

Bright mild steel square bar – cold drawn squares

Product range and theoretical weights		
Across Flats		Weight (kg/m)
mm	inches	
6.00	0.236	0.28
6.35	0.250	0.32
7.94	0.313	0.49
8.00	0.315	0.50
9.53	0.375	0.71
10.00	0.394	0.78
11.11	0.437	0.97
12.00	0.472	1.13
12.70	0.500	1.27
14.29	0.563	1.60
15.87	0.625	1.98
16.00	0.630	2.01
17.46	0.687	2.39
19.05	0.750	2.85
20.00	0.787	3.14
20.64	0.813	3.34
22.23	0.875	3.88
23.81	0.937	4.45

Product range and theoretical weights		
Across Flats		Weight (kg/m)
mm	inches	
25.00	0.984	4.91
25.40	1.000	5.06
28.58	1.125	6.41
30.00	1.181	7.06
31.75	1.250	7.91
34.93	1.375	9.58
38.10	1.500	11.39
40.00	1.575	12.56
41.27	1.625	13.37
44.45	1.750	15.51
47.63	1.875	17.81
50.00	1.969	19.62
50.80	2.000	20.26
63.50	2.500	31.65
75.00	2.953	44.16
100.00	3.937	78.50
150.00	5.906	176.62

Grade: 1214



Cast Iron Unibar 400 - 15

Unibar 400-15 offers superior machinability combined with optimal impact, fatigue, electrical conductivity and magnetic permeability. Noise and vibration damping are good in this grade.

Specifications: GJS40015 and GGG40 (EN1563)

Size Range:

Round 30 mm - 450 mm Diameter
Ingot 450 mm - 757 mm Diameter
Square Up to 410 mm square
Rectangle Thickness 25 mm - 360 mm and width up to 650 mm

Chemical composition

Grade	C	Si	Mn	P	S	Pb
Min	3.40	2.30	0.10	-	-	—
Max	3.85	3.10	0.30	0.10	0.02	—

Mechanical:

UTS: 400 N/mm²

0.2%PS: 250 N/mm²

Elongation: 15% Minimum

Brinell Hardness:

Diameter	Hardness Range HB Min-Max
Up to 38 mm	190 Max
38 - 75 mm	180 Max
75 - 150 mm	180 Max
Above 150 mm	180 Max

Heat Treat Response: Unibar 400-15 is not recommended for hardening heat treatments.

Density: 7.20 g/cc