

Aluminium Handbook and Stock Availability

metal for hi-tec applications



metalweb

Aluminium handbook

and Stock Availability

metalweb provide a comprehensive metals service direct to hi-tech industries. Our focus and concentration on selected chosen markets means that our service can be tailored to meet your specific needs.

Materials

- Aluminium Alloys
- Steels
- Titanium
- Nickel Alloys
- Yellow Metals
- Plastics

Products

- Plate and sheet
- Tooling plate including cast, mould and rolled
- Round, square, flat and hexagon bars
- Tubes and other extruded shapes
- Plate circles and plate rings
- Forgings

Services

- Cutting – both plate and barsaw
- Waterjet profiling
- Guillotining
- Milling
- Drilling
- Finishing
- Kit Assembly
- Just-in-Time

www.metalweb.co.uk



metalweb introduction

What makes us different? We deliver long-term tangible benefits which enable our customers to compete in today's challenging global market place.

The Benefits of Using metalweb

metalweb offer its customers a range of tangible benefits which include:

- Saving time by delivering the right product on time
- Saving money through directly lower input costs
- Saving space through holding significant stocks at its own warehouses
- Reducing risks by supplying quality products from proven sources of supply
- Providing access to the widest metallic product range of stock by any stockholder in the world saving you time from searching anywhere else for what you require
- Providing access to aerospace and other hi-spec materials including US specific materials, grades and tempers saving time and money from using other sources

But don't just take our word for it. Here are some excerpts from the metalweb customer survey:

"Wide range of product available through Reliance Group Association."

"Very good supplier performance. Highly rated on our internal supplier performance questionnaire."

"metalweb are one of the few suppliers who we can trust to provide aerospace quality materials with no issues on quality delivery or certification."

"Easy to deal with, friendly staff, good range of material available from stock... certainly more reliable than other suppliers."

"Very friendly sales team."

"Very satisfied with overall performance."

About metalweb

metalweb was established in 2001 and has successfully grown by serving customers across a range of high technology industries. metalweb's focus is on providing a high quality service to its customers. We achieve this by a process of continuous improvement, business vision and a total dedication to achieving excellent levels of service. Our goal is to make a competitive difference for our customers by working with them, and often this means gaining a total understanding of their business, their thinking and their goals. As a result the majority of metalweb's business is built on long-term partnerships providing mutually beneficial outcomes for both parties. In addition metalweb provide a 'spot service' for those customers looking to purchase their short-term material requirements.

metalweb has the largest and widest range available of commercial aluminium alloy stock in the UK market. 1050, 2014, 2024, 5083, 6061, 6063, 6082, 7075 alloys are all kept in stock in large quantities across a range of product types and sizes. In addition a number of specialist alloys are also stocked, together with customer specific shapes and sizes, for example as part of our dedicated extrusion service.

metalweb has an extensive range of processing equipment operated by fully trained technicians. We can therefore provide first stage processing for our customers – and this allows them to concentrate on their chosen activities. We can 'cut-to-size' across all types of aluminium forms and alloys, and our range of specialist equipment includes the ability to:

- Cut aluminium bar to very close tolerances
- Cut very thick aluminium plate
- Specialist cutting of circles and rings
- Cutting of complex shapes to a tight tolerance on our Waterjet cutter

metalweb has a global network of supplier relationships and can source any aluminium material required - so please ask if you cannot immediately find what you are looking for in the handbook.

To confirm stock availability and order your material, please call one of our three sales branches:

| | |
|-------------------|-----------------------------|
| Birmingham | +44 (0) 121 328 7700 |
| London | +44 (0) 1992 450 300 |
| Manchester | +44 (0) 161 483 9662 |

Sales enquiries can also be emailed to info@metalweb.co.uk

Visit www.metalweb.co.uk for news, information and offers.

RELIANCE STEEL AND ALUMINUM

metalweb is part of the Reliance Steel & Aluminum Co. family of companies.

Who are Reliance Steel and Aluminum?

- Founded in 1939 in Los Angeles and went public in 1994
- NYSE company with revenues of over \$6billion per annum
- The largest metals service center company in the U.S.A.
- Fortune 500 company
- Distributes a full-line of over 100,000 products to more than 125,000 customers
- More than 240 locations in 38 states and Belgium, Canada, China, Malaysia, Mexico, Singapore, South Korea and United Kingdom
- Approximately 85% of sales from repeat customers
- Over 5,000,000 orders annually
- 21,500 transactions per business day
- Provides value added metals processing services with a range of equipment that is unrivalled in the industry including:

Saws 624

Burning/Plasma Machines 199

Plate Saws 150

Shears 139

Cut To Length Lines 68

Slitting Lines 64

Press Brakes 15

Blanchard / Surface Grinders/CNC Machining 12

Laser Cutting Equipment 7

Waterjet Cutting Machines 4

Reliance Steel & Aluminum are the world's largest metallic material stockholder. They are also the world's largest aerospace materials stockholding and deal directly with all the major prime aerospace contractors. If you are looking for a truly global partner for your business then Reliance Steel & Aluminum are the natural choice.

As the only UK division of Reliance Steel & Aluminum metalweb can directly offer you the benefits of dealing with a global player in material stockholding. This includes access to and global leverage on all the major material suppliers of the world. We have reserved capacity with many leading suppliers – so when you need material in time we can deliver. As we are local in the UK we also offer all the benefits of a tailored local service so providing the best of both worlds.

There are over 200 Reliance Group locations worldwide – please see www.rsac.com for more group details.



PROCESSING CAPABILITIES

Driving costs from the supply chain through processing efficiencies.

metalweb supply those companies looking for a 'one-off' size and shape as well as those looking for repeat jobs on a daily, weekly, monthly or annual basis. The quantities on these repeat jobs might run into the thousands - so whatever quantity or service you are looking for we are sure we can help.

Reducing Customer Costs

Advanced engineering companies demand material to be supplied in exact quantities, just-in-time and in a form to a near final shape. This allows them to focus on their own areas of expertise. It also improves their cash flow and profitability by reducing inventory, minimising scrap and maximising throughput rates. metalweb can therefore reduce your costs by first stage processing on a just-in-time basis.

State-of-the-Art Equipment

metalweb have an extensive range of processing equipment operated by fully trained technicians. We can 'cut-to-size' across all types of aluminium forms and alloys, and our range of specialist equipment includes the ability to:

- Cut very thick aluminium plate
- Cut aluminium bar to very close tolerances
- Specialist cutting of circles and rings
- Cutting of complex shapes to a tight tolerance

metalweb have continually invested in our processing capabilities. We now possess a range of state-of-the-art plate and bar cutting machinery, including:

- A specialist plate saw for cutting up to 600 mm thick
- A 6m x 4m bed Waterjet cutter for special shapes and near-net finish tolerances

Plate and Sheet Cut-to-Size

Material as long as 6 metres and as small as a few millimetres can be cut to your exact size. metalweb have the capability in-house to cut plate from as thin as 6 mm up to over 600 mm. Our guillotines can cut sheet to

your required size including the production of strips and blanks. To ensure our sheet stock reaches you in prime condition material can be pvc coated on both sides with our poly-coating machine. This is particularly important if the surface finish needs to be scratch-free.

Extrusion Processing

metalweb operate a range of bar saws which are capable of cutting any size of extrusions including tube. Normally extruded bars are cut to a tolerance of ± 0.5 mm. Close tolerance cutting of bars up to 250mm is by use of CNC controlled, automatic, high speed circular saws which can cut ± 0.1 mm and produce a much superior surface finish. Bars can be cut up to 500mm diameter from stock.

We currently serve a number of markets that require a specialist service of aluminium extrusions. These include building applications; specialist transport applications; interior fitting-out products; and catering/medical hygiene products, amongst others.

In addition to a just-in-time delivery service of materials, we also provide a range of other services to those customers who require "a one stop shop". This includes providing material with a wide range of finishes, including:

- Anodised
- Painted
- Mitred
- Milled
- Waterjet Cut-to-Shape
- Powder Coated
- Drilled and Countersunk
- Rolled and Welded
- Supplied in Kits

If you have a requirement for any of these additional services please ask.

WHEN PRECISION MATTERS...

WATERJET CUTTING FROM METALWEB

For specialist and complex shapes metalweb operate one of the largest Waterjet cutting machines in the UK. We have in-house CAD CAM expertise and fully trained technicians providing you with a professional service.

metalweb can offer the closest tolerances available in the UK on the largest sized material. We can therefore provide you with savings in both time and money through:

- Accurate finishing
- Reduced levels of waste
- Near complete parts which eliminate many secondary operations

In addition, metalweb has in stock the largest range available of commercial aluminium in the UK. Unlike other Waterjet operators we can provide you further reductions in time and costs by not having to source material from elsewhere. We will however also cut free-issue material, as well as other metals and materials as and when requested.

metalweb are therefore uniquely placed in the UK to offer precision cut aluminium parts. With an extensive range of aluminium and other metals already in-stock our Waterjet operation offers you leading edge service and quality.

Features:

- Abrasive Waterjet cutting
- 4 cutting heads with height sensors
- 2 axis cutting machine
- 6700mm x 4200mm bed size
- Maximum thickness for (aluminium) cutting is 250mm
- Uses CNC control by Fanuc
- 2 on-line controlled sand hopper units
- 2 pumps (50 hp each)
- Software programme by Lantek
- 5 levels of cutting finish available
- Distances between heads min 275mm to max 1015mm

- Maximum movement (Head – I) X = 3010mm; Y = 6470mm; Z = 250mm
- Full CAD/CAM facilities to receive your DXF drawings
- Fully trained technicians
- ISO approved
- Currently the largest Waterjet machine operated by a UK metal stockholder

Advantages/Benefits of Waterjet Cutting:

- Provides finished part production
- Cuts to very close tolerances
- Can cut very complex shapes
- Allows repeat jobs after initial programming
- Cold cut i.e. no heat affected zones
- Most thicknesses can be cut
- Most materials can be cut
- In comparison to laser cutting it is slower but far better for cutting aluminium and thicker materials
- Gives greater utilization of material providing cost savings



SERVICE AND QUALITY

Meeting the service and quality standards you require.

The metalweb Team

metalweb's team of colleagues are the heartbeat of the company and deliver the difference to our customers. We have a fully trained team with significant industry experience who are happy to help our customers on any enquiries they might have. This includes everyone from our knowledgeable and experienced sales team to our fully trained technicians in the operations team. Everyone at metalweb has a personal training plan to ensure they are at the forefront of industry requirements. This gives you the confidence of dealing with a professional team from the moment of your first call to the time you receive delivery.

Focus on Quality

metalweb's quality focus extends across the company and its operations including people, products and processes. We regularly audit our activities and have a Quality Manager in place to ensure we remain at the leading edge of good practice. Our approach to quality extends to the products we supply. We regularly review and audit our suppliers to ensure they provide the required levels of service and product performance. A policy of continuous improvement ensures that quality assurance procedures are developed to satisfy the changing demands of the industries we serve.

Integrated System

metalweb operate a fully integrated IT system from point of order entry through to invoicing. The system includes purchasing and delivery so our sales can advise you of availability and agree a delivery date at the time of enquiry. All the materials supplied by metalweb are supported by fully traceable documentation which is stored electronically on our system for future reference.

Quality Control

metalweb has established a rigorous system of quality control to conform to the high standards of BS EN ISO 9001-2008 and AS9100. This satisfies the various proprietary requirements of leading national and high technology companies. All the materials supplied are supported by fully traceable documentation which is stored electronically for future reference. A policy of continuous improvement ensures that quality assurance procedures are developed to satisfy the changing demands of the industries we serve.

In addition to ISO approval, metalweb hold a number of customer specific major approvals including BAE Systems, Westlands, SELEX Galileo Systems and Ipeco. Copies of our current ISO certificates and customer approvals can be found on our website www.metalweb.co.uk



DISTRIBUTION

Delivery where you want and when you want.

Inside the UK

metalweb operate and deliver from each of our four UK sites including our 50,000 sq.ft. operation in Birmingham. We operate our own fleet of delivery vehicles to ensure that your product reaches you on time and in the right quality. On average we make a delivery once every 5 minutes.

In the UK we are able to offer a range of delivery options to suit your requirements, including next day delivery when required. In addition, our integrated IT system allows us to advise customers of the date of delivery at the time of sale — so you will know at the time of order when to expect your product. Many of our customers look to us to help them achieve a lean and cost efficient supply chain. Through our 'just-in-time' delivery, purchasing operation and in-house first stage processing operations we can provide you with a lower 'total acquisition cost'.

Outside the UK/ International Network

metalweb are pleased to work with customers around the world in meeting their material requirements. This includes UK companies with overseas operations as well as internationally based companies. metalweb has the experience and expertise required in export documentation, shipping and procedures to ensure that we can serve you equally well outside and inside the UK.

metalweb's growing export operation currently sells both directly and indirectly to all of the world's continents. To see if we can help you with your overseas operations please speak to a member of the metalweb team. Alternatively if you have a specific export product enquiry please email export@metalweb.co.uk

In addition, as part of the Reliance Steel & Aluminum group metalweb can also support customers with operations in a number of markets. These include the USA, Canada, Mexico, Belgium, China, Malaysia, Singapore and South Korea.

If you need access to stock and first stage processing in any of these countries then the Reliance group would be pleased to support your operation.





metalweb aluminium product range

ALUMINIUM PRODUCTS

Globally sourced to be competitive.

metalweb has thousands of tonnes of material in stock in all its forms and alloys. We also have at least 1,000 tonnes on order at any one time. We believe we will have sufficient stock to satisfy your requirements - whether it is a 'one-off' job or a repeat order requiring thousands of pieces. Our expertise is in sourcing, stocking and first-stage processing material to your exact requirements - so we can supply you in any quantities, types and sizes to suit your needs.

Products

- Plate and sheet
- Tooling plate including cast, mould and rolled
- Round, square, flat and hexagon bars
- Tubes and other extruded shapes
- Plate circles and plate rings
- Forgings

metalweb can offer its customers the advantages of global leverage on suppliers that being part of the Reliance group brings. In addition Reliance has reserved mill capacity with many leading producers to make sure products can be delivered to metalweb when required.

The following summary covers the product types and alloys in our comprehensive range.

Aluminium Alloys

The following major alloys are a selection of the range held in stock:

Heat Treated Alloys:

2●●● series including 2011, 2014/2014A, 2024, 2618

6●●● series including 6082, 6061, 6063, 6101, 6262

7●●● series including 7075, 7020, 7010, 7050
and other aerospace grade alloys

Non-Heat Treated Alloys including:

1●●● series including 1050, 1200

3●●● series including 3103

5●●● series including 5083, 5251, 5754, 5052

In addition, metalweb offer a full range of specifications and other alloys — please ask.

So whether you need BS, EN, ASTM or another standard including QQ-A material, we can provide this for you. We also have a wide variety of tempers available. metalweb has a global network of supplier relationships and can source any aluminium material required - so please ask us to help meet your requirements.





METALLURGY AND SPECIFICATIONS

Pure aluminium is soft and ductile and most commercial uses require greater strength than pure aluminium affords. So strength is achieved by the addition of other elements to produce alloys. Further strengthening is possible by means which classify the alloys roughly into two categories, non-heat-treatable and heat-treatable.

Non-Heat-Treatable Alloys

The strength of alloys in this group depends upon the hardening effect of elements such as manganese, silicon, iron and magnesium. Since these alloys are work-hardenable, strength levels are controlled by various degrees of cold working, denoted by the 'H' series of tempers.

Alloys containing appreciable amounts of magnesium when supplied in strain-hardened tempers are usually given a final elevated-temperature treatment called stabilising to ensure stability of properties.

Heat-Treatable Alloys

The strength of alloys in this group is enhanced by the addition of alloying elements such as copper, magnesium, zinc, and silicon. Since these elements show increasing solid solubility in aluminium with increasing temperature, thermal treatments impart pronounced strengthening. The first step, called solution heat treatment, is an elevated-temperature process designed to put the soluble element or elements in solid solution. This is followed by rapid quenching, usually in water, which momentarily 'freezes' the structure and for a short time renders the alloy very workable. It is at this stage that some fabricators retain this more workable structure by storing the alloys at below freezing temperatures until they are ready to form them. At room or elevated temperatures the alloys are not stable after quenching, and precipitation of the constituents from the super-saturated solution begins. After a period of several days at room temperature, termed ageing or room-temperature precipitation, the alloy is considerably stronger.

Many alloys approach a stable condition at room temperature, but some alloys, particularly those containing magnesium and silicon or magnesium and zinc, continue to age-harden for long periods of time at room temperature. By heating for a controlled time at slightly elevated temperatures, further strengthening is possible and properties are stabilized. This process is called artificial ageing or precipitation hardening. By the proper combination of solution heat treatment, quenching, cold working and artificial ageing, the highest strengths are obtained.

Annealing

All aluminium alloys are available in annealed form. It may be desirable to anneal an alloy from any other initial temper, after working, or between stages of working such as in deep drawing.

SUMMARY OF ALUMINIUM ALLOYS BY CHEMICAL COMPOSITION

| Chemical Composition - % | | | | | | | | | |
|--------------------------|-----------|-----------|-----------|----------|-----------|---------|-----------|---------|-----------|
| Alloy | Cu | Mn | Mg | Fe | Si | Zn | Cr | Ni | Zr |
| 1050 | 0.05 | 0.05 | 0.05 | 0.40 | 0.25 | 0.07 | — | — | — |
| 1200 | 0.05 | 0.05 | — | +Si=1.0 | — | 0.10 | — | — | — |
| 1350 | 0.05 | 0.01 | — | 0.40 | 0.10 | 0.05 | 0.01 | — | — |
| 2014A | 3.9-5.0 | 0.40-1.2 | 0.20-0.80 | 0.50 | 0.50-0.90 | 0.25 | 0.10 | — | — |
| 2017 | 3.5-4.5 | 0.40-1.0 | 0.40-1.0 | 0.70 | 0.20-0.80 | 0.25 | — | — | +Ti=0.25 |
| 2024 | 3.8-4.9 | 0.30-0.90 | 1.2-1.8 | 0.50 | 0.50 | 0.25 | 0.10 | — | — |
| 2214 | 3.9-5.0 | 0.40-1.2 | 0.20-0.80 | 0.30 | 0.50-1.2 | 0.25 | 0.10 | — | — |
| 2219 | 5.8-6.8 | 0.20-0.40 | 0.02 | 0.30 | 0.20 | 0.10 | — | — | 0.10-0.25 |
| 2618A | 1.8-2.7 | 0.25 | 1.2-1.8 | 0.90-1.4 | 0.15-0.25 | 0.15 | — | 0.8-1.4 | — |
| 3103 | 0.10 | 0.90-1.50 | 0.30 | 0.70 | 0.50 | 0.20 | 0.10 | — | +Ti=0.10 |
| 5083 | 0.10 | 0.20-0.70 | 3.5-4.5 | 0.50 | 0.40 | 0.25 | — | — | — |
| 5251 | 0.15 | 0.10-0.50 | 1.70-2.40 | 0.50 | 0.40 | 0.15 | 0.15 | — | — |
| 6061 | 0.15-0.40 | 0.15 | 0.80-1.2 | 0.70 | 0.40-0.80 | 0.25 | 0.04-0.35 | — | — |
| 6063 | 0.10 | 0.10 | 0.45-0.90 | 0.35 | 0.20-0.60 | 0.10 | 0.10 | — | — |
| 6082 | 0.10 | 0.40-1.0 | 0.60-1.2 | 0.50 | 0.70-1.3 | 0.20 | 0.25 | — | — |
| 6101 | 0.05 | — | 0.40-0.90 | 0.40 | 0.30-0.70 | — | — | — | — |
| 7010 | 1.5-2.0 | 0.10 | 2.1-2.6 | 0.15 | 0.12 | 5.7-6.7 | 0.05 | — | 0.11-0.17 |
| 7020 | 0.20 | 0.05-0.50 | 1.0-1.4 | 0.40 | 0.35 | 4.0-5.0 | 0.10-0.35 | — | 0.08-0.20 |
| 7075 | 1.2-2.0 | 0.30 | 2.1-2.9 | 0.50 | 0.40 | 5.1-6.1 | 0.18-0.28 | — | — |
| 7150 | 1.9-2.5 | 0.10 | 2.0-2.7 | 0.15 | 0.12 | 5.9-6.9 | 0.04 | — | 0.08-0.15 |
| 7175 | 1.2-2.0 | 0.10 | 2.1-2.9 | 0.20 | 0.15 | 5.1-6.1 | 0.18-0.28 | — | — |
| 7475 | 1.2-1.9 | 0.06 | 1.9-2.6 | 0.12 | 0.10 | 5.2-6.2 | 0.18-0.25 | — | — |



CHOOSING THE CORRECT ALLOY FOR PLATE, SHEET AND STRIP

... is determined by what the plate, sheet or strip will be used for, how severely it will be formed and what the welding requirements are. Then you can quickly match your application needs with the properties of the commonly available aluminium alloys. You will find below useful descriptions of what each alloy can do, and on the following pages are quick comparison charts of strength properties, formability, weldability, corrosion resistance etc.

Non-Heat-Treatable Alloys

1050/1080/1200 – Commercially pure aluminium, highly resistant to chemical attack and weathering. Easily worked and welded, but the lowest strength aluminium. Excellent for chemical processing equipment and other uses where product purity is important, and for metal pressings of all types where ductility is critical.

1350 – The electrical quality alloy not often found in the rolled form, normally rolled to special requirements.

3003/3103 – Stronger than 1050 and 1200 with same good formability. Good corrosion resistance and weldability. Used for storage tanks, chemical equipment, brazing applications, van bodies and cryogenic uses. For higher strength, consider 5251, 5052 or 5754.

5005 – Specified for anodised applications to match with 6063 extrusions. Anodised coating is clearer and lighter than for 3003/3103 in severe drawing applications. Uses are decorative, architectural and consumer products.

5052/5251/5754 – Forms readily in the intermediate tempers. Corrosion resistance is very good, as is weldability. Better salt water corrosion resistance than 1200. Used for pressure vessels, tanks, fittings or applications involving forming or welding, e.g. used for houseboat hulls, pontoon boats and van bodies. 5052 (2.5% Mg) is commonly used in the USA; 5251 (2% Mg) is largely a 'UK only' standard; whereas 5754 (3% Mg) is the European standard in this range.

5083 – Stronger than the above alloys (e.g. 4.5% Mg). For high strength welded applications with outstanding joint strength – rail wagons, marine components, bridges, cryogenic vessels and overhead cranes. Excellent weldability and corrosion resistance. Restricted to temperatures below 150°F = 65.5°C. The widest range of plate from stock, and we are able to offer short mill lead times.

5086 – Excellent for welded structures – ship hulls and superstructures, road tankers, pressure vessels, movable and cryogenic vessels and structures requiring a high rate of energy absorption. Restricted to temperatures below 150°F = 65.5°C. More commonly used in the USA.

5154 – Similar to 5083 which has largely superseded it. Mainly used on MOD and naval applications.

Heat-Treatable Alloys

2014A/2024/2017 – High strength alloys with excellent machinability and widely used in aircraft. Have limited formability and only fair corrosion resistance in the heat treated condition. Not recommended for fusion welding. Used for high strength parts in aircraft and machinery, including gears and bolts and for security vans where strength is critical. 2017 is the European norm in this range.

2618A/2219 – An alloy developed for Concorde. This alloy is considered to have the best working temperatures in properties. It is more common in France and the UK, 2219 is the American equivalent. Due to their technical complexity, very few mills make these alloys and as a result they are more expensive.

6082/6061 – Widely used structural alloys for light to medium strength applications. Combine good formability, weldability, corrosion resistance and strength after heat treatment. Since they lose appreciable strength when welded, the 5000 series alloys replace them in some marine applications. Availability of bars, shapes, tubing and pipe in the same alloy helps make this a popular selection. 6082 is the most common heat treated plate from stock. 6061 is more commonly used in the USA.

7020 – A good machining quality alloy sometimes used instead of 6082.

7075 – A very high strength aircraft alloy. Good machinability and hardness. Not for welding or corrosion resistance. Widely used for tools and moulds and specialist applications. We carry a complete range of plate and bar in this alloy. 7175 and 7475 are purer versions of 7075 and are used in specific applications.

Tooling Plate

CAST

A continuous cast plate machined both sides to about 25 microinch finish and thermally stress relieved. Has best thickness tolerance of any aluminium plate plus maximum stability. Excellent for precision applications such as electronic base or mounting plates, photo vacuum plates, checking fixtures. Has good welding, anodizing and corrosion resistance properties. No forming. Usually used in the 6mm to 30mm thickness range, but also available up to 150mm.

ROLLED

Aluminium alloy plate, usually in a 5000 series alloy, which has been rolled in the normal way. The plate is subsequently super annealed to provide stability, and then precision face machined to provide close tolerance dimensions. This process is often carried out by processors as well as producing mills, and has a variety of trade or brand names that are often similar or equivalent to each other. This has certain advantages over cast plate in weldability or anodising, but may be less stable.

MOULD

Often a rolled tooling plate and is generally made to rolling mills house specifications. It is not as stable as cast tooling plate but gives much better life in highly machined components. Its porosity free characteristics make it ideal for plastic injection moulds. Most commonly used in the 100mm to 250mm thickness range, but some mills can produce up to 400mm thick. Also available as a 5000 series cast mould plate.

PLATE BUYING TIPS

To assist in specification we have provided on pages 16 and 17 a quick guide to choosing the correct alloy for your use. In buying aluminium plate may we suggest you keep the following in mind:

Stock Range

We have many hundreds of types and sizes of plate in metalweb's stock. The list covers the standard range only, we also carry many non-standard items. For non-stock sizes, through our reserved allocation, lead times can be scheduled to meet your requirements.

Flatness

Nearly all of our rolled plate stock is control stretched to minimise built-in stresses and to achieve a high standard of flatness. If European Norm flatness tolerances are not adequate for your needs you should consider buying CAL5[®] machined plate. See pages 22 and 23 for details.

Welding

All grades are good welding alloys except the 2000 and 7000 series. MIG or TIG welding is recommended.

Cost

Instead of buying full plate and thus incurring extra costs, why not ask us to cut it to the precise size required, or get us to order a multiple size plate which can save on wastage or scrap. Please ask us how we can improve your competitiveness by getting a bespoke size on a quick mill lead time from our reserved allocation. This will improve your costs and price per piece. For profiled shapes we will cut to your drawing or will work to a template.

Tolerances

Since there are no British Standard or European Tolerances for plate cut-to-size by stockholders, the tolerances required should be agreed when placing your order. On the face of the order, please state the size after final machining as well as the desired cut size.



PLATE, SHEET, STRIP ALLOY SELECTION

| Alloy Designations | | | | Processing Characteristics | | | | | | | | |
|------------------------------|-------------------|--------------------|------------------|----------------------------|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| B.S. and International Specs | Former B.S. Specs | Forming | Machining | Welding | | | Anodising | | | | | |
| | | | | Inert Gas Shielded Arc | Oxy-Gas | Spot, Seam Resist'ce | Colour and Protective | Bright | Hard | Plating | Vitreous Enamel | |
| 1050 0 H18 | S1B | ••••• •• | •• ••• | •••• •••• | •••• •••• | •••• •••• | ••••• ••••• | ••••• ••••• | ••••• ••••• | ••••• ••••• | ••••• ••••• | ••• ••• |
| 1080 0 H18 | S1A | ••••• •• | •• •• | •••• •••• | •••• •••• | ••• ••• | ••••• ••••• | ••••• ••••• | ••••• ••••• | ••••• ••••• | — — | — — |
| 1200 0 H14 H18 | S1C | ••••• ••• •• | •• •• •••• | •••• •••• •••• | •••• •••• •••• | ••••• ••••• ••••• | ••••• ••••• ••••• | ••••• ••••• ••••• | ••••• ••••• ••••• | ••••• ••••• ••••• | ••••• ••••• ••••• | ••• ••• ••• |
| 1350 0 | P1E | ••••• | — | ••••• | ••••• | ••••• | ••••• | ••••• | ••••• | ••••• | — | — |
| 2014A T4 T6 | HS15 | ••• •• | ••• •••• | — — | — — | ••••• ••••• | •• •• | — — | ••• ••• | ••••• ••••• | ••••• ••••• | — — |
| 2024 T4 T5 | | ••• ••• | •••• •••• | — — | — — | ••••• ••••• | •• •• | — — | ••• ••• | ••••• ••••• | ••••• ••••• | — — |
| 2618A T8 | HS16 | — | ••• | • | — | — | •• | — | •• | — | — | — |
| 3103 0 H14 | NS3 | •••• •••• | •• •• | •••• •••• | •••• •••• | ••••• ••••• | •••• •••• | • • | ••• ••• | ••••• ••••• | ••••• ••••• | ••••• ••••• |
| 5005 0 H14 H18 | NS41 | ••• ••• •• | •• •• •• | ••••• ••••• ••••• | — — — | ••••• ••••• ••••• | ••••• ••••• ••••• | ••••• ••••• ••••• | ••••• ••••• ••••• | — — — | — — — | |
| 5052 0 | | •••• | •• | •••• | •••• | •••• | ••••• | ••••• | ••••• | ••••• | — | — |
| 5083 0 | NS8 | •• | ••• | ••••• | •• | ••••• | ••••• | •• | ••••• | ••••• | T | — |
| | H22 | •• | •••• | ••••• | •• | ••••• | ••••• | •• | ••••• | ••••• | T | — |
| | H24 | •• | •••• | ••••• | •• | ••••• | ••••• | •• | ••••• | ••••• | T | — |
| 5454 0 | NS51 | •••• | ••• | ••••• | •• | ••••• | ••••• | •• | ••••• | ••••• | — | — |
| 5754 0 | | ••• | ••• | ••••• | •• | ••••• | ••••• | •• | ••••• | ••••• | T | — |
| 6061 T4 T6 | HS20 | •••• | ••• | •••• | ••• | •••• | ••• | •• | •••• | •••• | T | T |
| 6082 T4 T6 | HS30 | ••• | ••• | •••• | ••• | •••• | ••• | •• | •••• | •••• | T | T |
| 7020 T4 | HS17 | — — | ••• •••• | •••• •••• | — — | — — | •• •• | — — | ••• ••• | — — | — — | — — |
| 7075 T6 | | •• | ••••• | — | — | •••• | •• | — | •• | — | — | — |

T= Special Pre-Treatment Required, ••••• = Excellent, •••• = Very Good, ••• = Good, •• = Fair, • = Poor, — = Unsuitable

These properties have been calculated to provide a basis for comparison across a wide range of alloys. They are not minimum standards. All the alloys are covered by a national specification and most are covered by a British Standard, which should be used as a basis for design and purchasing contracts.

PLATE, SHEET AND STRIP

TYPICAL MECHANICAL PROPERTIES

| International Alloy Designation | Former B.S. Specs | 0.2% Proof Stress MPa | Tensile Strength MPa | % Elongation | | Shear Strength MPa | Fatigue Strength 50mil. Cycles MPa | Hardness* | | |
|---------------------------------|-------------------|--------------------------|-------------------------|----------------------|--------------|-----------------------|--|-----------------|-----------------|-------------|
| | | | | On 5.65 $\sqrt{S_0}$ | On 50mm | | | Brinell | Vickers | Rockwell B |
| 1050 O H18 | S1B | 35 133 | 75 146 | 25 — | 32 5 | 50 78 | 20 45 | 21 40 | 22 43 | — — |
| 1080 O H18 | S1A | 30 125 | 75 138 | — — | 32 5 | 60 — | — — | 19 38 | 20 40 | — — |
| 1200 O H14 H18 | S1C | 40 115 143 | 80 125 160 | 20 — — | 30 5 4 | 70 85 100 | 40 55 76 | 22 33 42 | 23 35 45 | — — — |
| 1350 O H14 | P1E | — 110 | 85 — | — — | — 70 | 55 — | — — | — — | — — | — — |
| 2014A T4 T6 | HS15 | 255 420 | 410 470 | 10 8 | 14 7 | 262 293 | 170 170 | 115 145 | 122 153 | 67 81 |
| 2024 T4 T5 | | 325 345 | 470 480 | — — | 20 18 | 280 280 | 140 140 | 120 120 | 126 126 | 70 70 |
| 2618A T8 | HS16 | 410 | 460 | — | 7 | 280 | 125 | 123 | 145 | 78 |
| 3103 O H14 | NS3 | 50 140 | 112 157 | — — | 24 5 | 76 92 | 54 71 | 29 44 | 30 47 | — — |
| 5005 O H14 H18 | NS41 | — 115 170 | 120 165 195 | — — — | 30 8 5 | 76 96 110 | — — — | 28 40 50 | 29 42 52 | — — — |
| 5052 O H22 | | 90 180 | 200 240 | — — | 22.5 18.5 | 125 140 | 110 120 | 47 60 | 50 63 | — — |
| 5083 O H22 | NS8 | 140 250 | 292 337 | 20 — | 16 8 | 155 — | 124 — | 72 95 | 76 100 | — 52 |
| 5086 O | | 115 | 260 | — | 22 | 160 | — | — | — | — |
| 5154 O H22 | NS5 | 105 185 | 245 270 | 20 — | 16 7 | 146 170 | 108 139 | 55 83 | 58 87 | — 40 |
| 5251 O H22 H24 | NS4 | 87 150 190 | 180 220 250 | 20 — — | 18 6 5 | 125 — 139 | 92 124 — | 45 62 70 | 47 65 74 | — — — |
| 5454 O | NS51 | 100 | 250 | 20 | 16 | 159 | — | 62 | 65 | — |
| 5754 O | | 120 | 230 | 20 | — | 155 | — | 60 | 62 | — |
| 6061 T4 T6 | HS20 | 125 265 | 215 305 | 18 11 | 16 9 | 165 205 | 95 95 | 60-70 90-100 | 64-74 95-105 | — 48-57 |
| 6082 T4 T6 | HS30 | 130 270 | 225 310 | 16 9 | 15 8 | 178 218 | 106 124 | 60-70 90-100 | 64-74 95-105 | — 48-57 |
| 7020 T4 T6 | HS17 | 200 290 | 310 350 | 12 10 | 10 8 | — — | — — | 95 120 | 100 126 | — 70 |
| 7075 T6 | | 505 | 570 | 10 | 11 | 330 | 160 | 150 | 157 | 82 |

Fatigue Strength

The figures shown are provided to enable a quick comparison of the alloys, they should not be used as the sole basis for design. For this purpose refer to BS CP 118.

