



## Alloy Guide: Brass

The South East's Premier Stainless Steel, Aluminium and Brass Stockholder and Processor











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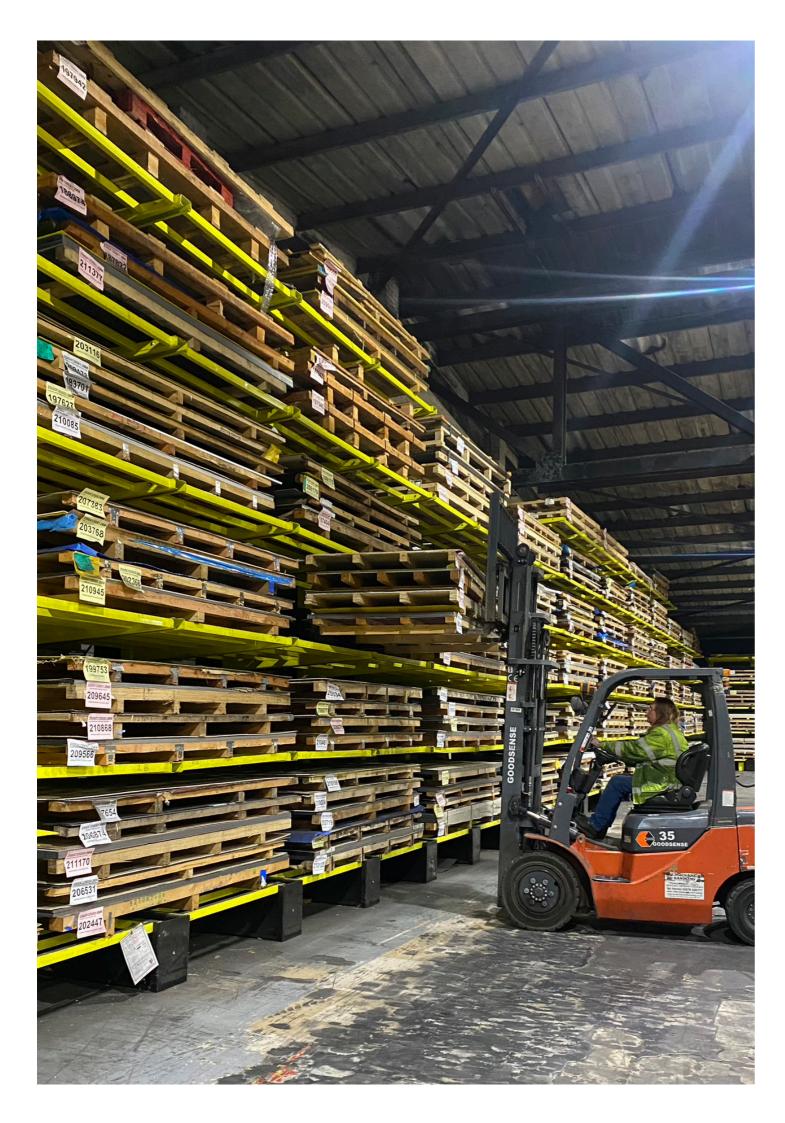












# Welcome to Orion Alloys Ltd

Orion Alloys is the South East's premier stainless steel, brass and aluminium stockist. We are a family-owned business based in Harlow, Essex, with over 100 years of experience between us. Our company has grown to become one of the largest stockholders of stainless steel, aluminium and brass in the South East of England.

Our company was founded in 1991 by John Halford who has over 50 years of experience in the industry. Since then, we have been committed to providing a friendly and reliable service to our customers. We have invested heavily in recent years in two fully automated sheet polishing lines, plate and bar section polishing equipment, and cutting machinery for bar, hollow section, and sheet. We have also increased our warehouse capacity to over 70,000 square feet to be able to keep sufficient stock and buy and sell competitively. This has enabled us to increase our range of products significantly.

We operate our own fleet of modern trucks delivering to the South East of England.

### ISO 9001 Certified

Our ISO 9001 certification from NQA demonstrates our commitment to the highest industry standards. This internationally recognised standard ensures streamlined processes, rigorous quality control, and continuous improvement. At Orion Alloys, ISO 9001 means efficient operations, scheduled deliveries, and a customer-focused approach. Clients benefit from our dedication to excellence, providing assurance that they are partnering with a reliable supplier.



## About the Company

At Orion Alloys Ltd, we take pride in being the sole stockist in the South East of England equipped with two fully automated sheet polishing production lines. Our commitment to cutting-edge technology allows us to satin polish stainless steel, brass, and aluminium sheets up to 6mm in thickness, with a maximum width of 1500mm. What sets us apart is our extensive stock of polished sheets, readily available for immediate despatch, and bespoke or special orders processed and turned around within 1-2 days.

In-house, we possess the capability to bespoke satin polish stainless steel, brass, and aluminium lengths, as well as hollow sections. Offering a range of different grained finishes tailored to meet our customers' specific requirements, we take pride in providing the fastest lead times compared to other stockists in the South East of England.

