MS Square Pipe Weight Chart

Updated 8 November 2026 · Checked against IS 4923:2017

MS Square Pipe Weight Chart

Size (mm)	kg per m	Per 6 m	Per 20 ft
20 × 20 × 1.6	0.924	5.55	5.64
20 × 20 × 2	1.130	6.78	6.89
25 × 25 × 2	1.444	8.67	8.81
25 × 25 × 2.6	1.829	10.97	11.15
30 × 30 × 2	1.758	10.55	10.72
30 × 30 × 2.6	2.237	13.42	13.64
40 × 40 × 2	2.386	14.32	14.55
40 × 40 × 2.6	3.053	18.32	18.61
40 × 40 × 3.2	3.698	22.19	22.54
50 × 50 × 2.6	3.870	23.22	23.59
50 × 50 × 3.2	4.702	28.21	28.67
50 × 50 × 4	5.778	34.67	35.22
60 × 60 × 3.2	5.707	34.24	34.79
60 × 60 × 4	7.034	42.20	42.88
75 × 75 × 3.2	7.214	43.29	43.98
75 × 75 × 4	8.918	53.51	54.36
100 × 100 × 4	12.058	72.35	73.50
100 × 100 × 5	14.915	89.49	90.92

MS Rectangular Pipe Weight Chart

Size (mm)	kg per m	Per 6 m	Per 20 ft
40 × 20 × 1.6	1.427	8.56	8.70
40 × 20 × 2	1.758	10.55	10.72
50 × 25 × 2	2.229	13.38	13.59
50 × 25 × 2.6	2.849	17.10	17.37
60 × 40 × 2.6	3.870	23.22	23.59
60 × 40 × 3.2	4.702	28.21	28.67
80 × 40 × 2.6	4.686	28.12	28.57
80 × 40 × 3.2	5.707	34.24	34.79
100 × 50 × 3.2	7.214	43.29	43.98
100 × 50 × 4	8.918	53.51	54.36

Size (mm)	kg per m	Per 6 m	Per 20 ft
120 × 60 × 4	10.802	64.81	65.85

Calculated with steel density 7.85 and square outer corners. Real tubes have slightly rounded corners, so mill weights can be about 1–3% lower.

Square Pipe Weight Formula

```
Weight (kg/m) = [A × B − (A − 2t) × (B − 2t)] × 0.00785
```

A and B are the outside sides and t the wall thickness, all in mm. A simpler version that gives almost the same answer is **(2A + 2B − 4t) × t × 0.00785**.

Example: a 40 × 40 × 2 mm square pipe: [1600 − 36 × 36] × 0.00785 = 304 × 0.00785 = **2.39 kg/m**, or 14.3 kg for 6 m.

Sources & Standards

- IS 4923:2017 – Hollow steel sections for structural use
- 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.