# Chequered Plate Weight Chart

Updated 8 November 2026 · Checked against IS 3502, IS 2062:2011

## MS Chequered Plate Weight Chart

| Base thickness | Base weight per m² | With 5–10% pattern | 1250 × 2500 plate (base) | 1250 × 6300 plate (base) |
|---|---|---|---|---|
| 3 mm | 23.55 kg | 24.73 – 25.90 kg | 73.59 kg | 185.46 kg |
| 4 mm | 31.40 kg | 32.97 – 34.54 kg | 98.12 kg | 247.28 kg |
| 5 mm | 39.25 kg | 41.21 – 43.18 kg | 122.66 kg | 309.09 kg |
| 6 mm | 47.10 kg | 49.45 – 51.81 kg | 147.19 kg | 370.91 kg |
| 8 mm | 62.80 kg | 65.94 – 69.08 kg | 196.25 kg | 494.55 kg |
| 10 mm | 78.50 kg | 82.42 – 86.35 kg | 245.31 kg | 618.19 kg |

There is no single standard allowance for the raised pattern; it depends on the pattern and the mill. The base weight uses the plate thickness without the raised pattern. Use your supplier's published kg/m² for billing.

## Chequered Plate Weight Formula

```
Weight (kg) = Length (m) × Width (m) × Base thickness (mm) × 7.85 × (1 + pattern % ÷ 100)
```

**Example:** a 1250 × 2500 mm chequered plate with a 5 mm base: 1.25 × 2.5 × 5 × 7.85 = **122.66 kg** without pattern, or about 128.8 kg with a 5% pattern allowance.

**Sources & Standards**

- IS 3502 – Steel chequered plates
- 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.