With our fast cutting service for lengths and hollow sections, along with our in-house guillotine capable of shearing sheet up to 1500mm wide, we ensure that your requirements are met promptly and efficiently.

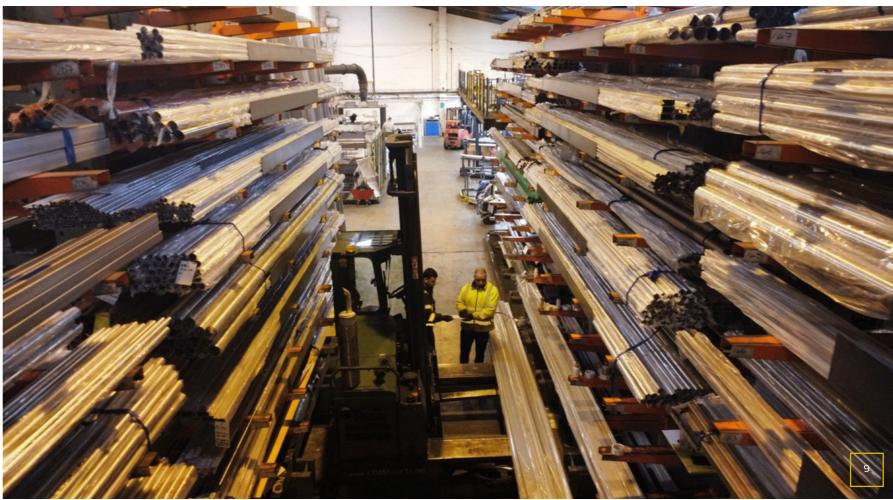
## A Comprehensive Inventory

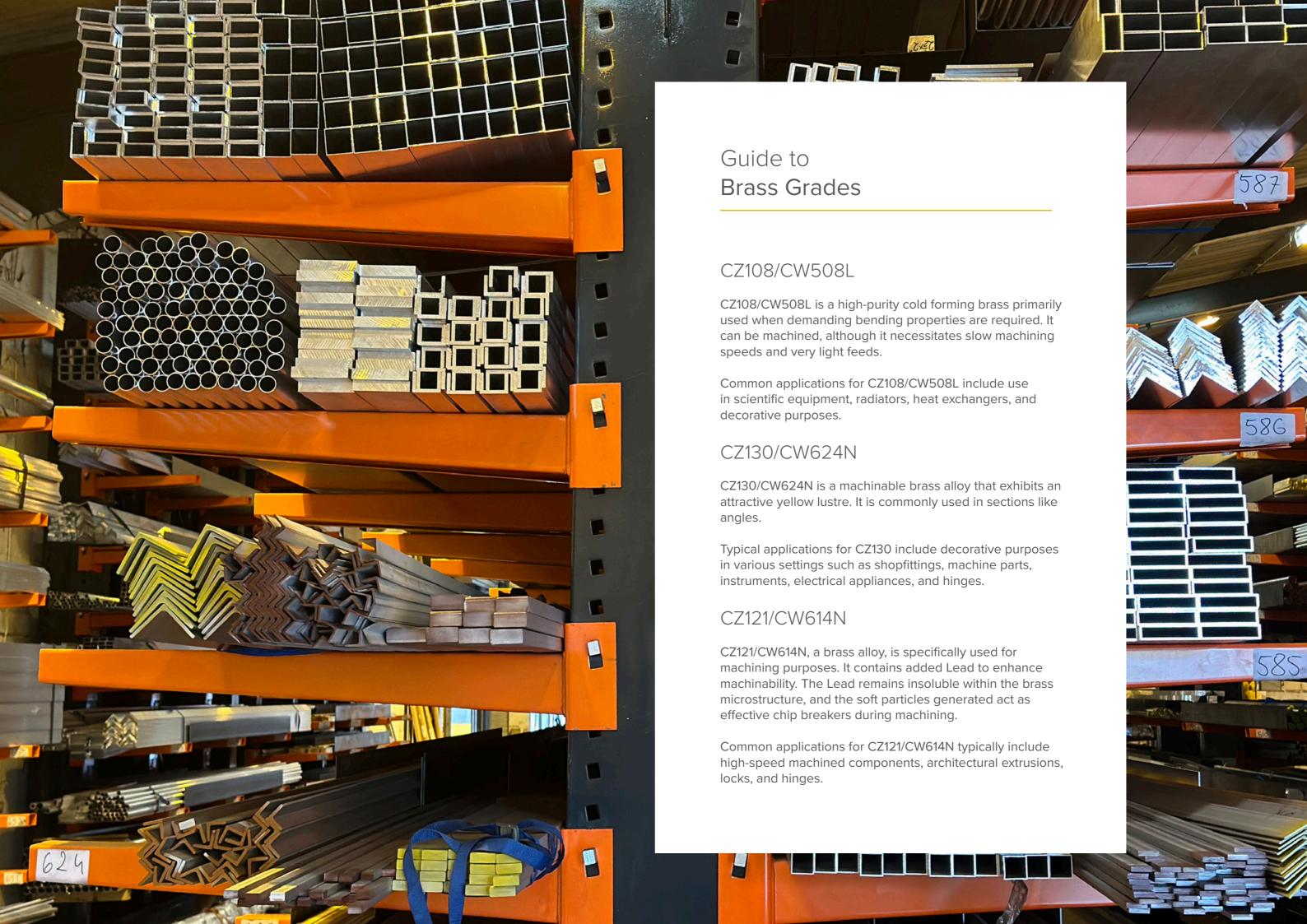
Our Essex-based facility houses a comprehensive inventory, including a full range of mirror-polished sheets up to 1500mm wide and 3mm thick. Additionally, we keep circle-polished sheets ex-stock, providing our customers with a diverse selection to meet various project specifications.

