform Corner Welded Base Plate - Straight Railing	3.9	4.4
SBBP	ORS	L	Single Ball Base Plate Stanchion - Straight Railing	1.7	2.0
SBSM	ORH	K	Single Ball Side Mounted Stanchion - Straight Railing	2.0	2.3
SBH	ORS/DOSO	M	Single Ball Offset Stanchion - Straight Railing	1.3	-

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.

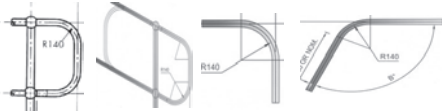
The standard drilling for rails are:- Top Rail 32 NB Med (42.4mm OD) and a mid rail of 25 NB Med (33.7mm OD)

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

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

Standard finish is Hot Dipped Galvanized to AS/NZS 4680:2006

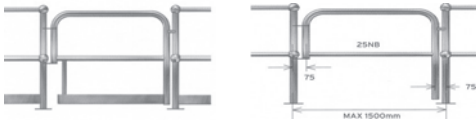
The maximum recommended spacing for stanchions is 2.000m.



Handrail End Closure Bends.

Handrail End Closure Bends.

Weldlok	Locker	Webforge	Description	kg/25 NB	kg/32 NB
SB	SB	RB	Standard 90° Bend	1.4	1.8
SBA	SBA	RBA	Standard Angled Bends	1.4	1.8
CB	CB	HCB	Horizontal Closure Bends	2.2	2.8
CBA	CBA	ACB	Top or Bottom Closure Bends - Angled	2.2	2.8



Self Closing Safety Gates.

Handrail self Closing Safety Gates.

Safety Gate	Description	kg/ea
Self Closing Gates - With	Safety Gate - With Kickplate(Max 1500mm to centre of post supports)	15
Self Closing Gates - Without	Safety Gate - Without Kickplate(Max 1500mm to centre of post supports)	12

When ordering a self closing gate, it is essential to nominate the direction of the swing.

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

Perforated Sheeting - Round Holes.



Perforated Sheeting - Metals & Non Metals Perforated. (Round Holes only shown).

Key to Table.

- Available in Standard Sheet size.
- Available in Standard & Listed Sheet size.
- Available in 1830 x 915mm size only.
- Available in 2440 x 915mm size only.

Available 915mm wide coil. **C3** Available 1220mm wide coil. **C4**
 Aluminium stock available in metric 1800 x 900mm.

Standard sheet size may be 6'x4', 8'x3', 8'x5', 10'x3', 10'x4', 10'x5' (Please check)

Details courtesy of The Locker Group.

ROUND HOLES - Mild Steel (MS)				Sheet thickness in mm.							
Pattern No.	Dia. mm	Pitch mm	Open Area%	1.0	1.2	1.6	2.0	2.5	3.0	5.0	6.0
R01623	1.60	3.20	23%								
R01636	1.60	2.54	36%								
R01637	1.60	2.50	37%								
R02040	2.00	3.00	40%								
R02440	2.41	3.66	40%								
R03230	3.25	5.59	30%								
R03240	3.25	4.78	40%								
R03325	3.25	6.10	25%								
R03341	3.25	4.78	41%								
R03346	3.25	4.52	46%								
R04046	3.97	5.59	46%								
R04833	4.76	7.92	33%								
R04851	4.76	6.35	51%								
R06440	6.35	9.53	40%								
R06446	6.35	8.89	46%								
R06451	6.35	8.50	51%								
R07962	7.94	9.55	62%								
R08047	8.00	11.11	47%								
R09523	9.53	19.05	23%								
R09540	9.50	14.30	40%								
R09551	9.50	12.70	51%								
R12740	12.70	19.05	40%								
R12748	12.70	17.46	48%								
R12749	12.70	17.27	49%								
R19151	19.05	25.4	51%								
R25448	25.4	35.0	48%								

ROUND HOLES - Stainless T316 (S6)				Sheet thickness in mm.									
Pattern No.	Dia. mm	Pitch mm	Open Area%	0.30	0.45	0.50	0.55	0.70	0.80	0.90	1.00	1.20	1.50
R02440	2.38	3.57	40%										
R03230	3.25	5.59	30%										
R03240	3.25	4.78	40%										
R03342	3.25	4.76	42%										
R04851	4.76	6.35	51%										

ROUND HOLES - Stainless T304 (S4)				Sheet thickness in mm.									
Pattern No.	Dia. mm	Pitch mm	Open Area%	0.30	0.45	0.50	0.55	0.70	0.80	0.90	1.00	1.20	1.50
R00520	0.50	1.07	20%										
R01025	1.02	1.93	25%										
R01636	1.60	2.54	36%										
R01637	1.60	2.54	36%										
R02141	2.06	3.10	41%										
R02411	2.38	9.52	11%										
R02440	2.38	3.57	40%										
R03230	3.25	5.59	30%										
R03240	3.25	4.78	40%										
R03346	3.25	4.52	46%										
R04851	4.76	6.35	51%										
R06440	6.35	9.55	40%										
R06451	6.35	8.50	51%										
R09540	9.50	14.30	40%										
R12749	12.70	17.27	49%										

ROUND HOLES - Aluminium (A5)#				Sheet thickness in mm.									
Pattern No.	Dia. mm	Pitch mm	Open Area%	0.6	0.8	1.0	1.2	1.6	2.0	3.5	3.0		
R00831	0.81	1.40	31%										
R02411	2.38	9.52	11%										
R02440	2.38	3.57	40%										
R03210	3.25	9.65	10%										
R03230	3.25	5.59	30%										
R03240	3.25	4.78	40%										
R04851	4.76	6.35	51%										
R09540	9.50	14.30	40%										
R09551	9.50	12.70	51%										

Aluminium stock is available in metric size sheets only.

ROUND HOLES - Galvabond (GB)				Sheet thickness in mm.							
Pattern No.	Dia. mm	Pitch mm	Open Area%	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.0
R01636	1.60	2.54	36%								
R01637	1.60	2.50	37%								
R02040	2.00	3.00	40%								
R02411	2.38	9.52	11%								
R02440	2.38	3.57	40%								
R03230	3.25	5.59	30%								
R03240	3.25	4.78	40%								
R04851	4.76	6.35	51%								
R06440	6.35	9.53	40%								
R06451	6.35	8.50	51%								
R07962	7.94	9.55	62%								
R08047	8.00	11.11	47%								
R09540	9.50	14.30	40%								
R09551	9.50	12.70	51%								
R12749	12.70	17.27	49%								

ROUND HOLES - Zincanell (ZA)				Sheet thickness in mm.								
Pattern No.	Dia. mm	Pitch mm	Open Area%	0.3	0.45	0.50	0.55	0.70	0.80	1.00	1.20	1.50
R02411	2.38	9.52	11%									
R03230	3.25	5.59	30%									
R04851	4.78	6.35	51%									

ROUND HOLES - Zincseal (ZS)				Sheet thickness in mm.								
Pattern No.	Dia. mm	Pitch mm	Open Area%	0.3	0.45	0.50	0.55	0.70	0.80	1.00	1.20	1.50
R01637	1.60	2.50	37%									
R02036	1.95	3.10	36%									
R02141	2.06	3.10	41%									
R02411	2.38	9.52	11%									



Fine Woven Meshes.

Fine Woven Wire Mesh - Animal Floor Mesh.

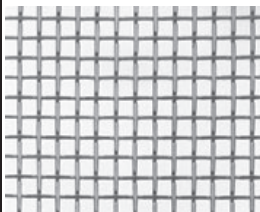
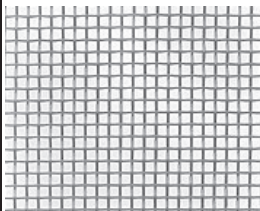
These products may be available from the supplier, only. They may not be a stock item at most steel outlets.

Woven Wire Mesh sheets can be used in many architectural applications, balustrades, sun-shades, feature panels etc.

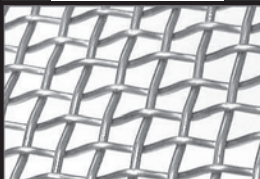
Flooring panels may be fixed to supports with a spring clip (ex supplier) or alternatively welded directly to the supports.

Safety Note.

All cut and sharp edged meshes will need to be protected or flush ground.



Animal Floor Mesh.



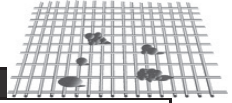
Mesh Specification.							Material Finish.			
Aperture mm	Mesh*	Gauge	Wire Diameter mm	Approx % Open Area	Approx Mass kg/m ²	Steel Sheets		Stainless Steel		
						Galv.	Steel.	T304	T316	
25	1 1/8	10	3.15	79	4.5				A	
22.4	1	10	3.15	77	4.9	A			A	
19	7/8	12	2.5	78	3.7				A	
18	3/4	14	2.0	81	2 1/2	A				
16	3/4	10	3.15	70	6.6	A	A			
12.5	5/8	10	3.15	64	5.1	A				
11.2	2	16	1.6	76	2.5	A#		A		
10.0	2	12	2.5	64	6.4	A			A	
10.0	2	14	2.0	70	4.2	A		A		
7.1	3	16	1.6	67	3.7	A		A		
7.1	3	18	1.2	73	2.4			A		
6.3	3	14	2.0	58	6.1	A		A		
5.0	4	16	1.6	57	4.9	A		A	A	
5.0	4	16	1.25	64	3.2	A#		A	A	
4.0	5	18	1.2	58	3.8	A		A		
3.55	5	16	1.6	46	6.3			A		
3.15	6	20	0.9	60	2.5	A		A		
3.15	6	16	1.6	48	6.3			A		
2.5	8	22	0.71	60	2.0			A		
2.50	8	24	0.56	67	1.3	A				
2.24	8	20	0.9	51	3.3	A#		A		
2.0	10	24	0.56	60	1.6			A		
2.0	10	26	0.45	67	1.1			A		
1.8	12	24	0.56	55	1.9	A		A		
1.6	12	24	0.56	55	1.9	A		A		
1.6	12	26	0.45	61	1.6	A		A		
1.25	14	24	0.56	47	2.2			A		
1.25	16	28	0.36	61	1.0	A		A		
1.12	16	26	0.45	51	1.6			A		
1.0	16	24	0.56	41	2.60			A		
0.90	20	28	0.36	51	1.3	A		A		
0.80	20	26	0.45	41					A	
0.71	20	24	0.56	31	3.10				A	
0.71	24	30	0.32	48	1.20	#		A		
0.63	24	26	0.63	35	2.40			A		
0.56	30	32	0.28	44.0	1.20			A		
0.50	30	30	0.32	38.0	1.50	#		A		
0.40	40	34	0.22	41.0	1.00	#		A		
0.25	60	37 1/2	0.16	37.0	0.80	#		A	A	
0.18	80	39	0.13	38.0	0.70			A	A	

Items marked A# are also available in Brass. The weight per metre square are indicative only.

* The number of square openings per linear inch. (25.4 mm) Details courtesy of the Locker Group.

Other mesh uses are animal flooring, Cattle & Sheep flooring, Weaner flooring and Farrowing flooring.

Heavy Duty Screen Cloths.



Woven Wire Mesh Products.

Apertures Specification Table by Wire Diameter.

2.00 mm	2.50 mm		3.15 mm		4.00 mm		5.00 mm		6.30 mm		8.00 mm		9.00 mm		10.00 mm		11.20 mm		12.50 mm			
	Actual	% Open	Actual	% Open	Actual	% Open	Actual	% Open	Actual	% Open	Actual	% Open	Actual	% Open	Actual	% Open	Actual	% Open	Actual	% Open		
2.10	28	4.00	4.00	40	4.70	37.75	6.30	38.3	9.00	42.5	12.70	44.5	20.50	51	22.50	51.25	28.00	55	38.00	59.25	36.25	55.3
2.50	33.5	4.70	44.5	5.00	41	7.00	40	10.00	45.3	13.50	46.5	21.00	52	24.00	53	30.40	57	39.50	61	38.50	56.3	
2.90	36	5.00	47	5.50	42.25	7.10	41.5	10.50	46.75	14.00	48	22.0	53	27.50	57.5	32.50	50	42.50	62.75	41.50	59.1	
3.15	38	5.60	49	6.30	46	8.00	45	11.20	48	14.30	49	22.2	52.75	29.00	59	35.00	61	45.00	64	44.00	60.6	
3.50	40.5	6.00	51	7.10	49	8.80	47.75	11.60	50	15.80	51.5	24.0	56	32.00	60.5	39.00	63	50.80	65.5	46.50	62.1	
3.80	45	6.30	52	8.00	52	9.50	50.3	12.30	50.5	18.00	54.3	25.4	57.5	33.80	82.5	40.00	64.5	52.00	67	49.50	63.7	
4.50	49.5	7.10	55	8.80	55	10.00	51.75	12.70	51.75	19.50	56.5	26.5	59.75	34.40	63.5	43.50	66.25	57.00	69.75	55.80	66.7	
5.00	51	7.60	57.75	9.50	57.5	11.20	55.5	14.00	53.75	20.00	57.8	28.80	61.5	37.20	64.5	49.50	69	65.00	72.75	82.00	75.3	
5.60	54	8.00	58	10.00	58.75	11.50	56.25	14.30	56.25	20.60	58.25	30.5	63	40.00	66.25	52.00	70.25	76.00	76			
6.00	57	8.75	60.5	10.30	59	12.00	56.5	15.50	57.75	22.00	62	32.0	64.5	41.80	67.5	58.00	73					
6.30	59.5	9.80	63.5	11.20	61	12.70	58.5	15.60	58	23.40	61.3	34.9	66.25	44.40	69.25							
6.80	60.5			12.00	63.75	13.20	59	16.80	60.5	24.00	62.5	37.0	68	50.00	71.75							
7.50	63			12.70	84.25	13.40	60	19.00	62.3	25.40	64	40.0	70	53.00	73							
8.00	65			13.00	65	14.75	62	20.00	65	27.00	65.5	42.80	71	60.00	75.25							
				14.00	67.25	15.50	64	21.25	65.50	28.00	67.3	45.00	72.5									
				14.60	67.5	17.00	65.5	21.75	66.75	30.50	69	50.00	74.5									
				15.50	69.5	17.80	67.25	22.20	67.25	31.50	70.3	54.00	76									
						19.50	69	23.00	68	34.00	72											
								25.00	69.5													

Plain Weave. The most popular weave for heavy-duty screen cloths that gives precise, efficient screening.
 Inter Crimp Weave. For large apertures using light gauge wire - only used for light screening applications.
 Flatex Weave. The smooth surface of this weave gives minimum resistance to material flow and wears more evenly.
 Triple Shoot Weave. A long slot weave that provides light gauge screens with maximum screening performance.


Materials generally used are High Tensile Steel, Galvanized and Stainless Steel T304.



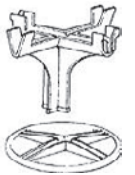
Reinforcing Bar Chairs.

Plastic Clip Fast Spacers and Deck Chairs.


PLASTIC CLIP FAST SPACERS.

	Product Name	Height	Std Pack	SAP Code	SAP Search Description.
	CFB20	20	100	178027	CON-BCHAIR-CLIPFAST-B* Suitable for bars 12mm to 16mm diameter. Use for suspended slabs.
CFB25	25	100	168662		
CFB32	32	100	167974		
CFB40	40	100	167975		
CFB50	50	100	160405		
CFB65	65	100	167976		
CFB75	75	100	176167		
CFBP40	40	100	110558	Suitable for bars 20mm to 36mm diameter. Use for beams and columns.	
CFBP50	50	100	110559		


PLASTIC CLIP FAST SPACERS.

	Product Name	Height	Std Pack	SAP Code	SAP Search Description.
	CFM20	20	100	178029	CON-BCHAIR-CLIPFAST-M* "M" style mesh support. Use for precast and tilt up panels.
CFM25	25	100	176168		
CFM32	32	100	178030		
CFM40	40	100	167977		
CFM50	50	100	137467		
CFM65	65	100	167978		
CFM75	75	100	167979		
CFSBASE	Plastic Base	100	178028	CON-BCHAIR-CLIPFAST-BASE	

PLASTIC DECK CHAIRS.

	Product Name	Height	Std Pack	SAP Code	SAP Search Description.
	PDS20	20/25	100	178055	CON-DCHAIR-PLAS* Used in supporting top and bottom reinforcing. Use for suspended slabs.
PDS25	25/30	100	178056		
PDS30	30/40	100	178057		
PDS35	35/45	100	178058		
PDS40	40/50	100	178059		
PDS65	65/75	100	178061		
PDS90	90/100	100	178062		
PDS110	110/120	100	178063		
PDS130	130/140	100	178064		
PDS150	150/160	100	178065		
PDS170	170/180	100	178066		
PDS190	190/200	100	178067		

METAL BASES.

	Product Name	Height	Std Pack	SAP Code	SAP Search Description.
	BASE152	20-140	100	155766	CON-BCHAIR-METAL-BASE*
BASE224	150-220	50	168259	Sheet metal bases - use with wire bar chairs.	

Reinforcing Bar Chairs. (cont.)



Plastic Fastwheel Spacers and Slab on Ground Chairs.

FASTWHEEL PLASTIC SPACER.

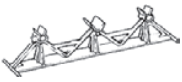
SAP Search Description.	Product Name	Bar Size.	SAP Code
<p>CON-FASTWHEEL*</p> <p>Used to clip onto fitments.</p> <p>Best used for columns and piers.</p>	FW2012	4 - 12	171482
	FW2512	4 - 12	176200
	FW3012	8 - 12	176201
	FW3020	8 - 20	190498
	FW4012	4 - 12	168261
	FW4020	8 - 20	176202
	FW5012	4 - 12	168262
	FW5020	8 - 20	176203
	FW6012	6 - 12	171483
	FW7512	4 - 12	171484
FW7520	4 - 20	176205	



PLASTIC TIPPED WIRE CHAIRS.

SAP Search Description.	Product Name	Bar Size.	SAP Code
<p>CON-BCHAIR-BCPT*</p> <p>Four leg wire supports.</p> <p>Used for Top and Bottom reinforcing.</p>	BCPT20	20	137457
	BCPT25	25	110551
	BCPT30	30	167980
	BCPT40	40	137458
	BCPT45	45	179374
	BCPT50	50	143355
	BCPT60	60	179375
	BCPT65	65	137459
	BCPT75	75	110554
	BCPT90	90	176156
<p>Used with flat metal bases.</p> <p>CON-BCHAIR-BCPT*</p> <p>Four leg wire supports.</p>	BCPT100	100	110550
	BCPT110	110	155767
	BCPT120	120	167981
	BCPT130	130	137463
	BCPT140	140	167982
	BCPT150	150	155768
	BCPT160	160	176157
	BCPT170	170	176158
	BCPT180	180	160404
	BCPT190	190	176159
<p>Use for Top and Bottom reinforcing.</p> <p>Used with flat metal bases.</p>	BCPT200	200	137464
	BCPT220	220	167983
	BCPT240	240	137465
	BCPT260	260	176162
	BCPT280	280	177184
	BCPT300	300	137466
	BCPT320	320	176164
	BCPT340	340	178026
BCPT360	360	179380	





Reinforcing Bar Chairs & Accessories.

Slab on Ground, Trench Mesh Supports & Accessories.

SLAB ON GROUND SPACERS.

	Product Code	Height	Std Pack	SAP Code	SAP Search Description.
	SOG2540	25/40	100	110552	CON-BCHAIR-PLAS-SOG* Suitable for meshes or bar reinforcing. Used for slabs placed on the ground.
	SOG5065	50/65	100	143353	
	SOG7590	75/90	100	143354	
	SOG85100	85/100	100	110556	
	SOG105110	105/110	100	137452	
	SOG115120	115/120	100	137453	
	SOG125130	125/130	100	137454	
	SOG135140	135/140	100	137455	
SOG145150	145/150	100	137456		

TRENCH MESH SUPPORTS.