* Please note that there is no simple relationship (for aluminium alloys) between hardness and tensile strength. A hardness test cannot be used as a substitute for a tensile test. In addition hardness test results can vary if not conducted in the right conditions. **Therefore these figures should be used as a guideline only.**

PLATE, SHEET AND STRIP

TYPICAL PHYSICAL PROPERTIES

| International Alloy Designation | Former B.S. Specs | Modulus of Elasticity GPa | Density g/cm ³ | Melting Range °C | | Coefficient of Linear Expansion (20–100°C) 10 ⁻⁶ /°C | Thermal Conductivity (0–100°C) | | Electrical | | Resistance to Atmospheric Attack | |
|---------------------------------|-------------------|------------------------------|------------------------------|---------------------|------|---|-----------------------------------|------|------------------------|----------------|----------------------------------|--------------------------------|
| | | | | | | | W/m°C | %ACS | Resistivity | | | Conductivity (20°C) %ACS |
| | | | | | | | | | (20°C) Micro-Ohm cm | (20°C) %ACS | | |
| 1050 O H18 | S1B | 69 | 2.71 | 635 | 24 | 230 | 58.4 | 2.8 | 61.6 | ••••• | | |
| | | 69 | 2.71 | 635 | 24 | 230 | 58.4 | 2.8 | 61.6 | ••••• | | |
| 1080 O H18 | S1A | 69 | 2.70 | 645 | 24 | 230 | 58.4 | 2.8 | 61.6 | ••••• | | |
| | | 69 | 2.70 | 645 | 24 | 230 | 58.4 | 2.8 | 61.6 | ••••• | | |
| 1200 O H14 H18 | S1C | 69 | 2.71 | 660 | 24 | 226 | 57.4 | 2.9 | 59.5 | •••• | | |
| | | 69 | 2.71 | 660 | 24 | 226 | 57.4 | 2.9 | 59.5 | •••• | | |
| | | 69 | 2.71 | 660 | 24 | 226 | 57.4 | 2.9 | 59.5 | ••••• | | |
| 1350 O | P1E | 70 | 2.70 | 650–660 | 23 | 226 | — | 2.8 | — | ••••• | | |
| 2014A T4 T6 | HS15 | 74 | 2.80 | 530–610 | 22 | 142 | 36.1 | 5.3 | 32.5 | • | | |
| | | 74 | 2.80 | 530–610 | 22 | 159 | 39.8 | 4.5 | 38.3 | • | | |
| 2024 T4 T5 | | 73 | 2.77 | 500–640 | 23 | 151 | 38.4 | 5.7 | 30 | • | | |
| | | 73 | 2.77 | 500–640 | 23 | — | — | 5.7 | 30 | • | | |
| 2618A T8 | HS16 | 72 | 2.75 | 560–650 | 22 | 151 | 38.4 | 4.4 | 39.2 | •• | | |
| 3103 O H14 | NS3 | 69 | 2.73 | 645–655 | 23 | 172 | 43.7 | 4.0 | 43.1 | •••• | | |
| | | 69 | 2.73 | 645–655 | 23 | 172 | 43.7 | 4.0 | 43.1 | •••• | | |
| 5005 O H14 H18 | NS41 | 69 | 2.69 | 630–650 | 23.9 | 201 | 51.1 | 3.3 | 52.2 | •••• | | |
| | | 69 | 2.69 | 630–650 | 23.9 | 201 | 51.1 | 3.3 | 52.2 | •••• | | |
| | | 69 | 2.69 | 630–650 | 23.9 | 201 | 51.5 | 3.3 | 52.2 | •••• | | |
| 5052 H22 | | 70 | 2.68 | 605–650 | 24 | 138 | — | 4.9 | — | •••• | | |
| 5083 O H22 | NS8 | 71 | 2.67 | 580–645 | 24.5 | 109 | 27.7 | 6.1 | 28.3 | •••• | | |
| | | 71 | 2.67 | 580–645 | 24.5 | 109 | 27.7 | 6.1 | 28.3 | •••• | | |
| 5086 O | | 71 | 2.66 | 585–640 | 24 | 126 | — | 5.6 | — | •••• | | |
| 5154 O H22 | NS5 | 70 | 2.67 | 600–640 | 24.5 | 138 | 35.1 | 5.4 | 31.9 | •••• | | |
| | | 70 | 2.67 | 600–640 | 24.5 | 138 | 35.1 | 5.4 | 31.9 | •••• | | |
| 5251 O H22 H24 | NS4 | 70 | 2.69 | 595–650 | 24 | 155 | 39.4 | 4.7 | 36.7 | •••• | | |
| | | 70 | 2.69 | 595–650 | 24 | 155 | 39.4 | 4.7 | 36.7 | •••• | | |
| | | 70 | 2.69 | 595–650 | 24 | 155 | 39.4 | 4.7 | 36.7 | •••• | | |
| 5454 O | NS51 | 70 | 2.68 | 600–640 | 24 | 147 | 37.3 | 5.1 | 33.8 | •••• | | |
| 5754 O | | 70 | 2.68 | 600–640 | 24 | 147 | 37.3 | 4.9 | 35.3 | •••• | | |
| 6061 T4 T6 | HS20 | 69 | 2.70 | 570–660 | 24 | 156 | 39.6 | 4.3 | 40.1 | ••• | | |
| | | 69 | 2.70 | 570–660 | 24 | 156 | 39.6 | 4.0 | 43.1 | ••• | | |
| 6082 T4 T6 | HS30 | 69 | 2.70 | 570–660 | 23 | 172 | 43.7 | 4.1 | 42.1 | •••• | | |
| | | 69 | 2.70 | 570–660 | 23 | 184 | 43.7 | 3.7 | 48.6 | •••• | | |
| 7020 T4 T6 | HS17 | — | 2.78 | — | — | 134 | 34.0 | 4.6 | 37.5 | •• | | |
| | | — | 2.78 | — | — | 134 | 34.0 | 4.6 | 37.5 | •• | | |
| 7075 T6 | | 72 | 2.80 | 475–630 | 23.5 | 130 | 32.9 | 5.2 | 34 | • | | |

T = Special Pre-Treatment Required, ••••• = Excellent, •••• = Very Good, ••• = Good, •• = Fair, • = Poor, — = Unsuitable

These properties have been calculated to provide a basis for comparison across a wide range of alloys. They are not minimum standards. All the alloys are covered by a national specification and most are covered by a British Standard, which should be used as a basis for design and purchasing contracts.

PRECISION FACE-MACHINED CAST TOOLING PLATES CAL5[®]

metalweb are pleased to offer its brand new range of face machined cast tooling plate for the first time in the UK market. Manufactured exclusively for metalweb this 5000 series based alloy plate is machined to industry standard thickness and flatness tolerances.



Using special machining equipment with heads designed to match our specifications, we are able to offer aluminium cast plates with a precision Ra 0.4 μm finish. The plates have a thickness tolerance of ± 0.10 mm and very good flatness values.

Advantages of metalweb CAL5[®] Plate:

- High tensile strength
- Good ductility
- Especially heat treated to obtain stress free condition, annealing after machining is not required
- Regular fine grain structure
- Excellent corrosion resistance
- Very good machinability
- Very good weldability
- Good anodizing (not decorative) and hardcoating properties

metalweb CAL5[®] Plate has a Range of Applications including:

- Jigs and fixtures
- Precision parts
- Electronic mounting plates
- Modelling boards
- Pattern plates
- Plastic moulds

metalweb offer a range of 'tooling plate' solutions including other specialist cast, rolled and mould plate products. For details and availability – or for advice on what to select for your chosen application – please enquire. Also, please note that 7000 series cast plate is available on request.

Sizes Available

metalweb CAL5[®] is available in a range of sizes.

Thickness range: 6.35mm (¼") up to 50.8mm (2")

Maximum standard length is: 3670.3mm (144 ½")

Maximum standard width is: 1841.5mm (72½")

Non-standard dimensions are available at additional charges. In addition metalweb has a range of specialist processing equipment to cut plates to the exact size required.

Chemical Compound of CAL5[®]

Magnesium 4% - 5%

Manganese <1%

Other 1.5%

Aluminium Rest

Mechanical and Physical Properties

| | S.I. Units | Imperial Units |
|--|------------------------|-------------------------|
| Yield strength R _{p0.2} | [MPa] | 110 - 130 |
| Ultimate tensile strength R _m | [MPa] | 230 - 290 |
| Elongation A ₅ | [%] | 15 |
| Module of elasticity | [GPa] | 70 |
| Brinell hardness HBS | [2.5/62.5] | 70 - 80 |
| Density | [g/cm ³] | 2.66 |
| Coefficient of thermal expansion | [K ⁻¹] | 23.5 x 10 ⁻⁶ |
| Thermal conductivity | [W/m•K] | 110 - 140 |
| Electrical conductivity | [m/W•mm ²] | 16 - 18 |
| Specific heat | [J/kg•K] | 900 (25°-100° C) |

Non-standard dimensions are available at additional charges. In addition metalweb has a range of specialist processing equipment to cut plates to the exact size required.

* All imperial sizes are inches; metric sizes are millimetres.

Dimension Tolerances

| Thickness | Flatness* | Thickness tolerance |
|-------------|-----------|---------------------|
| (mm) | (mm) | (mm) |
| 6.35 - 12.7 | ≤0.44 | ±0.10 |
| >12.7 | ≤0.14 | ±0.10 |

* The surface flatness for whole plates is measured with a special digital flatness ruler with a measuring length of 1 metre.



PRECISION FACE-MACHINED ROLLED PLATES

This product is made to a variety of brand or house names essentially in 5000 series alloys.

Description

Aluminium Rolled Plates are precision face-machined in a Ra 0.64µm finish. Using proper aluminium machining methods close thickness and flatness tolerance can be maintained uniformly.

The rolling process gives an excellent granular structure and virtually eliminated porosity combined with a good tensile strength. Through adequate thermal treatment distortions and stresses are reduced to a minimum. This metal quality enables the manufacturing of thinner plates offering perfect dimensional stability, high resistance to corrosion and minimal porosity.

Advantages

- High tensile strength guaranteeing very good machinability and dimensional stability properties
- No further costs for surfacing
- Can easily be welded using 5183
- Good anodizing (not decorative) and hardcoating properties
- Good low temperature properties
- Good seawater and resistance to corrosion
- Standard DIN EN ISO alloy

Typical Properties

| | | |
|-----|---|---------|
| UTS | = | 300 MPA |
| YS | = | 135 MPA |



ALUMINIUM ALLOY ROLLED MOULD PLATE

metalweb are able to provide a range of rolled mould plate options including branded options from leading aluminium mills.

These tool and mould alloys are replacing tool steels where the traditional values of aluminium supersedes steels due to its lightness, life cycle, weldability and recycling value. Particularly used in formers and vacuum fixtures.

A specially designed range of aluminium alloys for mould tool applications.

These plates are usually available in 7000 series alloys but are also available in 2000 and 5000.

Typical Properties 7000 Series

| | |
|--|------------------------------------|
| Product Type | Aluminium Alloy Mould Plate |
| Chemical Composition | |
| Alloy type | 7000 |
| Cu | 1,6 |
| Mg | 2,4 |
| Zn | 6 |
| Thickness | |
| Mini (mm) | 25 |
| Maxi (mm) | 355 |
| Mechanical Properties (thickness: 100mm) | |
| Rm (Mpa) | 580 |
| Rp0,2 (Mpa) | 530 |
| HB 185 | |
| Other Properties | |
| Density | 2,82 |
| Thermal conductivity (W/m.°C) | 153 |
| Melting Range | 475-630 |
| Usage Properties | |
| Welding – fitting – filling | Not recommended Good |
| Machinability (scrap flow) | Good |
| Hard anodising | Very good |

Comparing Mechanical Properties

| | Carbon Steel | Pretreated Steel | Tool Steel | Aluminium Alloy Rolled Mould Plate |
|-------------|--------------|------------------|------------|------------------------------------|
| UTS (MPa) | 620 | 1010 | 1300-2000 | 580 |
| YS0,2 (MPa) | 325 | 890 | — | 530 |
| HB | 174 | 304 | 400-600 | 185 |
| HRB | 87 | 108 | 114- | 90 |
| HRC | — | 32 | 42-57 | — |

PATTERNED SHEET AND PLATE

These can be used in a multitude of applications, including buildings, walls, floors, shopfitting and protection for all surfaces.

'5 Bar' Treadplate

The 'traditional' treadplate, well known everywhere, especially in sandwich shops. Suitable as a surface cover for walls or displays and in thicker gauges for floors and walkways.

| 5754 '5 Bar' Treadplate | | | |
|-------------------------|-------|-----------|--|
| Metric Availability | | | |
| Length | Width | Thickness | |
| 2500 | 1250 | 2.0 | |
| 2500 | 1250 | 3.0 | |
| 2500 | 1250 | 4.5 | |
| 2500 | 1250 | 6.0 | |

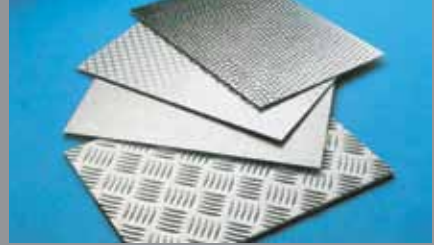
| 6082 '5 Bar' Treadplate | | | |
|-------------------------|-------|-----------|--|
| Metric Availability | | | |
| Length | Width | Thickness | |
| 2500 | 1250 | 3.0 | |
| 3000 | 1500 | 6.0 | |

5754 'TopGrip®' Treadplate

A new design in treadplate from a leading western European aluminium supplier. This new product offers improved levels of safety as well as style.

| 5754 'TopGrip®' Treadplate | | | |
|----------------------------|-------|-----------|--|
| Metric Availability | | | |
| Length | Width | Thickness | |
| 2500 | 1250 | 2.0 | |
| 2500 | 1250 | 3.0 | |
| 3000 | 1500 | 3.0 | |

Other lengths, widths and thicknesses are available on request.



5 Bar, Stucco, Checkmate and Hammered Pattern all available



Revolutionary new TopGrip®

1050 Stucco Embossed

Utilised largely for cladding/surface protection.

| 1050 Stucco Embossed | | | |
|----------------------|-------|-----------|--|
| Metric Availability | | | |
| Length | Width | Thickness | |
| 2000 | 1000 | 0.50 | |
| 2500 | 1250 | 0.50 | |
| 2000 | 1000 | 0.70 | |
| 2500 | 1250 | 0.70 | |
| 2500 | 1250 | 0.90 | |

3103 Checkmate

Utilised largely in transport applications.

| 3103 Checkmate | | | |
|-----------------------|-------|-----------|--|
| Imperial Availability | | | |
| Length | Width | Thickness | |
| 8' | 4' | 0.125" | |
| 6' | 3' | 0.125" | |

SHEETS FOR BUILDING/DECORATIVE/DISPLAY

1. Suitable for anodizing with protective adhesive coating.

| 5005 H14 Anodic Sheet | | |
|-----------------------|-------|-----------|
| Metric Availability | | |
| Length | Width | Thickness |
| 2000 | 1000 | 1.0 |
| 2000 | 1000 | 1.5 |
| 2000 | 1000 | 2.0 |
| 2000 | 1000 | 2.5 |
| 2000 | 1000 | 3.0 |
| 2500 | 1250 | 1.5 |
| 2500 | 1250 | 2.0 |
| 2500 | 1250 | 3.0 |
| 3000 | 1250 | 1.5 |
| 3000 | 1500 | 1.0 |
| 3000 | 1500 | 1.5 |
| 3000 | 1500 | 2.0 |
| 3000 | 1500 | 3.0 |
| 4000 | 1500 | 2.0 |
| 4000 | 1500 | 3.0 |

2. 5005 H14 Pre-anodized to AA15 Natural with protective adhesive coating.*

| 5005 H14 Anodic Sheet | | |
|-----------------------|-------|-----------|
| Metric Availability | | |
| Length | Width | Thickness |
| 2000 | 1000 | 1.0 |
| 2000 | 1000 | 1.5 |
| 2000 | 1000 | 2.0 |
| 2000 | 1000 | 3.0 |
| 2500 | 1250 | 1.0 |
| 2500 | 1250 | 1.5 |
| 2500 | 1250 | 2.0 |
| 2500 | 1250 | 3.0 |
| 3000 | 1500 | 1.0 |
| 3000 | 1500 | 1.5 |
| 3000 | 1500 | 2.0 |
| 3000 | 1500 | 3.0 |
| 4000 | 1500 | 1.5 |

* Alternative Anodic thicknesses available.

3. Standard aluminium sheets available in 1050, 3103, 5251 (S1C, NS3, NS4) in a range of standard sizes — 2m x 1m; 2.5m x 1.25m; 3m x 1.5m and 4m x 2m and a range of thicknesses from 0.45mm to 6mm thick.

4. Specialist aluminium sheets available in alloys 2014, 2024, 5083, 6061, 6082, 7075. Please enquire!

Please note that these high quality 5005 sheets can take a few days for delivery, and may incur minimum quantities.

EXTRUDED PRODUCTS

CHOOSING THE CORRECT EXTRUSION ALLOY

... is determined by what the rod, bar, section or tube will be used for and how it will be machined or finished.

Then you can quickly compare your application requirements with the commonly available alloys. You will find below useful descriptions of what each alloy can do and within this section there are easy comparison charts for mechanical properties, machinability, corrosion resistance etc.

1050/1200 – Soft workable alloys having high purity which gives excellent corrosion resistance.

1350 – Electrical purity aluminium with conductivity of 61.5% of the International Annealed Copper Standard. For similar current and temperature rise conditions a conductor in this alloy weighs 46% of a copper conductor. It is obviously used principally as an electrical bus bar where low resistivity is a critical requirement.

2011 – The Free Machining Alloy – Machines to an excellent finish. Often replaces free machining brass without a change of tooling. First choice for screw machined parts unless higher strength or more corrosion resistance is required. Contains lead and bismuth and consequently losing popularity to alternatives. 6262 has now evolved into 6026 as the machining alloy to replace 2011/2030/2007 - please enquire.

2014 – Has a tendency to allow the removal of a greater volume of metal in a single operation for an equivalent standard of finish than 6082. Durability, however, is lower and needs a protective coating. Machines better in solution treated condition than fully heat treated. Used for machined parts where these characteristics are critical. The most common aerospace extrusion alloy in the UK.

3003/3103 – 1% Mag Alloy. Usually stocked in solid bar form rather than shapes. A good welding alloy often used in cryogenic applications.

5056A/5083/5251 – Alloys in which magnesium is the main alloying element. Ductile in the soft condition but work harden rapidly becoming extremely tough. Very good weldability and high resistance to marine atmospheres makes them ideal for shipbuilding and road transport applications. Harder to extrude than other alloys, particularly in hollows, and therefore longer lead times and higher prices. Not generally stocked, but metalweb carry a comprehensive range.

6061 – Standard structural alloy easily welded or brazed with fine finishing characteristics and good corrosion resistance. Similar to 6082 with better formability but more difficult to extrude and possessing lower strength. Used for couplings, hardware, hydraulic pistons, etc.

6063/6005 – Low to medium strength alloys which are suitable for more intricate sections requiring good corrosion resistance and high surface finish. Used in transport and all architectural applications where good anodising characteristics are essential. 6063 is the most common alloy for shapes from stock. 6060 is widely used in Europe and has similar mechanical properties.

6082 – Most versatile of all the medium strength alloys with good mechanical properties, corrosion resistance, weldability and machinability. Most common commercial rod and bar alloy from stock. metalweb have the largest range available.

6101A – The best combination of mechanical and electrical properties, 55% of the International Annealed Copper Standard. See comments on 1350. Normally in bar form.

7020 – A medium to high strength alloy with good welding characteristics used in general engineering, aerospace and defence applications.

7075 – Highest strength bars normally stocked. Not a standard screw machine grade yet produces curled or easily broken chips with good to excellent machined finish. Has high hardness but poor corrosion and welding characteristics. For machined parts requiring high strength. Mainly used in the aerospace industry. Available in rounds and rectangles.



BAR BUYING TIPS

To assist in specification, at the front of the Extruded Products Section we have provided a quick guide to choosing the correct alloy for your use. In buying aluminium bar please keep the following in mind.

Lengths

Up to 2½" diameter the standard length is 12' or 4 metres. Over that diameter the lengths are random. If you require shorter lengths we will be pleased to cut to any length required. If longer than standard lengths are needed, we can supply against a special order.

Radiused Flats and Squares

We normally stock flat and square bars with square corners. However, for many of the more popular sizes we also stock bars with radiused corners. If special radiuses are required we can supply against a special order.

Machinability

6082T6 or 2014T6 are normally the alloys chosen for machinability, but if ultra high speed machining is required, 2011/6262 are more suitable.

Finishing

If an anodised finish is required, you must take care not to store metal for long periods prior to anodising, as this can result in pit corrosion which is difficult to remove.

Blanking

Buying bars cut to your exact requirements saves machine time. metalweb have a wide range of saws for multiple bar cutting. We can produce blanks which are immediately available for your production programme. Please note that our saws can multiple cut up to 450mm diameter and to close tolerances.

Bars, Tube and Sections - Alloy Section

| Alloy Designations | | | | Processing Characteristics | | | | | | | |
|----------------------------|-------------------|---------|-----------|----------------------------|----|----------------------|------------------------------------|--------|-------|---------|-----------------|
| B.S. and Intl. Specs | Former B.S. Specs | Forming | Machining | Welding Inert Gas Arc | | Spot, Seam Resist'ce | Anodising Colour and Protective | Bright | Hard | Plating | Vitreous Enamel |
| 2014AF T4 T6 | HE15 | ••• | •••• | — | — | ••••• | •• | — | ••• | •••• | — |
| | HE15 | •• | ••••• | — | — | ••••• | •• | — | •• | •••• | — |
| | HE15 | •• | ••••• | — | — | ••••• | •• | — | •• | •••• | — |
| 6063 F O T4 T6 | HE9 | ••••• | ••• | •••• | •• | •••• | •••• | ••• | ••••• | T | — |
| | HE9 | ••••• | ••• | •••• | •• | •••• | •••• | ••• | ••••• | T | — |
| | HE9 | ••• | ••• | •••• | •• | •••• | •••• | ••• | ••••• | T | — |
| | HE9 | •• | •••• | •••• | •• | •••• | •••• | ••• | ••••• | T | — |
| 6082 F O T4 T6 | HE30 | •••• | ••• | •••• | •• | •••• | ••• | •• | ••• | T | T |
| | HE30 | ••••• | ••• | •••• | •• | •••• | ••• | •• | ••• | T | T |
| | HE30 | ••• | •••• | •••• | •• | •••• | ••• | •• | ••• | T | T |
| | HE30 | •• | ••••• | •••• | •• | •••• | ••• | •• | ••• | T | T |

T = Special Pre-Treatment Required ••••• = Excellent, •••• = Very Good, ••• = Good, •• = Fair, • = Poor, — = Unsuitable

These properties have been calculated to provide a basis for comparison across a wide range of alloys. They are not minimum standards. All the alloys are covered by a national specification and most are covered by a British Standard, which should be used as a basis for design and purchasing contracts.

BARS, TUBE AND SECTIONS TYPICAL MECHANICAL PROPERTIES

| International Alloy Designation | Former BS Specs | 0.2% Proof Stress MPa | Tensile Strength MPa | % Elongation | | Shear Strength MPa | Fatigue Strength 50mil Cycles MPa | Hardness | | |
|---------------------------------|-----------------|--------------------------|------------------------------------|---------------------|---------------------|-----------------------|--|-----------------------|-----------------------|------------------------|
| | | | | On 5.65 \sqrt{SO} | On 50mm | | | Brinell | Vickers | Rockwell B |
| 1050 O F | E1B | 55 – | 75 60 | 25 25 | 32 23 | 50 – | 20 – | 21 23 | 22 24 | – – |
| 1200 O | E1C | 60 | 80 | 20 | 30 | 70 | 40 | 22 | 23 | – |
| 1350 F O | E1E | – – | – 85 | – – | – – | – 55 | – – | – 21 | – 22 | – – |
| 2011 T5 T6 | FC1 | 250 255 | 340 340 | 6 6 | 5 – | 220 235 | 125 – | 100 100 | 108 108 | 48 56 |
| 2014AF T4 T6 | HE15 | – 255 420 | – 410 470 | – 10 8 | – 14 7 | – 267 293 | – 170 170 | – 115 135 | – 124 146 | – 67 81 |
| 2024 T3 | | 340 | 475 | 18 | 18 | 290 | 280 | 120 | 125 | 70 |
| 2618A T6 | | 365 | 450 | 7 | – | 280 | – | 125 | 132 | 72 |
| 3003 F O | | – 50 | – 120 | – – | – 32 | – 80 | – 50 | – 30 | – 31 | – – |
| 5056 F O H24 | NE6 | 140 – – | 280 250 - 310 310 - 360 | 12 – – | – – – | – – – | – – – | – – – | – 65 – | – – – |
| 5083 O | NE8 | 140 | 312 | 16 | 16 | 155 | 124 | 72 | 77 | – |
| 5251 O | NE4 | 87 | 180 | 16 | 18 | 125 | 92 | 45 | 48 | – |
| 6061 T4 T6 | HE20 | 125 265 | 215 305 | 18 11 | 16 9 | 165 205 | 95 95 | 60 95 | 64 102 | – 48 - 56 |
| 6063 F O T4 T6 | HE9 | – – 90 180 | 100 140 max 155 210 | 13 15 16 8 | 12 13 14 7 | – – 131 155 | – – 79 85 | 35 25 55 80 | 37 26 59 86 | – – – – |
| 6082 F O T4 T6 | HE30 | – – 130 270 | 110 170 max 190 295 - 310 | 13 16 16 8 | 12 14 14 7 | – – 178 218 | – – 106 124 | 45 35 65 100 | 48 37 70 108 | – – – 48 - 56 |
| 6101 T6 | 91E | 180 | 210 | 10 | 8 | 140 | – | 70 | 75 | – |
| 7020 T4 T6 | HE17 | 200 290 | 310 350 | 12 10 | 10 8 | – – | – – | 95 120 | 100 126 | – 70 |
| 7075 T6 | | 505 | 570 | 10 | – | 330 | 160 | 150 | 157 | 82 |

Note: The information given in this table is principally for extruded sections. Where H12 or H14 tempers are shown the properties relate to drawn tube and sections only.

Fatigue Strength

The figures shown are provided to enable a quick comparison of the alloys, they should not be used as the sole basis for design. For this purpose refer to BS CP 118.

* Please note that there is no simple relationship (for aluminium alloys) between hardness and tensile strength. A hardness test cannot be used as a substitute for a tensile test. In addition hardness test results can vary if not conducted in the right conditions. Therefore these figures should be used as a guideline only.

BARS, TUBE AND SECTIONS TYPICAL

PHYSICAL PROPERTIES

| International Alloy Designation | Modulus of Elasticity GPa | Density g/cm ³ | Melting range °C | Coefficient of Linear Expansion (20–100°C) 10 ⁻⁶ /°C | Thermal Conductivity | | Electrical | | Resistance to atmospheric attack |
|---------------------------------|---------------------------|---------------------------|--|---|--------------------------|------------------------------|--------------------------|------------------------|----------------------------------|
| | | | | | W/M °C | %ACS | Resistivity | Conductivity | |
| 1050 O F | 69 69 | 2.71 2.71 | 635 635 | 24 24 | 230 230 | 58.4 58.4 | 2.8 2.8 | 61.6 61.6 | ••••• ••••• |
| 1200 O | 69 | 2.71 | 660 | 23.5 | 226 | 57.4 | 2.9 | 59.5 | •••• |
| 1350 F O | 70 70 | 2.7 2.7 | 650 - 660 650 - 660 | 24 24 | 230 230 | 57.4 57.4 | 2.8 2.8 | 61.6 61.6 | •••• •••• |
| 2011 T5 T6 | 71 71 | 2.83 2.83 | 540 - 640 540 - 640 | 24 24 | 163 163 | 41.4 41.4 | 4.4 4.4 | 39.2 39.2 | • • |
| 2014A F T4 T6 | 74 74 74 | 2.8 2.8 2.8 | 530 - 610 530 - 610 530 - 610 | 23.5 23.5 23 | – 142 159 | – 36.1 39.8 | – 5.3 4.5 | – 32.5 38.3 | • • • |
| 2024 T3 | 73 | 2.77 | 500 - 640 | 23.1 | 121 | – | 5.7 | 30 | • |
| 2618A T6 | 72 | 2.75 | 560-650 | 22 | 151 | 38.4 | 4.4 | 39.2 | •• |
| 3003 F O | 69 69 | 2.73 2.73 | 640 - 655 640 - 655 | 23.5 23.5 | 172 172 | 40.3 40.3 | – 3.4 | – 43.1 | •••• •••• |
| 5056 F O H24 | – – – | 2.63 2.63 2.63 | – – – | – – – | – – – | – – – | – – – | – 31.0 – | •••• •••• •••• |
| 5083 O | 71 | 2.66 | 580 - 645 | 24.5 | 109 | 27.7 | 6.1 | 28.3 | ••••• |
| 5251 O | 70 | 2.69 | 595 - 650 | 24 | 155 | 39.4 | 4.7 | 36.7 | ••••• |
| 6061 T4 T6 | 69 69 | 2.7 2.7 | 570 - 660 570 - 660 | 23.5 23.5 | 167 172 | 39.6 39.6 | 4.3 4.0 | 40.1 43.1 | •• •• |
| 6063 F O T4 T6 | 69 69 69 69 | 2.7 2.7 2.7 2.7 | 580 - 660 580 - 660 580 - 660 580 - 660 | 24 23.5 24 23.5 | 193 214 172 184 | 50.0 – 50.0 51.5 | 3.5 3.0 3.5 3.3 | – – 49.3 52.2 | – – ••• ••• |
| 6082 F O T4 T6 | 69 69 69 69 | 2.7 2.7 2.7 2.7 | 570 - 660 570 - 660 570 - 660 570 - 660 | 24 23.5 23.5 23.5 | 193 214 172 184 | 43.7 43.7 43.7 43.7 | 3.5 3.1 4.1 3.7 | – – 42.1 46.6 | ••• ••• ••• ••• |
| 6101 T6 | 69 | 2.7 | 620 - 655 | 23.5 | 214 | 54.4 | 3.133 max | 55.1 min | •••• |
| 7020 T4 T6 | – – | 2.78 2.78 | – – | – – | 134 134 | 34.0 34.0 | 4.6 4.6 | 37.5 37.5 | ••• ••• |
| 7075 T6 | 72 | 2.8 | 475 - 630 | 23.5 | 130 | 32.9 | 5.2 | 34 | • |

T = Special Pre-Treatment Required ••••• = Excellent, •••• = Very Good, ••• = Good, •• = Fair, • = Poor, – = Unsuitable

These properties have been calculated to provide a basis for comparison across a wide range of alloys. They are not minimum standards. All the alloys are covered by a national specification and most are covered by a British Standard, which should be used as a basis for design and purchasing contracts.



metalweb non aluminium

OTHER MATERIALS

Although the primary focus of metalweb is on aluminium materials we do increasingly stock other materials.

In particular this includes a range of stainless steel and other hi-spec materials such as titanium and maraging steels. This is ideally suitable for those customers in hi-tech industries who are looking for a 'one-stop' shop. The range of these specialist materials includes:

- American specification aerospace grade materials
- Stainless steels in a variety of grades (including 303, 304, 310, 316 and 321)
- AMS grade steels
- 13-8 PH, 15-5 PH, 17-4 PH
- 4130 tube & bar
- Maraging Steels
- Nickel based alloys
- Titanium

metalweb are part of Reliance Steel & Aluminum, the world's largest material stockholder group. As a consequence we have direct access to a wide range of materials and specifications held within the group.

This is especially true for American specification material that is difficult to source in Europe. Other materials stocked within the group include:

- Mild steels
- Tool steels
- Yellow metals including significant stocks of brass and copper
- Tin
- Other specialist alloys
- Perforated sheets in aluminium, mild, stainless and galvanised steel

With one telephone call to metalweb you can directly access the stocks of the world's largest material stockholder.

For items that we have stocked in the USA, or elsewhere in our group around the world, we can offer several delivery options depending on your time and cost requirements. So whatever material you need and whenever you need it we can provide it.

