

L A



Aluminium

SEVENTH EDITION

L.A. METALS LIMITED

L.A. METALS LTD.

- Aluminium Stockholder -

THE SERVICES WE OFFER

- DELIVERY** - Same/Following day delivery by our own transport.
- FABRICATION** - Including drilling, countersinking and pressings.
- CUTTING** - All stock items can be cut to customer requirements.
- FINISHING** - Anodising, Powder Coating and Polishing.
- CUSTOM SECTIONS** - Special Extrusions can be held in stock for individual customer call off.



As an independent stockholder we survive only by providing you with a combination of consistent quality, reliable and prompt delivery, realistic pricing and personal service.

It is our aim at all times to maintain high standards in all these areas - please contact us on

Tel: 0121 553 6846 or Fax: 0121 553 3270

E: sales@lametals.co.uk W: www.lametals.co.uk

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No liability can be accepted by L.A. Metals Ltd. for any errors or omissions in this catalogue.



CONVERSION FACTORS – BRITISH/METRIC

To convert	Multiply by
Inches to millimetres	25.40
Feet to metres	0.3048
Yards to metres	0.914
Square inches to square centimetres	6.4516
Square feet to square metres	0.092903
Cubic inches to cubic centimetres	16.3871
Cubic feet to cubic metres	0.028317
Cubic yards to cubic metres	0.764555
Pounds to kilograms	0.453592
Tons to tonnes (1000kg)	1.01605
Lb/sq. inch to kg/sq. metre	703.070

CONVERSION FACTORS – METRIC/BRITISH

To convert	Multiply by
Millimetres to inches	0.0393701
Metres to feet	3.28084
Metres to yards	1.09361
Square centimetres to square inches	0.1550
Square metres to square feet	10.73391
Square metres to square yards	1.19599
Cubic centimetres to cubic inches	0.061024
Cubic metres to cubic feet	35.3147
Cubic metres to cubic yards	1.30795
Kilograms to pounds	2.20462
Tonnes (1000kg) to tons	0.984207
Kg/sq. metre to lb/sq. inch	0.001422



Anodising, Powdercoating,
Polishing + Fabricating
available on many stock items.
Please ask for details

CONVERSION TABLES

inches		mm
fractions	decimals	
1/64	.0156	.3969
1/32	.0312	.7937
3/64	.0469	1.1906
1/16	.0625	1.5875
5/64	.0781	1.9844
3/32	.0938	2.3812
7/64	.1094	2.7781
1/8	.125	3.1750
9/64	.1406	3.5719
5/32	.1562	3.9687
11/64	.1719	4.3656
3/16	.1875	4.7625
13/64	.2031	5.1594
7/32	.2188	5.5562
15/64	.2344	5.9531
1/4	.25	6.3500
17/64	.2656	6.7469
9/32	.2812	7.1437
19/64	.2969	7.5406
5/16	.3125	7.9375
21/64	.3281	8.3344
11/32	.3438	8.7312
23/64	.3594	9.1281
3/8	.375	9.5250
25/64	.3906	9.9219
13/32	.4062	10.3187
27/64	.4219	10.7156
7/16	.4375	11.1125
29/64	.4531	11.5094
15/32	.4688	11.9062
31/64	.4844	12.3031
1/2	.5000	12.7000

inches		mm
fractions	decimals	
33/64	.5156	13.0969
17/32	.5312	13.4937
35/64	.5469	13.8906
9/16	.5625	14.2875
37/64	.5781	14.6844
19/32	.5938	15.0812
39/64	.6094	15.4781
5/8	.625	15.8750
41/64	.6406	16.2719
21/32	.6562	16.6687
43/64	.6719	17.0656
11/16	.6875	17.4625
45/64	.7031	17.8594
23/32	.7188	18.2562
47/64	.7344	18.6531
3/4	.75	19.0500
49/64	.7656	19.4469
25/32	.7812	19.8437
51/64	.7969	20.2406
13/16	.8125	20.6275
53/64	.8281	21.0344
27/32	.8438	21.4312
55/64	.8594	21.8281
7/8	.875	22.2250
57/64	.8906	22.6219
29/32	.9062	23.0187
59/64	.9219	23.4156
15/16	.9375	23.8125
61/64	.9531	24.2094
31/32	.9688	24.6062
63/64	.9844	25.0031
1	1.0000	25.4001

standard wire gauge		
swg	inch	mm
1	.300	7.620
2	.276	7.01
3	.252	6.400
4	.232	5.892
5	.212	5.349
6	.192	4.877
7	.176	4.470
8	.160	4.064
9	.144	3.658
10	.128	3.251
11	.116	2.946
12	.104	2.642
13	.092	2.337
14	.080	2.032
15	.072	1.829
16	.064	1.626
17	.056	1.422
18	.048	1.219
19	.040	1.016
20	.036	0.914
21	.032	0.813
22	.028	0.711
23	.024	0.610
24	.022	0.559
25	.020	0.508
26	.018	0.457

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SPECIFICATIONS/MECHANICAL PROPERTIES

SPECIFICATIONS	
BS 1470/4	Related International
S1A – O – H4	1080A – O – H4
S1B – H4 T1B – H8	1050A – H4 – H8
E1E – H2	– H2
S1C – O – H4 – H8	1200 – O – H4 – H8
E1C – M T1C – H8	– M – H8
NS3 – H4	3103 – H4
NS4 – M – O – H3 – H6 NT4 – O	5251 – M – O – H3 – H6 – O
NS41 – H4 (AAQ5)	5005 – H4
NS8 – M – O – H2	5083 – M – O – H2
HE9 – M – TB – TE – TF HT9 – TF	6063 – M – T4 – T5 – T6 – T6
E91E – TF	6101A – T6
HS30 – TB – TF	6082 – T4 – T6
HE30 – TB – TF	– T4 – T6
HT30 – TF	– T6
HS15 – TB – TF	2014 – T4 – T6
HE15 – TB – TF	– T4 – T6
FC1 – TD – TF	2011 – T3 – T6

MECHANICAL PROPERTIES				
Available Form	0.2% Proof Stress hbar	Tensile Strength hbar	Elongation % on 50mm	Typical Hardness Brinell
Sheet	–	9.0 max	29 – 35	19
Sheet	–	0.5 – 12.0	5 – 8	29
Sheet	–	10.0 – 13.5	4 – 8	30
Tube	–	13.5	–	30
Extrusion	–	8.5	13	24
Sheet	–	7.0 – 10.5	20 – 30	22
Sheet	–	11.0 – 14.0	3 – 6	34
Sheet	–	14.0	2 – 4	42
Extrusion	–	6.0	18	23
Tube	–	14.0	–	34
Sheet	–	14.0 – 17.5	3 – 7	44
Plate	–	18.5	12 – 15	53
Sheet	6.0	16.0 – 20.0	18 – 20	45
Sheet	13.0	20.0 – 24.0	4 – 8	62
Sheet	17.5	22.5 – 27.5	3 – 5	70
Tube	6.0	16.0 – 20.0	18	45
Sheet	–	15.5 – 18.5	7	–
Plate	13.0	27.5	–	77
Sheet	12.5	27.5 – 35.0	12 – 16	72
Sheet	23.5	31.0 – 37.5	5 – 10	95
Extrusion	–	10.0	12	35
Extrusion	7.0	13.0	14	55
Extrusion	11.0	15.0	7	65
Extrusion	13.0 – 16.0	15.0 – 18.5	7	80
Tube	18.0	20.0	8	80
Extrusion	17.5	20.0	7	70
Sheet	11.5 – 12.0	20.0	15	65
Sheet	24.0 – 25.5	29.5	8	100
Extrusion	10.5 – 12.0	17.0 – 19.0	14	65
Extrusion	24.0 – 27.0	28.0 – 31.0	7	100
Tube	24.0 – 25.5	31.0	8	100
Sheet	24.5	38.5	13 – 14	115
Sheet	34.5 – 38.0	42.0 – 44.0	6 – 9	135
Extrusion	23.0 – 25.0	37.0 – 39.0	10	115
Extrusion	37.0 – 43.5	43.5 – 48.0	6	135
Extrusion	23.0 – 25.5	29.5 – 31.0	6	95
Extrusion	19.5 – 22.5	29.5 – 31.0	8	100

