GI Flat Weight Chart

Updated 8 November 2026 · Checked against IS 1731, IS 2062:2011

GI Flat Weight Chart

Size (mm)	Bare steel kg/m	GI approx. kg/m	GI per 6 m	Meters per kg
20 × 3	0.471	0.494	2.96	2.02
25 × 3	0.589	0.617	3.70	1.62
25 × 5	0.981	1.011	6.07	0.99
25 × 6	1.177	1.208	7.25	0.83
32 × 6	1.507	1.545	9.27	0.65
40 × 5	1.570	1.615	9.69	0.62
40 × 6	1.884	1.930	11.58	0.52
50 × 5	1.962	2.018	12.11	0.50
50 × 6	2.355	2.411	14.47	0.41
50 × 8	3.140	3.198	19.19	0.31
65 × 8	4.082	4.155	24.93	0.24
75 × 8	4.710	4.793	28.76	0.21
75 × 10	5.887	5.972	35.83	0.17

"GI approx." adds a hot-dip zinc coating of about 500 g/m² on all four faces. Actual coating depends on the galvanising standard and the supplier.

GI Flat Weight Formula

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Weight (kg/m) = Width × Thickness × 0.00785 + zinc
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Zinc (kg/m) = 2 × (Width + Thickness) ÷ 1000 × coating (kg/m²). **Example:** a 25 × 3 mm GI flat: 25 × 3 × 0.00785 = 0.589 kg/m, plus 0.028 kg/m of zinc = **about 0.617 kg/m**.

GI Earthing Strip Weight

The most common earthing strips are 25 × 3, 25 × 5, 32 × 6 and 50 × 6 mm. To find how much strip you need, divide the total weight by kg per meter, or use the "meters per kg" column.

Sources & Standards

- IS 1731 – Dimensions for steel flats
- 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.