	Product Code	Width	Std Pack	SAP Code	SAP Search Description.
	TMS65	290	20	109530	CON-TRENCH-MESH-SUPP-ALL* Used with trench mesh and Z cages.

CONCRETE ASPRO CHAIRS.

	Product Code	Height	Std Pack	SAP Code	SAP Search Description.
	ASPW40	40	100	176154	CON-BCHAIR-ASPRO* Dual height concrete block spacers.
	ASPW50	50	100	176155	
	ASPW65	65	100	178024	
	ASPW75	75	100	177754	

BAR GUARDS.

	Product Code	Size Bar	Std Pack	SAP Code	SAP Search Description.
	BARGUARD	12 to 36mm	100	137447	CON-CAP-BARGUARD* End cap for reinforcing bar. Also suits Fence Posts/Pickets.

REO SOKS.

	Product Code	Bar Size	Std Pack	SAP Code	SAP Search Description.
	RS1220	12 to 20	50	168174	CON-CAP-REO-SOK* Removable safety cap. RS2432 will also fit Star® pickets.
	RS2432	24 to 32	50	168175	

BOND BEAM ACCESSORIES.

	Product Code	Description	Std Pack	SAP Code	SAP Search Description.
	WTBBV80	"V" Tie	100	178092	CON-WALL-TIE-TYPE*
	WTBBW2	"W" Tie	100	178093	CON-WALL-TIE-TYPE*
	BLCKPLATE	K O Plate	100	178494	GEN-MISC-PLATE-WALL-BLOCK-OUT
	RTPLATE	Truss Plate	▲ Please check ▼	178496	GEN-MISC-ROOF-TRUSS-PL-16-20
	HB235	Hook Bar	178532	REO-BAR-HOOK-D500N*	
HB435	Hook Bar	178533	REO-BAR-HOOK-D500N*		

Bondek® & Accessories.



Bondek® Decking.

LYSAGHT Bondek® is a high strength structural steel decking manufactured from zinc coated steel to AS1397.

Available in three thicknesses, Bondek® is suitable for domestic applications such as home units and town houses, as well as commercial construction in steel-framed and concrete-framed buildings.

Lengths can be custom cut to suit project requirements. Acts as permanent formwork with minimal propping.

Length range is 600mm to 10.000 metres.

Excellent spanning capacities.

Fast and easy to install (590mm coverage).

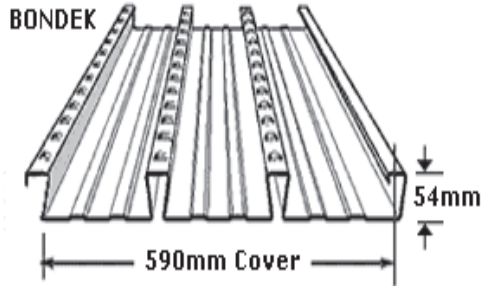
Works as a composite slab saving on concrete and reinforcing costs.

Durable galvanized coating.

With ribs at 200mm centres, this creates a safe working platform with slip resistant embossing on ribs.

Installation of suspended services and ceilings without drilling into the concrete slab.

Reliable interlocking mechanism provides horizontal lapping for faster installation.



Material Specifications.

Thickness (mm)	SAP Code	Mass		Yield Strength MPa	Coverage m ² /t
		kg/m ²	kg/m		
0.60	181219	8.52	5.03	550	117.37
0.75	181217	10.50	6.20	550	95.24
1.00	181218	13.79	8.14	550	72.52

Bondek® Accessories.

End Plugs.

Polyethylene end plugs stop concrete and air from entering the end of the ribs.



Bonwedge.

Lightweight bracket for rods to suspend ceilings or services (other than fire sprinkler systems). Max. Load: 100kg.

SAP Code - 179396 (Plated)



Bonstrip.

Plastic trim to cover gaps formed by ribs. Used when underside of Bondek® forms an exposed ceiling. Stock length: 3000mm



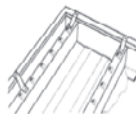
Edgeform.

A galvanized section that creates a permanent formwork at the slab edges - cut, mitred and screwed on site.

Stock slab depths: 100(176181), 125(176182),

150mm(176183) (others to special order).

Stock length: 6100mm

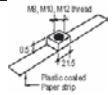


Bon-nut

Heavy duty square nut to suspend ceilings or services. Glued to a paper strip that makes insertion easy.

Threads: M8, M10 & M12

Loads: 390 to 670kg



Ceiling Suspension Nut.

Pressed metal threaded bracket to suspend ceilings or services.

Thread: M6 Max. Load. 270kg



Bonfill.

Polystyrene foam stops concrete and air from entering ends of ribs.

Stock length: 1200mm

Required: 300mm per sheet of Bondek.

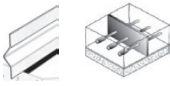


Brackets from builders strapping.

25mm x 1.0mm. Fixed with self-drilling hex. head.

Teks screws with drill points. 10-16 x 16


Required: 40 per length of Edgeform.




Crack Inducers, Dowels & Dowel Serts.

Crack Inducers, Dowels & Dowel Serts.


CRACK INDUCERS.

	Product Name	Description	Dimension	SAP Code	SAP Search Description.
	CRAKS253	Uncapped	25 x 3000	168169	CON-CRACK-IND-25-03000
	CRAKS453	Uncapped	45 x 3000	168170	CON-CRACK-IND-45-03000
Surface crack control strips for small pours.					


CRAK A JOINT.

	Product Name	Description	Colour	SAP Code	SAP Search Description.
	CRAKRS253	Rip a Strip	Black	176191	CON-CRACK-IND-CAP-BLK-25-03000
	CRAKRS253G	Rip a Strip	Grey	178051	CON-CRACK-IND-CAP-GRY-25-03000
	CRAKRS253S	Rip a Strip	Sandstone	178052	CON-CRACK-IND-CAP-SND-25-03000
	CRAKRS253T	Rip a Strip	Terracotta	178053	CON-CRACK-IND-CAP-TCO-25-03000
Fluted preformed metal crack inducer with capping, joiners and stakes.					


CRACK INDUCER ON GROUND.

	Product Name	Description	Dimension	SAP Code	SAP Search Description.
	CRAKGI15	Plastic Strip	3000 x 150	100009	No Known Code.
	CRAKGI25	Plastic Strip	3000 x 250	100009	No Known Code.
Designed to induce a crack in floor slab from the ground up.					

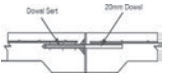
DOWEL BARS.

	Product Name	Bar Size	Length	SAP Code	SAP Search Description.
	DL16450FC	16	450	162809	REO-DOWEL-R250N-BLK-FC-16-450
	DL16600FC	16	600	178597	REO-DOWEL-R250N-BLK-FC-16-600
	DL20450FC	20	450	178711	REO-DOWEL-R250N-BLK-FC-20-450
	DL20600FC	20	600	171792	REO-DOWEL-R250N-BLK-FC-20-600
Black round bar used to control movements in joints of concrete slabs. Grade 250R friction cut.					


DOWEL BARS Galvanized.

	Product Name	Bar Size	Length	SAP Code	SAP Search Description.
	DL16450FCD	16	450	178608	REO-DOWEL-R250N-HDGAL-FC-16-450
	DL16600FCD	16	600	178609	REO-DOWEL-R250N-HDGAL-FC-16-600
	DL20450FCD	20	450	178612	REO-DOWEL-R250N-HDGAL-FC-20-450
	DL20600FCD	20	600	178613	REO-DOWEL-R250N-HDGAL-FC-20-600
Hot dipped galvanized round bar used to control movement in joints - as above.					

DOWEL SERTS.

	Product Name	Bar Size	Length	SAP Code	SAP Search Description.
	DWLSERT16	16	310	162833	CON-DOWEL-SERT-16-200-400
	DWLSERT20	20	310	162834	CON-DOWEL SERT-20-300-600
Nail on, two part, black plastic sleeve for dowels.					

DOWEL EXPANSION CAPS.

	Product Name	Bar Size	Std Pack	SAP Code	SAP Search Description.
	CONCAP12	12	100	109516	CON-EXP-CAP-12
	CONCAP16	16 to 20	100	167973	CON-EXP-CAP-16
	CONCAP24	24	100	176197	CON-EXP-CAP-24
A plastic cap with a hinged end, to fit over a round bar, creating a void at the end of the dowel bar.					

Dowel Sleeves & Square Dowel Bars.



Dowel Sleeves & Square Dowel Bars.

DOWEL SLEEVES UNIVERSAL.

SAP Search Description.	Product Name	Description	SAP Code
CON-KEY-JNT-DOWEL-SLV-RD-16	KJUDS16R	16x300 Round	179461
CON-KEY-JNT-DOWEL-SLV-RD-20	KJUDS20R	20x300 Round	179462
CON-KEY-JNT-DOWEL-SLV&BOOT-SQ-20	KJUDS20S	20x300 Square	179463
CON-KEY-JNT-DOWEL-SLV-BOOT	KJUDSB	50 MF Boot	179460



Universal Dowel Sleeves

Full length dowel sleeve for joining round or square dowels. Colour coded.

DOWEL SPEED SLEEVES.

SAP Search Description.	Product Name	Description	SAP Code
CON-DOWEL-SPEED-SLV-RD-16-240	SSR1623	16x240 Round	181161
CON-DOWEL-SPEED-SLV-RD-16-310	SSR1630	16x310 Round	181162
CON-DOWEL-SPEED-SLV-RD-20-240	SSR2023	20x240 Round	100009
CON-DOWEL-SPEED-SLV-RD-20-310	SSR2030	20x300 Round	181164
CON-DOWEL-SPEED-SLV-RD-NAIL-PL-16	SSNP16	16 Nail Plate	181159
CON-DOWEL-SPEED-SLV-RD-NAIL-PL-20	SSNP20	20 Nail Plate	181160



Round dowel sleeves with reusable nailing plates.

SQUARE DOWEL BARS - Black.

SAP Search Description.	Product Name	Description	SAP Code	Photos for illustration.
No Known Code.	DQ16300FC	16 x 300	100009	
REO-DOWEL-MS-BLK-FC-SQ-16-400	DQ16400FC	16 x 400	178586	
REO-DOWEL-MS-BLK-FC-SQ-16-450	DQ16450FC	16 x 450	178587	
REO-DOWEL-MS-BLK-FC-SQ-16-500	DQ16500FC	16 x 500	178588	
No Known Code.	DQ16600FC	16 x 600	100009	
No Known Code.	DQ20300FC	20 x 300	100009	
REO-DOWEL-MS-BLK-FC-SQ-20-400	DQ20400FC	20 x 400	177044	
No Known Code.	DQ20450FC	20 x 450	100009	
REO-DOWEL-MS-BLK-FC-SQ-20-500	DQ20500FC	20 x 500	177045	
REO-DOWEL-MS-BLK-FC-SQ-20-600	DQ20600FC	20 x 600	191653	
No Known Code.	DQ25300FC	25 x 300	100009	
No Known Code.	DQ25400FC	25 x 400	100009	
No Known Code.	DQ25500FC	25 x 500	100009	
No Known Code.	DQ25600FC	25 x 600	100009	

Black square friction cut dowels used to control movement in joints of concrete slabs.

SQUARE DOWEL BARS - Galvanized.

SAP Search Description.	Product Name	Description	SAP Code	Photos for illustration.
REO-DOWEL-MS-HDGAL-FC-SQ-16-400	DQ16400FCD	16 x 400	178589	
No Known Code.	DQ16450FCD	16 x 450	100009	
No Known Code.	DQ16500FCD	16 x 500	100009	
No Known Code.	DQ16600FCD	16 x 600	100009	
No Known Code.	DQ20400FCD	20 x 400	100009	
No Known Code.	DQ20450FCD	20 x 450	100009	
REO-DOWEL-MS-HDGAL-FC-SQ-20-500	DQ20500FCD	20 x 500	177046	
REO-DOWEL-MS-HDGAL-FC-SQ-20-600	DQ20600FCD	20 x 600	178590	
No Known Code.	DQ25400FCD	25 x 400	100009	
No Known Code.	DQ25500FCD	25 x 500	100009	
Galvanized dowels as above.	DQ25600FCD	25 x 600	100009	

Dowel Master and Dowel Accessories.

Dowel Master and Dowel Accessories.

DOWEL MASTER.

Product Name	Description	Std Pack	SAP Code	SAP Search Description.
DLMMASTER16	Square 16	100	100009	No Known Code
DLMMASTER20	Square 20	100	100009	No Known Code
NAILPLT16	Nail Plate	100	176935	GEN-MISC-PLATE-NAIL-DOWELMSTR-16
NAILPLT20	Nail Plate	100	180062	GEN-MISC-PLATE-NAIL-DOWELMSTR-20
Square plastic sleeve for square steel dowels.				

DOWEL COVERS SQUARE METAL.

Product Name	Description	Std Pack	SAP Code	SAP Search Description.
DQ16400CV	16 x 200	100	176192	CON-DOWEL-CVR-SQ-16-200
DQ16500CV	16 x 250	100	100009	No Known Code
DQ16600CV	16 x 300	100	100009	No Known Code
DQ20400CV	20 x 200	100	100009	No Known Code
DQ20500CV	20 x 250	100	176193	CON-DOWEL-CVR-SQ-20-250
DQ20600CV	20 x 300	100	100009	No Known Code
DQ25400CV	25 x 200	100	100009	No Known Code
DQ25500CV	25 x 250	100	100009	No Known Code
DQ25600CV	25 x 300	100	100009	No Known Code
Square metal cover for square dowels.				

DIAMOND DOWELS & SLEEVES.

Product Name	Description	Std Pack	SAP Code	SAP Search Description.
DDPLT06B	110x6 Blk	25	100009	No Known Code
DDPLT06D	110x6 Gal	25	100009	No Known Code
DDPLT10B	110x10 BLK	15	176933	GEN-MISC-PLATE-NAIL-DDOWEL-BLK-110-110
DDPLT10D	110x10 Gal	15	176934	GEN-MISC-PLATE-NAIL-DDOWEL-GAL-110-110
High performance steel plate dowel system for joints in concrete slabs. All plates include sleeves.				

DOWEL ACCESSORIES.

Product Name	Description	Std Pack	SAP Code	SAP Search Description.
KJTDC	Truline Dowel Cap	50	100009	No Known Code
		12-20 x 50		
Truline dowel cap aids in maintaining correct alignment of dowels.				
KJSMATE	Steelmate	90	100009	No Known Code
		35 mm		
Steelmate bar stabiliser provides a quick anchorage point for starter bars.				

DOWEL CRADLES.

Product Name	Dowel Size	Dimension	SAP Code	SAP Search Description.
No Code	Square & Round	2400-3000	100009	No Known Code
Prefabricated dowel cradle suits both square & round dowels. Suit slabs 150 - 200mm.				

DOWEL PLATE CRADLES.

Product Name	Description	Dimension	SAP Code	SAP Search Description.
DCPL06150B	Black	3000 x 6	193052	CON-KEY-JNT-DOWEL-CRADLE-PL-150
DCPL10150B	Black	3000 x 10	100009	No Known Code
DCPL06150D	Galvanized	3000 x 6	100009	6mm dowels @ 450mm centres. 150mm slab
DCPL10150D	Galvanized	3000 x 10	100009	10mm dowels @ 500mm centres. 150mm slab

Expansion Jointing & Key Joints.

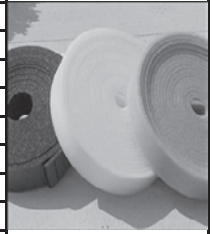


Expansion Jointing & Key Joints.

FLEXIBLE EXPANSION JOINTING.

SAP Search Description - SAP Code.	Product Name	L x W x t	Description
No Known Code - 100009	JFZ1050	25mx50mmx10mm	Zipped
CON-JF-FOAM-ZIP-010-075-25000 - 178074	JFZ1075	25mx75mmx10mm	Zipped
CON-JF-FOAM-ZIP-010-100-25000 - 178075	JFZ10100	25mx100mmx10mm	Zipped
No Known Code - 100009	JFZ10125	25mx125mmx10mm	Zipped
CON-JF-FOAM-ZIP-010-150-25000 - 178077	JFZ10150	25mx150mmx10mm	Zipped
CON-JF-FOAM-ZIP-010-200-25000 - 178078	JFZ10200	25mx200mmx10mm	Zipped
No Known Code - 100009	JFZ10250	25mx250mmx10mm	Zipped
No Known Code - 100009	JFZ10300	25mx300mmx10mm	Zipped
No Known Code - 100009	JFZ12100	25mx100mmx12mm	Zipped
No Known Code - 100009	JFZ12150	25mx150mmx12mm	Zipped
No Known Code - 100009	JFZ12200	25mx200mmx12mm	Zipped
CON-JF-ADH-010-075-25000 - 190583	ZFA1075	25mx75mmx10mm	Adhesive
CON-JF-ADH-010-100-25000 - 176213	ZFA10100	25mx100mmx10mm	Adhesive
CON-JF-ADH-010-125-25000 - 192381	ZFA10125	25mx125mmx10mm	Adhesive
CON-JF-ADH-010-150-25000 - 176214	JFA10150	25mx150mmx10mm	Adhesive
CON-JF-ADH-010-200-25000 - 178073	JFA10200	25mx200mmx10mm	Adhesive

A flexible foam for joints in concrete slabs.



BITUMEN IMPREGNATED EXPANSION JOINT.

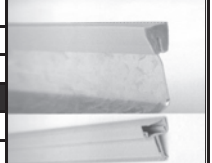
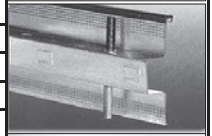
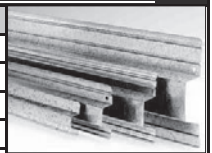
SAP Search Description - SAP Code.	Product Name	L x W x t	Description
CON-JF-DRY-010-075-02440 - 179442	JF1075	2440 x 75 x 10	Stiff Joint
CON-JF-DRY-010-100-02440 - 179443	JF10100	2440 x 100 x 10	Stiff Joint

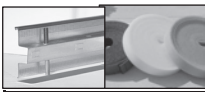
A stiff fibrous material that has been bitumen impregnated. Used in joints in concrete slabs.



KEY JOINTS & ACCESSORIES.

SAP Search Description - SAP Code.	Product Name	Dimension	Description
CON-KEY-JNT-8PW-100-6000 - 155771	KJC100	6000 x 100	Key Joint
CON-KEY-JNT-8PW-150-6000 - 137475	KJC150	6000 x 150	Key Joint
CON-KEY-JNT-8PW-200-6000 - 155772	KJC200	6000 x 200	Key Joint
CON-KEY-JNT-8PW-300-6000 - 179457	KJC300	6000 x 300	Key Joint
No Known Code - 100009	KJJ	100x35 (10)	Multifit Joinder
CON-KEY-JNT-PEG-WEDGE-150-QTY8 - 176223	KJCWEDGE	150 (8)	Wedge
CON-KEY-JNT-PEG-WEDGE-400-QTY8 - 178082	KJCPEG400	400 (8)	Peg & Wedge
No Known Code - 100009	KJCPEG500	500 (8)	Peg & Wedge
No Known Code - 100009	KJSTK450	450 x 10	K.J. Stake
<u>PVC Capping Permanent.</u>			
No Known Code - 100009	KJCCPB25	24m x 9mm x 13mm	Black/strip
<u>PVC Capping Removable.</u>			
No Known Code - 100009	KJCCRG25	24mx7.5mmx10mm	Grey
No Known Code - 100009	KJCCRG6	6.0mx2mmx14mm	Grey
Galvanized sheet metal profiles used in forming contraction joints in concrete footpaths.			
<u>PVC Rebate Moulds.</u>			
CON-KEY-JNT-REBATE-MLD-12-12 - 176224	KJRM12	3.0mx12mmx12mm	Yellow Rigid
No Known Code - 100009	KJRM20	3.0mx10mmx20mm	Grey Rigid





Key Joints & Accessories.

