

Mild Steel Structural Sections

Universal Beams (UB)

(Metric)



Depth	Width	Kilograms per metre
127	76	13
152	89	16
178	102	19
203	102	23
203	133	25 - 30
254	102	22 - 25 - 28

Universal Columns (UC)

(Metric)



Depth	Width	Kilograms per metre
152	152	23 - 30 - 37
203	203	46 - 52 - 60 - 71
254	254	73 - 89

Parallel Flange Channels (PFC)

(Metric)



Depth	Width	Kilograms per metre
100	50	10.2
125	65	15
150	75	18
150	90	24
180	75	19.7
180	90	26
200	75	23
200	90	30
230	75	26
230	90	35

Tapered Flange Channels (RSC)

(Metric)



Depth	Width	Kilograms per metre
50	25	3.86
50	38	5.59
76	38	6.7

This is a selection of what we can supply, other sizes can be specially ordered. Structural beams can be supplied either self-colour or primed. Please ask for details.

Stainless Steel

Round Bars

(Imperial)



Diameter (a)
1/8
3/16
1/4
5/16
1/2
5/8
3/4
1

Stainless steel round bars are available in up to 3 metre lengths.

Round Tubes

(Imperial)



Diameter (a)
3/4
1
1 1/2
2

Stainless Steel round tubes are 1/16" thickness (b) and available in up to 6 metre lengths.

Other sizes and sections can be specially ordered. Please ask for details.



Mackays of Cambridge are a BOC partner. We supply gasses and top of the range BOC gas equipment and welding accessories. Please ask for details.

We supply the following gases

Oxygen	Nitrogen
Mig - Tig Shielding Gases	Dissolved Acetylene
Carbon Dioxide	Compressed Air
Hydrogen	Balloon Gas

Gates and Railings



We supply wrought iron gates and railings, as standard sizes and also made to measure. Please ask for details.



Pipe Clamp

We stock a wide range of galvanised pipe clamp, also pipe to fit in mild steel and galvanised. Please see pipe clamp leaflet for full range or ask for details.



Construction Angle

Three sizes of construction angle available, painted or galvanised 1 1/2 x 1 1/2, 1 1/2 x 2 1/4, 1 1/2 x 3.



Gauge Conversion Table

SWG	10	12	14	16	18	20	22	24
Imperial (")	0.12	0.1	0.08	0.06	0.05	0.04	0.03	0.02
Metric (mm)	3	2.5	2	1.5	1.2	1	0.8	0.6

(All sizes approximate)

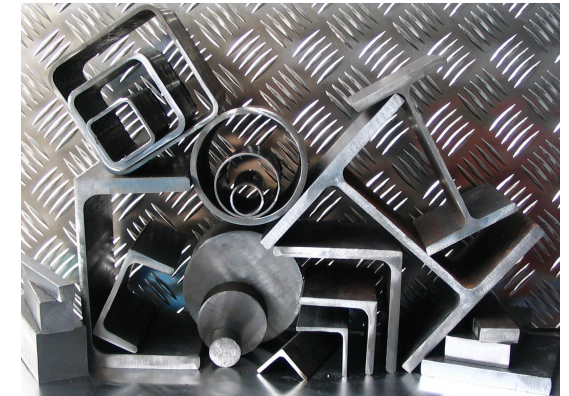
To Convert:

Millimetres to Inches - multiply by 0.03937
Inches to Millimetres - multiply by 25.4



Metals Warehouse

This is a selection of what we can supply; please note that not all products are ex stock. Non-stock items are available to order. Please contact us.



We cut to size, no size too small

Light Engineering Services

Our *Light Engineering* services include: flame cutting, welding, drilling, shearing, punching, tapping/dieing, sheet folding and a comprehensive fabrication service.

Finishing services available include: shot blasting, hot zinc spraying, hot dip galvanising, zinc rich priming, hand painting, polyester powder coating, anodising and polishing.



