ISMC Channel Weight Chart

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

ISMC Channel Weight Chart

Section	Depth × flange (mm)	Web t (mm)	Flange t (mm)	kg per m	Per 6 m
ISMC 75	75 × 40	4.8	7.5	6.97	41.82
ISMC 100	100 × 50	5.0	7.7	9.37	56.19
ISMC 125	125 × 65	5.3	8.1	12.79	76.76
ISMC 150	150 × 75	5.7	9.0	16.50	99.02
ISMC 175	175 × 75	6.0	10.2	19.29	115.75
ISMC 200	200 × 75	6.2	11.4	22.05	132.29
ISMC 225	225 × 80	6.5	12.4	25.79	154.74
ISMC 250	250 × 80	7.2	14.1	30.25	181.47
ISMC 300	300 × 90	7.8	13.6	35.92	215.52
ISMC 350	350 × 100	8.3	13.5	42.24	253.44
ISMC 400	400 × 100	8.8	15.3	49.54	297.23

Dimensions as per IS 808. Weights are calculated from these dimensions with steel density 7.85 and ignore the corner radius and flange taper, so published IS 808 weights are slightly different (for example, ISMC 100 is listed as 9.2 kg/m in older tables and 9.56 kg/m in newer ones). Check with your supplier for billing weight.

Channel Weight Formula

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Weight (kg/m) = [H × tw + 2 × (B − tw) × tf] × 0.00785
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H is the depth, B the flange width, tw the web thickness and tf the flange thickness, all in mm.

Example: ISMC 100 (100 × 50, web 5 mm, flange 7.7 mm) = [100 × 5 + 2 × 45 × 7.7] × 0.00785 = **9.37 kg/m**.

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.