ISMB Beam Weight Chart

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

ISMB Beam Weight Chart (IS 808)

Section	kg per m	Per 6 m	Per 12 m
ISMB 100	11.5	69.0	138.0
ISMB 150	14.9	89.4	178.8
ISMB 200	25.4	152.4	304.8
ISMB 250	37.3	223.8	447.6
ISMB 300	44.2	265.2	530.4
ISMB 400	61.6	369.6	739.2
ISMB 500	86.9	521.4	1,042.8
ISMB 600	122.6	735.6	1,471.2

Weights per meter as listed for ISMB sections in IS 808 / SP 6(1). Some newer tables list slightly different figures for the smaller sizes (for example 24.2 kg/m for ISMB 200), so confirm the billing weight with your supplier. The calculator works from dimensions and ignores the root radius and flange taper, so its answer for a standard ISMB is usually a little lower than the table value.

Beam Weight Formula

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Weight (kg/m) = [2 × B × tf + (H − 2 × tf) × tw] × 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: a 200 × 100 beam with a 5.7 mm web and 10.8 mm flanges: [2 × 100 × 10.8 + 178.4 × 5.7] × 0.00785 = **24.9 kg/m**. The IS 808 value for ISMB 200 is 25.4 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.