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TMT / saria bar calculated weight chart

Estimated weight per metre, per 12 m bar and whole 12 m bars per tonne for selected IS 1786:2008 nominal diameters.

TMT / saria calculated weight for IS 1786 diameters

Diameter D (mm)	Weight (kg/m)	12 m bar (kg)	Whole 12 m bars in one tonne
6	0.222	2.663	375
8	0.395	4.735	211
10	0.617	7.398	135
12	0.888	10.654	93
16	1.578	18.940	52
20	2.466	29.593	33
25	3.853	46.239	21
28	4.834	58.002	17
32	6.313	75.758	13
36	7.990	95.882	10
40	9.864	118.372	8
45	12.485	149.815	6
50	15.413	184.957	5

Formula: W (kg/m) = D2 / 162.2
Unit: kg per metre (kg/m); kg per 12 m bar; whole bars per tonne
Last verified: 27 November 2026
Source: BIS Product Manual PM/IS 1786/4 (July 2020), Annex A, nominal size groups (https://www.bis.gov.in/wp-content/uploads/2020/07/PM-IS-1786-JULY-2020-Revised-4.pdf)
Selected nominal diameters from IS 1786:2008. Values are calculated estimates. Whole bars are rounded down from unrounded weight. Confirm availability and the applicable nominal or measured billing weight.