

BRASS STANDARD STOCK

WEIGHTS

All weights shown in this publication are for guidance only. They are calculated using nominal dimensions and scientifically recognised densities. Please note that in practice, the actual weight can vary significantly from the theoretical weight due to variations in manufacturing tolerances and composition.

THICKNESS CONVERSIONS

SWG	inches	mm
26	0.013	0.457
24	0.022	0.559
22	0.024	0.711
20	0.036	0.914
18	0.043	1.22
16	0.054	1.59
14	0.063	2.03
12	0.104	2.64
10	0.125	3.18
8	0.188	4.76
6	0.250	6.35
4	0.375	9.52

aalco make a delivery every 20 seconds of the working day to one of its 30,000 customers.

aalco has 10,000 standard stock items in its range of aluminium, stainless steel, copper, brass and bronze available through all its 18 UK branches. Covered here are the most commonly used brass items. All of these items are in stock at all times.

All items can be supplied in standard sizes or cut to your instructions. **aalco** has made major investments in a wide range of advanced processing equipment including CNC controlled lathe, mills and plate saws as well as guillotining and profiling.

For a quotation, for further information, or to place an order contact your local **aalco** branch shown on the back cover.

Alloy	Hardness	0.2% Proof Stress MPa	Tensile Strength MPa	Elongation %
C102	10	30	70	25
C103	12	35	80	25
C104	15	40	90	25
C105	18	45	100	25

CZ108 TUBE

Half Hard
5 metre lengths

Size (in)	Weight per metre (Kg)	Size (in)	Weight per metre (Kg)
3/8 o/d x 20 swg	0.21	1 o/d x 16 swg	1.03
3/8 o/d x 18 swg	0.27	1 o/d x 10 swg	1.91
1/2 o/d x 20 swg	0.29	1 1/4 o/d x 16 swg	1.30
1/2 o/d x 18 swg	0.37	1 1/2 o/d x 18 swg	1.19
1/2 o/d x 16 swg	0.48	1 1/2 o/d x 16 swg	1.57
5/8 o/d x 20 swg	0.37	1 1/2 o/d x 10 swg	3.03
5/8 o/d x 16 swg	0.62	1 3/4 o/d x 16 swg	1.85
3/4 o/d x 16 swg	0.75	2 o/d x 20 swg	1.22
3/4 o/d x 20 swg	0.44	2 o/d x 18 swg	1.60
3/4 o/d x 18 swg	0.58	2 o/d x 16 swg	2.12
7/8 o/d x 20 swg	0.52	2 o/d x 10 swg	4.13
1 o/d x 20 swg	0.59	2 1/2 o/d x 16 swg	2.67
1 o/d x 18 swg	0.78	3 o/d x 16 swg	3.22

CZ108 SHEET

Half Hard, Mirror Polishing Quality

Size	Weight per sheet (Kg)	Size	Weight per sheet (Kg)
2m x 1m x 0.45mm*	8.00	2m x 1m x 1.6mm	27.0
4ft x 2ft x 26 swg*	2.90	8ft x 4ft x 16 swg	40.8
2m x 1m x 0.55mm*	9.30	4ft x 2ft x 16 swg	10.0
4ft x 2ft x 24 swg*	3.45	2m x 1m x 2mm	33.8
2m x 1m x 0.7mm*	11.8	8ft x 4ft x 14 swg	51.0
4ft x 2ft x 22 swg*	4.40	4ft x 2ft x 14 swg	12.6
8ft x 1m x 0.9mm*	19.0	2m x 1m x 2.5mm	15.7
2m x 1m x 0.9mm*	15.2	4ft x 2ft x 12 swg	16.7
4ft x 2ft x 20 swg	5.65	2m x 1m x 3mm	50.7
8ft x 1m x 1.2mm*	25.0	2m x 1m x 3.25mm	54.9
2m x 1m x 1.2mm*	20.3	8ft x 4ft x 10 swg	81.7
8ft x 4ft x 18 swg	30.6	4ft x 2ft x 10 swg	20.4
4ft x 2ft x 18 swg*	7.54	2m x 1m x 3/16"	80.5
8ft x 1m x 1.5mm*	31.0	2m x 1m x 1/4"	107
2m x 1m x 1.5mm*	25.3		

*Gives the best mirror polished finish.