DESIGNATION:

NON-HEAT TREATED ALLOYS

M	– As manufactured
O	– Soft
H2	– Quarter Hard
H3	– Quarter Hard

H4	– Half hard
H6	– Half hard
H8	– Fully hard

T4	– Solution treated and naturally aged
T5	– Precipitation treated
T6	– Solution and precipitation treated
TD	– Solution treated, cold worked and naturally aged



GENERAL CHARACTERISTICS

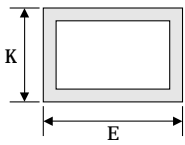
Cold Forming	Machining	Durability	Inert Gas Shielded Arc (MIG or TIG)	Resistance (Spot, Seam, Flash, Stud)	General Description
E V	F	E	E	G	99.8% Purity. Very malleable. Excellent corrosion resistance.
V F	F G	V	E	V	99.5% Purity. Malleable. Good corrosion resistance.
V	F	V	E	V	Electrical Purity. Very good conductivity.
E V F E F	F F G F G	V	E	V	99% Purity. Commercial grade, normally the cheapest form, used where strength is not important.
V	F	V	E	E	Slightly stronger than pure aluminium, other properties similar.
V V G G V	G G G V G	V	V	E	Medium strength alloy, work hardens rapidly. Resistant to marine atmosphere.
G	G	V	V	V	Architectural anodising quality.
G G F	E E E	V V F	E	E	Higher strength than 5251 while retaining corrosion resistance.
E V G F F	G G G V V	G V G G G	V	V	Medium strength alloy for architectural extrusions. Very good for complicated shapes, corrosion resistance and anodising.
G	V	G	V	V	Medium strength with good electrical conductivity.
G F G F F	V E V E E	V G V G G	V	V	Structural alloy with good strength and corrosion resistance.
G F G F	E	P	N	E	High strength alloy, low corrosion resistance.
F	E	P	N	N	Free-cutting alloy for use in automatic lathes.

MATERIALS ARE GRADED THUS:

E	- Excellent	F	- Fair
V	- Very good	P	- Poor
G	- Good	N	- Not recommended



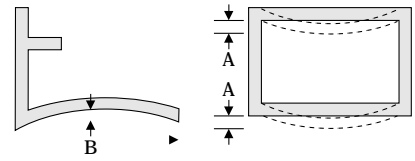
LIMITS AND TOLERANCES



Hollow and Flat Sections

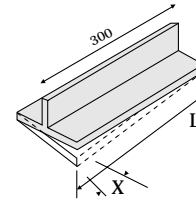
Width or with across flats Tolerance at

over		up to and including		E and K
mm	mm	mm	mm	mm
-	3			0.16
3	10			0.20
10	18			0.26
18	30			0.32
30	40			0.40
40	60			0.45
60	80			0.50
80	100			0.65
100	120			0.80
120	140			0.90
140	160			1.00



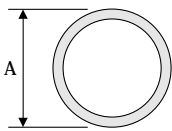
Bow

A 0.5% max of B (individual surfaces)



Twist

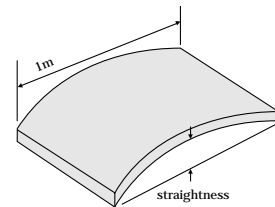
Circumscribing circle	Angle of twist per 300 min. run	Total angle of twist per length L
mm	X'	maximum
under 40	1'	5'
40 up to and inc. 80	1/2'	3'
Over 80	1/4'	2'



Round Tubes

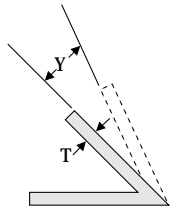
Nominal outside diameter Tolerance

over		up to and including		on A
mm	mm	mm	mm	mm
12	18			0.25
18	30			0.30
30	40			0.36
40	50			0.45
50	60			0.54
60	80			0.60
80	300			1% of dia.



Straightness

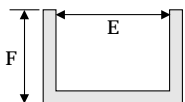
For diameter, or sections within circumscribing circle	Conditions	Departure from straightness over any length of 1000mm
mm	mm	mm
Up to 100	All	1.5
Over 100	M	2.0
	All others	2.5



Angular

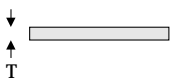
Nominal thickness of thinnest leg T

over		up to and including		Allowance deviation from angle specified Y
mm	mm	mm	mm	±'
-	1.6			2'
1.6	5.0			1 1/2'
5.0	-			1'



Open ends of channels

Overall width of channel E		Leg length F											
over		Over	mm	10	18	30	40	60	80	100	120	140	160
mm	mm	Up to and inc. mm	mm	10	18	30	40	60	80	100	120	140	160
10	10		0.23	0.28	0.34								
10	18		0.29	0.34	0.40	0.46	0.55						
18	30		0.37	0.44	0.53	0.62	0.76	0.93	1.11				
30	40		0.45	0.52	0.61	0.70	0.84	1.01	1.19	1.36	1.54		
40	60			0.57	0.66	0.75	0.89	1.06	1.24	1.41	1.59	1.76	
60	80			0.62	0.71	0.80	0.94	1.11	1.29	1.46	1.64	1.81	
80	100				0.90	1.01	1.17	1.38	1.69	1.80	2.01	2.22	
100	120				1.05	1.16	1.32	1.53	1.74	1.95	2.16	2.57	
120	140				1.15	1.26	1.42	1.63	1.84	2.05	2.26	2.47	
140	160				1.25	1.36	1.52	1.73	1.94	2.15	2.36	2.57	



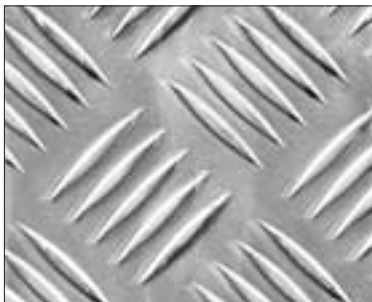
Thickness of bars and regular sections

Width or width across flats		Thickness T										
over		Over	mm	1.6	3	6	10	18	30	40	60	
mm	mm	Up to and inc. mm	mm	1.6	3	6	10	18	30	40	60	
	10		±	0.16	0.18	0.20	0.22					
10	18			0.18	0.20	0.22	0.24	0.26				
18	30			0.22	0.24	0.26	0.28	0.30	0.32			
30	60			0.24	0.26	0.28	0.30	0.33	0.36	0.40		
60	80			0.28	0.30	0.32	0.34	0.37	0.40	0.43	0.45	
80	120			0.32	0.34	0.36	0.39	0.42	0.45	0.48	0.52	
120	180				0.36	0.40	0.45	0.50	0.55	0.60	0.65	