Key Joints & Accessories.

FOAM FILLER STRIPS.

	Product Name	Description	Dimension	SAP Search Description - SAP Codes.
	KJFC100	100mm	6mx30mmx12mm	CON-KEY-JNT-FILLER-100-06000 - 168166
	KJFC150	150mm	6mx40mmx12mm	CON-KEY-JNT-FILLER-150-06000 - 168167
	KJFC200	200/300mm	6mx50mmx12mm	CON-KEY-JNT-FILLER-200-06000 - 168168

EXPANSION JOINT.

	Product Name	Description	Dimension	SAP Search Description - SAP Codes.
	KJFXJ1024	Profile & foam	2400 x 100	No Known Code - 100009
	KJFXJ1030	Profile & foam	3000 x 100	No Known Code - 100009
	KJFXJDS	Sleeve/foot		No Known Code - 100009

KEY JOINT.

	Product Name	Description	Dimension	SAP Search Description - SAP Codes.
	KJD100	Key joint	6.0m x 100 (10)	CON-KEY-JNT-8PW-100-06000 - 155771
	KJD150	Key joint	6.0m x 150 (10)	CON-KEY-JNT-8PW-150-06000 - 137475
	KJD200	Key joint	6.0m x 200 (10)	CON-KEY-JNT-8PW-200-06000 - 155772
	KJD250	Key joint	6.0m x 250 (10)	CON-KEY-JNT-8PW-250-06000 - 177456
	KJD300	Key joint	6.0m x 300 (10)	CON-KEY-JNT-8PW-300-06000 - 179457

KEY JOINT CAPPING.

	Product Name	Description	Dimension	SAP Search Description - SAP Codes.
	KJDRS25B	Black	25m (2) - 155769	CON-KEY-JNT-CAP-PERM-BLK-10-12-25000
	KJDRS25G	Grey	25m (2) - 171337	CON-KEY-JNT-CAP-REM-GRY-07-10-25000
	KJDRS25S	Sandstone	25m (2)	No Known Code - 100009
	KJDRS25T	Terracotta	25m (2)	No Known Code - 100009
	KJDCR25	Rem Std	25m x 10mm (2)	CON-KEY-JNT-CAP-REM - 155769
	KJDCR1225	Rem Block	25m x 12mm (2)	No Known Code - 100009

STAKES.

	Product Name	Description	Dimension	SAP Search Description - SAP Codes.
	KJDEPG350	Stakes	10 x 350 (8)	No Known Code - 100009
	KJDEPG450	Stakes	10 x 450 (8)	No Known Code - 100009
	KJDEPG550	Stakes	10 x 550 (8)	No Known Code - 100009

EXPANDA JOINT.

	Product Name	Description	Dimension	SAP Search Description - SAP Codes.
	KJDEXP100	Expanda joint	3m x 100mm (10)	No Known Code - 100009
	KJDEXP125	Expanda joint	3m x 125mm (10)	No Known Code - 100009
	KJDEXP150	Expanda joint	3m x 150mm (10)	No Known Code - 100009
	KJDEXP200	Expanda joint	3m x 200mm (10)	No Known Code - 100009
	KJDEXP250	Expanda joint	3m x 250mm (10)	No Known Code - 100009

EXPANDA JOINT CUT.

	Product Name	Description	Dimension	SAP Search Description - SAP Codes.
	KJDEXP100C	Cut to size	100mm (10)	No Known Code - 100009
	KJDEXP125C	Cut to size	125mm (10)	No Known Code - 100009
	KJDEXP150C	Cut to size	150mm (10)	No Known Code - 100009
	KJDEXP200C	Cut to size	200mm (10)	No Known Code - 100009
	KJDEXP250C	Cut to size	250mm (10)	No Known Code - 100009

Sheet metal profile for load transfer from slab to slab. Plus capping and rebates to suit.

Galintel® - Solid Base & Rendabar Angles.



Galintel® - Solid Base & Rendabar Angles. Hot Dipped Galvanized.

* NB. All weights shown are approximate.

Galintel® - FLATS.

SAP Search Description.	Product Name	Length	kg/len*	SAP Code
LINFL-85-8-MRS-GAL-00800	Flat 85 x 8	800mm	4.00	138288
LINFL-85-8-MRS-GAL-00900	Flat 85 x 8	900mm	4.50	138289
LINFL-85-8-MRS-GAL-01000	Flat 85 x 8	1.000m	5.00	138290
LINFL-85-8-MRS-GAL-01100	Flat 85 x 8	1.100m	5.50	138291
LINFL-85-8-MRS-GAL-01200	Flat 85 x 8	1.200m	6.00	138292



Galintel® - ANGLES. 100x100x6mm

SAP Search Description.	Product Name	Length	kg/len*	SAP Code
LINAN-100-100-06-MRS-GAL-01200	100x100x6	1.200m	10.70	138259
LINAN-100-100-06-MRS-GAL-01500	100x100x6	1.500m	14.25	138260
LINAN-100-100-06-MRS-GAL-01800	100x100x6	1.800m	17.10	138261
LINAN-100-100-06-MRS-GAL-02100	100x100x6	2.100m	19.95	138262
LINAN-100-100-06-MRS-GAL-02400	100x100x6	2.400m	22.80	138263
LINAN-100-100-06-MRS-GAL-02700	100x100x6	2.700m	25.65	138264



Galintel® - ANGLES. 150x100x6mm

SAP Search Description.	Product Name	Length	kg/len*	SAP Code
LINAN-150-100-6-MRS-GAL-01800	150x100x6	1.800m	21.60	144088
LINAN-150-100-6-MRS-GAL-02100	150x100x6	2.100m	25.20	138273
LINAN-150-100-6-MRS-GAL-02400	150x100x6	2.400m	28.80	138274
LINAN-150-100-6-MRS-GAL-02700	150x100x6	2.700m	32.40	138275
LINAN-150-100-6-MRS-GAL-03000	150x100x6	3.000m	36.00	138276
LINAN-150-100-6-MRS-GAL-03300	150x100x6	3.300m	39.60	138277
LINAN-150-100-6-MRS-GAL-03600	150x100x6	3.600m	43.20	138278
LINAN-150-100-6-MRS-GAL-04000	150x100x6	4.000m	48.00	138279



Galintel® - RENDABAR ANGLE 100x100x8mm

SAP Search Description.	Product Name	Length	kg/len*	SAP Code
LINAN-100-100-8-REN-GAL-00900	100x100x8	900mm	7.20	138266
LINAN-100-100-8-REN-GAL-01200	100x100x8	1.200m	9.60	138267
LINAN-100-100-8-REN-GAL-01500	100x100x8	1.500m	12.00	138268
LINAN-100-100-8-REN-GAL-01800	100x100x8	1.800m	14.40	138269
LINAN-100-100-8-REN-GAL-02100	100x100x8	2.100m	16.80	138270
LINAN-100-100-8-REN-GAL-02400	100x100x8	2.400m	19.20	138271



Galintel® - RENDABAR ANGLE 150x100x8mm

SAP Search Description.	Product Name	Length	kg/len*	SAP Code
LINAN-150-100-8-REN-GAL-01800	150x100x8	1.800m	17.64	182649
LINAN-150-100-8-REN-GAL-02100	150x100x8	2.100m	20.58	138281
LINAN-150-100-8-REN-GAL-02400	150x100x8	2.400m	23.52	138282
LINAN-150-100-8-REN-GAL-02700	150x100x8	2.700m	26.46	138283
LINAN-150-100-8-REN-GAL-03000	150x100x8	3.000m	29.40	138284
LINAN-150-100-8-REN-GAL-03300	150x100x8	3.300m	32.34	138285
LINAN-150-100-8-REN-GAL-03600	150x100x8	3.600m	35.28	138286
LINAN-150-100-8-REN-GAL-04000	150x100x8	4.000m	39.20	179298





Building Products & Accessories.

Galintel® Tees - Uniflow Drainage & Building Products Accessories.

Galintel® MULTI-RIB T BAR.

Photos for illustration	Product Name	Length mm	Dimension	SAP Code - SAP Search Description.
	GLINT27	2700	200 x 200 x 7	140216 - TBAR-2007-2007-MRS-GAL-2700
	GLINT30	3000	200 x 200 x 7	140217 - TBAR-2007-2007-MRS-GAL-3000
	GLINT33	3300	200 x 200 x 7	140218 - TBAR-2007-2007-MRS-GAL-3300
	GLINT936	3600	200 x 200 x 9	177058 - TBAR-2009-2009-MRS-GAL-3600
	GLINT939	3900	200 x 200 x 9	180136 - TBAR-2009-2009-MRS-GAL-3900
	GLINT942	4200	200 x 200 x 9	180136 - TBAR-2009-2009-MRS-GAL-4200
	GLINT945	4500	200 x 200 x 9	178629 - TBAR-2009-2009-MRS-GAL-4500
	GLINT951	5100	200 x 200 x 9	140220 - TBAR-2009-2009-MRS-GAL-5100
	GLINT954	5400	200 x 200 x 9	140221 - TBAR-2009-2009-MRS-GAL-5400
	GLINT957	5700	200 x 200 x 9	140222 - TBAR-2009-2009-MRS-GAL-5700
	GLINT960	6000	200 x 200 x 9	152763 - TBAR-2009-2009-MRS-GAL-6000

UNIFLOW DRAINAGE.

Product Name	Description	SAP Code	SAP Search Description.
UNIS24	Slotted Grate	169789	GEN-MISC-UNI-SLOT-DRAIN-90-150-2400
UNIS30	Slotted Grate	169790	GEN-MISC-UNI-SLOT-DRAIN-90-150-3000
UNIS36	Slotted Grate	169791	GEN-MISC-UNI-SLOT-DRAIN-90-150-3600
UNICOUP	Slip Joint	169795	GEN-MISC-UNI-SNAP-ON-SLIP-JNT
UNIPEND	Pipe Flange	169793	GEN-MISC-UNI-SNAP-ON-PI-END-PL-90
UNIBLEND	Blank End	169792	GEN-MISC-UNI-SNAP-ON-BL-END-PL-90

Picture for illustration only

POLYTHENE BUILDING FILM.

Product Name	Description	SAP Code	SAP Search Description.
FS3425	Orange Super	176241	CON-POLY-SUPR-300UM-ORNG-4000-25000
FP2450	Orange Premium	176240	CON-POLY-PREM-200UM-ORNG-4000-50000
FB2450	Black Poly	137468	CON-POLY-IND-200UM-BLK-4000-50000
FB2250	Black Poly	167972	CON-POLY-IND-200UM-BLK-2000-50000
FBHI2450	High Impact Poly	176238	CON-POLY-HI-IMP-200UM-BLK-4000-50000
TPP30	Grey Duct Tape	137481	GEN-TAPE-JOINING-PVC-GRY-50-30000

POLYSTYRENE VOID FORMERS.

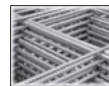
Product Name	Height	SAP Code	SAP Search Description.
ARCPOD175	175	176234	CON-POD-VOID-1090-1090-175
ARCPOD225	225	176235	CON-POD-VOID-1090-1090-225
ARCPOD300	300	176236	CON-POD-VOID-1090-1090-300
ARCPOD375	375	176237	CON-POD-VOID-1090-1090-375
RBAG	Rubbish Bag	178085	CON-POD-RUBBISH-BAG

PLASTIC SPACERS.

Product Name	Dimension	SAP Code	SAP Search Description.
PODSPA2	100 - 110	176231	CON-POD-SPCR-EDGE-2WAY
PODSPA4	100 - 300	176230	CON-POD-SPCR-4WAY
PODRAIL	600	179471	CON-POD-SPCR-PODFIX

* Uniflow Drainage details courtesy of the Graham Group.

Reinforcing Mesh & Bars, Trench Mesh.



Reinforcing Meshes RL & SL - Trench Meshes - Reinforcing Bar.

RECTANGULAR RIBMESH.

SAP Search Description.	Product Name	Long Wire mm	Cross Wire mm	Weight kg	Pack Size	SAP Number	Photo for illustration.
MESH-REO-RL1218-BLK-D500L-2400-6000	RL1218	11.9 @ 100	7.6 @ 200	157	10	152255	
MESH-REO-RL1118-BLK-D500L-2400-6000	RL1118	10.65 @ 100	7.6 @ 200	131	15	156254	
MESH-REO-RL1018-BLK-D500L-2400-6000	RL1018	9.5 @ 100	7.6 @ 200	109	15	161352	
MESH-REO-RL918-BLK-D500L-2400-6000	RL918	8.55 @ 100	7.6 @ 200	93	20	138332	
MESH-REO-RL818-BLK-D500L-2400-6000	RL818	7.6 @ 100	7.6 @ 200	79	20	109282	
MESH-REO-RL718-BLK-D500L-2400-6000	RL718	6.75 @ 100	7.6 @ 200	68	20	138331	

SQUARE RIBMESH.

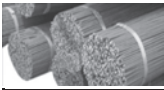
SAP Search Description.	Product Name	Long Wire mm	Cross Wire mm	Weight kg	Pack Size	SAP Number	Photo for illustration.
MESH-REO-SL81-BLK-D500L-2400-6000	SL81	7.6 @ 100	7.6 @ 100	105	20	109281	
MESH-REO-SL102-BLK-D500L-2400-6000	SL102	9.5 @ 200	9.5 @ 200	80	20	156265	
MESH-REO-SL92-BLK-D500L-2400-6000	SL92	8.55 @ 200	8.55 @ 200	65	20	109285	
MESH-REO-SL82-BLK-D500L-2400-6000	SL82	7.6 @ 200	7.6 @ 200	52	30	109283	
MESH-REO-SL72-BLK-D500L-2400-6000	SL72	6.75 @ 200	6.75 @ 200	40	40	109280	
MESH-REO-SL62-BLK-D500L-2400-6000	SL62	6.0 @ 200	6.0 @ 200	33	50	101856	
MESH-REO-SL52-BLK-D500L-2400-6000	SL52	4.75 @ 200	4.75 @ 200	21	50	109279	

TRENCH MESH.

SAP Search Description.	Product Name	Width	No. Wires	Weight kg	Pack Size	SAP Number	Photo for illustration.
MESH-TRENCH-L8TM3-BLK-D500L-200-6000	L8TM3	200	2	7	30	109291	
MESH-TRENCH-L8TM4-BLK-D500L-300-6000	L8TM4	300	4	9	30	138335	
MESH-TRENCH-L8TM5-BLK-D500L-400-6000	L8TM5	400	5	11	30	156266	
MESH-TRENCH-L11TM3-BLK-D500L-200-6000	L11TM3	200	3	13	30	109286	
MESH-TRENCH-L11TM4-BLK-D500L-300-6000	L11TM4	300	4	18	30	109287	
MESH-TRENCH-L11TM5-BLK-D500L-400-6000	L11TM5	400	5	22	30	109288	
MESH-TRENCH-L12TM3-BLK-D500L-200-6000	L12TM3	200	3	16	30	109589	
MESH-TRENCH-L12TM4-BLK-D500L-300-6000	L12TM4	300	4	22	30	109290	

REINFORCING BAR.

SAP Search Description.	Product Name	Stock Length (m)	SAP Number	m/t	Length per t	Photo for illustration purposes.
DB-12-D500N-6000	N12S6	6.0	100095	1088	181	
DB-12-D500N-9000	N12S9	9.0	136814	1088	121	
DB-16-D500N-6000	N16S6	6.0	100111	612	102	
DB-16-D500N-9000	N16S9	9.0	100113	612	68	
DB-16-D500N-12000	N16S12	12.0	153936	612	51	
DB-20-D500N-12000	N20S12	12.0	136818	392	32	
DB-24-D500N-12000	N24S12	12.0	110947	272	23	
DB-28-D500N-12000	N28S12	12.0	143009	200	17	
DB-32-D500N-12000	N32S12	12.0	150191	153	13	
DB-36-D500N-12000	N36S12	12.0	176288	121	10	



Reinforcing Bars.

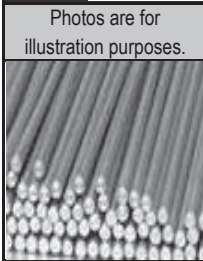
Reinforcing Bars - Starter Bars - Corner Bars.

SWIMMING POOL REINFORCING BAR



Product Name	Length mm	Metres per t	Lengths per t	SAP Code - SAP Search Description.
S12S6	6000	1088	181	143004 - DB-12-D250N-06000
S12S9	9000	1088	121	136814 - DB-12-D250N-09000
Grade D250N deformed bar to AS 1302. Used in the construction of swimming pools.				

REINFORCING PLAIN ROUND BAR.



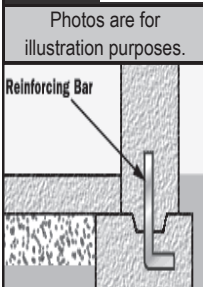
Product Name	Length mm	Metres per t	Lengths per t	SAP Code - SAP Search Description.
R6S6	6000	3712	619	179992 - RD-006.50-R250N-06000
R10S6	6000	1567	261	176994 - RD-010.00-R250N-06000
R12S6	6000	1088	181	177003 - RD-012.00-R250N-06000
R16S6	6000	612	102	177008 - RD-016.00-R250N-06000
R20S6	6000	392	65	177013 - RD-020.00-R250N-06000
R24S6	6000	272	45	177017 - RD-024.00-R250N-06000
Grade 250R round bar to AS 1302.				

STARTER BARS.



Product Name	Bar Size & Shape	Dimension (mm)	SAP Code - SAP Search Description.
SB1012H	R10 Safety Hook	1000x150x120	196087-REO-BAR-START-R250N-10-1000-120-150H
SB1012H	R10 L	1000 x 200	100009 - No known code
SB120820	N12 L	800 x 200	143357-REO-BAR-START-D500N-12-0800-200
SB121020	N12 L	1000 x 200	143358 - REO-BAR-START-D500N-12-1000-200
SB12010	N12 Safety Hook	1000x150x100	178558-REO-BAR-START-D500N-12-1000-150-100H
SB121215	N12 L	1200 x 150	178560 - REO-BAR-START-D500N-12-1200-150
SB121000	N12 Straight	1000	178557 - REO-BAR-START-D500N-12-1000
SB121200	N12 Straight	1200	178559 - REO-BAR-START-D500N-12-1200
SB121500	N12 Straight	1500	178563 - REO-BAR-START-D500N-12-1500
SB122000	N12 Straight	2000	178564 - REO-BAR-START-D500N-12-2000
SB123000	N12 Straight	3000	178565 - REO-BAR-START-D500N-12-3000
Standard cut and bent deformed Grade 500N bar to AS 4671.			

CORNER BARS.



Product Name	Bar Size & Degree of bend	Dimension (mm)	SAP Code - SAP Search Description.
CB1205	N12 90 degree	500 x 500	100009 - No known code
CB1206	N12 90 degree	600 x 600	100009 - No known code
CB120545	N12 45 degree	500 x 500	100009 - No known code
CB120645	N12 45 degree	600 x 600	100009 - No known code
CB1606	N16 90 degree	600 x 600	100009 - No known code
CB1607	N16 90 degree	700 x 700	100009 - No known code
CB10745	N16 45 degree	700 x 700	100009 - No known code
Standard cut and deformed Grade 500N bar to AS 4671.			

Cages, Spirals & Threaded Bars.



Cages - Spirals - Threaded Bars.

Z-FOOTING CAGES.