Of special significance Reliance are:

- The worlds largest stockholder of aerospace materials
- The worlds largest stockholder of carbon and stainless steel materials
- The world's largest stockholder of metallic materials to the oil and gas industry

Please feel free to call one of our UK sales branches to enquire for any of these other materials or send an email to info@metalweb.co.uk



metalweb stock availability

ALUMINIUM PLATE

Standard Plate Sizes Available*

Metric Sizes Available (mm)

| Length Metric | Width Metric | Gauge Metric | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | | |
|------------------|-----------------|-----------------|----------|-----------------------------|--|------|----------------------------|------|---------|------|------|---|
| | | | | | "Soft" Alloys (Non-heat treat) | | "Hard" Alloys (Heat treat) | | | | | |
| | | | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 | |
| 2000 | mm | x | 1000 | mm | x | 6.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 6.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 6.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 6.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 6.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 6.35 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 6.35 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 6.35 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 6.35 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 6.35 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 8.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 8.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 8.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 8.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 8.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 9.53 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 9.53 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 9.53 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 9.53 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 9.53 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 10.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 10.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 10.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 10.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 10.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 12.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 12.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 12.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 12.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 12.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM PLATE continued

Standard Plate Sizes Available*

Metric Sizes Available (mm)

Standard Commercial Alloy Availability**

"Soft" Alloys (Non-heat treat)

"Hard" Alloys (Heat treat)

| Length Metric | Width Metric | Gauge Metric | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | | | | | | |
|------------------|-----------------|-----------------|----------|-----------------------------|--|-------|------|---------------|-------|---------|------|------|---|---|---|---|
| | | | | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 | | | | |
| 2000 | mm | x | 1000 | mm | x | 12.7 | mm | (1/2") | 68.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 12.7 | mm | (1/2") | 107.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 12.7 | mm | (1/2") | 154.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 12.7 | mm | (1/2") | 275.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 12.7 | mm | (1/2") | 413.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 15.0 | mm | | 81.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 15.0 | mm | | 127.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 15.0 | mm | | 182.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 15.0 | mm | | 325.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 15.0 | mm | | 487.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 15.88 | mm | (5/8") | 86.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 15.88 | mm | (5/8") | 134.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 15.88 | mm | (5/8") | 193.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 15.88 | mm | (5/8") | 344.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 15.88 | mm | (5/8") | 516.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 16.0 | mm | | 86.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 16.0 | mm | | 135.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 16.0 | mm | | 195.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 16.0 | mm | | 346.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 16.0 | mm | | 520.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 19.05 | mm | (3/4") | 103.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 19.05 | mm | (3/4") | 161.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 19.05 | mm | (3/4") | 232.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 19.05 | mm | (3/4") | 413.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 19.05 | mm | (3/4") | 619.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 20.0 | mm | | 108.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 20.0 | mm | | 169.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 20.0 | mm | | 243.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 20.0 | mm | | 433.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 20.0 | mm | | 650.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM PLATE continued

Standard Plate Sizes Available*

Metric Sizes Available (mm)

Standard Commercial Alloy Availability**

"Soft" Alloys (Non-heat treat)

"Hard" Alloys (Heat treat)

| Length Metric | Width | | Gauge Metric | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | | | | | |
|------------------|--------|--------|-----------------|----------|-----------------------------|--|------|-------|---------------|----------|---------|------|------|---|---|---|
| | Metric | Metric | | | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 | | | |
| 2000 | mm | x 1000 | mm | x 22.23 | mm | (7/8") | x | 22.23 | mm | (7/8") | 120.5 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 22.23 | mm | (7/8") | x | 22.23 | mm | (7/8") | 188.3 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 22.23 | mm | (7/8") | x | 22.23 | mm | (7/8") | 271.1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 22.23 | mm | (7/8") | x | 22.23 | mm | (7/8") | 481.9 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 22.23 | mm | (7/8") | x | 22.23 | mm | (7/8") | 722.9 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 25.0 | mm | | x | 25.0 | mm | | 135.5 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 25.0 | mm | | x | 25.0 | mm | | 211.7 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 25.0 | mm | | x | 25.0 | mm | | 304.9 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 25.0 | mm | | x | 25.0 | mm | | 542.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 25.0 | mm | | x | 25.0 | mm | | 813.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 25.4 | mm | (1") | x | 25.4 | mm | (1") | 137.7 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 25.4 | mm | (1") | x | 25.4 | mm | (1") | 215.1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 25.4 | mm | (1") | x | 25.4 | mm | (1") | 309.8 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 25.4 | mm | (1") | x | 25.4 | mm | (1") | 550.7 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 25.4 | mm | (1") | x | 25.4 | mm | (1") | 826.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 28.57 | mm | (1 1/8") | x | 28.57 | mm | (1 1/8") | 154.8 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 28.57 | mm | (1 1/8") | x | 28.57 | mm | (1 1/8") | 242.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 28.57 | mm | (1 1/8") | x | 28.57 | mm | (1 1/8") | 348.4 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 28.57 | mm | (1 1/8") | x | 28.57 | mm | (1 1/8") | 619.4 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 28.57 | mm | (1 1/8") | x | 28.57 | mm | (1 1/8") | 929.1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 30.0 | mm | | x | 30.0 | mm | | 162.6 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 30.0 | mm | | x | 30.0 | mm | | 254.1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 30.0 | mm | | x | 30.0 | mm | | 365.9 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 30.0 | mm | | x | 30.0 | mm | | 650.4 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 30.0 | mm | | x | 30.0 | mm | | 975.6 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 31.75 | mm | (1 1/4") | x | 31.75 | mm | (1 1/4") | 172.1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 31.75 | mm | (1 1/4") | x | 31.75 | mm | (1 1/4") | 268.9 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 31.75 | mm | (1 1/4") | x | 31.75 | mm | (1 1/4") | 387.2 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 31.75 | mm | (1 1/4") | x | 31.75 | mm | (1 1/4") | 688.3 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 31.75 | mm | (1 1/4") | x | 31.75 | mm | (1 1/4") | 1,032.5 | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM PLATE continued

Standard Plate Sizes Available*

Metric Sizes Available (mm)

Standard Commercial Alloy Availability**

"Soft" Alloys (Non-heat treat)

"Hard" Alloys (Heat treat)

| Length Metric | Width Metric | Gauge Metric | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | | | | |
|------------------|-----------------|-----------------|----------|-----------------------------|--|-------|------|---------------|------|---------|------|------|---|---|
| | | | | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 | | |
| 2000 | mm | x | 1000 | mm | x | 32.0 | mm | 173.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 32.0 | mm | 271.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 32.0 | mm | 390.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 32.0 | mm | 693.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 32.0 | mm | 1,040.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 35.0 | mm | 189.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 35.0 | mm | 296.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 35.0 | mm | 426.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 35.0 | mm | 758.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 35.0 | mm | 1,138.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 38.1 | mm | 206.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 38.1 | mm | 322.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 38.1 | mm | 464.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 38.1 | mm | 826.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 38.1 | mm | 1,239.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 40.0 | mm | 216.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 40.0 | mm | 338.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 40.0 | mm | 487.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 40.0 | mm | 867.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 40.0 | mm | 1,300.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 44.45 | mm | 240.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 44.45 | mm | 376.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 44.45 | mm | 542.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 44.45 | mm | 963.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 44.45 | mm | 1,445.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 45.0 | mm | 243.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 45.0 | mm | 381.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 45.0 | mm | 548.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 45.0 | mm | 975.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 45.0 | mm | 1,463.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM PLATE continued

Standard Plate Sizes Available*

Metric Sizes Available (mm)

Standard Commercial Alloy Availability**

"Soft" Alloys (Non-heat treat)

"Hard" Alloys (Heat treat)

| Length Metric | Width | | Gauge Metric | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | | |
|------------------|--------|--------|-----------------|----------|-----------------------------|--|---------|------|---------------|------|---------|------|------|
| | Metric | Metric | | | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 |
| 2000 | mm | x 1000 | mm | x 50.0 | mm | x | 271.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 50.0 | mm | x | 423.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 50.0 | mm | x | 609.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 50.0 | mm | x | 1,084.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 50.0 | mm | x | 1,626.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 50.8 | mm | x | 275.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 50.8 | mm | x | 430.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 50.8 | mm | x | 619.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 50.8 | mm | x | 1,101.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 50.8 | mm | x | 1,652.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 55.0 | mm | x | 298.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 55.0 | mm | x | 465.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 55.0 | mm | x | 670.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 55.0 | mm | x | 1,192.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 55.0 | mm | x | 1,788.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 57.15 | mm | x | 309.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 57.15 | mm | x | 484.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 57.15 | mm | x | 696.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 57.15 | mm | x | 1,239.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 57.15 | mm | x | 1,858.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 60.0 | mm | x | 325.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 60.0 | mm | x | 508.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 60.0 | mm | x | 731.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 60.0 | mm | x | 1,300.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 60.0 | mm | x | 1,951.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 63.5 | mm | x | 344.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 63.5 | mm | x | 537.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 63.5 | mm | x | 774.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 63.5 | mm | x | 1,376.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 63.5 | mm | x | 2,065.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM PLATE continued

Standard Plate Sizes Available*

Metric Sizes Available (mm)

Standard Commercial Alloy Availability**

"Soft" Alloys (Non-heat treat)

"Hard" Alloys (Heat treat)

| Length Metric | Width Metric | Gauge Metric | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | | | | | | |
|------------------|-----------------|-----------------|----------|-----------------------------|--|-------|------|---------------|---------|---------|------|------|---|---|---|---|
| | | | | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 | | | | |
| 2000 | mm | x | 1000 | mm | x | 65.0 | mm | x | 352.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 65.0 | mm | x | 550.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 65.0 | mm | x | 792.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 65.0 | mm | x | 1,409.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 65.0 | mm | x | 2,113.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 69.85 | mm | (2 3/4") | 378.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 69.85 | mm | (2 3/4") | 591.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 69.85 | mm | (2 3/4") | 851.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 69.85 | mm | (2 3/4") | 1,514.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 69.85 | mm | (2 3/4") | 2,271.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 70.0 | mm | | 379.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 70.0 | mm | | 592.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 70.0 | mm | | 853.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 70.0 | mm | | 1,517.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 70.0 | mm | | 2,276.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 75.0 | mm | | 406.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 75.0 | mm | | 635.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 75.0 | mm | | 914.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 75.0 | mm | | 1,626.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 75.0 | mm | | 2,439.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 76.2 | mm | (3") | 413.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 76.2 | mm | (3") | 645.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 76.2 | mm | (3") | 929.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 76.2 | mm | (3") | 1,652.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 76.2 | mm | (3") | 2,478.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x | 1000 | mm | x | 80.0 | mm | | 433.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 80.0 | mm | | 677.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 80.0 | mm | | 975.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 80.0 | mm | | 1,734.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 80.0 | mm | | 2,601.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM PLATE continued

Standard Plate Sizes Available*

Metric Sizes Available (mm)

Standard Commercial Alloy Availability**

"Soft" Alloys (Non-heat treat)

"Hard" Alloys (Heat treat)

| Length Metric | Width | | Gauge | | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | | |
|------------------|--------|--------|--------|----------|-----------------------------|--|------|---------|---------------|------|---------|------|------|
| | Metric | Metric | Metric | Imperial | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 |
| 2000 | mm | x 1000 | mm | x 82.55 | mm | (3 1/4") | x | 447.4 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 82.55 | mm | (3 1/4") | x | 699.1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 82.55 | mm | (3 1/4") | x | 1,006.7 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 82.55 | mm | (3 1/4") | x | 1,789.7 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 82.55 | mm | (3 1/4") | x | 2,684.5 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 85.0 | mm | | x | 460.7 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 85.0 | mm | | x | 719.8 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 85.0 | mm | | x | 1,036.6 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 85.0 | mm | | x | 1,842.8 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 85.0 | mm | | x | 2,764.2 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 88.9 | mm | (3 1/2") | x | 481.8 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 88.9 | mm | (3 1/2") | x | 752.9 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 88.9 | mm | (3 1/2") | x | 1,084.1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 88.9 | mm | (3 1/2") | x | 1,927.4 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 88.9 | mm | (3 1/2") | x | 2,891.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 90.0 | mm | | x | 487.8 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 90.0 | mm | | x | 762.2 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 90.0 | mm | | x | 1,097.6 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 90.0 | mm | | x | 1,951.2 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 90.0 | mm | | x | 2,926.8 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 95.0 | mm | | x | 498.6 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 95.0 | mm | | x | 779.1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 95.0 | mm | | x | 1,121.9 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 95.0 | mm | | x | 1,994.6 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 95.0 | mm | | x | 2,991.8 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 | mm | x 1000 | mm | x 100.0 | mm | | x | 542.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x 1250 | mm | x 100.0 | mm | | x | 846.9 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x 1500 | mm | x 100.0 | mm | | x | 1,219.5 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x 2000 | mm | x 100.0 | mm | | x | 2,168.0 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x 2000 | mm | x 100.0 | mm | | x | 3,252.0 | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM PLATE continued

Standard Plate Sizes Available*

Metric Sizes Available (mm)

Standard Commercial Alloy Availability**

"Soft" Alloys (Non-heat treat)

"Hard" Alloys (Heat treat)

| Length Metric | Width Metric | Gauge Metric | Imperial | Weight per plate (Kg) | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 |
|------------------|-----------------|-----------------|----------|-----------------------------|------|------|------|---------------|------|---------|------|------|
| 2000 mm | X 1000 mm | X 101.6 mm | (4") | 550.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 101.6 mm | (4") | 860.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 101.6 mm | (4") | 1,239.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | X 2000 mm | X 101.6 mm | (4") | 2,202.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 mm | X 1000 mm | X 105.0 mm | | 569.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 105.0 mm | | 889.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 105.0 mm | | 1,280.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | X 2000 mm | X 105.0 mm | | 2,276.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 mm | X 1000 mm | X 107.95 mm | (4 1/4") | 585.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 107.95 mm | (4 1/4") | 914.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 107.95 mm | (4 1/4") | 1,316.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | X 2000 mm | X 107.95 mm | (4 1/4") | 2,340.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 mm | X 1000 mm | X 110.0 mm | | 596.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 110.0 mm | | 931.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 110.0 mm | | 1,341.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | X 2000 mm | X 110.0 mm | | 2,384.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 mm | X 1000 mm | X 114.3 mm | (4 1/2") | 619.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 114.3 mm | (4 1/2") | 968.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 114.3 mm | (4 1/2") | 1,393.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | X 2000 mm | X 114.3 mm | (4 1/2") | 2,478.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 mm | X 1000 mm | X 120.0 mm | | 650.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 120.0 mm | | 1,016.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 120.0 mm | | 1,463.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | X 2000 mm | X 120.0 mm | | 2,601.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 mm | X 1000 mm | X 125.0 mm | | 677.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 125.0 mm | | 1,058.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 125.0 mm | | 1,524.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | X 2000 mm | X 125.0 mm | | 2,710.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2000 mm | X 1000 mm | X 127.0 mm | (5") | 688.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 127.0 mm | (5") | 1,075.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM PLATE continued

Standard Plate Sizes Available*

Metric Sizes Available (mm)

Standard Commercial Alloy Availability**

"Soft" Alloys (Non-heat treat)

"Hard" Alloys (Heat treat)

| Length Metric | Width Metric | Gauge Metric | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | | |
|------------------|-----------------|-----------------|----------|-----------------------------|--|------|------|---------------|------|---------|------|------|
| | | | | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 |
| 2000 mm | X 1000 mm | X 190.5 mm | (7 1/2") | 1,032.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 190.5 mm | (7 1/2") | 1,613.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 190.5 mm | (7 1/2") | 2,323.1 | | | | | | | | |
| 2000 mm | X 1000 mm | X 200.0 mm | | 1,084.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 200.0 mm | | 1,693.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 200.0 mm | | 2,439.0 | | | | | | | | |
| 2000 mm | X 1000 mm | X 203.2 mm | (8") | 1,101.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 203.2 mm | (8") | 1,720.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 203.2 mm | (8") | 2,478.0 | | | | | | | | |
| 2000 mm | X 1000 mm | X 220.0 mm | | 1,192.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 220.0 mm | | 1,863.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 220.0 mm | | 2,682.9 | | | | | | | | |
| 2000 mm | X 1000 mm | X 228.6 mm | (9") | 1,239.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 228.6 mm | (9") | 1,936.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 228.6 mm | (9") | 2,787.8 | | | | | | | | |
| 2000 mm | X 1000 mm | X 230.0 mm | | 1,246.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 230.0 mm | | 1,947.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 230.0 mm | | 2,804.9 | | | | | | | | |
| 2000 mm | X 1000 mm | X 254.0 mm | (10") | 1,376.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 254.0 mm | (10") | 2,151.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 254.0 mm | (10") | 3,097.5 | | | | | | | | |
| 2000 mm | X 1000 mm | X 280.0 mm | | 1,517.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 280.0 mm | | 2,371.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 280.0 mm | | 3,414.6 | | | | | | | | |
| 2000 mm | X 1000 mm | X 305.0 mm | (12") | 1,653.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | X 1250 mm | X 305.0 mm | (12") | 2,583.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | X 1500 mm | X 305.0 mm | (12") | 3,719.5 | | | | | | | | |
| 2000 mm | X 1000 mm | X 330.0 mm | (13") | 1,788.6 | | | | | | | ✓ | |
| 2500 mm | X 1250 mm | X 330.0 mm | (13") | 2,794.7 | | | | | | | ✓ | |
| 3000 mm | X 1500 mm | X 330.0 mm | (13") | 4,024.4 | | | | | | | ✓ | |

ALUMINIUM PLATE continued

Standard Plate Sizes Available*

Metric Sizes Available (mm)

| Length Metric | Width Metric | Gauge Metric | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | "Hard" Alloys (Heat treat) | | | | |
|------------------|-----------------|-----------------|----------|-----------------------------|--|---------|------|---------------|----------------------------|---------|------|------|--|
| | | | | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | 7075 | |
| 2000 | mm | x 1000 | mm | x 340.0 | mm | 1,842.8 | | | | | | ✓ | |
| 2500 | mm | x 1250 | mm | x 340.0 | mm | 2,879.4 | | | | | | ✓ | |
| 3000 | mm | x 1500 | mm | x 340.0 | mm | 4,146.3 | | | | | | | |
| 2000 | mm | x 1000 | mm | x 350.0 | mm | 1,897.0 | | | | | | ✓ | |
| 2500 | mm | x 1250 | mm | x 350.0 | mm | 2,964.1 | | | | | | ✓ | |
| 3000 | mm | x 1500 | mm | x 350.0 | mm | 4,268.3 | | | | | | | |
| 2000 | mm | x 1000 | mm | x 381.0 | mm (15") | 2,065.0 | | | | | | ✓ | |
| 2500 | mm | x 1250 | mm | x 381.0 | mm (15") | 3,226.6 | | | | | | ✓ | |
| 3000 | mm | x 1500 | mm | x 381.0 | mm (15") | 4,646.3 | | | | | | | |
| 2000 | mm | x 1000 | mm | x 406.4 | mm (16") | 2,168.0 | | | | | ✓ | | |
| 2500 | mm | x 1250 | mm | x 406.4 | mm (16") | 3,387.5 | | | | | ✓ | | |
| 3000 | mm | x 1500 | mm | x 406.4 | mm (16") | 4,878.0 | | | | | | | |

1 - weight per plate based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

* - Please note these are only the standard metric sized plates available. We also have a number of imperial sized plates and the ability to cut to size to achieve any required plate size. In addition to the sizes shown we stock a large number of other sizes which aren't shown. In addition we stock a range of customer specific sizes.

** - Please note these are our most commonly used alloys but we also stock a range of other specialist alloys - so please enquire if you cannot see what you are looking for. We also have availability in a variety of tempers please ask for the temper you require.

***includes RSAC group stock availability.

We can supply to ASME or TUV standards when required.

metelweb has a range of specialised plate cutting equipment to produce the exact size required.

Full mill certificates are available.

CAL5® CAST PLATE

Standard Plate Sizes Available*

| Length | Metric | | Gauge | Length | Imperial | | Weight (kg) | | Standard Size Availability | |
|---------|--------|---------|-------|----------|----------|-------|-------------|-------|----------------------------|---|
| | Width | Width | | | Width | Gauge | Per Sq.m | Plate | | |
| 3670 mm | X | 1230 mm | X | 5.0 mm | 12' | X | 4' | 13.55 | 61.2 | ✓ |
| 3670 mm | X | 1540 mm | X | 5.0 mm | 12' | X | 6' | 13.55 | 76.6 | ✓ |
| 3670 mm | X | 1230 mm | X | 6.0 mm | 12' | X | 4' | 16.26 | 73.4 | ✓ |
| 3670 mm | X | 1540 mm | X | 6.0 mm | 12' | X | 6' | 16.26 | 91.9 | ✓ |
| 3670 mm | X | 1230 mm | X | 6.35 mm | 12' | X | 4' | 17.21 | 77.7 | ✓ |
| 3670 mm | X | 1540 mm | X | 6.35 mm | 12' | X | 6' | 17.21 | 97.3 | ✓ |
| 3670 mm | X | 1230 mm | X | 8.0 mm | 12' | X | 4' | 21.68 | 97.9 | ✓ |
| 3670 mm | X | 1540 mm | X | 8.0 mm | 12' | X | 6' | 21.68 | 122.5 | ✓ |
| 3670 mm | X | 1230 mm | X | 9.53 mm | 12' | X | 4' | 25.83 | 116.6 | ✓ |
| 3670 mm | X | 1540 mm | X | 9.53 mm | 12' | X | 6' | 25.83 | 146.0 | ✓ |
| 3670 mm | X | 1230 mm | X | 10.0 mm | 12' | X | 4' | 27.10 | 122.3 | ✓ |
| 3670 mm | X | 1540 mm | X | 10.0 mm | 12' | X | 6' | 27.10 | 153.2 | ✓ |
| 3670 mm | X | 1230 mm | X | 12.0 mm | 12' | X | 4' | 32.52 | 146.8 | ✓ |
| 3670 mm | X | 1540 mm | X | 12.0 mm | 12' | X | 6' | 32.52 | 183.8 | ✓ |
| 3670 mm | X | 1230 mm | X | 12.7 mm | 12' | X | 4' | 34.42 | 155.4 | ✓ |
| 3670 mm | X | 1540 mm | X | 12.7 mm | 12' | X | 6' | 34.42 | 194.5 | ✓ |
| 3670 mm | X | 1230 mm | X | 15.0 mm | 12' | X | 4' | 40.65 | 183.5 | ✓ |
| 3670 mm | X | 1540 mm | X | 15.0 mm | 12' | X | 6' | 40.65 | 229.7 | ✓ |
| 3670 mm | X | 1230 mm | X | 15.88 mm | 12' | X | 4' | 43.03 | 194.2 | ✓ |
| 3670 mm | X | 1540 mm | X | 15.88 mm | 12' | X | 6' | 43.03 | 243.2 | ✓ |
| 3670 mm | X | 1230 mm | X | 16.0 mm | 12' | X | 4' | 43.36 | 195.7 | ✓ |
| 3670 mm | X | 1540 mm | X | 16.0 mm | 12' | X | 6' | 43.36 | 245.1 | ✓ |
| 3670 mm | X | 1230 mm | X | 19.05 mm | 12' | X | 4' | 51.63 | 233.1 | ✓ |
| 3670 mm | X | 1540 mm | X | 19.05 mm | 12' | X | 6' | 51.63 | 291.8 | ✓ |
| 3670 mm | X | 1230 mm | X | 20.0 mm | 12' | X | 4' | 54.20 | 244.7 | ✓ |
| 3670 mm | X | 1540 mm | X | 20.0 mm | 12' | X | 6' | 54.20 | 306.3 | ✓ |
| 3670 mm | X | 1230 mm | X | 22.23 mm | 12' | X | 4' | 60.24 | 271.9 | ✓ |
| 3670 mm | X | 1540 mm | X | 22.23 mm | 12' | X | 6' | 60.24 | 340.5 | ✓ |
| 3670 mm | X | 1230 mm | X | 25.0 mm | 12' | X | 4' | 67.75 | 305.8 | ✓ |
| 3670 mm | X | 1540 mm | X | 25.0 mm | 12' | X | 6' | 67.75 | 382.9 | ✓ |

CAL5® CAST PLATE continued

Standard Plate Sizes Available*

| Length | Metric | | Gauge | Length | Imperial | | Weight (Kg) | | Standard Size Availability | |
|---------|--------|---------|------------|--------|----------|-------|-------------|--------|----------------------------|---|
| | Width | Width | | | Width | Gauge | Per Sq.m | Plate | | |
| 3670 mm | X | 1230 mm | X 25.4 mm | 12' | X | 4' | 1" | 68.83 | 310.7 | ✓ |
| 3670 mm | X | 1540 mm | X 25.4 mm | 12' | X | 6' | 1" | 68.83 | 389.0 | ✓ |
| 3670 mm | X | 1230 mm | X 30.0 mm | 12' | X | 4' | | 81.30 | 367.0 | ✓ |
| 3670 mm | X | 1540 mm | X 30.0 mm | 12' | X | 6' | | 81.30 | 459.5 | ✓ |
| 3670 mm | X | 1230 mm | X 31.75 mm | 12' | X | 4' | 1 1/4" | 86.04 | 388.4 | ✓ |
| 3670 mm | X | 1540 mm | X 31.75 mm | 12' | X | 6' | 1 1/4" | 86.04 | 486.3 | ✓ |
| 3670 mm | X | 1230 mm | X 32.0 mm | 12' | X | 4' | | 86.72 | 391.5 | ✓ |
| 3670 mm | X | 1540 mm | X 32.0 mm | 12' | X | 6' | | 86.72 | 490.1 | ✓ |
| 3670 mm | X | 1230 mm | X 35.0 mm | 12' | X | 4' | | 94.85 | 428.2 | ✓ |
| 3670 mm | X | 1540 mm | X 35.0 mm | 12' | X | 6' | | 94.85 | 536.1 | ✓ |
| 3670 mm | X | 1230 mm | X 38.1 mm | 12' | X | 4' | 1 1/2" | 103.25 | 466.1 | ✓ |
| 3670 mm | X | 1540 mm | X 38.1 mm | 12' | X | 6' | 1 1/2" | 103.25 | 583.5 | ✓ |
| 3670 mm | X | 1230 mm | X 40.0 mm | 12' | X | 4' | | 108.40 | 489.3 | ✓ |
| 3670 mm | X | 1540 mm | X 40.0 mm | 12' | X | 6' | | 108.40 | 612.7 | ✓ |
| 3670 mm | X | 1230 mm | X 44.45 mm | 12' | X | 4' | 1 3/4" | 120.46 | 543.8 | ✓ |
| 3670 mm | X | 1540 mm | X 44.45 mm | 12' | X | 6' | 1 3/4" | 120.46 | 680.8 | ✓ |
| 3670 mm | X | 1230 mm | X 45.0 mm | 12' | X | 4' | | 121.95 | 550.5 | ✓ |
| 3670 mm | X | 1540 mm | X 45.0 mm | 12' | X | 6' | | 121.95 | 689.2 | ✓ |
| 3670 mm | X | 1230 mm | X 50.0 mm | 12' | X | 4' | | 135.50 | 611.7 | ✓ |
| 3670 mm | X | 1540 mm | X 50.0 mm | 12' | X | 6' | | 135.50 | 765.8 | ✓ |
| 3670 mm | X | 1230 mm | X 50.8 mm | 12' | X | 4' | 2" | 137.67 | 621.5 | ✓ |
| 3670 mm | X | 1540 mm | X 50.8 mm | 12' | X | 6' | 2" | 137.67 | 778.1 | ✓ |
| 3670 mm | X | 1230 mm | X 57.15 mm | 12' | X | 4' | 2 1/4" | 154.88 | 699.1 | ✓ |
| 3670 mm | X | 1540 mm | X 57.15 mm | 12' | X | 6' | 2 1/4" | 154.88 | 875.3 | ✓ |
| 3670 mm | X | 1230 mm | X 60.0 mm | 12' | X | 4' | | 162.60 | 734.0 | ✓ |
| 3670 mm | X | 1540 mm | X 60.0 mm | 12' | X | 6' | | 162.60 | 919.0 | ✓ |
| 3670 mm | X | 1230 mm | X 63.5 mm | 12' | X | 4' | 2 1/2" | 172.09 | 776.8 | ✓ |
| 3670 mm | X | 1540 mm | X 63.5 mm | 12' | X | 6' | 2 1/2" | 172.09 | 972.6 | ✓ |
| 3670 mm | X | 1230 mm | X 65.0 mm | 12' | X | 4' | | 176.16 | 795.2 | ✓ |

CAL5® CAST PLATE continued

Standard Plate Sizes Available*

| Metric | | | Imperial | | | Weight (Kg) | | Standard |
|---------|-----------|------------|----------|-------|--------|-------------|---------|-------------------|
| Length | Width | Gauge | Length | Width | Gauge | Per Sq.m | Plate | Size Availability |
| 3670 mm | x 1540 mm | x 65.0 mm | 12' | x 6' | | 176.16 | 995.6 | ✓ |
| 3670 mm | x 1230 mm | x 69.85 mm | 12' | x 4' | 2 3/4" | 189.30 | 854.5 | ✓ |
| 3670 mm | x 1540 mm | x 69.85 mm | 12' | x 6' | 2 3/4" | 189.30 | 1,069.9 | ✓ |
| 3670 mm | x 1230 mm | x 70.0 mm | 12' | x 4' | | 189.70 | 856.3 | ✓ |
| 3670 mm | x 1540 mm | x 70.0 mm | 12' | x 6' | | 189.70 | 1,072.1 | ✓ |
| 3670 mm | x 1230 mm | x 75.0 mm | 12' | x 4' | | 203.25 | 917.5 | ✓ |
| 3670 mm | x 1540 mm | x 75.0 mm | 12' | x 6' | | 203.25 | 1,148.7 | ✓ |
| 3670 mm | x 1230 mm | x 76.2 mm | 12' | x 4' | 3" | 206.50 | 932.2 | ✓ |
| 3670 mm | x 1540 mm | x 76.2 mm | 12' | x 6' | 3" | 206.50 | 1,167.1 | ✓ |

Non-standard dimensions are also available - please ask for details
 metalweb has a range of specialised plate cutting equipment to produce the exact size required
 Protective coating on cast plate can also be provided.

ALUMINIUM SHEET

Standard Sheet Sizes Available*

| Length Metric | Metric Sizes Available (mm) | | Gauge Metric | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | |
|------------------|-----------------------------|---------|-----------------|-----------------|-----------------------------|--|----------------------------|------|---------------|------|---------|------|
| | Width Metric | | | | | "Soft" Alloys (Non-heat treat) | "Hard" Alloys (Heat treat) | | | | | |
| | | | | | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 |
| 2000 mm | x | 1000 mm | x | 0.45 mm (26swg) | 2.4 | ✓ | | | | ✓ | | ✓ |
| 2500 mm | x | 1250 mm | x | 0.45 mm (26swg) | 3.8 | ✓ | | | | | | |
| 3000 mm | x | 1500 mm | x | 0.45 mm (26swg) | 5.5 | | | | | | | |
| 4000 mm | x | 2000 mm | x | 0.45 mm (26swg) | 9.8 | | | | | | | |
| 6000 mm | x | 2000 mm | x | 0.45 mm (26swg) | 14.6 | | | | | | | |
| 2000 mm | x | 1000 mm | x | 0.5 mm | 2.7 | ✓ | | ✓ | | ✓ | | ✓ |
| 2500 mm | x | 1250 mm | x | 0.5 mm | 4.2 | ✓ | | ✓ | | | | ✓ |
| 3000 mm | x | 1500 mm | x | 0.5 mm | 6.1 | | | | | | | |
| 4000 mm | x | 2000 mm | x | 0.5 mm | 10.8 | | | | | | | |
| 6000 mm | x | 2000 mm | x | 0.5 mm | 16.3 | | | | | | | |
| 2000 mm | x | 1000 mm | x | 0.6 mm | 3.3 | ✓ | | ✓ | | | ✓ | ✓ |
| 2500 mm | x | 1250 mm | x | 0.6 mm | 5.1 | ✓ | | ✓ | | | ✓ | ✓ |
| 3000 mm | x | 1500 mm | x | 0.6 mm | 7.3 | | | | | | | |
| 4000 mm | x | 2000 mm | x | 0.6 mm | 13.0 | | | | | | | |
| 6000 mm | x | 2000 mm | x | 0.6 mm | 19.5 | | | | | | | |
| 2000 mm | x | 1000 mm | x | 0.65 mm | 3.5 | ✓ | | ✓ | | ✓ | | ✓ |
| 2500 mm | x | 1250 mm | x | 0.65 mm | 5.5 | ✓ | | ✓ | | ✓ | | ✓ |
| 3000 mm | x | 1500 mm | x | 0.65 mm | 7.9 | | | | | | | |
| 4000 mm | x | 2000 mm | x | 0.65 mm | 14.1 | | | | | | | |
| 6000 mm | x | 2000 mm | x | 0.65 mm | 21.1 | | | | | | | |
| 2000 mm | x | 1000 mm | x | 0.7 mm | 3.8 | ✓ | | ✓ | | ✓ | | ✓ |
| 2500 mm | x | 1250 mm | x | 0.7 mm | 5.9 | ✓ | | ✓ | | ✓ | | ✓ |
| 3000 mm | x | 1500 mm | x | 0.7 mm | 8.5 | | | | | | | |
| 4000 mm | x | 2000 mm | x | 0.7 mm | 15.2 | | | | | | | |
| 6000 mm | x | 2000 mm | x | 0.7 mm | 22.8 | | | | | | | |
| 2000 mm | x | 1000 mm | x | 0.71 mm (22swg) | 3.8 | ✓ | | ✓ | | ✓ | | ✓ |
| 2500 mm | x | 1250 mm | x | 0.71 mm (22swg) | 6.0 | ✓ | | ✓ | | ✓ | | ✓ |
| 3000 mm | x | 1500 mm | x | 0.71 mm (22swg) | 8.7 | | | | | | | ✓ |
| 4000 mm | x | 2000 mm | x | 0.71 mm (22swg) | 15.4 | | | | | | | ✓ |
| 6000 mm | x | 2000 mm | x | 0.71 mm (22swg) | 23.1 | | | | | | | ✓ |

ALUMINIUM SHEET continued

| Standard Sheet Sizes Available* | | | | | | | | | | Standard Commercial Alloy Availability** | | | | | | | |
|---------------------------------|--------|-------|--------|--------|--------|----------|---------------|-----------------------|--------|--|------|------|---------------|------|----------------------------|------|--|
| Metric Sizes Available (mm) | | Width | | Gauge | | Imperial | | Weight per plate (Kg) | | "Soft" Alloys (Non-heat treat) | | | | | "Hard" Alloys (Heat treat) | | |
| Length | Metric | Width | Metric | Length | Metric | Width | Imperial | Length | Metric | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** | 6082 | |
| 2000 | mm | x | 1000 | mm | x | 0.8 | mm | | 4.3 | ✓ | | ✓ | | | | | |
| 2500 | mm | x | 1250 | mm | x | 0.8 | mm | | 6.8 | ✓ | | ✓ | | | | | |
| 3000 | mm | x | 1500 | mm | x | 0.8 | mm | | 9.8 | | | | | | | | |
| 4000 | mm | x | 2000 | mm | x | 0.8 | mm | | 17.3 | | | | | | | | |
| 6000 | mm | x | 2000 | mm | x | 0.8 | mm | | 26.0 | | | | | | | | |
| 2000 | mm | x | 1000 | mm | x | 0.813 | mm (21swg) | | 4.4 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 2500 | mm | x | 1250 | mm | x | 0.813 | mm (21swg) | | 6.9 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 3000 | mm | x | 1500 | mm | x | 0.813 | mm (21swg) | | 9.9 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 4000 | mm | x | 2000 | mm | x | 0.813 | mm (21swg) | | 17.6 | | | | | | | | |
| 6000 | mm | x | 2000 | mm | x | 0.813 | mm (21swg) | | 26.4 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 2000 | mm | x | 1000 | mm | x | 0.9 | mm | | 4.9 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 2500 | mm | x | 1250 | mm | x | 0.9 | mm | | 7.6 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 3000 | mm | x | 1500 | mm | x | 0.9 | mm | | 11.0 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 4000 | mm | x | 2000 | mm | x | 0.9 | mm | | 19.5 | | | | | | | | |
| 6000 | mm | x | 2000 | mm | x | 0.9 | mm | | 29.3 | | | | | | | | |
| 2000 | mm | x | 1000 | mm | x | 0.91 | mm (20swg) | | 4.9 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 2500 | mm | x | 1250 | mm | x | 0.91 | mm (20swg) | | 7.7 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 3000 | mm | x | 1500 | mm | x | 0.91 | mm (20swg) | | 11.1 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 4000 | mm | x | 2000 | mm | x | 0.91 | mm (20swg) | | 19.7 | | | | | | | | |
| 6000 | mm | x | 2000 | mm | x | 0.91 | mm (20swg) | | 29.6 | | | | | | | | |
| 2000 | mm | x | 1000 | mm | x | 1.0 | mm | | 5.4 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 2500 | mm | x | 1250 | mm | x | 1.0 | mm | | 8.5 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 3000 | mm | x | 1500 | mm | x | 1.0 | mm | | 12.2 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 4000 | mm | x | 2000 | mm | x | 1.0 | mm | | 21.7 | | | | | | | | |
| 6000 | mm | x | 2000 | mm | x | 1.0 | mm | | 32.5 | | | | | | | | |
| 2000 | mm | x | 1000 | mm | x | 1.2 | mm | | 6.5 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 2500 | mm | x | 1250 | mm | x | 1.2 | mm | | 10.2 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 3000 | mm | x | 1500 | mm | x | 1.2 | mm | | 14.6 | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 4000 | mm | x | 2000 | mm | x | 1.2 | mm | | 26.0 | | | | | | | | |
| 6000 | mm | x | 2000 | mm | x | 1.2 | mm | | 39.0 | | | | | | | | |

ALUMINIUM SHEET continued

| Standard Sheet Sizes Available* | | | | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | |
|---------------------------------|-----------------|-----------------|----------|-----------------------------|--|------|------|----------------------------|------|---------|
| Metric Sizes Available (mm) | | | | | "Soft" Alloys (Non-heat treat) | | | "Hard" Alloys (Heat treat) | | |
| Length Metric | Width Metric | Gauge Metric | Imperial | | 1050 | 3103 | 5083 | 5251/ 5754 | 2014 | 6061*** |
| 2000 mm | x 1000 mm | x 1.22 mm | (18swg) | 6.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | x 1250 mm | x 1.22 mm | (18swg) | 10.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | x 1500 mm | x 1.22 mm | (18swg) | 14.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | x 2000 mm | x 1.22 mm | (18swg) | 26.4 | | | | | | |
| 6000 mm | x 2000 mm | x 1.22 mm | (18swg) | 39.7 | | | | | | |
| 2000 mm | x 1000 mm | x 1.5 mm | | 8.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | x 1250 mm | x 1.5 mm | | 12.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | x 1500 mm | x 1.5 mm | | 18.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | x 2000 mm | x 1.5 mm | | 32.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 mm | x 2000 mm | x 1.5 mm | | 48.8 | ✓ | | | | | |
| 2000 mm | x 1000 mm | x 1.55 mm | | 8.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | x 1250 mm | x 1.55 mm | | 13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | x 1500 mm | x 1.55 mm | | 18.9 | ✓ | | | | | |
| 4000 mm | x 2000 mm | x 1.55 mm | | 33.6 | ✓ | | | | | |
| 6000 mm | x 2000 mm | x 1.55 mm | | 50.4 | ✓ | | | | | |
| 2000 mm | x 1000 mm | x 1.6 mm | | 8.7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | x 1250 mm | x 1.6 mm | | 13.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | x 1500 mm | x 1.6 mm | | 19.5 | | | | | ✓ | |
| 4000 mm | x 2000 mm | x 1.6 mm | | 34.7 | | | | | | |
| 6000 mm | x 2000 mm | x 1.6 mm | | 52.0 | | | | | | |
| 2000 mm | x 1000 mm | x 1.63 mm | (16swg) | 8.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | x 1250 mm | x 1.63 mm | (16swg) | 13.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | x 1500 mm | x 1.63 mm | (16swg) | 19.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | x 2000 mm | x 1.63 mm | (16swg) | 35.3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 mm | x 2000 mm | x 1.63 mm | (16swg) | 53.0 | ✓ | | | | | |
| 2000 mm | x 1000 mm | x 2.0 mm | | 10.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 mm | x 1250 mm | x 2.0 mm | | 16.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 mm | x 1500 mm | x 2.0 mm | | 24.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 mm | x 2000 mm | x 2.0 mm | | 43.4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 mm | x 2000 mm | x 2.0 mm | | 65.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM SHEET *continued*

| Standard Sheet Sizes Available* | | Metric Sizes Available (mm) | | Gauge | Imperial | Weight per plate (Kg) | Standard Commercial Alloy Availability** | | | | | | |
|---------------------------------|--------|-----------------------------|--------|--------|----------|-----------------------|--|----------------------------|------|-----------|------|---------|------|
| Length | Width | Metric | Metric | Metric | | | "Soft" Alloys (Non-heat treat) | "Hard" Alloys (Heat treat) | | | | | |
| Metric | Metric | Metric | Metric | Metric | | | 1050 | 3103 | 5083 | 5251/5754 | 2014 | 6061*** | 6082 |
| 2000 | mm | x | 1000 | mm | x | 5.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2500 | mm | x | 1250 | mm | x | 5.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3000 | mm | x | 1500 | mm | x | 5.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4000 | mm | x | 2000 | mm | x | 5.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6000 | mm | x | 2000 | mm | x | 5.0 | mm | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

1 - weight per sheet based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

* - Please note these are only the standard metric sized sheets available. We also have a number of imperial sized sheets and the ability to cut to size to achieve any required sheet size. In addition to the sizes shown we stock a large number of other sizes which aren't shown. In addition we stock a range of customer specific sizes.