PLAIN ALUMINIUM SHEET AND PLATE

	2000 X 1000	2500 X 1250	3000 X 1500	4000 X 2000	Kgs/M ²
.5mm	2.7	4.22	N/A	N/A	1.35
.7mm	3.79	5.91	N/A	N/A	1.89
1.0mm	5.4	8.44	N/A	N/A	2.70
1.2mm	6.5	10.16	N/A	N/A	3.25
1.5mm	8.13	12.7	18.29	32.52	4.07
2.0mm	10.8	16.88	24.30	43.20	5.4
2.5mm	13.55	21.17	30.49	54.2	6.78
3.0mm	16.2	25.31	36.45	64.8	8.1
4.0mm	21.68	33.88	48.78	86.72	10.84
5.0mm	27	42.19	60.75	108	13.5
6.0mm	32.52	50.81	73.17	130.08	16.26
10mm	54.2	84.7	121.95	N/A	27.1
12mm	65.06	101.66	146.38	N/A	32.53
15mm	81.2	126.88	182.7	N/A	40.6
20mm	108.4	169.38	243.9	N/A	54.2
25mm	135.4	211.56	304.65	N/A	67.7
30mm	162.6	254.06	365.85	N/A	81.3
40mm	216.8	338.75	487.8	N/A	108.4
50mm	271	423.44	609.75	N/A	135.5

FIVE BAR



PATTERNED ALUMINIUM AND PLATE

FIVE BAR	2000 X 1000	2500 X 1250	3000 X 1500
2mm	✓	✓	✓
3mm	✓	✓	✓
4mm	✓	N/A	N/A
4.5mm	✓	✓	✓
6.0mm	✓	✓	✓
9.5mm	✓	✓	N/A

STUCCO



STUCCO	2000 X 1000	2500 X 1250
.5mm	✓	N/A
.6mm	✓	N/A
.7mm	N/A	✓
.9mm	N/A	✓

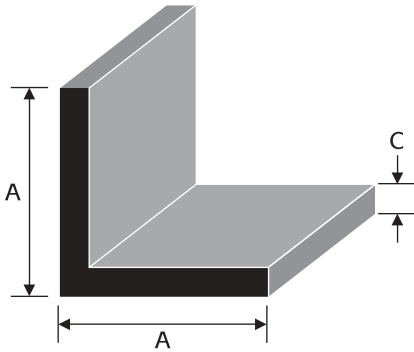
CHECK MATE



CHECK MATE	2500 X 1250
1.2mm	✓
1.6mm	✓
2.0mm	✓
2.5mm	✓
3.0mm	✓

Anodising, Powdercoating,
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EQUAL ANGLE – STOCK SIZES



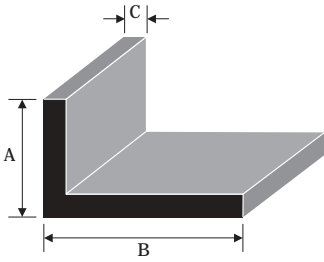
If the size you require is not listed, please contact us as our stock range is constantly being increased.

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Imperial Size inches		Weight kg/m	Metric Size mm	
A	C		A	C
3/8	1/16	.076	9.5	1.6
1/2	1/16	.103	12.7	1.6
	1/8	.190		3.2
5/8	1/16	.128	15.9	1.6
	1/8	.246		3.2
3/4	1/16	.156	19.0	1.6
	1/8	.301		3.2
7/8	1/16	.183	22.2	1.6
	1/8	.350		3.2
1	1/16	.213	25.4	1.6
	1/8	.411		3.2
	3/16	.597		4.8
	1/4	.768		6.4
1 1/8	1/8	.464	28.6	3.2
1 1/4	1/16	.265	31.8	1.6
	1/8	.519		3.2
	3/16	.756		4.8
	1/4	.984		6.4
1 3/8	1/8	.545	34.9	3.2
1 1/2	1/16	.329	38.1	1.6
	1/8	.628		3.2
	3/16	.921		4.8
	1/4	1.204		6.4
1 3/4	1/8	.737	44.5	3.2
	1/4	1.421		6.4
2	1/16	.430	50.8	1.6
	1/8	.847		3.2
	3/16	1.247		4.8
	1/4	1.640		6.4
	3/8	2.360		9.5
2 1/2	1/8	1.066	63.5	3.2
	3/16	1.662		4.8
	1/4	2.078		6.4
	3/8	3.063		9.5
3	1/8	1.284	76.2	3.2
	3/16	1.907		4.8
	1/4	2.515		6.4
	3/8	3.728		9.5
4	1/8	1.683	101.6	3.2
	1/4	3.500		6.4
	3/8	5.250		9.5
	1/2	6.620		12.7
6	1/2	10.151	152.4	12.7
ADDITIONS				



UNEQUAL ANGLE - STOCK SIZES



If the size you require is not listed, please contact us as our stock range is constantly being increased.

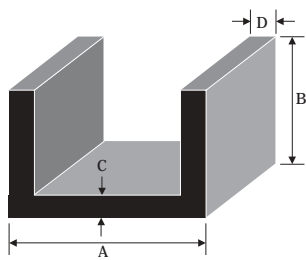
Imperial Size inches			Weight kg/m	Metric Size mm		
A	B	C		A	B	C
3/4	3/8	1/16	.106	19.0	9.5	1.6
	1/2	1/16	.129		12.7	1.6
	1/2	1/8	.246		12.7	3.2
1	1/2	1/16	.156	25.4	12.7	1.6
	1/2	1/8	.302		12.7	3.2
	5/8	1/8	.327		15.9	3.2
	3/4	1/16	.189		19.0	1.6
	3/4	1/8	.356		19.0	3.2
1 1/4	1/2	1/8	.356	31.8	12.7	3.2
	3/4	1/8	.409		19.0	3.2
	1	1/8	.464		25.4	3.2
1 1/2	1/2	1/8	.409	38.1	12.7	3.2
	3/4	1/8	.464		19.0	3.2
	1	1/16	.265		25.4	1.6
	1	1/8	.513		25.4	3.2
	1	3/16	.760		25.4	4.8
1 3/4	3/4	1/8	.530	44.5	19.0	3.2
	7/8	1/8	.546		22.2	3.2
	1	1/8	.574		25.4	3.2
2	1/2	1/8	.518	50.8	12.7	3.2
	3/4	1/8	.574		19.0	3.2
	1	1/8	.628		25.4	3.2
	1	3/16	.918		25.4	4.8
	1	1/4	1.202		25.4	6.4
	1 1/4	1/8	.670		31.8	3.2
	1 1/2	1/8	.738		38.1	3.2
	1 1/2	3/16	1.083		38.1	4.8
	1 1/2	1/4	1.426		38.1	6.4
	2 1/4	1 1/4	1/8		.738	57.2	31.8	3.2
2 1/2	1	1/8	.738	63.5	25.4	3.2
	1	1/4	1.420		25.4	6.4
	1 1/2	1/8	.851		38.1	3.2
	1 1/2	3/16	1.249		38.1	4.8
	1 1/2	1/4	1.640		38.1	6.4
	2	3/16	1.477		50.8	4.8
	2	1/4	1.905		50.8	6.4
3	1	1/8	.847	76.2	25.4	3.2
	1	1/4	1.654		25.4	6.4
	1 1/2	1/8	.955		38.1	3.2
	1 1/2	1/4	1.860		38.1	6.4
	2	1/8	1.066		50.8	3.2
	2	3/16	1.610		50.8	4.8
	2	1/4	2.078		50.8	6.4
4	1	1/8	1.066	101.6	25.4	3.2
	2	1/8	1.282		50.8	3.2
	2	1/4	2.515		50.8	6.4
	3	1/4	2.993		76.2	6.4
	3	3/8	4.300		76.2	9.5
6	3	1/4	3.800	152.4	76.2	6.4
	3	3/8	5.724		76.2	9.5

ADDITIONS

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CHANNEL - STOCK SIZES

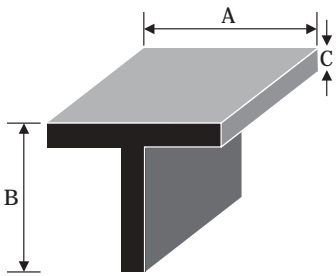


If the size you require is not listed, please contact us as our stock range is constantly being increased.