Mackays of Cambridge Ltd
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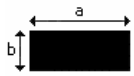
Email: metals@mackay.co.uk
Internet: www.mackay.co.uk

Open Monday-Friday 8am to 5.15pm (Last cutting 5pm)
Saturdays 9am to 1pm

Delivery service available - Please phone for details

Aluminium

Flat Bar (Imperial)



Equal Angle (Imperial)



Width (a)	Depth (b)
1/2	1/8 - 3/16 - 1/4
3/4	1/8 - 3/16 - 1/4
1	1/8 - 3/16 - 1/4
1 1/4	1/8 - 3/16 - 1/4 - 1/2
1 1/2	1/8 - 3/16 - 1/4 - 1/2
2	1/8 - 3/16 - 1/4 - 1/2
2 1/2	1/8 - 3/16 - 1/4 - 1/2
3	1/8 - 3/16 - 1/4 - 1/2

Width (axa)	Thickness (b)
1/2 x 1/2	1/16 - 1/8
5/8 x 5/8	1/16 - 1/8
3/4 x 3/4	1/16 - 1/8
1 x 1	1/16 - 1/8 - 3/16
1 1/4 x 1 1/4	1/16 - 1/8 - 3/16
1 1/2 x 1 1/2	1/16 - 1/8 - 3/16
2 x 2	1/8 - 3/16 - 1/4
2 1/2 x 2 1/2	1/8 - 3/16

Square Bar (Imperial)



Depth x Width (axa)
1/4 x 1/4
3/8 x 3/8
1/2 x 1/2
5/8 x 5/8
3/4 x 3/4
1 x 1
1 1/4 x 1 1/4
1 1/2 x 1 1/2
2 x 2

Square Tube (Imperial)



Depth x Width (axa)	Thickness (b)
3/4 x 3/4	1/16
1 x 1	1/16 - 1/8
1 1/4 x 1 1/4	1/16 - 1/8
1 1/2 x 1 1/2	1/16 - 1/8
2 x 2	1/16 - 1/8

Round Bar (Imperial)



Diameter (a)
1/8
3/16
1/4
5/16
3/8
1/2
5/8
3/4
1
1 1/4
1 1/2
1 3/4
2
2 1/4
2 1/2
3

Round Tube (Imperial)



Diameter (a)	Thickness (b)
1/4	1/16
5/16	1/16
3/8	1/16
1/2	1/16
5/8	1/16
3/4	1/16
7/8	1/16
1	1/16 - 1/8
1 1/4	1/16 - 1/8
1 1/2	1/16 - 1/8
1 3/4	1/16
2	1/16 - 1/8
2 1/4	1/16 - 1/8
2 1/2	1/16
3	1/16

Channel (Imperial)



Depth x Width (a)	Thickness (b)
3/8 x 3/8	1/16
1/2 x 1/2	1/16 - 1/8
5/8 x 5/8	1/16
3/4 x 3/4	1/16 - 1/8
1 x 1	1/8
1 1/4 x 1 1/4	1/8
1 1/2 x 1 1/2	1/8
2 x 2	1/8

Other Aluminium Sections Available!

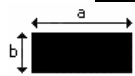
- 5 bar Treadplate
 - Triple grip
 - Unequal angles
 - Tee sections
 - Half rounds
 - Hexagon bars
 - Zed sections
 - Mouldings
- and many more.**

All Aluminium sections are available in up to 4 metre lengths.

Please ask for details.