CZ106 SHEET

70/30 Soft, Spinning Quality

Size	Weight per sheet (Kg)	Size	Weight per sheet (Kg)
2m x 1m x 0.45m	7.60	2m x 1m x 0.9m	15.2
4ft x 2ft x 26 swg	2.90	4ft x 2ft x 20 swg	5.65
2m x 1m x 0.55mm	9.30	2m x 1m x 1.2mm	20.3
4ft x 2ft x 24 swg	3.45	4ft x 2ft x 18 swg	7.54
2m x 1m x 0.7mm	11.8	2m x 1m x 1.6mm	27.0
4ft x 2ft x 22 swg	4.40	4ft x 2ft x 16 swg	10.0

CZ112 PLATE

Naval Brass

Size	Weight per plate (Kg)	Size	Weight per plate (Kg)
2.5m x 1.25m x 3mm	79.2	2.5m x 1.25m x 2.5mm	660
2.5m x 1.25m x 5mm	132	2.5m x 1.25m x 25.4mm	670
2m x 1m x 6mm	101	2.5m x 1.25m x 32mm	845
2m x 1m x 10mm	169	2.5m x 1.25m x 35mm	924
2m x 1m x 12.7mm	215	2.5m x 1.25m x 40mm	1056
2m x 1m x 16mm	270	2m x 1m x 45mm	1188
2.5m x 1.25m x 16mm	422	2m x 1m x 51mm	862
2m x 1m x 20mm	338	2m x 1m x 65mm	1098
2.5m x 1.25m x 22mm	580	2m x 1m x 76mm	1284

Can be cut to size on plate saws.

CZ120 SHEET

Hard, Engraving Quality
Supplied Mirror Polished or Mill Finished

Size	Weight per sheet (Kg)	Size	Weight per sheet (Kg)
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CZ121M ROD

Free Machining Brass
3 metre lengths

Dia (in)	Weight per metre (Kg)	Dia (in)	Weight per metre (Kg)
3mm	0.06	24 mm	3.84
1/8	0.07	25 mm	4.17
3/16	0.15	1	4.31
5/32	0.11	1 1/16	4.86
4 mm	0.11	28 mm	5.23
5 mm	0.17	1 1/8	5.45
7/32	0.21	30 mm	6.01
6 mm	0.24	1 1/16	6.07
1/4	0.27	1 1/4	6.73
7 mm	0.33	1 5/16	7.42
9/32	0.34	1 3/8	8.14
5/16	0.42	35 mm	8.18
8 mm	0.43	1 7/16	8.90
11/32	0.51	1 1/2	9.69
9 mm	0.54	40 mm	10.7
3/8	0.61	1 5/8	11.4
10 mm	0.67	1 11/16	12.3
15/32	0.95	1 3/4	13.2
7/16	0.82	1 7/8	15.1
12 mm	0.96	50 mm	16.7
1/2	1.08	2	17.2
13 mm	1.13	2 1/8	19.4
17/32	1.22	2 1/4	21.8
14 mm	1.31	60 mm	24.0
9/16	1.36	2 3/8	24.3
15 mm	1.50	2 7/16	25.7
5/8	1.63	2 1/2	26.9
16 mm	1.71	2 5/8	29.7
17 mm	1.92	2 3/4	32.6
11/16	2.04	3	38.8
18 mm	2.16	3 1/4	45.5
3/4	2.42	3 1/2	52.8
20 mm	2.67	4	68.9
13/16	2.84	4 1/2	87.2
21 mm	3.08	5	108
22 mm	3.23	5 1/2	129
7/8	3.30	6	155
15/16	3.79	7	210

CZ131 ROD

Riveting Quality Brass
3 metre lengths

Dia (in)	Weight per metre (Kg)	Dia (in)	Weight per metre (Kg)
3/16	0.15	5/8	1.68
1/4	0.27	3/4	2.42
5/16	0.42	7/8	3.30
3/8	0.61	1	4.31
1/2	1.08		

CZ132 ROD

Dezincification Resistant Brass
3 metre lengths

Dia (in)	Weight per metre (Kg)	Dia (in)	Weight per metre (Kg)
1/2	1.08	1 1/4	6.73
9/16	1.36	1 3/8	8.14
5/8	1.68	1 7/16	8.90
3/4	2.42	1 1/2	9.69
7/8	3.30	1 5/16	10.4
1	4.31	1 5/8	11.4
1 1/16	4.86	1 3/4	15.1
1 1/8	5.45	2	17.2

CZ114M ROD

High Tensile Brass/Manganese Bronze
3 metre lengths

Dia (in)	Weight per metre (Kg)	Dia (in)	Weight per metre (Kg)
3/8	0.61	1 5/8	11.4
1/2	1.08	1 3/4	13.2
5/8	1.68	2	17.2
3/4	2.42	2 1/8	19.4
7/8	3.30	2 1/4	21.8
1	4.31	2 1/2	26.9
1 1/8	5.45	2 3/4	32.6
1 1/4	6.73	3	38.8
1 3/8	8.14	3 1/4	45.5
1 1/2	9.69	4	68.9

CZ112 ROD

Naval Brass
3 metre lengths

Dia (in)	Weight per metre (Kg)	Dia (in)	Weight per metre (Kg)
1/2	1.08	2	17.2
3/4	2.42	2 1/2	26.9
1	4.31	3	38.8
1 1/4	6.73	4	68.9
1 1/2	9.69		

Bars over 3 inches in diameter may vary in length.

