



Abrolhos Steel
YOUR PROJECTS • OUR SOLUTIONS



STEEL GUIDE

Ph: 08 9921 9300 — www.abrolhossteel.com.au

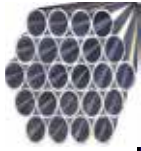


PRODUCT LIST 2016-17

INDEX

| Index | Page |
|--|------|
| <u>Pipes and Associated Products</u> | |
| Pipe — Extra Light — Light | 1&2 |
| Pipe — Medium — Heavy — Extra Heavy | 3&4 |
| General Purpose Galvanising Mesh | 5 |
| <u>RHS Sections</u> | |
| RHS — Square Sections 20x20 to 89x89 | 6 |
| RHS — Square Sections 100x100 to 400x400 | 7 |
| RHS — Rectangular Sections 50x20 to 127x51 | 8 |
| RHS — Rectangular Sections 150x50 to 300x400 | 9 |
| Yard/Stock Rails & Joiners/Clips/Caps | 10 |
| Telescoping SHS/RHS Sections | 11 |
| <u>Black Steel Products</u> | |
| Flat Mild Steel — 13x3 to 130x25mm | 12 |
| Flat Mild Steel — Unequal Angles | 13 |
| Equal Angles — Squares — Light Billets | 14 |
| Round Mild Steel — Railway Line | 15 |
| Tapered Flanged Beams — Channels | 16 |
| Universal Beams — Universal Columns | 17 |
| Compound Plain & Lipped Channels | 18 |
| Welded Beams — Welded Columns | 19 |
| <u>Plates and Steel Sheets</u> | |
| Plain Plates — Coil Plates | 20 |
| Grade 350 Plates — Pressure & Boiler Plates | 21 |
| Floor Plates — Quenched & Tempered Plates | 22 |
| International Standards — Structural Plates | 23 |
| International Standards — Boiler Plates | 24 |
| <u>Sheet Metal Products</u> | |
| Hot Rolled & Brightform Sheeting | 25 |
| Lyten-Cold Rolled-Colorbond® Steel-Zincalume® steel | 26 |
| Zincanneal® Steel | 27 |
| Galvabond® Steel | 28 |
| <u>Aluminium, Van Siding & Stainless Steels</u> | |
| Aluminium Sheets & Plates | 29 |
| Aluminium Flats, Angles & Rounds | 30 |
| Aluminium Hollows & Round Tubes | 31 |
| <u>Special Steel</u> | |
| Engineering Steels | 32 |
| Hollow Bar — Euro Norm Sizing | 33 |

| Index | Page |
|---|-------|
| <u>Flooring & Hand Railing</u> | |
| Floormesh — Gripspan — Alu-Tread Roof Walkway | 34 |
| Balltube Handrail — End Closures — Safety Gates | 35 |
| <u>Perforated Sheets & Woven Wires</u> | |
| Perforated Sheet | 36 |
| <u>Reinforcing Products & Mesh (Pages 59-78)</u> | |
| Meshes and Bars | 37&39 |
| Reinforcing Bars, Swimming Pool Reinforcing Bars | 40 |
| Starter Bars, Footing Casings & Spirals | 41 |
| Plastic Spaces & Bases | 42&44 |
| Trench Mesh Support, Block Spacers | 45 |
| Lysaght Bondek & Accessories | 46 |
| Crack Inducers, Dowels & Dowel Serts | 47 |
| Dowel Master & Dowel Accessories | 48 |
| <u>Building Products</u> | |
| Reid Construction Systems | 49 |
| Tie Wires, Loop Ties & Tools | 50 |
| Steel Building Components | 51 |
| Supa"C" & "Z" Purlins, Guttering & Bondek® | 52 |
| Roof Sheet Profiles + Wall Sheet Profiles | 53 |
| Colorbond® steel Fence Colour Matrix — Components | 54 |
| Rainwater Tanks and Water Harvesting | 55 |
| <u>Fencing — Mesh — Gates</u> | |
| Post Caps — Fence Fittings | 56 |
| Chainwire — Domestic Roll Top Fencing Options | 57 |
| Alternative Domestic & Rural Fencing Options | 58 |
| Security Fencing Options — Fencing Wires | 59&60 |
| Hexagonal Wire Netting | 61 |
| <u>Cattle Handling Components</u> | |
| 5 Bar Gates Centre Brace — Mesh Gates — Gate Fittings | 62 |
| General Purpose Galvanising Mesh | 63 |
| Cattle Management Accessories | 64 |
| Cattle Panels, Benefits & Yard Layouts | 65 |
| Metalcorp Steel Calf Cradle, Race & Load Ramps | 66 |
| Building Cattle Yards & Components | 67 |
| Spear Traps — Alternate Cattle Yard Options | 68 |
| Crushers & Head Bails | 69 |
| Stocksafe® Cattle Grids | 70 |
| Goat Handling Equip & Studmaster® Sheep Yards | 71 |
| Building Your Sheep Yard Options | 72 |
| <u>Additional Information</u> | |
| How Do We Calculate Odd Shapes? | 73 |
| Conversion Tables | 74 |
| Birmingham Gauge Converter — Quick Tips | 75 |
| Mass Density of Materials | 76 |
| Common Metal Terms — Page 1 | 77 |
| Common Metal Terms — Page 2 | 78 |
| <u>Location</u> | |
| 9 Beaver Street, Webberton, WA 6530 | |
| Phone: 08 9921 9300 | |



Extra Light Pipes

STEEL PIPE — Extra Light — AS/NZS1163 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 |
|-------------------------|---------------------------|-------------------------|-------------------------------|-----------------------|----------------------|------------|-----------------------|------------|-------------------------------|
| | | | | | Oiled/Painted/PreGal | | Hot Dipped Galvanised | | |
| | | | | | kg/m | Sling Mass | kg/m | Sling Mass | |
| 20 | 26.9 | 2.0 | 127 | Extra Light | 1.23 | 1.016 | 1.28 | 1.057 | 350 x 306 |
| 25 | 33.7 | 2.0 | 91 | Extra Light | 1.56 | 0.923 | 1.62 | 0.960 | 371 x 326 |
| 32 | 42.2 | 2.0 | 61 | Extra Light | 1.99 | 0.790 | 2.07 | 0.821 | 382 x 336 |
| 40 | 48.3 | 2.3 | 61 | Extra Light | 2.61 | 1.035 | 2.70 | 1.072 | 435 x 383 |
| 50 | 60.3 | 2.3 | 37 | Extra Light | 3.29 | 0.792 | 3.40 | 0.819 | 422 x 374 |
| 65 | 76.1 | 2.3 | 37 | Extra Light | 4.19 | 1.008 | 4.33 | 1.042 | 533 x 472 |
| 80 | 88.9 | 2.6 | 19 | Extra Light | 5.53 | 0.683 | 5.75 | 0.711 | 445 x 397 |
| 90 | 101.6 | 2.6 | 19 | Extra Light | 6.35 | 0.785 | 6.64 | 0.821 | 508 x 454 |
| 100 | 114.3 | 3.2 | 19 | Extra Light | 8.77 | 1.084 | 9.05 | 1.118 | 572 x 510 |
| 125 | 139.7 | 3.0 | 13 | Extra Light | 10.1 | 0.855 | 10.5 | 0.888 | 699 x 382 |
| 150 | 165.1 | 3.0 | 10 | Extra Light | 12.0 | 0.781 | 12.4 | 0.807 | 660 x 451 |

The above pipe items may also be available in an oiled finish or a painted finish. Please check.

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. Extra Light pipes are normally available in NOPC, Oiled Black, Painted, PreGal or Hot Dipped Galvanised Finish.

N.B. Some Extra Light pipes are subject to a mill minimum order quantities. Please check with your local steel outlet..

Unless noted pipes are supplied as 6.500 metres long. A small number of sizes may also be available as 7.200 metres long.

Specification

Calculated in accordance with AS/NZS 1163 - C350 L0.

End Colour Coding

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

Extra Light

Green

Bending

Special formers are available to allow for the supportive bending of these high strength, thinner wall pipe sections.

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. DuraGal Plus® products are Hot Dipped galvanised to AS/NZS 4792 ZB 100/100 and have a minimum average coating of 100 g/m².

N.B. The DuraGal Plus® Range of Extra Light Pipes starts at 25NB. The DuraGal Plus® range detail is displayed under PreGal.

Hot Dipped galvanised pipes are galvanised to AS/NZS 4792 HDG 300 and have a minimum coating mass of 300 g/m²

Fence Fit Pipe Joiners:

"FenceFit" is a swaged pipe joiner that allows for a quick seamless top rail joint to any fence. No screwing or bolting required. Stock sizes available to suit 25NB, 32NB and 40NB pipes. Offered in galvanised finish.

Other sizes and material finishes available - minimum quantities apply. Please check with your local steel outlet.



Light Pipes



STEEL PIPE — Light — AS/NZS1163 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 |
|-------------------------|---------------------------|-------------------------|-------------------------------|-----------------------|----------------------|------------|-----------------------|------------|-------------------------------|
| | | | | | Oiled/Painted/PreGal | | Hot Dipped Galvanised | | |
| | | | | | kg/m | Sling Mass | kg/m | Sling Mass | |
| 20 | 26.9 | 2.3 | 127 | Light | 1.40 | 1.156 | 1.44 | 1.190 | 350 x 306 |
| 25 | 33.7 | 2.6 | 91 | Light | 1.99 | 1.178 | 2.05 | 1.213 | 371 x 326 |
| 32 | 42.2 | 2.6 | 61 | Light | 2.55 | 1.012 | 2.63 | 1.044 | 382 x 336 |
| 40 | 48.3 | 2.9 | 61 | Light | 3.25 | 1.290 | 3.33 | 1.321 | 435 x 383 |
| 50 | 60.3 | 2.9 | 37 | Light | 4.11 | 0.989 | 4.21 | 1.013 | 422 x 374 |
| 65 | 76.1 | 3.2 | 37 | Light | 5.75 | 1.383 | 5.89 | 1.417 | 533 x 472 |
| 80 | 88.9 | 3.2 | 19 | Light | 6.76 | 0.835 | 6.92 | 0.855 | 445 x 397 |
| 90 | 101.6 | 3.2 | 19 | Light | 7.77 | 0.960 | 8.02 | 0.991 | 508 x 454 |
| 100 | 114.3 | 3.6 | 19 | Light | 9.83 | 1.215 | 10.0 | 1.235 | 572 x 510 |
| 125 | 139.7 | 3.5 | 13 | Light | 11.8 | 0.998 | 12.1 | 1.023 | 699 x 382 |
| 150 | 165.1 | 3.5 | 10 | Light | 13.9 | 0.904 | 14.4 | 0.937 | 660 x 451 |

The above pipes 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 pipes are normally available in NOPC, Oiled Black, Painted, PreGal or Hot Dipped Galvanised Finish.

N.B. Some Light pipes are subject to a mill minimum order quantities. Please check with your local steel outlet..

Unless noted pipes are supplied as 6.500 metres long. A small number of sizes may also be available as 7.200 metres long.

Specification

Calculated in accordance with AS/NZS 1163 — C350 L0.

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

End Colour Coding

| | |
|-------|--------|
| Light | Yellow |
|-------|--------|

Bending

Special formers are available to allow for the supportive bending of these high-strength, thinner-wall pipe sections.

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.

DuraGal^{Plus}® products are Hot Dipped Galvanised to AS/NZS 4792 ZB 100/100 and have a minimum average coating of 100 g/m².

DuraGal^{Plus}® range of products start at 25NB. The DuraGal^{Plus}® range detail is displayed under PreGal.

Hot Dipped Galvanised pipes are galvanised to Section 2 of AS/NZS 4792 HDG 300 and have a minimum coating mass of 300 g/m²

Other sizes and material finishes available — minimum quantities apply.



Medium Pipes

STEEL PIPE — Medium — AS1074 & AS/NZS1163 C250L0

| Nominal Size (NB) | Outside Diameter mm | Wall Thickness mm | Quantity per Sling | Common Description | Oiled/Painted/PreGal | | Hot Dipped Galvanised | | 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 supplied as (ETC) 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 ends and may also be subject to any minimum order quantities. | | | | | | | | | |
| 20 | 26.9 | 2.6 | 127 | Medium | 1.56 | 1.290 | 1.60 | 1.321 | 350 x 306 |
| 25 | 33.7 | 3.2 | 91 | Medium | 2.41 | 1.426 | 2.46 | 1.456 | 371 x 326 |
| 32 | 42.4 | 3.2 | 61 | Medium | 3.10 | 1.230 | 3.17 | 1.257 | 382 x 336 |
| 40 | 48.3 | 3.2 | 61 | Medium | 3.57 | 1.416 | 3.64 | 1.444 | 435 x 383 |
| 50 | 60.3 | 3.6 | 37 | Medium | 5.03 | 1.210 | 5.14 | 1.237 | 422 x 374 |
| 65 | 76.1 | 3.6 | 37 | Medium | 6.43 | 1.547 | 6.56 | 1.578 | 533 x 472 |
| 80 | 88.9 | 4.0 | 19 | Medium | 8.37 | 1.034 | 8.53 | 1.054 | 445 x 397 |
| 90 | 101.6 | 4.0 | 19 | Medium | 9.63 | 1.190 | 9.81 | 1.212 | 508 x 454 |
| 100 | 114.3 | 4.5 | 19 | Medium | 12.2 | 1.507 | 12.4 | 1.531 | 572 x 510 |
| 125 | 139.7 | 5.0 | 13 | Medium | 16.6 | 1.403 | 16.9 | 1.429 | 699 x 382 |
| 150 | 165.1 | 5.0 | 10 | Medium | 19.7 | 1.281 | 20.0 | 1.301 | 660 x 451 |

The above Medium pipe sections are no longer offered in an End Finish other than Plain Ends.

Other End Finishes such as Screwed One/Both Ends or Screwed and Socketed may be subject to minimum ordering requirements.

Sizes 25NB to 150NB may be ordered in a RED painted finish for use in the Fire Protection Industry.

Unless noted, pipes are supplied as 6.500 metre lengths

Please note, Special length requirements may be subject to minimum ordering requirements.

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

Tip: The minimum suggested bending radius is 6 times the outside diameter of the pipe based on the centreline of the bend radius.

Manufactured to Australian Standards:

Dual Specifications — AS 1074 and AS/NZS 1163 C250L0

Coatings:

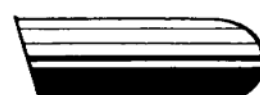
Painted products are coated with an Alkyd modified acrylic primer paint to a target thickness of 12 microns. The average is 8-10 microns.

Hot Dipped Galvanised pipes are galvanised to Section 2 of AS/NZS 4792 HDG 300 and have a minimum coating mass of 300 g/m²



End Colour Coding

| | |
|--------|------|
| Medium | Blue |
|--------|------|



Heavy & Extra Heavy Pipes



STEEL PIPE — Heavy — Extra Heavy — AS1074 & AS/NZS1163 C250L0

| Nominal Size (NB) | Outside Diameter mm | Wall Thickness mm | Quantity per Sling | Common Description | Black/Oiled | | Hot Dipped Galvanised | | Sling Dimension mm x mm |
|-------------------------|---------------------------|-------------------------|-----------------------|-----------------------|-------------|------------|-----------------------|------------|-------------------------------|
| | | | | | Plain Ends | | | | |
| | | | | | kg/m | Sling Mass | kg/m | Sling Mass | |
| 20 | 26.9 | 3.2 | 127 | Heavy | 1.87 | 1.540 | 1.92 | 1.585 | 350 x 306 |
| 25 | 33.7 | 4.0 | 91 | Heavy | 2.94 | 1.740 | 2.99 | 1.769 | 371 x 326 |
| 32 | 42.4 | 4.0 | 61 | Heavy | 3.80 | 1.507 | 3.87 | 1.535 | 382 x 336 |
| 40 | 48.3 | 4.0 | 61 | Heavy | 4.38 | 1.737 | 4.46 | 1.769 | 435 x 383 |
| | | 5.4 | | X-Heavy | 5.71 | 2.264 | n/a | n/a | |
| 50 | 60.3 | 4.5 | 37 | Heavy | 6.19 | 1.489 | 6.30 | 1.516 | 422 x 374 |
| | | 5.4 | | X-Heavy | 7.31 | 1.759 | n/a | n/a | |
| 65 | 76.1 | 4.5 | 37 | Heavy | 7.93 | 1.908 | 8.07 | 1.941 | 533 x 472 |
| | | 5.9 | | X-Heavy | 10.2 | 2.454 | n/a | n/a | |
| 80 | 88.9 | 5.0 | 19 | Heavy | 10.3 | 1.273 | 10.5 | 1.297 | 445 x 397 |
| | | 5.9 | | X-Heavy | 12.1 | 1.495 | n/a | n/a | |
| 90 | 101.6 | 4.0 | 19 | Heavy | 11.9 | 1.470 | 12.1 | 1.495 | 508 x 454 |
| 100 | 114.3 | 4.5 | 19 | Heavy | 14.5 | 1.791 | 14.7 | 1.816 | 572 x 510 |
| 125 | 139.7 | 5.4 | 13 | Heavy | 17.9 | 1.513 | 18.1 | 1.530 | 699 x 382 |
| 150 | 165.1 | 5.4 | 10 | Heavy | 21.3 | 1.385 | 21.6 | 1.405 | 660 x 451 |

The above pipe sections are no longer offered in an End Finish other than Plain Ends.

Unless noted, pipes are supplied as 6.500 metre lengths

Please note, some sections may be subject to minimum ordering requirements.

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

Tip: Heavy pipe may be supplied in a galvanised form but Extra Heavy pipe may only be supplied galvanised on request.

Tip: Extra Heavy pipes are often used as steam pipes and therefore insulated in some way as shown below.

The surface finish is supplied in accordance with all Australian Standards but may show some defects that will be covered by insulation.

Manufactured to Australian Standards:

Dual Specification: AS 1074 and AS/NZS 1163 C250L0.

Coatings:

Hot Dipped Galvanised pipes are galvanised to AS/NZS 4792 HDG 300 and have a minimum coating mass of 300 g/m²

N.B. Extra Heavy pipes may be supplied Hot Dipped Galvanised on request and may have a minimum order quantity.



End Colour Coding

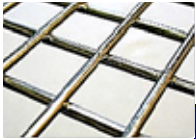
Heavy

Red

Extra Heavy

No Colour





General Purpose Galvanised Meshes

Easy Sheets

| Size of mesh | Product Code | Sheet Size m x m | Mass kg/sheet | Uses |
|------------------|------------------|------------------|---------------|---|
| 25 x 25 x 2.50 | ES - WM - "Size" | 2.0 m x 1.2 m | 7.584 | Weldmesh™ sheets (Easy Sheets) were designed especially for the DIY projects and the handy people in mind. The sheets are of convenient sizes, making it easy to carry in a trailer, utility or station wagon. Do It Yourself projects around the house may include stylish wine racks, a sturdy bird cage or dog barriers. Ideal for use in the garden. |
| 50 x 25 x 3.15 | | 2.0 m x 1.2 m | 7.200 | |
| 50 x 50 x 3.15 | | 2.0 m x 1.2 m | 5.250 | |
| 50 x 50 x 4.00 | | 2.0 m x 1.2 m | 10.000 | |
| 75 x 50 x 4.00 | | 2.0 m x 1.2 m | 8.000 | |
| 100 x 100 x 4.00 | | 2.0 m x 1.2 m | 6.400 | |
| 100 x 100 x 5.00 | | 2.0 m x 1.2 m | 6.600 | |

Some weights may be an approximate only.

* All mesh details courtesy of:-



General Purpose Weldmesh™ Sheets

| Size of mesh | Product Code | Sheet Size m x m | Mass kg/sheet | Long wires mm @ mm | Cross wires mm | Standard Unit |
|-----------------|--------------|------------------|---------------|--------------------|----------------|---------------|
| 25 x 25 x 2.5 | WM/WG2A11 | 3.0 m x 2.4 m | 23 | 2.5 @ 25 | 2.5 @ 25 | Sheet |
| 25 x 25 x 3.15 | WM/WG311 | 3.0 m x 2.4 m | 36 | 3.15 @ 25 | 3.15 @ 25 | Sheet |
| 50 x 25 x 3.15 | WM/WG312 | 3.0 m x 2.4 m | 27 | 3.15 @ 25 | 3.15 @ 50 | Sheet |
| 50 x 50 x 3.15 | WM/WG322 | 3.0 m x 2.4 m | 26 | 3.15 @ 50 | 3.15 @ 50 | Sheet |
| 50 x 50 x 4.0 | WM/WG422 | 3.0 m x 2.4 m | 29 | 4.0 @ 50 | 4.0 @ 50 | Sheet |
| 75 x 50 x 4.0 | WM/WG423 | 3.0 m x 2.4 m | 24 | 4.0 @ 50 | 4.0 @ 75 | Sheet |
| 50 x 50 x 5.0 | WM/WG522 | 3.0 m x 2.4 m | 32 | 5.0 @ 50 | 5.0 @ 50 | Sheet |
| 75 x 50 x 5.0 | WM/WG523 | 3.0 m x 2.4 m | 29 | 5.0 @ 50 | 5.0 @ 75 | Sheet |
| 100 x 100 x 5.0 | WM/WG544 | 3.0 m x 2.4 m | 27 | 5.0 @ 100 | 5.0 @ 100 | Sheet |
| 100 x 100 x 5.6 | WM/WG5A44 | 3.0 m x 2.4 m | 29 | 5.6 @ 100 | 5.6 @ 100 | Sheet |
| 150 x 100 x 5.6 | WM/WG5A46 | 3.0 m x 2.4 m | 25 | 5.6 @ 100 | 5.6 @ 150 | Sheet |

Galvanised sheets for industrial applications. SAP look up code "WM". Some weights may be an approximate only.

Some Mesh sizes may also be available from a supplier in a bright finish. Please check.



Stock Rail — W-Strap — Truck side

Stock Rail — "W" Strap — Truck side

| Size Imperial | Size metric | 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 Imperial | Size metric | 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 Imperial | Size metric | 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 |

Material "W" Strap is normally available as 25/bundle.

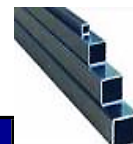


Square Section RHS — Pack Information

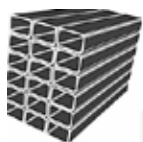
Square Section RHS — AS/NZS 1163 — C450L0, C350L0 & GRD350

| 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 | 0.545 |
| | 2.0 | Yellow | 1.05 | 1.05 | 96 x 6.5 | - | 12 x 8 | 240 x 160 | 0.655 |
| 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 | 6 x 5 | 300 x 250 | 1.530 |
| | 6.0 | White | 7.32 | DuraGal® only | | 25 x 8 | 5 x 5 | 250 x 250 | 1.465 |
| 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 | 7.25 | 7.25 | - | 30 x 8 | 6 x 5 | 390 x 325 | 1.741 |
| | 5.0 | Orange | 8.75 | 8.75 | - | 25 x 8 | 5 x 5 | 325 x 325 | 1.750 |
| | 6.0 | White | 10.1 | DuraGal® only | | 20 x 8 | 5 x 4 | 325 x 260 | 1.620 |
| 75 x 75 | 2.0# | Yellow | 4.50 | 4.50 | - | 36 x 8 | 6 x 6 | 450 x 450 | 1.300 |
| | 2.5 | Pink | 5.56 | 5.56 | - | 30 x 8 | 6 x 5 | 450 x 375 | 1.340 |
| | 3.0 | Blue | 6.60 | 6.60 | - | 30 x 8 | 6 x 5 | 450 x 375 | 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 | 5 x 4 | 375 x 300 | 1.650 |
| | 6.0 | White | 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 | 5 x 4 | 445 x 356 | 0.861 |
| | 3.5 | Grey | 9.07 | 9.07 | - | 20 x 8 | 5 x 4 | 445 x 356 | 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 | 4 x 3 | 356 x 267 | 1.410 |
| NB. The corner radii may vary between manufacturers. | | | | | | # Quantities may vary between manufacturers. | | | |

Square Section RHS — Pack Information



| Square Section RHS — AS/NZS 1163 — C450L0 and 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 12m qty x m | Bundle Pack 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 | 5 x 4 | 450 x 360 | 0.871 |
| | 2.5 | Pink | 6.74 | DuraGal® | 20 x 8 | n/a | 5 x 4 | 450 x 360 | 1.080 |
| 100 x 100 | 2.0 | Yellow | 6.07 | DuraGal® | 20 x 8 | n/a | 5 x 4 | 500 x 400 | 0.972 |
| | 2.5 | Pink | 7.53 | 7.53 | 20 x 8 | n/a | 5 x 4 | 500 x 400 | 1.200 |
| | 3.0 | Blue | 8.96 | 8.96 | 20 x 8 | 16 x 12 | 5 x 4 | 500 x 400 | 1.434 |
| | 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 |
| | 9.0 | Purple | 23.5 | n/a | 9 x 8 | 6 x 12 | 3 x 3 | 300 x 300 | 1.690 |
| 125 x 125 | 4.0 | Green | 14.8 | 14.8 | 12 x 8 | 9 x 12 | 4 x 3 | 500 x 375 | 1.420 |
| | 5.0 | Orange | 18.2 | 18.2 | 12 x 8 | 9 x 12 | 4 x 3 | 500 x 375 | 1.740 |
| | 6.0 | White | 21.4 | n/a | 9 x 8 | 6 x 12 | 3 x 3 | 375 x 375 | 1.540 |
| | 9.0 | Purple | 30.6 | n/a | 8 x 8 | 4 x 12 | 4 x 2 | 500 x 250 | 1.960 |
| 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 | 3 x 2 | 450 x 300 | 1.260 |
| | 9.0 | Purple | 37.7 | n/a | 6 x 8 | 4 x 12 | 3 x 2 | 450 x 300 | 1.810 |
| 200 x 200 | 5.0 | Orange | 29.9 | n/a | 6 x 8 | 4 x 12 | 3 x 2 | 600 x 400 | 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 | | | | | | | | | |
| 100 x 100 | 8.0 | Red | 21.4 | n/a | n/a | 6 x 12 | 3 x 2 | 300 x 200 | 1.540 |
| | 10.0 | Yellow | 25.6 | n/a | n/a | 6 x 12 | 3 x 2 | 300 x 200 | 1.840 |
| 125 x 125 | 6.0 | White | 21.4 | n/a | n/a | 6 x 12 | 3 x 2 | 450 x 300 | 1.541 |
| | 8.0 | Red | 27.7 | n/a | n/a | 4 x 12 | 2 x 2 | 250 x 250 | 1.330 |
| | 10.0 | Yellow | 33.4 | n/a | n/a | 4 x 12 | 2 x 2 | 250 x 250 | 1.600 |
| 150 x 150 | 8.0 | Red | 33.9 | n/a | n/a | 4 x 12 | 2 x 2 | 300 x 300 | 1.630 |
| | 10.0 | Yellow | 41.3 | n/a | n/a | 2 x 12 | 2 x 1 | 150 x 300 | 0.990 |
| 200 x 200 | 10.0 | Yellow | 57.0 | n/a | n/a | 2 x 12 | 2 x 1 | 400 x 200 | 1.370 |
| | 12.5 | Blue | 69.4 | n/a | n/a | 2 x 12 | 2 x 1 | 400 x 200 | 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 | 2 x 1 | 500 x 250 | 1.080 |
| | 8.0 | Red | 59.1 | n/a | n/a | 2 x 12 | 2 x 1 | 500 x 250 | 1.420 |
| | 9.0 | Purple | 65.9 | n/a | n/a | 2 x 12 | 2 x 1 | 500 x 250 | 1.580 |
| | 10.0 | Yellow | 72.7 | n/a | n/a | 2 x 12 | 2 x 1 | 500 x 250 | 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 |
| | 10.0 | Yellow | 88.4 | n/a | n/a | 1 x 12 | 1 x 1 | 300 x 300 | 1.060 |
| | 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 |



Rectangular Section RHS — Pack Information

| Rectangular Section RHS — AS/NZS 1163 — C450, 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 12m qty x m | Bundle Pack 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 | 6 x 10 | 300 x 250 | 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 | 54 x 8 | 54 x 12 | 6 x 9 | 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 |
| | 6.0 | White | 9.67 | 9.67 | 20 x 8 | n/a | 4 x 5 | 300 x 250 | 1.550 |
| 76 x 38 | 1.6 | Purple | n/a | 2.73 | 50 x 8 | n/a | 5 x 10 | 380 x 380 | 1.095 |
| | 2.0 | Yellow | 3.37 | n/a | 56 x 8 | n/a | 7 x 8 | 532 x 304 | 1.510 |
| | 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 | 0.931 |
| | 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 | 9.06 | n/a | 12 x 8 | n/a | 3 x 4 | 306 x 304 | 0.870 |
| | 5.0 | Orange | 12.5 | n/a | 9 x 8 | n/a | 3 x 3 | 306 x 228 | 0.901 |
| | 6.0 | White | 14.7 | n/a | 6 x 8 | n/a | 3 x 2 | 306 x 152 | 0.704 |
| 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 | 24 x 8 | 20 x 12 | 4 x 6 | 500 x 450 | 1.450 |
| | 3.0 | Blue | 8.96 | 8.96 | 20 x 8 | 15 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 | 12 x 8 | n/a | 3 x 4 | 381 x 204 | 0.870 |
| | 5.0 | Orange | 12.5 | 12.5 | 8 x 8 | n/a | 2 x 4 | 254 x 204 | 0.801 |
| | 6.0 | White | 14.7 | 14.7 | 8 x 8 | n/a | 2 x 4 | 254 x 204 | 0.939 |

Rectangular Section RHS — Pack Information



| Rectangular Section RHS — AS/NZS 1163 — C450L0 and 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 12m qty x m | Bundle Pack 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 | 21 x 12 | 3 x 7 | 450 x 400 | 1.450 |
| | 3.0 | Blue | 8.96 | 8.96 | 21 x 8 | 15 x 12 | 3 x 7 | 450 x 350 | 1.490 |
| | 4.0 | Green | 11.6 | 11.6 | 15 x 8 | 15 x 12 | 3 x 5 | 450 x 250 | 1.400 |
| | 5.0 | Orange | 14.2 | 14.2 | 15 x 8 | 9 x 12 | 3 x 5 | 450 x 250 | 1.710 |
| | 6.0 | Cream | 16.7 | DuraGal® | 15 x 8 | 9 x 12 | 3 x 5 | 450 x 250 | 2.010 |
| 150 x 100 | 3.0 | Blue | 11.3 | 11.3 | 12 x 8 | 12 x 8 | 3 x 4 | 450 x 400 | 1.086 |
| | 4.0 | Green | 14.8 | 14.8 | 12 x 8 | 9 x 12 | 3 x 4 | 450 x 400 | 1.420 |
| | 5.0 | Orange | 18.2 | 18.2 | 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 |
| | 9.0 | Purple | 30.6 | n/a | 6 x 8 | 4 x 12 | 2 x 3 | 300 x 300 | 1.470 |
| 152 x 76 | 5.0 | Green | 16.5 | n/a | 6 x 8 | 4 x 12 | 2 x 3 | 304 x 228 | 0.792 |
| | 6.0 | Orange | 19.4 | n/a | 6 x 8 | 6 x 12 | 2 x 3 | 304 x 228 | 0.930 |
| 200 x 100 | 4.0 | Green | 17.9 | n/a | 8 x 8 | 6 x 12 | 2 x 4 | 400 x 400 | 1.150 |
| | 5.0 | Orange | 22.1 | n/a | 8 x 8 | 6 x 12 | 2 x 4 | 400 x 400 | 1.410 |
| | 6.0 | Cream | 26.2 | n/a | 8 x 8 | 4 x 12 | 2 x 4 | 400 x 400 | 1.670 |
| 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 | 1.140 |
| | 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 | | | | | | | | | |
| 150 x 100 | 8.0 | Red | 27.7 | n/a | n/a | 4 x 12 | 2 x 2 | 300 x 200 | 1.330 |
| | 10.0 | Yellow | 33.4 | n/a | n/a | 4 x 12 | 2 x 2 | 300 x 200 | 1.600 |
| 200 x 100 | 8.0 | Red | 33.9 | n/a | n/a | 4 x 12 | 2 x 2 | 400 x 300 | 1.630 |
| | 9.0 | Purple | 37.7 | n/a | n/a | 4 x 12 | 2 x 2 | 400 x 300 | 1.810 |
| 250 x 150 | 10.0 | Yellow | 57.0 | n/a | n/a | 2 x 12 | 1 x 2 | 250 x 300 | 1.370 |
| | 12.5 | Blue | 69.4 | n/a | n/a | 2 x 12 | 1 x 2 | 250 x 300 | 1.670 |
| | 16.0 | Grey | 85.5 | n/a | n/a | 1 x 12 | 1 x 1 | 250 x 150 | 1.030 |
| 300 x 200 | 6.0 | Cream | 45.0 | n/a | n/a | 2 x 12 | 1 x 2 | 600 x 200 | 1.080 |
| | 8.0 | Red | 59.1 | n/a | n/a | 2 x 12 | 1 x 2 | 600 x 200 | 1.420 |
| | 9.0 | Purple | 65.9 | n/a | n/a | 2 x 12 | 1 x 2 | 600 x 200 | 1.582 |
| | 10.0 | Yellow | 72.7 | n/a | n/a | 2 x 12 | 1 x 2 | 600 x 200 | 1.740 |
| | 12.5 | Blue | 89.0 | n/a | n/a | 1 x 12 | 1 x 1 | 300 x 200 | 1.070 |
| | 16.0 | Grey | 111 | n/a | n/a | 1 x 12 | 1 x 1 | 300 x 200 | 1.330 |
| 350 x 250 | 8.0 | Red | 71.6 | n/a | n/a | 2 x 12 | 1 x 2 | 700 x 250 | 1.720 |
| | 10.0 | Yellow | 88.4 | n/a | n/a | 1 x 12 | 1 x 1 | 350 x 250 | 1.060 |
| | 12.5 | Blue | 109 | n/a | n/a | 1 x 12 | 1 x 1 | 350 x 250 | 1.300 |
| | 16.0 | Grey | 136 | n/a | n/a | 1 x 12 | 1 x 1 | 350 x 250 | 1.630 |
| 400 x 200 | 8.0 | Red | 71.6 | n/a | n/a | 2 x 12 | 1 x 2 | 400 x 400 | 1.720 |
| | 10.0 | Yellow | 88.4 | n/a | n/a | 1 x 12 | 1 x 1 | 400 x 200 | 1.060 |
| | 12.5 | Blue | 109 | n/a | n/a | 1 x 12 | 1 x 1 | 400 x 200 | 1.300 |
| | 16.0 | Grey | 136 | n/a | n/a | 1 x 12 | 1 x 1 | 400 x 200 | 1.630 |
| 400 x 300 | 8.0 | Red | 84.2 | n/a | n/a | 1 x 12 | 1 x 1 | 400 x 300 | 1.010 |
| | 10.0 | Yellow | 104 | n/a | n/a | 1 x 12 | 1 x 1 | 400 x 300 | 1.250 |
| | 12.5 | Blue | 128 | n/a | n/a | 1 x 12 | 1 x 1 | 400 x 300 | 1.540 |
| | 16.0 | Grey | 161 | n/a | n/a | 1 x 12 | 1 x 1 | 400 x 300 | 1.930 |



Yard Rail/Stock Rail/Flat Sided Post

Yard Rail/Stock Rail — AS/NZS 1163 — C350L0

| Dimension d x b mm x mm | Thickness t mm | Mass kg/m & Finish | | Lengths/ Bundle qty x m | Dimension d x b mm x mm | Thickness t mm | Finish | | Lengths/ Bundle qty x m |
|-------------------------------|----------------------|--------------------|--------|-------------------------------|-------------------------------|----------------------|--------|--------|-------------------------------|
| | | Ptd | PreGal | | | | Ptd | PreGal | |
| 52 x 25 | 1.6 | 1.61 | 1.61 | 48 x 6.1 | 85 x 48 | 3.2 | 6.08 | 6.08 | 28 x 6.1 |
| | 2.0 | 1.99 | 1.99 | 48 x 6.1 | | 2.0 | 3.65 | 3.65 | 21 x 6.1 |
| 53 x 35 | 1.6 | 1.84 | 1.84 | 48 x 6.1 | 97 x 42 | 2.5 | 4.53 | 4.53 | 21 x 6.1 |
| | 1.6 | 1.84 | 1.84 | 48 x 6.1 | | 2.0 | 3.85 | 3.85 | 21 x 6.1 |
| 59 x 30 | 1.6 | 1.84 | 1.84 | 48 x 6.1 | 108 x 38 | 2.0 | 3.85 | 3.85 | 21 x 6.1 |
| | 2.0 | 2.28 | 2.28 | 48 x 6.1 | | 2.0 | 4.27 | 4.27 | 21 x 6.1 |
| 66 x 44 | 1.6 | 2.32 | 2.32 | 25 x 6.1 | 115 x 42 | 2.5 | 5.33 | 5.33 | 21 x 6.1 |
| | 2.0 | 3.22 | 3.22 | 25 x 6.1 | | 2.0 | n/a | 4.53 | 18 x 6.0 |
| 75 x 40 | 1.6 | 2.46 | 2.46 | 20 x 6.1 | 124 x 42 | 2.0 | 4.50 | 4.50 | 21 x 6.1 |
| | 2.0 | 2.99 | 2.99 | 20 x 6.1 | | | | | |
| | 2.5 | 3.60 | 3.60 | 32 x 6.1 | | | | | |

• Non-standard sizes, surface finish & lengths available, subject to inquiry. • Minimum order quantities [MOQs] apply.