Imperial Size inches				Weight kg/m	Metric Size mm			
A	B	C	D		A	B	C	D
1/4	3/8	.050	.050	.070	6.4	9.5	1.3	1.3
				.110	10	10	1.5	1.5
1/2	1/2 1/2 5/8	1/16 1/8 1/8	1/16 1/8 1/8	.147	12.7	12.7	1.6	1.6
				.272		12.7	3.2	3.2
				.340		15.9	3.2	3.2
5/8	5/8 5/8	1/16 1/8	1/16 1/8	.196	15.9	15.9	1.6	1.6
				.351		15.9	3.2	3.2
3/4	1/2 1/2 3/4 3/4	1/16 1/8 1/16 1/8	1/16 1/8 1/16 1/8	.201	19.0	12.7	1.6	1.6
				.327		12.7	3.2	3.2
				.239		19.0	1.6	1.6
				.438		19.0	3.2	3.2
7/8	7/8	1/8	1/8	.509	22.2	22.2	3.2	3.2
1	1/2 3/4 1 1 1 1/2 2	1/8 1/8 1/16 1/8 1/8 1/8	1/8 1/8 1/16 1/8 1/8 1/8	.381	25.4	12.7	3.2	3.2
				.491		19.0	3.2	3.2
				.360		25.4	1.6	1.6
				.603		25.4	3.2	3.2
				.850		38.1	3.2	3.2
				1.016		50.8	3.2	3.2
1 1/8	3/4 1	1/8 1/8	1/8 1/8	.519	28.6	19.0	3.2	3.2
				.628		25.4	3.2	3.2
1 1/4	1/2 3/4 1 1 1/4 1 1/4	1/8 1/8 1/8 1/8 3/16	1/8 1/8 1/8 1/8 3/16	.438	31.8	12.7	3.2	3.2
				.548		19.0	3.2	3.2
				.689		25.4	3.2	3.2
				.765		31.8	3.2	3.2
				1.108		31.8	4.8	4.8
1 3/8	1	1/8	1/8	.683	34.9	25.4	3.2	3.2
1 1/2	1/2 3/4 1 1 1/2 1 1/2 1 1/2	1/8 1/8 1/8 1/8 3/16 1/4	1/8 1/8 1/8 1/8 3/16 1/4	.395	38.1	12.7	3.2	3.2
				.600		19.0	3.2	3.2
				.710		25.4	3.2	3.2
				.929		38.1	3.2	3.2
				1.470		38.1	4.8	4.8
				1.838		38.1	38.1	6.4
1 3/4	1	1/8	1/8	.765	44.5	25.4	3.2	3.2
2	1/2 3/4 1 1 1 1 1/2 1 1/2 2 2	1/8 1/8 1/8 3/16 1/4 1/8 1/4 1/8 1/4 1/4	1/8 1/8 1/8 3/16 1/4 1/8 1/4 1/8 1/4 1/4	.620	50.8	12.7	3.2	3.2
				.715		19.0	3.2	3.2
				.821		25.4	3.2	3.2
				1.186		25.4	4.8	4.8
				1.531		25.4	6.4	6.4
				1.034		38.1	3.2	3.2
				1.969		38.1	6.4	6.4
				1.256		50.8	3.2	3.2
				2.406		50.8	6.4	6.4
2 1/4	1 1/4	3/16	3/16	1.432	57.2	31.8	4.8	4.8
2 1/2	1 1 1/2	1/8 3/16	1/8 3/16	.929	63.5	25.4	3.2	3.2
				1.801		38.1	4.8	4.8
3	1 1 1/2 1 1/2 2 2	1/8 1/8 1/4 1/8 1/4	1/8 1/8 1/4 1/8 1/4	1.040	76.2	25.4	3.2	3.2
				1.284		38.1	3.2	3.2
				2.704		38.1	6.4	6.4
				1.478		50.8	3.2	3.2
				2.844		50.8	6.4	6.4
3 1/2	1 1/2	1/4	5/16	2.930	88.9	38.1	6.4	7.9
4	1 2 2 2 2	1/8 1/8 3/16 1/4 1/4	1/8 1/8 3/16 1/4 5/16	1.220	101.6	25.4	3.2	3.2
				1.696		50.8	3.2	3.2
				2.496		50.8	4.8	4.8
				3.230		50.8	6.4	6.4
				3.762		50.8	6.4	7.9
5	2	1/4	1/4	4.316	127.0	50.8	6.4	6.4
6	2 3 3	1/4 1/4 3/8	5/16 3/8 1/2	4.652	152.4	50.8	6.4	7.9
				6.405		76.2	6.4	9.5
				8.840		76.2	9.5	12.7



TEE SECTIONS

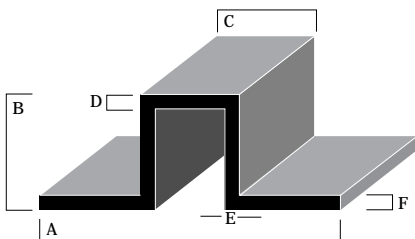


If the size you require is not listed, please contact us as our stock range is constantly being increased.

Imperial Size inches			Weight kg/m	Metric Size mm		
A	B	C		A	B	C
1/2	1/2	1/16	.104	12.7	12.7	1.6
5/8	5/8	1/8	.250	15.9	15.9	3.2
3/4	3/4	1/16	.160	19.0	19.0	1.6
	3/4	1/8	.302			
7/8	7/8	1/8	.360	22.2	22.2	3.2
1	1	1/16	.213	25.4	25.4	1.6
	1	1/8	.411			
	2	1/8	.631			
1 1/4	1 1/4	1/8	.520	31.7	31.7	3.2
1 1/2	1 1/2	1/16	.350	38.1	38.1	1.6
	1 1/2	1/8	.631			
	1 1/2	3/16	.931			
	1 1/2	1/4	1.210			
2	1	1/8	.631	50.8	25.4	3.2
	1	3/16	.931			
	2	1/8	.851			
	2	3/16	1.477			
	2	1/4	1.652			
2 1/2	2 1/2	1/4	2.140	63.5	63.5	6.35
3	3	1/4	2.570	76.2	76.2	6.35
4	3	1/4	3.021	101.6	76.2	6.35
	4	1/4	3.410			
	4	3/8	4.431			

TOP HATS

TOP HAT

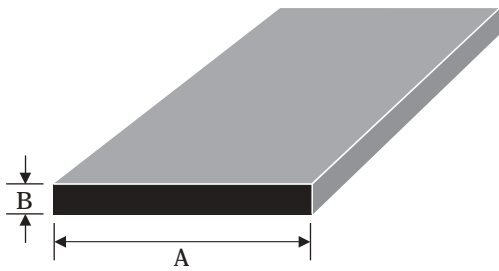


A In.	B In.	C In.	D In.	E In.	F In.	Kg/M
2 1/4	1 1/4	1	3/32	3/32	3/32	.745
2 1/2	1 1/4	1	3/32	3/32	3/32	0.778
3	1 1/4	1 1/2	5/64	5/64	5/64	0.778
4	1 3/4	1 1/2	1/4	1/8	1/8	1.845



Anodising, Powdercoating,
Polishing + Fabricating
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FLAT BARS



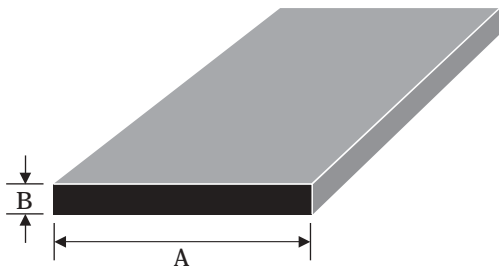
If the size you require is not listed, please contact us as our stock range is constantly being increased.