SAP Code - SAP Search Description.	Product Name	Height	Substitution for		Photos are for illustration purposes.	
			Top	Bottom		
100009 - No Known Code	Z17X20410	200	L8TM3	L8TM3		
100009 - No Known Code	Z17X30410	300	L8TM3	L8TM3		
100009 - No Known Code	Z17X40410	400	L8TM3	L8TM3		
100009 - No Known Code	Z17X20412	200	L8TM4	L8TM4		
100009 - No Known Code	Z17X30412	300	L11TM3	L11TM3		
100009 - No Known Code	Z17X40412	400	L11TM4	L11TM4		
100009 - No Known Code	Z17X30810	300	L11TM3	L11TM3		
100009 - No Known Code	Z17X30610	300	L8TM3	L11TM3		
100009 - No Known Code	Z17X40810	400	L11TM3	L11TM3		
100009 - No Known Code	Z17X30811	300	L11TM4	L11TM4		
100009 - No Known Code	Z17X40811	400	L11TM4	L11TM4		
Prefabricated cages 6.0m long used in footings. Substitution for trench mesh and ligatures.						

WZ-FOOTING CAGES.

SAP Code - SAP Search Description.	Product Name	Width x Height (mm)	Top	Bottom	Photos are for illustration purposes.	
						100009 - No Known Code
100009 - No Known Code	TZ30X30808	300 x 300	L8TM4	L8TM4		
100009 - No Known Code	TZ30X20811	300 x 200	L11TM4	L11TM4		
100009 - No Known Code	TZ30X30811	300 x 300	L11TM4	L11TM4		
100009 - No Known Code	TZ20X40608	200 x 400	L8TM3	L8TM3		
100009 - No Known Code	TZ20X30611	200 x 300	L11TM3	L11TM3		
100009 - No Known Code	TZ20X40611	200 x 400	L11TM3	L11TM3		
100009 - No Known Code	TZ20X30612	200 x 300	L12TM3	L12TM3		
100009 - No Known Code	TZ20X40612	200 x 400	L12TM3	L12TM3		
Prefabricated trench mesh cages 6.0m long used in footings.						

SPIRALS.

SAP Search Description.	Product Name	Diameter mm	SAP Code	
WIRE-06.00-BRT-RIB-SPIRAL-40T-170	RBW6M0SP17	170	178677	
WIRE-06.00-BRT-RIB-SPIRAL-40T-200	RBW6M0SP20	200	178678	
WIRE-06.00-BRT-RIB-SPIRAL-40T-250	RBW6M0SP25	250	178679	
WIRE-06.00-BRT-RIB-SPIRAL-40T-300	RBW6M0SP30	300	178680	
WIRE-06.00-BRT-RIB-SPIRAL-40T-450	RBW6M0SP45	450	178681	
Manufactured from deformed wire 500 MPa L Grade to AS 4671.				


THREADED ROD - metric thread.

SAP Search Description.	Product Name	Length mm	Diameter mm	SAP Code	
REO-BAR-THR-SA5-12-2400	TRZM1224	2400	12	178576	
REO-BAR-THR-SA5-12-2700	TRZM1227	2700	12	478577	
REO-BAR-THR-SA5-12-3000	TRZM1230	3000	12	178578	
REO-BAR-THR-SA5-12-3600	TRZM1236	3600	12	180128	
REO-BAR-THR-SA5-16-2400	TRZM1624	2400	16	178579	
REO-BAR-THR-SA5-16-2700	TRZM1627	2700	16	178580	
REO-BAR-THR-SA5-16-3000	TRZM1630	3000	16	178581	

Starter Bars, Joiners and Post Supports.

Starter Bars - Joiners - Post Supports.


SLAB STARTER BARS.



Product Name	Dimension mm	Diameter mm	Bag Qty	SAP Code - SAP Search Description.
SBLZM12180	180 x 50	12	50	178572 - REO-BAR-START-THR-SA5-12-180-050
SBLZM12200	200 x 150	12	50	178573-REO-BAR-START-THR-SA5-12-200-150
SBLZM12300	300 x 50	12	50	178574-REO-BAR-START-THR-SA5-12-300-050
SBLZM16180	180 x 50	16	50	100009 - No Known Code
SBLZM16200	200 x 150	16	50	178575- REO-BAR-START-THR-SA5-16-200-150

Cut and bent bar with a threaded end.


HEXAGONAL JOINERS.



Product Name	Diameter mm	SAP Number	SAP Search Description.
NUTZ12	12	162749	CON-COUP-HEX-ZP-12
NUTZ16	16	162748	CON-COUP-HEX-ZP-16

Used in conjunction with threaded bars.


HEXAGONAL NUTS.



Product Name	Diameter mm	SAP Number	SAP Search Description.
NUTZ12Z	12	137539	GEN-FAST-HEX-NUT-ZP-12
NUTZ16Z	16	137540	GEN-FAST-HEX-NUT-ZP-16

Used in conjunction with threaded bars and bolts.

SQUARE WASHERS.

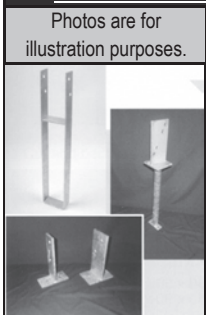


Product Name	Dimension mm	Diameter mm	SAP Number	SAP Search Description.
WASHR12Z	50 x 50 x 3	12	178488	GEN-FAST-FLT-WASHER-ZP-SQ-50-3-12
WASHR16Z	50 x 50 x 5	16	178489	GEN-FAST-FLT-WASHER-ZP-SQ-50-5-16

Used in conjunction with threaded bars and bolts.

Items may not be stocked at all outlets.

TIMBER POST SUPPORTS.



Photos are for illustration purposes.	Product Name	Dimension mm	Length mm	Post Size mm	SAP Code - SAP Search Description.
	PS3515	100x50x6	350	100 sq	100009 - No Known Code
	PS4515	100x50x6	450	100 sq	100009 - No Known Code
	PS6015	100x50x6	600	100 sq	195571 GEN-POST-SUPPORT-50-100-600
	PSTB75100	75x160x10	260	75/90	187851 & 187852 - GEN-POST-BRKT-GAL
	PSTB115125	110x180x10	260	110/125 sq	100009 - No Known Code
	PSTB150	130x160x10	260	150 sq	100009 - No Known Code
	PSTB200	180x200x10	310	200+ sq	100009 - No Known Code
	PST150	130x130x10	870	150+ sq	100009 - No Known Code
	PST200P	225x200x10	920	200+ sq	100009 - No Known Code

Hot dipped galvanized steel brackets for attaching timber posts in domestic applications.

Bolt on, embedded in concrete and "T" blade variations.

Tie Wires, Loop Ties and Tools.



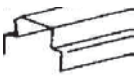
Tie Wires - Loop Ties - Belt and Tools.

				TIE WIRE.	
SAP Search Description.	Product Name	Diameter mm	Description	SAP Number	
WIRE-01.60-TIE-BLK-ANN-0001.0KG	TWA1M603	1.6	3kg coil	157336	
WIRE-01.60-TIE-BLK-ANN-0005.0KG	TWA1M605	1.6	5kg coil	140464	
WIRE-01.60-TIE-BLK-ANN-0010.0KG	TWA1M610	1.6	10kg coil	140466	
Coils of black annealed tie wire used as a steel fixing aid.					

					LOOP TIES.	
SAP Search Description.	Product Name	Length mm	Qty per Roll	SAP Number		
CON-LT-BLK-1.6-110	LT110	110	2000	150727		
CON-LT-BLK-1.6-125	LT125	125	2000	110561		
CON-LT-BLK-1.6-150	LT150	150	2000	137479		
CON-LT-BLK-1.6-200	LT200	200	2000	176227		
CON-LT-BLK-1.6-110-QTY0200	LTHP110	110	200	176225		
CON-LT-GAL-1.57-110	LTG110	110	2000	157883		
CON-LT-GAL-1.57-125	LTG125	125	2000	176228		
CON-LT-GAL-1.57-150	LTG150	150	2000	169632		
CON-LT-GAL-1.57-200	LTG200	200	2000	176229		
Tie wires with loops used as a steel fixing aid.						

				REEL, BELT & TOOLS.	
SAP Search Description.	Product Name	Description	SAP Number		
CON-MISC-BELT-PACK-HOLDER	IDLREEL	Aluminium reel for tie wire.	188620		
CON-TIE-IDL-BELT-LTR	IDLNYBELT	Wide belt & buckle for reel.	176249		
GEN-WIRE-TIE-CYCLONE-TOOL	TWSTLN	Twisting tool with long handle.	153683		
GEN-MISC-NIPP-EC-200	NIPP8	Knippex Nippers 200mm.	176928		
Tools used in steel fixing.					

Reinforcing Notes.					



Steel Building Components.

Steel Building Frame Sections.

Profile and Usage.	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																														
	Light Duty Stud	75 x 32	0.80	7500	50																														
	Cyclone Stud	75 x 38	1.60	7500	25																														
	Junction Stud	75 x 38	1.20	7500	12																														
	Stiffened Top Plate	79 x 75	1.60	7500	10																														
	<p>Pictures for illustration purposes.</p>	Supratruss Chord	75 x 38	0.60	7500	50																													
Supratruss Web		51 x 28	0.75	6100	50																														
Box Rafter		70x38 or 75x38	0.48	7500	50																														
Supraframe Nogging		22 x 20	0.48	6100	20																														
Truss Cord (SBFCTZL7500)		100 x 53/49	1.00	7500	20																														
Trimmer Angle		38 x 38	1.20	4800/5800	40																														
<table border="1"> <thead> <tr> <th>Section</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <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>25</td> </tr> </tbody> </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	25	Ceiling Batten 22mm	63 x 22	0.42/0.55	6100	25
	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	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																															
	Product.	Post Size.	Length Range.		Packed as.																														
	Uni-Pier™ (Post)	65 x 65 RHS	200 - 2800		1																														
	Uni-Pier™ (Post)	75 x 75 RHS	400 - 4000		1																														
	Uni-Pier™ (Head)	Adjustment up to 200 mm			1																														
Posts & Heads sold as a complete unit only.																																			
	Product.	Size - mm.	Configuration.	Lengths.	Packed as.																														
	Interlok Grating	225 x 63	MM / MF	6075	1																														
	Product.	Width - mm.	Thickness.	Lengths.	kg/m																														
	Roof Track	450 mm	1.20	3048/6074	8.24																														
		675 mm	2.00	3048/6074	12.2																														
<p>Aprox kg per Roll shown on right.</p>	Product.	Size/Gauge/Ln.	Size/Gauge/Ln.	Size/Gauge/Ln.	Order Details.																														
	Steel Strapping	25 x 1.0 x 100m	32 x 1.2 x 25m	38 x 1.6 x 100m	Minimum order 1 bundle 1 length.																														
		25 x 1.2 x 100m	32 x 1.2 x 50m																																
			32 x 1.2 x 100m	32 x 1.6 x 100m	50 x 1.5 x 50m	Lead Time																													
Punched & Unpunched	30 x 1.0 x 30m	32 x 1.6 x 100m	51 x 1.6 x 25m	Aprox 10 days																															

Some advantages over timber when buying steel building products:-

High strength and long life - Galvanized.

Compatible with many other existing building products.

Design freedom.

Pre-fabricated steel frames are precision engineered.

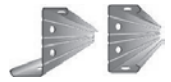
Fire and termite resistant.

No expensive tools needed.

Other accessories available from each manufacturer. Not all accessories are able to be shown on this page.

Some dimensions may differ from each manufacturer. Please check with your local outlet.

SupaZeds® & SupaCees® Purlins.



SupaZeds® & SupaCees® Sections - Dimensions.

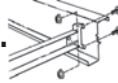
Code	Z & C Thickness	Z & C Depth	Top Z Flange "F"	Bottom Z Flange "E"	Z Return Top & Bot	Top & Bot C Flange	C Return	Mass kg/m
Z/C10010	1.0	102	49	53	12.5 & 12.5	51	12.5	1.77
Z/C10012	1.2	102	49	53	12.5 & 12.5	51	12.5	2.10
Z/C10015	1.5	102	49	53	13.5 & 13.5	51	13.5	2.61
Z/C10019	1.9	102	49	53	14.5 & 14.5	51	14.5	3.29
SZ/SC15010*	1.0	152	48	63	16 & 17	57.5	17.5	2.38
SZ/SC15012	1.2	152	49	66	16.5 & 18.5	60.5	18.0	2.89
SZ/SC15015	1.5	152	49.5	66.5	17 & 18	61	18.5	3.58
SZ/SC15019	1.9	152	50.5	67.5	18 & 19	62	19.0	4.51
SZ/SC15024	2.4	152	52	70	19 & 20	63	20.0	5.67
SZ/SC20012*	1.2	203	62	76	19.5 & 19.5	70	21.0	3.62
SZ/SC20015	1.5	203	63	77	20 & 20	70.5	21.5	4.49
SZ/SC20019	1.9	203	63.5	79.5	21 & 21.5	73	23.0	5.73
SZ/SC20024	2.4	203	65	81.5	22 & 22	74.5	24.0	7.20
SZ/SC25015*	1.5	254	67	78.5	20 & 19.5	72	22.5	5.16
SZ/SC25019	1.9	254	65	78.5	21 & 21	72.5	23.0	6.50
SZ/SC25024	2.4	254	66	80.5	22 & 22	74	24.0	8.16
SZ/SC30019*	1.9	300	88	103.5	26 & 25	97.5	27.5	8.02
SZ/SC30024	2.4	300	87.5	104.5	27 & 26.5	100	28.5	10.09
SZ/SC30030	3.0	300	88	106.5	28 & 28	100.5	29.5	12.56
SZ/SC35024	2.4	350	114	131.5	31 & 28.5	124	33.5	12.20
SZ/SC35030	3.0	350	115	134	31 & 30	125.5	34.5	15.09
SZ/SC40024	2.4	400	114	131.5	31 & 28.5	124	33.5	13.13
SZ/SC40030	3.0	400	115	134	31 & 30	125.5	34.5	16.42

Both purlin sections may be subject to minimum rolling quantities, rolling dates and minimum or maximum lengths
Please check with your local Distribution outlet for your special punching requirements

NB. Dimensions shown are for SupaZeds® & SupaCees®.

Details as per BlueScope Lysaght publications.

Hooklok II Purlin Bridging.



Hooklok II Purlin Bridging			
Bridging Types.	Suit Purlin size.	Tie Types.	Suits.
Standard	100 - 150 - 200 - 250	Ridge	As standard
Fascia	150 - 200 - 250	Girt Hanger	As standard
Adjustable	100 - 150 - 200 - 250	Girt Foot	As standard
Expansion	100 - 150 - 200 - 250	Tie Rods	12mm

Purlin Bridging



Purlin Bridging Series 300/350		
Bridging Types.	Type	Type
Standard	300	350
Fascia	300	350
Ridge	300	350
Tie Rods	16mm.	

Firmlok® Beams.



Firmlok® Beams and Accessories.				
Code	Height mm	Width mm	Thickness mm	Mass kg/m
F10011	100	47	0.55	1.94
F15015	150	47	0.75	3.21
F20020	200	47	1.00	5.01
Firmlok Beams in Colorbond.				
Brackets	Universal Apex Collar Tie	Accessories	Suspension Bracket Internal Joiner Brick Wall Bracket Universal Cleats	

Accessories available in both Painted & Unpainted.

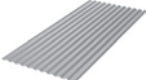
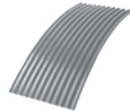
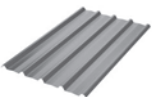
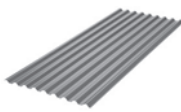

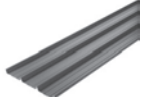
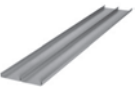

Gutters.



Gutters.		
Lysaght Name	Height mm	Width mm
Fitfast Gutter	140	124
Hi Front Quad 115	90	115
Quad 150	74	150
Quad 175	92	175
Trimline Gutter	116	124
Emline Gutter	140	125
Half Round Gutter	98	150

Names and dimensions may vary between States and each manufacturer. Please check.

Roof and Wall Sheeting.

Roofing and Walling Profiles Details shown may need to be checked for high winds and/or cyclonic areas.	BMT mm	Mass kg/m ²	Width of Coverage mm	Depth of Rib mm	Minimum Recommended Roof Pitch (°) & (mm)	Max recommended spacing of supports for normal conditions-mm.				
						Roof		Walls		
						End Spans	Internal Spans	End Spans	Internal Spans	
	0.42	4.30	762	16	5° (1 in 12)	900	1200	2500	2700	
	0.48	4.90	762	16		1300	1700	2700	2700	
Recommended - 5 screws/m ²										
	0.60	6.10	762	17	5° (1 in 12)	1600	1800	3000	3300	
	Recommended - 5 screws/m ²									
	0.42	4.30	762	29	2° (1 in 30)	1300	1900	3000	3000	
	0.48	4.90	762	29		1850	2600	3000	3000	
	Recommended - 5.5 screws/m ²									
	0.42	4.70	700	24	3° (1 in 20)	1800	2400	3000	3300	
	0.48	5.30	700	24		2200	3000	3000	3300	
Recommended - 5.5 screws/m ²										
	0.42	5.00	406	41	2° (1 in 30)	1700	2100	1800	1800	
	0.48	5.60	406	41		1° (1 in 50)	2400	3000	2400	2400
	0.60	7.00	406	41		1° (1 in 50)	2700	3600	3000	3000
Recommended - 5 screws/m ²										
	0.42	4.70	700	43	2° (1 in 30)	1750	2200	3000	3600	
	0.48	5.30	700	43		1° (1 in 50)	2350	2800	3300	3900
	0.60	6.60	700	43		1° (1 in 50)	-	-	-	-
Recommended - 4.5 screws/m ²										
	0.70	9.70	305	48	1° (1 in 50)	2000	2500	2700	2700	
	Recommended - 3 screws/m ²									
	0.42	6.25	250	45	2° (1 in 30)	4800	4800	-	-	
	0.42	6.25	250	45		2° (1 in 30)	4800	4800	-	-
Recommended - 8 screws/m ² - Spans are for no foot traffic.										
Flatdek® II is manufactured in Queensland only. (At the time of printing.)										

Please note, other manufacturers sheet profiles may differ in dimensions.

Most profiles are available in the full range of COLORBOND® steel including the Ultra and Metallic range. Unpainted ZINCALUME® steel is also available. Most profiles are available in custom cut lengths. The maximum length for factory rolled product is dependant on transport legislation in your area.

The above profile details outline basic design information which will assist selection for your design or installation.

We recommend you access the full product brochures and manuals for complete design information.

These brochures and the availability of profiles and finishes can be found on the website www.lysaght.com

The drainage or run-off capacity of roof sheeting can limit on the total length of a sheet run and must be considered in roof design and construction.



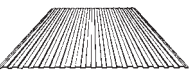
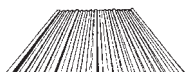


Accessories Available.

Valley Guttering, Ridge Capping, Barge Capping, Flashings, Roof Screws, Guttering and Brackets.





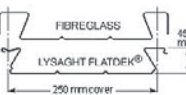

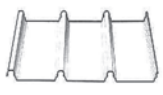
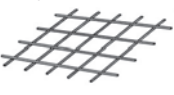
Internal and External Gutter corner, Downpipes, Drops, and Downpipe Brackets.



Wall Sheetings & Polycarbonate® Sheeting.

Walling Profiles only	BMT mm	Mass kg/m ²	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 Recommended 4 screws/m ²	3.60	762	16	2100 Not suitable for curving.	2400	2400
	Trimwall®	0.35 Recommended 4 screws/m ²	3.60	762	29	2100	2900	3000
	Panelrib®	0.35 0.42 Recommended 4 screws/m ²	3.20 3.80	850 850	4 4	1100 1200	1200 1200	1200 1200
	Multiclad®	0.35 0.42 Recommended 4 screws/m ²	3.30 3.90	840 840	12 12	1400 1700	1800 1800	1800 1800
	Mini Orb®	0.42 0.48 Recommended 8 screws/m ² 0.48mm thickness may be curved to 150mm radius.	4.00 4.50	820 820	6 6	1200 1500	1500 1500	1500 1500
	Easyclad Hi-Ten® 2P 300	0.42 Recommended 6 screws/m ²	4.50	300	19	-	1500	1500

TRANSLUCENT & POLYCARBONATE® Roof and Wall Sheeting & Safety Mesh.