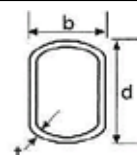
Rail Joiners, Clips & Caps



Quick Fit Joiners & Rail Clips. (115 Rail Only)

| Suits 115 x 42 SAP Code | Section | Thickness and Length. | Finish | Quantity per Box. Mass - kg. |
|-------------------------------|---------|-----------------------------|-----------|------------------------------------|
| 196970 | Caps | 1.6 mm | GalvaBond | n/a |
| 191938 | Joiners | 75 mm | GalvaBond | 20 = 6.6kg. |
| 200075 | Clips | 220mm | PreGal | n/a |

Flat Sided (Post)



Flat Sided Round (Post) — AS/NZS 1163 — C350L0

| Dimension d x b mm x mm | Thickness t mm | Finish | | Lengths/ Bundle qty x m |
|-------------------------------|----------------------|--------|--------|-------------------------------|
| | | Ptd | PreGal | |
| 62 x 50 | 2.0 | 2.88 | 2.88 | 25 x 6.1 |
| 80 x 61 | 2.0 | 3.65 | 3.65 | 25 x 6.1 |

• Minimum order quantities [MOQs] apply.

Avoiding White Rust on Zinc Coated (PreGal) 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, the rust 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.

Important Information for Powder Coaters

Bubbling of the coating may occur when trying to powder coat galvanised 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 galvanisers and Inline galvanisers, 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 SHS/RHS Sections



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

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

Please note, SHS/RHS are not precision tubes.

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

Comments: How to best use this chart

To use this chart, first take the outer (Female) SHS/RHS size you require. Then subtract $2 \times t + 1$ mm away from this size. From the chart above, select an inner size (Male) SHS/RHS that comes close to your requirements, and the desired clearance. Remember that all SHS/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 SHS/RHS could be listed due to page size limitations. Another factor that must be considered is the corner radii as these may differ somewhat between each tubular manufacturer.



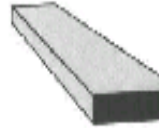
Flat Mild Steel

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 * | 0.25 | 4000 | 964 = 1t |
| These flats supplied as 4.0 metres | | | |
| 13 x 3 * | 0.31 | 3226 | 798 = 1t |
| x 5 * | 0.53 | 1887 | 478 = 1t |
| x 6 * | 0.56 | 1786 | 398 = 1t |
| Referred to as Small Flats. May have rounded edges. | | | |
| 16 x 3 * | 0.36 | 2778 | 647 = 1t |
| x 5 * | 0.60 | 1667 | 388 = 1t |
| Sizes 16x8 and above, supplied in 6m lengths. | | | |
| 16 x 8 | 1.03 | 971 | 160 = 0.989t |
| 20 x 3 # | 0.48 | 2083 | 346 = 1.002t |
| x 5 | 0.80 | 1250 | 208 = 1.004t |
| x 6 | 0.96 | 1042 | 173 = 1.002t |
| x 10 | 1.57 | 637 | 208 = 2.008t |
| 25 x 3 # | 0.60 | 1667 | 277 = 1.003t |
| x 5 | 0.981 | 1019 | 332 = 2.004t |
| x 6 | 1.18 | 847 | 278 = 2.013t |
| x 8 | 1.57 | 637 | 208 = 2.008t |
| x 10 | 1.96 | 510 | 166 = 2.004t |
| x 12 | 2.36 | 424 | 138 = 1.999t |
| 32 x 3 # | 0.77 | 1299 | 219 = 1.015t |
| x 5 | 1.26 | 794 | 265 = 2.047t |
| x 6 | 1.51 | 662 | 215 = 1.993t |
| x 8 | 2.01 | 498 | 162 = 2.002t |
| x 10 | 2.51 | 398 | 129 = 1.993t |
| x 12 | 3.01 | 332 | 108 = 2.002t |
| 40 x 3 # | 0.97 | 1031 | 173 = 1.002t |
| x 5 | 1.57 | 637 | 208 = 2.008t |
| x 6 | 1.88 | 532 | 173 = 2.005t |
| x 8 | 2.51 | 398 | 129 = 1.993t |
| x 10 | 3.14 | 318 | 103 = 1.989t |
| x 12 | 3.93 | 254 | 87 = 2.016t |
| x 16 | 5.02 | 199 | 66 = 2.039t |
| x 20 | 6.28 | 159 | 52 = 2.008t |
| 50 x 3 # | 1.21 | 826 | 280 = 2.027t |
| x 5 | 1.96 | 510 | 166 = 2.004t |
| x 6 | 2.36 | 424 | 139 = 2.013t |
| x 8 | 3.14 | 318 | 104 = 2.008t |
| x 10 | 3.93 | 254 | 83 = 2.004t |
| x 12 | 4.71 | 212 | 69 = 1.999t |
| x 16 | 6.28 | 159 | 52 = 2.008t |
| x 20 | 7.85 | 127 | 42 = 2.028t |
| x 25 | 9.81 | 102 | 34 = 2.052t |
| * Round Edge Flats. | | # Items may be imported. | |

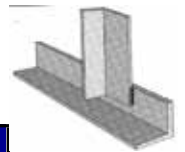
| Size mm x mm | Mass kg/m | Metres/tonne m/t | Approx Lens per bundle |
|---------------------------|--------------|---------------------|---------------------------|
| 65 x 3 # | 1.57 | 637 | 213 = 2.005t |
| x 5 | 2.55 | 392 | 127 = 1.993t |
| x 6 | 3.06 | 327 | 107 = 2.015t |
| x 8 | 4.08 | 245 | 80 = 2.008t |
| x 10 | 5.10 | 196 | 65 = 2.040t |
| x 12 | 6.12 | 163 | 53 = 1.996t |
| x 16 | 8.16 | 123 | 41 = 2.059t |
| x 20 | 10.20 | 98 | 35 = 2.197t |
| 75 x 5 | 2.94 | 340 | 110 = 1.991t |
| x 6 | 3.53 | 283 | 92 = 1.999t |
| x 8 | 4.71 | 212 | 71 = 2.057t |
| x 10 | 5.89 | 170 | 55 = 1.991t |
| x 12 | 7.07 | 141 | 46 = 1.999t |
| x 16 | 9.42 | 106 | 34 = 1.970t |
| x 20 | 11.80 | 85 | 28 = 2.028t |
| x 25 | 14.70 | 68 | 23 = 2.029t |
| 90 x 6 | 4.24 | 236 | 78 = 2.033t |
| x 8 | 5.65 | 177 | 59 = 2.051t |
| x 10 | 7.07 | 141 | 46 = 1.999t |
| x 12 | 8.48 | 118 | 38 = 1.981t |
| 100 x 5 | 3.930 | 254 | 85 = 2.052t |
| x 6 | 4.710 | 212 | 71 = 2.057t |
| x 8 | 6.280 | 159 | 52 = 2.008t |
| x 10 | 7.850 | 127 | 43 = 2.076t |
| x 12 | 9.420 | 106 | 36 = 2.086t |
| x 16 | 12.600 | 79 | 26 = 2.008t |
| x 20 | 15.700 | 64 | 22 = 2.124t |
| x 25 | 19.600 | 51 | 17 = 2.052t |
| 110 x 6 | 5.18 | 193 | 64 = 2.034t |
| x 8 | 6.91 | 145 | 48 = 2.039t |
| x 10 | 8.64 | 116 | 39 = 2.071t |
| x 12SLTF | 10.40 | 96 | 34 = 2.167t |
| 130 x 5 SLTF | 5.10 | 196 | 65 = 2.040t |
| x 6 SLTF | 6.12 | 163 | 55 = 2.071t |
| x 8 | 8.16 | 123 | 41 = 2.059t |
| x 10 | 10.20 | 98 | 33 = 2.071t |
| x 12 | 12.20 | 82 | 28 = 2.109t |
| x 16 | 16.30 | 61 | 20 = 2.008t |
| x 20 | 20.40 | 49 | 16 = 2.008t |
| x 25 | 25.50 | 39 | 13 = 2.040t |
| HRSSP 6th Ed. August 2012 | | SLTF = Slit Flats. | |

Flat Mild Steel

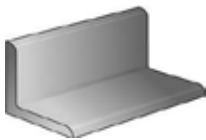


| Square Edge Flats — AS/NZS 3679.1-300 | | | | | | | | | | |
|---------------------------------------|----------|--------------|--------------------|---------------------------|--|-----------------------------------|-----------|--------------|------------------|---------------------------|
| Size mm x mm | | Mass kg/m | Metres/ tonne | Approx Lens per bundle | | Size mm x mm | | Mass kg/m | Metres/ tonne | Approx Lens per bundle |
| Flats are supplied in 6m lengths. | | | | | | Flats are supplied in 6m lengths. | | | | |
| 150 | x 5 SLTF | 5.89 | 170 | 56 = 2.028t | | 200 | x 12 | 18.8 | 53 | 13 = 2.008t |
| | x 6 SLTF | 7.07 | 141 | 46 = 1.999t | | | x 16 | 25.1 | 40 | 14 = 2.163t |
| | x 8 | 9.42 | 106 | 36 = 2.086t | | | x 20 | 31.4 | 32 | 11 = 2.124t |
| | x 10 | 11.8 | 85 | 29 = 2.100t | | | x 25 | 39.3 | 25 | 8 = 1.931t |
| | x 12 | 14.1 | 71 | 23 = 1.999t | | 250 | x 6 SLTF | 11.8 | 85 | 28 = 2.028t |
| | x 16 | 18.8 | 53 | 16 = 2.202t | | | x 8 SLTF | 15.7 | 64 | 23 = 2.221t |
| | x 20 | 23.6 | 42 | 14 = 2.028 | | | x 10 SLTF | 19.6 | 51 | 18 = 2.172t |
| | x 25 | 29.4 | 34 | 11 = 1.991t | | | x 12 SLTF | 23.6 | 42 | 16 = 2.317t |
| | x 50 | 58.9 | 17 | 5 = 1.810t | | | x 16 # | 32.18 | 31 | 11 = 2.124t |
| 180 | x 6 SLTF | 8.48 | 118 | 40 = 2.086t | x 20 # | 40.28 | 25 | 8 = 1.931t | | |
| | x 10 | 14.1 | 71 | 24 = 2.086t | x 25 # | 50.32 | 20 | 7 = 2.112t | | |
| | x 12 | 17.0 | 59 | 20 = 2.086t | | | | | | |
| | x 16 # | 23.18 | 43 | 11 = 1.529t | 300 | x 6 SLTF | 14.1 | 71 | 24 = 2.086t | |
| | x 20 # | 28.3 | 35 | 12 = 2.086t | | x 8 SLTF | 18.8 | 53 | 19 = 2.202t | |
| | x 25 # | 36.21 | 28 | 9 = 1.955t | | x 10 SLTF | 23.6 | 42 | 16 = 2.317t | |
| | | | | | | x 12 SLTF | 28.3 | 35 | 12 = 2.086t | |
| 200 | x 6 SLTF | 9.42 | 106 | 35 = 2.086t | | x 16 # | 38.64 | 26 | 10 = 2.317t | |
| | x 8 SLTF | 12.6 | 79 | 26 = 2.008t | x 20 # | 48.27 | 21 | 8 = 2.317t | | |
| | x 10 | 15.7 | 64 | 21 = 2.086t | x 25 # | 60.37 | 17 | 7 = 2.535t | | |
| HRSSP 6th Ed. August 2012 | | | SLTF - Slit flats. | | # Wide flats are flame cut from plate & meet AS/NZ 3678-250. | | | | | |

Unequal Angles



| Unequal Angles — AS/NZS 3679.1-300 | | | | | | | | | | | |
|------------------------------------|---|---------|------|--------------|-------------|---|---|---------|------|--------------|-------------|
| Size | | | Mass | Metres/tonne | Approx Lens | Size | | | Mass | Metres/tonne | Approx Lens |
| mm | x | mm x mm | kg/m | m/t | per bundle | mm | x | mm x mm | kg/m | m/t | per bundle |
| Merchant Angles @ 9.000m | | | | | | Structural Angles @ 12.000m | | | | | |
| 65 | x | 50 x 5 | 4.02 | 249 | 56 = 2.026t | 125 | x | 75 x 6 | 9.16 | 109 | 24 = 1.979t |
| | x | 50 x 6 | 5.16 | 194 | 49 = 2.276t | | x | 75 x 8 | 11.8 | 85 | 19 = 2.018t |
| | x | 50 x 8 | 6.59 | 152 | 34 = 2.017t | | x | 75 x10 | 14.2 | 70 | 16 = 2.045t |
| 75 | x | 50 x 5 | 4.40 | 227 | 51 = 2.020t | | x | 75 x12 | 17.7 | 56 | 13 = 2.071t |
| | x | 50 x 6 | 5.66 | 177 | 34 = 1.732t | NB: All angle bundling details are approximate. | | | | | |
| | x | 50 x 8 | 7.23 | 138 | 31 = 2.018t | 150 | x | 90 x 8 | 14.3 | 70 | 27 = 4.633t |
| 100 | x | 75 x 6 | 7.98 | 125 | 28 = 2.006t | | x | 90 x10 | 17.3 | 58 | 24 = 4.980t |
| | x | 75 x 8 | 10.3 | 97 | 22 = 2.040t | | x | 90 x12 | 21.6 | 46 | 18 = 4.670t |
| | x | 75 x10 | 12.4 | 81 | 18 = 2.009t | | x | 90 x16 | 27.9 | 36 | 14 = 4.690t |
| | | | | | | 150 | x | 100x10 | 18.0 | 56 | 22 = 4.750t |
| | | | | | | | x | 100x12 | 22.5 | 44 | 18 = 4.860t |



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 | 893 | 247 = 2.075t |
| x 25 x 5 | 1.65 | 606 | 166 = 2.054t |
| x 25 x 6 | 2.08 | 481 | 127 = 1.981t |
| 30 x 30 x 3 | 1.35 | 741 | 196 = 1.985t |
| x 30 x 5 | 2.01 | 498 | 136 = 2.050t |
| x 30 x 6 | 2.56 | 391 | 110 = 2.112t |
| 40 x 40 x 3 | 1.83 | 546 | 153 = 2.100t |
| x 40 x 5 | 2.73 | 366 | 99 = 2.027t |
| x 40 x 6 | 3.50 | 286 | 76 = 1.995t |
| Merchant Angles @ 9.0m. | | | |
| 45 x 45 x 3 | 2.06 | 485 | 117 = 2.169t |
| x 45 x 5 | 3.10 | 323 | 81 = 1.990t |
| x 45 x 6 | 3.97 | 252 | 56 = 2.001t |
| 50 x 50 x 3 | 2.31 | 433 | 99 = 2.058t |
| x 50 x 5 | 3.48 | 287 | 65 = 2.040t |
| x 50 x 6 | 4.46 | 224 | 49 = 1.967t |
| x 50 x 8 | 5.68 | 176 | 39 = 1.994t |
| 55 x 55 x 5 | 3.84 | 260 | 63 = 2.177t |
| x 55 x 6 | 4.93 | 203 | 49 = 2.174t |
| 65 x 65 x 5 | 4.56 | 219 | 48 = 1.971t |
| x 65 x 6 | 5.87 | 170 | 40 = 2.114t |
| x 65 x 8 | 7.51 | 133 | 32 = 2.164t |
| x 65 x 10 | 9.02 | 111 | 24 = 1.950t |

| 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 | 190 | 42 = 1.992t |
| x 75 x 6 | 6.81 | 147 | 33 = 2.022t |
| x 75 x 8 | 8.73 | 115 | 26 = 2.042t |
| x 75 x 10 | 10.5 | 95 | 21 = 1.985t |
| 90 x 90 x 6 | 8.22 | 122 | 27 = 1.998t |
| x 90 x 8 | 10.6 | 94 | 21 = 2.004t |
| x 90 x 10 | 12.7 | 79 | 20 = 2.286t |
| 100 x 100 x 6 | 9.16 | 109 | 24 = 1.979t |
| x 100 x 8 | 11.8 | 85 | 19 = 2.018t |
| x 100 x 10 | 14.2 | 70 | 20 = 2.286t |
| x 100 x 12 | 17.7 | 56 | 15 = 2.390t |

| Size mm x mm x mm | Mass kg/m | Metres/ tonne | Approx Lens per bundle |
|----------------------------|--------------|------------------|---------------------------|
| Structural Angles @ 12.0m. | | | |
| 125 x 125 x 8 | 14.9 | 67 | 26 = 4.650t |
| x 125 x 10 | 18.0 | 56 | 20 = 4.750t |
| x 125 x 12 | 22.5 | 44 | 18 = 4.860t |
| x 125 x 16 | 29.1 | 34 | 14 = 4.890t |
| 150 x 150 x 10 | 21.9 | 46 | 18 = 4.730t |
| x 150 x 12 | 27.3 | 37 | 15 = 4.910t |
| x 150 x 16 | 35.4 | 28 | 11 = 4.670t |
| x 150 x 19 | 42.1 | 24 | 9 = 4.550t |
| 200 x 200 x 13 | 40.0 | 25 | 10 = 4.800t |
| x 200 x 16 | 48.7 | 21 | 8 = 4.680t |
| x 200 x 18 | 54.4 | 18 | 7 = 4.570t |
| x 200 x 20 | 60.1 | 17 | 6 = 4.330t |
| x 200 x 26 | 76.8 | 13 | 5 = 4.610t |

HRSSP 6th Ed. August 2012



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 | 0.79 | 1266 | 415 = 2.004t |
| 12 | 1.13 | 885 | 291 = 2.023t |
| 16 | 2.01 | 498 | 163 = 2.015t |
| 19 | 2.91 | 344 | 116 = 2.022t |
| 20 | 3.14 | 318 | 104 = 2.008t |
| 25 | 4.91 | 204 | 66 = 1.991t |
| 40 | 12.5 | 80 | 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 | 12.5 | 80 | 1.0mm |
| AS1442 — U1040/U1045 (Billets) | | | |
| 40 | 12.5 | 80 | 1.0mm |
| 45 | 16.29 | 61 | 5.5mm |
| 50 | 20.12 | 50 | 6.5mm |
| 63 | 31.94 | 31 | 8.0mm |
| 75 | 45.26 | 22 | 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 | 4292 | 664 = 1.000t |
| 8 | 0.394 | 2538 | 423 = 1.000t |
| 10 | 0.616 | 1623 | 530 = 2.009t |
| 12 | 0.887 | 1127 | 367 = 2.004 |
| 14 | 1.21 | 826 | 271 = 2.014 |
| 16 | 1.58 | 633 | 206 = 1.999t |
| 18 | 1.99 | 503 | 168 = 2.064t |
| 20 | 2.46 | 407 | 132 = 2.002t |
| 22 | 2.98 | 336 | 110 = 2.019t |
| 24 | 3.55 | 282 | 93 = 2.031t |
| 27 | 4.49 | 223 | 73 = 2.018t |
| 30 | 5.55 | 180 | 60 = 2.047t |
| 33 | 6.71 | 149 | 50 = 2.064t |
| 36 | 7.99 | 125 | 42 = 2.064t |
| 39 | 9.38 | 107 | 36 = 2.076t |
| 42 | 10.90 | 92 | 30 = 2.006t |
| 45 | 12.50 | 80 | 26 = 1.996t |
| 48 | 14.20 | 70 | 23 = 2.009 |
| 50 | 15.40 | 65 | 22 = 2.085t |
| 56 | 19.30 | 52 | 17 = 2.021t |
| 60 | 22.20 | 45 | 15 = 2.047t |
| 65 | 26.00 | 38 | 14 = 2.243t |
| 75 | 34.70 | 29 | 10 = 2.133 |
| 80 | 40.44 | 25 | 10 = 2.427t |
| 90 | 49.90 | 20 | 7 = 2.150t |

Typically supplied in 6.000 metre lengths.

HRSSP 6th Ed. August 2012

6mm and 8mm rounds supplied as HDLC Wires - AS1302

| Large Rounds — 1020 / L1045 | | |
|-----------------------------|--------------|---------------------|
| Diameter mm | Mass kg/m | Metres/tonne m/t |
| 100 | 63.191 | 15.8 |
| 110 | 75.383 | 13.3 |
| 120 | 89.712 | 11.1 |
| 130 | 105.287 | 9.5 |
| 140 | 122.108 | 8.2 |
| 150 | 140.175 | 7.1 |
| 160 | 159.488 | 6.3 |
| 170 | 180.047 | 5.6 |
| 180 | 201.852 | 5.0 |
| 190 | 224.903 | 4.4 |
| 200 | 249.200 | 4.0 |
| 210 | 274.743 | 3.6 |
| 220 | 301.532 | 3.3 |
| 230 | 329.567 | 3.0 |
| 240 | 358.848 | 2.8 |
| 250 | 389.375 | 2.6 |
| 260 | 421.148 | 2.4 |
| 280 | 488.432 | 2.0 |
| 300 | 560.700 | 1.8 |
| 310 | 598.703 | 1.7 |
| 320 | 637.952 | 1.6 |
| 340 | 720.188 | 1.4 |
| 360 | 807.408 | 1.2 |
| 380 | 899.612 | 1.1 |
| 400 | 996.800 | 1.0 |

Large rounds may not be stocked.

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 | Suggested Lengths - m |
| 10 | 10.1 | 66.67 | 66.67 | 34.13 | 18.26 | 6.35 | 6.00 m |
| 15 | 15.2 | 79.37 | 79.37 | 42.86 | 22.22 | 8.33 | 9.00 m |
| 22 | 22.3 | 93.66 | 93.66 | 50.80 | 26.99 | 10.72 | 12.19 m |
| 30 | 30.1 | 107.95 | 107.95 | 60.33 | 30.95 | 12.3 | 12.19 m |
| 41 | 40.8 | 136.5 | 127.0 | 63.5 | 40.5 | 13.1 | 12.19 m or 13.72 m |
| 50 | 50.6 | 154.0 | 127.0 | 70.0 | 45.0 | 15.0 | 12.19 m or 13.72 m |
| 53 | 53.0 | 157.1 | 146.0 | 70.0 | 46.0 | 14.7 | 12.19 m or 13.72 m |
| 60 | 60.6 | 170.0 | 146.0 | 70.0 | 49.0 | 16.5 | 12.19 m or 13.72 m |
| 68 | 67.5 | 185.7 | 152.4 | 74.6 | 49.2 | 17.5 | 12.50 m |

Rails are not normally a stocked item — Mill 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 |

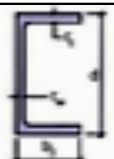
* An imported section - longer lead times may apply.



Taper Flanged Channel

| Taper Flanged Channel — SS400 (Imported) | | | | | | | | |
|--|-------------------------|--------------------------|--------------------------------------|--|---------------------------------------|----------------------|---------|------------------------------------|
| 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 - longer 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

HRSSP 6th Ed. August 2012

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 |
| | | 22.2 | 179 | 90 | 10.0 | 6.0 | 8.9 | 45.05 | 16 = 4.262t |
| 200 UB | | 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 |
| | | 29.8 | 207 | 134 | 9.6 | 6.3 | 8.9 | 33.56 | 12 = 4.290t |
| 250 UB | | 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 |
| | | 37.3 | 256 | 146 | 10.9 | 6.4 | 8.9 | 26.81 | 10 = 4.476t |
| 310 UB | | 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 |
| | | 46.2 | 307 | 166 | 11.8 | 6.7 | 11.4 | 21.65 | 8 = 4.436t |
| 360 UB | | 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 |
| | | 56.7 | 359 | 172 | 13.0 | 8.0 | 11.4 | 17.64 | 7 = 4.763t |
| 410 UB | | 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 |

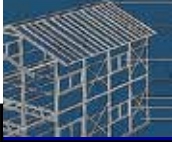
Universal Columns

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

HRSSP 6th Ed. August 2012

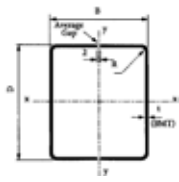


| | Universal Columns — AS/NZS3679.1-300 (Light & Heavy) | | | | | | | | |
|---------------------------|--|-------------------------|------------------------|-----------------------|---------------------------|------------------------|----------------------|---------|----------------------------------|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



Compound Plain Channels

Compound Plain Channels (toe to toe — back to back)



D = Depth of section.
B = Breadth of section.
R = Corner radius of section.
t = Thickness of section.



D = Depth of section.
B = Breadth of section.
R = Corner radius of section.
t = Thickness of section.

Plain Channels (toe to toe)

| Section | Nominal Dimensions | | | | Section | Mass | |
|-----------|--------------------|-----|-----|-----|-----------------|-------|--------|
| | D | B | R | t | Area | Galv. | Black. |
| | mm | | | | mm ² | kg/m | |
| 2/TC05116 | 51 | 33 | 1.6 | 1.6 | 240 | 1.93 | 1.88 |
| 2/TC05130 | 51 | 53 | 3.2 | 3.0 | 540 | 4.29 | 4.24 |
| 2/TC05725 | 57 | 55 | 2.5 | 2.5 | 500 | 3.99 | 3.93 |
| 2/TC06425 | 64 | 47 | 2.5 | 2.5 | 500 | 3.99 | 3.93 |
| 2/TC07630 | 76 | 77 | 3.2 | 3.0 | 840 | 6.58 | 6.50 |
| 2/TC08330 | 83 | 71 | 3.2 | 3.0 | 840 | 6.58 | 6.50 |
| 2/TC08930 | 89 | 65 | 3.2 | 3.0 | 840 | 6.58 | 6.50 |
| 2/TC09530 | 95 | 73 | 3.2 | 3.0 | 930 | 7.30 | 7.21 |
| 2/TC10330 | 103 | 65 | 3.2 | 3.0 | 930 | 7.30 | 7.21 |
| 2/TC10230 | 102 | 113 | 3.2 | 3.0 | 1200 | 9.54 | 9.42 |
| 2/TC12730 | 127 | 101 | 3.2 | 3.0 | 1320 | 10.25 | 10.13 |
| 2/TC15230 | 152 | 103 | 3.2 | 3.0 | 1470 | 11.44 | 11.31 |

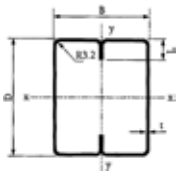
Plain Channels (back to back)

| Section | Nominal Dimensions | | | | Section Area | Mass | |
|-----------|--------------------|-----|-----|-----|-----------------|-------|--------|
| | D | B | R | t | | Galv. | Black. |
| | mm | | | | mm² | kg/m | |
| 2/TC05116 | 51 | 33 | 1.6 | 1.6 | 240 | 1.93 | 1.88 |
| 2/TC05130 | 51 | 53 | 3.2 | 3.0 | 540 | 4.29 | 4.24 |
| 2/TC05725 | 57 | 55 | 2.5 | 2.5 | 500 | 3.99 | 3.93 |
| 2/TC06425 | 64 | 47 | 2.5 | 2.5 | 500 | 3.99 | 3.93 |
| 2/TC07630 | 76 | 77 | 3.2 | 3.0 | 840 | 6.58 | 6.50 |
| 2/TC08330 | 83 | 71 | 3.2 | 3.0 | 840 | 6.58 | 6.50 |
| 2/TC08930 | 89 | 65 | 3.2 | 3.0 | 840 | 6.58 | 6.50 |
| 2/TC09530 | 95 | 73 | 3.2 | 3.0 | 930 | 7.30 | 7.21 |
| 2/TC10330 | 103 | 65 | 3.2 | 3.0 | 930 | 7.30 | 7.21 |
| 2/TC10230 | 102 | 113 | 3.2 | 3.0 | 1200 | 9.54 | 9.42 |
| 2/TC12730 | 127 | 101 | 3.2 | 3.0 | 1320 | 10.25 | 10.13 |
| 2/TC15230 | 152 | 103 | 3.2 | 3.0 | 1470 | 11.44 | 11.31 |

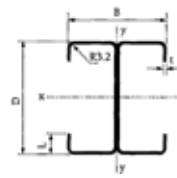
Please see Page 23 and Page 24 for full details on COLD ROLLED® Angles, Channels, Lipped Channels and Purlins for structural applications..

Compound Lipped Channels

Compound Lipped Channels (toe to toe — back to back)



D = Depth of section.
B = Breadth of section.
L = Lip length of section.
t = Thickness of section.



D = Depth of section.
B = Breadth of section.
L = Lip length of section.
t = Thickness of section.