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Please ask for details

Imperial Size inches		Weight kg/m	Metric Size mm	
A	B		A	B
3/8	1/8	.082	9.5	3.2
	3/16	.125		4.76
	1/4	.164		6.35
1/2	1/16	.055	12.7	1.6
	1/8	.110		3.2
	3/16	.165		4.76
	1/4	.220		6.35
	3/8	.330		9.52
5/8	1/8	.140	15.9	3.2
	3/16	.205		4.76
	1/4	.274		6.35
	3/8	.411		9.5
	1/2	.550		12.7
3/4	1/16	.082	19.0	1.6
	1/8	.165		3.2
	3/16	.246		4.76
	1/4	.330		6.35
	5/16	.411		7.95
	3/8	.494		9.52
	1/2	.660		12.7
	5/8	.823		15.9
7/8	1/8	.192	22.2	3.2
	3/16	.289		4.76
	1/4	.384		6.35
	3/8	.576		9.52
	1/2	.770		12.7
1	1/16	.112	25.4	1.6
	1/8	.220		3.2
	3/16	.330		4.76
	1/4	.440		6.35
	5/16	.550		7.95
	3/8	.660		9.52
	1/2	.880		12.7
	5/8	1.100		15.9
	3/4	1.320		19.0
1 1/4	1/8	.274	31.75	3.2
	3/16	.411		4.76
	1/4	.550		6.35
	5/16	.686		7.94
	3/8	.823		9.52
	1/2	1.100		12.7
	5/8	1.372		15.9
	3/4	1.652		19.0
	1	2.200		25.4
1 1/2	1/16	.165	38.10	1.6
	1/8	.330		3.2
	3/16	.494		4.76
	1/4	.660		6.35
	5/16	.823		7.94
	3/8	.988		9.52
	1/2	1.320		12.7
	5/8	1.652		15.9
	3/4	1.980		19.0
1 3/4	1	2.634	44.45	25.4
	1/8	.384		3.2
	3/16	.576		4.76
	1/4	.770		6.35
	3/8	1.152		9.52
	1/2	1.537		12.7
	5/8	2.00		15.9
	3/4	2.290		19.0
	1	3.070		25.4



FLAT BARS



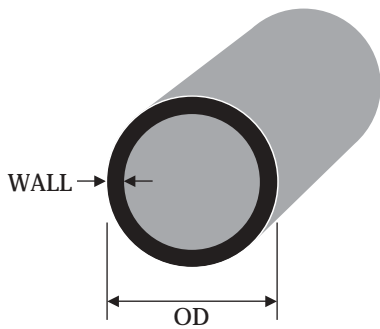
If the size you require is not listed, please contact us as our stock range is constantly being increased.

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Please ask for details

Imperial Size inches		Weight kg/m	Metric Size mm			
A	B		A	B		
2	1/8	.440	50.8	3.2		
	3/16	.660		4.76		
	1/4	.880		6.35		
	5/16	1.100		7.94		
	3/8	1.320		9.52		
	1/2	1.760		12.7		
	5/8	2.200		15.9		
	3/4	2.634		19.0		
	1	3.512		25.4		
	1 1/2	5.267		38.1		
	2 1/4	1/4		.988	57.15	6.35
	2 1/2	1/8		.550	63.5	3.2
3/16		.823	4.76			
1/4		1.100	6.35			
3/8		1.652	9.52			
1/2		2.200	12.7			
5/8		2.722	15.9			
3/4		3.330	19.0			
1		4.390	25.4			
1 1/2		6.580	38.1			
3		1/8	.660	76.2		3.2
		3/16	.988			4.76
		1/4	1.320			6.35
	5/16	1.670	7.94			
	3/8	1.980	9.52			
	1/2	2.634	12.7			
	5/8	3.330	15.9			
	3/4	3.960	19.0			
	1	5.267	25.4			
	1 1/2	7.900	38.1			
	2	10.530	50.8			
	3 1/2	1/4	1.537		88.90	6.35
1/2		3.070	12.7			
4	1/8	.880	101.6	3.2		
	3/16	1.320		4.76		
	1/4	1.760		6.35		
	3/8	2.634		9.52		
	1/2	3.512		12.7		
	5/8	4.390		15.9		
	3/4	5.267		19.0		
	1	7.023		25.4		
	1 1/2	10.530		38.1		
	2	14.049		50.8		
	5	1/4		2.200	127.0	6.35
		3/8		3.300		9.52
1/2		4.390	12.7			
3/4		6.580	19.0			
6	1/8	1.320	152.4	3.2		
	1/4	2.634		6.35		
	3/8	3.960		9.52		
	1/2	5.267		12.7		
	3/4	8.090		19.0		
	1	10.530		25.4		
ADDITIONS						



ROUND TUBES



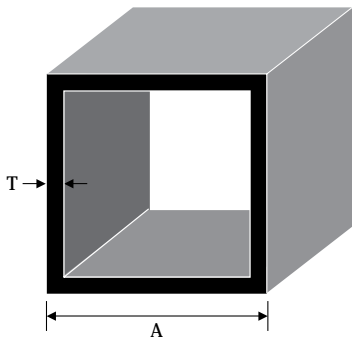
If the size you require is not listed, please contact us as our stock range is constantly being increased.

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Please ask for details



Imperial Size		Weight kg/m	Metric Size	
O.D.	Wall		O.D.	Wall
1/4	20 swg	.042	6.35	0.9
	16 swg	.065		1.6
5/16	20 swg	.055	7.95	0.9
	16 swg	.088		1.6
3/8	20 swg	.067	9.5	0.9
	16 swg	.109		1.6
1/2	16 swg	.153	12.7	1.6
	10 swg	.260		3.2
5/8	16 swg	.200	15.9	1.6
	10 swg	.350		3.2
3/4	18 swg	.184	19.0	1.2
	16 swg	.241		1.6
	14 swg	.293		2.0
	12 swg	.368		2.6
	10 swg	.440		3.2
		.436	20.0	3.0
7/8	16 swg	.284	22.2	1.6
	10 swg	.524		3.2
1	18 swg	.250	25.4	1.2
	16 swg	.330		1.6
	14 swg	.399		2.03
	10 swg	.612		3.2
	3/16	.840		4.76
1/4	1.030	6.35		
1 1/8	16 swg	.372	28.6	1.6
	10 swg	.700		3.2
1 1/4	16 swg	.415	31.7	1.6
	10 swg	.790		3.2
1 3/8	16 swg	.460	34.9	1.6
	10 swg	.875		3.2
1 1/2	16 swg	.503	38.1	1.6
	10 swg	.963		3.2
	3/16	1.351		4.76
	1/4	1.710		6.35
1 5/8	16 swg	.550	41.3	1.6
	10 swg	1.050		3.2
1 3/4	16 swg	.591	44.4	1.6
	10 swg	1.140		3.2
1 7/8	10 swg	1.225	47.6	3.2
1 29/32	7 swg	1.652	48.4	4.5
2	16 swg	.680	50.8	1.6
	10 swg	1.320		3.2
	3/16	1.870		4.76
	1/4	2.411		6.35
2 1/4	16 swg	.766	57.1	1.6
	10 swg	1.490		3.2
	1/4	2.753		6.35
2 1/2	16 swg	.860	63.5	1.6
	10 swg	1.670		3.2
	1/4	3.110		6.35
2 3/4	10 swg	1.850	69.8	3.2
3	16 swg	1.051	76.2	1.6
	10 swg	2.030		3.2
	1/4	3.780		6.35
3 1/4	16 swg	1.167	82.5	1.6
	10 swg	2.200		3.2
3 1/2	16 swg	1.205	88.9	1.6
	10 swg	2.370		3.2
	1/4	4.480		6.35
4	16 swg	1.381	101.6	1.6
	14 swg	1.77		2.03
	10 swg	2.730		3.2
	1/4	5.170		6.35
4 1/2	10 swg	3.080	114.3	3.2
	1/4	5.680		6.35
5	10 swg	3.440	127.0	3.2
		3.55		152.4	2.75
6	10 swg	4.120		3.2
	1/4	7.950		6.35