			
Custom Orb®	Trimdek Hi-Ten®	Spandek Hi-Ten®	Klip-Lok 406®
			
Flatdek®	Greca® (Roma)	Klip-Lok 700 HS®	Safety Roof Mesh

- Thickness -** 2400 g/m² for all, 1800g/m² & 3050g/m² 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.
- 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.

Safety Mesh.

- Safety -** It is recommended that roofing mesh be installed under all translucent sheeting.

Rainwater Accessories.

A house is incomplete until the finishing accessories are added and waterproof the roof completed.

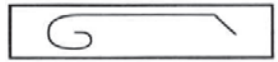
The following flashings are only a few that will complete a roof. Flashings are available in COLORBOND® steel, ZINCALUME® steel and Galvabond. Custom made flashings are also available but there could be length limitations. Check at placement of orders.



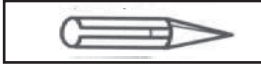
Barge Capping



Barge Roll



Barge Roll Capping



Apron Flashing



Tile Flashing



Ridge Capping



Roll Top Ridge Capping



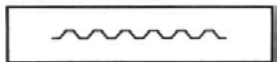
Valley Flashing



Ribbed Valley



Structural Valley



Valley Support

Please note that Barge Roll, Apron Flashing, Ribbed Valley and Structural Valley, are **NOT AVAILABLE** in Western Australia.



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® steel, ZINCALUME® steel with the likes of Galvabond®. Water running from a ZINCALUME® steel 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)

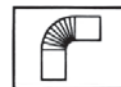
100x50, 100x75, 100x100, 125x100, 150x100 & 150x150. all tapered to allow each end to slip inside the next.



Round



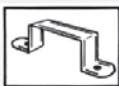
Square/Rectangular



**Crimped Bends
90/45°**



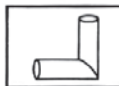
**Chinamens Hat
(on short pipe)**



**Square/
Rectangular
Astragals/Straps.**



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



**Round
Astragals/Straps.**

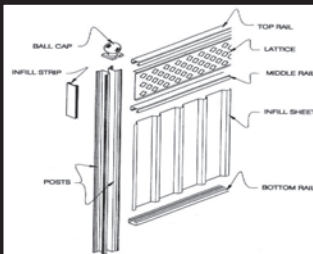
The above components are only but a few of the many items that can and may be needed to complete a roof. Some builders will try to use PVC downpipes and while this is quiet acceptable, there is something calming and melodic about the water running down a metal downpipe. The use of PVC pipe for downpipes is a personal preference.

Details courtesy of BlueScope Lysaght.

COLORBOND® Steel & Fence Colour Matrix.



COLORBOND® steel Sheeting and COLORBOND® steel Fencing Colours.



COLORBOND® steel Colour Matrix

Colours may be subject to change without prior notice.

COLORBOND® steel Range		COLORBOND® steel Premium Range			COLORBOND® Steel
Was	Now	Ultra steel	Stainless steel	Metallic steel	Fencing sheet
Tuscan Red	Headland®	Headland®	-	-	-
Heritage Red	Manor Red™	-	-	-	Red Oak®
-	Jasper™	-	-	-	-
-	Sandbank®	-	-	-	-
Smooth Cream	Classic Cream™	-	-	-	-
Off White	Surfmist®	Surfmist®	Surfmist®	-	Frost®
Wheat	-	-	-	-	Harvest®
Merino	Paperbark®	-	-	-	Terrace®
Birch	Dune®	Dune®	Dune®	-	-
Stone	-	-	-	-	Riversand®
Gull Grey	Shale Grey™	-	-	-	-
Armour Grey	Windspray®	Windspray®	Windspray®	-	-
Slate Grey	Woodland Grey®	-	-	-	Grey Ridge®
-	Bushland®	-	-	-	Teatree®
Mist Green	Pale Eucalypt®	-	-	-	Meadow®
Rivergum	Wilderness®	Wilderness®	Wilderness®	-	Willow®
Caulfield Green	Cottage Green™	-	-	-	Evergreen®
-	-	-	-	-	Hedge®
Torres Blue	-	-	-	-	-
-	-	-	-	-	Boundary®
Mountain Blue	Deep Ocean®	Deep Ocean®	Deep Ocean®	-	Bluestone®
-	Ironstone™	-	-	-	-
-	-	-	-	-	Eclipse®
-	Evening Haze®	-	-	-	Domain®
-	Monument®	-	-	-	Summershade®
-	Loft®	-	-	-	Estate®
The above colours have been arranged to correspond with each of the standard, premium and fencing range, while reading across the page.				Cortex®	-
Please note:- Screws are packed in bags of 100 or 1000 only.				Skybridge®	-
COLORBOND® steel and ®colour names are registered trade marks of BlueScope Steel Limited.				Axis®	-
BlueScope and ™ colour names are trade marks of BlueScope Steel Limited.				Conservatory®	-
Note: Always use the actual colour chip samples when making a selection.				Façade®	-
				Citi®	-

All details courtesy of BlueScope Lysaght.



Rainwater Tanks & Harvesting.

Rainwater Tanks.

Why use steel?

- Cost-effective - Durable - Strong.
- Attractive shapes, textures and colours available.
- Easy to maintain.



- Made from AQUAPLATE® steel with a food grade polymer coating.
- Steel is a recyclable product.

A useful tip:- 1 mm of rain on 1 m² of roof over 1 hour, will produce 1 litre of water.

What is AQUAPLATE®?

BlueScope AQUAPLATE® polymer coated steel has been specifically developed for the fabrication of water tanks.

Qld Waterpoint Slimline® Rainwater Tanks.

Litre capacity Nominal	Dimensions (mm)		
	Width	Length	Height
Waterpoint Ultraslime®			
1170	570	1500	1540
1760	570	2200	1540
2270	570	2800	1540
Waterpoint Slimline®			
2200	870	1900	1540
2900	870	2400	1540
3400	870	2800	1540
3500	870	2400	1860
4100	870	2800	1860
3800	1170	2400	1540
4500	1170	2800	1540
5500	1170	2800	1860

Qld Waterpoint Classic®

Litre capacity Nominal	Dimensions (mm)	
	Diameter	Height
1200	1030	1540
2100	1220	1860
3300	1670	1540
3400	1530	1860
4500	1770	1860
5400	1930	1860
6700	2160	1860
8600	2440	1860



Details courtesy of BlueScope Water.

NSW Waterpoint Slimline® Rainwater Tanks.

Litre capacity Nominal	Dimensions (mm)		
	Width	Length	Height
Waterpoint Ultraslime®			
950	580	1200	1540
1500	580	1800	1540
2000	580	2400	1540
2400	580	2800	1540
Waterpoint Slimline®			
2150	880	1800	1540
2400	880	2400	1240
3000	880	2400	1540
3500	880	2800	1540
3600	880	2400	1850
4400	880	2900	1850
4000	1180	2400	1540
4600	1180	2800	1540
5500	1180	2800	1850

NSW Waterpoint Classic®

Litre capacity Nominal	Dimensions (mm)	
	Diameter	Height
1170	900	1850
1500	900	2400
2000	1200	1800
2700	1200	2400
3100	1500	1800
4100	2100	1200
4200	1500	2400
4500	1800	1800
6200	2100	1800
6000	1800	2400
6200	2100	2400



Rural size tanks also available.

Corrugated Culvert Pipe.



Helical Drainage Pipe - Corrugated Culvert Pipe.

Galvanized culvert pipe is manufactured in a range of sizes from 203 mm to 2428 mm and in lengths to suit your needs. The 4 ply lockseam adds strength and rigidity to a versatile pipe with many uses in farm, mining and industrial applications.



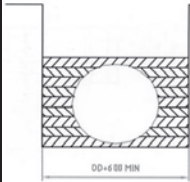
Applications.
 Road culverts.
 Stormwater drainage.
 Retention systems.

Corrugations 75mm x 25mm deep.
 Fittings - Crosses, Tees, Y & Angles

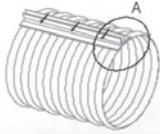


Installation and Joiner Details.

Culvert should be laid on a firm, well compacted granular bed 100mm deep in a trench 500mm wider than the pipe diameter. Back fill with compacted material passing 75mm screen in 150mm layers. Minimum cover should be 600mm.



Typical Back Fill.

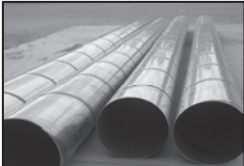


External Joiner.


Metric mm	Thickness mm	Mass kg/m
203	1.6	10
305	1.6	15
381	1.6	19
457	1.6	23
610	1.6	30
762	1.6	38
914	1.6	45
1069	1.6	53
1219	1.6	60
1524	1.6	76
1829	1.6	92
2133	2.0	140
2438	2.0	160

Round Spiral Welded Piping - Conforms to AS4041 (1992) & AS1579 (1993).

Suitable for:-	Materials:-
Condenser Water	Stainless Steels
Fire Mains	(304, 321 & 316)
Dust Collection Systems	Mild Steel
Boiler Fires	Aluminium
Water Supply Lines	3CR 12 & 5CR 12
Pneumatic Conveying	
Diesel Exhaust	
High Pressure Air Lines	
Augers	



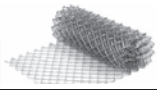
Joining Methods.
 Flanged using standard angle iron or table flanges.
 Butt weld and collar.
 Shouldered ends and couplings.
 Grooved ends and couplings.





Industrial Downpipes.
 Also available spiral welded industrial downpipes in Stainless, Hot Dipped Galvanized, Zinalume - plain or powder coated.

Normal Dia O.D.		Standard Gauges.			
Metric mm	IMP. NB.	1.2 mm	1.6 mm	2 mm	3 mm
76	3 in.	y	y	y	y
88.9	* 3 NB	y	y	y	y
102	4	y	y	y	y
114.3	* 4 NB	y	y	y	y
127	5	y	y	y	y
152	6	y	y	y	y
165	* 6 NB	y	y	y	y
178	7	y	y	y	y
203	8	y	y	y	y
219	* 8 NB	y	y	y	y
229	9	y	y	y	y
254	10	y	y	y	y
273.1	* 10 NB	y	y	y	y
279	11	y	y	y	y
305	12	y	y	y	y
323.9	* 12 NB	y	y	y	y
330	13	y	y	y	y
356	14	y	y	y	y

All details courtesy of Roladuct - Qld, NSW & Vic. Please note, these products are not a stockable item.



Chainwire & Fence Fittings.

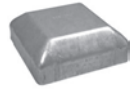
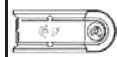
Chain wire (Also referred to as Chainlink).			
Diamond x Wire Size	Height mm	Roll Length m	Mass kg/roll
50 x 2.5	600	20	19
Standard	750	20	24
Galvanized	900	20	28
	1050	20	32
	1200	20	38
	1500	20	46
	1800	20	55
	2000	10	31
 Knuckle/Knuckle	2100	10	33
	2400	10	38
	3000	10	46
	3600	10	56
 Knuckle/Barb			
60 x 2.5	600	20	16
Standard	750	20	20
Galvanized	900	20	24
	1050	20	28
	1200	20	32
	1500	20	40
	1800	20	48
Normally supplied in Knuckle/Knuckle finish.			
50 x 3.15	900	15	36
Heavy	1200	15	48
Galvanized	1800	15	71
50 x 2.5	750	15	21
PVC	900	15	25
Coated	1200	15	33
	1500	15	42
	1800	15	50
	2000	10	37
	2100	10	39
	2400	10	44
	2500	10	46
	3000	10	55
60 x 2.5	900	20	28
PVC	1200	20	36
Coated	1800	20	55
PVC Colours are Black or Green.			

Products in italics and shaded are made to order only.

Round Caps - Galv.			
Code	Pipe	Qty/carton	Mass kg/ctn
K25GB	25	250	11
K32GB	32	150	12
K40GB	40	130	9
K50GB	50	90	9



Fence Fittings.			
Code	Thru mm	Butt mm	Ctn & Mass Qty = kg/ctn
Tees.			
T2020	20	20	100 = 15
T2520	20	25	80 = 15
T2525	20	25	80 = 18
T2532	25	32	40 = 14
T2540	25	40	40 = 20
T3225	25	25	40 = 14
T3232	32	32	40 = 16
T3250	32	50	20 = 16
T4025	32	25	40 = 15
T4032	40	32	40 = 19
T4040	40	40	40 = 22
T4050	40	50	20 = 18
Rail Clamps.			
UFFB25		25	40 = 14
UFFB32		32	30 = 12
UFFB40		40	30 = 14
UFFB50		50	20 = 11
Post Clamps.			
UFFT25	25		50 = 9
UFFT32	32		40 = 9
UFFT40	40		40 = 9
UFFT50	50		40 = 10
UFFT65	65		30 = 9
Fixed Crosses.			
X2020	20	20	50 = 13
X2525	25	25	40 = 18
X3232	32	32	30 = 20
X3250	32	50	15 = 14
X4040	40	40	20 = 14
X4050	40	50	20 = 11
X5050	50	50	20 = 18
Fixed Corners.			
C2020	20	20	40 = 14
C2525	25	25	40 = 18
C3232	32	32	15 = 9
C3240	32	40	15 = 12
C4040	40	40	10 = 10
C4050	40	50	10 = 11
C5050	50	50	10 = 15
Square Caps - Galv.			
Code	Tube	Qty/carton	Mass kg
K25MSGB	25 x 25	500	9
K40MSGB	40 x 40	250	10
K50MSGB	50 x 50	150	9
K75MSGB	75 x 75	60	2



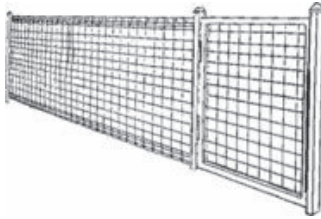
Other Fence Fitting components available. Popular sizes shown only due to the space limitations.

Check with your local outlet for your requirements.

Domestic Fencing Options.



Alternative Fencing Options.



Roll Top & Bottom 50x75mm

Size range:- 2400 x 900
2400 x 1200
2400 x 1800
3000 x 1200 *

Alternative names may be Classic or Arufura.

* Indicates Arafura supply option.

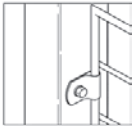
Typical Finish Galvanized.

Optional Finish Decorative Powder Coated.

Post Options Timber, Square Steel Section or Steel Pipe Posts.

Roll Top Gates.

1000 x 895/900 *
1000 x 1185/1200 *
1000 x 1785/1800 *
1600 x 895
1600 x 1195
1600 x 1785
3030 x 900 *
3030 x 1200 *
3030 x 1800 *



U Clip to Square Steel Section.

Photos are for illustration purposes.

Roll Top & Bottom Wires 75mm apart

Size range:- 2400 x 900
2400 x 1200
2400 x 1800
3000 x 880 #
3000 x 1180 #
3000 x 1480 #

Alternative name may be Barra.

Indicates Barra supply option.

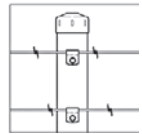
Typical Finish Galvanized.

Optional Finish Decorative Powder Coated.

Post Options Timber, Square Steel Section or Steel Pipe Posts.

Roll Top Gates.

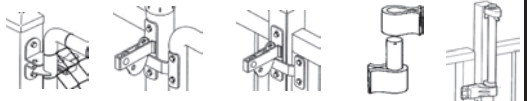
1000 x 915/880 #
1000 x 1215/1180 #
1000 x 1480 #
1600 x 910
1600 x 1215
3030 x 880 #
3030 x 1180 #
3030 x 1480 #



U Clip to Steel Pipe Section.

Please check all details when placing orders.

Gate & Fence Fittings.



Gate Catches, Hinges & Fittings.

Code	Description	mass/carton kg/carton	Code	Description	mass/carton kg/carton
CAC6	Two way catch	25 = 12 kg	WOP16	Weld on Pin	50 = 10.5 kg
CAC13	Single pipe catch	40 = 11 kg	WOS16	Weld on Socket	50 = 3.5 kg
CAC28	D Latch & Striker	60 = 13 kg	WOP20	Weld on Pin	40 = 18.5 kg
CAC29	D Latch & Striker	60 = 12 kg	WOS 20	Weld on Socket	40 = 10 kg
B13 L	Drop Bolt	40 = 18 kg	WOP/WOS 27	Weld on Pin/Socket	10 = 15 kg
EG1 - kit	Farm Gate Pack	10 = 15 kg	G25C	Self closing hinge	20 = 13 kg
SP1	Gate Pack	10 = 20 kg	G7LT	Bolt Thru Gudgeon	30 = 28 kg
MNL1	Magna Latch	20 = 15 kg	CAC22	Double Gate Bow	20 = 14 kg

For full details on other fence fitting items, please consult with your steel outlet.



Hexagonal Wire Netting.

Wire Netting.					
Size of Netting	Length of Roll m	Height of Roll cm	Aperture size mm	Wire Diameter mm	Mass/ & Rolls/ roll - kgs Pallet
30/4/1.4	100	30	40	1.4	28
60/4/1.4	100	90	40	1.4	54
90/4/1.4	100	90	40	1.4	75
120/4/1.4	50	120	40	1.4	58
180/4/1.4	50	180	40	1.4	74
90/5/1.0*	50	90	50	1.0	13
120/5/1.0*	50	120	50	1.0	18
180/5/1.0*	50	180	50	1.0	26

* Normally an imported item.

Other sizes may be available - please check.

Ring Joint (Ring Lock) Fencing.

Ring Joint - 2.50mm Heavy Duty- Galvanized.

Code of Product	Height cm	Length m	Line Spacing	Common name	Mass per roll
5/67/30	67	200	Graduated	Sheep & Lamb	60
6/70/30	70	200	Graduated	Sheep & Lamb	70
6/90/30	90	200	Graduated	Cattle/Sheep	74
7/90/30	90	200	Graduated	All Stock	88
5/70/90	70	500	Graduated	Mature Sheep	112

Areas of main use, Western NSW, Victoria and Western Australia.

Hinged Joint Fencing.

Sometimes referred to as Acreage Fencing.

Hinged Joint Fencing - Standard Galv - 2.50mm Wires.

Code of Product	Height cm	Length m	Line Spacing	Common name	Mass/ & Rolls/ roll - kgs Pallet
6/70/30	70	200	Graduated	Sheep & Lamb	70 - 9
7/90/30	90	200	Graduated	All Stock	83 - 9
8/90/30	90	200	Graduated	All Stock	92 - 9
8/115/15	115	100	Graduated	Mature Sheep	68 - 9

Hinged Joint Fencing - 2.80mm Top/Middle/Bottom Wires.

6/70/30	70	250	Graduated	Mature Sheep	76 - 9
6/90/30	90	200	Graduated	Cattle	81 - 9
7/90/30	90	250	Graduated	All Stock	89 - 9
8/90/30	90	200	Graduated	Boundary	101 - 9
8/80/15	80	100	Graduated	Intensive Grazing	64 - 9
8/90/15	90	100	Graduated	Intensive Grazing	73 - 9

Hinged Joint Fencing Standard Galv - 2.00mm Wires.

6/70/30	70	200	Graduated	Boundary	50 - 9
8/115/15	115	100	Graduated	Boundary	49 - 9

Important Tip:- To read the products above eg. 8/115/15

8 = Number of horizontal wires / 115 = Height of roll in cm / 15 = vertical wire spacing in cm.

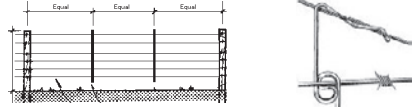
Fencing Wires.