** - Please note these are our most commonly used alloys but we also stock a range of other specialist alloys - so please enquire if you cannot see what you are looking for. We also have availability in a variety of tempers please ask for the temper you require. For 2014 clad sheet is also available. 7075 sheet both bare and clad is available from RSAC group stocks, often in imperial sizes.

***includes RSAC group stock availability/imperial sized equivalents

Sheets can be supplied with a protective coating.

ALUMINIUM ROUND BAR



Please note standard bar lengths are usually available in 3 metre, 4 metre and 5 metre lengths but other lengths are available plus we have the ability to cut bars to size for any required finished length

| Diameter Metric | Imperial | Weight (Kg) per m 3m bar ¹ | "Soft" Alloys (Non-heat treat) | | | "Hard" Alloys (Heat treat) ² | | | | | | |
|--------------------|----------|---|--------------------------------|------|------|---|-------|------|------|------|--|---|
| | | | 1050 | 5083 | 2011 | 2014 | 6061* | 6082 | 6262 | 7075 | | |
| 6.0 mm | | 0.076 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 6.35 mm | (1/4") | 0.089 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 7.94 mm | (5/16") | 0.134 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 8.0 mm | | 0.136 | | | ✓ | | | | | | | |
| 8.73 mm | (11/32") | 0.172 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 9.53 mm | (3/8") | 0.199 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 10.0 mm | | 0.211 | | ✓ | ✓ | | | | | | | ✓ |
| 11.11 mm | (7/16") | 0.271 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 12.0 mm | | 0.305 | ✓ | | | | | | | | | ✓ |
| 12.7 mm | (1/2") | 0.354 | | ✓ | ✓ | | | | | | | ✓ |
| 14.29 mm | (9/16") | 0.448 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 15.0 mm | | 0.479 | ✓ | | | | | | | | | ✓ |
| 15.88 mm | (5/8") | 0.554 | | ✓ | | ✓ | ✓ | ✓ | | | | ✓ |
| 17.46 mm | (11/16") | 0.670 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 18.0 mm | | 0.685 | | ✓ | | | | | | | | ✓ |
| 19.05 mm | (3/4") | 0.796 | | ✓ | | ✓ | ✓ | ✓ | | | | ✓ |
| 20.0 mm | | 0.852 | ✓ | | | | | | | | | ✓ |
| 20.64 mm | (13/16") | 0.933 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 22.0 mm | | 1.03 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 22.23 mm | (7/8") | 1.08 | | ✓ | | ✓ | ✓ | ✓ | | | | ✓ |
| 23.82 mm | (15/16") | 1.21 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 25.0 mm | | 1.32 | ✓ | | | ✓ | ✓ | ✓ | | | | ✓ |
| 25.4 mm | (1") | 1.41 | | ✓ | | ✓ | ✓ | ✓ | | | | ✓ |
| 28.58 mm | (1 1/8") | 1.79 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 30.0 mm | | 1.92 | ✓ | | | | | | | | | ✓ |
| 31.75 mm | (1 1/4") | 2.20 | | ✓ | | ✓ | ✓ | ✓ | | | | ✓ |
| 34.93 mm | (1 3/8") | 2.59 | | | | ✓ | ✓ | ✓ | | | | ✓ |
| 35.0 mm | | 2.61 | ✓ | | | ✓ | ✓ | ✓ | | | | ✓ |
| 38.1 mm | (1 1/2") | 3.19 | | ✓ | | ✓ | ✓ | ✓ | | | | ✓ |
| 40.0 mm | | 3.41 | ✓ | | | ✓ | ✓ | ✓ | | | | ✓ |

ALUMINIUM ROUND BAR *continued*



Please note standard bar lengths are usually available in 3 metre, 4 metre and 5 metre lengths but other lengths are available plus we have the ability to cut bars to size for any required finished length

| Diameter Metric | Imperial | Weight (kg) per m 3m bar ¹ | "Soft" Alloys (Non-heat treat) | | | "Hard" Alloys (Heat treat) ² | | | | |
|--------------------|----------|---|--------------------------------|------|------|---|-------|------|------|------|
| | | | 1050 | 5083 | 2011 | 2014 | 6061* | 6082 | 6262 | 7075 |
| 41.28 mm | (1 5/8") | 3.74 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 44.45 mm | (1 3/4") | 4.21 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 45.0 mm | | 4.31 | | | | | | | | |
| 47.63 mm | (1 7/8") | 4.97 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 50.0 mm | | 5.32 | ✓ | | | | | | | |
| 50.8 mm | (2") | 6.44 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 53.98 mm | (2 1/8") | 6.96 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 55.0 mm | | 6.44 | | | | | | | | |
| 57.15 mm | (2 1/4") | 6.96 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 60.0 mm | | 7.66 | ✓ | | | | | | | |
| 60.33 mm | (2 3/8") | 7.75 | | | | | | | | |
| 63.5 mm | (2 1/2") | 8.86 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 65.0 mm | | 9.00 | | | | | | | | |
| 66.68 mm | (2 5/8") | 9.47 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 69.85 mm | (2 3/4") | 10.40 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 70.0 mm | | 10.44 | | | | | | | | |
| 73.03 mm | (2 7/8") | 11.40 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 75.0 mm | | 11.98 | | | | | | | | |
| 76.2 mm | (3") | 12.37 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 80.0 mm | | 13.63 | | | | | | | | |
| 82.55 mm | (3 1/4") | 14.57 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 85.0 mm | | 15.39 | | | | | | | | |
| 85.73 mm | (3 3/8") | 15.67 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 88.9 mm | (3 1/2") | 16.82 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 90.0 mm | | 17.25 | | | | | | | | |
| 92.08 mm | (3 5/8") | 18.02 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 95.25 mm | (3 3/4") | 19.35 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 98.43 mm | (3 7/8") | 20.70 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 100.0 mm | | 21.30 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 101.6 mm | (4") | 22.02 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM ROUND BAR *continued*

Please note standard bar lengths are usually available in 3 metre, 4 metre and 5 metre lengths but other lengths are available plus we have the ability to cut bars to size for any required finished length

| Diameter <i>Metric</i> | <i>Imperial</i> | Weight (Kg) per m 3m bar ¹ | "Soft" Alloys (Non-heat treat) | | | "Hard" Alloys (Heat treat) ² | | | | | |
|---------------------------|-----------------|---|--------------------------------|------|------|---|-------|------|------|------|---|
| | | | 1050 | 5083 | 2011 | 2014 | 6061* | 6082 | 6262 | 7075 | |
| 104.78 mm | (4 1/8") | 23.38 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 107.95 mm | (4 1/4") | 24.85 | | | | ✓ | ✓ | | | | ✓ |
| 110.0 mm | | 25.77 | | | | | | | | | ✓ |
| 111.13 mm | (4 3/8") | 26.23 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 114.3 mm | (4 1/2") | 27.83 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 117.48 mm | (4 5/8") | 29.64 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 120.0 mm | | 30.96 | | | | ✓ | ✓ | | | | ✓ |
| 123.83 mm | (4 7/8") | 32.73 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 127.0 mm | (5") | 34.40 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 130.0 mm | | 35.97 | | | | | | | | | ✓ |
| 130.18 mm | (5 1/8") | 35.98 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 133.35 mm | (5 1/4") | 37.80 | | | | ✓ | ✓ | | | | ✓ |
| 135.0 mm | | 38.27 | | | | | | | | | ✓ |
| 139.7 mm | (5 1/2") | 41.57 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 146.05 mm | (5 3/4") | 45.40 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 150.0 mm | | 47.92 | | | | | | | | | ✓ |
| 152.4 mm | (6") | 49.40 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 155.58 mm | (6 1/8") | 51.56 | | | | | | | | | ✓ |
| 158.75 mm | (6 1/4") | 54.50 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 160.0 mm | | 54.53 | ✓ | | | | | | | | ✓ |
| 161.93 mm | (6 3/8") | 55.85 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 165.1 mm | (6 1/2") | 58.00 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 170.0 mm | | 59.72 | | | | ✓ | | | | | ✓ |
| 171.45 mm | (6 3/4") | 62.50 | ✓ | | | | | | | | ✓ |
| 175.0 mm | | 65.23 | | | | | | | | | ✓ |
| 177.8 mm | (7") | 67.30 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 180.0 mm | | 69.01 | | | | | | | | | ✓ |
| 184.15 mm | (7 1/4") | 72.10 | | | | ✓ | ✓ | | | | ✓ |
| 185.0 mm | | 72.43 | ✓ | | | ✓ | ✓ | | | | ✓ |
| 190.5 mm | (7 1/2") | 77.20 | ✓ | | | | | | | | ✓ |

ALUMINIUM ROUND BAR *continued*



Please note standard bar lengths are usually available in 3 metre, 4 metre and 5 metre lengths but other lengths are available plus we have the ability to cut bars to size for any required finished length

| Diameter <i>Metric</i> | <i>Imperial</i> | Weight (kg) per m 3m bar ¹ | "Soft" Alloys (Non-heat treat) | | | "Hard" Alloys (Heat treat) ² | | | | | | |
|---------------------------|-----------------|---|--------------------------------|------|------|---|-------|------|------|------|--|---|
| | | | 1050 | 5083 | 2011 | 2014 | 6061* | 6082 | 6262 | 7075 | | |
| 196.85 mm | (7 ¾") | 82.54 | 247.6 | | | ✓ | ✓ | | | | | ✓ |
| 200.0 mm | | 85.20 | 255.6 | ✓ | | | | | | | | |
| 208.2 mm | (8") | 87.95 | 263.8 | | ✓ | | | | | | | ✓ |
| 209.55 mm | (8 ¼") | 93.53 | 280.6 | ✓ | | | | | | | | ✓ |
| 215.9 mm | (8 ½") | 99.30 | 297.9 | ✓ | | | | | | | | ✓ |
| 220.0 mm | | 103.1 | 309.3 | | | | | | | | | ✓ |
| 222.25 mm | (8 ¾") | 105.2 | 315.6 | | | | ✓ | | | | | ✓ |
| 228.6 mm | (9") | 111.3 | 333.9 | ✓ | | | | | | | | ✓ |
| 230.0 mm | | 112.7 | 338.1 | | | | | | | | | ✓ |
| 234.95 mm | (9 ¼") | 117.6 | 352.7 | | | | ✓ | | | | | ✓ |
| 241.3 mm | (9 ½") | 124.7 | 374.1 | | | | ✓ | | | | | ✓ |
| 250.0 mm | | 133.1 | 399.3 | ✓ | | | | | | | | ✓ |
| 254.0 mm | (10") | 137.4 | 412.2 | | | | ✓ | | | | | ✓ |
| 260.0 mm | | 144.0 | 432.0 | | | | | | | | | ✓ |
| 260.35 mm | (10 ¼") | 144.4 | 433.1 | | | | ✓ | | | | | ✓ |
| 266.7 mm | (10 ½") | 150.6 | 451.8 | ✓ | | | | | | | | ✓ |
| 279.4 mm | (11") | 166.2 | 498.6 | ✓ | | | ✓ | | | | | ✓ |
| 285.75 mm | (11 ¼") | 173.9 | 521.8 | ✓ | | | ✓ | | | | | ✓ |
| 292.1 mm | (11 ½") | 181.7 | 545.2 | | | | ✓ | | | | | ✓ |
| 300.0 mm | | 191.7 | 575.1 | ✓ | | | | | | | | ✓ |
| 304.8 mm | (12") | 198.0 | 594.0 | | | | ✓ | | | | | ✓ |
| 310.0 mm | | 204.7 | 614.1 | | | | ✓ | | | | | ✓ |
| 311.15 mm | (12 ¼") | 205.9 | 617.7 | ✓ | | | | | | | | ✓ |
| 320.0 mm | | 218.1 | 654.3 | | | | | | | | | ✓ |
| 325.0 mm | | 225.0 | 675.0 | | | | | | | | | ✓ |
| 330.2 mm | (13") | 231.8 | 695.4 | | | | ✓ | | | | | ✓ |
| 342.9 mm | (13 ½") | 240.7 | 722.1 | | | | | | | | | ✓ |
| 350.0 mm | | 245.7 | 737.1 | ✓ | | | | | | | | ✓ |
| 355.6 mm | (14") | 269.8 | 809.4 | | | | ✓ | | | | | ✓ |
| 360.0 mm | | 276.0 | 828.0 | | | | | | | | | ✓ |

ALUMINIUM ROUND BAR *continued*

Please note standard bar lengths are usually available in 3 metre, 4 metre and 5 metre lengths but other lengths are available plus we have the ability to cut bars to size for any required finished length

| Size <i>Metric</i> | <i>Imperial</i> | Weight (Kg) per m 3m bar ¹ | "Soft" Alloys (Non-heat treat) | | | "Hard" Alloys (Heat treat) ² | | | | |
|-----------------------|-----------------|---|--------------------------------|------|------|---|-------|------|------|------|
| | | | 1050 | 5083 | 2011 | 2014 | 6061* | 6082 | 6262 | 7075 |
| 381.0 mm | (15") | 309.2 | ✓ | | | | ✓ | | | ✓ |
| 400.0 mm | | 340.7 | | | | | ✓ | | | ✓ |
| 406.4 mm | (16") | 351.0 | | | | | ✓ | | | ✓ |
| 410.0 mm | | 358.1 | ✓ | | | | ✓ | | | ✓ |
| 430.0 mm | | 375.5 | | | | | ✓ | | | |
| 431.8 mm | (17") | 377.1 | | | | | ✓ | | | ✓ |
| 450.0 mm | | 431.3 | | | | | ✓ | | | |
| 463.6 mm | (18 ¼") | 444.3 | | | | | ✓ | | | |
| 482.6 mm | (19") | 462.5 | ✓ | | | | | | | |
| 500.0 mm | | 532.5 | | | | | ✓ | | | |
| 508.0 mm | (20") | 541.0 | | | | | ✓ | | | ✓ |
| 533.4 mm | (21") | 568.1 | ✓ | | | | | | | |
| 600.0 mm | | 766.8 | | | | | ✓ | | | ✓ |
| 660.4 mm | (26") | 844.0 | | | | | ✓ | | | ✓ |

1 - Weight per bar based on 6082 alloy. Please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

2 - alloys are available in various tempers including O condition and T6 as well as others - please enquire for the temper required

*includes RSAC group stock availability/imperial sized equivalents. Round bar up to 40" diameter in 6061 is available for special order, please ask for more information.

All bars can be cut to size on metalweb's state-of-the-art bar cutting equipment.

ALUMINIUM SQUARE BAR

Please note standard bar lengths are usually available in 3 metre, 4 metre and 5 metre lengths but other lengths are available plus we have the ability to cut bars to size for any required finished length
 "Hard" Alloys (Heat treat) ²

| Metric | Size Imperial | Weight(Kg) per m 3m bar ¹ | 2007/ | | 6061 | 6082 | 7075 |
|----------|------------------|--|-------|------|------|------|------|
| | | | 2014 | 2017 | | | |
| 6.35 mm | (1/4") | 0.11 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7.94 mm | (5/16") | 0.17 | ✓ | | ✓ | | |
| 8.0 mm | | 0.17 | | ✓ | | | |
| 9.53 mm | (3/8") | 0.25 | ✓ | | ✓ | | |
| 10.0 mm | | 0.27 | | ✓ | | | ✓ |
| 12.0 mm | | 0.39 | | ✓ | | | |
| 12.7 mm | (1/2") | 0.44 | ✓ | | ✓ | | ✓ |
| 15.0 mm | | 0.61 | | ✓ | | | |
| 15.88 mm | (5/8") | 0.68 | ✓ | | ✓ | | ✓ |
| 18.0 mm | | 0.88 | | ✓ | | | |
| 19.05 mm | (3/4") | 0.98 | ✓ | | ✓ | | ✓ |
| 20.0 mm | | 1.08 | | ✓ | | | |
| 22.0 mm | | 1.31 | | ✓ | | | |
| 22.23 mm | (7/8") | 1.34 | ✓ | | ✓ | | ✓ |
| 25.0 mm | | 1.69 | | ✓ | | | |
| 25.4 mm | (1") | 1.75 | ✓ | | ✓ | | ✓ |
| 28.58 mm | (1 1/8") | 2.21 | ✓ | | ✓ | | ✓ |
| 30.0 mm | | 2.44 | | ✓ | | | |
| 31.75 mm | (1 1/4") | 2.73 | ✓ | | ✓ | | ✓ |
| 34.93 mm | (1 3/8") | 3.31 | ✓ | | ✓ | | ✓ |
| 35.0 mm | | 3.32 | | ✓ | | | |
| 38.1 mm | (1 1/2") | 3.93 | ✓ | | ✓ | | ✓ |
| 40.0 mm | | 4.34 | | ✓ | | | ✓ |
| 41.28 mm | (1 5/8") | 4.62 | ✓ | | ✓ | | ✓ |
| 44.45 mm | (1 3/4") | 5.35 | ✓ | | ✓ | | ✓ |
| 45.0 mm | | 5.49 | | ✓ | | | |
| 47.63 mm | (1 7/8") | 6.15 | ✓ | | ✓ | | ✓ |
| 50.0 mm | | 6.78 | | ✓ | | | |
| 50.8 mm | (2") | 6.99 | ✓ | | ✓ | | ✓ |

ALUMINIUM SQUARE BAR *continued*

Please note standard bar lengths are usually available in 3 metre, 4 metre and 5 metre lengths but other lengths are available plus we have the ability to cut bars to size for any required finished length

| Metric | Size | Imperial | Weight(Kg) | | "Hard" Alloys (Heat treat) ² | | | | | | | |
|-----------|------|----------|------------|---------------------|---|------|------|------|------|--|--|---|
| | | | per m | 3m bar ¹ | 2014 | 2017 | 6061 | 6082 | 7075 | | | |
| 55.0 mm | | | 8.20 | 24.6 | | ✓ | | | | | | |
| 57.15 mm | | (2 1/4") | 8.85 | 26.6 | | ✓ | | ✓ | | | | |
| 60.0 mm | | | 9.76 | 29.3 | | ✓ | | | | | | |
| 63.5 mm | | (2 1/2") | 10.9 | 32.8 | | ✓ | | ✓ | | | | ✓ |
| 65.0 mm | | | 11.4 | 34.3 | | ✓ | | | | | | |
| 69.85 mm | | (2 3/4") | 13.2 | 39.7 | | ✓ | | ✓ | | | | ✓ |
| 70.0 mm | | | 13.3 | 39.8 | | ✓ | | | | | | |
| 75.0 mm | | | 15.2 | 45.7 | | ✓ | | | | | | |
| 76.2 mm | | (3") | 15.7 | 47.2 | | ✓ | | ✓ | | | | ✓ |
| 80.0 mm | | | 17.3 | 52.0 | | ✓ | | | | | | |
| 82.55 mm | | (3 1/4") | 18.5 | 55.4 | | ✓ | | ✓ | | | | ✓ |
| 85.0 mm | | | 19.6 | 58.7 | | ✓ | | | | | | |
| 88.9 mm | | (3 1/2") | 21.4 | 64.3 | | ✓ | | ✓ | | | | ✓ |
| 90.0 mm | | | 22.0 | 65.9 | | ✓ | | | | | | ✓ |
| 95.25 mm | | (3 3/4") | 24.6 | 73.8 | | ✓ | | | | | | |
| 100.0 mm | | | 27.1 | 81.3 | | ✓ | | | | | | |
| 101.6 mm | | (4") | 28.0 | 83.9 | | ✓ | | ✓ | | | | ✓ |
| 107.95 mm | | (4 1/4") | 31.6 | 94.7 | | ✓ | | | | | | |
| 110.0 mm | | | 32.8 | 98.4 | | ✓ | | | | | | |
| 114.3 mm | | (4 1/2") | 35.4 | 106.2 | | ✓ | | ✓ | | | | ✓ |
| 120.0 mm | | | 39.0 | 117.1 | | ✓ | | | | | | |
| 120.7 mm | | (4 3/4") | 39.4 | 118.3 | | ✓ | | | | | | ✓ |
| 127.0 mm | | (5") | 43.7 | 131.1 | | ✓ | | ✓ | | | | ✓ |
| 130.0 mm | | | 45.8 | 137.4 | | ✓ | | | | | | |
| 139.7 mm | | (5 1/2") | 52.9 | 158.7 | | ✓ | | ✓ | | | | ✓ |
| 150.0 mm | | | 61.0 | 182.9 | | ✓ | | | | | | |
| 152.4 mm | | (6") | 62.9 | 188.8 | | ✓ | | ✓ | | | | ✓ |
| 160.0 mm | | | 69.4 | 208.1 | | ✓ | | | | | | |
| 165.1 mm | | (6 1/2") | 73.9 | 221.6 | | ✓ | | | | | | ✓ |

ALUMINIUM SQUARE BAR *continued*

Please note standard bar lengths are usually available in 3 metre, 4 metre and 5 metre lengths but other lengths are available plus we have the ability to cut bars to size for any required finished length

"Hard" Alloys (Heat treat) ²

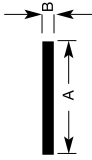
| Metric | Size Imperial | Weight(Kg) per m 3m bar ¹ | 2007/ 2014 2017 6061 6082 7075 | | | | | |
|-----------|------------------|--|-----------------------------------|------|------|------|------|--|
| | | | 2014 | 2017 | 6061 | 6082 | 7075 | |
| 175.0 mm | | 83.0 | | | | | | |
| 177.8 mm | (7") | 85.7 | | | ✓ | | ✓ | |
| 180.0 mm | | 87.8 | | ✓ | | | ✓ | |
| 190.5 mm | (7 ½") | 98.3 | | | ✓ | | ✓ | |
| 200.0 mm | | 108.4 | | ✓ | | | | |
| 203.2 mm | (8") | 111.9 | | | ✓ | | ✓ | |
| 210.0 mm | | 119.5 | | | ✓ | | ✓ | |
| 228.6 mm | (9") | 141.6 | | | ✓ | | ✓ | |
| 230.0 mm | | 143.4 | | | ✓ | | ✓ | |
| 241.3 mm | (9 ½") | 157.8 | | | ✓ | | ✓ | |
| 247.65 mm | (9 ¾") | 166.2 | | | ✓ | | ✓ | |
| 250.0 mm | | 169.4 | | | ✓ | | ✓ | |
| 254.0 mm | (10") | 174.8 | | | ✓ | | ✓ | |
| 260.0 mm | | 183.2 | | | ✓ | | ✓ | |
| 266.7 mm | (10 ½") | 192.8 | | | ✓ | | ✓ | |
| 270.0 mm | | 197.6 | | | ✓ | | ✓ | |
| 279.4 mm | (11") | 211.6 | | | ✓ | | ✓ | |
| 290.0 mm | | 227.9 | | | ✓ | | ✓ | |
| 292.1 mm | (11 ½") | 231.2 | | | ✓ | | ✓ | |
| 300.0 mm | | 243.9 | | | ✓ | | ✓ | |
| 304.8 mm | (12") | 251.8 | | | ✓ | | ✓ | |
| 310.0 mm | | 260.4 | | | ✓ | | ✓ | |
| 330.2 mm | (13") | 295.5 | | | ✓ | | ✓ | |
| 350.0 mm | | 332.0 | | | ✓ | | ✓ | |
| 355.6 mm | (14") | 342.7 | | | ✓ | | ✓ | |
| 381.0 mm | (15") | 393.4 | | | ✓ | | ✓ | |
| 406.4 mm | (16") | 447.6 | | | ✓ | | ✓ | |

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details.

2 - alloys are available in various tempers including O condition and T6 as well as others - please enquire for the temper required.

All bars can be cut to size on metalweb's state-of-the-art bar cutting equipment.
Other sizes can be cut from plate.

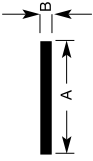
ALUMINIUM FLAT BAR



"Hard" Alloys (Heat treat) ²

| Metric | | | Imperial | | Weight Kg/m 3m bar (Kg) ¹ | "Hard" Alloys (Heat treat) ² | | | | | | | |
|--------|----|---|----------|----|--|---|---------------|-------|------|------|---|---|---|
| A | x | B | A | x | | B | 2011/ 2030 | 2014 | 6061 | 6082 | | | |
| 7.94 | mm | x | 6.35 | mm | (5/16") | x | (1/4") | 0.136 | 0.4 | | | | |
| 9.53 | mm | x | 3.18 | mm | (3/8") | x | (1/8") | 0.082 | 0.2 | | | | ✓ |
| 9.53 | mm | x | 6.35 | mm | (3/8") | x | (1/4") | 0.165 | 0.5 | | | ✓ | ✓ |
| 12.0 | mm | x | 10.0 | mm | | | | 0.325 | 1.0 | ✓ | | | |
| 12.7 | mm | x | 1.6 | mm | (1/2") | x | (1/16") | 0.055 | 0.2 | | | | |
| 12.7 | mm | x | 3.18 | mm | (1/2") | x | (1/8") | 0.110 | 0.3 | | | ✓ | ✓ |
| 12.7 | mm | x | 4.76 | mm | (1/2") | x | (3/16") | 0.165 | 0.5 | | | ✓ | ✓ |
| 12.7 | mm | x | 6.35 | mm | (1/2") | x | (1/4") | 0.220 | 0.7 | | ✓ | ✓ | ✓ |
| 12.7 | mm | x | 7.95 | mm | (1/2") | x | (5/16") | 0.274 | 0.8 | | | | |
| 12.7 | mm | x | 9.53 | mm | (1/2") | x | (3/8") | 0.329 | 1.0 | | | ✓ | ✓ |
| 15.9 | mm | x | 3.18 | mm | (5/8") | x | (1/8") | 0.137 | 0.4 | | | | ✓ |
| 15.9 | mm | x | 4.76 | mm | (5/8") | x | (3/16") | 0.205 | 0.6 | | | ✓ | ✓ |
| 15.9 | mm | x | 6.35 | mm | (5/8") | x | (1/4") | 0.274 | 0.8 | | | ✓ | ✓ |
| 15.9 | mm | x | 7.94 | mm | (5/8") | x | (5/16") | 0.342 | 1.0 | | | | |
| 15.9 | mm | x | 9.53 | mm | (5/8") | x | (3/8") | 0.411 | 1.2 | | | ✓ | ✓ |
| 15.9 | mm | x | 12.7 | mm | (5/8") | x | (1/2") | 0.549 | 1.6 | | | ✓ | ✓ |
| 19.05 | mm | x | 1.6 | mm | (3/4") | x | (1/16") | 0.082 | 0.2 | | | | |
| 19.05 | mm | x | 3.18 | mm | (3/4") | x | (1/8") | 0.164 | 0.5 | | | ✓ | ✓ |
| 19.05 | mm | x | 4.76 | mm | (3/4") | x | (3/16") | 0.247 | 0.7 | | | ✓ | ✓ |
| 19.05 | mm | x | 6.35 | mm | (3/4") | x | (1/4") | 0.329 | 1.0 | | ✓ | ✓ | ✓ |
| 19.05 | mm | x | 7.95 | mm | (3/4") | x | (5/16") | 0.411 | 1.2 | | | ✓ | ✓ |
| 19.05 | mm | x | 9.53 | mm | (3/4") | x | (3/8") | 0.494 | 1.5 | | | ✓ | ✓ |
| 19.05 | mm | x | 12.7 | mm | (3/4") | x | (1/2") | 0.658 | 2.0 | | ✓ | ✓ | ✓ |
| 19.05 | mm | x | 15.88 | mm | (3/4") | x | (5/8") | 0.823 | 2.5 | | | ✓ | ✓ |
| 20.0 | mm | x | 10.0 | mm | | | | 0.542 | 1.6 | ✓ | | | |
| 22.23 | mm | x | 3.18 | mm | (7/8") | x | (1/8") | 0.192 | 0.6 | | | ✓ | ✓ |
| 22.23 | mm | x | 4.76 | mm | (7/8") | x | (3/16") | 0.289 | 0.9 | | | | |
| 22.23 | mm | x | 6.35 | mm | (7/8") | x | (1/4") | 0.384 | 1.2 | | | ✓ | |
| 22.23 | mm | x | 7.95 | mm | (7/8") | x | (5/16") | 0.481 | 1.4 | | | | |
| 22.23 | mm | x | 9.53 | mm | (7/8") | x | (3/8") | 0.576 | 1.7 | | | | ✓ |
| 22.23 | mm | x | 12.7 | mm | (7/8") | x | (1/2") | 0.768 | 2.3 | | | | |
| 22.23 | mm | x | 15.88 | mm | (7/8") | x | (5/8") | 0.960 | 2.9 | | | | |
| 22.23 | mm | x | 19.05 | mm | (7/8") | x | (3/4") | 1.150 | 3.5 | | | | |

ALUMINIUM FLAT BAR continued



"Hard" Alloys (Heat treat)²

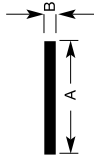
| Metric A | x | | B | | Imperial A x B | | | Weight Kg/m | 3m bar (Kg) ¹ | 2011/ 2030 | | | | |
|-------------|----|----|-------|----|-------------------|---|---------|----------------|--------------------------|---------------|------|------|---|---|
| | mm | mm | mm | mm | (") | x | (") | | | 2014 | 6061 | 6082 | | |
| 25.4 | mm | x | 1.6 | mm | (1") | x | (1/16") | 0.109 | 0.3 | | | | | ✓ |
| 25.4 | mm | x | 3.18 | mm | (1") | x | (1/8") | 0.220 | 0.7 | | | ✓ | | ✓ |
| 25.4 | mm | x | 4.76 | mm | (1") | x | (3/16") | 0.329 | 1.0 | | | ✓ | | ✓ |
| 25.4 | mm | x | 6.35 | mm | (1") | x | (1/4") | 0.439 | 1.3 | | | ✓ | | ✓ |
| 25.4 | mm | x | 7.95 | mm | (1") | x | (5/16") | 0.549 | 1.6 | | | ✓ | | ✓ |
| 25.4 | mm | x | 9.53 | mm | (1") | x | (3/8") | 0.658 | 2.0 | | | ✓ | | ✓ |
| 25.4 | mm | x | 12.7 | mm | (1") | x | (1/2") | 0.878 | 2.6 | | | ✓ | | ✓ |
| 25.4 | mm | x | 15.88 | mm | (1") | x | (5/8") | 1.10 | 3.3 | | | ✓ | | ✓ |
| 25.4 | mm | x | 19.05 | mm | (1") | x | (3/4") | 1.32 | 4.0 | | | ✓ | | ✓ |
| 25.4 | mm | x | 22.23 | mm | (1") | x | (7/8") | 1.53 | 4.6 | | | ✓ | | ✓ |
| 30.0 | mm | x | 6.0 | mm | | | | 0.488 | 1.5 | | | | | |
| 30.0 | mm | x | 10.0 | mm | | | | 0.813 | 2.4 | ✓ | | | | |
| 30.0 | mm | x | 15.0 | mm | | | | 1.23 | 3.7 | ✓ | | | | |
| 28.58 | mm | x | 3.18 | mm | (1 1/8") | x | (1/8") | 0.247 | 0.7 | | | | | |
| 28.58 | mm | x | 4.76 | mm | (1 1/8") | x | (3/16") | 0.371 | 1.1 | | | | | |
| 28.58 | mm | x | 6.35 | mm | (1 1/8") | x | (1/4") | 0.492 | 1.5 | | | | ✓ | |
| 28.58 | mm | x | 7.95 | mm | (1 1/8") | x | (5/16") | 0.617 | 1.9 | | | | | |
| 28.58 | mm | x | 9.53 | mm | (1 1/8") | x | (3/8") | 0.738 | 2.2 | | | | | |
| 28.58 | mm | x | 12.7 | mm | (1 1/8") | x | (1/2") | 0.988 | 3.0 | | | | | ✓ |
| 28.58 | mm | x | 15.88 | mm | (1 1/8") | x | (5/8") | 1.23 | 3.7 | | | | | |
| 28.58 | mm | x | 19.05 | mm | (1 1/8") | x | (3/4") | 1.48 | 4.4 | | | | | ✓ |
| 28.58 | mm | x | 22.23 | mm | (1 1/8") | x | (7/8") | 1.73 | 5.2 | | | | | |
| 28.58 | mm | x | 25.4 | mm | (1 1/8") | x | (1") | 1.98 | 5.9 | | | | | ✓ |
| 31.75 | mm | x | 3.18 | mm | (1 1/4") | x | (1/8") | 0.274 | 0.8 | | | | | ✓ |
| 31.75 | mm | x | 4.76 | mm | (1 1/4") | x | (3/16") | 0.411 | 1.2 | | | | | ✓ |
| 31.75 | mm | x | 6.35 | mm | (1 1/4") | x | (1/4") | 0.549 | 1.6 | | | ✓ | | ✓ |
| 31.75 | mm | x | 7.95 | mm | (1 1/4") | x | (5/16") | 0.686 | 2.1 | | | ✓ | | ✓ |
| 31.75 | mm | x | 9.53 | mm | (1 1/4") | x | (3/8") | 0.823 | 2.5 | | | ✓ | | ✓ |
| 31.75 | mm | x | 12.7 | mm | (1 1/4") | x | (1/2") | 1.10 | 3.3 | | | ✓ | | ✓ |
| 31.75 | mm | x | 15.88 | mm | (1 1/4") | x | (5/8") | 1.37 | 4.1 | | | ✓ | | ✓ |
| 31.75 | mm | x | 19.05 | mm | (1 1/4") | x | (3/4") | 1.65 | 5.0 | | | ✓ | | ✓ |
| 31.75 | mm | x | 22.23 | mm | (1 1/4") | x | (7/8") | 1.92 | 5.8 | | | ✓ | | ✓ |
| 31.75 | mm | x | 25.4 | mm | (1 1/4") | x | (1") | 2.20 | 6.6 | | | ✓ | | ✓ |