## Convenient Logistics

At Orion Alloys Ltd, we understand the importance of convenience. All our stock is readily available in Essex, welcoming same-day collections for our clients. For those who prefer scheduled deliveries, our next-day timed delivery service ensures that your materials arrive precisely when you need them.









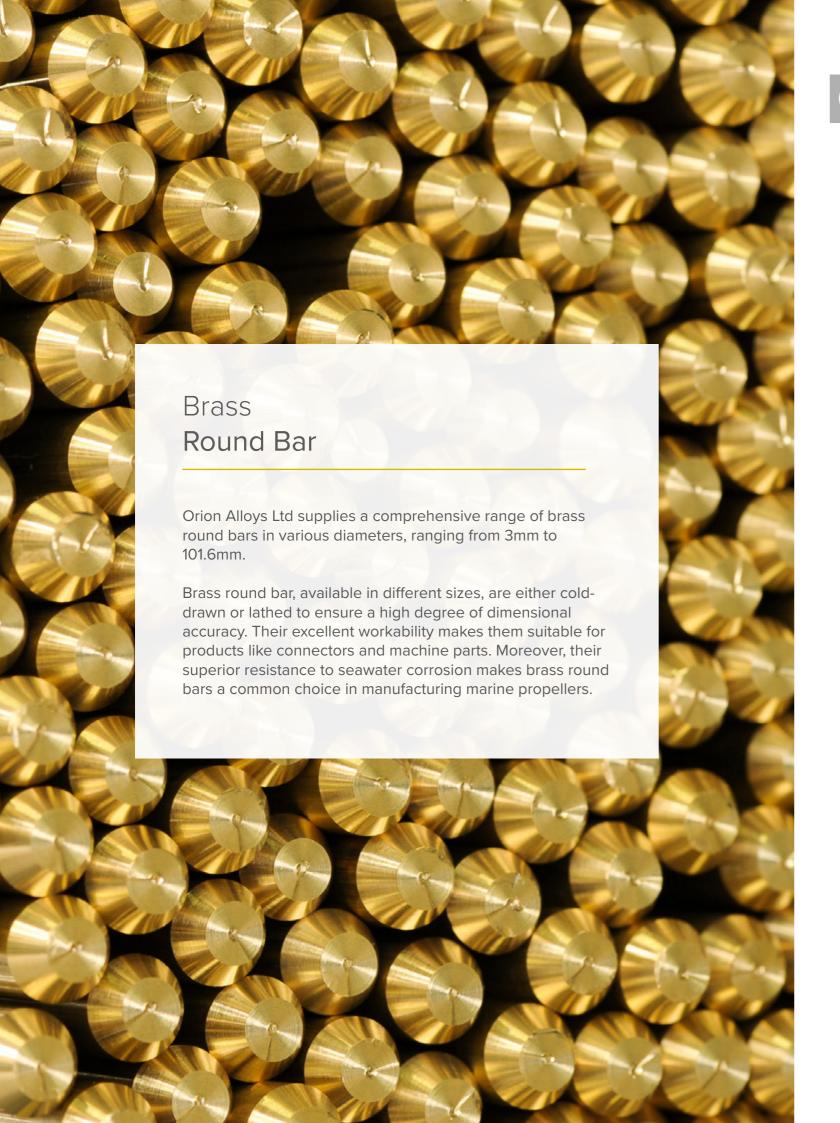
Finishes Available: Plain / Satin





Diameter	Kg/M
5/8"	1.672
16.0mm	1.713
11/16"	2.004
18.0mm	2.156
3/4"	2.412
20.0mm	2.680
22.0mm	3.229
7/8"	3.287
25.0mm	4.200
1"	4.330
27.0mm	4.810
1.1/8"	5.412
30.0mm	6.024
1.1/4"	6.660
1.5/16"	7.380
1.3/8"	8.100
35.0mm	8.140
1.1/2"	9.730
40.0mm	10.700
1.5/8"	11.416
1.3/4"	13.260