Lipped Channels (toe to toe)

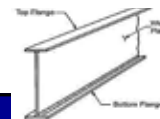
| Section | Nominal Dimensions | | | | Section | Mass | |
|-----------|--------------------|----|----|-----|---------|-------|--------|
| | D | B | L | t | Area | Galv. | Black. |
| | mm | | | | mm² | kg/m | |
| 2/TL05116 | 51 | 35 | 9 | 1.6 | 416 | 3.29 | 3.22 |
| 2/TL06425 | 64 | 38 | 10 | 2.5 | 726 | 5.74 | 5.65 |
| 2/TL07625 | 76 | 44 | 11 | 2.5 | 876 | 6.70 | 6.60 |
| 2/TL10225 | 102 | 51 | 14 | 2.5 | 1100 | 8.57 | 8.44 |
| 2/TL10230 | 102 | 51 | 16 | 3.0 | 1320 | 10.10 | 9.99 |
| 2/TC12725 | 127 | 51 | 14 | 2.5 | 1224 | 9.48 | 9.34 |
| 2/TL12730 | 127 | 51 | 16 | 3.0 | 1470 | 11.20 | 11.07 |
| 2/TL15230 | 152 | 64 | 16 | 3.0 | 1800 | 13.78 | 13.61 |
| 2/TL20330 | 203 | 76 | 18 | 3.0 | 2280 | 17.40 | 17.19 |
| 2/TL25430 | 254 | 89 | 23 | 3.0 | 2760 | 21.41 | 21.15 |

Lipped Channels (back to back)

| Section | Nominal Dimensions | | | | Section | Mass | |
|-----------|--------------------|----|----|-----|---------|-------|--------|
| | D | B | L | t | Area | Galv. | Black. |
| | mm | | | | mm² | kg/m | |
| 2/TL05116 | 51 | 35 | 9 | 1.6 | 416 | 3.29 | 3.22 |
| 2/TL06425 | 64 | 38 | 10 | 2.5 | 726 | 5.74 | 5.65 |
| 2/TL07625 | 76 | 44 | 11 | 2.5 | 876 | 6.70 | 6.60 |
| 2/TL10225 | 102 | 51 | 14 | 2.5 | 1100 | 8.57 | 8.44 |
| 2/TL10230 | 102 | 51 | 16 | 3.0 | 1320 | 10.10 | 9.99 |
| 2/TC12725 | 127 | 51 | 14 | 2.5 | 1224 | 9.48 | 9.34 |
| 2/TL12730 | 127 | 51 | 16 | 3.0 | 1470 | 11.20 | 11.07 |
| 2/TL15230 | 152 | 64 | 16 | 3.0 | 1800 | 13.78 | 13.61 |
| 2/TL20330 | 203 | 76 | 18 | 3.0 | 2280 | 17.40 | 17.19 |
| 2/TL25430 | 254 | 89 | 23 | 3.0 | 2760 | 21.41 | 21.15 |

A typical metal building system consists of primary rigid frames, secondary members, cladding and bracing. There are a number of shapes available as structural members including open sections and built up sections. I.e 'C' sections, double channels as above. Structural shapes can be used in buildings as eave struts, purlins, girts, studs, headers, floor joists, braces and other building components.

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 | 718 | 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 | |
| | 282 | 924 | 400 | 32 | 12 | 860 | 3.55 | |
| 1000 | 215 | 1000 | 300 | 20 | 16 | 960 | 4.65 | 13.5m |
| | 258 | 1010 | 350 | 25 | 16 | 960 | 3.88 | |
| | 296 | 1016 | 400 | 28 | 16 | 960 | 3.38 | |
| | 322 | 1024 | 400 | 32 | 16 | 960 | 3.11 | |
| 1200 | 249 | 1170 | 275 | 25 | 16 | 1120 | 4.02 | 15.0m |
| | 278 | 1170 | 350 | 25 | 16 | 1120 | 3.60 | |
| | 317 | 1176 | 400 | 28 | 16 | 1120 | 3.15 | |
| | 342 | 1184 | 400 | 32 | 16 | 1120 | 2.92 | |
| | 392 | 1184 | 500 | 32 | 16 | 1120 | 2.55 | 16.5m |
| | 423 | 1192 | 500 | 36 | 16 | 1120 | 2.36 | |
| | 455 | 1200 | 500 | 40 | 16 | 1120 | 2.20 | |
| | | | | | | | | |

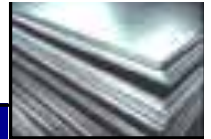
Welded Columns



HRSSP 6th Ed. August 2012

| 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 | |
| | 270 | 414 | 400 | 32 | 25 | 350 | 3.70 | |
| | 303 | 422 | 400 | 36 | 28 | 350 | 3.30 | 12.0m |
| | 328 | 430 | 400 | 40 | 28 | 350 | 3.05 | |
| | 361 | 430 | 400 | 40 | 40 | 350 | 2.77 | |
| | | | | | | | | |
| 500 | 228 | 490 | 500 | 20 | 20 | 450 | 4.39 | 13.5m |
| | 267 | 500 | 500 | 25 | 20 | 450 | 3.75 | |
| | 290 | 506 | 500 | 28 | 20 | 450 | 3.45 | |
| | 340 | 514 | 500 | 32 | 25 | 450 | 2.94 | |
| | 383 | 472 | 500 | 36 | 32 | 400 | 2.61 | 15.0m |
| | 414 | 480 | 500 | 40 | 32 | 400 | 2.42 | |
| | 440 | 480 | 500 | 40 | 40 | 400 | 2.27 | |
| | | | | | | | | |

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 | 23.55 | 28.26 | 35.33 | 42.39 | - | - |
| 4 | 31.40 | 37.68 | 47.10 | 56.52 | - | - |
| 5 | 39.25 | 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 | 78.50 | 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 | 157.00 | 188.40 | - | 282.60 | 376.80 | 471.00 |
| 25 | 196.25 | 235.50 | - | 353.25 | 471.00 | 588.75 |
| 28 | 219.80 | - | - | - | 527.52 | - |
| 32 | 251.20 | - | - | 452.16 | 602.88 | 753.60 |
| 36 | 282.60 | - | - | - | 678.24 | - |
| 40 | 314.00 | - | - | 565.20 | 753.60 | - |
| 45 | 353.25 | - | - | - | 847.80 | - |
| 50 | 392.50 | - | - | 706.50 | 942.00 | - |
| 55 | 431.75 | Some plates are shown as | | - | 1036.20 | - |
| 60 | 471.00 | 1200 or 1500mm wide. | | 847.80 | 1130.40 | - |
| 70 | 549.50 | They can be supplied as cut to | | 989.10 | 1318.80 | - |
| 80 | 628.00 | length from coil or sheared to a | | 1130.40 | 1507.20 | - |
| 90 | 706.50 | particular serviceable length. | | - | 1695.60 | - |
| 100 | 785.00 | - | - | 1413.00 | 1884.00 | - |
| 110 | 863.50 | - | - | 1554.30 | 2072.40 | - |
| 120 | 942.00 | May not be available in 6.0m lengths. | | 1695.60 | 2260.80 | - |
| 140 | 1099.00 | - | - | 1978.20 | 2637.60 | - |
| 150 | 1177.50 | - | - | 2119.50 | 2826.00 | - |
| Some Plates (8mm to 25mm) can be supplied up to 3200mm in width. | | | | | | |
| To calculate the weight of plate, multiply the plate thickness by 7.850 = kg/m ² | | | | | | |

Special length and width of plates can normally be cut from a larger plates or may be rolled to size. Minimum mill tonnages will apply.

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

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

Coil Plates

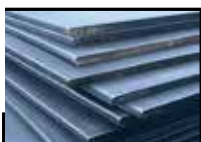


| Coil Plate — AS/NZS 1594-HA250 | | | | |
|--------------------------------|--|---|---|--|
| Thickness mm | Mass/m ² kg/m ² | Coil widths per thickness - please check all details prior to ordering. | | |
| | | 910 - 1550mm | 1765 - 1800mm | Advantages of coil plate |
| 3 | 23.5502 | Typically 1200mm wide coils are stored. Also 1500mm may be stored. | Typically 1800mm wide coil stored. | Some locations store coils of steel which may be cut to a specified length. An example is a plate cut to 6.90m x 1.800mx 3mm. Other sizes may be cut also and minimum quantities do apply. Please check with us. |
| 4 | 31.40 | | These coils are supplied as mill widths. | |
| 5 | 39.2498 | | n/a | |
| 6 | 47.10 | These coils supplied as mill widths. | n/a | |
| 8 | 62.80 | | n/a | |
| 10 | 78.5005 | | n/a | |
| 12 | 94.20 | | | |



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 | 39.25 | 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 | 78.50 | 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 | 157.00 | 376.80 | n/a | 486.70 | 9.6m | 9.6m x 3.10m |
| 25 | 196.25 | 471.00 | n/a | n/a | 9.6m | n/a |
| 32 | 251.20 | 602.88 | n/a | n/a | 9.6m | n/a |
| 40 | 314.00 | 753.60 | n/a | n/a | 7.6m | n/a |
| 50 | 392.50 | 942.00 | n/a | n/a | 7.6m | n/a |
| 60 | 471.00 | 1130.40 | n/a | n/a | 7.6m | n/a |
| 70 | 549.50 | 1318.80 | n/a | n/a | 6.0m | n/a |
| 80 | 628.00 | 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 | 39.25 | 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 | 78.50 | 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 | 157.00 | n/a | n/a | 486.70 | n/a | 9.6m |
| 25 | 196.25 | n/a | n/a | 608.38 | n/a | 9.6m |
| 32 | 251.20 | n/a | n/a | 778.72 | n/a | 9.6m |
| 40 | 314.00 | 753.60 | n/a | n/a | 9.6m | n/a |
| 50 | 392.50 | 942.00 | n/a | n/a | 9.6m | n/a |
| 60 | 471.00 | 1130.40 | n/a | n/a | 6.0m | n/a |
| 70 | 549.50 | 1318.80 | n/a | n/a | 6.0m | n/a |
| 80 | 628.00 | 1507.20 | n/a | n/a | 5.2m | n/a |
| 90 | 706.50 | 1695.60 | n/a | n/a | 5.2m | n/a |
| 100 | 785.00 | 1884.00 | n/a | n/a | 5.2m | n/a |

To calculate the weight of plate, multiply the plate thickness by 7.850 = kg/m²

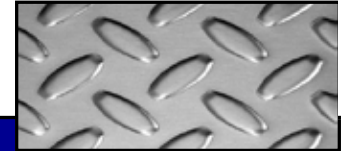
Coil Floor Plates



| 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* | 18.54 | 22.24 | - | - | * 2.1 mm Floorplate is 1210mm in width. |
| 3.0 | 25.55 | 30.66 | - | - | 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. |
| 5.0 | 41.25 | 49.50 | 61.88 | - | |
| 6.0 | 49.10 | 58.92 | 73.65 | 88.38 | |
| 8.0 | 64.80 | - | 97.20 | - | |

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 | |
| | | 1800 | |
| 8.0 | 64.80 | 116.64 | |
| 10.0 | 80.50 | 144.90 | |
| 12.0 | 96.20 | 173.16 | |
| | | | Standard plate lengths |
| | | | 6.0m |
| | | | 6.0m |
| | | | 6.0m |

Lozenge height = 1.5mm.

Quenched & Tempered Plates

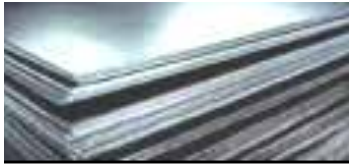


| Quenched & Tempered Plates | | | | |
|----------------------------|---------------------------|----------------------------------|------------------------------------|------------------------------------|
| Plate Thickness mm | Mass kg/m ² | Bisalloy® 80 Typical — 830MPa | Bisalloy® 400 Typical — 1320MPa | Bisalloy® 500 Typical — 1640MPa |
| 5 | 39.25 | 1525 x 8000 | 1525 x 8000 | - |
| 5 | 39.25 | - | 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 | 78.50 | 2485 x 8000 | 2485 x 8000 | - |
| 10 | 78.50 | 3100 x 8000 | 3100 x 8000 | - |
| 12 | 94.20 | 2485 x 8000 | 2485 x 8000 | 2485 x 8000 |
| 16 | 125.60 | 2485 x 8000 | 2485 / 3100 x 8000 | 2485 x 8000 |
| 20 | 157.00 | 2485 x 8000 | 2485 / 3100 x 8000 | 2485 x 8000 |
| 25 | 196.25 | 2485 x 8000 | 2485 x 8000 | 2485 x 8000 |
| 32 | 251.20 | 2485 x 8000 | 2485 x 8000 | 2485 x 8000 |
| 40 | 314.00 | 2485 x 8000 | 2485 x 8000 | 2485 x 8000 |
| 50 | 392.50 | 2485 x 8000 | 2485 x 8000 | - |
| 60 | 471.00 | 2485 x 8000 | 2485 x 8000 | - |

Armour Plates










| Armour Plate | | | |
|-----------------------|---------------------------|--|--|
| Plate Thickness mm | Mass kg/m ² | This plate is sometimes known as K700.Manganese Wear Resistant Steel. The SAP lookup code is ARM. | |
| 6 | 39.25 | 1000 x 2000 | Other thicknesses may be available from overseas on request. |



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 USA 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 (i.e. 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 inquiry.



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 | Minimum Quantities will apply | | 1.6 | 900 | 1800 | 49.15 |
| Longitudinal tensile. Yield strength, MPa Tensile strength, MPa Elong on 80mm, % ≤ 3.0 mm > 3.0 mm | 250 min 350 min 20 min 24 min | | | 1.6 | 900 | 2400 | 36.86 |
| | | | | 1.6 | 900 | 3000 | 29.49 |
| | | | | 1.6 | 1200 | 1800 | 36.86 |
| | | | | 1.6 | 1200 | 2400 | 27.65 |
| | | | | 1.6 | 1200 | 3000 | 22.12 |
| | | | | 1.6 | 1200 | 3600 | 18.43 |
| 180 degree transverse bend (L axis) ≤ 5.0 mm > 5.0 mm | 1 t 2 t | | | 2.0 | 900 | 1800 | 39.32 |
| | | | | 2.0 | 900 | 2400 | 29.49 |
| | | | | 2.0 | 900 | 3000 | 23.59 |
| | | | | 2.0 | 1200 | 1800 | 29.49 |
| | | | | 2.0 | 1200 | 2400 | 22.12 |
| | | | | 2.0 | 1200 | 3000 | 17.69 |
|  | Chemical Properties | Guaranteed Maximum % | Typical % | 2.0 | 1200 | 3600 | 14.74 |
| | Carbon (C) | 0.20 | 0.09 - 0.17 | 2.5 | 1200 | 1800 | 23.59 |
| | Silicon (Si) | 0.35 | 0.005 - 0.015 | 2.5 | 1200 | 2400 | 17.69 |
| | Manganese (Mn) | 1.20 | 0.5 - 0.75 | 2.5 | 1200 | 3000 | 14.15 |
| | Phosphorus (P) | 0.04 | 0.005 - 0.025 | 3.0 | 900 | 1800 | 26.21 |
| | Sulphur (S) | 0.03 | 0.005 - 0.015 | 3.0 | 900 | 2400 | 19.66 |
| | Aluminium (Al) | 0.10 | 0.015 - 0.060 | 3.0 | 1200 | 1800 | 19.66 |
| | Nitrogen (N) | - | - | 3.0 | 1200 | 2400 | 14.74 |
| | Titanium (Ti) | 0.04 | - | 3.0 | 1200 | 3000 | 11.80 |
| | Niobium (Nb) | 0.01 | - | 3.0 | 1200 | 3600 | 9.83 |
| | (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® Steel Sheet

BRIGHTFORM® steel Sheet — Pickled & Oiled

| BRIGHTFORM® Steel 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 Yield strength, MPa Tensile strength, MPa | - | | 1.6 | 1510 | 2400 | 21.97 |
| | | | 1.6 | 1510 | 3000 | 17.58 |
| | | | 2.0 | 910 | 1800 | 38.89 |
| | | | 2.0 | 910 | 2400 | 29.16 |
| | | | 2.0 | 1210 | 2400 | 21.93 |
| | | | 2.0 | 1510 | 2400 | 17.58 |
| Elong on 80mm, % 180 degree transverse bend (L axis) | 32 min 0 t | | 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® steel sheet, but the product is best used within three months.

HR 'Lyten' Sheet — HW350

| 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 | 11.80 |

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

Cold Rolled Sheet



| 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. | | | |

COLORBOND® Steel 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. | | | |

| Surfmist® colour only. | | | |
|------------------------|-------------|--------------|---------------------------|
| Thickness mm | Width mm | Length mm | Sheet Count per tonne. |
| 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

| 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 |

COLORBOND® HGA Sheet

| 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 known as Appliance White. | | | |

ZINCALUME® Steel 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 | 61.90 |
| 0.80 | 1200 | 2400 | 53.83 |


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



ZINCANNEAL® Steel Sheet

ZINCANNEAL® sheet — AS 1397 G2 ZF100

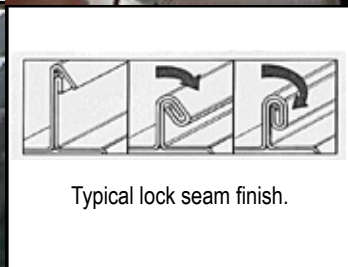
| Thickness mm | Width mm | Length mm | Sheet Count per tonne | Typical uses: Washing machines, acoustic ceiling tiles, door frames, switchboards, non-exposed automotive panels. | | | | | | | | | | | |
|-----------------|--|----------------------|--------------------------|---|--|-------------------------|------------------------------|--|-------------|-------------------------------|------|----------------|------|-------------|------|
| 0.55 | 915 | 1800 | 136.50 | <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 | <table><tr><th>Mechanical Properties</th><th>Minimum</th></tr><tr><td>Elongation on 80mm (≥ 0.60mm) %</td><td>27</td></tr><tr><td>180° transverse bend (L axis)</td><td>0t</td></tr></table> | | Mechanical Properties | Minimum | Elongation on 80mm (≥ 0.60mm) % | 27 | 180° transverse bend (L axis) | 0t | | | | |
| | Mechanical Properties | Minimum | | | | | | | | | | | | | |
| | Elongation on 80mm (≥ 0.60mm) % | 27 | | | | | | | | | | | | | |
| | 180° transverse bend (L axis) | 0t | | | | | | | | | | | | | |
| | 0.75 | 1220 | 2400 | 56.75 | | | | | | | | | | | |
| 0.75 | 1220 | 3000 | 45.40 | | | | | | | | | | | | |
| 0.75 | 1220 | 3600 | 37.83 | | | | | | | | | | | | |
| 0.95 | 1200 | 1800 | 61.01 | <table><tr><th>Chemical Properties</th><th>Guaranteed Maximum %</th></tr><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></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><tr><th>Tolerances</th></tr><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></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><tr><td colspan="2">1 tonne coils as below.</td></tr><tr><th>Thickness mm</th><th>Width mm</th></tr><tr><td>0.55</td><td>915</td></tr></table> <p>A typical use of ZINCANNEAL® sheet.</p> | | 1 tonne coils as below. | | Thickness mm | Width mm | 0.55 | 915 | | | | |
| | 1 tonne coils as below. | | | | | | | | | | | | | | |
| | Thickness mm | Width mm | | | | | | | | | | | | | |
| | 0.55 | 915 | | | | | | | | | | | | | |
| | 900 | 2400 | 37.65 | | | | | | | | | | | | |
| | 1200 | 1800 | 37.65 | | | | | | | | | | | | |
| | 1200 | 2400 | 28.23 | | | | | | | | | | | | |
| | 1200 | 3000 | 22.59 | | | | | | | | | | | | |
| 1200 | 3600 | 18.82 | | | | | | | | | | | | | |
| 1500 | 2400 | 22.58 | | | | | | | | | | | | | |
| 1500 | 3000 | 18.07 | | | | | | | | | | | | | |
| 1.95 | 1200 | 1800 | 29.99 | <p>Switchboard Cabinets</p>  | | | | | | | | | | | |
| | 1200 | 2400 | 22.49 | | | | | | | | | | | | |
| | 1200 | 3000 | 17.99 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

GALVABOND® Steel Sheet



| GALVABOND® steel 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 |
| GALVANBOND® steel G2 sheet 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 |
| | | 0.55 | 915 | 1800 |
| | | 0.55 | 915 | 2400 |
| | | 0.55 | 1200 | 1800 |
| | | 0.55 | 1200 | 2400 |
| | | 0.55 | 1200 | 3000 |
| | | 0.55 | 1200 | 3600 |
| | | 0.55 | 1500 | 2400 |
| | | 0.55 | 1500 | 3000 |
| | | 0.75 | 915 | 1800 |
| | | 0.75 | 915 | 2400 |
| | | 0.75 | 1200 | 1800 |
| | | 0.75 | 1200 | 2400 |
| | | 0.75 | 1200 | 3000 |
| | | 0.75 | 1200 | 3600 |
| | | 0.75 | 1500 | 2400 |
| | | 0.75 | 1500 | 3000 |
| | | 0.95 | 900 | 1800 |
| | | 0.95 | 900 | 2400 |
| | | 0.95 | 1200 | 1800 |
| | | 0.95 | 1200 | 2400 |
| | | 0.95 | 1200 | 3000 |
| | | 0.95 | 1200 | 3600 |
| | | 0.95 | 1500 | 2400 |
| | | 0.95 | 1500 | 3000 |
| | | 1.15 | 915 | 1800 |
| | | 1.15 | 915 | 2400 |
| | | 1.15 | 1200 | 1800 |
| | | 1.15 | 1200 | 2400 |
| | | 1.15 | 1200 | 3000 |
| | | 1.15 | 1200 | 3600 |
| | | 1.15 | 1500 | 2400 |
| | | 1.15 | 1500 | 3000 |
| | | 1.55 | 900 | 1800 |
| | | 1.55 | 900 | 2400 |
| | | 1.55 | 1200 | 1800 |
| | | 1.55 | 1200 | 2400 |
| | | 1.55 | 1200 | 3000 |
| | | 1.55 | 1200 | 3600 |
| | | 1.55 | 1500 | 2400 |
| | | 1.55 | 1500 | 3000 |
| | | 1.95 | 1200 | 1800 |
| | | 1.95 | 1200 | 2400 |
| | | 1.95 | 1200 | 3000 |
| | | 1.95 | 1200 | 3600 |
| | | 2.40 | 1220 | 2400 |
| | | 2.40 | 1220 | 3000 |
| | | 2.90 | 1220 | 2400 |
| | | 2.90 | 1220 | 3000 |
| | | 2.90 | 1220 | 3000 |
| | | 2.90 | 1220 | 3600 |
| | | 2.90 | 1220 | 3600 |


| 1 tonne coils as below | |
|------------------------|-------------|
| Thickness mm | Width mm |
| 0.40 | 1220 |
| 0.55 | 1200 |
| 0.55 | 1500 |
| 0.75 | 1200 |
| 0.95 | 1200 |
| 1.15 | 1200 |





Aluminium Sheet, Plate & Treadplate

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

| 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 |
| A general purpose alloy, suitable for a range of sheet metal applications. Corrosion resistance — Excellent Anodising — Very Good Forming — Excellent Machining — Poor Welding (Argon) — Excellent A typical size range is listed | 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 |
| | 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 |
| Grade 5052 H32 Sheet | 1200 x 3600 | 1.60 | 18.732 | n/a | n/a | n/a |
| Used in marine applications, sheet metal work and appliances. Corrosion resistance — Excellent Forming — Good Welding (Argon) — Excellent | 1200 x 2400 | 2.00 | 15.610 | 15.61 | n/a | 17.122 |
| | 1200 x 3000 | 2.00 | 19.512 | n/a | n/a | n/a |
| | 1200 x 3600 | 2.00 | 24.000 | n/a | n/a | n/a |
| | 1500 x 3600 | 2.00 | 30.002 | n/a | n/a | n/a |
| | 1200 x 2400 | 2.50 | 19.512 | 19.512 | n/a | 21.845 |
| Grade 5083 H321 Plate | 1200 x 6000 | 2.50 | n/a | 50.004 | n/a | n/a |
| Used in high-strength structural applications, sheet and plate for welded marine applications and road transport vehicles. Corrosion resistance — Excellent Forming — Good Welding (Argon) — Excellent | 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 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 |
| | 1200 x 2400 | 5.00 | 39.024 | n/a | 40.00032 | 40.738 |
| | 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 |
| Grade 5052 0 (5 Bar) Plate | 1830 x 6100 | 5.00 | n/a | n/a | 155.0429 | n/a |
| Aluminium Treadplates | 2200 x 10000 | 5.00 | n/a | n/a | 305.558 | n/a |
| A wide variety of diverse applications. Step treads, shop floors, marine foot traffic, decorative bar fronts. Corrosion resistance — Excellent Workability — Good Welding (Argon) — Excellent | 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 | 200.0 | 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/lm |
| 12 x 3 | 4000 | 0.392 |
| 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 |
| Items are not stocked at all locations. | | |
| Aluminium Flat Bar 6061 T6 | | |
| Size | Length | Mass/lm |
| 40 x 6 | 6000 | 3.984 |
| 50 x 6 | 6000 | 4.998 |

| Aluminium Angles 6060 T5 | | |
|--|--------|---------|
| Size | Length | Mass/lm |
| 20x 12x1.6 | 6500 | 0.871 |
| 20x 20x1.6 | 6500 | 1.105 |
| 20x 20x3.0 | 6500 | 2.002 |
| 25x 20x1.6 | 6500 | 1.248 |
| 25x 25x1.6 | 6500 | 1.391 |
| 25x 25x3.0 | 6500 | 2.477 |
| 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 |
| 76.2x25.4x3.18 | 6500 | 5.642 |
| The full listing of products not shown. | | |
| Aluminium Struct Angles 6061 T6 | | |
| Size | Length | Mass/lm |
| 50.8x50.8x6.0(RE) | 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 |
| RE = Radius Edge Material. | | |
| Some sections may not be available at all locations. | | |
| Aluminium Flat Bar 6061 T6 | | |
| Size | Length | Mass/lm |
| 80 x 6 | 6 | 7.998 |
| 100 x 6 | 6 | 9.996 |

| Aluminium Rounds 6060 T5 | | |
|------------------------------|--------|---------|
| Size | Length | Mass/lm |
| 10.0 | 6000 | 1.302 |
| 12.0 | 6000 | 1.884 |
| 14.0 | 6000 | 2.502 |
| 16.0 | 6000 | 3.348 |
| 20.0 | 6000 | 5.655 |
| 25.4 | 4000 | 5.628 |
| 33.0 | 6000 | 14.250 |
| Aluminium Square 6060 T5 | | |
| Size | Length | Mass/lm |
| 12.0 | 4000 | 1.596 |
| 25.0 | 4000 | 6.944 |
| 40.0 | 4000 | 17.712 |
| Aluminium Channels 6060 T5 | | |
| Size | Length | Mass/lm |
| 25 x 25x3.0 | 6500 | 3.725 |
| 32x 25x3.0 | 6500 | 4.102 |
| 40x 20x3.0 | 6500 | 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/lm |
| 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 | 3000 | 60.180 |
| Alum Bull Bar Channels | | |
| Size | Length | Mass/lm |
| 125x 75x6 | 7000 | 28.090 |
| 125x100x70x6 | 7000 | 31.108 |
| 146.5x80x5.5 | 6000 | 24.350 |
| 177.8x76.2x6.35 | 6500 | 48.330 |

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

Corrosion resistance — Very good. Anodising — Fair. Forming — Fair. Machining — Fair. Welding (Argon) — Very good.

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

Corrosion resistance — Very good. Anodising — Fair. Forming — Fair. Machining — Fair. Welding (Argon) — Very good.

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 | 6.130 |
| 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 |
| 16x1.22 (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 |
| 38.1x3.25 (6063-1) | 6000 | 5.844 |
| 40x3.0 (6060-5) | 6500 | 6.292 |
| 44.5x3.2 (6063-591) | 6000 | 6.918 |
| 48.4x4 (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 |
| 38x16x1.6 (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 |
| 152.4x3.25 (6060-5) | 6100 | 24.672 |
| 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 |
| 114.3x6.35 (6082-6) | 6500 | 37.934 |




Special Steels — Engineering Steels

| High Tensile Steels | |
|-------------------------------|---|
| Grades: | Description |
| 4140 | High strength and good toughness. Can be flame/ind. hardened or nitrided. Good machineability. |
| 4340 | High strength and good toughness. Can be flame/ind. hardened or nitrided. Good machineability. |
| EN26 | High strength plus and good toughness. Fatigue resistant. Can be flame hardened or nitrided. Good machineability. |
| Bright Steels | |
| Grades: | Description |
| M1020 | Low strength and high ductility. Good machineability. Can be carburised. |
| M1030 | Low / medium strength and good ductility. Good machineability and weldability. Low hardenability. |
| M1045 | Medium strength and good ductility. Good machineability. Care needed when welding. Can be flame/ind. hardened. |
| S1214 | Low strength and moderate ductility. Excellent machineability. Care needed when welding. Can be carburised. |
| Carbon Steels | |
| Grades: | Description |
| K1022 | Low strength and high ductility. Reasonable machineability. Can be carburised. |
| K1045 | Medium strength and good ductility. Good machineability. Care needed when welding. |
| Stainless Steels | |
| Austenitic Grades: | Description. |
| 303 | Free machining grade with excellent machineability. Corrosion resistant. Welding not recommended. |
| 304 | General purpose grade with improved machineability. Corrosion higher than 303, lower than 316. Readily welded. |
| 316/316L | Marine grade with improved machineability. Corrosion resistance higher than 321 or 303. Excellent weldability. |
| Stainless Steels | |
| Martensitic Grades: | Description |
| 410 | Corrosion resistance similar to 420, lower than 431. Extreme care needed when welding. |
| 416 | Free machining grade with low corrosion resistance. Excellent machineability. Welding not recommended. |
| 420 | Medium carbon grade. Corrosion resistance similar to 410. Good machineability. Welding not recommended. |
| 431 | Low nickel grade. Corrosion resistance similar to 302. Good machineability. Welding not recommended. |
| Precipitation Hardened Grade: | |
| Grades: | Description |
| 630PH | Martensitic age hardening grade. Corrosion resistance similar to 304. Reasonable machineability. Good weldability. |
| Duplex Grade: | |
| Grades: | Description |
| 2205 | Ferritic/Austenitic grade with high yield strength. Corrosion resistance good. Reasonable machineability. Good weldability. |
| Spring Steel Bars | |
| Grades: | Description. |
| XK9261S | Rounds in a range 13mm-36mm |
| XK9258S | RE Flats in a range 45x6-130x20. |
| XK9258S | Square Edge flats 32x5-130x10. |

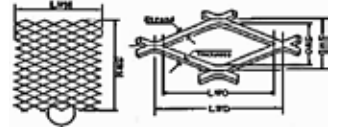
| High Tensile Steels | |
|---------------------------------|---|
| Strength & Uses | |
| 4140 | U.T.S 850 - 1000 Mpa. Medium to highly stressed parts. |
| 4340 | U.T.S 930-1080 Mpa. Highly stressed parts. |
| EN26 | U.T.S 1000-1150 Mpa. Severely stressed parts. |
| Bright Steels | |
| Strength & Uses | |
| M1020 | U.T.S. 410-790 Mpa. Lightly stressed parts. |
| M1030 | U.T.S. 500-850 Mpa. Light/medium stressed parts. |
| M1045 | U.T.S. 600-950 Mpa Medium stressed parts. |
| S1214 | U.T.S. 370-760 Mpa Very lightly stressed parts. |
| Carbon Steels | |
| Strength & Uses | |
| K1022 | U.T.S. 360-560 Mpa. Lightly stressed parts. |
| K1045 | U.T.S. 570-700 Mpa Medium stressed parts. |
| Stainless Steels | |
| Uses | |
| 303 | Where extensive machining is involved. |
| 304 | Domestic uses. Dairy applications. |
| 316/316L | Marine applications. Chemical industries. |
| Stainless Steels | |
| Strength & Uses | |
| 410 | U.T.S 700-850 Mpa. Medium tensile parts. |
| 416 | U.T.S. 550-700 Mpa. Where extensive machining involved. |
| 420 | U.T.S. 700-930 Mpa. Pump and valve parts. |
| 431 | U.T.S. 850-1000 Mpa. High tensile parts. |
| Strength & Uses | |
| 630PH | U.T.S. 930-1100 Mpa. High strength and corrosion resistance requirements. |
| Strength & Uses | |
| 2205 | U.T.S. 570 Mpa. High strength uses. High corrosion resistance uses. |
| Spring Steel Bars | |
| Uses: Mainly agricultural usage | |
| XK9261S | Coil Spring and agricultural tynes. |
| XK9258S | Leaf Springs or chopping blades |
| XK9258S | Chopping blades and wear strips. |