ALUMINIUM FLAT BAR continued

"Hard" Alloys (Heat treat)²

| Metric | | Imperial | | Weight Kg/m 3m bar (Kg) ¹ | 2011/ ² | | | |
|----------|------------|----------|------------|--|--------------------|------|------|------|
| A | x B | A | x B | | 2030 | 2014 | 6061 | 6082 |
| 31.75 mm | x 28.58 mm | (1 1/4") | x (1 1/8") | 2.46 | | | | |
| 34.93 mm | x 3.18 mm | (1 3/8") | x (1/8") | 0.302 | | | | |
| 34.93 mm | x 4.76 mm | (1 3/8") | x (3/16") | 0.452 | | | | |
| 34.93 mm | x 6.35 mm | (1 3/8") | x (1/4") | 0.604 | | ✓ | ✓ | |
| 34.93 mm | x 7.95 mm | (1 3/8") | x (5/16") | 0.755 | | | | |
| 34.93 mm | x 9.53 mm | (1 3/8") | x (3/8") | 0.905 | | | | |
| 34.93 mm | x 12.7 mm | (1 3/8") | x (1/2") | 1.21 | | ✓ | ✓ | |
| 34.93 mm | x 15.88 mm | (1 3/8") | x (5/8") | 1.50 | | | | |
| 34.93 mm | x 19.05 mm | (1 3/8") | x (3/4") | 1.81 | | ✓ | ✓ | |
| 34.93 mm | x 22.23 mm | (1 3/8") | x (7/8") | 2.11 | | | | |
| 34.93 mm | x 25.4 mm | (1 3/8") | x (1") | 2.41 | | ✓ | ✓ | |
| 34.93 mm | x 28.58 mm | (1 3/8") | x (1 1/8") | 2.70 | | | | |
| 34.93 mm | x 31.75 mm | (1 3/8") | x (1 1/4") | 3.02 | | | | |
| 38.1 mm | x 1.6 mm | (1 1/2") | x (1/16") | 0.164 | | | | |
| 38.1 mm | x 3.18 mm | (1 1/2") | x (1/8") | 0.329 | | ✓ | ✓ | |
| 38.1 mm | x 4.76 mm | (1 1/2") | x (3/16") | 0.494 | | ✓ | ✓ | |
| 38.1 mm | x 6.35 mm | (1 1/2") | x (1/4") | 0.658 | | ✓ | ✓ | |
| 38.1 mm | x 7.95 mm | (1 1/2") | x (5/16") | 0.823 | | | | |
| 38.1 mm | x 9.53 mm | (1 1/2") | x (3/8") | 0.988 | | ✓ | ✓ | |
| 38.1 mm | x 12.7 mm | (1 1/2") | x (1/2") | 1.32 | | ✓ | ✓ | |
| 38.1 mm | x 15.88 mm | (1 1/2") | x (5/8") | 1.65 | | ✓ | ✓ | |
| 38.1 mm | x 19.05 mm | (1 1/2") | x (3/4") | 1.98 | | ✓ | ✓ | |
| 38.1 mm | x 22.23 mm | (1 1/2") | x (7/8") | 2.31 | | | | |
| 38.1 mm | x 25.4 mm | (1 1/2") | x (1") | 2.63 | | ✓ | ✓ | |
| 38.1 mm | x 28.58 mm | (1 1/2") | x (1 1/8") | 2.95 | | | | |
| 38.1 mm | x 31.75 mm | (1 1/2") | x (1 1/4") | 3.29 | | ✓ | ✓ | |
| 38.1 mm | x 34.93 mm | (1 1/2") | x (1 3/8") | 3.61 | | | | |
| 40.0 mm | x 4.0 mm | | | 0.434 | | | ✓ | |
| 40.0 mm | x 6.0 mm | | | 0.650 | | | ✓ | |
| 40.0 mm | x 22.0 mm | | | 2.38 | | | ✓ | |
| 40.0 mm | x 25.0 mm | | | 2.71 | | | ✓ | |
| 44.45 mm | x 3.18 mm | (1 3/4") | x (1/8") | 0.384 | | | ✓ | |
| 44.45 mm | x 4.76 mm | (1 3/4") | x (3/16") | 0.768 | | | ✓ | |

ALUMINIUM FLAT BAR continued



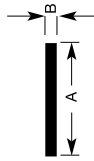
"Hard" Alloys (Heat treat) 2

| Metric A | x B | | Imperial A x B | | Weight Kg/m 3m bar (Kg) ¹ | 2011/ 2030 | | | |
|-------------|-----|---------|-------------------|-----------------|--|---------------|------|------|------|
| | mm | mm | (1/4") | (1/4") | | 2014 | 6061 | 6082 | 6082 |
| 44.45 | mm | x 6.35 | mm | x (1/4") | 0.960 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 9.53 | mm | x (3/8") | 1.16 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 12.7 | mm | x (1/2") | 1.53 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 15.88 | mm | x (5/8") | 1.92 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 19.05 | mm | x (3/4") | 2.31 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 22.23 | mm | x (7/8") | 2.69 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 25.4 | mm | x (1") | 3.06 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 28.58 | mm | x (1 1/8") | 3.44 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 31.75 | mm | x (1 1/4") | 3.84 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 34.93 | mm | x (1 3/8") | 4.21 | ✓ | ✓ | ✓ | ✓ |
| 44.45 | mm | x 38.1 | mm | x (1 1/2") | 4.61 | ✓ | ✓ | ✓ | ✓ |
| 50.0 | mm | x 2.0 | mm | | 0.27 | ✓ | ✓ | ✓ | ✓ |
| 50.0 | mm | x 5.0 | mm | | 0.678 | ✓ | ✓ | ✓ | ✓ |
| 50.0 | mm | x 6.0 | mm | | 0.834 | ✓ | ✓ | ✓ | ✓ |
| 50.0 | mm | x 10.0 | mm | | 1.36 | ✓ | ✓ | ✓ | ✓ |
| 50.0 | mm | x 20.0 | mm | | 2.71 | ✓ | ✓ | ✓ | ✓ |
| 50.0 | mm | x 32.0 | mm | | 4.34 | ✓ | ✓ | ✓ | ✓ |
| 50.0 | mm | x 35.0 | mm | | 4.74 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 3.18 | mm | (2") x (1/8") | 0.439 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 4.76 | mm | (2") x (3/16") | 0.658 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 6.35 | mm | (2") x (1/4") | 0.878 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 7.95 | mm | (2") x (5/16") | 1.10 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 9.53 | mm | (2") x (3/8") | 1.32 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 12.7 | mm | (2") x (1/2") | 1.76 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 15.88 | mm | (2") x (5/8") | 2.20 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 19.05 | mm | (2") x (3/4") | 2.63 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 22.23 | mm | (2") x (7/8") | 3.06 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 25.0 | mm | (2") x (1") | 3.44 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 25.4 | mm | (2") x (1") | 3.51 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 28.58 | mm | (2") x (1 1/8") | 3.93 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 31.75 | mm | (2") x (1 1/4") | 4.39 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 34.93 | mm | (2") x (1 3/8") | 4.81 | ✓ | ✓ | ✓ | ✓ |
| 50.8 | mm | x 38.1 | mm | (2") x (1 1/2") | 5.27 | ✓ | ✓ | ✓ | ✓ |

ALUMINIUM FLAT BAR continued

| Metric | | | Imperial | | | Weight Kg/m 3m bar (Kg)1 | "Hard" Alloys (Heat treat) 2 | | | | |
|--------|----|---|----------|----|----------|--------------------------------|------------------------------|-------|------|------|--|
| A | x | B | A | x | B | | 2011/ 2030 | 2014 | 6061 | 6082 | |
| 50.8 | mm | x | 44.45 | mm | (2") | x | (1 3/4") | ✓ | | | |
| 57.15 | mm | x | 3.18 | mm | (2 1/4") | x | (1/8") | 0.494 | 18.4 | ✓ | |
| 57.15 | mm | x | 4.76 | mm | (2 1/4") | x | (3/16") | 0.741 | 2.2 | ✓ | |
| 57.15 | mm | x | 6.35 | mm | (2 1/4") | x | (1/4") | 0.988 | 3.0 | ✓ | |
| 57.15 | mm | x | 7.95 | mm | (2 1/4") | x | (5/16") | 1.23 | 3.7 | ✓ | |
| 57.15 | mm | x | 9.53 | mm | (2 1/4") | x | (3/8") | 1.48 | 4.4 | ✓ | |
| 57.15 | mm | x | 12.7 | mm | (2 1/4") | x | (1/2") | 1.98 | 5.9 | ✓ | |
| 57.15 | mm | x | 15.88 | mm | (2 1/4") | x | (5/8") | 2.47 | 7.4 | ✓ | |
| 57.15 | mm | x | 19.05 | mm | (2 1/4") | x | (3/4") | 2.96 | 8.9 | ✓ | |
| 57.15 | mm | x | 22.23 | mm | (2 1/4") | x | (7/8") | 3.45 | 10.4 | ✓ | |
| 57.15 | mm | x | 25.4 | mm | (2 1/4") | x | (1") | 3.96 | 11.9 | ✓ | |
| 57.15 | mm | x | 28.58 | mm | (2 1/4") | x | (1 1/8") | 4.42 | 13.3 | ✓ | |
| 57.15 | mm | x | 31.75 | mm | (2 1/4") | x | (1 1/4") | 4.94 | 14.8 | ✓ | |
| 57.15 | mm | x | 34.93 | mm | (2 1/4") | x | (1 3/8") | 5.41 | 16.2 | ✓ | |
| 57.15 | mm | x | 38.1 | mm | (2 1/4") | x | (1 1/2") | 5.92 | 17.8 | ✓ | |
| 57.15 | mm | x | 44.45 | mm | (2 1/4") | x | (1 3/4") | 6.92 | 20.8 | ✓ | |
| 57.15 | mm | x | 50.8 | mm | (2 1/4") | x | (2") | 7.90 | 23.7 | ✓ | |
| 60.0 | mm | x | 6.0 | mm | | | | 0.976 | 2.9 | ✓ | |
| 60.0 | mm | x | 25.0 | mm | | | | 4.07 | 12.2 | ✓ | |
| 60.0 | mm | x | 30.0 | mm | | | | 4.88 | 14.6 | ✓ | |
| 60.0 | mm | x | 40.0 | mm | | | | 6.50 | 19.5 | ✓ | |
| 60.0 | mm | x | 45.0 | mm | | | | 7.32 | 22.0 | ✓ | |
| 63.5 | mm | x | 3.18 | mm | (2 1/2") | x | (1/8") | 0.549 | 1.6 | ✓ | |
| 63.5 | mm | x | 4.76 | mm | (2 1/2") | x | (3/16") | 0.823 | 2.5 | ✓ | |
| 63.5 | mm | x | 6.35 | mm | (2 1/2") | x | (1/4") | 1.10 | 3.3 | ✓ | |
| 63.5 | mm | x | 7.95 | mm | (2 1/2") | x | (5/16") | 1.37 | 4.1 | ✓ | |
| 63.5 | mm | x | 9.53 | mm | (2 1/2") | x | (3/8") | 1.65 | 5.0 | ✓ | |
| 63.5 | mm | x | 12.7 | mm | (2 1/2") | x | (1/2") | 2.20 | 6.6 | ✓ | |
| 63.5 | mm | x | 15.88 | mm | (2 1/2") | x | (5/8") | 2.74 | 8.2 | ✓ | |
| 63.5 | mm | x | 19.05 | mm | (2 1/2") | x | (3/4") | 3.29 | 9.9 | ✓ | |
| 63.5 | mm | x | 22.23 | mm | (2 1/2") | x | (7/8") | 3.84 | 11.5 | ✓ | |
| 63.5 | mm | x | 25.4 | mm | (2 1/2") | x | (1") | 4.39 | 13.2 | ✓ | |
| 63.5 | mm | x | 28.58 | mm | (2 1/2") | x | (1 1/8") | 4.92 | 14.8 | ✓ | |

ALUMINIUM FLAT BAR continued

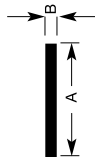


| Metric | | Imperial | | Weight | | "Hard" Alloys (Heat treat) 2 | | | | |
|---------|------------|----------|------------|--------|--------------------------|------------------------------|------|------|------|--|
| A | x B | A | x B | Kg/m | 3m bar (Kg) ¹ | 2011/2030 | 2014 | 6061 | 6082 | |
| 63.5 mm | x 31.75 mm | (2 1/2") | x (1 1/4") | 5.49 | 16.5 | | ✓ | ✓ | ✓ | |
| 63.5 mm | x 34.93 mm | (2 1/2") | x (1 3/8") | 6.01 | 18.0 | | | | | |
| 63.5 mm | x 38.1 mm | (2 1/2") | x (1 1/2") | 6.58 | 19.7 | | ✓ | ✓ | ✓ | |
| 63.5 mm | x 44.45 mm | (2 1/2") | x (1 3/4") | 7.68 | 23.0 | | | ✓ | ✓ | |
| 63.5 mm | x 50.8 mm | (2 1/2") | x (2") | 8.78 | 26.3 | | ✓ | ✓ | ✓ | |
| 63.5 mm | x 57.15 mm | (2 1/2") | x (2 1/4") | 9.83 | 29.5 | | | | | |
| 70.0 mm | x 30.0 mm | | | 5.69 | 17.1 | ✓ | | | | |
| 70.0 mm | x 35.0 mm | | | 6.64 | 19.9 | ✓ | | | | |
| 70.0 mm | x 40.0 mm | | | 7.59 | 22.8 | ✓ | | | | |
| 75.0 mm | x 10.0 mm | | | 2.03 | 6.1 | ✓ | | | | |
| 76.2 mm | x 3.18 mm | (3") | x (1/8") | 0.657 | 2.0 | | | ✓ | ✓ | |
| 76.2 mm | x 4.76 mm | (3") | x (3/16") | 0.981 | 2.9 | | | ✓ | ✓ | |
| 76.2 mm | x 6.35 mm | (3") | x (1/4") | 1.32 | 4.0 | | ✓ | ✓ | ✓ | |
| 76.2 mm | x 7.95 mm | (3") | x (5/16") | 1.64 | 4.9 | | | ✓ | ✓ | |
| 76.2 mm | x 9.53 mm | (3") | x (3/8") | 1.98 | 5.9 | | | ✓ | ✓ | |
| 76.2 mm | x 12.7 mm | (3") | x (1/2") | 2.63 | 7.9 | | ✓ | ✓ | ✓ | |
| 76.2 mm | x 15.88 mm | (3") | x (5/8") | 3.29 | 9.9 | | ✓ | ✓ | ✓ | |
| 76.2 mm | x 19.05 mm | (3") | x (3/4") | 3.96 | 11.9 | | | ✓ | ✓ | |
| 76.2 mm | x 22.23 mm | (3") | x (7/8") | 4.61 | 13.8 | | | | | |
| 76.2 mm | x 25.4 mm | (3") | x (1") | 5.27 | 15.8 | | ✓ | ✓ | ✓ | |
| 76.2 mm | x 28.58 mm | (3") | x (1 1/8") | 5.90 | 17.7 | | | | | |
| 76.2 mm | x 31.75 mm | (3") | x (1 1/4") | 6.58 | 19.7 | | ✓ | ✓ | ✓ | |
| 76.2 mm | x 34.93 mm | (3") | x (1 3/8") | 7.21 | 21.6 | | | | | |
| 76.2 mm | x 38.1 mm | (3") | x (1 1/2") | 7.90 | 23.7 | | | ✓ | ✓ | |
| 76.2 mm | x 44.45 mm | (3") | x (1 3/4") | 9.21 | 27.6 | | | ✓ | ✓ | |
| 76.2 mm | x 50.8 mm | (3") | x (2") | 10.5 | 31.5 | | ✓ | ✓ | ✓ | |
| 76.2 mm | x 57.15 mm | (3") | x (2 1/4") | 11.8 | 35.4 | | | ✓ | ✓ | |
| 76.2 mm | x 63.5 mm | (3") | x (2 1/2") | 13.1 | 39.3 | | ✓ | ✓ | ✓ | |
| 80.0 mm | x 6.0 mm | | | 1.30 | 3.9 | | | | | |
| 80.0 mm | x 8.0 mm | | | 1.73 | 5.2 | | | | ✓ | |
| 80.0 mm | x 10.0 mm | | | 2.17 | 6.5 | | ✓ | | | |
| 80.0 mm | x 12.0 mm | | | 2.60 | 7.8 | | ✓ | | | |
| 80.0 mm | x 25.0 mm | | | 5.42 | 16.3 | | | | ✓ | |

ALUMINIUM FLAT BAR continued

| Metric | | | Imperial | | | Weight Kg/m 3m bar (Kg) ¹ | "Hard" Alloys (Heat treat) ² | | | | |
|--------|----|---------|----------|----------|------------|--|---|------|------|------|--|
| A | x | B | A | x | B | | 2011/ 2030 | 2014 | 6061 | 6082 | |
| 80.0 | mm | x 26.5 | mm | | | 5.75 | | | | | |
| 80.0 | mm | x 50.0 | mm | | | 10.8 | ✓ | ✓ | | | |
| 80.0 | mm | x 71.0 | mm | | | 15.4 | | | | | |
| 82.55 | mm | x 15.88 | mm | (3 1/4") | x (5/8") | 3.55 | | | ✓ | | |
| 82.55 | mm | x 25.4 | mm | (3 1/4") | x (1") | 5.68 | | | ✓ | | |
| 82.55 | mm | x 31.75 | mm | (3 1/4") | x (1 1/4") | 7.10 | | | | | |
| 82.55 | mm | x 34.93 | mm | (3 1/4") | x (1 3/8") | 7.81 | | | | | |
| 88.9 | mm | x 3.18 | mm | (3 1/2") | x (1/8") | 0.77 | | | ✓ | | |
| 88.9 | mm | x 4.76 | mm | (3 1/2") | x (3/16") | 1.15 | | | | | |
| 88.9 | mm | x 6.35 | mm | (3 1/2") | x (1/4") | 1.53 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 7.95 | mm | (3 1/2") | x (5/16") | 1.91 | | | | | |
| 88.9 | mm | x 9.53 | mm | (3 1/2") | x (3/8") | 2.29 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 12.7 | mm | (3 1/2") | x (1/2") | 3.06 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 15.88 | mm | (3 1/2") | x (5/8") | 3.83 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 19.05 | mm | (3 1/2") | x (3/4") | 4.59 | | | ✓ | ✓ | |
| 88.9 | mm | x 22.23 | mm | (3 1/2") | x (7/8") | 5.35 | | | | | |
| 88.9 | mm | x 25.4 | mm | (3 1/2") | x (1") | 6.12 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 28.58 | mm | (3 1/2") | x (1 1/8") | 6.88 | | | | | |
| 88.9 | mm | x 31.75 | mm | (3 1/2") | x (1 1/4") | 7.68 | | | | | |
| 88.9 | mm | x 34.93 | mm | (3 1/2") | x (1 3/8") | 8.41 | | | | | |
| 88.9 | mm | x 38.1 | mm | (3 1/2") | x (1 1/2") | 9.23 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 44.45 | mm | (3 1/2") | x (1 3/4") | 10.8 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 50.8 | mm | (3 1/2") | x (2") | 12.3 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 57.15 | mm | (3 1/2") | x (2 1/4") | 13.8 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 63.5 | mm | (3 1/2") | x (2 1/2") | 15.3 | | ✓ | ✓ | ✓ | |
| 88.9 | mm | x 76.2 | mm | (3 1/2") | x (3") | 18.4 | | ✓ | ✓ | ✓ | |
| 90.0 | mm | x 25.0 | mm | | | 6.10 | | | ✓ | | |
| 90.0 | mm | x 35.0 | mm | | | 8.54 | | | | | |
| 90.0 | mm | x 60.0 | mm | | | 14.6 | | ✓ | | | |
| 90.0 | mm | x 65.0 | mm | | | 15.9 | | | | | |
| 95.0 | mm | x 25.4 | mm | | x (1") | 6.54 | | | ✓ | | |
| 95.0 | mm | x 34.93 | mm | | x (1 3/8") | 8.99 | | | ✓ | | |
| 95.25 | mm | x 15.88 | mm | (3 3/4") | x (5/8") | 4.10 | | | | ✓ | |

ALUMINIUM FLAT BAR continued

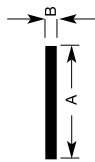


| Metric A | x B | | Imperial A x B | | Kg/m | Weight 3m bar (Kg) ¹ | "Hard" Alloys (Heat treat) ² | | | |
|-------------|-----|---------|-------------------|------------|-------|------------------------------------|---|------|------|------|
| | mm | mm | A | B | | | 2011/ 2030 | 2014 | 6061 | 6082 |
| 96.0 | mm | x 38.10 | mm | x (1 1/2") | 9.91 | 29.7 | | ✓ | | |
| 99.0 | mm | x 31.75 | mm | x (1 1/4") | 8.52 | 25.6 | | ✓ | | |
| 100.0 | mm | x 5.0 | mm | | 1.36 | 4.1 | | | | |
| 100.0 | mm | x 25.0 | mm | | 6.78 | 20.3 | ✓ | | | |
| 101.6 | mm | x 3.18 | mm | (4") | 0.880 | 2.6 | | ✓ | ✓ | |
| 101.6 | mm | x 4.76 | mm | (4") | 1.31 | 3.9 | | ✓ | ✓ | |
| 101.6 | mm | x 6.35 | mm | (4") | 1.76 | 5.3 | | ✓ | ✓ | |
| 101.6 | mm | x 7.95 | mm | (4") | 2.18 | 6.5 | | ✓ | ✓ | |
| 101.6 | mm | x 9.53 | mm | (4") | 2.63 | 7.9 | | ✓ | ✓ | |
| 101.6 | mm | x 12.7 | mm | (4") | 3.52 | 10.6 | | ✓ | ✓ | |
| 101.6 | mm | x 15.88 | mm | (4") | 4.39 | 13.2 | | ✓ | ✓ | |
| 101.6 | mm | x 19.05 | mm | (4") | 5.27 | 15.8 | | ✓ | ✓ | |
| 101.6 | mm | x 22.23 | mm | (4") | 6.15 | 18.5 | | ✓ | ✓ | |
| 101.6 | mm | x 25.4 | mm | (4") | 7.02 | 21.1 | | ✓ | ✓ | |
| 101.6 | mm | x 28.58 | mm | (4") | 7.86 | 23.6 | | ✓ | ✓ | |
| 101.6 | mm | x 31.75 | mm | (4") | 8.74 | 26.2 | | ✓ | ✓ | |
| 101.6 | mm | x 34.93 | mm | (4") | 9.62 | 28.9 | | ✓ | ✓ | |
| 101.6 | mm | x 38.1 | mm | (4") | 10.5 | 31.5 | | ✓ | ✓ | |
| 101.6 | mm | x 44.45 | mm | (4") | 12.2 | 36.7 | | ✓ | ✓ | |
| 101.6 | mm | x 50.8 | mm | (4") | 14.0 | 42.0 | | ✓ | ✓ | |
| 101.6 | mm | x 57.15 | mm | (4") | 15.7 | 47.2 | | ✓ | ✓ | |
| 101.6 | mm | x 63.5 | mm | (4") | 17.5 | 52.4 | | ✓ | ✓ | |
| 101.6 | mm | x 76.2 | mm | (4") | 21.0 | 62.9 | | ✓ | ✓ | |
| 101.6 | mm | x 88.9 | mm | (4") | 24.5 | 73.4 | | ✓ | ✓ | |
| 107.95 | mm | x 19.05 | mm | (4 1/4") | 5.57 | 16.7 | | | | |
| 107.95 | mm | x 31.75 | mm | (4 1/4") | 9.29 | 27.9 | | | | |
| 110.0 | mm | x 19.0 | mm | | 5.66 | 17.0 | | | | |
| 110.0 | mm | x 88.0 | mm | | 26.2 | 78.7 | | | | |
| 112.0 | mm | x 38.1 | mm | x (1 1/2") | 11.6 | 34.7 | | | | |
| 112.0 | mm | x 45.0 | mm | | 13.7 | 41.0 | | | | |
| 113.0 | mm | x 38.1 | mm | x (1 1/2") | 11.7 | 35.0 | | | | |
| 114.0 | mm | x 20.0 | mm | | 6.18 | 18.5 | | ✓ | | |
| 114.3 | mm | x 19.05 | mm | (4 1/2") | 5.90 | 17.7 | | | ✓ | |

ALUMINIUM FLAT BAR continued

| Metric A | x B | | Imperial A x B | | Weight Kg/m 3m bar (Kg) ¹ | "Hard" Alloys (Heat treat) ² | | | | |
|-------------|-----|---------|-------------------|-----------------|--|---|------|------|------|--|
| | mm | mm | (4 1/2") | (5") | | 2011/ 2030 | 2014 | 6061 | 6082 | |
| 114.3 | mm | x 25.4 | mm | x (1") | 7.90 | 23.7 | ✓ | ✓ | ✓ | |
| 114.3 | mm | x 38.1 | mm | x (1 1/2") | 11.8 | 35.4 | ✓ | ✓ | ✓ | |
| 114.3 | mm | x 50.8 | mm | x (4 1/2") | 15.7 | 47.2 | ✓ | ✓ | ✓ | |
| 114.3 | mm | x 76.2 | mm | x (3") | 23.6 | 70.8 | ✓ | ✓ | ✓ | |
| 114.3 | mm | x 88.9 | mm | x (4 1/2") | 27.5 | 82.6 | ✓ | ✓ | ✓ | |
| 117.0 | mm | x 25.0 | mm | | 7.93 | 23.8 | | | | |
| 120.0 | mm | x 8.0 | mm | | 2.60 | 7.8 | ✓ | | ✓ | |
| 120.0 | mm | x 10.0 | mm | | 3.25 | 9.8 | ✓ | | ✓ | |
| 120.0 | mm | x 15.0 | mm | | 4.88 | 14.6 | | ✓ | ✓ | |
| 120.0 | mm | x 20.0 | mm | | 6.50 | 19.5 | ✓ | | ✓ | |
| 120.0 | mm | x 25.0 | mm | | 8.10 | 24.3 | ✓ | | ✓ | |
| 120.0 | mm | x 26.5 | mm | | 8.62 | 25.9 | ✓ | | ✓ | |
| 120.0 | mm | x 60.0 | mm | | 19.5 | 58.5 | ✓ | ✓ | ✓ | |
| 120.0 | mm | x 70.0 | mm | | 22.8 | 68.3 | | | | |
| 127.0 | mm | x 3.18 | mm | (5") x (1/8") | 1.10 | 3.3 | | ✓ | ✓ | |
| 127.0 | mm | x 4.76 | mm | (5") x (3/16") | 1.63 | 4.9 | | ✓ | ✓ | |
| 127.0 | mm | x 6.35 | mm | (5") x (1/4") | 2.20 | 6.6 | | ✓ | ✓ | |
| 127.0 | mm | x 7.95 | mm | (5") x (5/16") | 2.73 | 8.2 | | ✓ | ✓ | |
| 127.0 | mm | x 9.53 | mm | (5") x (3/8") | 3.29 | 9.9 | | ✓ | ✓ | |
| 127.0 | mm | x 12.7 | mm | (5") x (1/2") | 4.39 | 13.2 | | ✓ | ✓ | |
| 127.0 | mm | x 15.88 | mm | (5") x (5/8") | 5.49 | 16.5 | | ✓ | ✓ | |
| 127.0 | mm | x 19.05 | mm | (5") x (3/4") | 6.58 | 19.7 | | ✓ | ✓ | |
| 127.0 | mm | x 22.23 | mm | (5") x (7/8") | 7.68 | 23.0 | | ✓ | ✓ | |
| 127.0 | mm | x 25.4 | mm | (5") x (1") | 8.78 | 26.3 | | ✓ | ✓ | |
| 127.0 | mm | x 28.58 | mm | (5") x (1 1/8") | 9.83 | 29.5 | | ✓ | ✓ | |
| 127.0 | mm | x 31.75 | mm | (5") x (1 1/4") | 10.9 | 32.8 | | ✓ | ✓ | |
| 127.0 | mm | x 34.93 | mm | (5") x (1 3/8") | 12.0 | 36.1 | | ✓ | ✓ | |
| 127.0 | mm | x 38.1 | mm | (5") x (1 1/2") | 13.1 | 39.3 | | ✓ | ✓ | |
| 127.0 | mm | x 44.45 | mm | (5") x (1 3/4") | 15.3 | 45.9 | | ✓ | ✓ | |
| 127.0 | mm | x 50.8 | mm | (5") x (2") | 17.6 | 52.8 | | ✓ | ✓ | |
| 127.0 | mm | x 57.15 | mm | (5") x (2 1/4") | 19.7 | 59.0 | | ✓ | ✓ | |
| 127.0 | mm | x 63.5 | mm | (5") x (2 1/2") | 21.9 | 65.6 | | ✓ | ✓ | |
| 127.0 | mm | x 76.2 | mm | (5") x (3") | 26.2 | 78.7 | | ✓ | ✓ | |

ALUMINIUM FLAT BAR continued

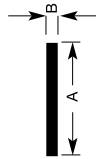


| Metric | | Imperial | | Weight Kg/m 3m bar (Kg) ¹ | "Hard" Alloys (Heat treat) ² | | | |
|----------|------------|----------|------------|--|---|------|------|------|
| A | x B | A | x B | | 2011/ 2030 | 2014 | 6061 | 6082 |
| 127.0 mm | x 82.55 mm | (5") | x (3 1/4") | 28.4 | 85.2 | | ✓ | |
| 127.0 mm | x 88.9 mm | (5") | x (3 1/2") | 30.6 | 91.8 | ✓ | ✓ | |
| 127.0 mm | x 101.6 mm | (5") | x (4") | 35.0 | 104.9 | ✓ | ✓ | |
| 127.0 mm | x 114.3 mm | (5") | x (4 1/2") | 39.3 | 118.0 | | ✓ | |
| 139.7 mm | x 3.18 mm | (5 1/2") | x (1/8") | 1.21 | 3.6 | | | |
| 139.7 mm | x 4.76 mm | (5 1/2") | x (3/16") | 1.80 | 5.4 | | | |
| 139.7 mm | x 6.35 mm | (5 1/2") | x (1/4") | 2.41 | 7.2 | ✓ | | |
| 139.7 mm | x 7.95 mm | (5 1/2") | x (5/16") | 3.00 | 9.0 | | | |
| 139.7 mm | x 9.53 mm | (5 1/2") | x (3/8") | 3.61 | 10.8 | ✓ | | |
| 139.7 mm | x 12.7 mm | (5 1/2") | x (1/2") | 4.82 | 14.5 | ✓ | ✓ | |
| 139.7 mm | x 15.88 mm | (5 1/2") | x (5/8") | 6.04 | 18.1 | | | |
| 139.7 mm | x 19.05 mm | (5 1/2") | x (3/4") | 7.25 | 21.8 | | | |
| 139.7 mm | x 22.23 mm | (5 1/2") | x (7/8") | 8.45 | 25.4 | | | |
| 139.7 mm | x 25.4 mm | (5 1/2") | x (1") | 9.66 | 29.0 | ✓ | ✓ | |
| 139.7 mm | x 28.58 mm | (5 1/2") | x (1 1/8") | 10.8 | 32.4 | | | |
| 139.7 mm | x 31.75 mm | (5 1/2") | x (1 1/8") | 12.1 | 36.3 | ✓ | | |
| 139.7 mm | x 34.93 mm | (5 1/2") | x (1 3/8") | 13.2 | 39.7 | | | |
| 139.7 mm | x 38.1 mm | (5 1/2") | x (1 1/2") | 14.5 | 43.5 | | ✓ | |
| 139.7 mm | x 44.45 mm | (5 1/2") | x (1 3/4") | 17.0 | 51.0 | ✓ | | |
| 139.7 mm | x 50.8 mm | (5 1/2") | x (2") | 19.4 | 58.2 | | ✓ | |
| 139.7 mm | x 57.15 mm | (5 1/2") | x (2 1/4") | 21.6 | 64.9 | ✓ | | |
| 139.7 mm | x 63.5 mm | (5 1/2") | x (2 1/2") | 24.0 | 72.1 | | | |
| 139.7 mm | x 76.2 mm | (5 1/2") | x (3") | 28.8 | 86.5 | | ✓ | |
| 139.7 mm | x 88.9 mm | (5 1/2") | x (3 1/2") | 33.7 | 101.0 | ✓ | ✓ | |
| 139.7 mm | x 101.6 mm | (5 1/2") | x (4") | 38.5 | 115.4 | ✓ | ✓ | |
| 139.7 mm | x 114.3 mm | (5 1/2") | x (4 1/2") | 43.3 | 129.8 | ✓ | ✓ | |
| 139.7 mm | x 127.0 mm | (5 1/2") | x (5") | 48.1 | 144.2 | | ✓ | |
| 140.0 mm | x 10.0 mm | | | 3.79 | 11.4 | ✓ | | |
| 140.0 mm | x 20.0 mm | | | 7.59 | 22.8 | | ✓ | |
| 140.0 mm | x 60.0 mm | | | 22.8 | 68.3 | | | |
| 140.0 mm | x 80.0 mm | | | 30.4 | 91.1 | | | |
| 150.0 mm | x 50.0 mm | | | 20.3 | 61.0 | ✓ | ✓ | |
| 152.4 mm | x 3.18 mm | (6") | x (1/8") | 1.31 | 3.9 | | | |