Plain Fence Wires - Standard Galvanized.

Size mm	Length m	Recommended Tension (kN/lb)	Min Breaking Force (kN/lb)	Bundle Quantity	Mass kg/roll
2.5mm Medium Tensile	1500	1.8kN/400lb	5.4kN/1210lb	10	58
2.5mm High Tensile	1500	1.3kN/300lb	3.7kN/830lb	10	58
3.15mm Soft Tensile	750	1.2kN/270lb	3.0kN/675lb	10	46
4.0mm Soft Tensile	500	1.8kN/400lb	4.8kN/1080lb	10	49
4.0mm Helical Wire	250	Self tensioning	Self tensioning	10	25
4.0mm Horse Sighter Wire	400	1.8kN/400lb	4.8kN/1080lb	5	43

Steel & Wire Droppers.



Steel Fence Droppers - Galvanized.

Size cm	Length inches	Bundle Quantity	Mass kg/roll
94 cm	37 inch	45	19
107 cm	42 inch	45	22
117 cm	47 inch	45	24

Steel Wire Droppers.

Steel Wire Droppers.

No. of Wires	Length - cm	No. of Wires	Length - cm
3 Wire Fence	60 or 61 cm	6 Wire Fence	91 or 93 cm
4 Wire Fence	76 or 78 cm	7 Wire Fence	104 or 106 cm
4 Wire Fence	90 or 91 cm	8 Wire Fence	100 or 114 cm
5 Wire Fence	76 cm	9 Wire Fence	96 cm

Barbed Wires.



Barbed Wires - Heavy or Standard Galvanized. (May be imported)

Size & Option mm	Length m	Recommended Tension (kN/lb)	Min Breaking Force (kN/lb)	Bundle Quantity	Mass kg/roll
1.57 High Tensile	500	1.3kN/300lb	3.0kN/675lb	48	24
1.80 High Tensile	500	1.8kN/400lb	4.0kN/900lb	48	28
2.50 Iowa	400	1.3kN/300lb	3.0kN/675lb	27	45

Steel Fence Posts.



Steel Fence Posts - Black or Galvanized. (May be imported)

Size cm	Finish Black	Finish Galvanized	Bundle Quantity	Approx Mass per bundle (tonnes)	Mass kg/ea	8mm Hole punchings for standard lengths. Spacings in cm from top of post.
135*	Y	Y	400	1.10	2.750	2.5-13-10-10-10-6-12-7.5-7.5-8-7
150*	Y	Y	400	1.22	3.050	2.5-13-10-10-10-6-12-7.5-7.5-8-7.5-6-9.5
165*	Y	Y	400	1.35	3.375	2.5-13-10-10-10-6-12-7.5-7.5-8-7.5-6-9.5
180*	Y	Y	400	1.48	3.700	2.5-13-10-10-10-6-12-7.5-7.5-8-7.5-6-9.5
210*	Y	N	400	1.72	4.300	2.5-13-10-10-10-6-12-7.5-7.5-8-7.5-6-9.5-8.5-12.5-15
240*	Y	Y	200	0.98	4.900	2.5-27.5-30-30-30-30.



General Purpose Galvanized Meshes.

Easy Sheets.

Size of mesh	Sheet Size m x m	Mass kg/sheet	Uses.
25 x 25 x 2.5	2.0 m x 1.2 m	7.584	DIY Weldmesh sheets were designed especially for the handy - people in mind. The sheets are of convenient sizes, making it easy to put them into a trailer, utility or station wagon. Do It Yourself projects around the house may include stylish wine racks, sturdy bird cages or dog barriers. * All mesh details courtesy of:-
50 x 25 x 2.5	2.0 m x 1.2 m	7.200	
50 x 50 x 3.0	2.0 m x 1.2 m	5.250	
50 x 50 x 4.0	2.0 m x 1.2 m	10.000	
75 x 50 x 4.0	2.0 m x 1.2 m	8.000	
75 x 75 x 4.0	2.0 m x 1.2 m	6.400	
100 x 100 x 4.0	2.0 m x 1.2 m	5.000	



General Purpose Meshes.

Size of mesh	Sheet Size m x m	Mass kg/sheet	Long wires mm @ mm	Cross wires mm	Standard Unit
25 x 25 x 2.5	3.0 m x 2.4 m	23	2.5 @ 25	2.5 @ 25	Sheet
25 x 25 x 3.15	3.0 m x 2.4 m	36	3.15 @ 25	3.15 @ 25	Sheet
50 x 25 x 3.15	3.0 m x 2.4 m	27	3.15 @ 25	3.15 @ 50	Sheet
50 x 50 x 4.0	3.0 m x 2.4 m	29	4.0 @ 50	4.0 @ 50	Sheet
75 x 50 x 4.0	3.0 m x 2.4 m	24	4.0 @ 50	4.0 @ 75	Sheet
75 x 50 x 5.0	3.0 m x 2.4 m	29	5.0 @ 50	5.0 @ 75	Sheet
100 x 25 x 4.0	3.0 m x 2.4 m	37	4.0 @ 25	4.0 @ 100	Sheet
100 x 100 x 5.0	3.0 m x 2.4 m	29	5.0 @ 100	5.0 @ 100	Sheet

Crab Pot Mesh - Heavy Galvanized.

Size of mesh	Height x Length	Mass kg/roll	Size of mesh	Height x Length	Mass kg/roll
75 x 50 x 2.5	90cm x 30.0m	36	75 x 50 x 2.5	120cm x 30.0m	48



Stock Rail - W-Strap - Truck side.

Stock Rail - "W" Strap - Truck side.

Size Imp/mm	Thickness mm	Overall Dimension	Straight Edge	m/tonne	Mass kg/m
7" / 180	1.5	180 x 1.5	Blk/Gal	435	2.30
9" / 230	1.5	230 x 1.5	Blk/Gal	346	2.89
11" / 280	1.5	280 x 1.5	Blk/Gal	287	3.48

Also known as Hungry Board.

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

May be used to increase carrying capacity of light weight produce. Eg - Cotton.

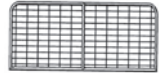
Size Imp/mm	Thickness mm	Overall Dimension	Double Rolled Edge	m/tonne	Mass kg/m
7" / 180	1.5	180 x 1.5	Blk/Gal	377	2.65
9" / 230	1.5	230 x 1.5	Blk/Gal	314	3.18
11" / 280	1.5	280 x 1.5	Blk/Gal	261	3.83

5 Bar Gates - Centre Brace.



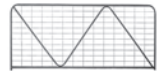
Galvanized 5 Bar Gates.					
Size Opening	Actual Gate Size	Centre or "I" Stay Brace	Materials		Mass kg/Gate
			Bow	Infill	
3'0"	880	No	25NB Pipe	25NB Pipe	10
4'0"	1190	No	25NB Pipe	25NB Pipe	12
5'0"	1470	No	25NB Pipe	25NB Pipe	13
6'0"	1770	No	25NB Pipe	25NB Pipe	18
8'0"	2370	No	25NB Pipe	25NB Pipe	25
10'0"	2970	No	25NB Pipe	25NB Pipe	32
12'0"	3570	Yes	25NB Pipe	25NB Pipe	36
16'0"	4830	Yes	25NB Pipe	25NB Pipe	35.43

Mesh Gates - "I" Stay Brace.



Galvanized Mesh Gates.					
Size Opening	Actual Gate Size	Centre or "I" Stay Brace	Materials		Mass kg/Gate
			Bow	Infill	
2'8"	770	No	25NB Pipe	Gal Mesh	8
4'0"	1180	No	25NB Pipe	Gal Mesh	10
5'0"	1500	No	25NB Pipe	Gal Mesh	12
6'0"	1800	No	25NB Pipe	Gal Mesh	17
8'0"	2380	No	25NB Pipe	Gal Mesh	19
10'0"	2980	Yes	25NB Pipe	Gal Mesh	21
12'0"	3580	Yes	25NB Pipe	Gal Mesh	25
14'0"	4180	Yes	25NB Pipe	Gal Mesh	31
16'0"	4780	Yes	25NB Pipe	Gal Mesh	35

Mesh Gate - "N" Stay Brace.



"N" Stay Gates.					
Size Opening	Actual Gate Size	"N" Stay Brace	Materials		Mass kg/Gate
			Bow & Stay	Infill	
8'0"	2375	Yes	25NB Pipe	Gal Mesh	25
10'0"	2980	Yes	25NB Pipe	Gal Mesh	27
12'0"	3580	Yes	25NB Pipe	Gal Mesh	29
14'0"	4180	Yes	25NB Pipe	Gal Mesh	32
16'0"	4780	Yes	25NB Pipe	Gal Mesh	37

All standard gates are manufactured 1170mm high and smaller than opening size to allow swinging room.

Gate Fittings-Not all shown.

Some Gate Fittings.					
EG1-Gate Kit	Gate Bows	Weld on Hinges	Gate Catches	Farm Gate Packs	Gudgeon



Metalcorp Steel Rural Crushes & Headbails.

Metalcorp Steel Rural Crushes & Headbails.

◀ CLASSIC® Crush.



The Metalcorp Steel CLASSIC® Crush is Australia's most popular parallel squeeze crush. It is ideal for medium to large producers who require a robust, efficient and reliable squeeze crush at an affordable price.

Standard features:- Full walk-through Headbail, 2-Side parallel squeeze, Front & rear operation.

194802	Length 3050mm.	Height 2200mm.	Base width 820mm.
--------	----------------	----------------	-------------------

CATTLEMASTER® Crush.▶

The Metalcorp Steel CATTLEMASTER® Crush is the industry standard for a strong, practical and affordable veterinary crush. The CATTLEMASTER® Crush has split drafting gates that are diagonally offset. Easy and safe to use and stops bruising and scarring of animals.

Standard features:- The use of cattle rail, minimized gaps and high sheeted sides make it the ideal choice for those who can work without the parallel squeeze.



Length 3100mm.	Height 2200mm.	Base width 800mm.	155761
----------------	----------------	-------------------	--------

◀ FARMHAND® Crush.



The Metalcorp Steel FARMHAND® Crush is a unit designed for the small beef producer or dairy farmer.

Standard features:- Include the full walk through heavy duty parallel style headbail with both front and rear operations.

(Photos may be for illustration purposes only)

150715	Length 3060mm.	Height 2200mm.	Base width 800mm.
--------	----------------	----------------	-------------------

HOBBYMASTER® Crush.▶

The Metalcorp Steel HOBBYMASTER® Crush is a unit designed for the small operator or hobby farmer. The HOBBYMASTER® Crush has a galvanized finish and a full walk through headbail.

Standard feature:- Split gates on nearside, a full gate on offside and full sheeting on the bottom gates.

This crush may be ordered in vet or vetless.

(Photos may be for illustration purposes only)

Length 2530mm.	Height 2200mm.	Base width 800mm.	172232
----------------	----------------	-------------------	--------



◀ Heavy Duty Headbail



The Metalcorp Steel stand alone Classic Headbail is found on both the Classic and the Cattlemaster range of crushes.

The headbail has a positive locking mechanism and is designed with both speed and safety in mind.

Standard features:- Full opening to 725mm.


Designs are subject to change without prior notice.


133721	Height 1860mm.	120kg
--------	----------------	-------


Metalcorp Steel Calf Equipment & Load Ramps.





Metalcorp Steel Calf Cradle, Calf Race and Loading Ramps.


	◀ Calf Cradle.
	<p>Table Top/Roll over calf cradle. Adjustable flank bar. Reversible for near side and offside operation/branding. Baulk Gate included.</p> <p>SAP Look up details. GEN-CATTLE-CALF-CRADLE-PTD</p> <p>SAP No. 185771 Stocks at Toowoomba & Emerald.</p>

<p>2 Section Galv Calf Race. 2 x hinged divider gates. Front stopping gate. 1 x fixed section. 1 x portable section for transport. SAP Look up details. GEN-CATTLE-RACE-SECTION-CALF-1300-2450</p> <p>Stocks at Toowoomba & Emerald.</p>	Calf Race. ▶	
	SAP No. 203332	

	◀ Spear Trap.
	<p>These are used to trap cattle on large properties where mustering can be an issue with location, or the area being too wet.</p> <p>Spear Trap - 4 arm.</p> <p>Come with panel lugs. SAP look up details GEN-CATTLE-SPEAR-TRAP-4ARM SAP No. 188561</p>

	◀ Deluxe Loading Ramp.
	<p>The Deluxe ramp is a 4.70 metre fixed height ramp with a hardwood floor, a 1.3 metre flat load section walkway with handrail and side access/block off gate. Made in a unique pin-together style for easy assembly and freight reducing purposes.</p> <p>Full length walkway with handrail - Hardwood floor with steel treads - Side access gate. Basic dimensions:- Length 6000mm, Height 3300mm External width 800mm</p> <p>SAP Look up details:- GEN-CATTLE-LOAD-RAMP-DELUXE-GAL SAP No. 194831</p>

	Adjustable Loading Ramp. ▶
	<p>A 3.6 metre height adjustable ramp with a hardwood floor. Sheeted sides to 500mm - Clever use of Cattle Rail sides. Adjustable for truck or trailer. Length 3600mm, Height 3330mm, Base width 820mm.</p> <p>SAP Look up details:- GEN-CATTLE-RAMP-ADJ-GAL-3600 SAP No. 183854</p>

	◀ Standard Loading Ramp.
	<p>This ramp is a 3 metre fixed height ramp with a steel floor; designed for smaller yard systems or basic loading/un-loading from truck height. Special features include a hardwood floor. sheeted sides to 500mm, top section uses cattle rail.</p> <p>Basic dimensions:- Length 2770mm, Height 3250mm, External base 800mm.</p> <p>SAP Look up details:- GEN-CATTLE-LOAD-RAMP-STANDARD-GAL SAP No. 194832</p>



Arrow Farmquip Rural Crushes.

Arrow Farmquip Rural Crushes.

◀ Q-Catch™ 8100 Vet Crush.

Heavy duty construction. Full parallel squeeze.
 Easy push pull operation. Super squeeze operation
 Four drop down gates each side. Baulk gate standard
 Long ratchet rump bar mechanism. Rattle free door panels
 Offside operation available.
 Head holder optional extra.
 Length 3400 - Height 2350 - Inside width 750mm Weight 747 kg



Q-Catch™ 6100 Vet Crush.▶

Heavy duty construction. Single side parallel squeeze
 Easy push pull operation. Super squeeze operation
 Drop down needle gate on operator side. Baulk gate standard
 Long ratchet rump bar mechanism. Rattle free door panels
 Offside operation available.
 Head holder optional extra.
 Length 3400 - Height 2350 - Inside width 750mm Weight 683 kg



◀ Q-Catch™ 5100 Vet Crush.

Heavy duty construction. Saw tooth side squeeze
 Easy push pull operation. Split gates both sides.
 Needle gate. Baulk gate standard.
 Offside operation available.
 Head holder optional extra.
 Length 3400 - Height 2350 - Inside width 750mm Weight 620 kg



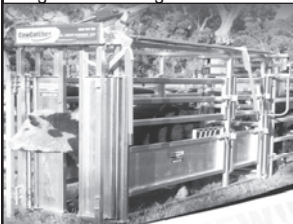
Q-Catch™ 4100 Vet Crush. ▶

Medium duty construction. Saw tooth side squeeze.
 Easy push pull operation. Split gates both sides
 Baulk gate (operational)
 Offside operation available.
 Head holder optional extra.
 Length 3260 - Height 2350 - Inside width 750mm Weight 540 kg



◀ CowCatcher Vet Crush.

Galvanized construction. Sheeted headbail & bottom side gates
 Sliding rear gate. Patented Safety Handle front & rear
 Innovative silent operation.
 Adjustable rear handle.
 Chin bar option available.
 Length 3276 - Height 2300 - Inside width 750mm Weight 400 kg



Crush Options. - Lead times do apply.

Apart from the crushes shown, the following crushes may be ordered as a basic crush - no vet access.

Q-Catch™ 8000	Length 2560 - Height 2350 - Inside width 750mm	Weight 651 kg
Q-Catch™ 6000	Length 2560 - Height 2350 - Inside width 750mm	Weight 587 kg
Q-Catch™ 5000	Length 2560 - Height 2350 - Inside width 750mm	Weight 533 kg
Q-Catch™ 4000	Length 2420 - Height 2350 - Inside width 750mm	Weight 490 kg

Arrow Headbails and Calf Cradles.



Arrow Farmquip Headbails.

◀ The Q-Catch™ Headbail.

Unique headbail locking system - doors lock on the door not trough linkage.
 Heavy duty construction.
 Opens easily under extreme pressure.
 Precision made components.
 "Smooth as" action.



CowCatcher Headbail▶

Fully galvanized construction.
 Filled in head doors.
 Unique silent locking device.
 Chin bar option available.



◀ Q-Catch™ Head Holder.

A unique mechanism holds under the jaw, both sides and top of neck.
 Manufactured to strict quality control standards.
 Aiding with OH & S compliance.



Cattle Weigh Crate▶

Non - slip steel floor. Both front and rear sliding gates.
 Timber side operation available for NLIS readers.
 Suits up to 3 tonne Arrow Farmquip Weigh Scales.
 Basic dimensions:- Length 2840mm, Height 2140mm, Base width 850mm.
 Also available is the Overhead Weight Module for Crushes. Details not shown.



Arrow Farmquip Calf Cradles.

◀ Basic Table Calf Cradle.

Heavy duty ratchet - secure holding. Off side operation - no extra charge.
 Easy access to calf with shaped table.
 Ideal calf working height - 710mm (28")
 Energy saving scissor action design.
 Popular design.



Table Calf Cradle with Gates▶

Heavy duty ratchet - secure holding. Off side operation - no extra charge.
 Easy access to calf with shaped table. Baulk gate standard.
 Ideal calf working height - 710mm (28") Off side operation - No extra charge.
 Energy saving scissor action design. Connects directly into Arrow Yard System.
 Extra length (300mm) also available for longer calves.



◀ Throw Down Calf Cradle.

Secure holding with positive heavy duty ratchet.
 Built-in entry gate makes it easy to use at the end of any calf race.
 Complete self contained unit - no need to stand the cradle against the fence.
 Good access to calves.
 Grease points on cradle pivots ensures smooth working every season.
 Head rest supports calf head when in a horizontal position.





STUDMASTER® Cattle Management Systems.

STUDMASTER® Circular Yards.			A typical 50 Head Yard will consist of a minimum :-	
Size/Code	Works	Holds	18x2.5m Panels	
15C	15	20	4 x 2.5m Gates in Frames	
20C	20	35	2 x Slide Gates	
35C	35	80	1 x False Post	
40C	40	85	54 Joining Pins	
55C	55	100	1 Crush (Optional)	
65C	65	100		
75C	75	120		
83C	83	125	1 Load Ramp (Optional)	
85C	85	125		
100C	100	160		

Yard designs up to 600C (Work 600 - Hold 850). Square yards available.

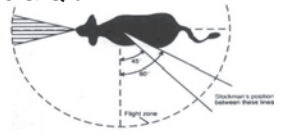
Photo for illustration purposes.

Plans designed with the assistance of NSW Agriculture & Qld D.P.I.

Features

Takes advantage of natural instincts.
Reduced treatment and drafting times.
Heavy duty high strength pipe. (50 NB Pipe)
Available from selected local steel branches.

Minimise injury and baulking.
Ease of operation.
Extra high safety panels.
Designed for easy erection.



Did you know that a beast occupies approximately 2.5 m²? A beast has a field of sight range of approximately 270 degrees.



Metalcorp Steel Crushes & Cattleyard Options.