Euro Norm' — Hollow Bars 20MnV6



| | | | Euro Norm (EN 10294-1:2005) | | | | | | | | | | | |  | | | | |
|-------|---|------|-----------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|
| OD mm | ID mm | kg/m | | OD mm | ID mm | kg/m | | OD mm | ID mm | kg/m | | OD mm | ID mm | kg/m | | OD mm | ID 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 | | | 45 | | | 46.8 | | | 65 | | | 85.5 | 75 | 133.2 | 110 | 150.0 | |
| 40 | 30 | 5.9 | | 100 | 85 | | 21.8 | 140 | | 60 | 89.2 | | 170 | 70 | 137.4 | 190 | 105 | 156.6 | |
| | 25 | 7.5 | | | 80 | | 27.1 | | | 55 | 93.8 | | | 155 | 42.5 | | 100 | 162.8 | |
| | 20 | 8.8 | | | 75 | | 31.5 | | | 125 | 33.6 | | | 145 | 51.4 | | 95 | 168.6 | |
| 45 | 35 | 6.7 | | | 70 | | 36.0 | | | 120 | 39.9 | | | 140 | 60.8 | | 175 | 175 | 48.3 |
| | 30 | 8.7 | | | 65 | | 40.2 | | | 115 | 47.3 | | | 140 | 68.5 | | | 170 | 57.9 |
| | 25 | 9.8 | | | 60 | | 44.0 | | | 110 | 54.4 | | | 135 | 77.2 | | | 165 | 68.9 |
| | 40 | 7.6 | 55 | 47.5 | 105 | 61.2 | 130 | 85.5 | 160 | 77.8 | | | | | | | | | |
| 50 | 35 | 9.9 | 105 | 50 | 50.7 | 150 | 100 | 67.5 | 170 | 125 | 93.5 | 200 | 155 | 87.4 | | | | | |
| | 30 | 11.8 | | 45 | 53.2 | | 95 | 73.6 | | 120 | 101.2 | | 150 | 97.1 | | | | | |
| 55 | 45 | 9.0 | | 115 | 90 | | 23.7 | 155 | | 90 | 79.3 | | 175 | 115 | 108.4 | 210 | 145 | 106.6 | |
| | 40 | 11.6 | | | 85 | | 28.2 | | | 85 | 84.8 | | | 110 | 115.6 | | 140 | 115.5 | |
| | 35 | 13.9 | 80 | | 33.3 | 80 | 89.6 | | 105 | 122.1 | 135 | 123.9 | | | | | | | |
| | 30 | 15.9 | 75 | | 38.2 | 75 | 94.4 | | 100 | 128.4 | 130 | 132.1 | | | | | | | |
| | 50 | 9.3 | 70 | | 42.7 | 70 | 98.7 | | 95 | 134.5 | 125 | 140.2 | | | | | | | |
| 60 | 45 | 12.2 | 120 | | 65 | 46.8 | 160 | | 65 | 104.3 | 180 | 90 | | 140.0 | 220 | | 120 | 147.7 | |
| | 40 | 14.9 | | 60 | 50.7 | 85 | | 145.2 | 115 | 155.1 | | | | | | | | | |
| | 35 | 17.2 | | 55 | 54.1 | 80 | | 150.2 | 110 | 161.9 | | | | | | | | | |
| 65 | 55 | 10.3 | | 125 | 50 | 58.1 | | 165 | 125 | 51.7 | | 185 | 160 | 45.2 | | 220 | 105 | 168.6 | |
| | 50 | 13.7 | 100 | | 26.2 | 130 | 43.5 | | 155 | 54.3 | 100 | | 174.8 | | | | | | |
| | 45 | 16.7 | 95 | | 31.2 | 125 | 59.3 | | 150 | 64.6 | 200 | | 185 | 52.1 | | | | | |
| | 40 | 19.3 | 90 | | 37.0 | 115 | 66.6 | | 145 | 72.3 | | | 180 | 64.0 | | | | | |
| | | 35 | 21.4 | | 85 | 42.5 | 110 | | 76.7 | 140 | | | 81.5 | 175 | 75.0 | | | | |
| 60 | | 11.0 | 80 | | 47.6 | 105 | 80.4 | | 135 | 90.1 | | | 170 | 84.2 | | | | | |
| 70 | 55 | 14.6 | 130 | 75 | 52.5 | 170 | 95 | 92.9 | 190 | 130 | 98.3 | 210 | 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 | | 60 | 64.9 | | 80 | 108.9 | | 115 | 121.1 | | 150 | 124.8 | | | | | |
| 75 | 65 | 11.8 | | 135 | 55 | | 68.3 | 175 | | 75 | 113.5 | | 195 | 110 | 128.2 | 215 | 145 | 133.9 | |
| | 60 | 15.8 | | | 105 | | 27.5 | | | 70 | 117.7 | | | 105 | 134.7 | | 140 | 142.7 | |
| | 55 | 19.4 | 100 | | 32.7 | 65 | 121.8 | | 100 | 140.9 | 135 | 151.5 | | | | | | | |
| | 50 | 22.8 | 95 | | 38.9 | 140 | 38.0 | | 95 | 146.9 | 130 | 159.6 | | | | | | | |
| 80 | 45 | 25.7 | 140 | | 90 | 44.7 | 180 | | 135 | 45.2 | 200 | 90 | | 152.4 | 220 | | 125 | 167.5 | |
| | 40 | 27.4 | | | 85 | 50.1 | | | 130 | 53.5 | | 85 | | 157.6 | | | 120 | 175.1 | |
| | 65 | 16.8 | | 80 | 55.3 | 125 | | 61.6 | 160 | 54.6 | | 115 | 182.1 | | | | | | |
| | 60 | 20.8 | | 75 | 60.1 | 120 | | 69.3 | 160 | 54.6 | | 110 | 189.0 | | | | | | |
| 85 | 55 | 24.0 | | 145 | 70 | 64.5 | | 185 | 115 | 76.6 | | 205 | 155 | 64.5 | | 225 | 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 | 210 | | 190 | 74.1 | | | | | |
| | 40 | 32.6 | 110 | | 29.3 | 100 | 96.6 | | 140 | 91.1 | | | 185 | 85.3 | | | | | |
| 90 | 70 | 18.1 | 150 | | 105 | 34.7 | 190 | | 95 | 102.7 | | | 210 | 135 | 99.8 | | 230 | 180 | 97.4 |
| | 65 | 22.4 | | | 100 | 41.1 | | | 90 | 108.3 | | | | 130 | 108.0 | | | 175 | 109.2 |
| | 60 | 25.8 | | 95 | 47.3 | 85 | | 113.6 | 125 | 116.0 | 170 | 120.2 | | | | | | | |
| | 55 | 29.4 | | 90 | 53.0 | 80 | | 118.6 | 120 | 123.7 | 165 | 131.2 | | | | | | | |
| 95 | 50 | 32.5 | | 155 | 85 | 58.5 | | 195 | 75 | 123.1 | 215 | 115 | | 131.0 | 235 | 160 | | 141.8 | |
| | 45 | 35.3 | | | 80 | 63.7 | | | 70 | 129.3 | | 110 | | 138.0 | | 155 | | 152.1 | |
| | 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 | 160 | | 65 | 76.9 | 200 | | 140 | 46.8 | | 220 | 95 | 156.7 | | 240 | 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 | | 115 | 31.0 | 125 | | 71.6 | 80 | 169.9 | 125 | | 204.8 | | | | | | |
| | 45 | 40.9 | | 165 | 110 | 36.7 | | 205 | 120 | 79.3 | 225 | | 165 | 56.5 | 245 | | 180 | 122.7 | |
| | 40 | 43.4 | | | 105 | 43.5 | | | 115 | 86.7 | | | 160 | 67.0 | | | 170 | 145.4 | |
| | 80 | 20.7 | 100 | | 49.9 | 110 | 93.6 | | 155 | 75.5 | | 160 | 166.9 | | | | | | |
| | 75 | 25.3 | 95 | | 56.0 | 105 | 100.5 | | 150 | 85.2 | | 155 | 177.0 | | | | | | |
| | 70 | 29.3 | 170 | | 90 | 61.7 | 210 | | 100 | 106.7 | | 230 | 145 | 94.6 | | 250 | 150 | 186.5 | |
| | 65 | 33.6 | | | 85 | 67.2 | | | 95 | 112.7 | | | 140 | 103.4 | | | 145 | 195.9 | |
| | 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 OD not shown. | | | | | | | | | | | | 135 | 112.1 | 140 | | 204.9 | 135 | 213.5 |
| | | | | | | | | | | | | 130 | 120.4 | 130 | 221.8 | 130 | 221.8 | | |

Floormesh — Expanded Metal



| Expanded Metal — Gridmesh | | | | | |
|---------------------------|----------------------|-------------------|------------------------------|--------------------|------------|
| 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 galvanised to AS/NZS 4680:1999

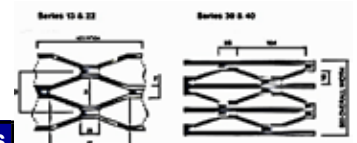
GRIPSPAN™ Grating



| GRIPSPAN™ GRATING BS4592:1970 | | | | | |
|-------------------------------|------|------|-------|-------|---|
| Section Profile | 6512 | 6520 | 10012 | 10020 | Advantages of Gripspan™ Grating. |
| 225mm Wide Tread | ✓ | ✓ | ✓ | ✓ | <ul style="list-style-type: none"> • Light weight to handle. • Fast and economical to install. • Ideal for roof access walkways utilizing 2 x 300mm wide planks and fixing accessories. • Roll formed in one piece - no welds to break loose. • Design ensures large load capacity over long supported spans. • Profiles prevent small objects from falling through. • Available in standard 6000mm lengths or custom lengths from 1000mm - 13,000mm • Easily fabricated into stair treads. |
| 300mm Wide Tread | ✓ | ✓ | ✓ | ✓ | |
| Plain Diamond Tread | ✓ | ✓ | ✓ | ✓ | |
| Serrated Diamond Tread | ✓ | ✓ | ✓ | ✓ | |
| Slotted Tread | ✓ | ✓ | ✓ | ✓ | |
| Slotted Dimple Tread | ✓ | ✓ | ✓ | ✓ | |
| 65mm leg | ✓ | ✓ | ✓ | ✓ | |
| 100mm leg | ✓ | ✓ | ✓ | ✓ | |
| 1.2mm Material | ✓ | ✓ | ✓ | ✓ | |
| 2.0mm Material | ✓ | ✓ | ✓ | ✓ | |
| Galvabond | ✓ | ✓ | ✓ | ✓ | |
| Mild Steel | ✓* | ✓ | ✓* | ✓ | |
| Hot Dipped Galvanized | ✓* | ✓ | ✓* | ✓ | |

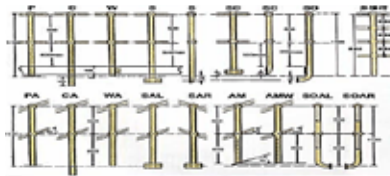
* Please call for supplier assistance.

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 |

Balltube Handrailing



| Stanchion Codes by Supplier | | | Balltube Handrail System — AS 1657-1992 | | |
|-----------------------------|----------|---------|---|----------------------------|----------------------------|
| Locker | Webforge | Weldlok | Stanchion Description | Std Duty Post 3.2mm W/T | Hvy Duty Post 4.0mm W/T |
| P | P | BP | Horizontal Base Plate Stanchion — Straight Railing | 4.8 | 5.3 |
| PA | PA | BPA | Horizontal Base Plate Stanchion — Angled Railing | 4.8 | 5.3 |
| AM | AM | BPAM | 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 |
| AMW | AMW | WAA | Angle Mounted Welded Base — Angled Railing | 3.9 | 4.4 |
| S | S | SM | Side Mounted Stanchion — Straight Railing | 5.0 | 5.6 |
| SAR/L | SAR/L | SMAR/L | Side Mounted Stanchion — Angled Railing | 5.3 | 5.9 |
| SO | SO | SMO | Offset Side Mounted Stanchion — Straight Railing | 5.3 | 5.9 |
| SOAR/L | SOAR/L | SMOAR/L | Offset Side Mounted Stanchion — Angled Railing | 4.9 | 5.4 |
| SC | SC | SMC | Side Mounted Conveyor Stanchion — Straight Railing | 4.9 | 5.4 |
| P | PC | PC | Platform Corner Welded Base Plate — Straight Railing | 3.9 | 4.4 |
| ORS | L | SBBP | Single Ball Base Plate Stanchion — Straight Railing | 1.7 | 2.0 |
| ORH | K | SBSM | Single Ball Side Mounted Stanchion — Straight Railing | 2.0 | 2.3 |
| ORS/DOSO | M | SBH | Single Ball Offset Stanchion — Straight Railing | 1.3 | n/a |

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.

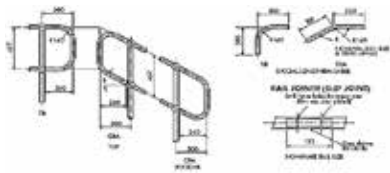
The standard drilling for rails are: Top Rail 32 NB Med (42.4mm OD) and a mid rail of 25 NB Med (33.7mm OD)

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.

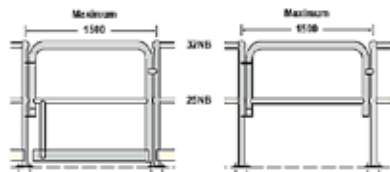
Standard finish is Hot Dipped Galvanised to AS/NZS 4680:2006

The maximum recommended spacing for stanchions is 2.000m.



Handrail End Closure Bends

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

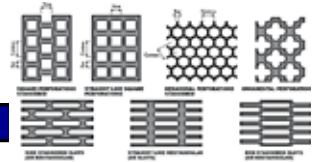


Self-Closing Safety Gates

| Handrail self Closing Safety Gates | | | Handrail self Closing Safety Gates | | |
|------------------------------------|--|--|------------------------------------|--|--|
| Safety Gate | Description | | kg/ea | | |
| Self Closing Gates — With | Safety Gate — With Kick plate (Max 1500mm to centre of post supports) | | 15 | | |
| Self Closing Gates — Without | Safety Gate — Without Kick plate (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 order.

Perforated Sheet — Round Hole Details Only



Perforated Metal Sheet — (Round Hole detail 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 coil. **C3** Available 1220mm coil. **C4**

Aluminium stock available in metric 1800 x 900mm.

Sheet size may be 6'x4', 8'x3', 8'x5', 10'x3', 10'x4', 10'x5'

Other shaped hole patterns on request.

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 — 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 — 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 — ZINCANNEAL® (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% | | | | | | | | | |

Details courtesy of The Locker Group.

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

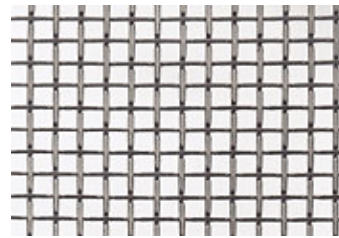
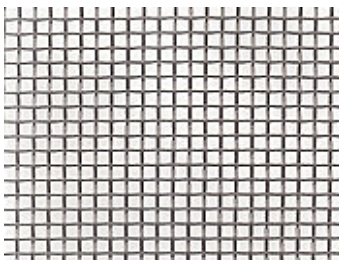
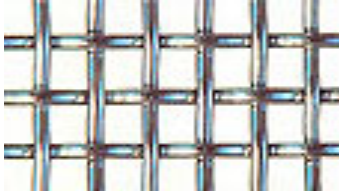
These products may be available from the supplier, only. They may not be a stock item.

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



Plain Weave

| 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 | 2.5 | A | | | |
| 16 | 3/4 | 10 | 3.15 | 70 | 6.6 | A | A | | |
| 12.5 | 5/8 | 10 | 3.15 | 64 | 8.0 | 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 | |
| 2.5 | 8 | 22 | 0.71 | 60 | 2.0 | | | 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 | 2.6 | | | A | |
| 0.90 | 20 | 28 | 0.36 | 51 | 1.3 | A | | A | |
| 0.71 | 20 | 24 | 0.56 | 31 | 3.1 | | | | A |
| 0.71 | 24 | 30 | 0.32 | 48 | 1.2 | | | A | |
| 0.63 | 24 | 26 | 0.63 | 35 | 2.4 | | | A | |
| 0.56 | 30 | 32 | 0.28 | 44 | 1.2 | | | A | |
| 0.50 | 30 | 30 | 0.32 | 38 | 1.5 | | | A | |
| 0.40 | 40 | 34 | 0.22 | 41 | 1.0 | | | A | |
| 0.25 | 60 | 37 | 0.16 | 37 | 0.8 | | | A | A |
| 0.18 | 80 | 39 | 0.13 | 38 | 0.7 | | | A | A |


The weights 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 for animal flooring, Cattle & Sheep flooring, Weaner flooring and Farrowing flooring.

Large Expanded Meshes



| | Large Expanded Meshes — Nominal sheet size is 1200 x 2400 | | | | | | | | | | | | | |  | |
|----------------|---|-----|-------------|-------|-------|-----------------|------|----------------|----------------------|-----|-------------|-------|-------|-----------------|---|--|
| Mesh Reference | Nominal Size of Mesh | | Strand Size | | Mass | % Open area | | Mesh Reference | Nominal Size of Mesh | | Strand Size | | Mass | % Open area | | |
| | | | | | | Raised Norm-Max | Flat | | | | | | | Raised Norm-Max | Flat | |
| | LWM | SWM | Width | Thick | kg/m² | | | | LWM | SWM | Width | Thick | kg/m² | | | |
| 07-10 | 19 | 7 | 1.7 | 1.0 | 3.7 | 60-73 | | 12-20 | 30 | 12 | 2.2 | 2.0 | 5.5 | 64-71 | | |
| 07-10F | 19 | 7 | 1.7 | 1.0 | 3.7 | | 54 | 12-20F | 30 | 12 | 2.2 | 2.0 | 5.5 | | 65 | |
| 09-10 | 28 | 9 | 1.5 | 1.0 | 2.7 | 75-89 | | 15-16 | 38 | 15 | 2.0 | 1.6 | 3.3 | 68-78 | | |
| 09-10F | 28 | 9 | 1.5 | 1.0 | 2.7 | | 67 | 15-16F | 38 | 15 | 2.0 | 1.6 | 3.3 | | 65 | |
| 09-16L | 28 | 9 | 1.6 | 1.6 | 4.4 | 48-56 | | 15-20 | 38 | 15 | 2.7 | 2.0 | 5.1 | 68-74 | | |
| 09-16LF | 28 | 9 | 1.6 | 1.6 | 4.4 | | 67 | 15-20F | 38 | 15 | 2.7 | 2.0 | 5.1 | | 60 | |
| 09-16 | 28 | 9 | 2.2 | 1.6 | 6.2 | 48-56 | | 19-30/F | 50 | 19 | 3.9 | 3.0 | 8.3 | 67-74 | 66 | |
| 09-16F | 28 | 9 | 2.2 | 1.6 | 6.2 | | 67 | 38-30/F | 76 | 38 | 3.5 | 3.0 | 5.0 | 76-81 | 61 | |
| 12-16 | 30 | 12 | 2.2 | 1.6 | 4.4 | 67-75 | | 38-30CY | 76 | 38 | 4.5 | 3.0 | 6.7 | 75-79 | | |
| 12-16F | 30 | 12 | 2.2 | 1.6 | 4.4 | | 62 | 50-30 | 102 | 50 | 5.6 | 3.0 | 5.7 | 76-83 | | |

- All meshes 12** on may be supplied galvanised.
- Non standard sheet sizes available. Conditions apply.
- All of the above may be supplied flattened.

- The flattening process will increase the O/A size of expanded sheets.
- Flattened Profiles will be thinner than the original material thickness.

Metal Edge Trims



| Metal Edge Trims for Expanded Meshes | | | | | | | | | | | |
|--------------------------------------|-----------|----------|-----|--------------|------|-----------|-----------|----------|-----|--------------|------|
| Reference | Length mm | Width mm | Gap | Thickness mm | Mass | Reference | Length mm | Width mm | Gap | Thickness mm | Mass |
| Met 4 | 2440 | 19 | 4 | 1.2 | 1.2 | Met 8 | 2440 | 25 | 8 | 1.6 | 2.6 |
| Met 6 | 2400 | 25 | 6 | 1.6 | 2.3 | Met 10 | 2440 | 25 | 10 | 1.6 | 3.0 |

- All Edge Trim Sections are supplied in a Galvabond finish.

- Refer to the supplier manual for Expanded Mesh Edge Trim Selection Guide.

Sun Screen — Steel




| Sun Screen — Steel | | | | | | | | | | | | | | | | | |
|---|------------|------|--------------|------|-------------|-------|------------------------|-------------|--|------------|------|--------------|-----|-------------|-------|------------------------|-------------|
| Part Number | Sheet Size | | Size of Mesh | | Strand Size | | Mass kg/m ² | % Open Area | Part Number | Sheet Size | | Size of Mesh | | Strand Size | | Mass kg/m ² | % Open Area |
| | LW | SW | LWM | SWM | Width | Thick | | | | LW | SW | LWM | SWM | Width | Thick | | |
| LV10G | 1200 | 2400 | 62 | 14.3 | 4.8 | 0.95 | 5.2 | 37-88 | LV16G * | 2400 | 1200 | 62 | 14 | 6.3 | 1.6 | 11.08 | 18-60 |
| 'LV10G * | 2400 | 1200 | 62 | 14.3 | 4.8 | 0.95 | 5.2 | 37-88 | L7616G | 1200 | 2400 | 76 | 16 | 6.3 | 1.6 | 10 | 21-66 |
| LV16G | 1200 | 2400 | 62 | 14.3 | 6.3 | 1.6 | 11.8 | 18-60 | L7616G * | 2400 | 1200 | 76 | 16 | 6.3 | 1.6 | 10 | 21-66 |
| * Denotes the alternative sheet size dimension. | | | | | | | | | LV16 & L7616 are also available in an Aluminium sheet. Please check. | | | | | | | | |

* Denotes the alternative sheet size dimension.

LV16 & L7616 are also available in an Aluminium sheet. Please check.

Heavy Duty Screen Cloths



| | | | | Heavy Duty Screen Cloths — made using high tensile steel | | | | | | | | | | | |  | | | |
|---------|--------|---------|--------|--|--------|---------|--------|---------|--------|---------|--------|---------|--------|----------|--------|---|--------|----------|--------|
| 2.00 mm | | 2.50 mm | | 3.15 mm | | 4.00 mm | | 5.00 mm | | 6.30 mm | | 8.00 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 |
| Ap | Area | Ap | Area | Ap | Area | Ap | Area | Ap | Area | Ap | Area | Ap | Area | Ap | Area | Ap | Area | Ap | Area |
| 3.15 | 38 | 4.0 | 40 | 5.0 | 41 | 8.0 | 45 | 11.2 | 48 | 16.8 | 51.5 | 20.0 | 51 | 32.5 | 50 | 45.0 | 64 | 75.0 | 25 |
| | | 5.0 | 47 | 5.6 | 42.25 | 8.9 | 47.75 | 12.5 | 50.5 | 18.0 | 54.3 | 22.4 | 52.75 | 35.0 | 61 | 56.0 | 69.75 | 100.0 | 79 |
| | | 6.3 | 52 | 6.3 | 46 | 10.0 | 51.75 | 13.2 | 51.75 | 19.0 | 56.5 | 25.0 | 57.5 | 40.0 | 64.5 | 60.0 | 72.75 | | |
| | | | | 7.1 | 49 | 11.2 | 55.5 | 14.0 | 53.75 | 20.6 | 58.25 | 31.5 | 63 | 45.0 | 66.25 | 63.0 | 72.75 | | |
| | | | | 8.0 | 52 | 15.0 | 63 | 15.0 | 58 | 22.6 | 62 | 38.0 | 68 | 50.0 | 69 | 75.0 | 76 | | |
| | | | | | | 16.0 | 64 | 16.0 | 60.5 | 25.0 | 64 | 40.0 | 70 | | | | | | |
| | | | | | | | | 20.0 | 65 | | | 50.0 | 74.5 | | | | | | |


Other specifications and materials available on request. Made to order lead times will occur.



Reinforcing Mesh & Bars, Trench Mesh


Reinforcing Meshes RL & SL — Trench Meshes — Reinforcing Bar AS/NZS 4671

RECTANGULAR RIBMESH

| Photo for illustration | SAP Search Description | Product Code | Long Wire mm | Cross Wire mm | Weight kg | Pack Size | SAP Number |
|--|-------------------------------------|--------------|--------------|---------------|-----------|-----------|------------|
|  | 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 |

Ribbed wire reinforcing mesh in standard 6.0m x 2.4m sheets. RL = rectangular ligatures.


SQUARE RIBMESH

| Photo for illustration | SAP Search Description | Product Code | Long Wire mm | Cross Wire mm | Weight kg | Pack Size | SAP Number |
|--|------------------------------------|--------------|--------------|---------------|-----------|-----------|------------|
|  | 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 |

Ribbed wire reinforcing mesh in standard 6.0m x 2.4m sheets. SL = square ligatures.


To estimate your number of sheets, divide the area in square metres (m²) by 12.4 and round up to the next whole number.

4B2 Mesh™

| Photo for illustration | SAP Search Description | Product Code | Long Wire mm | Cross Wire mm | Weight kg | Pack Size | SAP Number |
|--|-----------------------------------|--------------|--------------|---------------|-----------|-----------|------------|
|  | MESH-REO-SL62-BLK-D500L-2000-4000 | SL62-4B2 | 6.00 @ 200 | 6.00 @ 200 | 18 | 40 | 198309 |
| | MESH-REO-SL72-BLK-D500L-2000-4000 | SL72-4B2 | 6.75 @ 200 | 6.75 @ 200 | 23 | 40 | 198310 |
| | MESH-REO-SL82-BLK-D500L-2000-4000 | SL82-4B2 | 7.60 @ 200 | 7.60 @ 200 | 30 | 40 | 198313 |

Standard square mesh in a convenient 4.0m x 2.0m sheet size. Able to be carried on top of a ute - legally.

TRENCH MESH

| Photo for illustration | SAP Search Description | Product Code | Width mm | No. Wires | Weight kg | Pack Size | SAP Number |
|--|---------------------------------------|--------------|----------|-----------|-----------|-----------|------------|
|  | MESH-TRENCH-L8TM3-BLK-D500L-200-6000 | L8TM3 | 200 | 3 | 7 | 40 | 109291 |
| | MESH-TRENCH-L8TM4-BLK-D500L-300-6000 | L8TM4 | 300 | 4 | 9 | 40 | 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 |
| | MESH-TRENCH-L12TM5-BLK-D500L-300-6000 | L12TM5 | 400 | 5 | 27 | 30 | 200059 |

Ribbed wire trench mesh in 6.0m lengths.

All details courtesy of 


To estimate the number of trench mesh sheets, divide the length of beam by 5.4 (600mm overlap) and round up to the next whole number.

Reinforcing Bars, Swimming Pool Reinforcing Bars


Reinforcing, Swimming Pool, Plain Bar & Safety Caps — AS/NZS 4671




DEFORMED BAR

| SAP Search Description | Product Code | Stock Length (m) | m/t | Length per t (approx) | SAP Number | Photos for illustration |
|------------------------|--------------|------------------|------|-----------------------|------------|---|
| DB-10-D500N-6000 | N10S6 | 6.0 | 1560 | 260 | 200059 |  |
| DB-12-D500N-6000 | N12S6 | 6.0 | 1083 | 181 | 100095 | |
| DB-12-D500N-9000 | N12S9 | 9.0 | 1083 | 120 | 136814 | |
| DB-12-D500N-12000 | N12S12 | 12.0 | 1083 | 90 | 200059 | |
| DB-16-D500N-6000 | N16S6 | 6.0 | 609 | 102 | 100111 | |
| DB-16-D500N-9000 | N16S9 | 9.0 | 609 | 66 | 100113 | |
| DB-16-D500N-12000 | N16S12 | 12.0 | 609 | 51 | 153936 | |
| DB-20-D500N-6000 | N20S6 | 6.0 | 390 | 66 | 200059 | |
| DB-20-D500N-9000 | N20S9 | 9.0 | 390 | 43 | 200059 | |
| DB-20-D500N-12000 | N20S12 | 12.0 | 390 | 32 | 136818 | |
| DB-24-D500N-9000 | N24S9 | 9.0 | 271 | 30 | 200059 | |
| DB-24-D500N-12000 | N24S12 | 12.0 | 271 | 23 | 110947 | |
| DB-28-D500N-12000 | N28S12 | 12.0 | 199 | 17 | 143009 | |
| DB-32-D500N-12000 | N32S12 | 12.0 | 152 | 13 | 150191 | |
| DB-36-D500N-12000 | N36S12 | 12.0 | 120 | 10 | 176288 | |


SWIMMING POOL REINFORCING BAR


| SAP Search Description | Product Code | Length mm | Metres per t | Lengths per t | SAP Number |  |
|------------------------|--------------|-----------|--------------|---------------|------------|--|
| DB-12-D250N-06000 | S12S6 | 6000 | 1083 | 161 | 143004 | |
| DB-12-D250N-09000 | S12S9 | 9000 | 1083 | 120 | 136814 | |

REINFORCING PLAIN ROUND BAR


| SAP Search Description | Product Code | Length mm | Metres per t | Lengths per t | SAP Number |  |
|------------------------|--------------|-----------|--------------|---------------|------------|---|
| RD-006.50-R250N-06000 | R6S6 | 6000 | 3691 | 619 | 179992 | |
| RD-010.00-R250N-06000 | R10S6 | 6000 | 1560 | 260 | 176994 | |
| RD-012.00-R250N-06000 | R12S6 | 6000 | 1083 | 181 | 177003 | |
| RD-016.00-R250N-06000 | R16S6 | 6000 | 609 | 102 | 177008 | |
| RD-020.00-R250N-06000 | R20S6 | 6000 | 390 | 65 | 177013 | |
| RD-024.00-R250N-06000 | R24S6 | 6000 | 271 | 45 | 177017 | |
| RD-027.00-R250N-06000 | R27S6 | 6000 | 214 | 36 | 200059 | |
| RD-032.00-R250N-06000 | R32S6 | 6000 | 143 | 24 | 200059 | |
| RD-036.00-R250N-06000 | R36S6 | 6000 | 120 | 20 | 200059 | |

BAR GUARDS

| SAP Search Description | Code | Bar Size | Std Pack | Mass | SAP Number |  |
|------------------------|----------|----------|----------|------|------------|---|
| CON-CAP-BARGUARD* | BARGUARD | 12 to 36 | 100 | 3.80 | 137447 | |

Detail courtesy of 

REOSOK®

| SAP Search Description | Code | Bar Size | Std Pack | Mass | SAP Number |  |
|--|--------|----------|----------|------|------------|---|
| CON-CAPREO-SOK* | RS1220 | 12 to 20 | 50 | 2.35 | 168174 | |
| The RS2432 will also fit a fence picket. | RS2432 | 24 to 32 | 50 | 3.20 | 168175 | |

Starter Bars, Footing Cages & Spirals



Starter Bars, Footing Cages and Ribwire Spirals

STARTER BARS

| SAP Search Description | Product Code | Dimensions | Bar Size | Shape | SAP Code | |
|-------------------------------------|--------------|------------------|----------|-------------|----------|--|
| REO-BAR-START-R250N-10-1000-120-150 | SB1012H | 1100 x 150 x 120 | R10 | Safety Hook | 196087 | |
| REO-BAR-START-R250N-10-1000-200 | SB1012 | 1000 x 200 | R10 | L | 178569 | |
| 100009 — No Known Code | SB1014 | 1400 x 200 | R10 | L | 100009 | |
| REO-BAR-START-D500N-12-0800-200 | SB120820 | 800 x 200 | N12 | L | 143357 | |
| REO-BAR-START-D500N-12-1000-200 | SB121020 | 1000 x 200 | N12 | L | 143358 | |
| 100009 — No Known Code | SB121030 | 1000 x 300 | N12 | L | 100009 | |
| REO-BAR-START-D500N-12-1200-150 | SB121215 | 1200 x 150 | N12 | L | 178560 | |
| 100009 — No Known Code | SB121220 | 1200 x 200 | N12 | L | 100009 | |
| 100009 — No Known Code | SB1212 | 1200 x 250 | N12 | L | 100009 | |
| 100009 — No Known Code | SB1214 | 1400 x 250 | N12 | L | 100009 | |
| REO-BAR-START-D500N-12-1000-150-100 | SB1210 | 1000 x 150 x 100 | N12 | Safety Hook | 178558 | |
| REO-BAR-START-D500N-12-1000 | SB121000 | 1000 | N12 | Straight | 178557 | |
| REO-BAR-START-D500N-12-1200 | SB121200 | 1200 | N12 | Straight | 178559 | |
| REO-BAR-START-D500N-12-1500 | SB121500 | 1500 | N12 | Straight | 178563 | |
| REO-BAR-START-D500N-12-2000 | SB122000 | 2000 | N12 | Straight | 178564 | |
| REO-BAR-START-D500N-12-3000 | SB123000 | 3000 | N12 | Straight | 178565 | |
| 100009 — No Known Code | SB161030 | 1000 x 300 | N16 | L | 100009 | |
| 100009 — No Known Code | SB1614 | 1400 | N16 | L | 100009 | |