ALUMINIUM FLAT BAR continued

| Metric | | | Imperial | | | Weight Kg/m 3m bar (Kg) ¹ | "Hard" Alloys (Heat treat) ² | | | |
|--------|----|---|----------|----|---|--|---|------|------|------|
| A | x | B | A | x | B | | 2011/ 2030 | 2014 | 6061 | 6082 |
| 152.4 | mm | x | 4.76 | mm | x | (3/16") | 1.96 | | | |
| 152.4 | mm | x | 6.35 | mm | x | (1/4") | 2.62 | | ✓ | ✓ |
| 152.4 | mm | x | 7.95 | mm | x | (5/16") | 3.27 | | | |
| 152.4 | mm | x | 9.53 | mm | x | (3/8") | 3.94 | | ✓ | |
| 152.4 | mm | x | 12.7 | mm | x | (1/2") | 5.24 | | ✓ | ✓ |
| 152.4 | mm | x | 15.88 | mm | x | (5/8") | 6.56 | | ✓ | ✓ |
| 152.4 | mm | x | 19.05 | mm | x | (3/4") | 7.87 | | ✓ | ✓ |
| 152.4 | mm | x | 22.23 | mm | x | (7/8") | 9.18 | | ✓ | ✓ |
| 152.4 | mm | x | 25.4 | mm | x | (1") | 10.5 | ✓ | ✓ | ✓ |
| 152.4 | mm | x | 28.58 | mm | x | (1 1/8") | 11.8 | | | ✓ |
| 152.4 | mm | x | 31.75 | mm | x | (1 1/4") | 13.1 | | ✓ | ✓ |
| 152.4 | mm | x | 34.93 | mm | x | (1 3/8") | 14.4 | | | ✓ |
| 152.4 | mm | x | 38.1 | mm | x | (1 1/2") | 15.7 | | ✓ | ✓ |
| 152.4 | mm | x | 44.45 | mm | x | (1 3/4") | 18.4 | | ✓ | ✓ |
| 152.4 | mm | x | 50.8 | mm | x | (2") | 21.0 | | | ✓ |
| 152.4 | mm | x | 57.15 | mm | x | (2 1/4") | 23.6 | | | ✓ |
| 152.4 | mm | x | 63.5 | mm | x | (2 1/2") | 26.2 | ✓ | ✓ | ✓ |
| 152.4 | mm | x | 76.2 | mm | x | (3") | 31.5 | ✓ | ✓ | ✓ |
| 152.4 | mm | x | 88.9 | mm | x | (3 1/2") | 36.7 | | ✓ | ✓ |
| 152.4 | mm | x | 101.6 | mm | x | (4") | 42.0 | ✓ | ✓ | ✓ |
| 152.4 | mm | x | 114.3 | mm | x | (4 1/2") | 47.2 | | | ✓ |
| 152.4 | mm | x | 127.0 | mm | x | (5") | 52.5 | ✓ | ✓ | ✓ |
| 152.4 | mm | x | 139.7 | mm | x | (5 1/2") | 57.7 | | | ✓ |
| 160.0 | mm | x | 20.0 | mm | | | 8.67 | ✓ | | |
| 160.0 | mm | x | 38.1 | mm | x | (1 1/2") | 16.5 | | | |
| 160.0 | mm | x | 90.0 | mm | | | 39.0 | | | |
| 165.0 | mm | x | 15.88 | mm | x | (5/8") | 7.10 | | | |
| 165.0 | mm | x | 50.0 | mm | | | 22.4 | | | |
| 165.0 | mm | x | 100.0 | mm | | | 44.7 | | | ✓ |
| 170.0 | mm | x | 65.0 | mm | | | 30.0 | | | |
| 170.0 | mm | x | 101.6 | mm | x | (4") | 46.8 | | | |
| 170.0 | mm | x | 114.3 | mm | | | 52.7 | | | |
| 170.0 | mm | x | 115.0 | mm | x | (4 1/2") | 53.0 | | | |

ALUMINIUM FLAT BAR continued

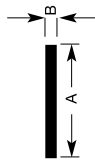


| Metric | | Imperial | | Weight | | "Hard" Alloys (Heat treat) 2 | | | | |
|--------|------------|----------|---------|--------|--------------------------|------------------------------|------|------|------|--|
| A | x B | A | x B | Kg/m | 3m bar (Kg) ¹ | 2011/ 2030 | 2014 | 6061 | 6082 | |
| 170.0 | mm x 120.0 | mm | x 120.0 | 55.3 | 165.8 | | | | ✓ | |
| 177.8 | mm x 6.35 | mm | x 6.35 | 3.06 | 9.2 | | | ✓ | | |
| 177.8 | mm x 12.7 | mm | x 12.7 | 6.12 | 18.4 | | | ✓ | | |
| 177.8 | mm x 19.05 | mm | x 19.05 | 9.18 | 27.5 | | | ✓ | | |
| 177.8 | mm x 25.4 | mm | x 25.4 | 12.2 | 36.7 | | | ✓ | | |
| 177.8 | mm x 31.75 | mm | x 31.75 | 15.3 | 45.9 | | | ✓ | | |
| 177.8 | mm x 38.1 | mm | x 38.1 | 18.4 | 55.1 | | | ✓ | | |
| 177.8 | mm x 44.45 | mm | x 44.45 | 21.4 | 64.2 | | | ✓ | | |
| 177.8 | mm x 50.8 | mm | x 50.8 | 24.5 | 73.4 | | | ✓ | | |
| 177.8 | mm x 57.15 | mm | x 57.15 | 27.5 | 82.6 | | | ✓ | | |
| 177.8 | mm x 63.5 | mm | x 63.5 | 30.6 | 91.8 | | | ✓ | | |
| 177.8 | mm x 76.2 | mm | x 76.2 | 36.7 | 110.1 | | | ✓ | | |
| 177.8 | mm x 88.9 | mm | x 88.9 | 42.8 | 128.5 | | | ✓ | | |
| 177.8 | mm x 101.6 | mm | x 101.6 | 48.9 | 146.8 | | ✓ | | | |
| 177.8 | mm x 114.3 | mm | x 114.3 | 55.1 | 165.2 | | | | | |
| 177.8 | mm x 127.0 | mm | x 127.0 | 61.2 | 183.5 | | ✓ | | | |
| 177.8 | mm x 139.7 | mm | x 139.7 | 67.3 | 201.9 | | | | | |
| 177.8 | mm x 152.4 | mm | x 152.4 | 73.4 | 220.3 | | | | | |
| 180.0 | mm x 20.0 | mm | x 20.0 | 9.76 | 29.3 | | | | | |
| 180.0 | mm x 50.0 | mm | x 50.0 | 24.4 | 73.2 | | | | ✓ | |
| 190.0 | mm x 19.05 | mm | x 19.05 | 9.80 | 29.4 | | | | | |
| 200.0 | mm x 10.0 | mm | x 10.0 | 5.42 | 16.3 | | | | | |
| 200.0 | mm x 12.0 | mm | x 12.0 | 6.50 | 19.5 | | | | ✓ | |
| 200.0 | mm x 15.0 | mm | x 15.0 | 8.13 | 24.4 | | ✓ | | | |
| 200.0 | mm x 25.0 | mm | x 25.0 | 13.6 | 40.7 | | | | | |
| 200.0 | mm x 50.0 | mm | x 50.0 | 27.1 | 81.3 | | | | | |
| 200.0 | mm x 70.0 | mm | x 70.0 | 37.9 | 113.8 | | | | | |
| 200.0 | mm x 165.0 | mm | x 165.0 | 89.4 | 268.3 | | | | | |
| 203.2 | mm x 6.35 | mm | x 6.35 | 3.50 | 10.5 | | | ✓ | | |
| 203.2 | mm x 12.7 | mm | x 12.7 | 6.99 | 21.0 | | | | ✓ | |
| 203.2 | mm x 19.05 | mm | x 19.05 | 10.5 | 31.5 | | | ✓ | | |
| 203.2 | mm x 25.4 | mm | x 25.4 | 14.0 | 41.9 | | | ✓ | | |
| 203.2 | mm x 31.75 | mm | x 31.75 | 17.5 | 52.4 | | | ✓ | | |

ALUMINIUM FLAT BAR continued

| Metric A | x B | | Imperial A x B | | Weight Kg/m 3m bar (Kg) ¹ | "Hard" Alloys (Heat treat) ² | | | | |
|-------------|-----|---------|-------------------|------------|--|---|------|------|------|--|
| | mm | mm | (8") | (10") | | 2011/ 2030 | 2014 | 6061 | 6082 | |
| 203.2 | mm | x 38.1 | mm | x (1 1/2") | 21.0 | 62.9 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 44.45 | mm | x (1 3/4") | 24.5 | 73.4 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 50.8 | mm | x (2") | 28.0 | 83.9 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 57.15 | mm | x (2 1/4") | 31.5 | 94.4 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 63.5 | mm | x (2 1/2") | 35.0 | 104.9 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 76.2 | mm | x (3") | 42.0 | 125.9 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 88.9 | mm | x (3 1/2") | 48.9 | 146.8 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 101.6 | mm | x (4") | 55.9 | 167.8 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 114.3 | mm | x (4 1/2") | 62.9 | 188.8 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 127.0 | mm | x (5") | 69.9 | 209.8 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 139.7 | mm | x (5 1/2") | 76.9 | 230.7 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 152.4 | mm | x (6") | 83.9 | 251.7 | ✓ | ✓ | ✓ | |
| 203.2 | mm | x 177.8 | mm | x (7") | 97.9 | 293.7 | ✓ | ✓ | ✓ | |
| 215.0 | mm | x 26.5 | mm | | 15.4 | 46.3 | | | | |
| 215.0 | mm | x 76.2 | mm | x (3") | 44.4 | 133.2 | ✓ | ✓ | ✓ | |
| 225.0 | mm | x 45.0 | mm | | 27.4 | 82.3 | ✓ | ✓ | ✓ | |
| 228.6 | mm | x 25.4 | mm | (9") | 15.7 | 47.2 | | | | |
| 230.0 | mm | x 63.5 | mm | x (2 1/2") | 39.6 | 118.7 | | | | |
| 230.0 | mm | x 100.0 | mm | | 62.3 | 187.0 | ✓ | ✓ | ✓ | |
| 230.0 | mm | x 115.0 | mm | | 71.7 | 215.0 | ✓ | ✓ | ✓ | |
| 234.95 | mm | x 15.88 | mm | (9 1/4") | 10.1 | 30.3 | | | | |
| 234.95 | mm | x 63.5 | mm | x (2 1/2") | 40.4 | 121.3 | ✓ | ✓ | ✓ | |
| 234.95 | mm | x 115.0 | mm | x (9 1/4") | 73.2 | 219.7 | ✓ | ✓ | ✓ | |
| 238.0 | mm | x 19.05 | mm | x (3/4") | 12.3 | 36.9 | | | | |
| 238.0 | mm | x 31.0 | mm | | 20.0 | 60.0 | ✓ | ✓ | ✓ | |
| 240.0 | mm | x 21.0 | mm | | 13.7 | 41.0 | | | | |
| 248.0 | mm | x 9.53 | mm | x (3/8") | 6.40 | 19.2 | | | | |
| 248.0 | mm | x 38.1 | mm | x (1 1/2") | 25.6 | 76.8 | | | | |
| 250.0 | mm | x 15.0 | mm | | 10.2 | 30.5 | | | | |
| 250.0 | mm | x 35.0 | mm | | 23.7 | 71.1 | | | | |
| 252.0 | mm | x 47.5 | mm | | 32.4 | 97.3 | | | | |
| 252.0 | mm | x 50.8 | mm | x (2") | 34.7 | 104.1 | | | | |
| 254.0 | mm | x 12.7 | mm | (10") | 8.74 | 26.2 | ✓ | ✓ | ✓ | |

ALUMINIUM FLAT BAR continued



| Metric | | Imperial | | Weight Kg/m 3m bar (Kg) ¹ | "Hard" Alloys (Heat treat) ² | | | | |
|-----------|------------|-----------|------------|--|---|------|------|------|--|
| A | x B | A | x B | | 2011/ 2030 | 2014 | 6061 | 6082 | |
| 254.0 mm | x 19.05 mm | (10") | x (3/4") | 13.1 | ✓ | ✓ | ✓ | | |
| 254.0 mm | x 25.4 mm | (10") | x (1") | 17.5 | ✓ | ✓ | ✓ | | |
| 254.0 mm | x 50.8 mm | (10") | x (2") | 35.0 | ✓ | ✓ | ✓ | | |
| 254.0 mm | x 101.6 mm | (10") | x (4") | 69.9 | ✓ | ✓ | ✓ | | |
| 254.0 mm | x 152.4 mm | (10") | x (6") | 104.9 | ✓ | ✓ | ✓ | | |
| 254.0 mm | x 203.2 mm | (10") | x (8") | 139.9 | ✓ | ✓ | ✓ | | |
| 266.0 mm | x 12.7 mm | | x (1/2") | 9.15 | ✓ | ✓ | ✓ | | |
| 266.7 mm | x 26.5 mm | | | 19.2 | ✓ | ✓ | ✓ | | |
| 280.0 mm | x 12.7 mm | | x (1/2") | 9.64 | ✓ | ✓ | ✓ | | |
| 280.0 mm | x 50.0 mm | | | 37.9 | ✓ | ✓ | ✓ | | |
| 280.0 mm | x 75.0 mm | | | 56.9 | ✓ | ✓ | ✓ | | |
| 284.0 mm | x 25.4 mm | | x (1") | 19.5 | ✓ | ✓ | ✓ | | |
| 284.0 mm | x 26.5 mm | | | 20.4 | ✓ | ✓ | ✓ | | |
| 284.0 mm | x 33.5 mm | | | 25.8 | ✓ | ✓ | ✓ | | |
| 285.75 mm | x 28.58 mm | (11 1/4") | x (1 1/8") | 22.1 | ✓ | ✓ | ✓ | | |
| 285.75 mm | x 31.75 mm | (11 1/4") | x (1 1/4") | 24.6 | ✓ | ✓ | ✓ | | |
| 291.59 mm | x 25.4 mm | | x (1") | 20.9 | ✓ | ✓ | ✓ | | |
| 298.45 mm | x 38.1 mm | (11 3/4") | x (1 1/2") | 30.8 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 6.35 mm | (12") | x (1/4") | 5.2 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 25.4 mm | (12") | x (1") | 21.0 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 26.5 mm | (12") | x | 21.9 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 31.75 mm | (12") | x (1 1/4") | 26.2 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 40.0 mm | (12") | x | 33.0 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 44.45 mm | (12") | x (1 3/4") | 36.7 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 50.8 mm | (12") | x (2") | 42.0 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 57.15 mm | (12") | x (2 1/4") | 47.2 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 63.5 mm | (12") | x (2 1/2") | 52.5 | ✓ | ✓ | ✓ | | |
| 304.8 mm | x 76.2 mm | (12") | x (3") | 63.0 | ✓ | ✓ | ✓ | | |
| 305.0 mm | x 16.0 mm | | | 13.2 | ✓ | ✓ | ✓ | | |
| 315.0 mm | x 27.0 mm | | | 23.1 | ✓ | ✓ | ✓ | | |
| 315.0 mm | x 35.0 mm | | | 29.9 | ✓ | ✓ | ✓ | | |
| 320.0 mm | x 19.0 mm | | | 16.5 | ✓ | ✓ | ✓ | | |
| 325.0 mm | x 12.7 mm | | x (1/2") | 11.2 | ✓ | ✓ | ✓ | | |

ALUMINIUM FLAT BAR continued

| Metric A | x B | | Imperial A x B | | | Weight Kg/m 3m bar (Kg) ¹ | "Hard" Alloys (Heat treat) ² | | | |
|-------------|-----|---------|-------------------|---|----------|--|---|------|------|------|
| | mm | mm | A | x | B | | 2011/ 2030 | 2014 | 6061 | 6082 |
| 325.0 | mm | x 25.4 | | | | 23.3 | | | | |
| 330.2 | mm | x 25.4 | (13") | x | (1") | 22.9 | | ✓ | | |
| 330.2 | mm | x 27.0 | (13") | | | 24.2 | | ✓ | | |
| 330.2 | mm | x 31.75 | (13") | | (1 1/4") | 28.4 | | ✓ | | |
| 330.2 | mm | x 38.1 | (13") | x | (1 1/2") | 34.1 | | | | |
| 330.2 | mm | x 63.5 | (13") | x | (2 1/2") | 56.8 | | | | |
| 330.2 | mm | x 70.0 | (13") | | | 62.6 | | | | |
| 330.2 | mm | x 76.2 | (13") | x | (3") | 68.2 | | | | |
| 336.0 | mm | x 25.4 | | x | (1") | 24.1 | | | | |
| 336.0 | mm | x 33.5 | | | | 30.5 | | ✓ | | |
| 342.9 | mm | x 25.4 | (13 1/2") | x | (1") | 24.6 | | | | |
| 342.9 | mm | x 31.75 | (13 1/2") | x | (1 1/4") | 29.4 | | | | |
| 342.9 | mm | x 50.8 | (13 1/2") | x | (2") | 47.2 | | ✓ | | |
| 355.0 | mm | x 280.0 | | | | 269.4 | | | | |
| 355.6 | mm | x 15.0 | (14") | | | 14.5 | | ✓ | | |
| 355.6 | mm | x 25.4 | (14") | x | (1") | 24.5 | | | | |
| 356.6 | mm | x 26.5 | (14") | | | 25.6 | | ✓ | | |
| 355.6 | mm | x 31.75 | (14") | x | (1 1/4") | 30.8 | | ✓ | | |
| 355.6 | mm | x 38.1 | (14") | x | (1 1/2") | 36.7 | | ✓ | | |
| 355.6 | mm | x 76.2 | (14") | x | (3") | 73.4 | | ✓ | | |
| 361.95 | mm | x 25.4 | (14 1/4") | x | (1") | 26.0 | | | | |
| 378.0 | mm | x 19.2 | | | | 19.7 | | | | |
| 396.875 | mm | x 9.53 | | | | 10.3 | | | | ✓ |
| 406.4 | mm | x 50.8 | (16") | x | (2") | 55.9 | | ✓ | | |
| 406.4 | mm | x 76.2 | (16") | x | (3") | 83.9 | | ✓ | | |
| 406.4 | mm | x 88.9 | (16") | x | (3 1/2") | 97.9 | | ✓ | | |
| 406.4 | mm | x 101.6 | (16") | x | (4") | 111.9 | | ✓ | | |
| 410.0 | mm | x 45.0 | | | | 50.0 | | | | |
| 411.5 | mm | x 47.25 | | | | 52.7 | | | | |
| 412.8 | mm | x 47.25 | | | | 52.9 | | | | ✓ |
| 416.0 | mm | x 34.0 | | | | 38.3 | | ✓ | | |
| 419.0 | mm | x 31.0 | | | | 35.2 | | | | ✓ |
| 444.5 | mm | x 27.5 | | | | 33.1 | | ✓ | | |

ALUMINIUM FLAT BAR continued



| Metric A | x B | | Imperial A | | x B | x (1 1/4") | x (1 1/4") | Weight | | 2011/ 2030 | 2014 | 6061 | 6082 |
|-------------|-----|---|---------------|-----|-----------|------------|------------|--------|--------------------------|---------------|------|------|------|
| | mm | x | mm | mm | | | | Kg/m | 3m bar (Kg) ¹ | | | | |
| 450.9 | mm | x | 31.75 | mm | (17 3/4") | x | (1 1/4") | 38.8 | 116.4 | | | ✓ | |
| 457.0 | mm | x | 38.1 | mm | (18") | x | (1 1/4") | 47.2 | 141.6 | | | | |
| 457.2 | mm | x | 25.0 | mm- | | x | | 31.0 | 92.9 | | | | |
| 487.7 | mm | x | 26.5 | mm | | | | 35.0 | 105.1 | | | | |
| 487.7 | mm | x | 29.0 | mm | | | | 38.3 | 115.0 | | | ✓ | |

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

2 - alloys are available in various tempers including T6 as well as others - please enquire for the temper required.

Please note that selected sizes are also available in 5083, 2017, 2024, 6063 and 7075 alloys - please ask for details.

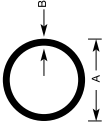
All bars can be cut to size on metalweb's state-of-the-art bar cutting equipment.

Other large flat bar sizes are available or can be produced to your exact size requirements – please enquire.

Other sizes can be cut from plate.

Special dies can be cut to meet your needs.

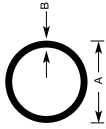
ALUMINIUM ROUND TUBE



"Hard" Alloys (Heat treat) ²

| Metric | | Imperial | | A | | X | | B | | Weight (Kg) | | 2014/ 2024 | | 6005/ 6063 | | 6082 | |
|--------|--------|----------|------|---------|----------|--------|---|---------|---------|----------------------|------|---------------|---|---------------|---|------|---|
| A | X | A | X | A | X | A | X | B | per m | 3m bar ⁻¹ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6.35 | mm o/d | x | 0.9 | mm wall | (1/4") | mm o/d | x | (20swg) | mm wall | 0.042 | 0.13 | | | | | | |
| 6.35 | mm o/d | x | 1.63 | mm wall | (1/4") | mm o/d | x | (16swg) | mm wall | 0.065 | 0.20 | | | | | | |
| 7.95 | mm o/d | x | 0.9 | mm wall | (5/16") | mm o/d | x | (20swg) | mm wall | 0.055 | 0.17 | | | | ✓ | | |
| 7.95 | mm o/d | x | 1.63 | mm wall | (5/16") | mm o/d | x | (16swg) | mm wall | 0.088 | 0.26 | | | | | | |
| 9.53 | mm o/d | x | 0.9 | mm wall | (3/8") | mm o/d | x | (20swg) | mm wall | 0.067 | 0.20 | | | | | | |
| 9.53 | mm o/d | x | 1.63 | mm wall | (3/8") | mm o/d | x | (16swg) | mm wall | 0.109 | 0.33 | | | | ✓ | | ✓ |
| 10.0 | mm o/d | x | 3.0 | mm wall | | | | | mm wall | 0.178 | 0.53 | | | | ✓ | | |
| 12.7 | mm o/d | x | 1.63 | mm wall | (1/2") | mm o/d | x | (16swg) | mm wall | 0.153 | 0.46 | | ✓ | | | | |
| 12.7 | mm o/d | x | 3.2 | mm wall | (1/2") | mm o/d | x | (10swg) | mm wall | 0.260 | 0.78 | | | | ✓ | | ✓ |
| 15.0 | mm o/d | x | 1.0 | mm wall | | | | | mm wall | 0.119 | 0.36 | | | | ✓ | | |
| 15.0 | mm o/d | x | 2.0 | mm wall | | | | | mm wall | 0.221 | 0.66 | | | | ✓ | | |
| 15.88 | mm o/d | x | 1.2 | mm wall | (5/8") | mm o/d | x | (18swg) | mm wall | 0.152 | 0.46 | | | | ✓ | | |
| 15.88 | mm o/d | x | 1.63 | mm wall | (5/8") | mm o/d | x | (16swg) | mm wall | 0.194 | 0.58 | | | | ✓ | | |
| 15.88 | mm o/d | x | 3.2 | mm wall | (5/8") | mm o/d | x | (10swg) | mm wall | 0.345 | 1.04 | | | | ✓ | | |
| 19.05 | mm o/d | x | 1.2 | mm wall | (3/4") | mm o/d | x | (18swg) | mm wall | 0.184 | 0.55 | | | | ✓ | | |
| 19.05 | mm o/d | x | 1.63 | mm wall | (3/4") | mm o/d | x | (16swg) | mm wall | 0.241 | 0.72 | | | | ✓ | | |
| 19.05 | mm o/d | x | 3.2 | mm wall | (3/4") | mm o/d | x | (10swg) | mm wall | 0.432 | 1.30 | | | | ✓ | | |
| 20.0 | mm o/d | x | 2.0 | mm wall | | | | | mm wall | 0.306 | 0.92 | | | | ✓ | | |
| 20.0 | mm o/d | x | 3.0 | mm wall | | | | | mm wall | 0.434 | 1.30 | | | | ✓ | | |
| 22.23 | mm o/d | x | 1.2 | mm wall | (7/8") | mm o/d | x | (18swg) | mm wall | 0.215 | 0.65 | | | | ✓ | | |
| 22.23 | mm o/d | x | 1.63 | mm wall | (7/8") | mm o/d | x | (16swg) | mm wall | 0.280 | 0.84 | | | | ✓ | | |
| 22.23 | mm o/d | x | 3.2 | mm wall | (7/8") | mm o/d | x | (10swg) | mm wall | 0.517 | 1.55 | | | | ✓ | | |
| 25.0 | mm o/d | x | 3.0 | mm wall | | | | | mm wall | 0.560 | 1.68 | | | | ✓ | | |
| 25.4 | mm o/d | x | 1.2 | mm wall | (1") | mm o/d | x | (18swg) | mm wall | 0.250 | 0.75 | | | | ✓ | | |
| 25.4 | mm o/d | x | 1.63 | mm wall | (1") | mm o/d | x | (16swg) | mm wall | 0.324 | 0.97 | | | | ✓ | | |
| 25.4 | mm o/d | x | 2.0 | mm wall | (1") | mm o/d | x | (14swg) | mm wall | 0.398 | 1.19 | | | | ✓ | | |
| 25.4 | mm o/d | x | 3.2 | mm wall | (1") | mm o/d | x | (10swg) | mm wall | 0.605 | 1.82 | | | | ✓ | | |
| 25.4 | mm o/d | x | 4.76 | mm wall | (1") | mm o/d | x | (3/16") | mm wall | 0.840 | 2.52 | | | | ✓ | | |
| 28.6 | mm o/d | x | 1.63 | mm wall | (1 1/8") | mm o/d | x | (16swg) | mm wall | 0.398 | 1.10 | | | | ✓ | | |
| 28.6 | mm o/d | x | 3.2 | mm wall | (1 1/8") | mm o/d | x | (10swg) | mm wall | 0.692 | 2.08 | | | | ✓ | | |
| 30.0 | mm o/d | x | 2.0 | mm wall | | | | | mm wall | 0.475 | 1.43 | | ✓ | | ✓ | | |
| 30.0 | mm o/d | x | 5.0 | mm wall | | | | | mm wall | 1.06 | 3.19 | | | | ✓ | | |

ALUMINIUM ROUND TUBE continued



"Hard" Alloys (Heat treat) ²

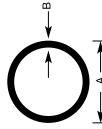
| Metric | | Imperial | | Weight (Kg) | | 2014/ 2024 | | | 6005/ 6063 | | | 6082 | | |
|--------|--------|----------|------|-------------|----------|------------|-------|----------------------|------------|------------|------|------------|------------|------|
| A | x | B | x | A | x | B | per m | 3m bar ⁻¹ | 2014/ 2024 | 6005/ 6063 | 6082 | 2014/ 2024 | 6005/ 6063 | 6082 |
| 31.75 | mm o/d | x | 1.2 | mm wall | (1 1/4") | mm o/d | x | (18swg) | mm wall | 0.319 | 0.96 | ✓ | ✓ | ✓ |
| 31.75 | mm o/d | x | 1.63 | mm wall | (1 1/2") | mm o/d | x | (16swg) | mm wall | 0.415 | 1.25 | ✓ | ✓ | ✓ |
| 31.75 | mm o/d | x | 2.64 | mm wall | (1 1/4") | mm o/d | x | (12swg) | mm wall | 0.675 | 2.03 | ✓ | ✓ | ✓ |
| 31.75 | mm o/d | x | 3.2 | mm wall | (1 1/4") | mm o/d | x | (10swg) | mm wall | 0.790 | 2.37 | ✓ | ✓ | ✓ |
| 31.75 | mm o/d | x | 6.35 | mm wall | (1 1/4") | mm o/d | x | (1/4") | mm wall | 1.57 | 4.70 | ✓ | ✓ | ✓ |
| 32.0 | mm o/d | x | 1.0 | mm wall | | | | | 0.264 | 0.79 | | ✓ | | |
| 34.93 | mm o/d | x | 1.63 | mm wall | (1 3/8") | mm o/d | x | (16swg) | mm wall | 0.460 | 1.38 | ✓ | ✓ | ✓ |
| 34.93 | mm o/d | x | 3.2 | mm wall | (1 3/8") | mm o/d | x | (10swg) | mm wall | 0.875 | 2.63 | ✓ | ✓ | ✓ |
| 38.1 | mm o/d | x | 1.63 | mm wall | (1 1/2") | mm o/d | x | (16swg) | mm wall | 0.503 | 1.51 | ✓ | ✓ | ✓ |
| 38.1 | mm o/d | x | 2.0 | mm wall | (1 1/2") | mm o/d | x | (14swg) | mm wall | 0.626 | 1.88 | ✓ | ✓ | ✓ |
| 38.1 | mm o/d | x | 3.2 | mm wall | (1 1/2") | mm o/d | x | (10swg) | mm wall | 0.963 | 2.89 | ✓ | ✓ | ✓ |
| 38.1 | mm o/d | x | 6.35 | mm wall | (1 1/2") | mm o/d | x | (1/4") | mm wall | 1.71 | 5.13 | ✓ | ✓ | ✓ |
| 40.0 | mm o/d | x | 2.0 | mm wall | | | | | 0.647 | 1.94 | | ✓ | | |
| 41.3 | mm o/d | x | 1.63 | mm wall | (1 5/8") | mm o/d | x | (16swg) | mm wall | 0.550 | 1.65 | ✓ | ✓ | ✓ |
| 41.3 | mm o/d | x | 3.2 | mm wall | (1 5/8") | mm o/d | x | (10swg) | mm wall | 1.05 | 3.15 | ✓ | ✓ | ✓ |
| 44.45 | mm o/d | x | 1.63 | mm wall | (1 3/4") | mm o/d | x | (16swg) | mm wall | 0.591 | 1.77 | ✓ | ✓ | ✓ |
| 44.45 | mm o/d | x | 3.2 | mm wall | (1 3/4") | mm o/d | x | (10swg) | mm wall | 1.14 | 3.42 | ✓ | ✓ | ✓ |
| 44.45 | mm o/d | x | 6.35 | mm wall | (1 3/4") | mm o/d | x | (1/4") | mm wall | 2.06 | 6.18 | ✓ | ✓ | ✓ |
| 44.45 | mm o/d | x | 9.53 | mm wall | (1 3/4") | mm o/d | x | (3/8") | mm wall | 2.83 | 8.49 | ✓ | ✓ | ✓ |
| 47.63 | mm o/d | x | 1.63 | mm wall | (1 7/8") | mm o/d | x | (16swg) | mm wall | 0.638 | 1.91 | ✓ | ✓ | ✓ |
| 48.4 | mm o/d | x | 4.5 | mm wall | | | x | (10swg) | mm wall | 1.65 | 4.96 | ✓ | ✓ | ✓ |
| 50.0 | mm o/d | x | 5.0 | mm wall | | | | | 1.92 | 5.75 | | ✓ | | |
| 50.8 | mm o/d | x | 1.63 | mm wall | (2") | mm o/d | x | (16swg) | mm wall | 0.680 | 2.04 | ✓ | ✓ | ✓ |
| 50.8 | mm o/d | x | 3.2 | mm wall | (2") | mm o/d | x | (10swg) | mm wall | 1.32 | 3.96 | ✓ | ✓ | ✓ |
| 50.8 | mm o/d | x | 4.8 | mm wall | (2") | mm o/d | x | (3/16") | mm wall | 1.98 | 5.94 | ✓ | ✓ | ✓ |
| 50.8 | mm o/d | x | 6.35 | mm wall | (2") | mm o/d | x | (1/4") | mm wall | 2.41 | 7.23 | ✓ | ✓ | ✓ |
| 57.15 | mm o/d | x | 1.63 | mm wall | (2 1/4") | mm o/d | x | (16swg) | mm wall | 0.766 | 2.30 | ✓ | ✓ | ✓ |
| 57.15 | mm o/d | x | 3.2 | mm wall | (2 1/4") | mm o/d | x | (10swg) | mm wall | 1.49 | 4.47 | ✓ | ✓ | ✓ |
| 57.15 | mm o/d | x | 6.35 | mm wall | (2 1/4") | mm o/d | x | (1/4") | mm wall | 2.75 | 8.26 | ✓ | ✓ | ✓ |
| 57.15 | mm o/d | x | 9.53 | mm wall | (2 1/4") | mm o/d | x | (3/8") | mm wall | 3.88 | 11.6 | ✓ | ✓ | ✓ |
| 57.15 | mm o/d | x | 12.7 | mm wall | (2 1/4") | mm o/d | x | (1/2") | mm wall | 4.80 | 14.4 | ✓ | ✓ | ✓ |

ALUMINIUM ROUND TUBE *continued*

"Hard" Alloys (Heat treat)²

| Metric | | Imperial | | A | | B | | Weight (Kg) | | 2014/ 2024 | | 6005/ 6063 | | 6082 | |
|--------|--------|----------|-------|---------|----------|--------|---------------------|---------------|---------------|---------------|---------------|---------------|------|------|--|
| A | x | B | A | x | B | per m | 3m bar ¹ | 2014/ 2024 | 6005/ 6063 | 6082 | 2014/ 2024 | 6005/ 6063 | 6082 | | |
| 60.0 | mm o/d | x | 5.0 | mm wall | | | | 2.34 | 7.02 | ✓ | ✓ | ✓ | ✓ | | |
| 60.0 | mm o/d | x | 7.5 | mm wall | | | | 3.36 | 10.1 | ✓ | ✓ | ✓ | ✓ | | |
| 60.0 | mm o/d | x | 10.0 | mm wall | | | | 4.25 | 12.8 | ✓ | ✓ | ✓ | ✓ | | |
| 63.5 | mm o/d | x | 1.63 | mm wall | (2 1/2") | mm o/d | x | 0.860 | 2.58 | ✓ | ✓ | ✓ | ✓ | | |
| 63.5 | mm o/d | x | 3.2 | mm wall | (2 1/2") | mm o/d | x | 1.67 | 5.01 | ✓ | ✓ | ✓ | ✓ | | |
| 63.5 | mm o/d | x | 6.35 | mm wall | (2 1/2") | mm o/d | x | 3.11 | 9.33 | ✓ | ✓ | ✓ | ✓ | | |
| 63.5 | mm o/d | x | 9.53 | mm wall | (2 1/2") | mm o/d | x | 4.40 | 13.2 | ✓ | ✓ | ✓ | ✓ | | |
| 69.85 | mm o/d | x | 3.2 | mm wall | (2 3/4") | mm o/d | x | 1.82 | 5.45 | ✓ | ✓ | ✓ | ✓ | | |
| 70.0 | mm o/d | x | 10.0 | mm wall | | | | 5.09 | 15.3 | ✓ | ✓ | ✓ | ✓ | | |
| 72.0 | mm o/d | x | 7.5 | mm wall | | | | 4.12 | 12.4 | ✓ | ✓ | ✓ | ✓ | | |
| 76.2 | mm o/d | x | 1.63 | mm wall | (3") | mm o/d | x | 1.05 | 3.15 | ✓ | ✓ | ✓ | ✓ | | |
| 76.2 | mm o/d | x | 3.2 | mm wall | (3") | mm o/d | x | 2.03 | 6.09 | ✓ | ✓ | ✓ | ✓ | | |
| 76.2 | mm o/d | x | 4.76 | mm wall | (3") | mm o/d | x | 2.89 | 8.68 | ✓ | ✓ | ✓ | ✓ | | |
| 76.2 | mm o/d | x | 6.35 | mm wall | (3") | mm o/d | x | 3.78 | 11.3 | ✓ | ✓ | ✓ | ✓ | | |
| 76.2 | mm o/d | x | 12.7 | mm wall | (3") | mm o/d | x | 6.86 | 20.6 | ✓ | ✓ | ✓ | ✓ | | |
| 82.55 | mm o/d | x | 3.2 | mm wall | (3 1/4") | mm o/d | x | 2.20 | 6.60 | ✓ | ✓ | ✓ | ✓ | | |
| 88.9 | mm o/d | x | 1.63 | mm wall | (3 1/2") | mm o/d | x | 1.21 | 3.62 | ✓ | ✓ | ✓ | ✓ | | |
| 88.9 | mm o/d | x | 3.2 | mm wall | (3 1/2") | mm o/d | x | 2.37 | 7.11 | ✓ | ✓ | ✓ | ✓ | | |
| 88.9 | mm o/d | x | 6.35 | mm wall | (3 1/2") | mm o/d | x | 4.48 | 13.4 | ✓ | ✓ | ✓ | ✓ | | |
| 88.9 | mm o/d | x | 12.7 | mm wall | (3 1/2") | mm o/d | x | 8.24 | 24.7 | ✓ | ✓ | ✓ | ✓ | | |
| 88.9 | mm o/d | x | 25.4 | mm wall | (3 1/2") | mm o/d | x | 13.7 | 41.2 | ✓ | ✓ | ✓ | ✓ | | |
| 100.0 | mm o/d | x | 10.0 | mm wall | | | | 7.63 | 22.9 | ✓ | ✓ | ✓ | ✓ | | |
| 101.6 | mm o/d | x | 1.63 | mm wall | (4") | mm o/d | x | 1.38 | 4.14 | ✓ | ✓ | ✓ | ✓ | | |
| 101.6 | mm o/d | x | 3.2 | mm wall | (4") | mm o/d | x | 2.73 | 8.19 | ✓ | ✓ | ✓ | ✓ | | |
| 101.6 | mm o/d | x | 6.35 | mm wall | (4") | mm o/d | x | 5.17 | 15.5 | ✓ | ✓ | ✓ | ✓ | | |
| 101.6 | mm o/d | x | 15.88 | mm wall | (4") | mm o/d | x | 12.9 | 38.8 | ✓ | ✓ | ✓ | ✓ | | |
| 101.6 | mm o/d | x | 19.05 | mm wall | (4") | mm o/d | x | 13.4 | 40.1 | ✓ | ✓ | ✓ | ✓ | | |
| 114.3 | mm o/d | x | 3.2 | mm wall | (4 1/2") | mm o/d | x | 3.08 | 9.24 | ✓ | ✓ | ✓ | ✓ | | |
| 114.3 | mm o/d | x | 6.35 | mm wall | (4 1/2") | mm o/d | x | 5.86 | 17.6 | ✓ | ✓ | ✓ | ✓ | | |
| 114.3 | mm o/d | x | 19.05 | mm wall | (4 1/2") | mm o/d | x | 15.4 | 46.3 | ✓ | ✓ | ✓ | ✓ | | |
| 114.3 | mm o/d | x | 25.4 | mm wall | (4 1/2") | mm o/d | x | 19.2 | 57.6 | ✓ | ✓ | ✓ | ✓ | | |
| 120.0 | mm o/d | x | 15.0 | mm wall | | | | 13.4 | 40.1 | ✓ | ✓ | ✓ | ✓ | | |