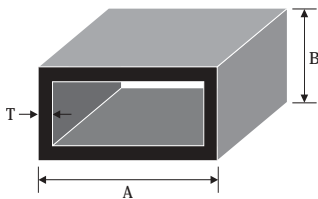
SQUARE AND RECTANGULAR TUBE - STOCK SIZES



If the size you require is not listed, please contact us as our stock range is constantly being increased.

ALL BOX SECTIONS ARE KEPT IN 5 & 6 METRE LENGTHS

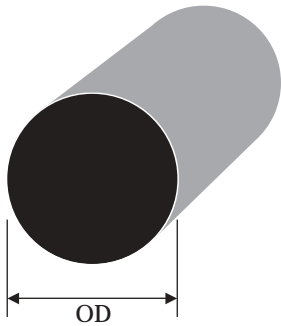
Imperial Size		Weight kg/m	Metric Size	
A	T swg		A	B
1/2	16	.192	12.7	1.6
5/8	16	.270	15.8	1.6
3/4	16	.308	19.0	1.6
	10	.547		3.3
1	16	.420	25.4	1.6
	10	.766		3.3
1 1/8	16	.468	28.6	1.6
		.610		2.0
1 1/4	16	.530	31.8	1.6
		1.060		3.3
1 1/2	16	.631	38.1	1.6
		1.210		3.3
1 3/4	10	.824	40.0	2.0
		1.420		3.3
2	16	1.041	50.8	2.0
		1.140		3.3
2 1/4	10	1.300	60.0	2.0
		1.420		3.3
2 1/2	10	1.640	76.2	3.3
		1.900		6.35
3	10	2.020	89.0	3.6
		2.200		2.0
3 1/2	9	2.039	100.0	2.0
		2.200		2.0
4	10	2.124	101.6	3.3
		2.410		6.35
4 1/2	10	2.425	150.0	3.0
		2.805		3.0
5	10	3.029	150.0	4.0
		3.378		4.0



Imperial Size mm			Weight kg/m	Metric Size mm		
A	B	T swg		A	B	T
1 1/2	3/4	16	0.499	30.0	20.0	2.0
		10	0.486	38.1	19.0	1.6
		16	0.874			3.3
		10	0.535		25.4	1.6
2	1	16	1.010		25.4	3.3
		10	.65	40.0	20.0	2.0
		10	1.200	50.8	25.4	3.3
		10	1.178		31.7	3.3
2 1/2	1	10	1.430		38.1	3.3
		10	1.430	50.0	30.0	3.0
		10	1.22	63.5	25.4	3.3
3	1	10	1.640	76.2	25.4	3.3
		10	1.900		38.1	3.3
		10	2.020		44.5	3.3
		10	2.039		50.8	3.3
4	1	10	2.124	101.6	25.4	3.3
		10	2.410		44.5	3.3
		10	2.425		50.8	3.3
		1/4	4.820		50.8	6.35
		10	3.029		76.2	3.3
4 1/2	1 3/4	10	2.510	114.3	44.4	3.2
		10	3.850	120	60	4.0
5	1 3/4	10	2.805	127	44.5	3.3
6	1 3/4	10	3.365	152.4	44.5	3.3
		10	3.378		50.8	3.3



ROUND BARS



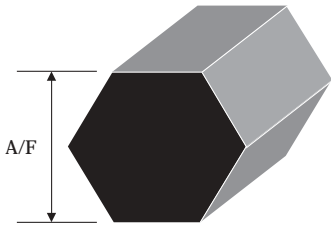
If the size you require is not listed, please contact us as our stock range is constantly being increased.

Anodising, Powdercoating,
Polishing + Fabricating
available on many stock items.
Please ask for details

Imperial Size Dia.	Weight kg/m	Metric Size Dia.
1/8	.021	3.2
3/16	.051	4.76
1/4	.089	6.35
5/16	.138	7.95
3/8	.199	9.52
7/16	.271	11.11
1/2	.354	12.70
9/16	.448	14.29
5/8	.554	15.88
11/16	.670	17.47
3/4	.796	19.05
13/16	.933	20.65
7/8	1.083	22.22
15/16	1.207	23.81
1	1.414	25.40
1 1/8	1.786	28.57
1 1/4	2.202	31.75
1 3/8	2.679	34.92
1 1/2	3.185	38.10
1 5/8	3.735	41.28
1 3/4	4.345	44.45
1 7/8	4.971	47.62
2	5.655	50.80
2 1/8	6.399	53.97
2 1/4	7.158	57.15
2 3/8	7.992	60.32
2 1/2	8.855	63.50
2 5/8	9.748	66.67
2 3/4	10.40	69.85
3	12.37	76.20
3 1/4	14.51	82.5
3 1/2	16.82	88.9
3 3/4	19.35	95.3
4	22.02	101.6
4 1/4	24.85	107.9
4 1/2	27.83	114.3
4 3/4	30.96	121.0
5	34.40	127.0
5 1/4	37.80	133.4
5 1/2	41.50	139.7
5 3/4	45.40	146.0
6	49.40	152.4
6 1/2	58.0	165.1
7	67.3	177.8
7 1/2	77.2	190.5
8	87.9	203.2
9	111.3	228.6
10	137.4	254.0
11	166.2	279.4
12	197.9	304.8
13	232.5	330.2
14	269.6	355.6
16	350.0	406.4



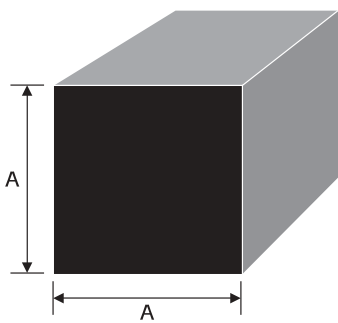
HEXAGONAL BARS



If the size you require is not listed, please contact us as our stock range is constantly being increased.