Z FOOTING CAGES

| SAP Search Description | Product Code | Width x Height | Substitute for | | SAP Code | |
|------------------------|--------------|----------------|----------------|--------|----------|--|
| | | | Top | Bottom | | |
| 100009 — No Known Code | Z17X20412 | 170 x 200 | L8TM3 | L8TM3 | 100009 | |
| 100009 — No Known Code | Z17X30810 | 170 x 300 | L11TM3 | L11TM3 | 100009 | |
| 100009 — No Known Code | Z17X30811 | 170 x 300 | L12TM3 | L12TM3 | 100009 | |
| 100009 — No Known Code | Z17X40810 | 170 x 400 | L11TM3 | L11TM3 | 100009 | |
| 100009 — No Known Code | Z17X40811 | 170 x 400 | L12TM3 | L12TM3 | 100009 | |

WZ FOOTING CAGES

| SAP Search Description | Product Code | Width x Height | Substitute for | | SAP Code | |
|------------------------|--------------|----------------|----------------|--------|----------|--|
| | | | Top | Bottom | | |
| 100009 — No Known Code | TZ20X30611 | 200 x 300 | L11TM3 | L11TM3 | 100009 | |
| 100009 — No Known Code | TZ20X30612 | 200 x 300 | L12TM3 | L12TM3 | 100009 | |
| 100009 — No Known Code | TZ20X40611 | 200 x 400 | L11TM3 | L11TM3 | 100009 | |
| 100009 — No Known Code | TZ20X40612 | 200 x 400 | L12TM3 | L12TM3 | 100009 | |
| 100009 — No Known Code | TZ20X30811 | 200 X 300 | L11TM4 | L11TM4 | 100009 | |

RIBWIRE SPIRALS


| SAP Search Description | Product Code | Spiral Diameter | Wire mm | Tune | SAP Code | |
|-----------------------------------|--------------|-----------------|---------|------|----------|--|
| WIRE-06.00-BRT-RIB-SPIRAL-40T-150 | RBW6MOSP15 | 150 | 6 | 40 | 100009 | |
| WIRE-06.00-BRT-RIB-SPIRAL-40T-170 | RBW6MOSP17 | 170 | 6 | 40 | 178677 | |
| WIRE-06.00-BRT-RIB-SPIRAL-40T-200 | RBW6MOSP20 | 200 | 6 | 40 | 178678 | |
| WIRE-06.00-BRT-RIB-SPIRAL-40T-250 | RBW6MOSP25 | 250 | 6 | 40 | 178679 | |
| WIRE-06.00-BRT-RIB-SPIRAL-40T-300 | RBW6MOSP30 | 300 | 6 | 40 | 178680 | |
| WIRE-06.00-BRT-RIB-SPIRAL-40T-400 | RBW6MOSP45 | 450 | 6 | 40 | 178681 | |



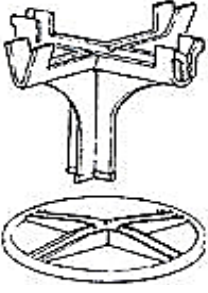
Plastic Clipfast Spacers and Deck Chairs

Plastic Clip Fast Spacers and Deck Chairs


PLASTIC CLIP FAST SPACERS

|  | Product Code | Height | Std Pack | Mass-kg | SAP Code | SAP Search Description |
|---|--------------|--------|----------|---------|----------|---|
| | CFB20 | 20 | 100 | 0.62 | 178027 | CON-BCHAIR-CLIPFAST-B* Suitable to bars 12mm to 16mm diameter. Use for suspended slabs. |
| | CFB25 | 25 | 100 | 0.69 | 168662 | |
| | CFB30 | 30 | 100 | 0.71 | 176165 | |
| | CFB32 | 32 | 100 | 0.72 | 167974 | |
| | CFB35 | 35 | 100 | 0.75 | 176166 | |
| | CFB40 | 40 | 100 | 0.81 | 167975 | |
| | CFB50 | 50 | 100 | 0.92 | 160405 | |
| | CFB65 | 65 | 100 | 1.10 | 167976 | |
| | CFB75 | 75 | 100 | 1.39 | 176167 | |
| | CFBP40 | 40 | 100 | 2.31 | 110558 | Suitable for bars 20mm to 36mm diameter. Use for beams and columns |
| | CFBP50 | 50 | 100 | 2.70 | 110559 | |
| | CFBP65 | 65 | 100 | 3.00 | 200059 | |
| | CFBP75 | 75 | 100 | 3.30 | 200059 | |

PLASTIC CLIP FAST SPACERS

|  | Product Code | Height | Std Pack | Mass-kg | SAP Code | SAP Search Description |
|--|--------------|--------------|----------|---------|----------|--|
| | CFM20 | 20 | 100 | 0.60 | 178029 | CON-BCHAIR-CLIPFAST-M* "M" style mesh support Use for precast and tilt up panels |
| | CFM25 | 25 | 100 | 0.64 | 176168 | |
| | CFM30 | 30 | 100 | 0.66 | 176165 | |
| | CFM32 | 32 | 100 | 0.70 | 178030 | |
| | CFM40 | 40 | 100 | 1.51 | 167977 | |
| | CFM50 | 50 | 100 | 1.58 | 137467 | |
| | CFM65 | 65 | 100 | 1.83 | 167978 | |
| | CFM75 | 75 | 100 | 1.96 | 167979 | |
| | CFSBASE | Plastic Base | 100 | 2.90 | 178028 | CON-BCHAIR-CLIPFAST-BASE |

PLASTIC DECK CHAIRS

|  | Product Code | Height | Std Pack | Mass-kg | SAP Code | Application | SAP Search Description |
|---|--------------|--------------|----------|---------|----------|-------------|---|
| | PDS20 | 20/25 | 100 | 0.83 | 178055 | Bottom | CON-DCHAIR-PLAS* Used in supporting top and bottom reinforcing. Use for suspended slabs |
| | PDS25 | 25/30 | 100 | 0.89 | 178056 | Bottom | |
| | PDS30 | 30/40 | 100 | 1.11 | 178057 | Bottom | |
| | PDS35 | 35/45 | 100 | 1.26 | 178058 | Bottom | |
| | PDS40 | 40/50 | 100 | 1.36 | 178059 | Bottom | |
| | PDS50 | 50/65 | 100 | 3.00 | 178060 | Bottom | |
| | PDS65 | 65/75 | 100 | 3.60 | 178061 | Top | |
| | PDS90 | 90/100 | 100 | 4.20 | 178062 | Top | |
| | PDS110 | 110/120 | 100 | 4.80 | 178063 | Top | |
| | PDS130 | 130/140 | 100 | 5.30 | 178064 | Top | |
| | PDS150 | 150/160 | 100 | 5.90 | 178065 | Top | |
| | PDS170 | 170/180 | 100 | 6.50 | 178066 | Top | |
| | PDS190 | 190/200 | 100 | 7.00 | 178067 | Top | |
| | BCBASE130 | Plastic Base | 100 | 3.00 | 201549 | Base | |

Plastic Deck Chairs, Fastwheel Spacers (cont.)



Plastic Deck Chairs, Fastwheel Spacers and Slab on Ground Chairs

PLASTIC DECK CHAIRS (Cont.)

| SAP Search Description | Product Code | Height | Std Pack | Application | SAP Code | |
|---|--------------|---------|----------|-------------|----------|--|
| Suitable for suspended slabs Supports top & bottom reinforcing | BPDS25/30 | 25/30 | 100 | Bottom | 200059 | |
| | BPDS35/40 | 35/40 | 100 | Bottom | 200059 | |
| | BPDS45/50 | 45/50 | 100 | Bottom | 200059 | |
| | BPDST65/75 | 65/75 | 50 | Top | 200059 | |
| | BPDST90/100 | 90/100 | 50 | Top | 200059 | |
| | BPDST110/120 | 110/120 | 50 | Top | 200059 | |
| | BPDST130/140 | 130/140 | 50 | Top | 200059 | |
| | BPDST150/160 | 150/160 | 50 | Top | 200059 | |
| | BPDST170/180 | 170/180 | 50 | Top | 200059 | |
| | BPDST190/200 | 190/200 | 50 | Top | 200059 | |

FASTWHEEL PLASTIC SPACER

| SAP Search Description | Product Code | Bar Size | Cover | Pack/Mass | SAP Code | |
|--|--------------|----------|-------|-----------|----------|--|
| CON-FASTWHEEL* Used to clip on to fitments. Best used for columns and piers. | FW2012 | 4 - 12 | 20 | 100 | 171482 | |
| | FW2512 | 4 - 12 | 25 | 100 | 176200 | |
| | FW2520 | 16 - 20 | 25 | 100 | 179427 | |
| | FW3012 | 4 - 12 | 30 | 100 | 176201 | |
| | FW3020 | 12 - 20 | 30 | 100 | 190498 | |
| | FW4012 | 3 - 12 | 40 | 100 | 168261 | |
| | FW4020 | 12 - 20 | 40 | 100 | 176202 | |
| | FW5012 | 4 - 12 | 50 | 100 | 168262 | |
| | FW5020 | 12 - 20 | 50 | 100 | 176203 | |
| | FW6012 | 4 - 12 | 60 | 100 | 171483 | |
| | FW6512 | 8 - 12 | 65 | 100 | 100009 | |
| | FW7512 | 4 - 12 | 75 | 100 | 171484 | |
| | FW7520 | 12 - 20 | 75 | 100 | 176205 | |

PLASTIC SLAB ON GROUND SPACERS




| SAP Search Description | Product Code | Height | Pack/Mass | SAP Code | |
|---|--------------|-------------------------|-----------|----------|--|
| CON-BCHAIR-PLAS-SOG* Combination size plastic bar chairs in popular sizes. | SOG2540 | 20/40 | 100/2.20 | 110552 | |
| | SOG5065 | 50/65 | 100/2.50 | 143353 | |
| | SOG5065H | 50/65 Slide Clip H Base | 100/2.40 | 176175 | |
| | SOG7590 | 75/90 | 100/2.70 | 143354 | |
| | SOG85100 | 85/100 | 100/3.10 | 110556 | |
| | SOG105110 | 105/110 | 100/3.30 | 137452 | |
| | SOG115120 | 115/120 | 100/7.50 | 137453 | |
| | SOG125130 | 125/130 | 100/7.80 | 137454 | |
| | SOG135140 | 135/140 | 100/8.60 | 137455 | |
| | SOG145150 | 145/150 | 100/8.80 | 137456 | |
| | SOGC5065 | 50/65 Clip on | 100 | 168171 | |
| | SOGC7590 | 75/90 Clip on | 100 | 100009 | |
| | SOGC85100 | 85/100 Clip on | 100 | 100009 | |




Plastic Tipped Wire Chairs and Bases

Plastic Fastwheel Spacers and Slab on Ground Chairs

PLASTIC TIPPED WIRE CHAIRS

|    Plastic Tipped Wire Bar Chair | Product Code | Bar Size | Std Pack | Mass-kg | SAP Code | SAP Search Description |
|---|--------------|----------|----------|---------|----------|--------------------------------------|
| | BCPT20 | 20 | 200 | 3.00 | 137457 | CON-BCHAIR-BCPT* |
| | BCPT25 | 25 | 100 | 2.00 | 110551 | |
| | BCPT30 | 30 | 100 | 2.00 | 167980 | |
| | BCPT40 | 40 | 100 | 2.00 | 137458 | Four leg wire supports. |
| | BCPT50 | 50 | 100 | 5.00 | 143355 | |
| | BCPT65 | 65 | 100 | 6.00 | 137459 | |
| | BCPT75 | 75 | 100 | 7.00 | 110554 | Used for Top and Bottom reinforcing. |
| | BCPT80 | 80 | 100 | 7.50 | 137461 | |
| | BCPT90 | 90 | 100 | 8.00 | 176156 | |
| | BCPT100 | 100 | 100 | 11.00 | 110550 | Used with flat metal bases. |
| | BCPT110 | 110 | 50 | 5.00 | 155767 | |
| | BCPT120 | 120 | 50 | 7.00 | 167981 | |
| | BCPT130 | 130 | 50 | 8.00 | 137463 | CON-BCHAIR-BCPT* |
| | BCPT140 | 140 | 50 | 9.00 | 167982 | |
| | BCPT150 | 150 | 50 | 10.00 | 155768 | |
| | BCPT160 | 160 | 50 | 10.00 | 176157 | Four leg wire supports. |
| | BCPT170 | 170 | 50 | 11.00 | 176158 | |
| | BCPT180 | 180 | 25 | 8.00 | 160404 | |
| | BCPT190 | 190 | 25 | 8.50 | 176159 | Use for Top and Bottom reinforcing. |
| | BCPT200 | 200 | 25 | 9.00 | 137464 | |
| | BCPT210 | 210 | 25 | 9.00 | 179378 | |
| | BCPT220 | 220 | 25 | 9.00 | 167983 | Used with flat metal bases. |
| | BCPT230 | 230 | 25 | 10.00 | 176160 | |
| | BCPT240 | 240 | 25 | 10.00 | 137465 | |
| | BCPT250 | 250 | 25 | 10.00 | 176161 | |
| | BCPT260 | 260 | 25 | 11.00 | 176162 | |
| | BCPT270 | 270 | 25 | 11.50 | 100009 | |
| | BCPT280 | 280 | 25 | 12.00 | 177184 | |
| | BCPT290 | 290 | 25 | 12.50 | 176163 | |
| | BCPT300 | 300 | 25 | 12.50 | 137466 | |
| | BCPT320 | 320 | 25 | 13.50 | 176164 | |
| | BCPT340 | 340 | 25 | 14.00 | 178026 | |
| | BCPT360 | 360 | 25 | 14.50 | 179380 | |
| | BCPT380 | 380 | 25 | 15.00 | 100009 | |

METAL BASES

|  | Product Code | For sizes | Std Pack | Mass-kg | SAP Code | SAP Search Description |
|---|--------------|-----------|----------|---------|----------|------------------------|
| | Base152 | 20 - 140 | 100 | 5.20 | 155766 | CON-BCHAIR-METAL-BASE* |
| | Base224 | 150-220 | 50 | 5.50 | 168259 | |

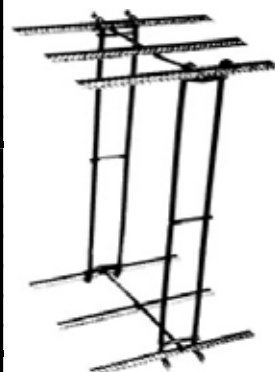
Trench Mesh Support, Block Spacers



Trench Mesh Supports, Cont. Bar Chairs, Block Spacers

WIRE TRENCH MESH CLIPS

| SAP Search Description | Product Code | Cover mm | Bar Size | Std Pack | SAP Code |
|--|--------------|----------|----------|----------|----------|
| Used to provide a fast and efficient way to achieve a rigid cage for a foundation. | TMC8150 | 150 | 8TM | 100 | 100009 |
| | TMC8200 | 200 | 8TM | 50 | 100009 |
| | TMC8250 | 250 | 8TM | 100 | 100009 |
| | TMC8300 | 300 | 8TM | 50 | 100009 |
| | TMC8350 | 350 | 8TM | 50 | 100009 |
| | TMC8400 | 400 | 8TM | 50 | 100009 |
| | TMC11200 | 200 | 11TM | 50 | 100009 |
| | TMC11250 | 250 | 11TM | 100 | 100009 |
| | TMC11300 | 300 | 11TM | 50 | 100009 |
| | TMC11350 | 350 | 11TM | 50 | 100009 |
| | TMC11400 | 400 | 11TM | 50 | 100009 |
| | TMC11450 | 450 | 11TM | 50 | 100009 |
| | TMC11500 | 500 | 11TM | 50 | 100009 |
| | TMC12200 | 200 | 12TM | 50 | 100009 |
| | TMC12250 | 250 | 12TM | 100 | 100009 |
| | TMC12300 | 300 | 12TM | 50 | 100009 |
| | TMC12350 | 350 | 12TM | 50 | 100009 |
| | TMC12400 | 400 | 12TM | 50 | 100009 |
| | TMC12450 | 450 | 12TM | 50 | 100009 |
| | TMC12500 | 500 | 12TM | 50 | 100009 |



PLASTIC TRENCH MESH SUPPORT

| SAP Search Description | Product Code | Width mm | Bar Size | Std Pack | SAP Code |
|------------------------|--------------|----------|----------|----------|----------|
| CON-TRENCH* | TMS60 | 260 | 60x8-12 | 25 | 100009 |



PLASTIC CONTINUOUS BAR CHAIR

| SAP Search Description | Product Code | Length mm | Cover mm | Std Pack | SAP Code |
|---|--------------|-----------|----------|----------|----------|
| Ensures quick placement of reinforcement. | SMCBC252 | 2000 | 25 | 100 | 100009 |
| | SMCBC402 | 2000 | 40 | 100 | 100009 |
| | SMCBC502 | 2000 | 50 | 100 | 100009 |



CONCRETE BLOCK SPACERS

| SAP Search Description | Product Code | Description | Height mm | Std Pack | SAP Code |
|--|--------------|-------------|-----------|----------|----------|
| CON-BCHAIR-ASPRO* High-load capacity, dual-height concrete block spacers. | ASPW25 | Wired | 25 | 125 | 176151 |
| | ASPW30 | Wired | 30 | 100 | 176152 |
| | ASPW35 | Wired | 35 | 100 | 100009 |
| | ASPW40 | Wired | 40 | 75 | 176154 |
| | ASPW45 | Wired | 45 | 75 | 100009 |
| | ASPW50 | Wired | 50 | 60 | 176155 |
| | ASPW55 | Wired | 55 | 50 | 100009 |
| | ASPW60 | Wired | 60 | 40 | 100009 |
| | ASPW65 | Wired | 65 | 40 | 178024 |
| | ASPW70 | Wired | 70 | 30 | 100009 |
| | ASPW75 | Wired | 75 | 30 | 177754 |
| | ASPW80 | Wired | 80 | 25 | 100009 |
| | ASPW85 | Wired | 85 | 25 | 100009 |
| | CBF6550 | Flat 65x50 | 75 | 25 | 100009 |





LYSAGHT 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 10.000m.

Excellent spanning capacities.

Fast and easy to install (590mm coverage).

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

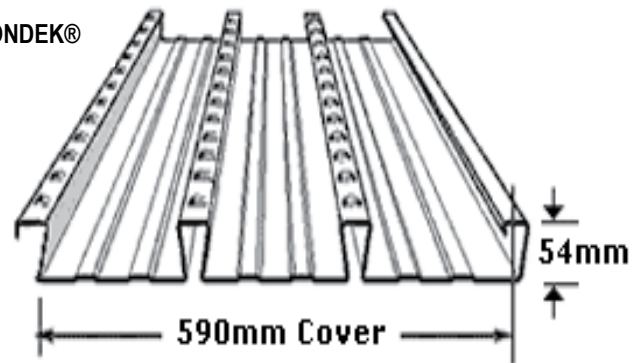
Durable galvanized coating.

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.

BONDEK®



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 |

LYSAGHT BONDEK® Accessories

End Plugs

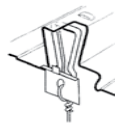
Polyethylene end plugs stop concrete and air from entering the end of the ribs.



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 galvanised 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

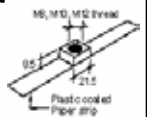


Bon-nut

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.

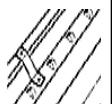


Brackets from builders' strapping

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-A-JOINT®

| SAP Search Description | Product Code | Description | Dimension | SAP Code |
|------------------------|--------------|-------------|-----------|----------|
| CON-CRACK-IND-25-03000 | DYCRACK253 | Plain | 25 x 3000 | 168169 |

| | | | | |
|------------------------|------------|-------|-----------|--------|
| CON-CRACK-IND-45-03000 | DYCRACK453 | Plain | 45 x 3000 | 168170 |
|------------------------|------------|-------|-----------|--------|

Surface crack control strips for small pours.



CRACK-A-JOINT®

| SAP Search Description | Product Code | Description | Colour | SAP Code |
|-------------------------------|--------------|-------------|--------|----------|
| CON-CRACK-IND-CAP-BLK-25-0300 | DYCRACK253B | Rip a Strip | Black | 176191 |

| | | | | |
|-------------------------------|-------------|-------------|-------|--------|
| CON-CRACK-IND-CAP-BLK-45-0300 | DYCRACK453B | Rip a Strip | Black | 178052 |
|-------------------------------|-------------|-------------|-------|--------|

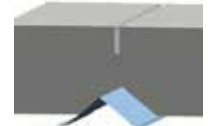
Fluted preformed metal crack inducer designed to induce a crack along the strip as concrete cures.



CRACK INDUCER ON GROUND

| SAP Search Description | Product Code | Description | Dimension | SAP Code |
|------------------------|--------------|---------------|------------|----------|
| No Known Code. | DYGCRAK25 | Plastic Strip | 3000 x 150 | 100009 |

Designed to induce a crack in floor slab from the ground up. Up to 200mm slabs.



DOWEL BARS

| SAP Search Description | Product Code | Bar Size | Length | SAP Code |
|-------------------------------|--------------|----------|--------|----------|
| REO-DOWEL-R250N-BLK-FC-16-450 | DL16450FC | 16 | 450 | 162809 |
| REO-DOWEL-R250N-BLK-FC-16-600 | DL16600FC | 16 | 600 | 178597 |
| REO-DOWEL-R250N-BLK-FC-20-450 | DL20450FC | 20 | 450 | 178711 |
| REO-DOWEL-R250N-BLK-FC-20-600 | DL20600FC | 20 | 600 | 171792 |

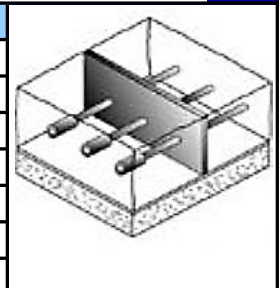
Black round bar used to control movements in joints of concrete slabs. Grade 250R friction cut.



DOWEL BARS Hot Dipped Galvanised

| SAP Search Description | Product Code | Bar Size | Length | SAP Code |
|---------------------------------|--------------|----------|--------|----------|
| REO-DOWEL-R250N-HDGAL-FC-16-450 | DL16450FCD | 16 | 450 | 178608 |
| REO-DOWEL-R250N-HDGAL-FC-16-600 | DL16600FCD | 16 | 600 | 178609 |
| REO-DOWEL-R250N-HDGAL-FC-20-450 | DL20450FCD | 20 | 450 | 178612 |
| REO-DOWEL-R250N-HDGAL-FC-20-600 | DL20600FCD | 20 | 600 | 178613 |
| No Known Code. | DL24600FCD | 24 | 600 | 100009 |
| No Known Code. | DL20800FCD | 20 | 800 | 100009 |

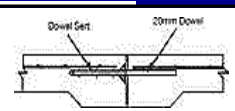
Hot dipped galvanised round bar used to control movement in joints of concrete slabs. GR250R friction cut.



DOWEL SERTS

| SAP Search Description | Product Code | Bar Size | Length | SAP Code |
|---------------------------|--------------|----------|--------|----------|
| CON-DOWEL-SERT-16-200-400 | DWLSERT16 | 16 | 200 | 162833 |
| CON-DOWEL SERT-20-300-600 | DWLSERT20 | 20 | 300 | 162834 |

Nail on, two part, black plastic sleeve for dowels.



DOWEL EXPANSION CAPS

| SAP Search Description | Product Code | Bar Size | Std Pack | SAP Code |
|------------------------|--------------|----------|----------|----------|
| CON-EXP-CAP-12 | CONCAP12 | 12 | 100 | 109516 |
| CON-EXP-CAP-16 | CONCAP16 | 16 | 100 | 167973 |
| CON-EXP-CAP-20 | CONCAP20 | 20 | 100 | 137469 |
| CON-EXP-CAP-24 | CONCAP24 | 24 | 100 | 176197 |


A plastic cap with a hinged end, to fit over a round bar, creating a void at the end of the dowel bar.



Dowelmaster® and Dowel Accessories




Dowelmaster® and Dowel Accessories

| SAP Search Description | Product Code | Description | Std Pack | SAP Code | Dowelmaster®  |
|----------------------------------|--------------|---------------|----------|----------|---|
| No Known Code | DLMASTER16 | Square 16 | 100 | 100009 | |
| No Known Code | DLMASTER20 | Square 20 | 100 | 100009 | |
| GEN-MISC-PLATE-NAIL-DOWELMSTR-16 | NAILPLT16 | Nail Plate 16 | 100 | 176935 | |
| GEN-MISC-PLATE-NAIL-DOWELMSTR-20 | NAILPLT20 | Nail Plate 20 | 100 | 180062 | |

Square plastic sleeve for square steel dowels.

Pictures are for illustration

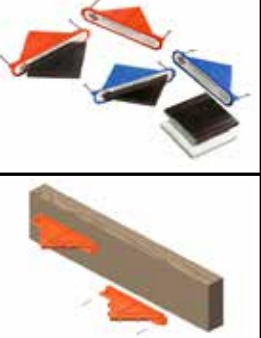
DOWEL COVERS SQUARE METAL

| SAP Search Description | Product Code | Description | Std Pack | SAP Code |  |
|-------------------------|--------------|-------------|----------|----------|---|
| CON-DOWEL-CVR-SQ-16-200 | DYDCM16200 | 16 x 200 | 100 | 176192 | |
| No Known Code | DYDCM16250 | 16 x 250 | 100 | 100009 | |
| No Known Code | DYDCM16300 | 16 x 300 | 100 | 100009 | |
| No Known Code | DYDCM20200 | 20 x 200 | 100 | 100009 | |
| CON-DOWEL-CVR-SQ-20-250 | DYDCM20250 | 20 x 250 | 100 | 176193 | |
| No Known Code | DYDCM20300 | 20 x 300 | 100 | 100009 | |
| No Known Code | DYDCM25200 | 25 x 200 | 100 | 100009 | |
| No Known Code | DYDCM25250 | 25 x 250 | 100 | 100009 | |
| No Known Code | DYDCM25300 | 25 x 300 | 100 | 100009 | |

Square metal cover for square dowels.

Pictures are for illustration

DIAMOND® DOWELS & SLEEVES


| SAP Search Description | Product Code | Description | Std Pack | SAP Code |  |
|------------------------|--------------|--------------|----------|----------|--|
| No Known Code | DYDD06B | 110 x 6 Blk | 1 | 100009 | |
| No Known Code | DYDD06G | 110 x 6 Gal | 1 | 100009 | |
| No Known Code | DYDD10B | 110 x 10 BLK | 1 | 100009 | |
| No Known Code | DYDD10G | 110 x 10 Gal | 1 | 100009 | |
| No Known Code | DDKB110625 | 110 x 6 Blk | 25 | 100009 | |
| No Known Code | DDKG110625 | 110 x 6 Gal | 25 | 100009 | |
| No Known Code | DDKB111015 | 110 x 10 Blk | 15 | 100009 | |
| No Known Code | DDKG111015 | 110 x 10 Gal | 15 | 100009 | |

High performance steel plate dowel system for joints in concrete slabs.


Sleeve acts as nail plate with nails already inserted ready for easy use.

Pictures are for illustration

BISCUIT DOWELS

| SAP Search Description | Product Code | Description | Dimension | Min Qty |  |
|------------------------|--------------|-----------------|------------|---------|---|
| No Known Code | CBD6BLK | Blk with sleeve | 6x110x150 | 10/box | |
| No Known Code | CBD6GAL | Gal with sleeve | 6x110x150 | 10/box | |
| No Known Code | CBD10BLK | Blk with sleeve | 10x110x150 | 10/box | |
| No Known Code | CBD10GAL | Gal with sleeve | 10x110x150 | 10/box | |

Danley® DOWEL PLATE CRADLES

| SAP Search Description | Product Code | Description | Dimension | Slab Thick |  |
|------------------------|--------------|-------------|-----------|------------|---|
| No Known Code | DYPC10156B | Black | 3000 x 10 | 150 | |
| No Known Code | DYPC10156G | Galvanized | 3000 x 10 | 150 | |
| No Known Code | DYPC1017B | Black | 3000 x 10 | 175 | |
| No Known Code | DYPC1017G | Galvanized | 3000 x 10 | 175 | |

Danley® Plate Dowels consist of a plate dowel secured in a fabricated cradle.

A highly efficient dowel system well suited for contraction joints.

Pictures are for illustration

Reid Construction Systems

Reid Construction System (Inc. Couplers, Lock Nuts, Inserts)

REIDBAR



| Product Code | Bar Size | Description | SAP Code — SAP Search Description |
|--------------|----------|--------------------|--------------------------------------|
| RB12C | 12 mm | Reidbar 500MPa cut | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RB16C | 16 mm | Reidbar 500MPa cut | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RB20C | 20 mm | Reidbar 500MPa cut | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RB25C | 25 mm | Reidbar 500MPa cut | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RB32C | 32 mm | Reidbar 500MPa cut | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |

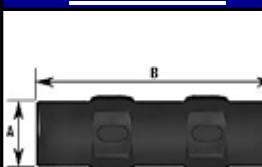
500N Grade reinforcing bar which is easily joined at any point.

COUPLER black



| Product Code | Bar Size | Description | SAP Search Description |
|--------------|----------|---------------|--------------------------------------|
| RBC12 | 12 mm | Coupler black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBC16 | 16 mm | Coupler black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBC20 | 20 mm | Coupler black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBC25 | 25 mm | Coupler black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBC32 | 32 mm | Coupler black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |

COUPLER HDG



| Product Code | Bar Size | Description | SAP Search Description |
|--------------|----------|-------------|--------------------------------------|
| RBC12D | 12 mm | Coupler HDG | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBC16D | 16 mm | Coupler HDG | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBC20D | 20 mm | Coupler HDG | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBC25D | 25 mm | Coupler HDG | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBC32D | 32 mm | Coupler HDG | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |

LOCK NUT black



| Product Code | Bar Size | Description | SAP Search Description |
|--------------|----------|----------------|--------------------------------------|
| RBLN12 | 12 mm | Lock nut black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBLN16 | 16 mm | Lock nut black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBLN20 | 20 mm | Lock nut black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBLN25 | 25 mm | Lock nut black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBLN32 | 32 mm | Lock nut black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |

NAIL PLATE



| Product Code | Bar Size | Description | SAP Search Description |
|--------------|----------|-------------|--------------------------------------|
| RBNP12 | 12 mm | Nail Plate | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBNP16 | 16 mm | Nail Plate | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBNP20 | 20 mm | Nail Plate | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBNP25 | 25 mm | Nail Plate | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |

THREADED insert black.




| Product Code | Bar Size | Description | SAP Search Description. |
|--------------|----------|-----------------------|--------------------------------------|
| RBTI12 | 12 mm | Threaded insert black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBTI16 | 16 mm | Threaded insert black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBTI20 | 20 mm | Threaded insert black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBTI25 | 25 mm | Threaded insert black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |
| RBTI32 | 32 mm | Threaded insert black | 100009 — NS-MISCELLANEOUS-STEEL&TUBE |


Other products available on request; not shown; are BT Couplers and Lenton® Couplers.

Tie Wires, Loop Ties and Tools





| Tie Wires — Loop Ties — Belt and Tools | | | | | TIE WIRE |
|--|--------------|-------------|-------------|------------|---|
| SAP Search Description | Product Code | 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 | |
| No Known Code | AWCL1M6 | 1.57 | 50kg coil | 100009 | |
| WIRE-03.15-TIE-BLK-ANN-050.00KG | AWCL3M2 | 3.15 | 50kg coil | 198474 | |

Coils of black annealed tie wire used as a steel fixing aid.

| | | | | | LOOP TIES |
|----------------------------|--------------|-----------|--------------|------------|--|
| SAP Search Description | Product Code | 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-BLK-1.6-125-QTY200 | LTHP125 | 125 | 200 | 176226 | |
| CON-LT-BLK-1.6-150-QTY200 | LTHP150 | 150 | 200 | 179468 | |
| 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 | |

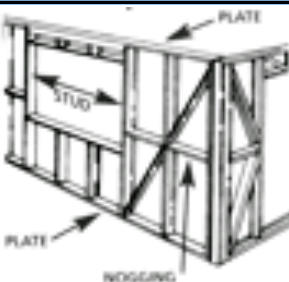
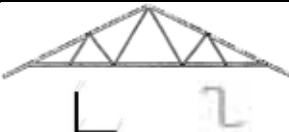
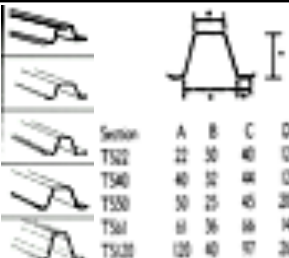
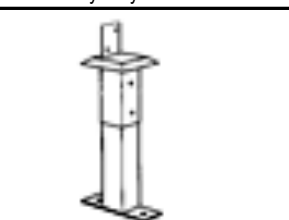
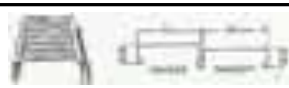
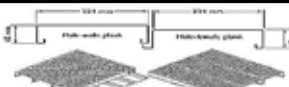

Tie wires with loops used as a steel fixing aid.

| | | | | REEL, BELT & TOOLS |
|---------------------------|--------------|--------------------------------------|------------|---|
| SAP Search Description | Product Code | Description | SAP Number |  |
| CON-MISC-BELT-PACK-HOLDER | IDLREEL | Aluminium reel for tie wire. | 188620 | |
| CON-TIE-IDL-BELT-NLN | IDLNYBELT | Wide nylon belt & buckle for reel. | 176250 | |
| CON-TIE-IDL-BELT-LTR | IDLBELT | Leather belt for reel. | 176249 | |
| No Known Code | IDLCOILA14 | 1.40mm black tie wire coil for reel. | 100009 | |
| No Known Code | IDLCOILA | 1.57mm black tie wire coil for reel. | 100009 | |
| No Known Code | IDLCOILG | 1.57mm Galv tie wire coil for reel. | 100009 | |
| GEN-WIRE-TIE-CYCLONE-TOOL | TWSTLN | Twisting tool with long handle. | 153683 | |
| GEN-MISC-NIPP-EC-200 | NIPP8 | Knippex Nippers 200mm. | 176928 |  |
| No Known Code | NIPP200 | Crescent end cutters 200mm. | 100009 | |

Tools used in steel fixing may change or be deleted over time. Please check.