ALUMINIUM ROUND TUBE continued



"Hard" Alloys (Heat treat) 2

| Metric | A | | B | | Imperial A | x | x | B | Weight (Kg) per m | 3m bar ⁻¹ | 2014/ 2024 | 6005/ 6063 | 6082 |
|--------|--------|---|-------|---------|---------------|--------|---|----------|----------------------|----------------------|---------------|---------------|------|
| | o/d | x | o/d | x | | | | | | | 2014/ 2024 | 6005/ 6063 | 6082 |
| 120.0 | mm o/d | x | 18.0 | mm wall | (5") | mm o/d | x | (10swg) | mm wall | 48.1 | ✓ | | |
| 127.0 | mm o/d | x | 3.2 | mm wall | (5") | mm o/d | x | (1/4") | mm wall | 10.3 | | ✓ | ✓ |
| 127.0 | mm o/d | x | 6.35 | mm wall | (5 1/2") | mm o/d | x | (1/4") | mm wall | 19.6 | | ✓ | ✓ |
| 139.7 | mm o/d | x | 6.35 | mm wall | (5 1/2") | mm o/d | x | (3/8") | mm wall | 21.6 | | ✓ | ✓ |
| 139.7 | mm o/d | x | 9.53 | mm wall | (5 1/2") | mm o/d | x | (3/8") | mm wall | 31.7 | | ✓ | ✓ |
| 139.7 | mm o/d | x | 12.7 | mm wall | (5 1/2") | mm o/d | x | (1/2") | mm wall | 41.2 | | ✓ | ✓ |
| 139.7 | mm o/d | x | 19.05 | mm wall | (5 1/2") | mm o/d | x | (3/4") | mm wall | 58.7 | | ✓ | ✓ |
| 139.7 | mm o/d | x | 31.75 | mm wall | (5 1/2") | mm o/d | x | (1 1/4") | mm wall | 87.5 | | ✓ | ✓ |
| 146.05 | mm o/d | x | 22.23 | mm wall | (5 3/4") | mm o/d | x | (7/8") | mm wall | 23.4 | ✓ | | |
| 152.4 | mm o/d | x | 3.2 | mm wall | (6") | mm o/d | x | (10swg) | mm wall | 12.4 | | ✓ | ✓ |
| 152.4 | mm o/d | x | 6.35 | mm wall | (6") | mm o/d | x | (1/4") | mm wall | 23.7 | | ✓ | ✓ |
| 152.4 | mm o/d | x | 25.4 | mm wall | (6") | mm o/d | x | (1") | mm wall | 82.4 | | ✓ | ✓ |
| 165.1 | mm o/d | x | 6.35 | mm wall | (6 1/2") | mm o/d | x | (1/4") | mm wall | 8.6 | | ✓ | ✓ |
| 165.1 | mm o/d | x | 25.4 | mm wall | (6 1/2") | mm o/d | x | (1") | mm wall | 30.2 | | ✓ | ✓ |
| 180.0 | mm o/d | x | 20.0 | mm wall | (8") | mm o/d | x | (1") | mm wall | 27.1 | | ✓ | ✓ |
| 203.2 | mm o/d | x | 25.4 | mm wall | (8") | mm o/d | x | (1") | mm wall | 38.4 | | ✓ | ✓ |
| 203.2 | mm o/d | x | 38.1 | mm wall | (8") | mm o/d | x | (1 1/2") | mm wall | 115.3 | | ✓ | ✓ |
| 215.9 | mm o/d | x | 25.4 | mm wall | (8 1/2") | mm o/d | x | (1") | mm wall | 160.6 | | ✓ | ✓ |
| 220.0 | mm o/d | x | 12.5 | mm wall | (8 1/2") | mm o/d | x | (1") | mm wall | 41.2 | | ✓ | ✓ |
| 220.0 | mm o/d | x | 25.0 | mm wall | (9") | mm o/d | x | (1/2") | mm wall | 22.0 | | ✓ | ✓ |
| 228.6 | mm o/d | x | 12.7 | mm wall | (9") | mm o/d | x | (1/2") | mm wall | 66.0 | | ✓ | ✓ |
| 230.0 | mm o/d | x | 30.0 | mm wall | (9") | mm o/d | x | (1/2") | mm wall | 41.3 | | ✓ | ✓ |
| 240.0 | mm o/d | x | 5.0 | mm wall | (10") | mm o/d | x | (1") | mm wall | 23.3 | | ✓ | ✓ |
| 240.0 | mm o/d | x | 20.0 | mm wall | (10") | mm o/d | x | (1") | mm wall | 50.9 | | ✓ | ✓ |
| 254.0 | mm o/d | x | 25.4 | mm wall | (10 1/4") | mm o/d | x | (1") | mm wall | 10.0 | | ✓ | ✓ |
| 266.0 | mm o/d | x | 25.4 | mm wall | (10 1/4") | mm o/d | x | (1") | mm wall | 29.9 | | ✓ | ✓ |
| 304.8 | mm o/d | x | 6.35 | mm wall | (12") | mm o/d | x | (1/4") | mm wall | 37.3 | | ✓ | ✓ |
| 304.8 | mm o/d | x | 12.7 | mm wall | (12") | mm o/d | x | (1/2") | mm wall | 49.4 | | ✓ | ✓ |
| 304.8 | mm o/d | x | 25.4 | mm wall | (12") | mm o/d | x | (1") | mm wall | 148.2 | | ✓ | ✓ |
| 320.0 | mm o/d | x | 65.0 | mm wall | (13") | mm o/d | x | (2") | mm wall | 52.0 | | ✓ | ✓ |
| 330.2 | mm o/d | x | 50.8 | mm wall | (13") | mm o/d | x | (2") | mm wall | 156.0 | | ✓ | ✓ |
| 400.0 | mm o/d | x | 16.0 | mm wall | (13") | mm o/d | x | (2") | mm wall | 156.3 | | ✓ | ✓ |

ALUMINIUM ROUND TUBE *continued*

| Metric | A | | B | | Imperial | | A | | B | | Weight (Kg) | | 2014/ 2024 | | 6005/ 6063 | | 6082 | |
|--------|--------|---|--------|---------|----------|--------|---|--------|---------|-------|---------------------|---------------|---------------|------|---------------|---|------|--|
| | mm o/d | x | mm o/d | x | (16") | mm o/d | x | (1/2") | mm wall | per m | 3m bar ¹ | 2014/ 2024 | 6005/ 6063 | 6082 | ✓ | ✓ | | |
| 400.0 | mm o/d | x | 30.0 | mm wall | | | | | | 94.5 | 283.4 | | | | ✓ | | | |
| 406.4 | mm o/d | x | 12.7 | mm wall | (16") | mm o/d | x | (1/2") | mm wall | 42.5 | 127.6 | | | | ✓ | | | |
| 410.0 | mm o/d | x | 45.0 | mm wall | | | | | | 139.8 | 419.3 | | | | | | | |

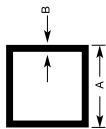
A full range of imperial sizes in 6061 round tube are available from RSAC group stocks - please ask for details
 Please note that a few selected sizes are also available in 1050, 5083, 5754, 2007 and 7075 alloys

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

2 - alloys are available in various tempers including T6 as well as others - please enquire for the temper required

Special dies can be cut to meet your needs.

ALUMINIUM SQUARE TUBE



| Metric | | Imperial | | Weight (Kg) | | "Hard" Alloys (Heat treat) ² | |
|----------|-----------|----------|----------|-------------|---------------------|---|------|
| A | x B | A | x B | per m | 3m bar ¹ | 6005/ 6063 | 6082 |
| 10.0 mm | sq x 1.0 | mm wall | | 0.123 | 0.37 | ✓ | |
| 12.7 mm | sq x 1.63 | mm wall | (1/2") | 0.200 | 0.60 | ✓ | ✓ |
| 19.05 mm | sq x 1.63 | mm wall | (3/4") | 0.320 | 0.96 | ✓ | ✓ |
| 19.05 mm | sq x 3.2 | mm wall | (3/4") | 0.432 | 1.30 | ✓ | ✓ |
| 20.0 mm | sq x 3.0 | mm wall | | 0.432 | 1.30 | ✓ | |
| 25.4 mm | sq x 1.63 | mm wall | (1") | 0.422 | 1.27 | ✓ | ✓ |
| 25.4 mm | sq x 3.2 | mm wall | (1") | 0.780 | 2.34 | ✓ | ✓ |
| 31.75 mm | sq x 1.63 | mm wall | (1 1/4") | 0.544 | 1.63 | ✓ | ✓ |
| 31.75 mm | sq x 3.2 | mm wall | (1 1/4") | 0.984 | 2.95 | ✓ | ✓ |
| 38.1 mm | sq x 1.63 | mm wall | (1 1/2") | 0.666 | 2.00 | ✓ | ✓ |
| 38.1 mm | sq x 3.2 | mm wall | (1 1/2") | 1.218 | 3.65 | ✓ | ✓ |
| 40.0 mm | sq x 3.0 | mm wall | | 1.203 | 3.61 | ✓ | ✓ |
| 40.0 mm | sq x 5.0 | mm wall | | 2.270 | 6.81 | ✓ | ✓ |
| 44.5 mm | sq x 3.2 | mm wall | (1 3/4") | 1.453 | 4.36 | ✓ | ✓ |
| 50.0 mm | sq x 3.0 | mm wall | | 1.603 | 4.81 | ✓ | |
| 50.0 mm | sq x 5.0 | mm wall | | 2.672 | 8.02 | ✓ | ✓ |
| 50.8 mm | sq x 1.63 | mm wall | (2") | 0.871 | 2.61 | ✓ | ✓ |
| 50.8 mm | sq x 3.2 | mm wall | (2") | 1.700 | 5.10 | ✓ | ✓ |
| 50.8 mm | sq x 4.76 | mm wall | (2") | 2.380 | 7.14 | ✓ | ✓ |
| 50.8 mm | sq x 6.35 | mm wall | (2") | 3.060 | 9.18 | ✓ | ✓ |
| 60.0 mm | sq x 4.0 | mm wall | (2 1/4") | 2.428 | 7.28 | ✓ | ✓ |
| 63.5 mm | sq x 3.2 | mm wall | (2 1/2") | 2.140 | 6.42 | ✓ | ✓ |
| 70.0 mm | sq x 4.0 | mm wall | | 3.154 | 9.46 | ✓ | |
| 76.2 mm | sq x 3.2 | mm wall | (3") | 2.523 | 7.57 | ✓ | ✓ |
| 76.2 mm | sq x 4.76 | mm wall | (3") | 3.500 | 10.5 | ✓ | |
| 76.2 mm | sq x 6.35 | mm wall | (3") | 4.669 | 14.0 | ✓ | ✓ |
| 80.0 mm | sq x 6.0 | mm wall | (3 1/2") | 4.996 | 15.0 | ✓ | ✓ |
| 88.9 mm | sq x 3.2 | mm wall | | 2.798 | 8.4 | ✓ | ✓ |
| 90.0 mm | sq x 4.0 | mm wall | | 3.330 | 9.99 | ✓ | ✓ |
| 100.0 mm | sq x 5.0 | mm wall | | 4.163 | 12.5 | ✓ | ✓ |
| 100.0 mm | sq x 10.0 | mm wall | | 10.92 | 32.8 | ✓ | ✓ |

ALUMINIUM SQUARE TUBE *continued*

| Metric A | x | | B | Imperial A | | | x | B | Weight (Kg) 3m bar ¹ per m | "Hard" Alloys (Heat treat) ² | | | |
|-------------|----|---|------|---------------|------|----|---|---------|---|---|---------|---------------|------|
| | sq | x | | mm wall | (4") | sq | | | | x | (10swg) | 6005/ 6063 | 6082 |
| 101.6 mm | sq | x | 3.2 | mm wall | (4") | sq | x | (10swg) | wall | 3.495 | 10.5 | ✓ | ✓ |
| 101.6 mm | sq | x | 6.35 | mm wall | (4") | sq | x | (1/4") | wall | 3.495 | 10.5 | ✓ | ✓ |
| 127.0 mm | sq | x | 4.76 | mm wall | (5") | sq | x | (3/16") | wall | 6.700 | 20.1 | ✓ | ✓ |
| 127.0 mm | sq | x | 6.35 | mm wall | (5") | sq | x | (1/4") | wall | 8.938 | 26.8 | ✓ | ✓ |
| 150.0 mm | sq | x | 5.0 | mm wall | (6") | sq | x | (1/4") | wall | 7.780 | 23.3 | ✓ | ✓ |
| 152.4 mm | sq | x | 6.35 | mm wall | (6") | sq | x | (3/8") | wall | 10.00 | 30.0 | ✓ | ✓ |
| 152.4 mm | sq | x | 9.53 | mm wall | (6") | sq | x | (3/8") | wall | 15.01 | 45.0 | ✓ | ✓ |

6061 square tube is available from RSAC group stocks - imperial sizes only

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

2 - alloys are available in various tempers including T6 as well as others - please enquire for the temper required

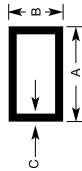
Special dies can be cut to meet your needs.

Please talk to our dedicated sales team who can work with you to achieve the shape, size and tolerances required

We can supply extrusions to your own design. Special dies can take a few weeks to cut and sample, but we can stock, cut-to-size, "finish" and supply to your needs including on a Kanban basis.

All standard sections and special custom designed dies can be cut and processed – whether painted, anodised or polished – to whatever colour or finish you require.

ALUMINIUM RECTANGULAR TUBE



"Hard" Alloys (Heat treat)²
6005/
6063 6082

| Metric | | Imperial | | | Weight (Kg) | | | | | | | | | |
|--------|----|----------|-------|----|-------------|-------|----|------|----------|-------|---------------------|---|---------|------|
| A | x | B | x | C | A | x | B | x | C | per m | 3m bar ¹ | | | |
| 20.0 | mm | x | 15.0 | mm | x | 2.0 | mm | wall | | 0.335 | 1.00 | ✓ | | |
| 25.4 | mm | x | 12.7 | mm | x | 3.175 | mm | wall | (1") | x | (1/2") | x | (1/8") | wall |
| 30.0 | mm | x | 15.0 | mm | x | 2.0 | mm | wall | | 0.443 | 1.33 | ✓ | | |
| 30.0 | mm | x | 20.0 | mm | x | 3.0 | mm | wall | | 0.713 | 2.14 | ✓ | | |
| 38.1 | mm | x | 19.05 | mm | x | 1.6 | mm | wall | (1 1/2") | x | (3/4") | x | (1/16") | wall |
| 38.1 | mm | x | 19.05 | mm | x | 3.2 | mm | wall | (1 1/2") | x | (3/4") | x | (10swg) | wall |
| 38.1 | mm | x | 25.4 | mm | x | 1.6 | mm | wall | (1 1/2") | x | (1") | x | (1/16") | wall |
| 38.1 | mm | x | 25.4 | mm | x | 1.63 | mm | wall | (1 1/2") | x | (1") | x | (16swg) | wall |
| 40.0 | mm | x | 20.0 | mm | x | 2.0 | mm | wall | | 0.632 | 1.81 | ✓ | | |
| 40.0 | mm | x | 30.0 | mm | x | 3.0 | mm | wall | | 1.037 | 3.11 | ✓ | | |
| 50.0 | mm | x | 25.0 | mm | x | 3.0 | mm | wall | | 1.120 | 3.36 | ✓ | | |
| 50.0 | mm | x | 30.0 | mm | x | 3.0 | mm | wall | | 1.344 | 4.03 | ✓ | | |
| 50.8 | mm | x | 25.4 | mm | x | 1.6 | mm | wall | (2") | x | (1") | x | (1/16") | wall |
| 50.8 | mm | x | 25.4 | mm | x | 3.2 | mm | wall | (2") | x | (1") | x | (10swg) | wall |
| 50.8 | mm | x | 38.1 | mm | x | 3.2 | mm | wall | (2") | x | (1 1/2") | x | (10swg) | wall |
| 60.0 | mm | x | 25.0 | mm | x | 3.0 | mm | wall | | 1.280 | 3.84 | ✓ | | |
| 60.0 | mm | x | 40.0 | mm | x | 4.0 | mm | wall | | 1.987 | 5.96 | ✓ | | |
| 76.2 | mm | x | 25.4 | mm | x | 3.2 | mm | wall | (3") | x | (1") | x | (10swg) | wall |
| 76.2 | mm | x | 38.1 | mm | x | 1.6 | mm | wall | (3") | x | (1 1/2") | x | (1/16") | wall |
| 76.2 | mm | x | 38.1 | mm | x | 3.2 | mm | wall | (3") | x | (1 1/2") | x | (10swg) | wall |
| 76.2 | mm | x | 50.8 | mm | x | 3.2 | mm | wall | (3") | x | (2") | x | (10swg) | wall |
| 80.0 | mm | x | 40.0 | mm | x | 4.0 | mm | wall | | 2.419 | 7.26 | ✓ | | |
| 100.0 | mm | x | 40.0 | mm | x | 4.0 | mm | wall | | 2.851 | 8.55 | ✓ | | |
| 100.0 | mm | x | 50.0 | mm | x | 3.0 | mm | wall | | 2.333 | 7.00 | ✓ | | |
| 100.0 | mm | x | 80.0 | mm | x | 3.0 | mm | wall | | 2.819 | 8.46 | ✓ | | |
| 101.6 | mm | x | 25.4 | mm | x | 3.2 | mm | wall | (4") | x | (1") | x | (10swg) | wall |
| 101.6 | mm | x | 44.45 | mm | x | 3.2 | mm | wall | (4") | x | (1 3/4") | x | (10swg) | wall |
| 101.6 | mm | x | 50.8 | mm | x | 3.2 | mm | wall | (4") | x | (2") | x | (10swg) | wall |
| 120.0 | mm | x | 30.0 | mm | x | 3.0 | mm | wall | | 2.333 | 7.00 | ✓ | | |
| 120.0 | mm | x | 50.0 | mm | x | 4.0 | mm | wall | | 3.499 | 10.5 | ✓ | | |
| 152.4 | mm | x | 50.8 | mm | x | 3.2 | mm | wall | (6") | x | (2") | x | (10swg) | wall |
| | | | | | | | | | | 3.400 | 10.2 | ✓ | | |

ALUMINIUM RECTANGULAR TUBE continued

| Metric A | Metric | | | Imperial | | | Weight (Kg) per m 3m bar ¹ | "Hard" Alloys (Heat treat) ² 6005/ 6063 6082 | | | | | |
|-------------|--------|----------|---|--------------|------|---|---|---|--------|------|-------|------|---|
| | A | B | C | A | B | C | | | | | | | |
| 152.4 mm | x | 101.6 mm | x | 3.18 mm wall | (6") | x | (4") | x | (1/8") | wall | 4.271 | 12.8 | ✓ |
| 152.4 mm | x | 101.6 mm | x | 6.35 mm wall | (6") | x | (4") | x | (1/4") | wall | 8.483 | 25.4 | ✓ |
| 203.2 mm | x | 101.6 mm | x | 6.35 mm wall | (8") | x | (4") | x | (1/4") | wall | 10.06 | 30.2 | ✓ |
| 240.0 mm | x | 100.0 mm | x | 4.0 mm wall | | | | | | | 7.171 | 21.5 | ✓ |
| 300.0 mm | x | 120.0 mm | x | 4.0 mm wall | | | | | | | 8.899 | 26.7 | ✓ |

6061 rectangular tube is available from RSAC group stocks - imperial sizes only.

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

2 - alloys are available in various tempers including T6 as well as others - please enquire for the temper required.

Special dies can be cut to meet your needs.

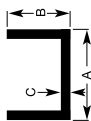
Please talk to our dedicated sales team who can work with you to achieve the shape, size and tolerances required.

We can supply extrusions to your own design. Special dies can take a few weeks to cut and sample, but we can stock, cut-to-size, "finish" and supply to your needs including on a Kanban basis.

All standard sections and special custom designed dies can be cut and processed – whether painted, anodised or polished – to whatever colour or finish you require.

Other extrusions and shapes specifically for the building industry – such as mouldings or fillers – are available from stock.

CHANNEL



"Hard" Alloys (Heat treat) 2

| Metric | | | | Imperial | | | | Weight (Kg) | | | "Hard" Alloys (Heat treat) 2 | | | | | | |
|--------|----|---|-------|----------|---|------|----|-------------|---------------------|------|------------------------------|------|---------|-------|------|---|---|
| A | X | B | C | A | X | B | C | per m | 3m bar ¹ | 6061 | 6063 | 6082 | | | | | |
| 9.53 | mm | X | 9.53 | mm | X | 1.6 | mm | X | (3/8") | X | (3/8") | X | (1/16") | 0.110 | 0.33 | ✓ | ✓ |
| 12.7 | mm | X | 12.7 | mm | X | 1.6 | mm | X | (1/2") | X | (1/2") | X | (1/16") | 0.150 | 0.45 | ✓ | ✓ |
| 12.7 | mm | X | 12.7 | mm | X | 3.18 | mm | X | (1/2") | X | (1/2") | X | (1/8") | 0.272 | 0.82 | ✓ | ✓ |
| 15.9 | mm | X | 15.9 | mm | X | 1.6 | mm | X | (5/8") | X | (5/8") | X | (1/16") | 0.196 | 0.59 | ✓ | ✓ |
| 15.9 | mm | X | 15.9 | mm | X | 3.18 | mm | X | (5/8") | X | (5/8") | X | (1/8") | 0.351 | 1.05 | ✓ | ✓ |
| 19.05 | mm | X | 12.7 | mm | X | 3.18 | mm | X | (3/4") | X | (1/2") | X | (1/8") | 0.329 | 0.99 | ✓ | ✓ |
| 19.05 | mm | X | 19.05 | mm | X | 1.6 | mm | X | (3/4") | X | (3/4") | X | (1/16") | 0.239 | 0.72 | ✓ | ✓ |
| 19.05 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (3/4") | X | (3/4") | X | (1/8") | 0.440 | 1.32 | ✓ | ✓ |
| 22.25 | mm | X | 22.25 | mm | X | 3.18 | mm | X | (7/8") | X | (7/8") | X | (1/8") | 0.521 | 1.56 | ✓ | ✓ |
| 25.4 | mm | X | 12.7 | mm | X | 3.18 | mm | X | (1") | X | (1/2") | X | (1/8") | 0.384 | 1.15 | ✓ | ✓ |
| 25.4 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (1") | X | (3/4") | X | (1/8") | 0.494 | 1.48 | ✓ | ✓ |
| 25.4 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1") | X | (1") | X | (1/8") | 0.603 | 1.81 | ✓ | ✓ |
| 25.4 | mm | X | 38.1 | mm | X | 3.18 | mm | X | (1 1/2") | X | (1 1/2") | X | (1/8") | 0.830 | 2.49 | ✓ | ✓ |
| 28.58 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1 1/8") | X | (1") | X | (1/8") | 0.631 | 1.89 | ✓ | ✓ |
| 31.75 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (1 1/4") | X | (3/4") | X | (1/8") | 0.550 | 1.65 | ✓ | ✓ |
| 31.75 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1 1/4") | X | (1") | X | (1/8") | 0.689 | 2.07 | ✓ | ✓ |
| 31.75 | mm | X | 31.75 | mm | X | 3.18 | mm | X | (1 1/4") | X | (1 1/4") | X | (1/8") | 0.765 | 2.30 | ✓ | ✓ |
| 34.93 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1 3/8") | X | (1") | X | (1/8") | 0.685 | 2.06 | ✓ | ✓ |
| 38.1 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (1 1/2") | X | (3/4") | X | (1/8") | 0.604 | 1.81 | ✓ | ✓ |
| 38.1 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1 1/2") | X | (1 1/2") | X | (1/8") | 0.713 | 2.14 | ✓ | ✓ |
| 38.1 | mm | X | 38.1 | mm | X | 3.18 | mm | X | (1 1/2") | X | (1 1/2") | X | (1/8") | 0.931 | 2.79 | ✓ | ✓ |
| 38.1 | mm | X | 50.8 | mm | X | 3.18 | mm | X | (1 1/2") | X | (1 1/2") | X | (3/16") | 1.360 | 4.08 | ✓ | ✓ |
| 44.45 | mm | X | 25.4 | mm | X | 4.76 | mm | X | (2") | X | (1") | X | (1/8") | 0.765 | 2.30 | ✓ | ✓ |
| 50.8 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (2") | X | (1") | X | (1/4") | 0.821 | 2.46 | ✓ | ✓ |
| 50.8 | mm | X | 25.4 | mm | X | 6.35 | mm | X | (2") | X | (1") | X | (1/4") | 1.533 | 4.60 | ✓ | ✓ |
| 50.8 | mm | X | 38.1 | mm | X | 3.18 | mm | X | (2") | X | (1 1/2") | X | (1/8") | 1.020 | 3.06 | ✓ | ✓ |
| 50.8 | mm | X | 38.1 | mm | X | 6.35 | mm | X | (2") | X | (1 1/2") | X | (1/4") | 1.970 | 5.91 | ✓ | ✓ |
| 50.8 | mm | X | 50.8 | mm | X | 3.18 | mm | X | (2") | X | (1 1/2") | X | (1/8") | 1.260 | 3.78 | ✓ | ✓ |
| 50.8 | mm | X | 50.8 | mm | X | 6.35 | mm | X | (2") | X | (2") | X | (1/4") | 2.411 | 7.23 | ✓ | ✓ |
| 63.5 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (2 1/2") | X | (1") | X | (1/8") | 0.933 | 2.80 | ✓ | ✓ |
| 76.2 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (3") | X | (1") | X | (1/8") | 1.042 | 3.13 | ✓ | ✓ |
| 76.2 | mm | X | 38.1 | mm | X | 3.18 | mm | X | (3") | X | (1 1/2") | X | (1/8") | 1.260 | 3.78 | ✓ | ✓ |
| 76.2 | mm | X | 50.8 | mm | X | 3.18 | mm | X | (3") | X | (2") | X | (1/8") | 1.480 | 4.44 | ✓ | ✓ |

CHANNEL continued

"Hard" Alloys (Heat treat) 2

| Metric A | X | | | C | | | Imperial | | | | Weight (Kg) | | 6061 | | 6063 | | 6082 | | |
|-------------|---|---------|---|---------|---|---|----------|---|----------|---|-------------|-------|---------------------|---|------|--|------|---|--|
| | A | B | X | A | B | X | A | X | B | X | C | per m | 3m bar ¹ | | | | | | |
| 76.2 mm | x | 50.8 mm | x | 6.35 mm | | | (3") | x | (2") | x | (1/4") | 2.850 | 8.55 | ✓ | ✓ | | ✓ | ✓ | |
| 76.2 mm | x | 76.2 mm | x | 3.18 mm | | | (3") | x | (3") | x | (1/8") | 1.954 | 5.86 | ✓ | ✓ | | ✓ | ✓ | |
| 101.6 mm | x | 50.8 mm | x | 3.18 mm | | | (4") | x | (2") | x | (1/8") | 1.690 | 5.07 | ✓ | ✓ | | ✓ | ✓ | |
| 101.6 mm | x | 50.8 mm | x | 6.35 mm | | | (4") | x | (2") | x | (1/4") | 3.762 | 11.3 | ✓ | ✓ | | ✓ | ✓ | |
| 127.0 mm | x | 50.8 mm | x | 4.76 mm | | | (5") | x | (2") | x | (3/16") | 2.842 | 8.53 | ✓ | ✓ | | ✓ | ✓ | |
| 152.4 mm | x | 63.5 mm | x | 4.76 mm | | | (6") | x | (2 1/2") | x | (3/16") | 4.212 | 12.6 | ✓ | ✓ | | ✓ | ✓ | |
| 152.4 mm | x | 76.2 mm | x | 6.35 mm | | | (6") | x | (3") | x | (1/4") | 6.430 | 19.3 | ✓ | ✓ | | ✓ | ✓ | |
| 254.0 mm | x | 88.9 mm | x | 6.35 mm | | | (10") | x | (3 1/2") | x | (1/4") | 9.137 | 27.4 | ✓ | ✓ | | ✓ | ✓ | |

Some selected sizes are available in 5083 alloy - please enquire for details

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

2 - alloys are available in various tempers including T6 as well as others - please enquire for the temper required

Special dies can be cut to meet your needs.

Please talk to our dedicated sales team who can work with you to achieve the shape, size and tolerances required

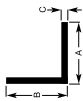
We can supply extrusions to your own design. Special dies can take a few weeks to cut and sample, but we can stock,

cut-to-size, "finish" and supply to your needs including on a Kanban basis.

All standard sections and special custom designed dies can be cut and processed – whether painted, anodised or polished

– to whatever colour or finish you require.

EQUAL ANGLE



"Hard" Alloys (Heat treat) 2

| Metric A | X | B | X | C | Imperial | | | | Weight (Kg) | | "Hard" Alloys (Heat treat) 2 | | | | | | |
|-------------|----|---|-------|----|----------|------|----|---|-------------|-------|------------------------------|------|---------|-------|------|---|---|
| | | | | | A | X | B | X | C | per m | 3m bar ¹ | 6061 | 6063 | 6082 | | | |
| 12.7 | mm | X | 12.7 | mm | X | 1.6 | mm | X | (1/2") | X | (1/16") | X | (1/16") | 0.104 | 0.31 | ✓ | ✓ |
| 12.7 | mm | X | 12.7 | mm | X | 3.18 | mm | X | (1/2") | X | (1/2") | X | (1/8") | 0.192 | 0.58 | ✓ | ✓ |
| 15.9 | mm | X | 15.9 | mm | X | 1.6 | mm | X | (5/8") | X | (5/8") | X | (1/16") | 0.130 | 0.39 | ✓ | ✓ |
| 15.9 | mm | X | 15.9 | mm | X | 3.18 | mm | X | (5/8") | X | (5/8") | X | (1/8") | 0.250 | 0.75 | ✓ | ✓ |
| 19.05 | mm | X | 19.05 | mm | X | 1.6 | mm | X | (3/4") | X | (3/4") | X | (1/16") | 0.160 | 0.48 | ✓ | ✓ |
| 19.05 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (3/4") | X | (3/4") | X | (1/8") | 0.302 | 0.91 | ✓ | ✓ |
| 22.23 | mm | X | 22.23 | mm | X | 3.18 | mm | X | (7/8") | X | (7/8") | X | (1/8") | 0.360 | 1.1 | ✓ | ✓ |
| 25.4 | mm | X | 25.4 | mm | X | 1.6 | mm | X | (1") | X | (1") | X | (1/16") | 0.213 | 0.64 | ✓ | ✓ |
| 25.4 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1") | X | (1") | X | (1/8") | 0.411 | 1.2 | ✓ | ✓ |
| 25.4 | mm | X | 25.4 | mm | X | 4.76 | mm | X | (1") | X | (1") | X | (3/16") | 0.600 | 1.8 | ✓ | ✓ |
| 25.4 | mm | X | 25.4 | mm | X | 6.35 | mm | X | (1") | X | (1") | X | (1/4") | 0.770 | 2.3 | ✓ | ✓ |
| 31.75 | mm | X | 31.75 | mm | X | 1.6 | mm | X | (1 1/4") | X | (1 1/4") | X | (1/16") | 0.270 | 0.81 | ✓ | ✓ |
| 31.75 | mm | X | 31.75 | mm | X | 3.18 | mm | X | (1 1/4") | X | (1 1/4") | X | (1/8") | 0.520 | 1.6 | ✓ | ✓ |
| 31.75 | mm | X | 31.75 | mm | X | 4.76 | mm | X | (1 1/4") | X | (1 1/4") | X | (3/16") | 0.760 | 2.3 | ✓ | ✓ |
| 31.75 | mm | X | 31.75 | mm | X | 6.35 | mm | X | (1 1/4") | X | (1 1/4") | X | (1/4") | 0.990 | 3.0 | ✓ | ✓ |
| 38.1 | mm | X | 38.1 | mm | X | 1.6 | mm | X | (1 1/2") | X | (1 1/2") | X | (1/16") | 0.330 | 0.99 | ✓ | ✓ |
| 38.1 | mm | X | 38.1 | mm | X | 3.18 | mm | X | (1 1/2") | X | (1 1/2") | X | (1/8") | 0.631 | 1.9 | ✓ | ✓ |
| 38.1 | mm | X | 38.1 | mm | X | 4.76 | mm | X | (1 1/2") | X | (1 1/2") | X | (3/16") | 0.930 | 2.8 | ✓ | ✓ |
| 38.1 | mm | X | 38.1 | mm | X | 6.35 | mm | X | (1 1/2") | X | (1 1/2") | X | (1/4") | 1.21 | 3.6 | ✓ | ✓ |
| 44.45 | mm | X | 44.45 | mm | X | 3.18 | mm | X | (1 3/4") | X | (1 3/4") | X | (1/8") | 0.744 | 2.2 | ✓ | ✓ |
| 44.45 | mm | X | 44.45 | mm | X | 4.76 | mm | X | (1 3/4") | X | (1 3/4") | X | (3/16") | 1.11 | 3.3 | ✓ | ✓ |
| 44.45 | mm | X | 44.45 | mm | X | 6.35 | mm | X | (1 3/4") | X | (1 3/4") | X | (1/4") | 1.43 | 4.3 | ✓ | ✓ |
| 50.0 | mm | X | 50.0 | mm | X | 3.0 | mm | X | | | | | | 0.79 | 2.4 | ✓ | ✓ |
| 50.8 | mm | X | 50.8 | mm | X | 1.6 | mm | X | (2") | X | (2") | X | (1/16") | 0.430 | 1.3 | ✓ | ✓ |
| 50.8 | mm | X | 50.8 | mm | X | 3.18 | mm | X | (2") | X | (2") | X | (1/8") | 0.851 | 2.6 | ✓ | ✓ |
| 50.8 | mm | X | 50.8 | mm | X | 4.76 | mm | X | (2") | X | (2") | X | (3/16") | 1.26 | 3.8 | ✓ | ✓ |
| 50.8 | mm | X | 50.8 | mm | X | 6.35 | mm | X | (2") | X | (2") | X | (1/4") | 1.65 | 5.0 | ✓ | ✓ |
| 50.8 | mm | X | 50.8 | mm | X | 9.53 | mm | X | (2") | X | (2") | X | (3/8") | 2.38 | 7.1 | ✓ | ✓ |
| 63.5 | mm | X | 63.5 | mm | X | 3.18 | mm | X | (2 1/2") | X | (2 1/2") | X | (1/8") | 1.07 | 3.2 | ✓ | ✓ |
| 63.5 | mm | X | 63.5 | mm | X | 4.76 | mm | X | (2 1/2") | X | (2 1/2") | X | (1/4") | 2.08 | 6.2 | ✓ | ✓ |
| 63.5 | mm | X | 63.5 | mm | X | 6.35 | mm | X | (2 1/2") | X | (2 1/2") | X | (5/16") | 2.60 | 7.8 | ✓ | ✓ |
| 76.2 | mm | X | 76.2 | mm | X | 3.18 | mm | X | (3") | X | (3") | X | (1/8") | 1.28 | 3.9 | ✓ | ✓ |
| 76.2 | mm | X | 76.2 | mm | X | 6.35 | mm | X | (3") | X | (3") | X | (1/4") | 2.53 | 7.6 | ✓ | ✓ |

EQUAL ANGLE continued

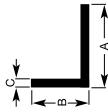
"Hard" Alloys (Heat treat) 2

| Metric A | X | | | X | | | Imperial | | | Weight (Kg) | | | "Hard" Alloys (Heat treat) | | | | |
|-------------|----|---|-------|----|---|------|----------|---|----------|-------------|---------------------|------|----------------------------|------|-------|------|---|
| | A | B | C | A | B | C | A | B | C | per m | 3m bar ¹ | 6061 | 6063 | 6082 | | | |
| 76.2 | mm | x | 76.2 | mm | x | 7.94 | mm | x | (3") | x | (3") | x | (5/16") | ✓ | 3.16 | 9.5 | ✓ |
| 76.2 | mm | x | 76.2 | mm | x | 12.7 | mm | x | (3") | x | (3") | x | (1/2") | ✓ | 5.06 | 15.2 | ✓ |
| 88.9 | mm | x | 88.9 | mm | x | 12.7 | mm | x | (3 1/2") | x | (3 1/2") | x | (1/2") | ✓ | 5.70 | 17.1 | ✓ |
| 101.6 | mm | x | 101.6 | mm | x | 6.35 | mm | x | (4") | x | (4") | x | (1/4") | ✓ | 3.47 | 10.4 | ✓ |
| 101.6 | mm | x | 101.6 | mm | x | 12.7 | mm | x | (4") | x | (4") | x | (1/2") | ✓ | 6.93 | 20.8 | ✓ |
| 127.0 | mm | x | 127.0 | mm | x | 12.7 | mm | x | (5") | x | (5") | x | (1/2") | ✓ | 8.30 | 24.9 | ✓ |
| 152.4 | mm | x | 152.4 | mm | x | 12.7 | mm | x | (6") | x | (6") | x | (1/2") | ✓ | 10.00 | 30.0 | ✓ |
| 203.2 | mm | x | 203.2 | mm | x | 12.7 | mm | x | (8") | x | (8") | x | (1/2") | ✓ | 13.69 | 41.1 | ✓ |
| 203.2 | mm | x | 203.2 | mm | x | 25.4 | mm | x | (8") | x | (8") | x | (1") | ✓ | 26.30 | 78.9 | ✓ |

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details.