Imperial Size A/F	Weight kg/m	Metric Size A/F
.445	.308	11.30
.525	.416	13.31
.601	.545	15.24
.709	.787	18.01
.820	1.011	20.76
.919	1.275	23.31
1.011	1.537	25.59
1.101	1.823	27.87
1.301	2.550	32.96
1.390	3.022	35.31
1.480	3.316	37.59
1.670	5.469	42.42

SQUARE BARS

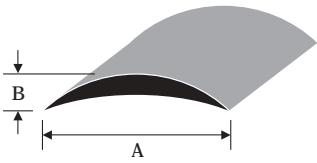


Imperial Size	Weight kg/m	Metric Size
1/4	.110	6.35
5/16	.171	7.95
3/8	.240	9.52
1/2	.440	12.7
5/8	.690	15.9
3/4	.988	19.0
7/8	1.344	22.2
1	1.760	25.4
1 1/4	2.740	31.7
1 1/2	3.960	38.1
1 3/4	5.370	44.4
2	7.024	50.8
2 1/4	8.880	57.1
2 1/2	10.980	63.5
3	15.805	76.2
4	28.127	101.6
5	44.500	127.0
6	63.10	152.4



MOULDINGS

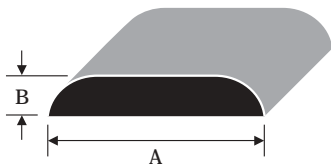
HALF ROUND



If the size you require is not listed, please contact us as our stock range is constantly being increased.

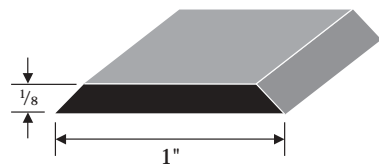
Imperial Size inches		Weight kg/m	Metric Size mm	
A	B		A	B
1/2	3/16	.089	12.7	4.8
5/8	3/16	.097	15.9	4.8
3/4	3/16	.146	19.0	4.8
7/8	3/16	.167	22.2	4.8
1	3/16	.196	25.4	4.8
1 1/4	3/16 1/4	.210 .308	31.8	4.8 6.4
1 1/2	3/16 1/4	.250 .366	38.1	4.8 6.4
2	1/4	.542	50.8	6.4

DOUBLE FEATHER EDGE



Imperial Size inches		Weight kg/m	Metric Size mm	
A	B		A	B
3/4	1/8	.154	19.0	3.2
1	1/8	.207	25.4	3.2
1 1/4	1/8	.262	31.8	3.2
1 1/2	1/8	.318	38.1	3.2

DOUBLE BEVELLED EDGE



Imperial Size inches		Weight kg/m	Metric Size mm	
A	B		A	B
1	1/8	.186	25.4	3.2



Anodising, Powdercoating,
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WALLBOARD SECTIONS FROM STOCK

NOT TO SCALE

TO SECURE

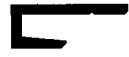
EDGE TRIM

CONTINUAL RUN

INTERNAL CORNER

EXTERNAL CORNER

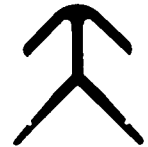
1/8"



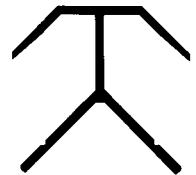
3/16"



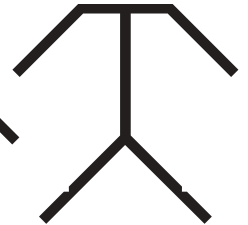
1/4"



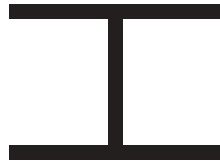
1/2"



5/8"



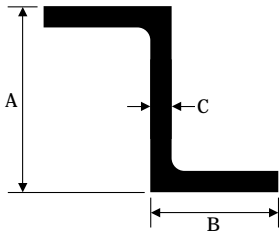
3/4"



1"



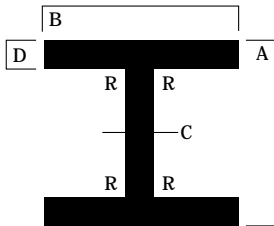
ZED SECTIONS



If the size you require is not listed, please contact us as our stock range is constantly being increased.

Imperial Size inches			Weight kg/m	Metric Size mm		
A	B	C		A	B	C
$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{16}$	.276	19.0	12.7	1.6
	$\frac{3}{4}$	$\frac{1}{8}$	.438	19.0	19.0	3.2
1	$\frac{3}{4}$	$\frac{1}{8}$	.480	25.4	19.0	3.2
$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{1}{8}$	.521	28.6	19.0	3.2
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{8}$	.500	31.8	19.0	3.2
	1	$\frac{1}{8}$	.668	31.8	25.4	3.2
$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{8}$	.603	38.1	19.0	3.2
$1\frac{3}{4}$	1	$\frac{1}{8}$.814	44.5	25.4	3.2

'I' BEAMS



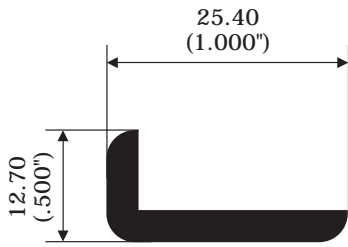
A In.	B In.	C In.	D In.	R In.	Kg/M
3	3	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	3.660
4	3	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	3.840



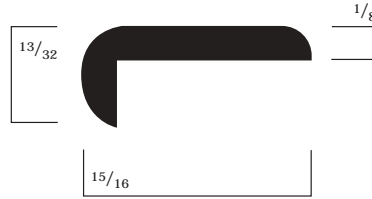
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Polishing + Fabricating
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ARCHITECTURAL SECTIONS