Metalcorp Steel Crushes		Cattleyard Optional Extras.	
FARMHAND® Crush. (560kg)		Feeders and Cattle Cable.	
	<p>An excellent medium duty crush that is suited for most applications. This crush is designed for producers who do not want to engage in complicated vet practises, yet will have a requirement for handling stock numbers safely and efficiently. This crush has a chin bar, needling gates along with the capability of split drafting gates.</p>		
		<p>Multi Feeder Both Grain & Hay products.</p>	<p>Cattle Cable.</p>
CATTLEMASTER® Crush. (680kg)		Grain Feeders.	
	<p>Designed with a kick down action vet and a needling gate, this crush is suited for most applications for beef/dairy producers. The chin bar, along with the capability of split drafting gates; that are diagonally offset; makes this crush our most popular and genuine all-rounder. The cattle rail and the high sheeted sides; along with minimising gaps; makes this crush easy and safe to use and stops any bruising and scaring of the animals.</p>		<p>Large Grain Feeder - 3tn. Top loaded operation.</p>
		<p>Grain Feeder with Creep Feed panels. Ideal for weaning young cattle. Photos for illustration.</p>	

We can help with your requirements. Just ask us.

Cattle Panels & Accessories.



Cattle Panels.

Cattle Panel Name.	Sizes.	Stiles Height 1.800 m	Number of Rails	Rails Sizes Pipe or Oval	Caps	Feet	Joining Lugs.
STOCKMASTER® Panels 	2.250 m	32 NB Gal	6	32 NB Gal	K32GB	K32GB	Flat Lugs
	2.500 m	32 NB Gal	6	32 NB Gal	K32GB	K32GB	Flat Lugs
	3.000 m*	32 NB Gal	6	32 NB Gal	K32GB	K32GB	Flat Lugs
* Not always available as a stocked item.							
STUDMASTER® Panels 	2.250 m	50 NB Gal	6	50 NB Gal	K50GB	65 x 5 FMS	Flat Lugs
	2.500 m	50 NB Gal	6	50 NB Gal	K50GB	65 x 5 FMS	Flat Lugs
	3.100 m*	50 NB Gal	6	50 NB Gal	K50GB	65 x 5 FMS	Flat Lugs
* Not always available as a stocked item.							
CATTLE KING® Panels 	2.250 m	50x50 RHS	5	115 x 42	K50GB	65 x 5 FMS	Flat Lugs
	2.500 m	50x50 RHS	5	115 x 42	K50GB	65 x 5 FMS	Flat Lugs
	3.100 m*	50x50 RHS	5	115 x 42	K50GB	65 x 5 FMS	Flat Lugs
* Not always available as a stocked item.							



For items marked * please check your local outlet for any alternative options.



Accessories.

There are accessories for the STOCKMASTER®, STUDMASTER® CATTLE KING® panels. Accessories include Manway Gates, Slide Gates & Gates in Frames.

The use of a false post may be needed in some instances due to manufacturing differences between states.

All panels should be interchangeable.



All detail are correct at time of printing. Sizes subject to change with out notification.

Frequently asked questions.

Why do our panels have square tops and not curved tops?

Square top panels help to discourage any beasts from jumping by offering a continuous baulk and not an opening created by the vee joint where two curved top panels would meet.



When laying out a holding yard, how many panels will I need?

The rule of thumb is that a beast will occupy approximately 2.5 m² each.
E.g. 60 head of cattle would need 150 m² or 24 panels and 46 joining pins.



What joining pins do you need?

Our joining pins are 275x65x16mm and are Hot Dipped galvanized.
These joining pins are boxed as 30 per carton.

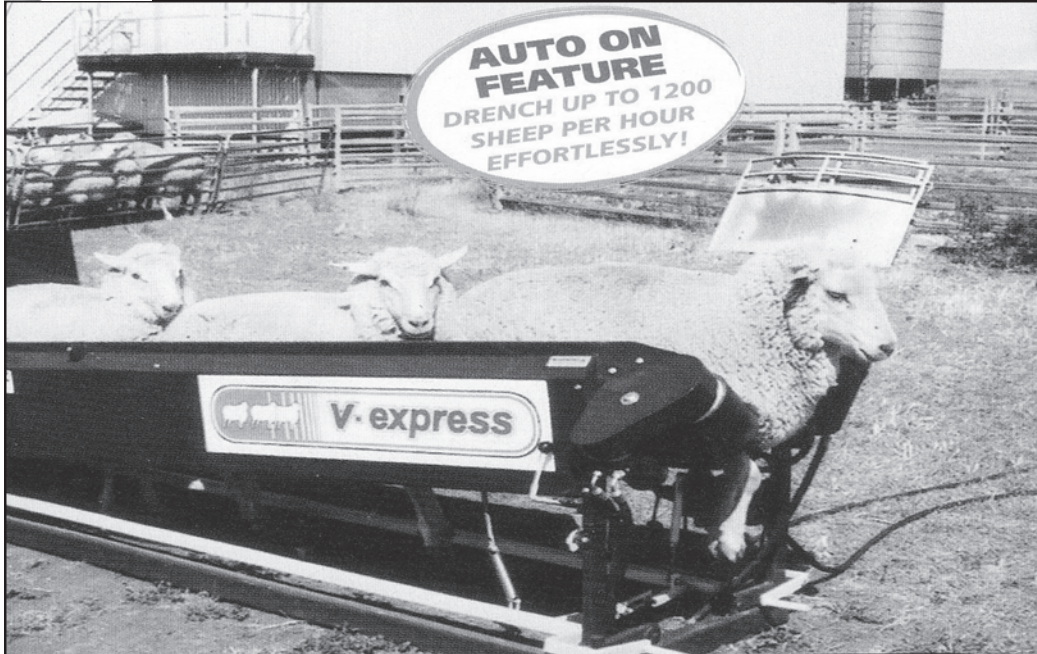
How do we join our panels?

Panels with pipe lug connections will require the use of a False Post to make a 3 way connection.



Goat and Sheep Components.

V-express Sheep & Goat Handling Equipment.



Animals enter at ground level - making it much easier to use. No ramps or belts to balk them.
Saving you labour, energy, time and money.

FLOCKMASTER® & SHEEPMASTER® Sheep Yard Components.



Sheep Panel 3.30m
with centre stay



Sheep Panels 2.20m



Race Bow



Gate in Frame



Manway Gate



Creep Feeder
Stocked in - Lismore,
Toowoomba & Warwick.



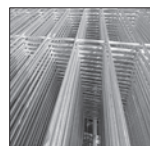
Open Manway
Gate



Corner of
Sheep Yard



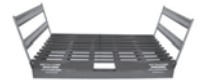
Three Way Sheep Draft Unit



Sheepyard Mesh - Galvanized
6.0m x 0.900m and 6.0m x 1.100m

**The strength of permanent yards with
the flexibility of portable yards.**

STOCKSAFE™ Access Grids.



STOCKSAFE™ Access Grids.

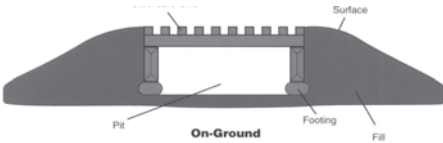
Size m	LIGHT FARM DUTY (Limited Stock Item.) kg/ea	HEAVY FARM DUTY (Limited Stock Item.) kg/ea	HIGHWAY DUTY kg/ea
3.0 x 2.0	255	733	923
3.6 x 2.0	-	875	1098
4.0 x 2.0 (Qld)	-	-	1200
4.2 x 2.0	-	1080	1264
Grid Wings	Pair	Pair	Pair

All grids are manufactured with mounting brackets for side wings. Wing sets are supplied as an optional extra.

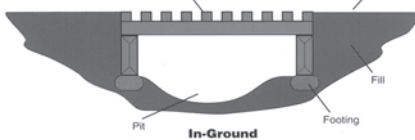
NB. We reserve the right to produce Grid sub frames from RHS, U-Beams, U-Columns or similar products.

Approximate Depth Overall - 450mm. The overall height may vary when using various products for the subframe.

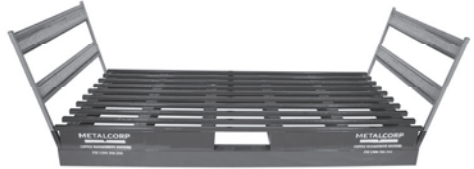
STOCKSAFE™ Grid applications shown below.



On-Ground



In-Ground



Unrated Grids - Wings shown are an optional extra.

STOCKSAFE™ Access Grids.

Designed to provide SECURITY

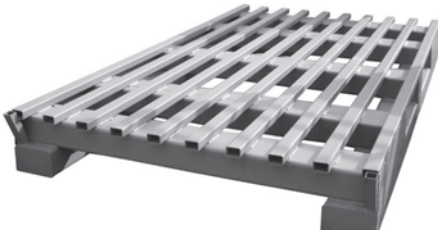
Designed for SAFETY

Designed to LAST

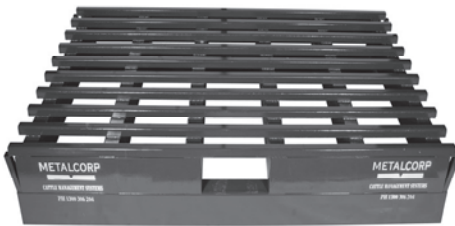
Engineer designed to Australian Standard Specifications.

A firm compacted footing is required for both in ground and above ground installations. Ensure that the compacted ground surface is level with grid rails. Incorrect surface level will affect the life of the grid. Care should be taken to ensure that the grid sits correctly in relation to the camber of the road.

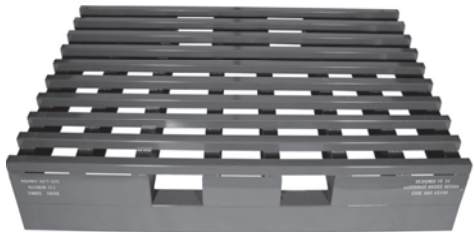
Compaction of filled area is critical to the successful grid installation and ultimately, the grid life.



Light Farm Duty Access Grid. (A limited item.)



Heavy Farm Duty Access Grid. (A limited item)



Highway Duty Access Grid.

Please ensure adequate lifting equipment is available when receiving your Grid from your Steel outlet.

Details and sizes may change without prior notice. Unrated grids may also be available.



Electric Fencing.

Electric Fencing Components.

Details courtesy of



Mains Energizers:-

- M-50 Powers up to 5 km.
- M-200 Powers up to 20 km
- M-800 Powers up to 70 km
- M-1800 Powers up to 140 km



- M-100 Powers up to 10 km
- M-400 Powers up to 40 km
- M-1200 Powers up to 95 km



Battery Energizers:-

For dry country conditions, energizers work effectively over greater distances.

- B-12 Powers up to 2 km
- B-40 Powers up to 5 km
- B-150 Powers up to 20 km
- B-500 Powers up to 60 km



- B-6/12 4 D Cells or 12 volt
- B-70 Powers up to 10 km
- B-300 Powers up to 35 km
- B-1000 Powers up to 100 km

Electric fence systems tend to grow, so purchase an energizer that will power the final fencing system.

Battery energizers, including solar, are best placed in the centre of the fence line and protected from animals.

Self Contained Solar Energisers

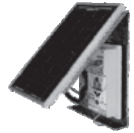
SOLAR 2000 Powers up to 2 km

SOLAR 5000 Powers up to 5 km

Solar systems require individual designs for different locations.



Energizer selection is determined either by acreage to be fenced or the length of fence.



Cables

- 25mt x 1.6mm u/g cable
- 50mt x 1.6mm u/g cable
- 100mt x 2.5mm u/g cable

- 25mt x 2.5mm u/g cable
- 50mt x 2.5mm u/g cable
- 200mt x 2.5mm u/g cable

Ideal for long distances underground and for leadout, earth cabling through building or where there are numerous gateways in the leadout system.

Polytape and Polywire

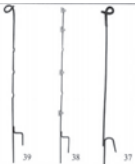
- 200mt Polytape - white
- 400mt Polytape - white
- 200mt Super Polytape
- 100mt 40mm wide Polytape
- 500mt Polywire



- 200mt Polytape - orange
- 400mt Polytape - orange
- 400mt Super Polytape
- 200mt Polywire
- 200mt Super Polywire



Tape is generally used where visibility is important. Polywire is preferable where wind or adverse weather conditions would "work" a tape to deterioration.

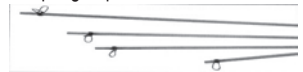


Fibreglass Equipment

- 1000mm Fibreglass Post
- 1500mm Fibreglass Post
- Nylon Driver Caps



1250mm Fibreglass Post Spring Clips



Fencing Components

- Cut-Out Switch
- Tape Gate
- Lite Volt Tester
- Energiser Battery
- Gate Handles
- Porcelain Stand Offs Complete
- Insulated Ratchet Strainers

- Gate Handle
- Wire Spinner
- Spring Gate
- Steel Post Insulators
- Wood Post Insulators
- Spring Steel Thread ins
- Multi Wire Thread ins



A power fence is a psychological barrier that keeps farm animals in and vermin out. A pulsed electric current is sent along the fence wire and when an animal touches the fence, the circuit is complete and a short, sharp but safe shock is received. The shock is sufficiently memorable that the animal never forgets.

Everything in Steel - Other Products.



Bolt Cutters



Safety Caps



Fencing Clips



Dust Masks



Hexagonal Mesh.



Tie Wires



Hammers



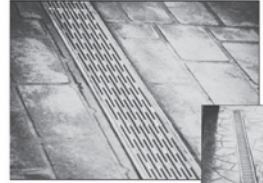
Tapes



Manu Pliers



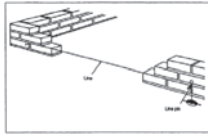
Concrete Floats



Uni-flow Grating & Pits



Stair Stringer 1 - 17 steps



String Lines











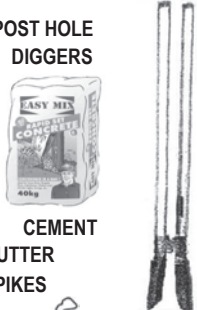




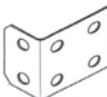




Fencing Pliers



Now! Most branches will have a Handy Rack which will contain assorted steel sections at approximately 2.0 metre

Everything in Steel - Other Products.

<p>POST Base Plates</p> <p>Top Plate - 75 x 10 mm - 75mm/1 hole Top Plate - 75 x 10 mm - 150mm/1 hole Top Plate - 75 x 10 mm - 225mm/2 holes Base Plate - 75 x 10 mm - 225 mm</p>  <p>TWISTING TOOL</p>  <p>BAG TIES</p>  <p>NUTS (100)</p> <p>8 mm Zinc Plated 10 mm Zinc Plated 12 mm Zinc Plated</p> <p>12 mm Gal 16mm Gal</p> 	<p>BOLTS</p> <p>10 & 12 mm Gal Cup Head bolts 8, 10, 12 & 16 mm Gal Hex Head bolts</p>  <p>10 mm Galvanized Coach Screws</p> 																								
<p>BUGLE HEAD Type 17 Screws</p> <p>Type 17 Bugle Hex - Timber Screws</p> <p>Type 17 Bugle Hex - Treated Pine Screws</p> 	<p>THREADED RODS - Zinc Plated</p> <table border="1"> <tr> <td>[Dia x length]</td> <td>[Dia x length]</td> </tr> <tr> <td>6 mm x 1 metre</td> <td>10 mm x 3 metre</td> </tr> <tr> <td>10 mm x 1 metre</td> <td>12 mm x 3 metre</td> </tr> <tr> <td>12 mm x 1 metre</td> <td>16 mm x 3 metre</td> </tr> <tr> <td>16 mm x 1 metre</td> <td></td> </tr> </table> <p>SQUARE WASHERS - (per 100)</p> <table border="1"> <tr> <td></td> <td colspan="3">Bolt Size x mm x mm x thickness mm</td> </tr> <tr> <td rowspan="3">Zinc Plated finish.</td> <td>10 mm</td> <td>38 x 38</td> <td>3 mm</td> </tr> <tr> <td>12 mm</td> <td>50 x 50</td> <td>3 mm</td> </tr> <tr> <td>16 mm</td> <td>50 x 50</td> <td>3 mm</td> </tr> </table> 	[Dia x length]	[Dia x length]	6 mm x 1 metre	10 mm x 3 metre	10 mm x 1 metre	12 mm x 3 metre	12 mm x 1 metre	16 mm x 3 metre	16 mm x 1 metre			Bolt Size x mm x mm x thickness mm			Zinc Plated finish.	10 mm	38 x 38	3 mm	12 mm	50 x 50	3 mm	16 mm	50 x 50	3 mm
[Dia x length]	[Dia x length]																								
6 mm x 1 metre	10 mm x 3 metre																								
10 mm x 1 metre	12 mm x 3 metre																								
12 mm x 1 metre	16 mm x 3 metre																								
16 mm x 1 metre																									
	Bolt Size x mm x mm x thickness mm																								
Zinc Plated finish.	10 mm	38 x 38	3 mm																						
	12 mm	50 x 50	3 mm																						
	16 mm	50 x 50	3 mm																						
<p>HEX HEAD Type 17 - Roofing Screws</p> <p>Roofing Screws with Neo Washers - to Timber Roofing Screws with Neo Washers - to Steel Roofing Screws - Metal Cladding</p> 	<p>TREAD MOUNTS</p> <p>Galvanized/Black Steel Weld on/bolt on universal steel tread mounts ideal for wooden or steel stringers.</p>  <p>POST HOLE DIGGERS</p>  <p>CEMENT GUTTER SPIKES</p> 																								
<p>WIRE STRAINERS</p>  <p>STEEL POST DRIVERS</p> 	<p>ANGLE CONNECTORS</p>  <p>GENERAL PURPOSE BRACKETS</p>  <p>CONCEALED GUTTER BRACKETS</p>  <p>GUTTER STOP ENDS</p> 																								

Not all products may be a stocked item. Please check.

Chains, Shackles & Load Restraints.



Chains, Fittings & Load Restraint Products.



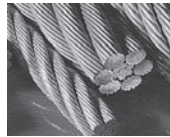
Ratchet Assemblies



Rope



Turnbuckles



Wire Ropes & Fittings



Transport Chain & Fittings



Chain Dogs



Shackles

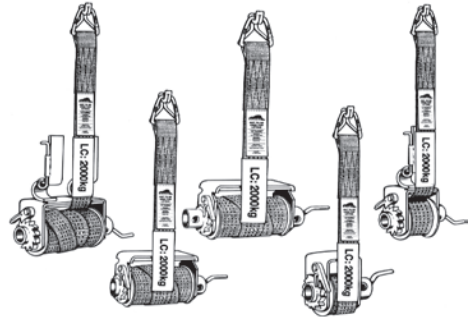


Code: 120A3 (BARE)

Display Stand



Turnbuckles



Load Binders



Ratchet Tie Downs



Ratchet Load Restraints



Clevis Hooks



Chain



Snap Hooks



Shackles



Hooks



Wire Thimbles



Wire Rope Configuration



Wire Rope Ferrules



Wire Rope Grips



"U" Bolts



Wire Ropes



Truckers Ropes



Fibre Ropes



If you need other products, please check with your local outlet.

Welding Needs.



Welding Needs.





Size	Description	Mass	Packed as
2.5 mm 13GP	Electrodes	5kg	3 x 5 kg
3.2 mm 13GP	Electrodes	5kg	3 x 5 kg
2.5 mm 12GP	Electrodes	5kg	3 x 5 kg
3.2 mm 12GP	Electrodes	5kg	3 x 5 kg
2.5 mm 13GP	Electrodes	1kg	10 x 1 kg
3.2 mm 13GP	Electrodes	1kg	10 x 1 kg
2.5 mm 12XP	Electrodes	Blister Pack	10 Rods/Pkt
3.2 mm 12XP	Electrodes	Blister Pack	5 Rods/Pkt
0.8 mm	Mig wire	15 kg	54 x 15 kg
0.9 mm	Mig wire	15 kg	54 x 15 kg
1.2 mm	Mig wire	15 kg	54 x 15 kg

Welding Rods			Electrode Holder
Lift Front Helmets			Earth Clamp
Leather Aprons			Riggers Gloves
Welding Gloves			Chipping Hammer
Leather Spats			Mig Wire - Spools



Cut Off Wheels & Grinding Wheels.