Steel Building Components

| Steel Building Frame Sections | | | | | | |
|--|--|-----------------------|-------------------------|--------------------|--------------|-------------------------------------|
| Profile and Usage | Product | Dimensions mm x mm | BMT mm | Stock Lengths m | Mass kg/m | Lengths per Pack |
|  | Standard Stud | 75 x 32 | 1.20 | 7.50 | 1.278 | 50 |
| | Standard Plate | 78 x 31 | 1.20 | 7.50 | 1.290 | 50 |
| | Standard Nogging | 72 x 34 | 1.20 | 7.50 | 1.290 | 50 |
| | Light Duty Stud | 75 x 32 | 0.80 | 7.50 | 1.800 | 25 |
| | Cyclone Stud | 75 x 38 | 1.60 | 7.50 | 1.600 | 25 |
| | Junction Stud | 75 x 38 | 1.20 | 7.50 | 1.702 | 12 |
| | Stiffened Top Plate | 79 x 75 | 1.60 | 7.50 | 2.610 | 10 |
| | Truss Cord | 100 x 53/49 | 1.00 | 7.50 | 1.770 | 20 |
| | Trimmer Angle | 38 x 38 | 1.20 | 4.80/5.80 | 0.760 | 40 |
| |  Pictures for illustration purposes. | Supratruss Chord | 75 x 38 | 0.60 | 7.50 | 0.914 |
| Supratruss Web | | 51 x 28 | 0.75 | 6.10 | 0.466 | 50 |
| Box Rafter | | 75 x 38 | 0.48 | 7.50 | 1.179 | 50 |
| Supraframe Nogging | | 22 x 20 | 0.48 | 6.10 | 0.249 | 20 |
| C7512 Purlin (Qld only) | | 75x44x10 | 1.20 | 6.10/7.50 | 1.660 | 20 |
|  Size may vary to those shown. | Ceiling Batten 22mm | 22 x 63 | 0.42 | 6.10 | 0.367 | 25 |
| | Roof Batten 40mm | 40 x 75 | 0.55 | 7.50 | 0.770 | 25 |
| | Roof Batten 50mm | 50 x 88 | 0.75 | 7.50 | 0.980 | 25 |
| | Topspan 61 | 61 x 102.5 | 0.75 | 7.50 | 1.181 | 25 |
| | Topspan 61 | 61 x 102.5 | 1.00 | 7.50 | 1.564 | 25 |
| | Topspan 96 (Qld only) | 96 x 64 | 0.75 | 7.50 | 1.680 | 20 |
| | Topspan 120 | 120 x 149 | 0.70 | 7.50 | 2.068 | 20 |
| | Topspan 120 | 120 x 149 | 0.90 | 7.50 | 2.641 | 20 |
| | Topspan 120 | 120 x 149 | 1.00 | 7.50 | 2.732 | 20 |
|  | Product | Post Size | Length Range | | kg/m | Packed as |
| | Uni-Pier™ (Post) | 65 x 65 RHS | 200 - 2800 | | 3.89 | Each |
| | Uni-Pier™ (Post) | 75 x 75 RHS | 400 - 4000 | | 5.56 | Each |
| | Product | Post Size | Adjustment details | | Mass | Packed as |
| | Uni-Pier™ (Head) | Suit 65x 65 Post | Adjustment up to 200 mm | | 1.0 | Each |
| | Uni-Pier™ (Head) | Suit 75x 75 Post | | | 1.3 | Each |
| Posts and Heads sold as a complete unit only. | | | | | | |
|  | Product | Size — mmxmm | Configuration | Lengths — m | kg/m | Packed as |
| | Interlok Grating G06512 | 225 x 63 x 1.2 | MM / MF | 6.075 | 8.24 | Each |
| | Interlok Grating G06520 | 225 x 63 x 2.0 | MM / MF | 6.075 | 12.2 | Each |
|  | Product | Size — mmxmm | Configuration | Lengths — m | kg/m | Packed as |
| | Roof Track | 225 x 65 x 1.2 | MM / MF | 3.018/6.073 | 3.8 | Each |
|  Aprox kg per Roll shown on right. | Product. | Size/Gauge/Ln | Size/Gauge/Ln | Size/Gauge/Ln | Mass | Order Details. |
| | Steel Strapping | 25 x1.0 x 100m | 32 x 1.2 x 25m | 38 x 1.6 x 100m | Various | Minimum order 1 bundle 1 length. |
| | | 25 x1.2 x 100m | 32 x 1.2 x 50m | 50 x 1.5 x 50m | | Lead Time |
| | | | 32 x 1.2 x 100m | 51 x 1.6 x 25m | | Aprox 10 days |
| | Punched & Unpunched | 30 x1.0 x 30m | 32 x 1.6 x 100m | | | |

Some advantages over timber when buying steel building products:

High strength and long life — Galvanised or ZINCALUME® steel finish.
Design freedom.

Fire and termite resistant. Will not warp or rot.

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 our staff.

Compatible with many other existing building products.

Pre-fabricated steel frames are precision engineered.

No expensive tools needed.

SupaZeds®, SupaCees® Purlins



| SupaZeds®, SupaCees® Sections and Purlins — 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 |
| C7512 (Qld only) | 1.2 | 75 | N/A | N/A | N/A | 44 | 10 | 1.66 |
| Z/C10010 | 1.0 | 102 | 49 | 53 | 12.5 & 12.5 | 51 | 12.5 | 1.78 |
| 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 | 2.62 |
| 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 | 3.59 |
| 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 | 5.70 |
| 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 | 5.74 |
| SZ/SC20024 | 2.4 | 203 | 65 | 81.5 | 22 & 22 | 74.5 | 24.0 | 7.24 |
| 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 | 12.76 |
| 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 | 15.23 |
| SZ/SC40024 | 2.4 | 400 | 115 | 134 | 31 & 30 | 125.5 | 34.5 | 13.16 |
| SZ/SC40030 | 3.0 | 400 | 115 | 134 | 31 & 30 | 125.5 | 34.5 | 16.45 |

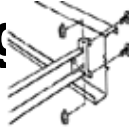
Both purlin sections may be subject to minimum rolling quantities, rolling dates and minimum or maximum lengths.

Please check with our staff for your special punching requirements.

Item in shaded area is classed as a purlin only.

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

Hooklok II Purlin Bridging



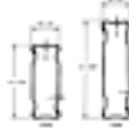
| Hooklok II Purlin Bridging | | | |
|----------------------------|-----------------------|-------------|-------------|
| Bridging Types | Suit Purlin size | Tie Types | Suits |
| Standard | 100 - 150 - 200 - 250 | Ridge | As standard |
| Fascia | 150 - 200 - 250 | Girt Hanger | As standard |
| Adjustable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


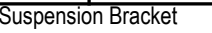
Purlin Bridging



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

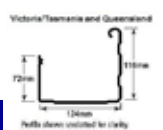
FIRMLOK® Beams



| FIRMLOK® Beams and Accessories | | | |  | |
|-------------------------------------|--------------------|-------------|--|---|--|
| Code | Height mm | Width mm | Thickness mm | Mass kg/m | |
| F10011 | 100 | 47 | 0.55 | 1.93 | |
| F15015 | 150 | 47 | 0.75 | 3.21 | |
| F20020 | 200 | 47 | 1.00 | 5.04 | |
| FIRMLOK® Beams in COLORBOND® steel. | | |  Suspension Bracket Internal Joiner Brick Wall Bracket Universal Cleats | | |
| Brackets | Universal | Accessories | | | |
| | Apex Collar Tie | | | | |









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 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 |
|  | CUSTOM ORB® (Corrugated) | 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 | | | | |
|  | CUSTOM BLUE ORB® For Curving | 0.60 | 6.10 | 762 | 17 | 5° (1 in 12) | 1600 | 1800 | 3000 | 3300 |
| | | | | | | | | | | |
| | | | | | | Recommended — 5 screws/m ² | | | | |
|  | TRIMDEK HI-TEN® | 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 | | | | |
|  | SPANDEK® | 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 | | | | |
|  | KLIP-LOK® 406 | 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 | | | | |
|  | KLIP-LOK® 700 Hi-Strength | 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) | 3000 | 3600 | 3600 | 3900 |
| | | | | | | Recommended — 4.5 screws/m ² | | | | |
|  | LONGLINE® 305 | 0.70 | 9.70 | 305 | 48 | 1° (1 in 50) | 2000 | 2500 | 2700 | 2700 |
| | | | | | | | | | | |
| | | | | | | Recommended — 3 screws/m ² | | | | |
|  | FLATDEK® | 0.42 | 6.25 | 250 | 45 | 2° (1 in 30) | 4800 | 4800 | - | - |
| | FLATDEK® II | 0.42 | 6.25 | 250 | 45 | 2° (1 in 30) | 4800 | 4800 | - | - |
| | | | | | | Recommended — 8 screws/m ² — Not for foot traffic. | | | | |
| FLATDEK® II is manufactured in Queensland only. (At the time of printing.) | | | | | | | | | | |

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 dependent 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 that 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.

The website is 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.





COLORBOND® steel Fencing Components

COLORBOND® steel Fencing Components

There are a number of suppliers who can supply a Pre-Painted steel fence and at reasonable prices.

However, there is only BlueScope Lysaght which supplies a COLORBOND® steel fence.

The Lysaght COLORBOND® steel fence consists of a number of components and may be assembled very quickly by two persons.

The components for a fence is as the diagram below. It is only the infill sheets that alter the style or name of the fence.

Styles include Neetascreen/Smartascreen, Miniscreen, Customscreen. These may be supplied in 1500, 1800 or 2100mm high.

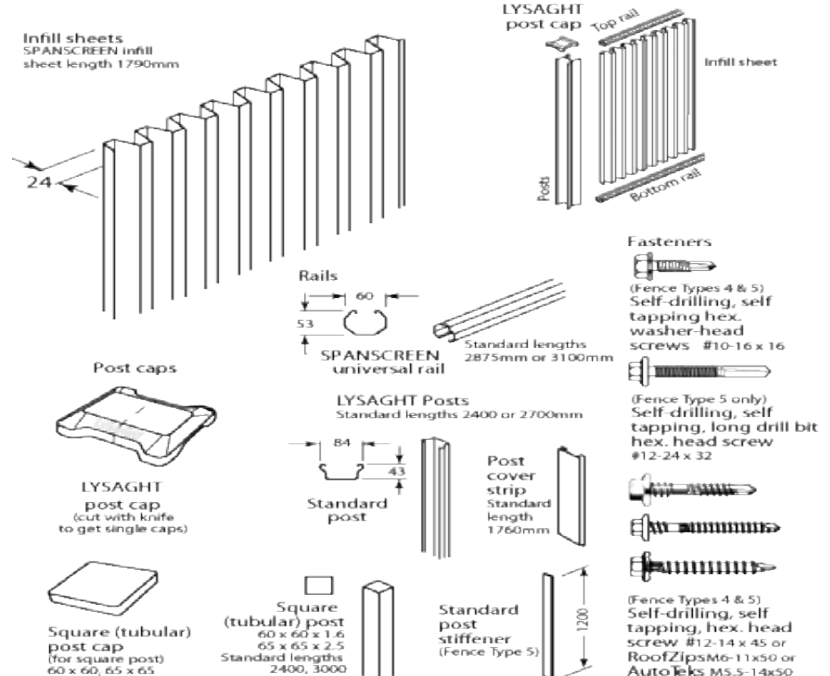
COLORBOND® steel is a registered name of BlueScope Lysaght.

All details are courtesy of BlueScope Lysaght.

All details are correct at time of printing
Details may change without prior notice.

All diagrams and photographs are for illustration purposes.

All components may be ordered seperately.



COLORBOND® steel Plus Fencing Extension

A variation on the above styles is to add a lattice section of 300mm to the top of the fence. This may be referred to as Neetascreen Plus.

Other alternative finish is to add Ball Caps instead of the normal COLORBOND® steel fence cap.

While most of the fence styles may be installed as straight line, raked or steeped, the addition of the lattice section can only be applied to a straight or a stepped fence. The addition of the lattice section to a raked fence will not work.



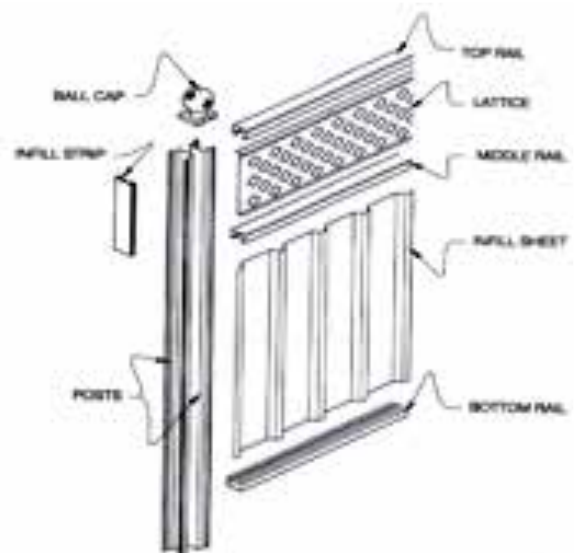
An example of a straight fence.



An example of a raked fence.



An example of a stepped fence.



Photos are for illustration only.



Rainwater Tanks & Water Harvesting

Water Storage Options & Rainwater Harvesting



Pioneer water tanks are available in a range of sizes and capacities suitable for many applications and uses, such as, rural, residential, commercial or industrial water storage.

Select your water tank sizes and capacities from our full range of rural/domestic Pioneer water tanks, or view the Commercial Capacities Chart below to select a tank capacity to suit your need.



Rural/Domestic Tank Range

| Model | Tank Dimensions | | Gross Capacity | |
|-------|-----------------|--------|----------------|--------|
| | Diameter | Height | Litres | Gallon |
| GT10 | 2.67m | 2.18m | 12,200 | 2,600 |
| GT20 | 3.34m | 2.18m | 19,100 | 4,200 |
| GT30 | 4.01m | 2.18m | 27,542 | 6,053 |
| GT40 | 4.68m | 2.18m | 37,574 | 8,258 |
| GT50 | 5.35m | 2.18m | 48,963 | 10,761 |
| GT60 | 6.02m | 2.18 | 62,111 | 13,651 |
| GT80 | 6.69m | 2.18m | 76,504 | 16,814 |
| GT90 | 7.35m | 2.18m | 92,570 | 20,345 |
| GT110 | 8.02m | 2.18m | 110,116 | 24,212 |
| GT130 | 8.69m | 2.18m | 129,292 | 28,416 |
| GT150 | 9.36m | 2.18m | 149,948 | 32,956 |
| GT170 | 10.03m | 2.18m | 172,134 | 37,832 |
| GT200 | 10.70m | 2.18m | 195,851 | 43,044 |
| GT220 | 11.36m | 2.18m | 221,604 | 48,704 |
| GT250 | 12.03m | 2.18m | 247,874 | 54,478 |
| GT280 | 12.71m | 2.18m | 276,814 | 60,839 |
| GT290 | 10.70m | 3.23m | 290,632 | 63,876 |
| GT330 | 11.36m | 3.23m | 328,096 | 72,109 |
| GT370 | 12.03m | 3.23m | 367,831 | 80,784 |

Commercial Tank Range (Gross Capacity)

| Tank Diameter | Number of Rings | | | | | | | |
|----------------|-----------------|-------|--------|--------|--------|--------|--------|--------|
| | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 |
| metres | 1.15 | 2.18 | 3.23 | 4.27 | 5.31 | 6.35 | 7.39 | 8.43 |
| XL01 (2.67m) | 6KL | 12KL | 18KL | 24KL | 30KL | - | - | - |
| XL04 (3.34m) | 10KL | 19KL | 28KL | 38KL | 47KL | 56KL | - | - |
| XL05 (4.01m) | 15KL | 28KL | 41KL | 54KL | 67KL | 80KL | 93KL | - |
| XL08 (4.68m) | 20KL | 38KL | 56KL | 74KL | 91KL | 109KL | 127KL | - |
| XL10 (5.35m) | 26KL | 49KL | 73KL | 96KL | 119KL | 143KL | 166KL | - |
| XL13 (6.02m) | 33KL | 62KL | 92KL | 122KL | 151KL | 181KL | 210KL | 240KL |
| XL15 (6.69m) | 40KL | 77KL | 114KL | 150KL | 187KL | 223KL | 260KL | 296KL |
| XL20 (7.35m) | 49KL | 93KL | 137KL | 182KL | 226KL | 270KL | 314KL | 358KL |
| XL23 (8.02m) | 58KL | 110KL | 163KL | 216KL | 269KL | 321KL | 374KL | 426KL |
| XL25 (8.69m) | 68KL | 130KL | 192KL | 254KL | 315KL | 377KL | 439KL | 500KL |
| XL30 (9.36m) | 79KL | 150KL | 223KL | 294KL | 366KL | 437KL | 509KL | 580KL |
| XL35 (10.03m) | 91KL | 173KL | 255KL | 337KL | 419KL | 501KL | 583KL | - |
| XL40 (10.70m) | 103KL | 196KL | 291KL | 384KL | 477KL | 571KL | 664KL | 758KL |
| XL45 (11.36m) | 117KL | 222KL | 328KL | 434KL | 539KL | 645KL | 750KL | 855KL |
| XL50 (12.03m) | 131KL | 248KL | 368KL | 486KL | 604KL | 723KL | 841KL | 959KL |
| XL60 (12.70m) | 146KL | 277KL | 410KL | 542KL | 673KL | 805KL | 937KL | 1.10ML |
| XL65 (13.37m) | 161KL | 307KL | 454KL | 600KL | 746KL | 892KL | 1.00ML | 1.18ML |
| XL70 (14.04m) | 178KL | 338KL | 501KL | 662KL | 823KL | 984KL | 1.14ML | 1.30ML |
| XL80 (14.71m) | 195KL | 371KL | 549KL | 726KL | 903KL | 1.10ML | 1.30ML | 1.43ML |
| XL85 (15.37m) | 213KL | 406KL | 601KL | 794KL | 987KL | 1.18ML | 1.37ML | 1.57ML |
| XL90 (16.05m) | 232KL | 442KL | 654KL | 864KL | 1.10ML | 1.28ML | 1.49ML | 1.70ML |
| XL100 (16.71m) | 252KL | 479KL | 710KL | 938KL | 1.17ML | 1.39ML | 1.62ML | 1.85ML |
| XL110 (17.38m) | 273KL | 518KL | 767KL | 1.00ML | 1.26ML | 1.51ML | 1.75ML | 2.00ML |
| XL120 (18.05m) | 294KL | 559KL | 828KL | 1.10ML | 1.36ML | 1.63ML | 1.89ML | 2.16ML |
| XL130 (18.72m) | 316KL | 601KL | 890KL | 1.18ML | 1.46ML | 1.75ML | 2.03ML | 2.32ML |
| XL140 (19.39m) | 339KL | 645KL | 955KL | 1.26ML | 1.57ML | 1.88ML | 2.18ML | 2.49ML |
| XL150 (20.05m) | 363KL | 690KL | 1.02ML | 1.35ML | 1.68ML | 2.01ML | 2.34ML | 2.66ML |

Protect your precious resource

Australian rural communities depend on water storage systems to survive. For more than two decades, BlueScope has supplied rural Australia with water tanks for all types of farming and domestic applications.

Built with strong and durable BlueScope Zinalume® or Colorbond® steel, BlueScope Water Tanks can be designed to fit any environment.

Check out the options to suit your needs.



BlueScope Water Tanks provide water storage solutions to leading Australian and international organisations working in the agricultural, oil and gas, mining, utilities, humanitarian, education, local government and industrial sectors.

All our products meet the required Australian Standards and are independently verified by consulting engineers.



'Built stronger to last longer'

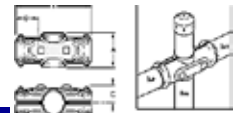
Renowned for their excellent design, Pioneer steel water tanks have set the benchmark for reliability and durability. Throughout Australia, Pioneer is widely recognised for providing cost-effective, well-engineered water storage tanks for the most essential, demanding operations. Available in capacities between 12,000 & 2,600 litres.












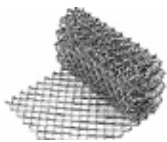
'The market leader in cents per litre'

Designed for domestic, rural and agricultural uses. WaterPoint tanks incorporate the most advanced technology in tank lining, wall panelling and roof design to deliver the best performance and value for money.




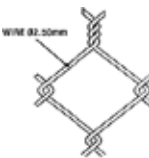

Fencing Fittings and Post Caps



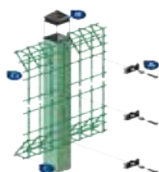
| | | | | Post Caps & Fence Fittings | | | | | | | |
|--|------------|---------|------|----------------------------|-----------|---------|------|--|---------------------|----------------|------|
| Round Post Caps (Galvabond) | | | | Fixed Tees (Galvanised) | | | | Universal Rail Clamps (Galvanised) | | | |
| Code | Pipe (NB) | Cartons | Mass | Code | Thru-Butt | Cartons | Mass | Code | Butt | Cartons | Mass |
| K20GB | 20 | 300 | 8.4 | T1515 | 15-15 | 150 | 12.0 | UFFB25 | 25 | 40 | 14 |
| K25GB | 25 | 150 | 6.0 | T2020 | 20-20 | 100 | 15.0 | UFFB32 | 32 | 30 | 12 |
| K32GB | 32 | 100 | 8.0 | T2025 | 20-25 | 80 | 17.0 | UFFB40 | 40 | 30 | 14 |
| K40GB | 40 | 80 | 5.6 | T2525 | 25-25 | 50 | 11.3 | UFFB50 | 50 | 20 | 11 |
| K50GB | 50 | 50 | 5.0 | T2532 | 25-32 | 40 | 14.0 | Universal Post Clamps (Galvanised) | | | |
| K65GB | 65 | 30 | 6.0 | T2540 | 25-40 | 30 | 15.0 | Code | Butt | Cartons | Mass |
| K80GB | 80 | 40 | 9.0 | T3225 | 32-25 | 40 | 14.0 | UFFT25 | 25 | 50 | 9 |
| K90GB | 90 | 20 | 5.0 | T3232 | 32-32 | 40 | 16.0 | UFFT32 | 32 | 40 | 9 |
| K100GB | 100 | 20 | 6.5 | T3240 | 32-40 | 20 | 11.0 | UFFT40 | 40 | 40 | 9 |
| K125GB | 125 | 20 | 7.5 | T3250 | 32-50 | 20 | 16.0 | UFFT50 | 50 | 40 | 10 |
| K150GB | 150 | 10 | 4.0 | T4025 | 40-25 | 40 | 15.0 | UFFT65 | 65 | 30 | 9 |
| Square Tube Caps — Domed (Galvabond) | | | | T4032 | 40-32 | 30 | 14.3 | UFFT80 | 80 | 20 | 7 |
| Code | Tube | Cartons | Mass | T4040 | 40-40 | 20 | 11.0 | UFFT100 | 100 | 20 | 9 |
| K25MSGB | 25x25 | 300 | 5.4 | T4050 | 40-50 | 10 | 9.0 | Universal Connector (Galvanised) | | | |
| K35MSGB | 25x25 | 150 | 5.0 | T5025 | 50-25 | 30 | 12.8 | Code | Butt | Cartons | Mass |
| K40MSGB | 40x40 | 150 | 5.4 | T5032 | 50-32 | 30 | 16.0 | UFFMPC | | 100 | 5 |
| K50MSGB | 50x50 | 100 | 5.3 | T5040 | 50-40 | 20 | 16.0 | Gate Catches | | | |
| K60MSGB | 60x60 | 50 | 4.0 | T5050 | 50-50 | 10 | 9.5 | Code | Description | carton mass kg | |
| K65MSGB | 65x65 | 50 | 3.9 | T6550 | 65-50 | 10 | 12.0 | CAC6 | Two way catch | 20 = 12 | |
| K75MSGB | 75x75 | 60 | 7.0 | T8025 | 80-25 | 10 | 6.0 | CAC28 | D Latch | 50 = 11 | |
| K90MSGB | 90x90 | 20 | 3.5 | T8032 | 80-32 | 10 | 9.5 | BTS28 | Striker | 50 = 3.5 | |
| K100MSGB | 100x100 | 30 | 7.0 | T8040 | 80-40 | 10 | 10.5 | B13L | Drop Bolt | 30 = 13.5 | |
| K150MSGB | 150x150 | 20 | 8.0 | T8050 | 80-50 | 10 | 13.0 | G22 | Short Plate Gudgeon | 50 = 14 | |
| Round Tube Caps (Polypropylene) Black | | | | Fixed Corners (Galvanised) | | | | S2 | Pipe Hinge Strap | 50 = 7.5 | |
| Code | OD Tube | Cartons | Mass | Code | Butt-Thru | Cartons | Mass | <div>Round Post Caps </div> <div> Square Tube caps</div> <div>Flat Plastic Caps → </div> <div> ← Fixed Tees</div> <div>Fixed Corner →  ← Fixed Crosses</div> <div>CAC8 Two Way Catch → </div> <div> ← D Latch & Striker</div> <div> Drop Bolt →</div> <div> Short Plate Gudgeon</div> | | | |
| PC16BL | 16x1.2-1.6 | 1000 | 1.23 | C2020 | 20-20 | 40 | 14.0 | | | | |
| PC19BL | 19x1.2-1.6 | 1000 | 2.09 | C2525 | 25-25 | 30 | 12.0 | | | | |
| PC22BL | 22x1.2-1.6 | 1000 | 3.00 | C2532 | 25-32 | 20 | 12.7 | | | | |
| PC25BL | 28x1.2-1.6 | 500 | 1.70 | C2540 | 25-40 | 20 | 10.7 | | | | |
| PC28BL | 28x1.2-1.6 | 500 | 1.66 | C3232 | 32-32 | 20 | 12.0 | | | | |
| PC32BL | 32x1.2-1.6 | 1000 | 3.20 | C3240 | 32-40 | 10 | 8.0 | | | | |
| PC50BI | 50x1.2-1.6 | 200 | 2.10 | C3250 | 32-50 | 10 | 11.0 | | | | |
| Square Tube Caps (Polypropylene) Black | | | | C4040 | 40-40 | 10 | 10.0 | | | | |
| Code | Tube | Cartons | Mass | C4050 | 40-50 | 10 | 11.0 | | | | |
| PC1212BL | 12x12-1.6 | 1000 | 1.00 | C5050 | 50-50 | 5 | 9.0 | | | | |
| PC1919BL | 19x19-1.6 | 500 | 1.20 | Fixed Crosses (Galvanised) | | | | | | | |
| PC2525BL | 25x25-1.6 | 500 | 1.98 | Code | Butt-Thru | Cartons | Mass | | | | |
| PC3030BL | 30x30-1.6 | 300 | 1.45 | X2020 | 20-20 | 50 | 13.0 | | | | |
| PC3535BL | 35x35-2.6 | 200 | 1.40 | X2525 | 25-25 | 30 | 12.0 | | | | |
| PC3825BL | 38x25-1.6 | 200 | 1.10 | X2532 | 25-32 | 20 | 12.7 | | | | |
| PC4040BL | 40x40-1.6 | 200 | 1.43 | X2540 | 25-40 | 30 | 16.0 | | | | |
| PC5025BL | 50x25-1.6 | 200 | 1.90 | X2550 | 25-50 | 20 | 12.0 | | | | |
| PC5050BL | 50x50-2.0 | 100 | 2.56 | X3232 | 32-32 | 20 | 13.5 | | | | |
| PC5735BL | 57x38-1.6 | 100 | 1.32 | X3240 | 32-40 | 20 | 11.5 | | | | |
| PC6438BL | 64x38-2.0 | 50 | 1.00 | X3250 | 32-50 | 10 | 9.5 | | | | |
| PC6535BL | 65x35-2.0 | 250 | 3.00 | X4040 | 40-40 | 20 | 14.0 | | | | |
| PC7550BL | 75x50-2.0 | No set | N/A | X4050 | 40-50 | 10 | 5.5 | | | | |
| PC10050BL | 100x50-2.0 | 100 | 2.73 | X5050 | 50-50 | 10 | 9.0 | | | | |
| PC15050BL | 150x50-2.0 | 50 | 3.15 | X5065 | 50-65 | 10 | 10.5 | | | | |



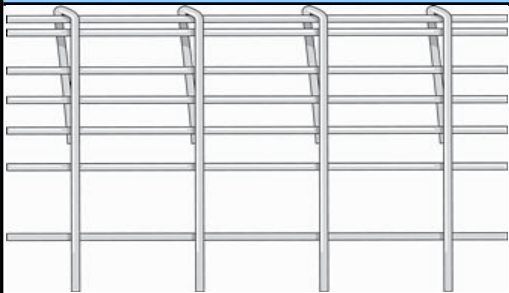
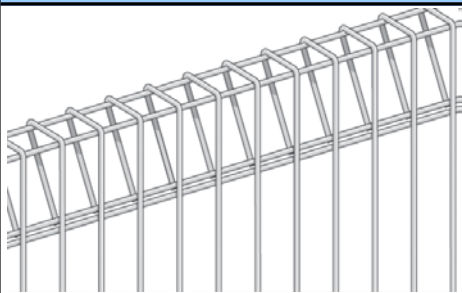
Chainwire Fence Options

| Chain wire (Also referred to as Chainlink) | | | | | | | |
|--|-----------|--|--------------|---|-----------|---------------|--------------|
| Diamond x Wire Size | Height mm | Roll Length m | Mass kg/roll | Diamond x Wire Size | Height mm | Roll Length m | Mass kg/roll |
| 50 x 2.5 | 600 | 20 | 19 | 60 x 2.5 | 600 | 20 | 16 |
| Standard | 900 | 20 | 28 | Standard | 750 | 20 | 20 |
| Galvanised | 1200 | 20 | 38 | Galvanised | 900 | 20 | 24 |
|  | 1350 | 20 | |  | 1050 | 20 | 28 |
| Knuckle/Knuckle | 1500 | 20 | 46 | | 1200 | 20 | 32 |
| | 1800 | 20 | 55 | | 1350 | 20 | 36 |
|  | 2000 | 10 | 31 | | 1500 | 20 | 40 |
| Knuckle/Barb | 2100 | 10 | 33 | | 1800 | 20 | 48 |
| | 2400 | 10 | 38 | Normally supplied in Knuckle/Knuckle finish only | | | |
| | 3000 | 10 | 46 | 50 x 2.5 | 750 | 15 | 21 |
| | 3600 | 10 | 56 | PVC Coated | 900 | 15 | 25 |
| 50 x 3.15 | 900 | 15 | 36 | | 1200 | 15 | 33 |
| Heavy | 1200 | 15 | 48 |  | 1500 | 15 | 42 |
| Galvanised | 1800 | 15 | 71 | | 1800 | 15 | 50 |
| | 2400 | 10 | 96 | | 2000 | 10 | 37 |
| | 3000 | 10 | 119 | | 2100 | 10 | 39 |
| | 3600 | 10 | 142 | | 2400 | 10 | 44 |
| Fixing of Chainwire | | Fixing of Roll Top Fences | | | 2500 | 10 | 46 |
| Alternatives are Timber Posts and Rails. Steel Pipe Posts and Rails. Square Steel Posts. Using Strainer Wires. | | Mainly Using Square Steel Posts Fixed using "U" Clips. See illustration. | | | 3000 | 10 | 55 |
| | |  | | 60 x 2.5 | 900 | 20 | 28 |
| | | | | PVC Coated | 1200 | 20 | 36 |
| | | | | | 1800 | 20 | 55 |

Details sourced from a number of suppliers and correct at time of printing.