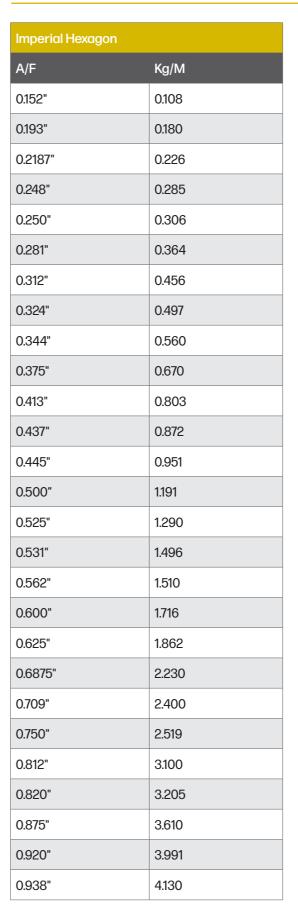
Diameter	Kg/M
1.7/8"	15.100
2"	17.300
2.1/8"	19.521
2.1/4"	21.480
2.3/8"	24.400
2.1/2"	26.570
2.9/16"	27.400
2.5/8"	29.487
2.3/4"	32.687
2.7/8"	35.310
3"	38.600
3.1/4"	45.395
3.1/2"	52.500
3.3/4"	60.400
4"	68.700



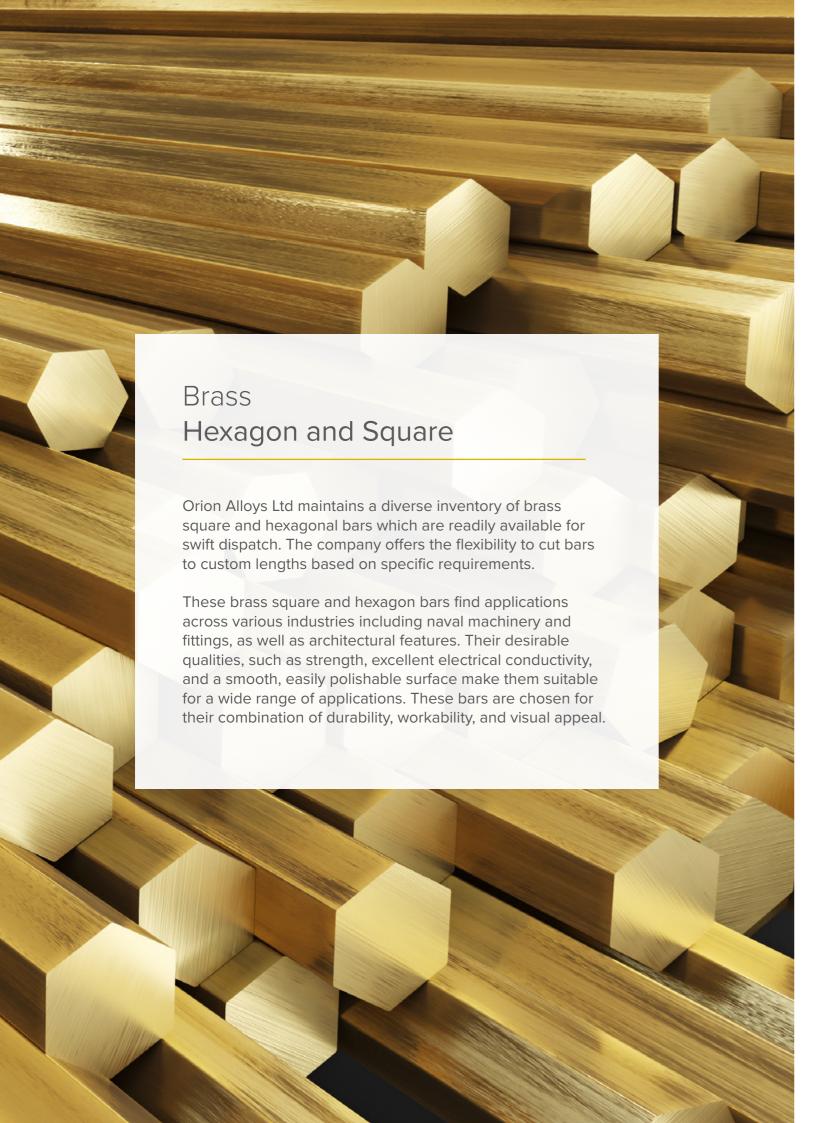


## Brass Hexagon

Finishes Available: Plain

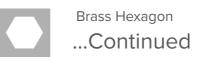


Imperial Hexagon	
A/F	Kg/M
1.390"	9.215
1.437"	9.708
1.480"	10.233
1.500"	10.723
1.625"	12.431
1.670"	13.156
1.750"	14.542
1.860"	16.410
2.00"	19.063
1.390"	9.215
1.437"	9.708
1.480"	10.233
1.500"	10.723
1.625"	12.431
1.670"	13.156
1.750"	14.542
1.860"	16.410
2.00"	19.063
2.120"	21.254
2.250"	23.780
2.375"	26.886
2.500"	29.800
2.750"	36.040
3.00"	41.860
3.250"	50.340
3.500"	59.860
4.00"	75.600





Finishes Available: Plain





Metric Hexagon	
A/F	Kg/M
4mm	0.118
5mm	0.180
7mm	0.362
8mm	0.466
9mm	0.593
10mm	0.738
11mm	0.894
12mm	1.110
13mm	1.220
14mm	1.430
15mm	1.650
16mm	1.880
17mm	2.130
18mm	2.328