CZ121M HEXAGON

Free Machining Brass
3 metre lengths

Size AF (in)	Weight per metre (Kg)	Size AF (in)	Weight per metre (Kg)
0.24 AF	0.29	22 mm	3.56
1/4	0.30	7/8	3.69
7 mm	0.36	0.92	4.02
5/16	0.46	15/16	4.17
8 mm	0.47	24 mm	4.24
0.32	0.50	1	4.75
3/8	0.67	1.01	4.84
10 mm	0.74	1 1/16	5.36
0.41	0.81	1.1	5.76
0.44	0.94	1 1/8	6.01
7/16	0.91	30 mm	6.63
12 mm	1.06	1.2	6.84
1/2	1.19	1 1/4	7.42
13 mm	1.24	32 mm	7.54
0.52	1.31	1.3	8.03
14 mm	1.44	1 1/16	8.29
9/16	1.50	1 1/8	8.98
15 mm	1.65	36 mm	9.54
0.60	1.71	1.48	10.4
5/8	1.86	1 1/2	10.7
17 mm	2.13	1 5/8	12.5
1 1/16	2.24	1.67	13.2
18 mm	2.37	1 3/4	14.5
0.71	2.39	1.86	16.4
19 mm	2.66	2.05	19.9
3/4	2.67	2.2	23.0
20 mm	2.94	2 1/2	29.7
1 1/16	3.14	2 3/4	35.9
0.82	3.19		

CZ121M SQUARE

Free Machining Brass
3 metre lengths

Size (in)	Weight per metre (Kg)	Size (in)	Weight per metre (Kg)
3/16	0.19	7/8	4.20
1/4	0.34	1	5.48
5/16	0.54	1 1/4	8.57
3/8	0.77	1 1/2	12.3
7/16	1.05	1 3/4	16.8
1/2	1.37	2	21.9
5/8	2.14	3	49.4
3/4	3.08		

CZ121 FLAT BAR

Free Machining Brass
12 foot lengths

Size (in)	Weight per metre (Kg)	Size (in)	Weight per metre (Kg)
3/8 x 1/8	0.26	1 1/2 x 5/8	5.15
3/8 x 3/16	0.38	1 1/2 x 3/4	6.11
3/8 x 1/4	0.52	1 1/2 x 1	8.23
3/8 x 5/16	0.63	1 3/4 x 1/2	4.75
1/2 x 1/8	0.34	2 x 1/8	1.37
1/2 x 3/16	0.50	2 x 3/16	2.06
1/2 x 1/4	0.69	2 x 1/4	2.74
1/2 x 5/16	0.83	2 x 3/8	4.11
1/2 x 3/8	1.03	2 x 1/2	5.48
5/8 x 1/8	0.43	2 x 5/8	6.79
5/8 x 1/4	0.86	2 x 3/4	8.17
5/8 x 3/8	1.29	2 x 1	11.0
5/8 x 1/2	1.71	2 x 1 1/2	16.3
3/4 x 1/8	0.51	2 1/2 x 1/8	1.71
3/4 x 3/16	0.77	2 1/2 x 1/4	3.43
3/4 x 1/4	1.03	2 1/2 x 3/8	5.08
3/4 x 5/16	1.28	2 1/2 x 1/2	6.86
3/4 x 3/8	1.54	2 1/2 x 1	13.6
3/4 x 1/2	2.06	2 1/2 x 1 1/2	20.3
3/4 x 5/8	2.55	3 x 1/8	2.06
1 x 1/8	0.69	3 x 1/4	4.11
1 x 3/16	1.03	3 x 3/8	6.17
1 x 1/4	1.37	3 x 1/2	8.23
1 x 5/16	1.72	3 x 5/8	10.2
1 x 3/8	2.06	3 x 3/4	12.2
1 x 1/2	2.74	3 x 1	16.5
1 x 5/8	3.45	3 x 1 1/2	24.7
1 x 3/4	4.11	3 x 2	32.9
1 1/4 x 1/8	0.85	4 x 1/8	2.74
1 1/4 x 1/4	1.71	4 x 1/4	5.48
1 1/4 x 1/2	3.43	4 x 3/8	8.17
1 1/4 x 1	6.85	4 x 1/2	11.0
1 1/4 x 1 1/8	1.03	4 x 5/8	13.6
1 1/2 x 3/16	1.54	4 x 3/4	16.3
1 1/2 x 1/4	2.06	4 x 1	21.9
1 1/2 x 3/8	3.08	4 x 1 1/2	32.7
1 1/2 x 1/2	4.11	4 x 2	43.9

CZ130 ANGLE

12 foot lengths

Size (in)	Weight per metre (Kg)	Size (in)	Weight per metre (Kg)
1/2 x 1/2 x 1/16	0.30	1 1/2 x 1 1/2 x 1/8	1.97
3/4 x 3/4 x 1/8	0.94	1 1/2 x 1 1/2 x 3/16	2.89
1 x 1 x 1/16	0.63	1 1/2 x 1 1/2 x 1/4	3.77
1 x 1 x 1/8	1.29	2 x 2 x 1/8	2.66
1 1/4 x 1 1/4 x 1/8	1.63	2 x 2 x 1/4	5.14