Domestic Fence Panel Options

| Domestic Fence Panel Options (Acacia & Banksia or similar panels shown) | | | |
|---|--|--|---|
| Roll Top & Bottom Fence Panels Spacing 50 x 75mm | Size Range Fence Panels | Roll Top & Bottom Fence Panels Spacing Wires 75mm apart | Size Range Fence Panels |
|  | 2400 x 900 2400 x 1200 2400 x 1800 3000 x 1200* |  | 2400 x 900 2400 x 1200 2400 x 1800 3000 x 880# 3000 x 1180# 3000 x 1480# |
| Alternate names may be Acacia/Classic or Arufura. * Indicates Arufura supply option. | Typical Finish Galvanized Optional Finish Powder Coated | Alternate names may be Banksia or Barra. # Indicates Barra supply option. | Typical Finish Galvanized Optional Finish Powder Coated |

These wire fence panels are rolled over top and bottom. Swimming pool regulations vary greatly and the home owner should check with his/her local council before installing any style of fence panel so that it is compliant.

Corresponding gates are available to match the fence panels and longer-than-normal lead times may apply.

These wire fence panels are also available in a powder-coated finish. Please check as colours may differ between suppliers.

Please see fixing suggestions above. Gate hardware may also vary upon each application and regulation. Please check with your council.

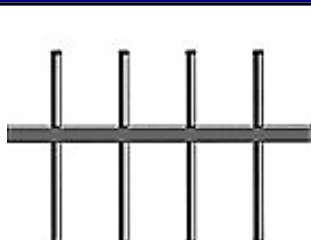


Alternate Decorative Fencing Options

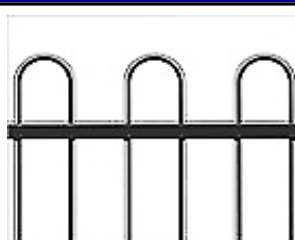
Alternative Decorative Aluminium Pool Fencing Options



Pool compliant. 1200mm High*



Pool compliant. 1200mm High*



Pool compliant. 1200mm High*

Similar style gates are also available. Please check. Most swimming pool barrier codes require gates to be self closing and self latching. A magna latch; as shown; may be a statutory or compulsory requirement.



Eden
Flat Top — 2400mm Long.
Heights:-
900-1200 — 1500-1800mm
Vertical Bars:-
16mm or 19mm O.D.

Byron™
Rod Top — 2400mm Long.
Heights:-
1200-1500mm
Vertical Bars:-
16mm or 19mm O.D.

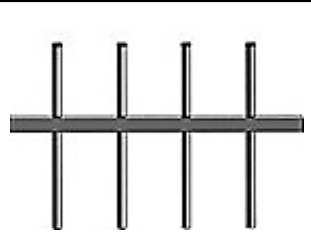
Keppel®
Loop Top — 2400mm Long.
Heights:-
900-1200 — 1500-1800mm
Vertical Bars:-
16mm or 19mm O.D.

* Regulatory requirements may differ between councils. Please check with your local council.

Alternative Decorative Steel Fencing Options



Pool compliant. 1200mm High*



Pool compliant. 1200mm High*



Pool compliant. 1200mm High*

Similar style gates are also available. Please check. While the ARC Fences range has been shown, some other manufacturers may have a similar panel but under another name.

A typical fixing method is by using an "L" bracket or a tube bracket as shown.



Sturt®
Flat Top — 2400mm Long.
Heights:-
900-1200 — 1500-1800mm
Vertical Bars:-
16mm or 19mm O.D.

Bass®
Rod Top — 2400mm Long.
Heights:-
900-1200 — 1500-1800mm
Vertical Bars:-
16mm or 19mm O.D.

Lassiter®
Loop Top — 2400mm Long
Heights:-
900-1200 — 1500-1800mm
Vertical Bars:-
16mm or 19mm O.D.



LYSAGHT® MANDALAY® fencing

LYSAGHT® MANDALAY® Slat Style Fencing



The slat style of the MANDALAY® fence allows breeze and natural light flow, while contributing to the privacy and look of your home. With a modern and stylish look, it can be installed as a stand-alone fence or combined as an infill to brick or rendered concrete posts.

Available in a range of COLORBOND® steel colours.

More durable than timber alternatives, 100% termite & rot resistant.

More cost effective than powder-coated aluminium options.

Provides privacy and timeless elegance to your home.

Available in 1200mm, 1500mm, 1800mm panel heights.

Panel width — 2350mm. Matching gate kits available.



Security Fencing Options

Security Fencing Options.

The most popular option is the straight top security fence with three rows of barbed wires laced on to the top. The design consists of a corner post (80NB), braced and intermediate straight posts of 40NB, all in galvanised finish. The intermediate posts may be crimped in three place at the top to accommodate the tying on of the barbed wires. Intermediate posts are placed at 2.400 metre spacings, which allow for an optional pipe top rail. Some outlets will carry galvanised pipes in 7.200m lengths, leaving no wastage. For very large installations, it may be necessary to order special length galvanised pipes from the pipe mill to reduce or eliminate any waste.

The chainwire used is 1.800m, which may have either knuckle/knuckle top and bottom or knuckle at the bottom and barb at the top. A further option is to have the chainwire supplied with barb/barb both top and bottom.

Chainwire













Barbed Wire



A strainer wire; doubled and twisted taut; may be used top and bottom and smaller tie wires to lace the chainwire to the intermediate posts and corner strainer posts. For some very high security areas, the security fence may be topped with a razor wire.

Suggested requirements for a Security Chainwire Fence

| Posts | Caps | Tees | Barbed Wire | Adj Corners | Bracing | Chainwire | Stainer wire | Tie Wire | Post mix |
|--|---|--|---|--|--|---|--|---|--|
|  Total length of fence divided by 2.400m |  Total number of posts. |  Optic Total number of posts. |  Total length of fence multiplied by 3. |  Total number of corner posts x 2. |  Total number of corner posts x 2. |  Total length of fence divided by 20m. |  Total length of fence time two. |  Total length of fence time four. |  Total number of posts 1.5 bags/post |

Pre-fabricated Security Fencing Options



Diplomat® /Vanguard® /Garrison®

Through rail — Galvanised steel — Crimped and spear tops.
Horizontal Rails 40 x 40 x 1.6 mm
Vertical Pickets 25 x 25 x 1.2 mm
Panels — 1800, 2100 or 2400mm high
Spacing 140mm Centres

Uses

Schools
Businesses
Railway Stations



Ambassador™

Through rail — Galvanised steel — Square tops & plugs.
Horizontal Rails 40 x 40 x 1.6mm
Vertical Pickets 25 x 25 x 1.2 mm
Panels — 1800, 2100 or 2400mm high
Spacing 140mm Centres

Uses

Schools
Businesses
Railway Stations

The names shown in Bold and Underlined are Trademarks of ARC Fences.

All details are correct at the time of printing but details may change without prior notice

All details are courtesy of ARC Fences.
Other suppliers may use other names, materials and finish.

Temporary Security Fencing Options

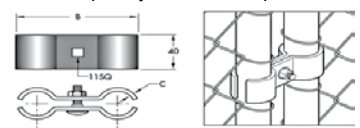
There are many variations of a temporary fence. Some are listed below.

- Temporary fencing to secure construction sites and private property
- Temporary fencing for residential housing sites
- Temporary fencing and crowd control barriers for major public events.

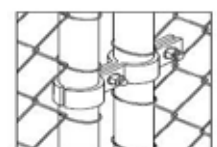
These fence panel can be joined with a TFC (Temporary Fence Clamps) for a number of size pipes.

| Temporary Fence Clamps | | | Temporary Fence Clamp Hinge | | |
|------------------------|-----------|------------|-----------------------------|-----------|------------|
| Code | Pipe (NB) | Qty/Carton | Code | Pipe (NB) | Qty/Carton |
| TFCN2525 | 25 x 25 | 50 | THC4025 | 40 x 25 | 20 |
| TFCN3232 | 32 x 32 | 20 | THC4040 | 40 x 40 | 10 |
| TFCN4040 | 40 x 40 | 20 | THC5050 | 50 x 50 | 10 |
| TFCN5050 | 50 x 50 | 20 | | | |

Temporary Fence Clamps



Temporary Fence Clamp Hinge



Fencing Wires & Joiners

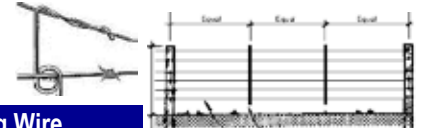


| Plain Fence Wires — Standard Galvanised and Wire Joiners | | | | | | | | | |
|--|--------------------|-------------------------|---------|------------|---------------|-------------------|-------------------------|-----------|------------|
| Wire Diameter | Length m | Mass/ Roll & Bundle Qty | Tensile | Tension kn | Wire Diameter | Length m | Mass/ Roll & Bundle Qty | Tensile | Tension kn |
| 4.00 | 500 | 49kg - 10 | Soft | 1.8 | 2.50 | 1500 | 58kg - 10 | High | 1.8 |
| 3.15 | 750 | 47kg - 10 | Soft | 1.2 | 2.80 | 1000 | 48kg - 10 | High | 2.0 |
| 2.50 | 1500 | 58kg - 10 | Soft | 1.0 | 2.00 | 2000 | 52kg - 10 | Soft | 1.0 |
| 2.50 | 1500 | 58kg - 10 | Medium | 1.3 | *5.20 | 400 | 43kg - 5 | White PVC | 1.8 |
| Wire Joiners. | | | | | | | | | |
| Code | Description. | Bag Qty | Box Qty | | Code | Description. | Bag Qty | Box Qty | |
| J21 | Medium 2.00-3.25mm | 100 | 500.0 | | J22 | Large 3.25-4.20mm | 50 | 250.0 | |

Joiners are reusable, corrosion resistant, high-tensile, steel-locking mechanism.

Wire details courtesy of AWP. Joiners courtesy of Lightning Fencing products

Steel Wire Fence Droppers



| Steel Wire Fence Droppers — Heavily Drawn Galvanised 4.0mm Spring Wire | | | | | | | |
|--|-----------------------------|-----------------------------------|-------------------------------|--------------------------|----------------------------------|-----------------------------------|-------------------------------|
| Code & Overall Length cm. | Spacings from Bottom in cms | No. of Line Wires and Colour Code | Mass per bundle — 25 Droppers | Code & Overall Length cm | Spacings from Bottom in cms | No. of Line Wires and Colour Code | Mass per bundle — 25 Droppers |
| FD360 -60 | 30 - 30 | 3 Yellow | 2.5kg | FD693 - 93 | 15 - 15 - 18 - 20 - 25 | 6 Gold | 4.0kg |
| FD361 - 61 | 28 - 33 | 3 Red | 2.5kg | FD7104-104 | 13 - 15 - 15 - 18 - 20 - 23 | 7 Orange | 4.5kg |
| FD476 - 76 | 27 - 26 - 23 | 4 Brown | 3.2kg | FD7106-106 | 13 - 15 - 15 - 18 - 20 - 25 | 7 Lt. Green | 4.5kg |
| FD478 - 78 | 26 - 26 - 26 | 4 Black | 3.2kg | FD8100-100 | 13 - 13 - 13 - 15 - 15 - 18 | 8 Pink | 4.6kg |
| FD490 - 90 | 30 - 30 - 30 | 4 Lt. Brown | 3.5kg | FD8107-107 | 13.5-15 - 15 - 12 - 16 - 20-15.5 | 8 Green | 4.8kg |
| FD491 - 91 | 30 - 28 - 33 | 5 Teal | 3.6kg | FD8114-114 | 10-13-15-15-18-20-23 | 8 Violet | 5.0kg |
| FD576 - 76 | 15 - 18 - 20 - 23 | 6 Burgundy | 3.4kg | FD996 - 96 | 10-10-10-10-13-13-15-15 | 9 Lt. Blue* | 4.9kg |
| FD691 - 91 | 15 - 15 - 18 - 20 - 23 | 6 Olive | 4.0kg | | | | |

* Measured to the nearest 0.5 cm.

Details courtesy of :-



Barbed Wires

| Barbed Wires — Heavy or Standard Galvanised (May be imported) | | | | | | | | | |
|---|----------|--------------|--------------|---------------|------------------|----------|--------------|--------------|---------------|
| Size. mm | Length m | Mass kg/roll | Galv Coating | Rolls/ Pallet | Size. mm | Length m | Mass kg/roll | Galv Coating | Rolls/ Pallet |
| High Tensile Barbed Wire | | | | | Iowa Barbed Wire | | | | |
| 1.57 | 500 | 24 | Heavy | 48 | 2.50 | 400 | 47 | Standard | 27 |
| 1.80 | 500 | 30 | Heavy | 36 | | | | | |

Barbed Wire & Fence Post details courtesy of AWP.



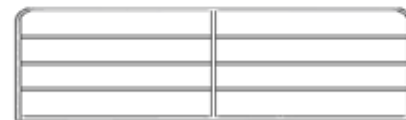
Steel Fence Posts

(Standard Hole Spacings to meet Australian requirements)

| Steel Fence Posts — Black or Galvanised (May be imported) | | | | | | | | | |
|---|--------------|-------------------|-----------------|-------------------|---------|--------------|-------------------|-----------------|-------------------|
| Size cm | Finish Black | Finish Galvanized | Bundle Quantity | Mass per bundle t | Size cm | Finish Black | Finish Galvanized | Bundle Quantity | Mass per bundle t |
| 45 | Light Black | - | 400 | - | 165* | Light Black | H.D. Gal | 400 | 1.35 |
| 60 | Light Black | - | 400 | - | 180* | Light Black | H.D. Gal | 400 | 1.48 |
| 90 | Light Black | - | 400 | - | 210* | Light Black | H.D. Gal | 400 | 1.72 |
| 135* | Light Black | H.D. Gal | 400 | 1.10 | 240* | Light Black | H.D. Gal | 200 | 0.98 |
| 150* | Light Black | H.D. Gal | 400 | 1.22 | | | | | |

* Also available as Heavy posts. H.D. Gal are also heavy posts.

5 Bar Gates — Centre Brace



| Galvanised 5 Bar Gates | | | | | |
|------------------------|------------------|-------------------------|-----------|-----------|--------------|
| Size Opening | Actual Gate Size | Centre or I' Stay Brace | Materials | | Mass kg/Gate |
| | | | Bow | Infill | |
| 8'0" | 2370 | 1 Brace | 25NB Pipe | 25NB Pipe | 25 |
| 10'0" | 2970 | 1 Brace | 25NB Pipe | 25NB Pipe | 29 |
| 12'0" | 3570 | 1 Brace | 25NB Pipe | 25NB Pipe | 34 |
| 14'0" | 4170 | 2 Braces | 25NB Pipe | 25NB Pipe | 41 |
| 16'0" | 4830 | 2 Braces | 25NB Pipe | 25NB Pipe | 44 |

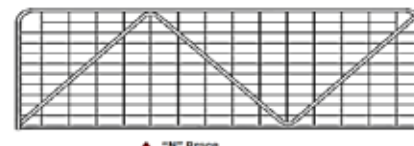
Data courtesy of AWP.

Mesh Gates — 'I' Stay Brace



| Galvanised Mesh Gates | | | | | |
|-----------------------|------------------|-------------------------|-----------|-----------------|--------------|
| Size Opening | Actual Gate Size | Centre or I' Stay Brace | Materials | | Mass kg/Gate |
| | | | Bow | Infill Mesh | |
| 2'8" | 770 | No | 25NB Pipe | 200 x 100 x 5.0 | 8 |
| 4'0" | 1180 | No | 25NB Pipe | 200 x 100 x 5.0 | 10 |
| 5'0" | 1500 | No | 25NB Pipe | 200 x 100 x 5.0 | 13 |
| 6'0" | 1800 | No | 25NB Pipe | 200 x 100 x 5.0 | 14 |
| 7'0" | 2100 | No | 25NB Pipe | 200 x 100 x 5.0 | 16 |
| 8'0" | 2380 | 1 Brace | 25NB Pipe | 200 x 100 x 5.0 | 20 |
| 10'0" | 2980 | 1 Brace | 25NB Pipe | 200 x 100 x 5.0 | 22 |
| 12'0" | 3580 | 1 Brace | 25NB Pipe | 200 x 100 x 5.0 | 26 |
| 14'0" | 4180 | 2 Braces | 25NB Pipe | 200 x 100 x 5.0 | 31 |
| 16'0" | 4780 | 2 Braces | 25NB Pipe | 200 x 100 x 5.0 | 36 |

Mesh Gate — 'N' Stay Brace

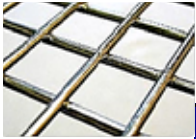


| N' Stay Gates | | | | | |
|---------------|------------------|---------------|------------|----------|--------------|
| Size Opening | Actual Gate Size | N' Stay Brace | Materials | | Mass kg/Gate |
| | | | Bow & Stay | Infill | |
| 10'0" | 2980 | Yes | 25NB Pipe | Gal Mesh | 26 |
| 12'0" | 3580 | Yes | 25NB Pipe | Gal Mesh | 29 |
| 14'0" | 4180 | Yes | 25NB Pipe | Gal Mesh | 33 |
| 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 | Gate/Post Hinges | Gate Catches | Farm Gate Packs | Gudgeon |
| | | | | | |



General Purpose Galvanised Meshes

Easy Sheets

| Size of mesh | Product Code | Sheet Size m x m | Mass kg/sheet | Uses |
|------------------|------------------|------------------|---------------|--|
| 25 x 25 x 2.50 | ES - WM - "Size" | 2.0 m x 1.2 m | 7.584 | Weldmesh™ sheets (Easy Sheets) were designed especially for the DIY projects and the handy people in mind. The sheets are of convenient sizes, making it easy to carry in a trailer, utility or station wagon. Do It Yourself projects around the house may include stylish wine racks, sturdy bird cages or dog barriers. Ideal for use in the garden. |
| 50 x 25 x 3.15 | | 2.0 m x 1.2 m | 7.200 | |
| 50 x 50 x 3.15 | | 2.0 m x 1.2 m | 5.250 | |
| 50 x 50 x 4.00 | | 2.0 m x 1.2 m | 10.000 | |
| 75 x 50 x 4.00 | | 2.0 m x 1.2 m | 8.000 | |
| 100 x 100 x 4.00 | | 2.0 m x 1.2 m | 6.400 | |
| 100 x 100 x 5.00 | | 2.0 m x 1.2 m | 6.600 | |

Some weights may be an approximate only.

* All mesh details courtesy of:-



General Purpose Weldmesh™ Sheets

| Size of mesh | Product Code | Sheet Size m x m | Mass kg/sheet | Long wires mm @ mm | Cross wires mm | Standard Unit |
|-----------------|--------------|------------------|---------------|--------------------|----------------|---------------|
| 25 x 25 x 2.5 | WM/WG2A11 | 3.0 m x 2.4 m | 23 | 2.5 @ 25 | 2.5 @ 25 | Sheet |
| 25 x 25 x 3.15 | WM/WG311 | 3.0 m x 2.4 m | 36 | 3.15 @ 25 | 3.15 @ 25 | Sheet |
| 50 x 25 x 3.15 | WM/WG312 | 3.0 m x 2.4 m | 27 | 3.15 @ 25 | 3.15 @ 50 | Sheet |
| 50 x 50 x 3.15 | WM/WG322 | 3.0 m x 2.4 m | 26 | 3.15 @ 50 | 3.15 @ 50 | Sheet |
| 50 x 50 x 4.0 | WM/WG422 | 3.0 m x 2.4 m | 29 | 4.0 @ 50 | 4.0 @ 50 | Sheet |
| 75 x 50 x 4.0 | WM/WG423 | 3.0 m x 2.4 m | 24 | 4.0 @ 50 | 4.0 @ 75 | Sheet |
| 50 x 50 x 5.0 | WM/WG522 | 3.0 m x 2.4 m | 32 | 5.0 @ 50 | 5.0 @ 50 | Sheet |
| 75 x 50 x 5.0 | WM/WG523 | 3.0 m x 2.4 m | 29 | 5.0 @ 50 | 5.0 @ 75 | Sheet |
| 100 x 100 x 5.0 | WM/WG544 | 3.0 m x 2.4 m | 27 | 5.0 @ 100 | 5.0 @ 100 | Sheet |
| 100 x 100 x 5.6 | WM/WG5A44 | 3.0 m x 2.4 m | 29 | 5.6 @ 100 | 5.6 @ 100 | Sheet |
| 150 x 100 x 5.6 | WM/WG5A46 | 3.0 m x 2.4 m | 25 | 5.6 @ 100 | 5.6 @ 150 | Sheet |

Galvanized sheets for industrial applications. SAP look up code "WM". Some weights may be an approximate only.

Some Mesh sizes may also be available from a supplier in a bright finish. Please check.



Stock Rail — W-Strap — Truck side

Stock Rail — W' Strap — Truck side

| Size Imperial | Size metric | 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 Imperial | Size metric | 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 |

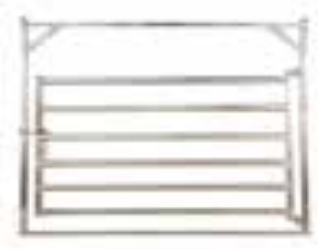



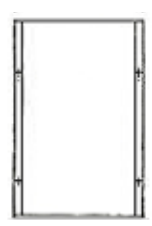


May be used to increase carrying capacity of light weight produce. Eg - Cotton.

| Size Imperial | Size metric | 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 |

Material "W" Strap is normally available as 25/bundle.






Cattle Management Accessories



| Cattle Management Accessories | | | |
|--|--|--|---|
| <p>Gate-in-Frame. Re-locatable as required and easy to assemble.</p> <div> <div> <p>Light Duty Gate-in-Frame Frames 40x40 RHS. Rails 40x40 RHS.</p> </div> <div> <p>Premier® Gate-in-Frame Frames 40x40 RHS. Rails 53x35 Oval Section.</p> </div> </div> <p>Cattle King® Gate-in-Frame Frames 50x50 RHS Rails 115x42 Oval Section.</p> <p>Simple interlocking pin system Compatible with all yards</p> <p>Manufactured from high-strength steel</p> <p>Lightweight for easy handling Easy to assemble</p> | | |  |
|  | <p>Race bow. Galvanised Pipe Construction.</p> <div> <div> <p>Light Duty Race Bow Frames 40x40 RHS. Rails 40x40 RHS.</p> </div> <div> <p>Premier® Race Bow Frames 40x40 RHS. Rails 53x35 Oval Section.</p> </div> </div> <p>Cattle King® Race Bow Frames 50x50 RHS Rails 115x42 Oval Section.</p> <p>Lightweight for easy handling Easy to assemble</p> <p>Re-locatable as required One-man handling</p> <p>Simple interlocking pin system Compatible with all yards</p> | | |
| <p>Slide gates. Re-locatable as required and easy to assemble.</p> <div> <div> <p>Light Duty Slide Gate Frames 40x40 RHS. Rails 40x40 RHS.</p> </div> <div> <p>Premier® Slide Gate Frames 40x40 RHS. Rails 53x35 Oval Section.</p> </div> </div> <p>Cattle King® Slide Gate Frames 50x50 RHS Rails 115x42 Oval Section. Cattle King® has only 5 rails</p> <p>Galvanised steel construction. Lightweight for easy handling</p> <p>Manufactured from high-strength steel</p> | | |  |
|  | <p>Manway Gates. Manufactured from high-strength steel.</p> <div> <div> <p>Light Duty Manway gate Frames 40x40 RHS. Rails 40x40 RHS.</p> </div> <div> <p>Premier® Manway Gate Frames 40x40 RHS. Rails 53x35 Oval Section.</p> </div> </div> <p>Cattle King® Manway Gate Frames 50x50 RHS Rails 115x42 Oval Section. Cattle King® has only 5 rails</p> <p>Galvanised steel construction. Simple interlocking pin system</p> <p>Easy to assemble</p> <p>Manufactured from high-strength steel</p> | | |
|  | <p>Calf Race Bows.</p> <p>Re-locatable as required and easy to assemble.</p> <p>Calf Race Bow Frames 40x40 RHS. Rails 40x40 RHS.</p> <p>Manufactured from high-strength steel</p> <p>These products may have to be sourced from a fabricator.</p> | <p>Calf Slide Gates.</p> <p>Re-locatable as required and easy to assemble.</p> <p>Calf Slide Gate Frames 40x40 RHS. Rails various steel products.</p> |  |
| Picture for illustration only. | Details of products used in construction may vary. Please check. | | Picture for illustration only. |
|  | <p>Pins. Standard design across all components.</p> <p>Pins used in construction of cattle runs Standard pin — 16ø 60 x 275mm</p> <p>With protective zinc coating. Stockable item at all locations.</p> | | |



Cattle Panels, Yard Benefits & Layouts

| Cattle Panels | | | | | | | |
|---|---|-----------------------|-----------------|--------------------------|---------|---------|--------------|
| Cattle Panel | Sizes | Stiles Height 1.800 m | Number of Rails | Rails Sizes Pipe or Oval | Caps | Feet | Joining Lugs |
| LIGHT DUTY Panels  | 2.100 m | 40x40x RHS | 6 | 40x40x RHS | K40MSGB | K40MSGB | Flat Lugs |
| | Best for horses. Our most popular, cost-effective panel. Ideal for both Cattle or Horses (Gymkhanas) As with most other panels, these are capped both top and bottom. Look for special pricing on these popular panels. | | | | | | |
| 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 |
| | 3.370 m* | 32 NB Gal | 6 | 32 NB Gal | K32GB | K32GB | Flat Lugs |
| Very popular universal panels. 6 bar 32nb pipe, 2.25m x 1.8m and 3.37m x 1.8m. * Not always available as a stocked item. | | | | | | | |
| STUDMASTER® Panels  | 2.250 m | 50 NB Gal | 6 | 50 NB Gal | K50GB | K50GB | Flat Lugs |
| | 2.500 m | 50 NB Gal | 6 | 50 NB Gal | K50GB | K50GB | Flat Lugs |
| | 3.370 m* | 50 NB Gal | 6 | 50 NB Gal | K50GB | K50GB | Flat Lugs |
| Long-lasting sturdy panels, suit harsh conditions. 6 bar 50nb pipe, 2.25m x 1.8m, 2.5m x 1.8m and 3.37m x 1.8m * Not always available as a stocked item. | | | | | | | |
| PREMIER® Panels  | 2.100 m | 40x40x RHS | 6 | 53x35 RHS | K40MSGB | K40MSGB | Flat Lugs |
| | For protection from bruising, this panel utilises all the benefits of an oval rail and rounded edges. One of our most popular range of panels. Cost effective and easy to transport and erect anywhere. | | | | | | |
| CATTLE KING® Panels  | 2.250 m | 50x50 RHS | 5 | 115 x 42 | K50GB | K50GB | Flat Lugs |
| | 2.500 m | 50x50 RHS | 5 | 115 x 42 | K50GB | K50GB | Flat Lugs |
| | 3.100 m* | 50x50 RHS | 5 | 115 x 42 | K50GB | K50GB | Flat Lugs |
| Our top-of-the range panel. Withstands great pressure in forcing yards. * Not always available as a stocked item. | | | | | | | |

For items marked * please ask our staff for any alternative options.

All details correct at time of printing.

Yard Designs and Benefits

Designed with assistance from NSW Agriculture and QLD DPI.

Built strong for safety to stock and handlers

- takes advantage of natural instincts.

Proven over time to last in Australia's harsh rural conditions

- heavy duty quality pipe.

Manufactured to exact standards

- reduced treatment and drafting times.

Minimises bruising and injury

- no extruding posts.

- ease of operation.

Can be expanded or layout changed anytime

- extra high safety panels.

Designed with the experience of commercial reality

- easy to erect.

Yard Layout Designs

15C: Is 72.7 square metres. 15 head (20 head holding)

20C: Is 94 square metres. 20 head (40 head holding)

35C: Is 143 square metres. 35 head (80 head holding)

55C: Is 158 square metres. 55 head (100 head holding)

65C: Is 158.3 square metres. 65 head (100 head holding)

75C: Is 158 square metres. 75 head (120 head holding)

85C: Is 196.4 square metres. 85 head (125 head holding)

100C: Is 239 square metres. 100 head (160 head holding)

165C: Is 396.8 square metres. 165 head (280 head holding)

450C: Is 1025 square metres. 450 head (650 head holding)

800C: Is 1700 square metres. 800 head (1110 head holding)

30S: Is 89 square metres. 30 head (50 head holding)







90S: Is 210 square metres. 90 head (140 head holding)

150S: Is 355 square metres. 150 head (250 head holding)

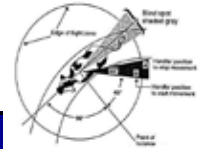
More designs available, we can design to suit your needs.

Metalcorp Steel Calf Equipment/Load Ramps



| Metalcorp Steel Calf Cradle, Calf Race and Loading Ramps | | |
|---|--|---|
|  | ◀ Calf Cradle Table Top/Roll over calf cradle. Adjustable flank bar. Reversible for near side and offside operation/branding. Baulk Gate included. SAP Look up details. GEN-CATTLE-CALF-CRADLE-PTD | |
| | SAP No. 185771 | |
| 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 | Calf Race ▶ |  |
| | SAP No. 203332 | |
| Advanatages of a Knock Down Loading Ramp Two-man Operation | | |
| Standard Features: 5 simple removable components. Easy two-person assembly. Sheeted sides to prevent leg capture. H/Duty Galv Pins for locking. Hardwood Timber Floor. Designed to suit all cattle yards. Savings on freight. | Photos for illustration. |  |
| 194830 - GEN-CATTLE-RAMP-KNOCK-DOWN-GAL-3000 | | |
|  | ◀ Deluxe Loading Ramp The Deluxe ramp is a 4.70metre fixed height ramp with a hardwood floor, a 1.3metre flat load section walkway with handrail and side access/block-off gate. Made in a unique pin-together style for ease of assembly and freight-reducing purposes. Full-length walkway with handrail — Hardwood floor with steel treads — Side access gate. Basic dimensions: Length 6000mm, Height 3300mm External width 800mm SAP Look up details: GEN-CATTLE-LOAD-RAMP-DELUXE-GAL | SAP No. 194831 |
| A 3.6metre 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. SAP Look up details: GEN-CATTLE-RAMP-ADJ-GAL-3600 | Adjustable Loading Ramp ▶ |  |
| | SAP No. 183854 | |
|  | ◀ Standard Loading Ramp This ramp is a 3metre fixed-height ramp with a steel floor; designed for smaller yard systems or basic loading and unloading from truck height. Special features include a hardwood floor. Sheeted sides to 500mm, top section uses cattle rail. Basic dimensions: Length 2770mm, Height 3250mm, External base 800mm. SAP Look up details: GEN-CATTLE-LOAD-RAMP-STANDARD-GAL | SAP No. 194832 |

Building Cattle Yards & Components



| Building Cattle Yards & Components | |
|---|---|
|  | <p>Pipes: We can supply you either black or galvanised in a range from 15NB to 150NB. Some stock sizes may be in 7.200m lengths that will help minimise wastage. Please call your local branch to check the stock availability.</p> |
|  | <p>RHS: We can supply you all your rolled hollow sections in a range from 20 x 20mm to 400 x 400mm if needed and the respective rectangular sizes. The majority of RHS sizes used in a cattle yard construction would be 40 x 40mm to 65 x 65mm.</p> |
|  | <p>Cattle Rail Oval Section: We can supply you the range of these sections which aid in the reduction of bruising to valuable cattle. The popular size is the 115 x 42mm while other sizes may be available. Some sizes, however, may require a minimum order requirement. The image is for illustration purpose only.</p> |
|  | <p>Round Gal. Caps: We can supply you with a full range of Gal. round caps. These may be supplied in Galvabond and is the preferred option to cap both top and bottom of a cattle panel stile or post. The range is from 20 NB to 150 NB. The image is for illustration purpose only.</p> |
|  | <p>Square Gal. Caps: We can supply you with a full range of Gal. square caps. Square cattle panel stiles or post can be capped both top and bottom with these caps. The range is from 20 x 20 mm to 150 x 150 mm.. The image is for illustration purpose only.</p> |
|  | <p>Joining Lugs: There are many variations to the type of joining lugs. We have continued with the use of a flat lug. These lugs suit both Pipe construction and RHS or Box section style cattle panels designs. Other joining lugs may be sourced from a variety of suppliers. The image is for illustration purpose only.</p> |
|  | <p>Cattle Yard Pins: We have standardised on this one pin which is readily available in a galvanised condition. While the pin is 16mm in diameter, pins from another supplier may vary in dimensions. The image is for illustration purpose only.</p> |
|  | <p>Hinges: Through close contact with various suppliers, we have been able to source a reliable supply of weld-on hinges. The 20mm diameter hinge is of most interest as these can be supplied with a "safety" pin. This "R" shaped pin secures the hinge and does not allow it to be lifted off by the raising of the cattle's head.</p> |
|  | <p>Chains: We have been able to source a 6mm long link zinc-plated chain, which can be supplied in drums. Again, this has been a standardised item for all cattle yard components. The image is for illustration purpose only.</p> |
|  | <p>Latch Plates: Latch plates are used to secure a swinging gate and the chain used must find the keeper easily. We can supply you with a variety of commercially made latch plates or offer to supply you with a suitable size flat mild steel or maybe a plate section from which you can cut your own style of latch plates.</p> |
|  | <p>Slam Catches: When manufacturing a manway gate or side openings on a crush, it is a good idea to use a latching mechanism that you know will close positively, the first and every time. These labour-saving items vary from each supplier and we can guide you towards the one that suits your needs the most. The image is for illustration only.</p> |
|  | <p>Rollers: When building a range of slide gates for whatever application, nylon rollers are a good, reliable way of having the sliding part of the gate run smoothly. It is important that the products that make the least amount of noise in a cattle yard, help to keep the cattle calm. The image is for illustration purpose only.</p> |



Spear Traps & Alternate Yarding Options

Spear Traps

◀ Spear Trap

These 4 arm or 5 arm spear traps are generally used to trap cattle on large properties where mustering can be an issue with location, or the area has been too wet to muster.