Metric Hexagon	
A/F	Kg/M
19mm	2.624
20mm	2.880
21mm	3.370
22mm	3.530
24mm	4.255
27mm	5.380
29mm	6.133
30mm	6.620
32mm	7.550
36mm	9.422
41mm	12.350
46mm	15.630
50mm	18.171
65mm	33.000

## Brass Square

Finishes Available: Plain / Satin

Size	Kg/M
1/8"	0.084
4mm	0.312
3/16"	0.188
5mm	0.207
6mm	0.299
1/4"	0.335
5/16"	0.523
8mm	0.531
3/8"	0.754
10mm	0.831

Size	Kg/M
7/16"	1.026
12mm	1.196
1/2"	1.340
9/16"	1.696
5/8"	2.094
16mm	2.048
11/16"	2.533
3/4"	3.015
16mm	3.320
13/16"	3.538

Size	Kg/M
1.1/8"	6.784
7/8"	4.104
1"	5.360
1.1/4"	8.38
1.3/8"	10.13
1.1/2"	12.06
1.5/8"	14.15
1.3/4"	16.42
1.7/8"	19.20
2.3/8"	30.23

Size	Kg/M
2"	21.44
2.1/4"	27.14
2.1/2"	34.06
2.3/4"	41.20
3"	49.05
3.1/4"	57.56
3.1/2"	66.76
3.3/4"	76.64
4"	82.20





1/4" x 1/8"

1/4" x 3/16"

3/8" x 1/8"

3/8" x 1/4"

1/2" x 1/8"

1/2" x 3/16" 1/2" x 1/4"

1/2" x 5/16"

1/2" x 3/8"

5/8" x 1/8"

5/8" x 1/4"

5/8" x 3/8"

5/8" x 1/2"

3/4" x 1/8" 3/4" x 3/16"

3/4" x 1/4"

3/4" x 3/8"

3/4" x 1/2" 1" x 1/8"

1" x 3/16" 1" x 1/4"

1" x 5/16"

1" x 3/8" 1" x 1/2"

1" x 5/8" 1" x 3/4"

11/4" x 1/8" 11/4" x 3/16"

11/4" x 1/4"

11/4" x 5/16"

11/4 "x 3/8" 11/4" x 1/2"

11/4" x 5/8"

11/4" x 3/4"

11/2" x 1/8"

11/2" x 3/16"



4.26

5.09 1.03

1.53

Width x Thickness	Kg/M
11/2" x 1/4"	2.05
11/2" x 5/16"	2.54
11/2" x 3/8"	3.05
11/2" x 1/2"	4.08
11/2" x 3/4"	6.10
11/2" x 1"	8.15
13/4" x 3/16"	1.79
13/4" x 1/4"	2.38
13/4" x 3/8"	3.56
2" x 1/8"	1.37
2" x 3/16"	2.1
2" x 1/4"	2.79
2"x 5/16"	3.49
2" x 3/8"	4.06
2"x 1/2"	5.44
2" x 5/8"	6.767
2 "x 3/4"	8.375
2" x 1"	10.91
21/2" x 1/8"	1.66
21/2" x 1/4"	3.489
21/2" x 3/8"	5.234
21/2" x1/2"	6.82
21/2" x 3/4"	10.649
21/2" x 1"	13.691
3" x 1/8"	2.13
3" x 1/4"	4.127
3" x 3/8"	6.19
3" x 1/2"	8.068
3" x 1"	16.46
4" x 1/4"	5.583
4" x 3/8"	8.375
4" x 1/2"	10.66
4" x 5/8"	13.49
4" x 3/4"	16.504
4" x 1"	21.48

Finishes Available: Plain / Satin / Mirror

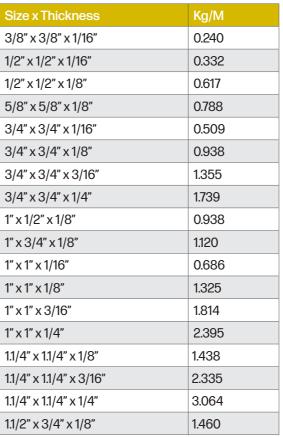


Brass Flat
Brass, known for its smooth surface, is the preferred metal for applications requiring low friction levels, including locks, gears, clocks, and ammunition. Additionally, its gold like appearance makes brass suitable for various decorative purposes. Due to its ease of cutting and machining, brass flat bars are widely utilised in model making and the production of wear strips for diverse industries.
Orion Alloys Ltd offers brass flat bar with dimensions ranging from 1/4" to 4" in width and 1/8" to 1" in thickness. With a substantial inventory Orion Alloys Ltd is well equipped to supply quality brass bars at competitive prices, meeting the most demanding delivery schedules.



