

# 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 compositions.

## 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  | 0.060  | 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  |

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**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.

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| 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           |

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## CZ108 TUBE

Half Hard  
5 metre lengths

| Size<br>(in)     | Weight<br>per metre (Kg) | Size<br>(in)       | Weight<br>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<br>per sheet (Kg) | Size               | Weight<br>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.

## CZ120 SHEET

Hard, Engraving Quality  
Supplied Mirror Polished or Mill Finished

| Size | Weight<br>per sheet (Kg) | Size | Weight<br>per sheet (Kg) |
|------|--------------------------|------|--------------------------|
|------|--------------------------|------|--------------------------|

## CZ106 SHEET

70/30 Soft, Spinning Quality

| Size               | Weight<br>per sheet (Kg) | Size               | Weight<br>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<br>per plate (Kg) | Size                  | Weight<br>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.

## CZ121M ROD

Free Machining Brass  
3 metre lengths

| Dia<br>(in) | Weight<br>per metre (Kg) | Dia<br>(in) | Weight<br>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 3/16      | 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<br>(in) | Weight<br>per metre (Kg) | Dia<br>(in) | Weight<br>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<br>(in) | Weight<br>per metre (Kg) | Dia<br>(in) | Weight<br>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<br>(in) | Weight<br>per metre (Kg) | Dia<br>(in) | Weight<br>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<br>(in) | Weight<br>per metre (Kg) | Dia<br>(in) | Weight<br>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<br>(in) | Weight<br>per metre (Kg) | Size AF<br>(in) | Weight<br>per metre (Kg) |
|-----------------|--------------------------|-----------------|--------------------------|
| 0.24 AF         | 0.29                     | 22 mm           | 3.56                     |
| ¼               | 0.30                     | ⅞               | 3.69                     |
| 7 mm            | 0.36                     | 0.92            | 4.02                     |
| ⅝               | 0.46                     | 1⅝              | 4.17                     |
| 8 mm            | 0.47                     | 24 mm           | 4.24                     |
| 0.32            | 0.50                     | 1               | 4.75                     |
| ⅜               | 0.67                     | 1.01            | 4.84                     |
| 10 mm           | 0.74                     | 1⅞              | 5.36                     |
| 0.41            | 0.81                     | 1.1             | 5.76                     |
| 0.44            | 0.94                     | 1⅞              | 6.01                     |
| ⅞               | 0.91                     | 30 mm           | 6.63                     |
| 12 mm           | 1.06                     | 1.2             | 6.84                     |
| ½               | 1.19                     | 1¼              | 7.42                     |
| 13 mm           | 1.24                     | 32 mm           | 7.54                     |
| 0.52            | 1.31                     | 1.3             | 8.03                     |
| 14 mm           | 1.44                     | 1⅝              | 8.29                     |
| ⅞               | 1.50                     | 1⅞              | 8.98                     |
| 15 mm           | 1.65                     | 36 mm           | 9.54                     |
| 0.60            | 1.71                     | 1.48            | 10.4                     |
| ⅝               | 1.86                     | 1½              | 10.7                     |
| 17 mm           | 2.13                     | 1⅞              | 12.5                     |
| 1⅞              | 2.24                     | 1.67            | 13.2                     |
| 18 mm           | 2.37                     | 1¾              | 14.5                     |
| 0.71            | 2.39                     | 1.86            | 16.4                     |
| 19 mm           | 2.66                     | 2.05            | 19.9                     |
| ¾               | 2.67                     | 2.2             | 23.0                     |
| 20 mm           | 2.94                     | 2½              | 29.7                     |
| 1⅞              | 3.14                     | 2¾              | 35.9                     |
| 0.82            | 3.19                     |                 |                          |

## CZ121M SQUARE

Free Machining Brass  
3 metre lengths

| Size<br>(in) | Weight<br>per metre (Kg) | Size<br>(in) | Weight<br>per metre (Kg) |
|--------------|--------------------------|--------------|--------------------------|
| ⅝            | 0.19                     | ⅞            | 4.20                     |
| ¼            | 0.34                     | 1            | 5.48                     |
| ⅝            | 0.54                     | 1¼           | 8.57                     |
| ⅜            | 0.77                     | 1½           | 12.3                     |
| ⅞            | 1.05                     | 1¾           | 16.8                     |
| ½            | 1.37                     | 2            | 21.9                     |
| ⅝            | 2.14                     | 3            | 49.4                     |
| ¾            | 3.08                     |              |                          |