Spear Trap — 4 arm.

Spear Trap — 5 arm.

Each comes fitted with panel lugs for inclusion into any yard..

Manufactured from galvanised, high-strength steel, RHS.



GEN-CATTLE-SPEAR-TRAP-4ARM

SAP No. 188561



Spear Trap ▶



GEN-CATTLE_SPEAR_TRAP-5ARM

SAP No. 20317

Alternate Yarding Fence Options

Electric Fencing

An ELECTRIC Fence is a barrier that uses electric shocks to deter animals from crossing a boundary.

Fence Energisers may be designed for mains operation, battery or Solar battery operations depending on the area to be fenced and the remoteness of its location.

The smooth steel electrified fence wires must be insulated to avoid any short outs. Handles, gates and insulated posts are essential items.



Second Grade Pipe

As the name suggests, this material is not to the standard where it may be sold as prime stocks.

Yards made from second grade pipe may have a mixture of black or galvanised finish and may also need to be welded together due to the lengths and overall finish of the pipe sections.

These pipes may be from the start up of a mill run and have split or open seams as well as the end of the run may produce lengths shorter than the required. Caps are supplied from 20NB to 150NB.



Cattle Cable

The superior strength of galvanised cattle cable for yard options is one of the benefits of using this material. Often sold as a 7 strand, 2.75mm wire forming a solid 8.25mm cable.

Using this form of fencing, use may be made of the local timber for posts. The cable must be starined and the use of turnbuckles and permanent strainers may be a consideration.

This cable is often supplied on wooden reels and lengths of 400m.



Second Grade RHS Section

This material is the same as the second grade pipes.







These sections may be out of square, have split, open or butterfly seams and cut outs in the sections where sample pieces may have been taken during mill production.

Yards made using this material may need to be welded together as the pipe yards.

Square caps can be supplied from 20x20mm to 150x150mm and also in rectangles.



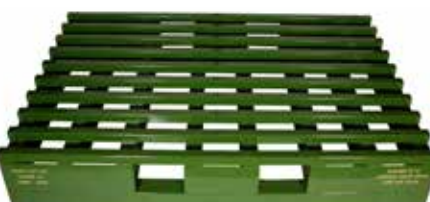




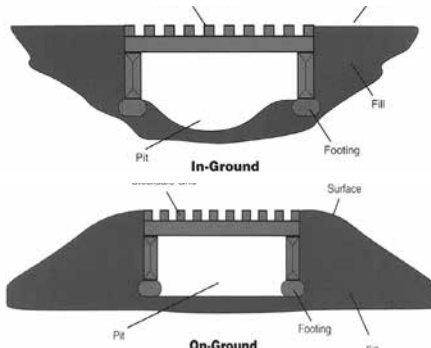
Metalcorp Steel Rural Crushes & Headbails

| Metalcorp Steel Rural Crushes & Headbails | | | | | |
|---|---|--|---|---|---|
|  | ◀ CLASSIC® Crush | | The Metalcorp Steel CLASSIC® Crush is Australia's most popular parallel squeeze crush. It is ideal for the 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, Vet area, Front & rear operation, split working gates on both sides, suitable for all veterinary procedures. | | |
| | 194802 | Length 3050mm. | Height 2200mm. | Base width 820mm. | 732 kg |
| | ◀ Bullockmaster® Crush | | approx 568 kg | | |
| | All the popular features of the CLASSIC® Crush but has only a single sided squeeze. | | | | |
| 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: | | | | | |
| Made from Australian steel | | Fits most brands of scales | | | |
| Low maintenance | | Designed for the safety of both farmer and animal | | | |
| Minimise bruising | | Optional anti-backing bar, baulk gate and off side | | | |
| Length 3100mm. | Height 2200mm. | Base width 800mm. | 155761 | 510 kg | |
|  | ◀ FARMHAND® Crush | | The FARMHAND crush is suited to both the large and small farmer who does not require repetitive veterinary operations, such as pregnancy testing, and would ideally suit the Back Grounder or the Bullock Fattener or can be used as a general purpose crush on both beef and dairy properties. Standard features: Australian made from Australian steel Designed to minimise bruising Designed for the safety of the farmer and the animal. Low maintenance All gates fitted with slam catch latches Fits most brands of scales | | |
| | 150715 | Length 3060mm. | Height 2200mm. | Base width 800mm. | 500 kg |
| | HOBBYMASTER® Crush ▶ | | | | |
| | Designed with the latest innovation and safety features for both operator and beast, this crush is a stand out in its field. The standard chin bar makes it the complete all-round basic package. | | |  | |
| Standard features: | | | | | |
| Galvanised construction | | Innovative silent operation | | | |
| Sheeted head bail & bottom side gates | | Chin Bar standard | | | |
| Auto Lock rear sliding gate | | Also available with vet area | | | |
| Patented safety handle front & rear | | (Photos may be for illustration purposes only) | | | |
| Length 2530mm. | Height 2200mm. | Base width 800mm. | 172232 | 300 kg | |
|  | ◀ HOBBYMASTER® Headbail | | FARMHAND® Headbail ▶ | |  Photo may be for illustration. |
| | Designed for the budget conscious and suits quieter cattle. | | This unit is light and easy to operate. Features include: | | |
| | Features include: | | Headlifter | | |
| | 50 x 50 x 2 RHS on frame | | 50 x 50 x 2 RHS frame | | |
| Welds and black steel coated with zinc rich primer | | 60 x 48 bailarms with | | | |
| 3 mm plate baffles | | 3 mm plate baffles | | | |
| Drop away handles | | Superlock mechanism with drop away handles | | | |
| 194826 GEN-CATTLE-HEAD-BAIL-HOB* | | Optional offside operation | | GEN-CATTLE-HEAD-BAIL-FARM* 155760 | |
| CLASSIC® Headbail ▶ | | 181599 GEN-CATTLE-HEAD-BAIL-CLAS-GAL | | No photo of product shown. | |



STOCKSAFE® Cattle Grids

| STOCKSAFE® Cattle Grids | | INSTALLATION | |
|---|--|--|--|
| STOCKSAFE® Unrated Light Duty Cattle Grid | | <p>Installing a STOCKSAFE® access grid is quick and easy. There are two installation options. Above Ground or In-Ground.</p> <ul style="list-style-type: none">• Pit: The pit should be deep enough to allow for drainage and ease of cleaning. Silt build up will occur over time.• Footing: A firm compacted footing is required for both in-ground and above-ground installations. Depending on ground conditions, a compacted base is generally more than satisfactory, however if in doubt, a concrete footing should be installed.• Surface: 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.• Fill: compaction of filled area is critical to successful grid installations and ultimately, the grid life. | |
|  | <p>Standard Size: 4.0m x 2.0m</p> <p>Standard material: Painted or Galvanised Downgrade. NB. Some products may vary.</p> <p>Standard Finish: Painted Red.</p> <p>Top Rails: 65mm x 65mm x 4.0mm.</p> <p>Bearers: 125mm x 125mm x 5.0mm.</p> <p>Base Rails: 125mm x 125mm x 5.0mm.</p> <p>Approximate height: 315mm.</p> | | |
| STOCKSAFE® Unrated Heavy Duty Cattle Grid | | | |
|  | <p>Standard Size: 4.0m x 2.0m</p> <p>Standard material: Painted or Galvanised Downgrade. NB. Some products may vary.</p> <p>Standard Finish: Painted Blue.</p> <p>Top Rails: 65mm x 65mm x 5.0mm.</p> <p>Bearers: 250mm x 150mm x 4-6.0mm.</p> <p>Base Rails: 250mm x 150mm x 4-6.0mm.</p> <p>Approximate height 465mm.</p> | | |
| STOCKSAFE® Highway Rated Cattle Grid | | | |
|  | <p>Standard Sizes: 4.0m x 2.0m/ 4.0m x 2.5m.</p> <p>Standard material: Painted Prime Stock.</p> <p>Standard Finish: Painted Green.</p> <p>Optional Finish: Hot Dipped Galvanised.</p> <p>Top Rails: 75mm x 75mm x 6.0mm.</p> <p>Bearers: 250mm x 150mm x 5.0mm.</p> <p>Base Rails: 250mm x 150mm x 5.0mm.</p> <p>Approximate height 475mm.</p> | | |
| STOCKSAFE® Heavy Shaker Grid | | | |
|  | <p>Standard Size: 4.0m x 2.0m</p> <p>Standard material: Painted or Galvanised Downgrade.</p> <p>Standard Finish: Painted Blue or Galvanised.</p> <p>Top Rails: Alternate 50mm x 50mm / 75mm x 75mm.</p> <p>Bearers: 250mm x 150mm x 5.0mm.</p> <p>Base Rails: 250mm x 150mm x 5.0mm.</p> | | |
| Photo for illustration purposes. | | | |
| Grid Wings | | | |
|  | <p>All STOCKSAFE® grids are manufactured with mounting brackets for side wings. Wing sets are available as an optional extra. Standard Wings constructed with two rails of W-Strap.</p> <p>CATTLE KING® Wings constructed with three rails of Cattle Rail.</p> | | |



The diagram illustrates two installation methods for a heavy shaker grid. The 'In-Ground' method shows the grid being set into a pit, resting on a footing, with the surrounding area filled. The 'On-Ground' method shows the grid being placed on top of a footing, with the area around it filled. Labels include 'Pit', 'In-Ground', 'Footing', 'Surface', 'On-Ground', and 'Fill'.

Please ensure adequate lifting equipment is available when receiving your grid.

NB. We reserve the right to produce grid sub-frame from RHS, U-Beams, U-Columns or similar products. The overall height may therefore vary.

Goat and Sheep Components



Sheep and Goat Catcher or Metalcorp Steel Three-Way Sheep Draft V-Race



Sheep and Goat Catcher

Table Top/Roll over calf cradle.

Adjustable flank bar.

Reversible for near side and offside operation/branding.

Reversible for near side and offside operation/branding.

Use for foot trimming, crutching, mouthing, preg testing, etc.

SAP Look up details.

GEN-CATTLE-CALF-CRADLE-PTD

SAP No. 185771



Metalcorp Steel 3-Way Sheep Draft V-Race

Most yards come standard with a 3-Way drafting box at the end of a race.

This is weigh-crate compatible. Gates are 7 rail and the previous panel adjusts to ensure single-file approach. The block gate swings completely out of the way when not in use.

This 3-Way draft box is a real time saver as it enables effective drafting immediately after mouthing, classing etc. It is infinitely better than a simple swing gate. The draft box can be relocated closer to the front of the race if a separate 3-Way drafting race is not justified.

(The box can be deleted if not required and replaced with panels).

3-Way Draft Features

Galvanised construction made to last — Sheeted sides

Gates designed for ease of use — 60cm width, 4m length

Suits all Metalcorp Sheep Panels



FLOCKMASTER® & SHEEPMASTER® Sheep Yard Components



SHEEPMASTER® 25nb, 1.1m high



FLOCKMASTER® 20nb, 1.0m high

Hot Dipped Galvanised Pipe for added protection
Panels can be used in Permanent or Portable applications.
Lamb proof rail spacing. Handy lugs for ground pinning.

Rails are safety edge W-Strap (except in Queensland)

Available in lengths of 2.2m, 2.45m and 3.3m



Race Bow
60cm wide
by 1.0m high



Gate in Frame
2.5m wide by 1.1m high
Handy "No Chain" locking system
Both Gates have Self supporting frame



Manway Gate
60cm wide by
1.0m high



Open Manway
Gate



Corner of
Sheep Yard



Sheepyard Mesh — Galvanised
6.0mx0.900m and 6.0mx1.100m

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

Building Your Sheep Yard Options



Building Sheep Yards and Options



This yard layout has been built to the size 16.0m x 21.0m.

Ask how we can supply you.



RHS: These permanent yards have been built using 50 x 50mm inline Gal. steel posts for durability. We can supply your RHS needs in either Painted or inline Gal. finish. Supplied in stock lengths of 8.0 m or cut to size (in this case 1650 mm long). For maximum strength, the posts have been cemented at 1500mm centres.



Square Gal. Caps: We can supply you with a full range of Gal. square caps. Square cattle panel stiles or posts can be capped both top and bottom with these caps. The range is from 20 x 20mm to 150 x 150mm. The image is for illustration purposes only.



W - Strap: This versatile product may be supplied in either black (uncoated) or a Gal. finish. The widths may be supplied in 7", 9" or 11" widths with 7" wide being the most popular size overall. For the gentle curves, this product can be easily adapted as shown in the example above. We may stock this product or supply direct from the supplier.



TEK Screws: These screws may come in varying lengths and thicknesses and are often supplied as a bag of 1000. With adapters fitting most drills, these self-drilling screws easily drill through the thickness of the 50 x 50mm posts.



Slam Catch: This style of slam catch allows the gate operator to grasp the handle above the fence. This is a safety function as the gate cannot close or jam on the operator's hands. We may stock this product as part of our overall livestock components. The image is for illustration purposes only.



Hinges: Through close contact with various suppliers, we have been able to source a reliable supply of weld on hinges. The 20mm diameter hinge is of most interest as these can be supplied with a "safety" pin. This "R" shaped pin secures the hinge and does not allow it to be lifted off. The image is for illustration purposes only.



Three-Way Sheep Draft: Can easily be incorporated and, in fact, may be an essential unit in the yard design. Used to separate lambs and ewes, this is one of our most popular sales units for sheep yards. The sheet-sided VEE race controls the sheep inline and the gates have handles well out of the way for added safety.



Welding Rods: In some cases the builder may want to weld the W-Strap to posts and gate frames. We stock the most popular sizes of electrodes and mig wires for the DIY enthusiast. Other items that you may require are gloves, welding helmets, chipping hammers, wire brushes and zinc-enriched touch-up paints in the spray cans.



Post Mix Concrete: A post hole digger and a powered auger may help speed up the overall installation. The image is for illustration purposes only.

These yards are a proven design. The materials that you require may be different.




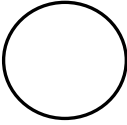

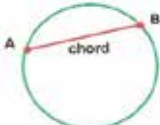
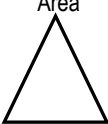




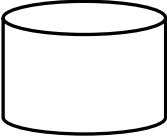



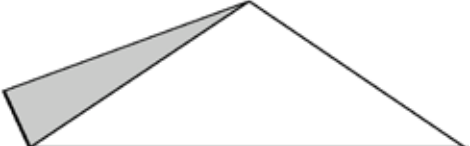

Permanent yards may have benefits over a portable yard system.



How Can I Calculate that?

How to Calculate 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  | $A (m) \times B (m) = \text{Square metres.}$ $A (m) \times B (m) = \text{Square metres.}$ $A (m) \times B (m) \times H (m) = \text{Cubic metres.}$  |
| 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  | $D (m) \times (Pi) = \text{metres.}$ $(R^2) \times (Pi) = \text{Square metres.}$ $A (m) \times R/2 = \text{Square metres.}$  |
| π (Pronounced Pi) = 22 divided by 7 or (3.142858) | | | |
| Triangles | Area  | Base/2 x Height  | $B/2 (m) \times H = \text{Square metres.}$  |
| Ellipse Ellipse Such a shape is a Petrol Tanker. | Area Volume  | Long axis x Short axis x 0.7854 Long axis x Short axis x 0.7854 x L  | $D1 (m) \times D2 (m) \times 0.7854 = \text{Square metres.}$ $D1 (m) \times D2 (m) \times 0.7854 \times L (m) = \text{Square metres.}$ |
| Cylinder Cylinder Such a shape is a storage tank. | Area Volume  | Circumference of base x Height Area of base x Height | $D (m) \times (Pi) \times H (m) = \text{Square metres.}$ $(R^2) \times (Pi) \times H (m) = \text{Cubic metres.}$  |
| Sphere Sphere Now to work out the area of the world. | Area Volume  | Diameter x Diameter x (Pi) Diameter x Diameter x Diameter x 0.5236 | $D (m) \times D (m) \times (Pi) = \text{Square metres.}$ $D (m) \times D (m) \times D (m) \times 0.5236 = \text{Cubic metres.}$  |
| Pyramid Pyramid Maybe the Egyptian pyramids? | Area Volume  | Perimeter of base x Slant Height/3 Area of base x Vert Height/3 | $(A (m) + B (m) \times 2 \times \text{Slant height})/3 = \text{Square metres.}$ $(A (m) \times B (m) \times H (m))/3 = \text{Cubic metres.}$  |

Conversion Tables



| Length — Fraction of inches/mm | | | | Length — cms/inches/cms | | | | Mass — kilos/pounds/kilos | | | |
|--------------------------------|---------|---------|---------|-------------------------|-------------|-------------|------------------|---------------------------|----------|----------|-------------|
| inches | mm | inches | mm | centimetres (cm) | inches (in) | inches (in) | centimetres (cm) | kilogram kg | pound lb | pound lb | kilogram kg |
| 1/32 | 0.7938 | 7/8 | 22.2250 | 1 | 0.3937 | 1 | 2.54 | 1 | 2.205 | 1 | 0.4536 |
| 1/16 | 1.5875 | 29/32 | 23.0188 | 2 | 0.7874 | 2 | 5.08 | 2 | 4.409 | 2 | 0.9072 |
| 3/32 | 2.3813 | 15/16 | 23.8125 | 3 | 1.1810 | 3 | 7.62 | 3 | 6.614 | 3 | 1.361 |
| 1/8 | 3.1750 | 31/32 | 24.6063 | 4 | 1.5750 | 4 | 10.16 | 4 | 8.818 | 4 | 1.814 |
| 5/32 | 3.9688 | 1.0 | 25.4000 | 5 | 1.9690 | 5 | 12.70 | 5 | 11.02 | 5 | 2.268 |
| 3/16 | 4.7625 | 1 1/32 | 26.1938 | 6 | 2.3620 | 6 | 15.24 | 6 | 13.23 | 6 | 2.722 |
| 7/32 | 5.5563 | 1 1/16 | 26.9875 | 7 | 2.756 | 7 | 17.78 | 7 | 15.43 | 7 | 3.175 |
| 1/4 | 6.3500 | 1 3/32 | 27.7813 | 8 | 3.1500 | 8 | 20.32 | 8 | 17.64 | 8 | 3.629 |
| 9/32 | 7.1438 | 1 1/8 | 28.5750 | 9 | 3.5430 | 9 | 22.86 | 9 | 19.84 | 9 | 4.082 |
| 5/16 | 7.9375 | 1 5/32 | 29.3688 | 10 | 3.9370 | 10 | 25.40 | 10 | 22.05 | 10 | 4.536 |
| 11/32 | 8.7313 | 1 3/16 | 30.1625 | 50 | 19.690 | 50 | 127.0 | 50 | 110.2 | 50 | 22.68 |
| 3/8 | 9.5250 | 1 7/32 | 30.9563 | 100 | 39.370 | 100 | 254.0 | 100 | 220.5 | 100 | 45.36 |
| 13/32 | 10.3188 | 1 1/4 | 31.7500 | Length — kms/miles/kms | | | | Mass — tonnes/tons/tonnes | | | |
| 7/16 | 11.1125 | 1 9/32 | 32.5438 | kilometre (km) | miles | miles | kilometre (km) | tonnes t | tons T | tons t | tonnes T |
| 15/32 | 11.9063 | 1 5/16 | 33.3375 | 1 | 0.6214 | 1 | 1.609 | 1 | 0.9842 | 1 | 1.016 |
| 1/2 | 12.7000 | 1 11/32 | 34.1313 | 2 | 1.243 | 2 | 3.219 | 2 | 1.968 | 2 | 2.032 |
| 17/32 | 13.4938 | 1 3/8 | 34.9250 | 3 | 1.864 | 3 | 4.828 | 3 | 2.953 | 3 | 3.048 |
| 9/16 | 14.2875 | 1 13/32 | 35.7188 | 4 | 2.485 | 4 | 6.437 | 4 | 3.937 | 4 | 4.064 |
| 19/32 | 15.0813 | 1 7/16 | 36.5125 | 5 | 3.107 | 5 | 8.047 | 5 | 4.921 | 5 | 5.080 |
| 5/8 | 15.8750 | 1 15/32 | 37.3063 | 6 | 3.728 | 6 | 9.656 | 6 | 5.905 | 6 | 6.096 |
| 21/32 | 16.6688 | 1 1/2 | 38.1000 | 7 | 4.350 | 7 | 11.27 | 7 | 6.889 | 7 | 7.112 |
| 11/16 | 17.4625 | 1 17/32 | 38.8938 | 8 | 4.971 | 8 | 12.87 | 8 | 7.874 | 8 | 8.128 |
| 23/32 | 18.2563 | 1 9/16 | 39.6875 | 9 | 5.592 | 9 | 14.48 | 9 | 8.858 | 9 | 9.144 |
| 3/4 | 19.0500 | 1 19/32 | 40.4813 | 10 | 6.214 | 10 | 16.09 | 10 | 9.842 | 10 | 10.16 |
| 25/32 | 19.8438 | 1 5/8 | 41.2750 | 50 | 31.07 | 50 | 80.47 | 50 | 49.21 | 50 | 50.80 |
| 13/16 | 20.6375 | 1 21/32 | 42.0688 | 100 | 62.14 | 100 | 160.90 | 100 | 98.42 | 100 | 101.60 |
| 27/32 | 21.4313 | 1 11/16 | 42.8625 | Pressure — psi/MPa/psi | | | | Pressure — psi/MPa/psi | | | |
| lb/f — newtons | | | | psi | MPa | MPa | psi | psi | MPa | MPa | psi |
| lb/f | N | lb/f | N | 1 | 0.0069 | 0.1 | 14.5 | 1500 | 10.34 | 6.0 | 870.2 |
| 1 | 4.45 | 80 | 355.9 | 50 | 0.3447 | 0.2 | 29.01 | 1600 | 11.03 | 6.5 | 942.7 |
| 2 | 8.90 | 90 | 400.3 | 100 | 0.6895 | 0.3 | 43.51 | 1700 | 11.72 | 7.0 | 1015 |
| 3 | 13.34 | 100 | 445 | 200 | 1.379 | 0.4 | 58.02 | 1800 | 12.41 | 8.0 | 1160 |
| 4 | 17.79 | 200 | 990 | 300 | 2.068 | 0.5 | 72.52 | 1900 | 13.10 | 9.0 | 1305 |
| 5 | 22.24 | 300 | 1334 | 400 | 2.758 | 0.6 | 87.02 | 2000 | 13.79 | 10.0 | 1450 |
| 6 | 26.69 | 400 | 1779 | 500 | 3.447 | 1.0 | 145.0 | 2100 | 14.48 | 11.0 | 1595 |
| 7 | 31.14 | 500 | 2224 | 600 | 4.137 | 1.5 | 217.6 | 2200 | 15.17 | 12.0 | 1740 |
| 8 | 35.59 | 600 | 2669 | 700 | 4.826 | 2.0 | 290.1 | 2300 | 15.86 | 13.0 | 1885 |
| 9 | 40.03 | 700 | 3114 | 800 | 5.516 | 2.5 | 362.6 | 2400 | 16.55 | 14.0 | 2031 |
| 10 | 44.50 | 800 | 3559 | 900 | 6.205 | 3.0 | 435.1 | 2500 | 17.24 | 15.0 | 2176 |
| 20 | 89.00 | 900 | 4003 | 1000 | 6.895 | 3.5 | 507.6 | 2600 | 17.93 | 16.0 | 2321 |
| 30 | 133.40 | 1000 | 4450 | 1100 | 7.584 | 4.0 | 580.2 | 2700 | 18.62 | 17.0 | 2466 |
| 40 | 177.90 | 2000 | 8890 | 1200 | 8.274 | 4.5 | 652.7 | 2800 | 19.31 | 18.0 | 2611 |
| 50 | 222.40 | 3000 | 13340 | 1300 | 8.963 | 5.0 | 725.2 | 2900 | 19.99 | 19.0 | 2756 |
| 60 | 266.90 | 4000 | 17790 | 1400 | 9.653 | 5.5 | 797.7 | 3000 | 20.68 | 20.0 | 2901 |
| 70 | 311.40 | 5000 | 22240 | | | | | | | | |



Birmingham Sheet Gauge Converter



Quick Tips!

| Birmingham Sheet Gauge Converter | | | | |
|----------------------------------|----------------------|---------------------|------------------------|--------------------|
| Size in inches | Decimal equiv inches | Thickness approx mm | Birmingham Gauge (B.G) | Inch Equiv to B.G. |
| 3/8 | 0.3750 | 10.0 | 0 | 0.3964 |
| | 0.3543 | 9.0 | 1 | 0.3532 |
| 5/16 | 0.3125 | 8.0 | 2 | 0.3147 |
| | 0.2756 | 7.0 | 3 | 0.2804 |
| 1/4 | 0.2500 | 6.0 | 4 | 0.2500 |
| | 0.2165 | 5.5 | 5 | 0.2225 |
| 3/16 | 0.1875 | 5.0 | 6 | 0.1981 |
| | 0.1772 | 4.5 | 7 | 0.1764 |
| 5/32 | 0.15625 | 4.0 | 8 | 0.1570 |
| | 0.1378 | 3.5 | 9 | 0.1398 |
| 1/8 | 0.1250 | 3.0 | 10 | 0.1250 |
| | 0.1102 | 2.8 | 11 | 0.1113 |
| 3/32 | 0.09375 | 2.5 | 12 | 0.0991 |
| | 0.0866 | 2.2 | 13 | 0.0882 |
| 5/64 | 0.078125 | 2.0 | 14 | 0.0785 |
| | 0.0709 | 1.8 | 15 | 0.0699 |
| 1/16 | 0.0625 | 1.6 | 16 | 0.0625 |
| | 0.0551 | 1.4 | 17 | 0.0556 |
| 3/64 | 0.046875 | 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 |
| 1/32 | 0.03125 | 0.80 | 22 | 0.0313 |
| | 0.0276 | 0.70 | 23 | 0.0278 |
| | 0.0236 | 0.60 | 24 | 0.0247 |
| | 0.0217 | 0.55 | 25 | 0.0220 |
| | 0.0197 | 0.50 | 26 | 0.0196 |
| | 0.0177 | 0.45 | 27 | 0.0174 |
| 1/64 | 0.015625 | 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 | 0.0038 |

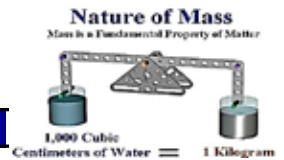
This is a numbering system for sheet metal gauge (thickness).

| 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 for steel plate sections | |
| Mass = t x 7.850 x (L x W) | |
| where: Mass = mass/metre ² | (kg/m ²) |
| 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 for 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 Number | 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 - HDG300 | Hot-dip galvanized (zinc) coatings on 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. |

Australian Standards are from Standards Australia.

Mass Densities of Some Materials



The Mass Density of Some Materials

Densities of Some Metals and Alloys

Density of Some Common Materials

While the data is useful for the design and selection of bulk materials handling plant, bulk transport and packaging, individual samples will differ. Moisture content will have a marked influence.

| Material | kg/m ³ |
|--------------------------|-------------------|
| Admiralty Brass | 8525 |
| Aluminium — rolled. | 2712 |
| Bitumen — prepared. | 1362 |
| Barium | 3594 |
| Beryllium | 1840 |
| Beryllium copper | 8100 — 8250 |
| Brass — casting | 8400 — 8700 |
| Brass — rolled and drawn | 8430 — 8730 |
| Bronze — lead | 7700 — 8700 |
| Bronze — phosphorous | 8780 — 8920 |
| Cadmium | 8640 |
| Cast iron | 6800 — 7800 |
| Chromium | 7190 |
| Cobalt | 8746 |
| Copper | 8940 |
| Cupronickel | 8908 — 8940 |
| Gold | 19320 |
| Iron | 7850 |
| Lead | 11340 |
| Light alloy based on Al | 2560 — 2800 |
| Light alloy based on Mg | 1760 — 1870 |
| Magnesium | 1738 |
| Manganese | 7440 |
| Manganese Bronze | 8359 |
| Mercury | 13593 |
| Molybdenum | 10188 |
| Nickel | 8908 |
| Phosphor bronze | 8900 |
| Platinum | 21400 |
| Plutonium | 19816 |
| Red Brass | 8746 |
| Silver | 10490 |
| Stainless Steel | 7480 — 8000 |
| Steel | 7850 |
| Tin | 7280 |
| Titanium | 4500 |
| Tungsten | 19600 |
| Uranium | 18900 |
| Vanadium | 5494 |
| Wrought Iron | 7750 |
| Zinc | 7135 |
| Zirconium | 6570 |
| Yellow Brass | 8470 |

| Material | kg/m ³ |
|-------------------------------------|-------------------|
| Air | 1.20 |
| Arsenic | 5671 |
| Asbestos — shredded | 320 — 400 |
| Asphalt — crushed | 721 |
| Brick — common red | 1920 |
| Benzene | 900 |
| Blood | 1600 |
| Carbon, solid | 2146 |
| Carbon Dioxide | 1.98 |
| Cement — Portland | 1506 |
| Cement — mortar | 2162 |
| Chalk — solid | 2499 |
| Coal, Anthracite — solid | 1506 |
| Coke | 570 — 650 |
| Concrete — Gravel | 2400 |
| Earth — packed | 1520 |
| Ethanol | 810 |
| Glycerin | 1260 |
| Glass — window | 2580 |
| Granite — solid | 2691 |
| Ice — solid | 919 |
| Ivory | 1842 |
| Manure | 400 |
| Marble — solid | 2560 |
| Mineral Fibre fibreglass Insulation | 32 |
| Mud — packed | 1906 |
| Oil — Petroleum | 881 |
| Expanded Polystyrene Insulation | 24 |
| Porcelain | 2400 |
| Potash | 1281 |
| Rubber — Manufactured | 1522 |
| Seawater (Saltwater) | 1030 |
| Sand — dry | 1600 |
| Slate — solid | 2691 |
| Snow — compacted | 480 |
| Snow — freshly fallen | 160 |
| Stone — crushed | 1602 |
| Sodium | 970 |
| Sulphur — solid | 2002 |
| Tar | 1150 |
| Turpentine | 865 |
| Water | 1000 |
| Wool | 1310 |

As 1000kg of pure water = 1 cubic metre, those materials under 1000kg/cu.m will float; more dense will sink

Note, kg/cu.m divided by 16.02 = lbs/cu.ft



Common Metallurgical Terms

Common Metallurgical Terms

| | |
|------------------------|---|
| ABRASION RESISTANCE | Resistance to frictional rubbing, as distinct from a resistant to knocks and impacts. |
| ANNEALING | <p>A process involving heating and cooling, applied usually to induce softening of a specified steel item.</p> <p>The term is also used to cover treatment to:</p> <ul style="list-style-type: none">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 | <p>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.</p> <p>This phenomenon normally occurs after long exposure to sunlight.</p> |
| COLD ROLLING | <p>Is the reduction of hot-rolled pickled steel strip to a specified thickness, using a series of stands of rolls.</p> <p>This distorts the grain structure of the steel and also the loss of ductility.</p> |
| 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. |
| GALVANISING | <p>The process of applying a coating of zinc to a surface of iron or steel to provide a corrosion-resistant surface.</p> <p>Zinc coating may be applied by hot dipping or by electroplating.</p> |
| GLOSS | <p>The degree to which a painted surface possesses the property of reflecting light in a mirror-like manner.</p> <p>COLORBOND® steel prepainted surfaces are produced in a 10%, a 25% and an 80% gloss level.</p> |
| 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 | <p>Lustre finish is a smooth finish for electroplating achieved by using specially prepared rolls.</p> <p>Some surface preparation by the plater might be necessary.</p> |
| MATT | <p>Cold-rolled products are available with either a matt or lustre finish.</p> <p>The matt finish is produced by rolling with mechanically roughened rolls.</p> |

These details courtesy of the LYSAGHT Referee.

Common Metallurgical Terms (Cont.)



| Common Metallurgical Terms | |
|----------------------------|---|
| MECHANICAL PROPERTIES | Properties relating to the behaviour of materials under load in conventional mechanical tests, such as elastic moduli, tensile strength, elongation and hardness. |
| NORMALISING. | 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 rolled 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 recrystallisation 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, steel products. |
| YIELD POINT | The stress at which a material is permanently deformed |
| YIELD STRENGTH | The strength at which steel first exhibits plastic strain. |



Abrolhos Steel
9 Beaver Street
Webborton
Western Australia 6530