2 - alloys are available in various tempers including T6 as well as others - please enquire for the temper required.

UNEQUAL ANGLE



| Metric | | Imperial | | | | Weight (Kg) | | | "Hard" Alloys (Heat treat) ² | | | | | |
|--------|----|----------|-------|----|---|-------------|----|---|---|-------|---------------------|------|------|------|
| A | X | B | X | C | A | X | B | X | C | per m | 3m bar ¹ | 6061 | 6063 | 6082 |
| 19.05 | mm | X | 12.7 | mm | X | 1.6 | mm | X | (1/16") | 0.130 | 0.39 | ✓ | ✓ | ✓ |
| 19.05 | mm | X | 12.7 | mm | X | 3.18 | mm | X | (1/8") | 0.247 | 0.74 | ✓ | ✓ | ✓ |
| 25.4 | mm | X | 12.7 | mm | X | 1.6 | mm | X | (1/16") | 0.158 | 0.47 | ✓ | ✓ | ✓ |
| 25.4 | mm | X | 12.7 | mm | X | 3.18 | mm | X | (1/8") | 0.302 | 0.91 | ✓ | ✓ | ✓ |
| 25.4 | mm | X | 15.9 | mm | X | 3.18 | mm | X | (1/8") | 0.327 | 0.98 | ✓ | ✓ | ✓ |
| 25.4 | mm | X | 19.05 | mm | X | 1.6 | mm | X | (1/16") | 0.190 | 0.57 | ✓ | ✓ | ✓ |
| 25.4 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (1/8") | 0.357 | 1.1 | ✓ | ✓ | ✓ |
| 31.75 | mm | X | 12.7 | mm | X | 3.18 | mm | X | (1/8") | 0.356 | 1.1 | ✓ | ✓ | ✓ |
| 31.75 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (1/8") | 0.411 | 1.2 | ✓ | ✓ | ✓ |
| 31.75 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1/8") | 0.466 | 1.4 | ✓ | ✓ | ✓ |
| 38.1 | mm | X | 12.7 | mm | X | 3.18 | mm | X | (1/8") | 0.411 | 1.2 | ✓ | ✓ | ✓ |
| 38.1 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (1/8") | 0.466 | 1.4 | ✓ | ✓ | ✓ |
| 38.1 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1/8") | 0.522 | 1.6 | ✓ | ✓ | ✓ |
| 38.1 | mm | X | 25.4 | mm | X | 6.35 | mm | X | (1/4") | 0.985 | 3.0 | ✓ | ✓ | ✓ |
| 44.45 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (1/8") | 0.522 | 1.6 | ✓ | ✓ | ✓ |
| 44.45 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1/8") | 0.574 | 1.7 | ✓ | ✓ | ✓ |
| 50.0 | mm | X | 25.0 | mm | X | 3.0 | mm | X | (1/8") | 0.590 | 1.8 | ✓ | ✓ | ✓ |
| 50.8 | mm | X | 12.7 | mm | X | 3.18 | mm | X | (1/8") | 0.522 | 1.6 | ✓ | ✓ | ✓ |
| 50.8 | mm | X | 19.05 | mm | X | 3.18 | mm | X | (1/8") | 0.576 | 1.7 | ✓ | ✓ | ✓ |
| 50.8 | mm | X | 22.25 | mm | X | 3.18 | mm | X | (1/8") | 0.599 | 1.8 | ✓ | ✓ | ✓ |
| 50.8 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1/8") | 0.631 | 1.9 | ✓ | ✓ | ✓ |
| 50.8 | mm | X | 25.4 | mm | X | 4.76 | mm | X | (3/16") | 0.925 | 2.8 | ✓ | ✓ | ✓ |
| 50.8 | mm | X | 25.4 | mm | X | 6.35 | mm | X | (1/4") | 1.21 | 3.6 | ✓ | ✓ | ✓ |
| 50.8 | mm | X | 38.1 | mm | X | 3.18 | mm | X | (1/8") | 0.741 | 2.2 | ✓ | ✓ | ✓ |
| 50.8 | mm | X | 38.1 | mm | X | 6.35 | mm | X | (1/4") | 1.10 | 3.3 | ✓ | ✓ | ✓ |
| 63.5 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1/8") | 0.741 | 2.2 | ✓ | ✓ | ✓ |
| 63.5 | mm | X | 38.1 | mm | X | 3.18 | mm | X | (1/8") | 0.851 | 2.6 | ✓ | ✓ | ✓ |
| 63.5 | mm | X | 38.1 | mm | X | 4.76 | mm | X | (3/16") | 1.28 | 3.8 | ✓ | ✓ | ✓ |
| 63.5 | mm | X | 38.1 | mm | X | 6.35 | mm | X | (1/4") | 1.65 | 5.0 | ✓ | ✓ | ✓ |
| 63.5 | mm | X | 50.8 | mm | X | 6.35 | mm | X | (1/4") | 1.87 | 5.6 | ✓ | ✓ | ✓ |
| 76.2 | mm | X | 25.4 | mm | X | 3.18 | mm | X | (1/8") | 0.856 | 2.6 | ✓ | ✓ | ✓ |
| 76.2 | mm | X | 38.1 | mm | X | 3.18 | mm | X | (1/8") | 0.958 | 2.9 | ✓ | ✓ | ✓ |
| 76.2 | mm | X | 38.1 | mm | X | 6.35 | mm | X | (1/4") | 1.860 | 5.6 | ✓ | ✓ | ✓ |

UNEQUAL ANGLE continued

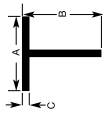
|||Hard™ Alloys (Heat treat)²

| Metric A | X | | | X | | | Imperial | | | Weight (Kg) | | | 6061 | | | 6063 | | | 6082 | | | |
|-------------|----|----|-------|----|----|-------|----------|---|------|-------------|---------|-------|---------------------|------|------|------|------|------|------|------|------|------|
| | mm | mm | mm | mm | mm | mm | A | X | B | X | C | per m | 3m bar ¹ | 6061 | 6063 | 6082 | 6061 | 6063 | 6082 | 6061 | 6063 | 6082 |
| 76.2 | mm | x | 50.8 | mm | x | 3.18 | mm | x | (3") | x | (1/8") | 1.07 | 3.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 76.2 | mm | x | 50.8 | mm | x | 4.76 | mm | x | (3") | x | (3/16") | 1.59 | 4.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 76.2 | mm | x | 50.8 | mm | x | 6.35 | mm | x | (3") | x | (1/4") | 2.08 | 6.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 101.6 | mm | x | 25.4 | mm | x | 3.18 | mm | x | (4") | x | (1/8") | 1.07 | 3.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 101.6 | mm | x | 50.8 | mm | x | 3.18 | mm | x | (4") | x | (1/8") | 1.28 | 3.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 101.6 | mm | x | 50.8 | mm | x | 6.35 | mm | x | (4") | x | (1/4") | 2.51 | 7.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 101.6 | mm | x | 76.2 | mm | x | 6.35 | mm | x | (4") | x | (3") | 2.96 | 8.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 101.6 | mm | x | 76.2 | mm | x | 12.7 | mm | x | (4") | x | (1/2") | 5.70 | 17.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 127.0 | mm | x | 76.2 | mm | x | 12.7 | mm | x | (5") | x | (1/2") | 6.55 | 19.6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 152.4 | mm | x | 76.2 | mm | x | 9.53 | mm | x | (6") | x | (3/8") | 5.74 | 17.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 152.4 | mm | x | 101.6 | mm | x | 12.7 | mm | x | (6") | x | (1/2") | 8.30 | 24.9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 203.2 | mm | x | 152.4 | mm | x | 19.05 | mm | x | (8") | x | (3/4") | 17.38 | 52.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

2 - alloys are available in various tempers including T6 as well as others - please enquire for the temper required

TEES



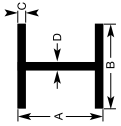
"Hard" Alloys (Heat treat) 2

| Metric A | X B | | | X C | | | Imperial | | | | Weight (Kg) | | 6061 | 6063 | 6082 | |
|-------------|-----|---|-------|-----|---|------|----------|----------|---|----------|-------------|---------------------|-------|------|------|---|
| | X | B | X | X | C | A | X | B | X | C | per m | 3m bar ¹ | | | | |
| 19.05 | mm | x | 19.05 | mm | x | 1.6 | mm | (3/4") | x | (3/4") | x | (1/16") | 0.160 | 0.48 | ✓ | |
| 19.05 | mm | x | 19.05 | mm | x | 3.18 | mm | (3/4") | x | (3/4") | x | (1/8") | 0.302 | 0.91 | ✓ | ✓ |
| 22.23 | mm | x | 22.23 | mm | x | 3.18 | mm | (7/8") | x | (7/8") | x | (1/8") | 0.360 | 1.08 | ✓ | |
| 25.4 | mm | x | 19.05 | mm | x | 3.18 | mm | (1") | x | (3/4") | x | (1/8") | 0.356 | 1.07 | ✓ | |
| 25.4 | mm | x | 25.4 | mm | x | 1.6 | mm | (1") | x | (1") | x | (1/16") | 0.213 | 0.64 | ✓ | |
| 25.4 | mm | x | 25.4 | mm | x | 3.18 | mm | (1") | x | (1") | x | (1/8") | 0.411 | 1.23 | ✓ | ✓ |
| 25.4 | mm | x | 50.8 | mm | x | 3.18 | mm | (1") | x | (2") | x | (1/8") | 0.631 | 1.89 | ✓ | |
| 31.75 | mm | x | 31.75 | mm | x | 3.18 | mm | (1 1/4") | x | (1 1/2") | x | (1/8") | 0.520 | 1.56 | ✓ | ✓ |
| 31.75 | mm | x | 31.75 | mm | x | 4.76 | mm | (1 1/4") | x | (1 1/4") | x | (3/16") | 0.760 | 2.28 | ✓ | |
| 38.1 | mm | x | 38.1 | mm | x | 3.18 | mm | (1 1/2") | x | (1 1/2") | x | (1/8") | 0.631 | 1.89 | ✓ | ✓ |
| 38.1 | mm | x | 38.1 | mm | x | 6.35 | mm | (1 1/2") | x | (1 1/2") | x | (1/4") | 1.20 | 3.60 | ✓ | ✓ |
| 50.8 | mm | x | 25.4 | mm | x | 3.18 | mm | (2") | x | (1") | x | (1/8") | 0.631 | 1.89 | ✓ | |
| 50.8 | mm | x | 50.8 | mm | x | 3.18 | mm | (2") | x | (2") | x | (1/8") | 0.851 | 2.55 | ✓ | ✓ |
| 50.8 | mm | x | 50.8 | mm | x | 4.76 | mm | (2") | x | (2") | x | (3/16") | 1.27 | 3.82 | ✓ | ✓ |
| 50.8 | mm | x | 50.8 | mm | x | 6.35 | mm | (2") | x | (2") | x | (1/4") | 1.65 | 4.96 | ✓ | ✓ |
| 76.2 | mm | x | 76.2 | mm | x | 6.35 | mm | (3") | x | (3") | x | (1/4") | 2.57 | 7.71 | ✓ | ✓ |
| 101.6 | mm | x | 101.6 | mm | x | 6.35 | mm | (4") | x | (4") | x | (1/4") | 3.49 | 10.5 | ✓ | ✓ |

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

2 - alloys are available in various tempers including T6 as well as others - please enquire for the temper required

I BEAMS



"Hard" Alloys (Heat treat) 2

| Metric A | Imperial | | | | Weight (kg) per m | Weight (kg) 3m bar ¹ | "Hard" Alloys (Heat treat) 2 | | | | |
|-------------|----------|----------|---|----------|----------------------|------------------------------------|------------------------------|---------|---|------|------|
| | A | X | B | X | | | C | X | D | 6061 | 6063 |
| 10.0 mm | x | 20.0 mm | x | 1.5 mm | x | 1.5 mm | x | 1.5 mm | ✓ | ✓ | ✓ |
| 12.7 mm | x | 19.84 mm | x | 1.6 mm | x | 1.6 mm | x | 1.6 mm | ✓ | ✓ | ✓ |
| 15.88 mm | x | 25.4 mm | x | 3.18 mm | x | 3.18 mm | x | 3.18 mm | ✓ | ✓ | ✓ |
| 19.05 mm | x | 15.88 mm | x | 1.6 mm | x | 1.6 mm | x | 1.6 mm | ✓ | ✓ | ✓ |
| 25.0 mm | x | 32.0 mm | x | 2.5 mm | x | 2.5 mm | x | 2.5 mm | ✓ | ✓ | ✓ |
| 38.1 mm | x | 25.4 mm | x | 2.64 mm | x | 2.64 mm | x | 1.5 mm | ✓ | ✓ | ✓ |
| 31.75 mm | x | 44.45 mm | x | 3.18 mm | x | 3.18 mm | x | 3.18 mm | ✓ | ✓ | ✓ |
| 101.6 mm | x | 76.2 mm | x | 7.94 mm | x | 6.35 mm | x | 6.35 mm | ✓ | ✓ | ✓ |
| 152.4 mm | x | 76.2 mm | x | 9.53 mm | x | 6.35 mm | x | 6.35 mm | ✓ | ✓ | ✓ |
| 254.0 mm | x | 152.4 mm | x | 12.7 mm | x | 7.94 mm | x | 7.94 mm | ✓ | ✓ | ✓ |
| 304.8 mm | x | 177.8 mm | x | 15.88 mm | x | 7.94 mm | x | 7.94 mm | ✓ | ✓ | ✓ |

1 - weight per bar based on 6082 alloy, please note other alloys may vary - refer to the "Weight Conversion" table on Page 98 for more details

2 - alloys are available in various tempers including T6 as well as others - please enquire for the temper required



metalweb reference

INTERNATIONAL DESIGNATIONS AND NATIONAL EQUIVALENTS

| International Alloy American A.A. | U.K Former B.S. | ISO | AECMA | Germany DIN | Germany Werkstoff | France AFNOR | Italy Old UNI | Italy New UNI | Sweden | Switzerland |
|-----------------------------------|--------------------|----------------------|------------------|------------------|-------------------|-----------------------|---|---------------|------------------------|----------------------|
| 1050 | 1B — | Al99.5 — | Al99.5 — | Al99.5 — | 3.0255 — | A5 — | PAI99.5 4507 | 9001/2 | 14-4007 — | Al99.5 — |
| 1080 | 1A — | Al99.8 — | — — | Al99.8 — | 3.128 — | A8 — | P-Al99.8 4509 | 9001/4 | 14-4004 — | — — |
| 1200 | 1C — | Al99.0 — | — — | Al99 — | 3.0205 — | A4 — | P-ALP99.0 3567-66 | 9001/1 | 14-4010 — | Al99.0 — |
| 1350 | 1E | Al99.5 | — | EAl99.5 | 3.0257 | A5/L | — | 9001/5 | E-Al99.5 | — |
| 2011 | FC1 — | AlCu6BiFb — | — — | AlCuBiPb — | 3.1655 — | A-U5.5PbBi — | PAICu5.5PbBi 6362 | 9002/5 | 14-4355 — | AlCu6BiPPb — |
| 2014A | H15 — | AlCu4SiMg — | Al-P12 — | AlCuSiMn — | 3.1255 — | A-U4SG — | P-AlCu4.4MnMg 3501 | 9002/3 | 14-4338 — | AlCu4SiMn — |
| 2024 | — — | AlCu4Mg1 — | Al-P13 — | AlCuMg2 — | 3.1355 — | A-U4G1 — | P-AlCu4.4MgMn 3583 | 9002/4 | — — | AlCu4Mg1.5 — |
| 2618A | H16 | — | — | — | — | A-U2GN | — | 9002/6 | — | — |
| 3003 | — | AlMn1Cu | — | AlMnCu | — | A-M1 | — | 9003/1 | — | AlMn |
| 3103 | N3 — | — — | — — | AlMn — | — — | — — | P-AlMn1.2 3568 | 9003/3 | 14-4054 — | AlMn — |
| 5005 | N41 — — — | AlMg1 — — — | — — — — | — — — — | — — — — | A-G0-6 — — — | P-AlMg0.8 5674-66 P-AlMg0.9 4510 | 9005/1 | 14-4106 — — — | AlMg1 — — — |
| 5052 | — | — | — | AlMg2.5 | — | A-G2.5C | — | 9005/2 | — | — |
| 5056 | N6 — | AlMg5 — | Al-P32 — | AlMg5 — | 3.3555 — | A-G5 — | P-AlG5 3576 | — — | — — | — — |
| 5083 | N8 — | AlMg4.5Mn — | — — | AlMg4.5Mn — | 3.3547 — | A-G4.5MC — | P-AlMg4.4 7789 | 9005/5 | 14-4140 7790 | AlMg5 — |
| 5086 | — | — | — | AlMg4Mn | — | A-G4Mn | — | 9005/4 | — | AlMg4 |
| 5154 | N5 — | AlMg3.5 — | — — | AlMg3.5 — | 3.3535 — | A-G3 — | P-AG3.5 3575 | — — | — — | AlMg2.7Mn — |
| 5251 | N4 — | AlMg2 — | Al-P31 — | AlMg2Mo.3 — | 3.3525 — | A-G2M — | P-AlMg2.5 3574 | — — | — — | AlMg2 — |
| 5454 | N51 | AlMg3Mn | — | AlMg2.7Mn | 3.3537 | A-G52MC | 7789 | 9005/3 | — | AlMg2.7Mn |
| 5754 | — | — | — | AlMg3 | — | A-G3M | — | — | — | — |
| 6061 | H20 — | AlMg1SiCu — | — — | — — | — — | A-GSUC — | P-AC1SC 6170 | 9006/2 | — — | — — |
| 6063 | H9 — | AlMg0.5Si — | — — | AlMgSi0.5 — | 3.3206 — | A-GS — | P-AlSi0.4Mg 3569 | — — | 14-4104 — | AlMgSi0.5 — |
| 6082 | H30 — | AlSi/MgMn — | Al-P21 — | AlMgSi1 — | 3.2315 — | A-SGM0.7 — | P-AlSi/MgMn 3571 | 9006/4 | 14-4212 — | AlMgSiMn — |
| 6101 | 91E | AlMgSi | — | EAlMgSi0.5 | 3.3207 | — | P-AlSi0.5Mg | — | — | AlMgSi0.5 |
| 7020 | H17 | — | — | AlZnMg1 | 3.4335 | AZ5G | 7791 | 9007/1 | 14-4425 | AlZn4.5Mg1 |
| 7075 | — — | AlZn6MgCu — | Al-P42 — | ALZnMgCu1.5 — | 3.4365 — | A/Z5Gu — | P-AlZn5.8MgCu 3735 | 9007/2 | — — | AlZn6MgCu1.5 — |

CONVERSION TABLE

| Inches | | | | Inches | | | | Inches | | | |
|--------|-------|--------|-----|--------|-------|--------|-----|--------|-------|--------|-----|
| mm | DECIM | FRACT. | swg | mm | DECIM | FRACT. | swg | mm | DECIM | FRACT. | swg |
| .25 | .0098 | — | — | 2.03 | .80 | — | 14 | 9.0 | .354 | — | — |
| .254 | .01 | — | 33 | 2.34 | .092 | — | 13 | 9.45 | .372 | — | 3/0 |
| .30 | .0118 | — | — | 2.38 | .093 | 3/32 | — | 9.52 | .375 | 3/8 | — |
| .315 | .0124 | — | 30 | 2.5 | .98 | — | — | 10.0 | .394 | — | — |
| .345 | .0136 | — | 29 | 2.64 | .104 | — | 12 | 10.16 | .40 | — | 4/0 |
| .376 | .0148 | — | 28 | 2.78 | .109 | 7/64 | — | 10.32 | .406 | 13/32 | — |
| .397 | .0156 | 1/64 | — | 2.95 | .116 | — | 11 | 10.97 | .432 | — | 5/0 |
| .40 | .0157 | — | — | 3.0 | .118 | — | — | 11.11 | .437 | 7/16 | — |
| .417 | .0164 | — | 27 | 3.18 | .125 | 1/8 | — | 11.78 | .464 | — | 6/0 |
| .457 | .018 | — | 26 | 3.25 | .128 | — | 10 | 11.91 | .469 | 15/32 | — |
| .50 | .0197 | — | — | 3.66 | .144 | — | 9 | 12.0 | .472 | — | — |
| .508 | .02 | — | 25 | 3.97 | .156 | 5/32 | — | 12.7 | .50 | 1/2 | 7/0 |
| .559 | .022 | — | 24 | 4.0 | .157 | — | — | 13.49 | .531 | 17/32 | — |
| .60 | .023 | — | — | 4.06 | .16 | — | 8 | 14.0 | .551 | — | — |
| .61 | .024 | — | 23 | 4.47 | .175 | — | 7 | 14.29 | .562 | 9/16 | — |
| .70 | .027 | — | — | 4.76 | .187 | 3/16 | — | 15.08 | .594 | 19/32 | — |
| .711 | .028 | — | 22 | 4.88 | .192 | — | 6 | 15.87 | .625 | 5/8 | — |
| .794 | .031 | 1/32 | — | 5.0 | .197 | — | — | 16.0 | .63 | — | — |
| .80 | .031 | — | — | 5.38 | .212 | — | 5 | 16.67 | .656 | 21/32 | — |
| .813 | .032 | — | 21 | 5.56 | .219 | 7/32 | — | 17.46 | .687 | 11/16 | — |
| .90 | .035 | — | — | 5.89 | .232 | — | 4 | 18.26 | .719 | 23/32 | — |
| .914 | .036 | — | 20 | 6.0 | .236 | — | — | 19.05 | .75 | 3/4 | — |
| 1.0 | .039 | — | — | 6.35 | .25 | 1/4 | — | 19.84 | .781 | 25/32 | — |
| 1.02 | .04 | — | 19 | 6.4 | .252 | — | 3 | 20.0 | .787 | — | — |
| 1.2 | .047 | 3/64 | — | 7.0 | .276 | — | 2 | 20.64 | .812 | 13/16 | — |
| 1.22 | .048 | — | 18 | 7.14 | .281 | 9/32 | — | 21.43 | .843 | 27/32 | — |
| 1.42 | .056 | — | 17 | 7.62 | .30 | — | 1 | 22.22 | .875 | 7/8 | — |
| 1.59 | .062 | 1/16 | — | 7.94 | .312 | 5/16 | — | 23.02 | .906 | 29/32 | — |
| 1.6 | .063 | — | — | 8.0 | .315 | — | — | 23.81 | .937 | 15/16 | — |
| 1.63 | .064 | — | 16 | 8.23 | .324 | — | 0 | 24.6 | .969 | 31/32 | — |
| 1.83 | .072 | — | 15 | 8.73 | .344 | 11/32 | — | 25.0 | .984 | — | — |
| 1.98 | .078 | 3/64 | — | 8.84 | .348 | — | 2/0 | 25.4 | 1.0 | 1 | — |
| 2.0 | .079 | — | — | — | — | — | — | — | — | — | — |

WEIGHT CONVERSION

| | | | | | | | |
|------------|-------|-------|-------|------|-------|------|-------|
| 1050A | 1.0 | 2024 | 1.026 | 5086 | 0.985 | 6082 | 1.0 |
| 1080A | 1.0 | 3003 | 1.01 | 5154 | 0.989 | 6101 | 1.0 |
| 1200 | 1.0 | 3103 | 1.01 | 5251 | 0.99 | 7022 | 1.018 |
| 1350 | 1.0 | 5005 | 0.99 | 5454 | 0.99 | 7022 | 1.018 |
| 2011 | 1.04 | 5052 | 0.99 | 5754 | 0.99 | 7075 | 1.037 |
| 2014A | 1.037 | 5056A | 0.97 | 6061 | 1.0 | | |
| 2014A Clad | 1.037 | 5083 | 0.988 | 6063 | 1.0 | | |

To convert the weight of any stock item to an alternative alloy, multiply the weight by the relevant conversion factor shown.

CONVERSION FACTORS

| | | | | | |
|------------------------------|--|--|--|--|---|
| Length | 1 mm 1 cm 1 m | = 10^{-7} A =39.37 mil =0.03937 in. =0.3937 in. =39.37 in. =3.2808 ft. =1.0936 yd. | 1 A 1 mil (0.0001 in.) 1 in. (") 1 ft. (12 in.) 1 yd. (3ft=36in.) | = 10^{-7} mm =0.0254 =25.399 mm =2.5399 cm =0.0254 m =0.3048 m =304.799 mm =0.9114 m | |
| Area | 1 mm ² 1 cm ² 1 m ² | =1973.5 cm =0.00155 sq. in. =0.155 sq. in. =10.764 sq. ft. =1.196 sq. yd. | 1 cm (sq. mil ^{1/4}) 1 sq. in. (in. ²) 1 sq.ft.(144sq. in.) 1 sq.yd. (9 sq. ft.) | =0.000645 mm ² =645.15 mm ² =6.4516 cm ² =0.093 m ² =0.8361 m ² | |
| Volume | 1 cm ³ 1 dm ³ (1 litre) 1 m ³ | =0.061 cu.in. (in. ³) =61.022 cu.in. =0.353 cu.ft. =35.315 cu.ft (ft ³) =1.308 cu.yd. (yd. ³) | 1 cu.in.(in. ³) 1 cu. in. 1 cu. ft. (ft. ³) 1cu.yd. (yd. ³)(27cu.ft.) | =16.387 cm ³ =0.01639 dm ³ =28.3167 =0.765m ³ | |
| Weight | 1 g 1 kg 1 lb 1 kg/m 1 g/cm ³ | =0.0353 oz. =2.2046 lb. =1.1023 sh.t. =9.842 long t. (UK) =0.672 lb./ft. =2.016 lb.yd. =0.03613 lb./cu.in. | 1 oz. (1/16 lb.) 1 lb. 1 sh.t. (112lb.) 1 long ton (UK) (1.12 sh.t.) 1 lb./ft. 1 lb./yd. 1 lb./cu.in. | =28.3495 g =0.4536 kg =907.185 kg =1016.05 kg =1.016 t. =1.488 kg/m =0.496 kg/m =27.68 g/cm ³ | |
| Force | 1 N 1 lbf 1 tonf. | =0.102kg =4.4N =9.99 103N | 1 kg 1 N | =9.807 N =0.224 lbf =1.004 10 ⁻⁴ tonf | |
| Energy, heat | 1 kcal 1 j 1 kJ | =3.9683 BTU =9.5 10 ⁻⁴ BTU =9.807 J | 1 BTU 1 J | = 0.252 kcal =1.1 10 ³ J =0.102 kJ | |
| Pressure, stress | 1 atm 1 kg/mm ² 1 hbar 1 psi 1 ksi 1 tong./sq.in. 1 lbf./sq.in. | =1.013 10 ⁵ Pa =1.013 bar =9,807 N/mm ² =10 N/mm =68.9 10 ⁻⁴ N/mm ² =6.89 N/mm ² =15.45N/mm ² =0.689N/mm ² | 1 Pa 1 bar 1 N/mm ² 1 N/cm ² | =0.987 10 ⁻⁵ atm =1.02 10 ⁻⁵ at =0.9869 atm =1.0 10 ⁵ Pa =1.02 at =0.102 kg/mm ² =0.1 hbar =0.0145 10 ⁴ psi =0.145 ksi =0.065 tonf./sq.in. =1.45 lbf./sq.in | |
| Temperature | 0 K 1°F | =-273,15°C =9/5°C + 32 | 0°C 1°C | =273,15K =5/9°F -32 | |
| Thermal expansion | 1 °C | =0.556 1 °F | 1 °F | =1.8 1 °C | |
| Physical properties | Thermal conductivity | 1 kcal h °C | =1,163 W/m K =0.08 BTU_in ft ² F.h | 1 W/m K =1 BTU_in. ft ² F.h =1 BTU in.h°F | =0,8598 kcal/m.h.°C =0.124 kcal/m.h.°C =17.87 kcal/m.h.°C |
| Electrical conductivity | 1 m/Ohm.mm ² | =10 ⁶ S/m | 1 S/m | = 10 ⁻⁶ m/Ohm.mm ² | |
| Spec. electrical resistivity | 1 Ohm.mm ² /m | =10 ⁻⁴ Ohm.cm | 1 Ohm.cm | =10 ⁴ Ohm.mm ² /m | |
| Impact strength | 1 mkp/cm ³ | =9,807 Nm/cm ² | 1 Nm/cm ² | =0,102 mkp/cm ² | |

FORMULAE AND CALCULATIONS

Weight Calculations

Plate, Sheet and Strip

Weight per square metre, in kilogrammes: $2.71 t$ where t = thickness in mm

Weight per square foot, in pounds: $14.1 t$ where t = thickness in inches

Round Bar and Wire

Weight per metre, in kilogrammes:
 $2.13 \times 10^{-3}d^2$, where d = diameter in mm

Weight per foot, in pounds: $0.923d^2$ where d = diameter in inches

Hexagonal Bars

Weight per metre, in kilogrammes:
 $2.35 \times 10^{-3}w^2$, where w = width across flats in mm

Weight per foot, in pounds: $1.02w^2$, where w = width across flats in inches

Sections

Weight per metre, in kilogrammes:
 $2.71 \times 10^{-3}A$, where A = cross sectional area in mm^2

Weight per foot, in pounds: $1.18A$, where A = cross sectional area in mm^2

Tubes

Weight per metre, in kilogrammes:
 $8.51 \times 10^{-3}t(d-t)$, where d = outside diameter in mm and t = wall thickness in mm

Weight per foot, in pounds: $3.69t(d-t)$, where d = outside diameter in inches and t = wall thickness in inches

Circles

Weight per circle, in kilogrammes:
 $2.13 \times 10^{-6}d^2t$ = diameter in mm and t = thickness in mm

Weight per circle, in pounds:
 $0.77d^2t$ where d = diameter in inches and t = thickness in inches

Mensuration Formula

$$\pi = 3.1416 \quad \pi^2 = 9.8696$$

$$\frac{1}{\pi} = 0.3183 \quad \sqrt{\pi} = 1.7725$$

Circle

Area = π x radius squared

Circumference = π x diameter

Area of segment = area of sector minus area of triangle

Area of sector = length of arc x $\frac{1}{2}$ radius

Length of arc = degrees in arc x radius x 0.01745

Triangle

Area = $\frac{1}{2}$ base x perpendicular height

Square Rhombus Rhomboid

Area = base x height

Ellipse

Area = long axis x short axis x 0.7854

Trapezium

Area = height x ($\frac{1}{2}$ the sum of two parallel sides)

Cone

Surface = $\frac{1}{2}$ (slant height x perimeter of base) + area of base

Volume = (area of base x perpendicular height) divided by 3

Cylinder

Surface = (length x perimeter) + (area of two ends)

Volume = area of base x height

Sphere

Surface = square of diameter x π

Volume = cube of diameter x 0.5236

Pyramid

Surface = $\frac{1}{2}$ (slant height x base perimeter) + area of base

Volume = (area of base x perpendicular height) divided by 3

Prism

Surface = (length x perimeter) + (area of two ends)

Volume = area of base x height



NOTES

Whilst every effort has been made to ensure that the information contained in this handbook is correct, neither metalweb nor any of its staff shall be liable for errors or omissions however caused.

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