MS Angle Weight Chart

Updated 8 November 2026 · Checked against IS 808:2021, IS 2062:2011

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Size (mm)	kg per m	Per 6 m	Per 20 ft
20 × 20 × 3	0.87	5.23	5.31
25 × 25 × 3	1.11	6.64	6.75
25 × 25 × 5	1.77	10.60	10.77
30 × 30 × 3	1.34	8.05	8.18
35 × 35 × 5	2.55	15.31	15.55
40 × 40 × 5	2.94	17.66	17.95
40 × 40 × 6	3.49	20.91	21.25
45 × 45 × 5	3.34	20.02	20.34
50 × 50 × 5	3.73	22.37	22.73
50 × 50 × 6	4.43	26.56	26.99
65 × 65 × 6	5.84	35.04	35.60
65 × 65 × 8	7.66	45.97	46.71
75 × 75 × 6	6.78	40.69	41.35
75 × 75 × 8	8.92	53.51	54.36
90 × 90 × 8	10.80	64.81	65.85
100 × 100 × 10	14.91	89.49	90.92

Calculated from size and thickness with steel density 7.85. Published IS 808 values include the corner radius and are often about 0.05–0.1 kg/m higher; for example, 50 × 50 × 6 is listed as 4.5 kg/m.

Angle Weight Formula

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Weight (kg/m) = (A + B − t) × t × 0.00785
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A and B are the leg lengths and t is the thickness, all in mm.

Example: a 50 × 50 × 6 angle weighs (50 + 50 − 6) × 6 × 0.00785 = **4.43 kg/m**, or about 26.6 kg for a 6 m length.

Sources & Standards

- IS 808:2021 – Dimensions for hot rolled steel beam, column, channel and angle sections
- IS 2062:2011 – Hot rolled structural steel
- Density of mild steel: 7,850 kg/m³ (7.85 g/cm³); SS 304: 7,930 kg/m³

Weights are theoretical. Found an error? Tell us and we will fix it.