## Brass Angle





Size x Thickness	Kg/M
1.1/2" x 1" x 1/4"	3.074
1.1/2" x 1.1/2" x 1/8"	2.024
1.1/2" x 1.1/2" x 3/16"	2.857
1.1/2" x 1.1/2" x 1/4"	3.765
1.3/4" x 1.3/4" x 1/4"	4.464
2" x 1" x 3/16"	2.916
2" x 1" x 1/8"	1.980
2" x 1" x 1/4"	3.795
2" x 1.1/2" x 1/4"	4.441
2"x 2" x 1/8"	2.722
2" x 2" x 3/16"	3.897
2" x 2" x 1/4"	5.117
2.1/2" x 2.1/2" x 1/8"	3.200
2" x 2" x 3/8"	7.540
3" x 2" x 1/4"	6.500
3" x 3" x 1/4"	7.737
4" x 2" x 1/4"	7.737



Brass

Angles, Channels and Tee Sections

We supply brass lengths from stock in various special

construction, and shop-fitting industries. Brass angle

minimising handling and machining costs.

is commonly used for decorative trims such as frames,

profiles, including angle, tee, and channel. The materials

make these products popular choices in the architectural,

with both equal and unequal sides. Brass channel is ideal

for edging wood or glass panels, and its U-section shape makes it suitable for door or window tracks, with larger sizes available for heavy-duty construction. Brass tee is well-suited for framework production, suspended ceilings, floor joints, cover strips, and various joining strip applications. Orion Alloys Ltd can supply most brass angle, tee, and channel in specific lengths to suit your needs, reducing waste and

strength, ease of workability, and smooth, polishable surface

windows, brackets, and stair treads, available in various sizes

## **Brass Channel**

Finishes Available: Plain / Satin / Mirrored

Size x Thickness	Kg/M
3/8" x 3/8" x 1/16"	0.378
1/2" x 1/2" x 1/16"	0.505
1/2" x 1/2" x 1/8"	0.846
5/8" x 5/8" x 1/16"	0.560
5/8" x 5/8" x 1/8"	1.095

Size x Thickne	ss	Kg/M
3/4" x 3/4" x 1/1	6"	0.783
3/4" x 3/4" x 1/8	3"	1.330
1" x 1" x 1/16"		0.980
1" x 1" x 1/8"		1.860



#### **Brass Tee**

Finishes Available: Plain / Satin / Mirrored

Size x Thickness Base x Legs	Kg/M
1/2" x 1/2" x 1/16"	0.330
1/2" x 1/2" x 1/8"	0.610
5/8" x 5/8" x 1/8"	0.770
3/4" x 3/4" x 1/16"	0.489
3/4" x 3/4" x 1/8"	0.951
3/4" x 3/4" x 3/16"	1.345
1" x 1/2" x 1/16"	0.404
1" x 1/2" x 1/4"	1.967

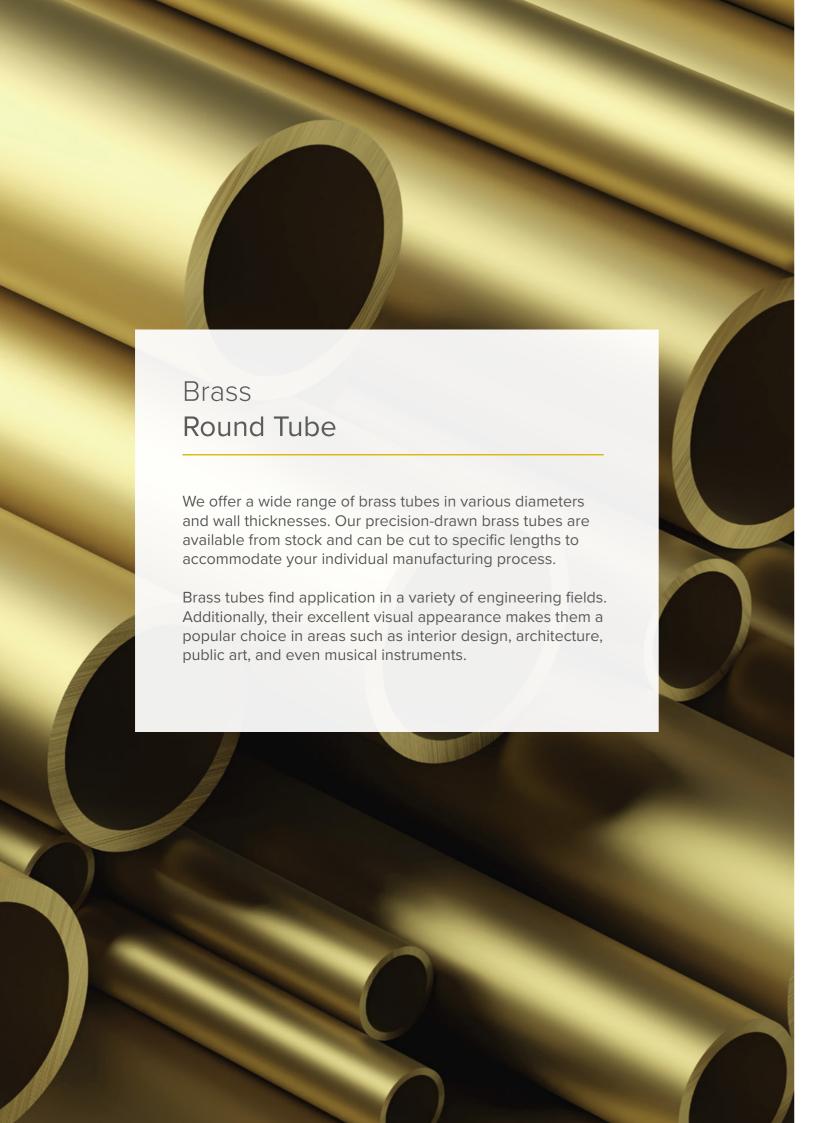
Size x Thickness Base x Legs	Kg/M
1" x 1" x 1/16"	0.656
1" x 1" x 1/8"	1.364
1" x 1" x 3/16"	1.843
1" x 1" x 1/4"	2.410
1.1/2" x 1.1/2" x 1/8"	2.024
1.1/2" x 1.1/2" x 1/4"	4.048
2" x 2" x 1/8"	2.559
2" x 2" x 1/4"	5.117