Black Mild Steel

Flat Bar (Metric)



Width (a)	Depth (b)
13	3
20	3 - 5 - 6 - 8 - 10 - 12
25	3 - 5 - 6 - 8 - 10 - 12
30	3 - 5 - 6 - 8 - 10 - 12
40	3 - 5 - 6 - 8 - 10 - 12
50	3 - 5 - 6 - 8 - 10 - 12
60	6 - 8 - 10 - 12
75	6 - 8 - 10 - 12
100	6 - 8 - 10 - 12
150	6 - 8 - 10 - 12

Equal Angle (Metric)



Depth x Width (axa)	Thickness (b)
20 x 20	3
25 x 25	3 - 5 - 6
30 x 30	3 - 5 - 6
40 x 40	3 - 5 - 6
50 x 50	3 - 5 - 6 - 8
60 x 60	6 - 8 - 10
75 x 75	6 - 8 - 10
90 x 90	8 - 10
100 x 100	8 - 10
120 x 120	8 - 10

Round Bar (Metric)



Diameter (a)
6
8
10
12
16
20

Square Bar (Metric)



Width (a)
10
12
16
20
25
50

Black mild steel sections are available in up to 6 metre lengths. This is a selection of what we can supply; other sizes and sections can be specially ordered. Please ask for details.

Mild Steel

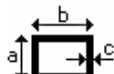
Round Tube ERW (Imperial)



Diameter (a)	3/8	1/2	5/8	3/4	7/8	1
Diameter (a)	1 1/4	1 1/2	2	2 1/2	3	4

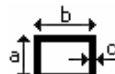
All sizes are 1/16" thickness (b), except 4" which is available in 1/16" and 1/8".

Square/ Rectangular Tube ERW (Imperial)



Depth x Width (axb)	Thickness (c)
1/2 x 1/2	1/16
5/8 x 5/8	1/16
3/4 x 3/4	1/16
1 x 1	1/16
1 1/4 x 1 1/4	1/16
1 1/2 x 1 1/2	1/16
2 x 2	1/16
1 x 1/2	1/16
1 1/2 x 3/4	1/16
1 1/2 x 1	1/16
2 x 1	1/16

Square/ Rectangular Tube RHS (Metric)



Depth x Width (axb)	Thickness (c)
20 x 20	2
25 x 25	3
30 x 30	3
40 x 40	3
50 x 50	3
60 x 60	3
70 x 70	3
75 x 75	3
100 x 100	4
50 x 25	3
60 x 40	3
75 x 50	3
100 x 50	3

Mild steel sections are available in up to 6 metre lengths. This is a selection of what we can supply; other sizes and sections can be specially ordered. Please ask for details.

Bright Mild Steel

Round Bar (Imperial)



Diameter (a)	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4
Diameter (a)	7/8	1	1 1/4	1 1/2	2	2 1/2	3	4

The bright mild steel rounds are available in up to 3 metre lengths. This is a selection of what we can supply; other sizes and sections can be specially ordered. Please ask for details.

Metal Plate

The following thicknesses are available in aluminium and black mild steel.

Thickness (mm)	3	4	5	6
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Available in 2.5 x 1.25 metre sheets or cut to size.

This is a selection of what we can supply; other sizes and sections can be specially ordered. Please ask for details.

Sheet Metal

Available in:

- Aluminium
- Galvanised steel
- Bright mild steel
- Copper
- Stainless steel
- Brass

Thickness (mm)	0.6	0.8	1	1.2	1.5	2	2.5
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All materials available in 2 x 1 and 2.5 x 1.25 metre sheets or cut to size.

Other sizes can be specially ordered. Please ask for details.

Steel Weld Mesh

Section
1" x 1" x 10 SWG
2" x 2" x 10 SWG

Available in 8' x 4' sheets



These sizes are available ex stock. Other sizes and metals can be specially ordered. Please ask for details.

Expanded Metal Mesh & Perforated Sheet

A wide variety of patterns in aluminium, mild steel and stainless steel are available. Please ask for details.

Tread Plate

5 bar - Aluminium

Thickness (mm)	2	3	4.5
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Aluminium triple grip and propeller grip and mild steel tread plate also available. Tread Plate can be supplied in 2.5 x 1.25 metre sheets or cut to size. Please ask for details.

Brass & Copper

A range of flats, angles, round tubes and round bars are available. Please ask for details.

Silver Steel

A wide variety of metric and imperial sizes available ex stock as 13" lengths. Longer lengths are available. Please ask for details.