Cut Off Wheels and Grinding Wheels.

Cut Off - Code	OD x t x Arbor		Grinding - Code	OD x t x Arbor	
100 - 137740	100 x 2.5 x 16		100 - 143836	100 x 6 x 16	
115 - 184177	115 x 2.5 x 22	115 - 143837	115 x 6 x 22		
125 - 188785	125 x 2.5 x 22	125 - 143838	125 x 6 x 22		
178 - 191243	178 x 3.0 x 22	180 - 143839	180 x 6 x 22		
230 - 143816	230 x 3.0 x 22	230 - 143840	230 x 6 x 22		
350 - 191244	350 x 3.0 x 25.4	Poly Fan 60 Grit - SAP Code			
350 Econ - 184181	350 x 3.0 ECON	100 - 184207	100 x 16		
400 - 143820	400 x 3.0 x 25.4	125 - 186056	125 x 22		
Ultra Thin Cut Off Wheels - Code		Twist Knot Brush - SAP Code			
100 - ULTR - 184174	100 x 1.0 - ULTR	TBG100 - 186046	100 x 14mm		
115 - ULTR - 184176	115 x 1.0 - ULTR	SBTBG65 - 189263	65 x 14mm		
125 - ULTR - 184178	125 x 1.0 - ULTR	Handle Length	Wire Brush		
178 - ULTR - 184180	178 x 1.6 - ULTR	Short - 183987	4 Row		
230 - ULTR - 186050	230 x 1.9 - ULTR	Long - 183986	4 Row		

Images are for illustration purposes only. Products may vary from locations.



Paints & Metal Protections.

Metals Protection.



400g Cans

◀ Silver Galv.

Silver Galv is a fast drying anti corrosive silver paint formulated for all metal surfaces including, roofing, steel structures, Galv pipes, fencing, etc.

Liquid Zinc. ▶

Use Liquid Zinc Grey Cold Galv-amazing Touch-Up paint for heavy duty applications.



400g Cans



◀ Metal Working Compound.

This is a heavy duty extreme pressure product suitable for arduous duties such as metal cutting, boring, drilling, tapping, reaming or drawing and forming operations.

Silver Grade Anti-Seize ▶

A water repellent compound, with outstanding anti-seize properties in high temperatures up to 1600°. Resistant to weak caustic and corrosive solutions. Pressure of 100,000 psi.



450g Tin



◀ Write & Mark.

A thin narrow spray fan.
For end coding of steel hollows.
Saves money.
350g Aerosol
8 Colours.

Metals Protection.

◀ Zinc 2 in 1 Aerosol Cans.

Black Zinc

These products apply a zinc rich coating, which protects clean steel in the same way as hot dipped galvanizing.

Yellow Zinc

Silver Zinc

Zinc 2 in 1 gives exceptional protection against rust and corrosion.

White Zinc

Blue Zinc

Ideally suited for touch up on welds and on damaged structures and components.

Colours are listed alongside.



400g Cans

◀ Red Oxide

Suitable for use on all steel, ferrous and non-ferrous metals, timber and fibreglass. Has rust inhibiting properties and can be top coated with either enamel, acrylic or lacquer paints.

Anti Spatter. ▶

Prevents weld spatter from bonding to metal surfaces. Suitable for both MIG and electrode welding.

Mild steel, Stainless & Aluminium

Non Flammable, Paintable, Non Silicone.

400g Cans



1 Ltr Tin

◀ Graffiti Remover.

Removes those unwanted signs and art works

◀ Lanolin Plus.

An aerosol spray for timber furniture, leather seats etc.



400g Cans



◀ Silicone SafeSpray.

A great release agent or use as a lubricator.

400g Cans

Other Industrial Products - Bulk.

Silver Zinc - 1 litre, 4 litre & 20 litre

Liquid Zinc - 1 litre & 4 litre

Black Zinc - 4 litre & 20 litre

Blue, Yellow, White Zinc - 4 litre & 20 litre

Red, Black & Grey Structural Primer - 4 litre & 20 litre

Citra Gel Hand cleaner - 5 litre & 20 litre

Graffiti Remover - 1 litre

Silicone Plus - 20 litre





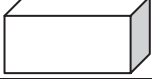





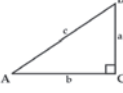








Products may not be stocked at all locations.



How Can I Calculate that?

Geometric Shapes.

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

Shape	Area or Volume	Formulae	Results - Area or Volume
Rectangles Squares Cubes	Area Area Volume	Multiply the length by width. Multiply the length by width. Length x Width x Height	$A (m) \times B (m) =$ Square metres. $A (m) \times B (m) =$ Square metres. $A (m) \times B (m) \times H (m) =$ Cubic metres.
			
Circles Circles Sector of a Circles	Circumference Area Area	Multiply diameter x Pi or (3.142858) (Pi) x Radius x Radius or (R^2) Length of Arc x Half Radius	$D (m) \times (Pi) =$ metres. $(R^2) \times (Pi) =$ Square metres. $A (m) \times R/2 =$ Square metres.
			
π (Pronounced Pi) = 22 divided by 7 or (3.142858)			
Triangles	Area	Base/2 x Height	$B/2 (m) \times H =$ Square metres.
			
Ellipse Ellipse	Area Volume	Long axis x Short axis x 0.7854 Long axis x Short axis x 0.7854 x L	$D1 (m) \times D2 (m) \times 0.7854 =$ Square metres. $D1 (m) \times D2 (m) \times 0.7854 \times L (m) =$ Square metres.
Such a shape is a Petrol Tanker.			
Cylinder Cylinder	Area Volume	Circumference of base x Height Area of base x Height	$D (m) \times (Pi) \times H (m) =$ Square metres. $(R^2) \times (Pi) \times H (m) =$ Cubic metres.
Such a shape is a storage tank.			
Sphere Sphere	Area Volume	Diameter x Diameter x (Pi) Diameter x Diameter x Diameter x 0.5236	$D (m) \times D (m) \times (Pi) =$ Square metres. $D (m) \times D (m) \times D (m) \times 0.5236 =$ Cubic metres.
Now to work out the area of the world.			
Pyramid Pyramid	Area Volume	Perimeter of base x Slant Height/3 Area of base x Vert Height/3	$(A (m) + B (m) \times 2 \times \text{Slant height})/3 =$ Square metres. $(A (m) \times B (m) \times H (m))/3 =$ Cubic metres.
Maybe the Egyptian pyramids?			

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



Birmingham Gauge Converter.



Quick Tips!

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

Australian Standards are from Standards Australia.

Quick Tips!	
To Calculate the mass of steel circular hollow sections (as used in Australian Standards AS 1163)	
Circular sections	
Mass = (OD - w t) x w t x 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	
Mass = t x 7.850 x (L x W)	
where: Mass = mass/metre ²	(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 ² .	
To calculate the mass of Flats, Squares & Rounds.	
Flats: Width (mm) x Thickness (mm) x 0.00785 = kg/m.	
Squares: Size (mm ²) x 0.00785 = kg/m.	
Rounds: Dia: (mm ²) 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 x N x C (0.2618) = Length in feet/3.28 = metres.	
eg:- 26" x 61 x 0.2618 = 415.22' divide by 3.28 = 126.6m	
Australian Standards as listed in this Steel Guide.	
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	Baltube handrail system.

Common Metal terms.



Common Metallurgical Terms.

ABRASION RESISTANCE.	Resistance to frictional rubbing, as distinct from a resistant to knocks and impacts.
ANNEALING.	A process involving heating and cooling, applied usually to induce softening. The term is also used to cover treatment to:- Remove stresses - After mechanical or physical properties - Produce a definite microstructure. Remove dissolved gases.
BEND TEST.	A test of ductility where a test piece must withstand; without fracture; bending through a specific angle around a specified diameter.
CAMBER.	The deviation of a side edge of metal sheet or strip from a straight edge.
CHALKING.	A chalk-line formation on the surface of an organic coating caused by the breakdown of the surface layer of resin, releasing pigment particles and fillers normally bound by the resin. This phenomenon normally occurs after long exposure to sunlight.
COLD ROLLING.	Is the reduction of hot-rolled pickled steel strip to a specified thickness, using a series of stands of rolls. This distorts the grain structure of the steel and also the loss of ductility.
DUCTILITY.	The ability of a metal to deform from a flat condition into a complex shape without fracture.
ELASTICITY.	That property of a material which causes it to resume its original form after removal of a load.
FINISH.	Finish refers to the degree of smoothness of the lustre of the sheet.
FLATNESS.	The flatness of sheet metal may be defined as the absence of any waviness or buckle.
GALVANIZING.	The process of applying a coating of zinc to a surface of iron or steel to provide a corrosion resistant surface. Zinc coating may be applied by hot dipping or by electroplating.
GLOSS.	The degree to which a painted surface possesses the property of reflecting light in a mirror like manner. COLORBOND steel surfaces are produced in a 10%, a 25% and an 80% gloss level.
HEAT TREATMENT.	An operation or combination of operations involving the heating or cooling of a metal or alloy in a solid state for the purpose of obtaining desired conditions or properties.
KILLED STEEL.	A steel with deoxidants such as aluminium or silicon added before casting molten steel to remove oxygen and so prevent evolution of carbon monoxide and chemical segregation during cooling.
LOCK SEAMS.	The closing of a tight seam of lock-formed edges of sheet metal. An example is a Pittsburgh lock-seam, a grooved single lock-seam or a snap lock-seam.
LUSTRE.	Lustre finish is a smooth finish for electroplating achieved by using specially prepared rolls. Some surface preparation by the plater may be necessary.
MATT.	Cold-rolled products are available with either a matt or lustre finish. The matt finish is produced by rolling with mechanically roughened rolls.

These details courtesy of the LYSAGHT Referee.

Common Metal terms. (Cont).

Common Metallurgical Terms.

MECHANICAL PROPERTIES.	Properties relating to the behaviour of materials under load in conventional mechanical tests, such as elastic modulus, tensile strength, elongation and hardness.
NORMALIZING.	Heating steel to; and if necessary holding at; a suitable temperature above the transformation range, followed by cooling in an atmosphere to ambient temperature, in order to produce a medium-to-fine pearlite microstructure.
PICKLING.	Removal of oxide films from metal by immersion in an acid. The process is applied to scale removal from metal prior to operations such as cold rolling, wire drawing and electroplating. Absorption of hydrogen may occur in pickling causing embrittlement of hard steels and necessitating low temperature annealing for its removal.
PRESSING.	This is a metal working process in which a flat blank; constrained between two surfaces; is forced by a punch to take a required shape.
PRIMER.	The first coat of a painting system applied to an unpainted surface. It has very good adhesion and corrosion inhibitive properties.
ROLLING DIRECTION.	The direction in which strip has been rolled. Longitudinal or Transverse.
SCALE.	Layers of iron oxide formed on the surface of hot steel when oxygen in the air combines with iron from the steel.
SKIN-PASSING.	A light cold rolling operation (about 1-2% of cold works) that removes the yield point in steel which otherwise causes coil break, fluting or stretcher strain in subsequent operations.
SPANGLE.	Grains or crystals of zinc, or zinc/aluminium as appearing on hot-dipped metallic coated steel.
STRESS RELIEVING	Heating a metal to and holding it at some temperature, generally below recrystallization range, followed by uniform cooling, for the purpose of removing internal locked stresses.
STRETCHER LEVELLED	Stretcher levelled; as applied to sheets; indicates a standard of flatness. The term originated from an early method of gripping the ends of sheets and stretching it to remove buckles.
STRIP.	A continuously rolled flat product of any width and thickness, supplied rolled into a coil form.
TEMPER.	To modify the hardness of metals. Adjustment of hardness of heat treated articles by controlled heating after quenching. An increase in hardness by cold rolling. The degree of cold rolling is variable depending on the required hardness and is more than that of skin-passing.
TENSILE TEST.	A standard sample of material is placed between two jaws and drawn apart in a tensile testing machine until fracture. The ultimate tensile strength is the load divided by the cross section area of the sample.
WASH COAT.	The coating applied to the back or exposed side of the painted strip. There are standard wash coat colours for COLORBOND steel products.
YIELD POINT.	The stress at which a material is permanently deformed
YIELD STRENGTH.	The strength at which steel first exhibits plastic strain.

Notes.



Notes.

Disclaimer:-

While every care was taken in preparing the data within this publication, no liability will be accepted for the accuracy of information supplied or any loss resulting from the use of this data.



Important Details & Phone Numbers.

Important Details & Telephone Numbers.

My Local Steel Outlet details	Ph	Fax
My Local Steel Contacts	Sales Ph	Fax
	Credit Ph	Fax
My Local Steel Account Number		
The Local Police Phone Number		
The Local Ambulance Phone Number		
The Local Fire Department Phone Number		
Other Important Phone Numbers		
Important Birthdays		
Other Important Dates		
Drivers Licence Renewal Date		
Pages of interest in this book		

METALCORP

Everything in Steel

www.metalcorpsteel.com.au

Phone 1300 306 204



Locations.

Phone Number.

Locations.

Phone Number.

QUEENSLAND

Acacia Ridge - No stock held.	Ph: (07) 3452 3888
Charters Towers	Ph: (07) 4761 5000
Emerald	Ph: (07) 4983 7333
Kawana (Sunshine Coast)	Ph: (07) 5437 1240
Lismore	Ph: (02) 6626 4166
Mareeba	Ph: (07) 4048 4130
Northgate	Ph: (07) 3622 9323

QUEENSLAND (Cont)

Oxley	Ph: (07) 3716 3177
Roma	Ph: (07) 4624 3400
Toowoomba	Ph: (07) 4616 1333
Townsville	Ph: (07) 4762 7233
Warwick	Ph: (07) 4667 5080
Woodridge	Ph: (07) 3884 9999

SOUTH AUSTRALIA

Adelaide (Ottoway)	Ph: (08) 8301 3777
--------------------	--------------------

SOUTH AUSTRALIA (Cont)

Elizabeth	Ph: (08) 8307 4311
-----------	--------------------

NEW SOUTH WALES

Sydney (St Marys)	Ph: (02) 8808 2555
Albury	Ph: (02) 6058 5466
Armidale	Ph: (02) 6774 8610
Bathurst	Ph: (02) 6330 9333
Coffs Harbour	Ph: (02) 6648 7111
Dubbo	Ph: (02) 6841 2155

NEW SOUTH WALES (Cont)

Motto Farm	Ph: (02) 4980 7411
Orange	Ph: (02) 6392 8566
Port Macquarie	Ph: (02) 6589 4900
Tamworth	Ph: (02) 6755 3233
Wagga Wagga	Ph: (02) 6932 3500
West Gosford	Ph: (02) 4328 7455

VICTORIA

Ballarat	Ph: (03) 5320 7833
Bendigo	Ph: (03) 5434 9860
Dandenong	Ph: (03) 9768 1200
Geelong	Ph: (03) 5247 4100
Portland	Ph: (03) 5522 4254

VICTORIA (Cont)

Mildura	Ph: (03) 5051 6381
Shepparton	Ph: (03) 5821 1688
Warrnambool	Ph: (03) 5559 4260
Wodonga	Ph: (02) 6022 9588

WESTERN AUSTRALIA

Balcatta	Ph: (08) 9229 4460
----------	--------------------

WESTERN AUSTRALIA (Cont)

Kewdale	Ph: (08) 9251 2500
---------	--------------------

Metalcorp Steel Pty Ltd - ABN 13002581213



Call 13 72 82



<u>Locations.</u>	<u>Phone Number.</u>	<u>Locations.</u>	<u>Phone Number.</u>
QUEENSLAND		QUEENSLAND (Cont)	
Northgate	Ph: (07) 3246 9222	Mt Isa	Ph: (07) 4747 2833
Bundaberg	Ph: (07) 4131 4200	Rockhampton	Ph: (07) 4924 3233
Cairns	Ph: (07) 4048 9400	Toowoomba	Ph: (07) 4614 2000
Gladstone	Ph: (07) 4979 6400	Townsville	Ph: (07) 4729 3939
Mackay	Ph: (07) 4968 1666		

NEW SOUTH WALES		NEW SOUTH WALES (Cont)	
Albury	Ph: (02) 6058 5488	Dubbo	Ph: (02) 6841 2800
Auburn	Ph: (02) 9714 8000	Port Macquarie	Ph: (02) 6589 4900
Cardiff	Ph: (02) 4904 6410	Tamworth	Ph: (02) 6755 3222
Coffs Harbour	Ph: (02) 6648 7388	Wagga Wagga	Ph: (02) 6932 3599

VICTORIA		VICTORIA (Cont)	
Ballarat	Ph: (03) 5320 7855	Morwell	Ph: (03) 5134 6266
Bendigo	Ph: (03) 5448 3811	Portland	Ph: (03) 5522 4255
Geelong	Ph: (03) 5240 0300	Shepparton	Ph: (03) 5821 1688
Horsham	Ph: (03) 5362 5333	Westall	Ph: (03) 9549 2666
Mildura	Ph: (03) 5051 6388	Wodonga	Ph: (02) 6022 9588

SOUTH AUSTRALIA		NORTHER TERRITORY	
Ottoway	Ph: (08) 8301 3801	Darwin	Ph: (08) 8984 2600

WESTERN AUSTRALIA		WESTERN AUSTRALIA (cont)	
Albany	Ph: (08) 9841 9700	Geraldton	Ph: (08) 9921 9300
Bunbury	Ph: (08) 9724 5220	Kalgoorlie	Ph: (08) 9024 1388
Esperance	Ph: (08) 9072 3100	Kewdale	Ph: (08) 6250 1000

TASMANIA		TASMANIA (Cont)	
Hobart	Ph: (03) 6211 4330	Launceston	Ph: (03) 6324 1250

Our **Project & Processing** Services

Our nationwide network of specialist metals distribution businesses offers a range of value added services to our customers.

WAREHOUSING AND LOGISTICS

Our modern warehouse facilities are serviced by a fleet of delivery vehicles and are designed to process, store, receive and despatch sheet, coil and other metal products with maximum efficiency while maintaining excellent quality.

High product quality delivery standards are maintained by storing products undercover, with inspection prior to despatch, and packaging the material to ensure that no damage occurs in storage or transit.

INVENTORY AND STOCK MANAGEMENT

Inventory Management Programs utilising SAP/MRP software ensure the availability of materials, purchased at competitive prices and held against customer forecasts and delivery schedules.

Our customers benefit from;

- Reduced capital required to finance stock holdings
- Reducing your own warehouse space for stock
- A reduction of damage in storage
- Reducing the management hours needed for inventory.

MATERIALS PROCESSING

Our modern processing centres are able to process a wide range of steel products, dimensions, types and grades. From state of the art multi-blanking, guillotining, shearing, slitting for our sheet and coil product range to plasma, oxy and saw cutting, drilling and coping for our Steel and Tube product range; our businesses are ready to provide all your steel processing needs.

EXPORT SERVICES

Our Exports business unit is in place specifically to supply and service our overseas customers with all products and services within BlueScope Distribution.

Whether it is bulk supply of high quality steel plate or the airfreight of a small, single, specialised valve to the remotest of locations, the export sales unit has the resources, experience and commitment to satisfy your metal supply requirements.



The information contained in this brochure is provided by way of general information only, and should not be relied upon by any person. You must seek specific advice as to the suitability of the products featured in this brochure for the purpose for which, and the manner in which, you propose to use them. This may involve further independent analysis and testing. BlueScope Steel Limited, and its related bodies corporate take no responsibility for any adverse consequences of any nature which arise as a result of reliance on this brochure. © 2008 BlueScope Steel Limited (ABN 16 000 011 058)

BlueScope is a trade mark of BlueScope Steel Limited ABN 16 000 011 058.