## Brass Tube



Diameter	Weight (Kg/M)
3/8" x 16swg	0.351
3/8" x 10swg	0.540
1/2" x 16swg	0.493
1/2" x 10swg	0.823
5/8" x 16swg	0.700
5/8" x 10swg	1.160
3/4" x 16swg	0.800
3/4" x 10swg	1.443
7/8" x 16swg	0.910
7/8" x 10swg	1.740
1" x 16swg	1.030
1" x 10swg	1.920
1.1/4" x 16swg	1.325
1.1/4" x 10swg	2.550
1.1/2" x 16swg	1.590
1.1/2" x 10swg	3.030
1.3/4" x 16swg	1.890
1.3/4" x 10swg	3.760
2" x 16swg	2.260
2" x 10swg	4.200
2.1/4" x 16swg	2.560
2.1/4" x 10swg	4.660
2.1/2" x 16swg	2.810
2.1/2" x 10swg	5.210
3" x 16swg	3.470
3" x 10swg	6.630

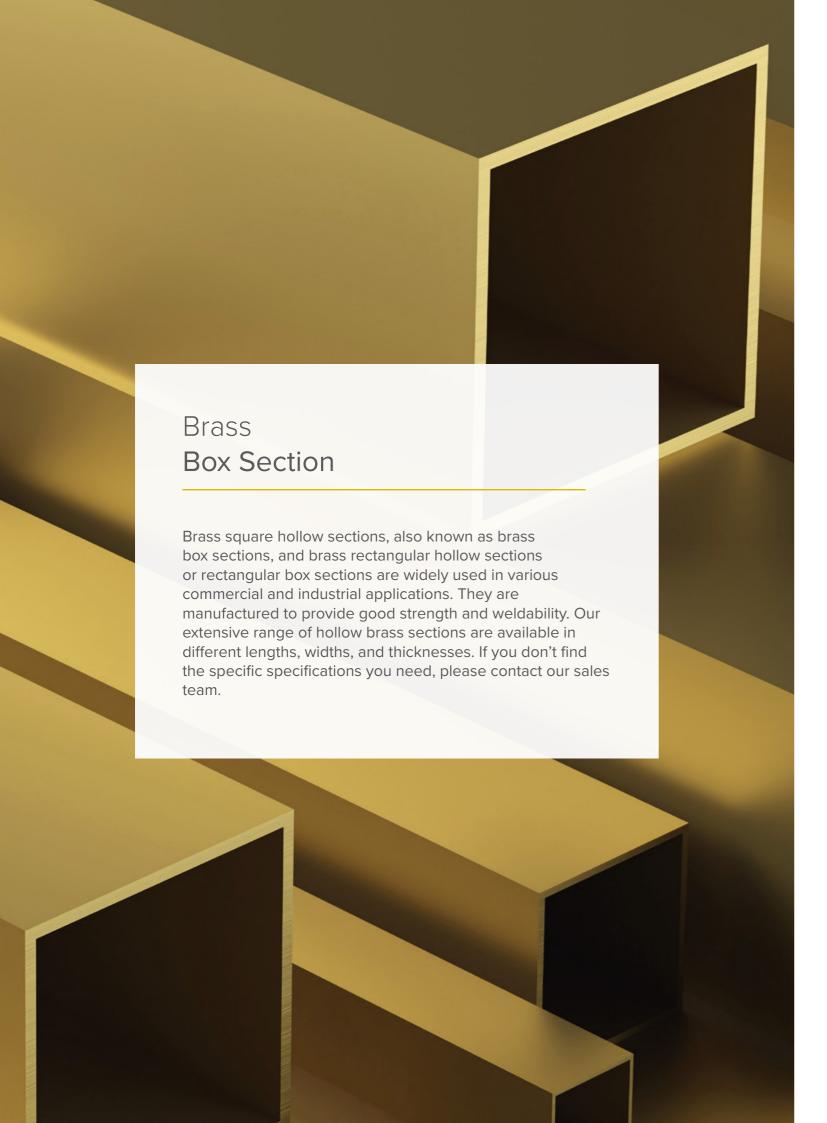




## Brass Box Sections

Finishes Available: Plain / Satin / Mirror

Size	Weight (Kg/M)
3/8" x 3/8" x 16swg	0.44
1/2" x 1/2" x 16swg	0.61
5/8" x 5/8" x 16swg	0.78
3/4" x 3/4" x 16swg	0.96
3/4" x 3/4" x 10swg	1.63
1" x 1" x 16swg	1.21
1" x 1" x 10swg	2.28
30mm x 15mm x 1.5mm	1.07