## CZ121 FLAT BAR

Free Machining Brass  
12 foot lengths

| Size<br>(in) | Weight<br>per metre (Kg) | Size<br>(in) | Weight<br>per metre (Kg) |
|--------------|--------------------------|--------------|--------------------------|
| ⅜ x ⅜        | 0.26                     | 1½ x ⅝       | 5.15                     |
| ⅜ x ⅜        | 0.38                     | 1½ x ¾       | 6.11                     |
| ⅜ x ¼        | 0.52                     | 1½ x 1       | 8.23                     |
| ⅜ x ⅝        | 0.63                     | 1¾ x ½       | 4.75                     |
| ½ x ⅜        | 0.34                     | 2 x ⅜        | 1.37                     |
| ½ x ⅜        | 0.50                     | 2 x ⅜        | 2.06                     |
| ½ x ¼        | 0.69                     | 2 x ¼        | 2.74                     |
| ½ x ⅝        | 0.83                     | 2 x ⅜        | 4.11                     |
| ½ x ⅜        | 1.03                     | 2 x ½        | 5.48                     |
| ⅝ x ⅜        | 0.43                     | 2 x ⅝        | 6.79                     |
| ⅝ x ¼        | 0.86                     | 2 x ¾        | 8.17                     |
| ⅝ x ⅜        | 1.29                     | 2 x 1        | 11.0                     |
| ⅝ x ½        | 1.71                     | 2 x 1½       | 16.3                     |
| ¾ x ⅜        | 0.51                     | 2½ x ⅜       | 1.71                     |
| ¾ x ⅜        | 0.77                     | 2½ x ¼       | 3.43                     |
| ¾ x ¼        | 1.03                     | 2½ x ⅜       | 5.08                     |
| ¾ x ⅝        | 1.28                     | 2½ x ½       | 6.86                     |
| ¾ x ⅜        | 1.54                     | 2½ x 1       | 13.6                     |
| ¾ x ½        | 2.06                     | 2½ x 1½      | 20.3                     |
| ¾ x ⅝        | 2.55                     | 3 x ⅜        | 2.06                     |
| 1 x ⅜        | 0.69                     | 3 x ¼        | 4.11                     |
| 1 x ⅜        | 1.03                     | 3 x ⅜        | 6.17                     |
| 1 x ¼        | 1.37                     | 3 x ½        | 8.23                     |
| 1 x ⅝        | 1.72                     | 3 x ⅝        | 10.2                     |
| 1 x ⅜        | 2.06                     | 3 x ¾        | 12.2                     |
| 1 x ½        | 2.74                     | 3 x 1        | 16.5                     |
| 1 x ⅝        | 3.45                     | 3 x 1½       | 24.7                     |
| 1 x ¾        | 4.11                     | 3 x 2        | 32.9                     |
| 1¼ x ⅜       | 0.85                     | 4 x ⅜        | 2.74                     |
| 1¼ x ¼       | 1.71                     | 4 x ¼        | 5.48                     |
| 1¼ x ½       | 3.43                     | 4 x ⅜        | 8.17                     |
| 1¼ x 1       | 6.85                     | 4 x ½        | 11.0                     |
| 1¼ x ⅜       | 1.03                     | 4 x ⅝        | 13.6                     |
| 1½ x ⅜       | 1.54                     | 4 x ¾        | 16.3                     |
| 1½ x ¼       | 2.06                     | 4 x 1        | 21.9                     |
| 1½ x ⅜       | 3.08                     | 4 x 1½       | 32.7                     |
| 1½ x ½       | 4.11                     | 4 x 2        | 43.9                     |

## CZ130 ANGLE

12 foot lengths

| Size<br>(in) | Weight<br>per metre (Kg) | Size<br>(in) | Weight<br>per metre (Kg) |
|--------------|--------------------------|--------------|--------------------------|
| ½ x ½ x ⅝    | 0.30                     | 1½ x 1½ x ⅝  | 1.97                     |
| ¾ x ¾ x ⅝    | 0.94                     | 1½ x 1½ x ⅜  | 2.89                     |
| 1 x 1 x ⅝    | 0.63                     | 1½ x 1½ x ¼  | 3.77                     |
| 1 x 1 x ⅜    | 1.29                     | 2 x 2 x ⅝    | 2.66                     |
| 1¼ x 1¼ x ⅝  | 1.63                     | 2 x 2 x ¼    | 5.14                     |