NOT TO SCALE



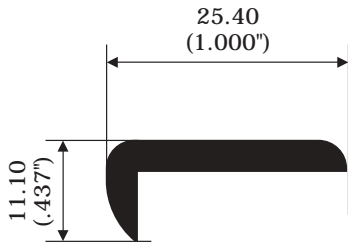
LA 201



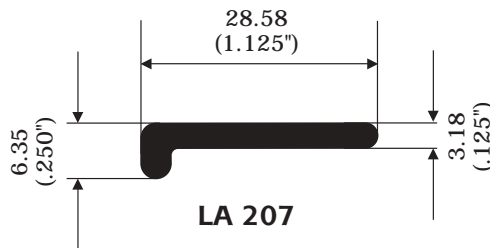
LA 206



LA 210



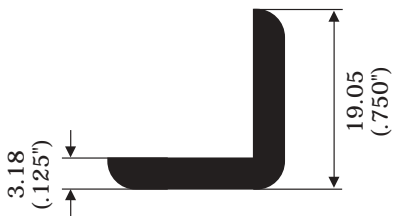
LA 203



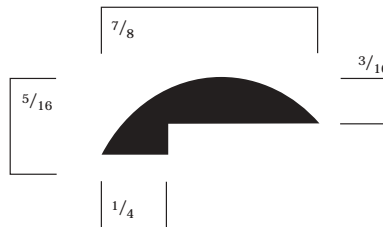
LA 207



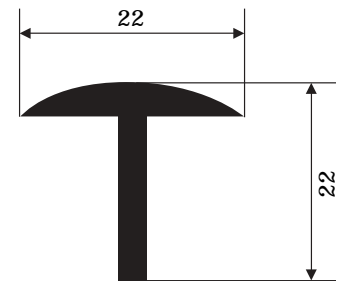
LA 211



LA 204



LA 208



LA 212



LA 205



LA 209



LA 213



MISCELLANEOUS SECTIONS

NOT TO SCALE



LA 410



LA 411



LA 412



LA 413



LA 415



LA 416



LA 418



LA 419



LA 420



LA 421



LA 425



LA 426



LA 427



LA 428



LA 429

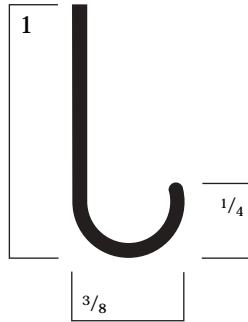


LA 430

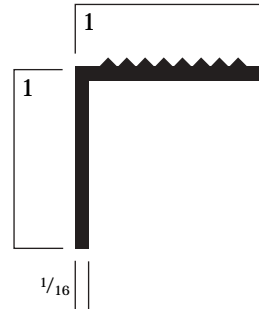


MISCELLANEOUS SECTIONS

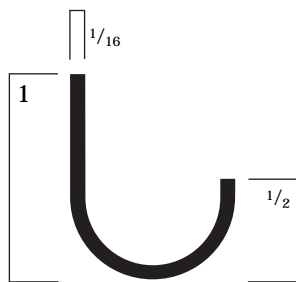
NOT TO SCALE



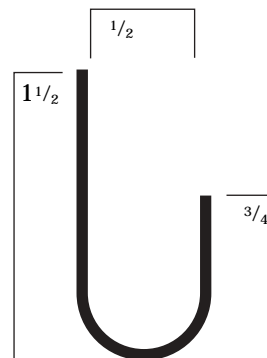
LA 301



LA 305



LA 303



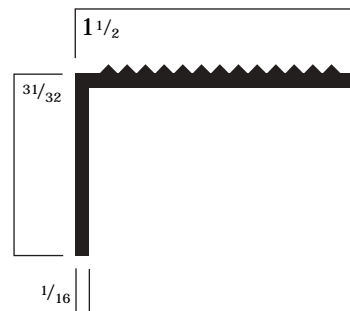
LA 311



LA 304



LA 312



LA 316



THE FINISHED PRODUCT

Why not improve the appearance of your aluminium section by taking advantage of one of our many finishing services.

Anodising

This process passes an electrical current through the aluminium to produce a protective oxide film on the surface of your section. Suitable for all good quality 6063T6 items the attractive natural matt silver finish (bronze, gold and black also available) provides extreme durability, long term resistance to the elements and is easily maintained. we always pick the best bars available to ensure the highest possible quality is delivered to the customer.

What you need to know

Jig marks are unavoidable on anodised sections, normally appearing at the very ends of the bars, these would need to be cut away if undesirable, variation in shade is not uncommon and is a natural effect of the reactive process. Due to the nature of aluminium although large surface areas can be anodised they are not always ideal as surface abrasions are harder to avoid and can sometimes be visible through the anodised surface.

Powder Coating

All products, regardless of alloy can be powder coated to vast range of british standard and ram colour finishes, with rapid turnaround of approx 7 working days (and possibly sooner if required) on the majority of colours. Powder coating provides a durable, long lasting and attractive finish suitable for both interior and exterior applications.

What you need to know

Small holes or jig marks are normally found at the very ends of sections these would need to be cut away if undesirable, when inspected closely an "orange peel" effect is occasionally visible, this is a normal characteristic of a powder coated finish.

Polishing

We are also able to offer a polishing service for many of our sections, ranging from a dull or satin finish to a highly reflective mirror finish.

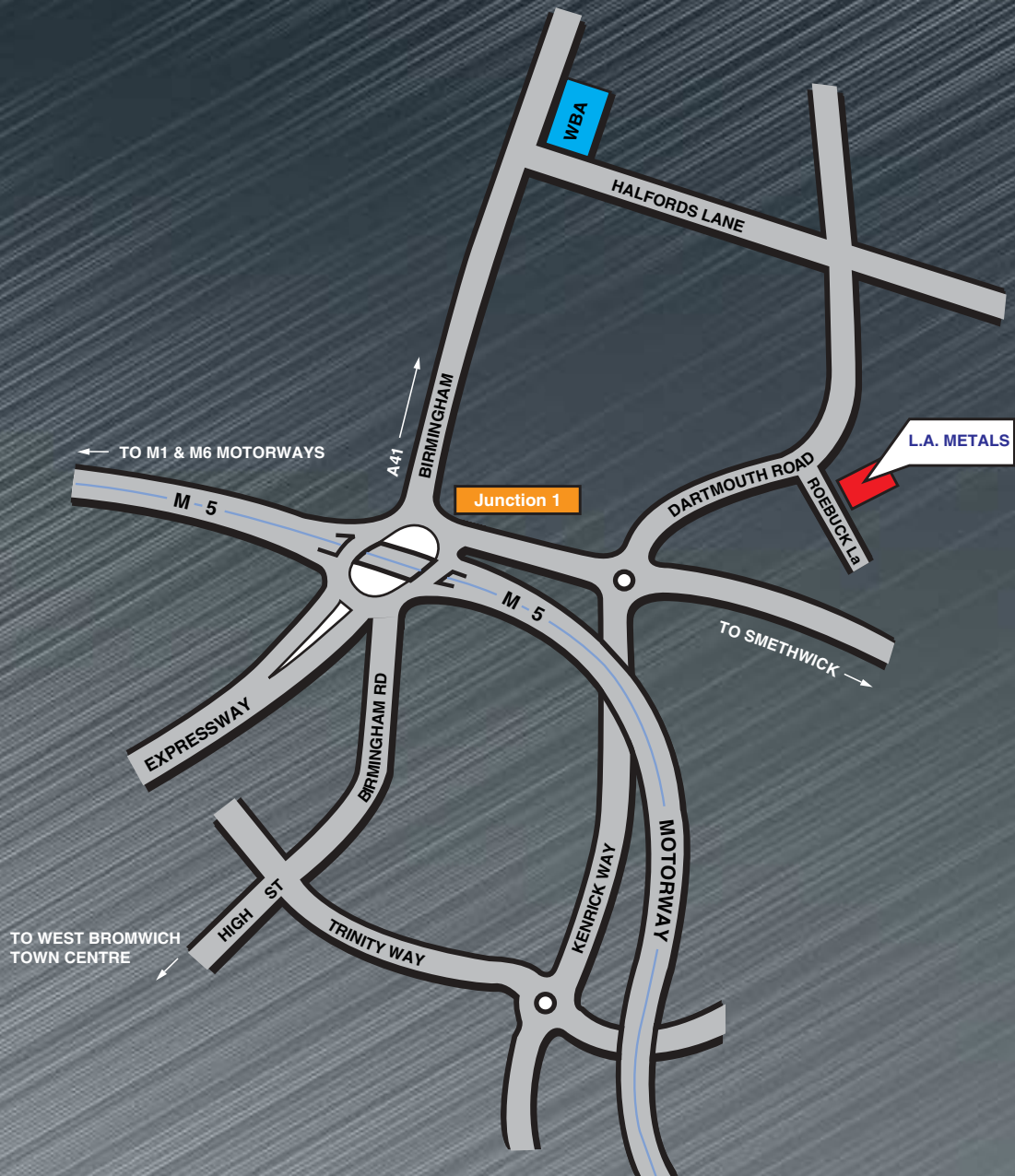
What you need to know

There are many variations on polished finishes so it's advisable to discuss your actual requirements in detail with your sales advisor. These admirable finishes are primarily decorative and are best suited to interior low traffic environments.

Fabrication

In addition to all the finishes we offer we can also cut/mitre and drill as well as producing bespoke sections to your own design.





LA

Aluminium

L.A. METALS LIMITED
ALUMINIUM EXTRUSIONS - EX STOCK

Specialising in
ANODISED SECTIONS • CUTTING • DRILLING • FABRICATING
Over 600 sizes held in stock

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CORNER OF ROEBUCK LANE & DARTMOUTH ROAD, SMETHWICK, WARLEY, WEST MIDLANDS, B66 1BY