11/4" x 11/4" x 16swg	1.66
11/4" x 11/4" x 10swg	2.92
11/2" x 11/2" x 16swg	2.01
11/2" x 11/2" x I0swg	3.84
40mm x 20mm x 1.5mm	1.45
50mm x 25mm x 1.5mm	1.83
50mm x 50mm x 1.5mm	2.46
50mm x 50mm x 3.0mm	4.78

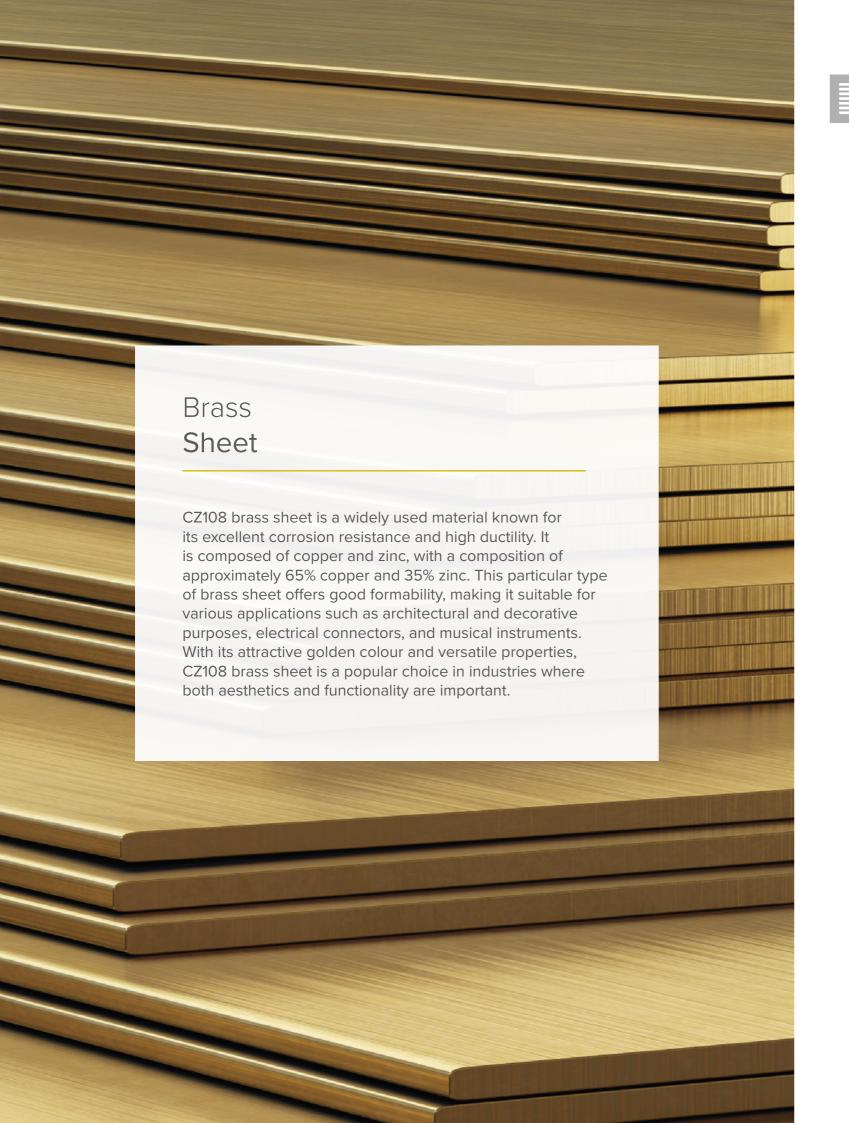




## **Brass Sheet**



Size	Weight (Kg/Sheet)
2000mm x 1000mm x 0.9mm	14.94
2000mm x 1000mm x 1.2mm	20.65
2000mm x 1000mm x 1.5mm	24.00
2000mm x 1000mm x 2mm	33.40
2000mm x 1000mm x 3mm	49.80
2440mm x 1000mm x 0.9mm	17.79
2440mm x 1000mm x 1.2mm	23.72
2440mm x 1000mm x 1.5mm	31.23
2440mm x 1220mm x 0.9mm	25.06
2440mm x 1220mm x 1.2mm	30.00
2440mm x 1220mm x 1.5mm	38.00
2440mm x 1220mm x 2mm	54.00
2440mm x 1220mm x 3mm	75.00
3000mm x 1000mm x 0.9mm	22.74
3000mm x 1000mm x 1.2mm	31.00
3000mm x 1000mm x 1.5mm	38.00
3000mm x 1000mm x 2mm	51.00







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