Chequered plate weight chart

kg/m² = thickness (mm) × 7.85 + raised pattern (about 2–5 kg/m²)

Chequered plate (also called diamond plate, checker plate, tread plate or floor plate) is ordered by the thickness of the base plate. It weighs the same as plain plate of that thickness plus the raised pattern: 6 mm chequered plate is 47.1 kg/m² for the base and roughly 49.1–52.2 kg/m² in total. 1/4 inch diamond plate weighs 11.26 lb/ft².

Metric chequered plate (kg/m²)

Base thickness	Base plate kg/m²	With pattern kg/m² (approx.)	1250 × 2500 mm sheet, base (kg)	1500 × 6000 mm sheet, base (kg)
3 mm	23.55	25.5 – 28.7	73.6	212.0
4 mm	31.40	33.4 – 36.5	98.1	282.6
5 mm	39.25	41.3 – 44.4	122.7	353.3
6 mm	47.10	49.1 – 52.2	147.2	423.9
8 mm	62.80	64.8 – 67.9	196.3	565.2
10 mm	78.50	80.5 – 83.6	245.3	706.5
12 mm	94.20	96.2 – 99.3	294.4	847.8

Base plate at 7.85 g/cm³, the basis IS 3502:2009 (clause 11) uses for calculating the mass of chequered plate; thickness excludes the raised pattern. The pattern range is 2 kg/m² (typical Indian supplier charts) to 5.1 kg/m² (US floor plate below). For a 1250 × 2500 sheet the pattern adds about 6–16 kg. steelweight-calculator.com

Diamond plate (floor plate) in inch sizes (lb/ft²)

Thickness	mm	lb/ft²	kg/m²	Plain plate lb/ft²	Pattern adds lb/ft²	4 × 8 ft sheet (lb)	4 × 10 ft sheet (lb)
16 ga	1.5	3.00	14.6	2.50	0.50	96	120
14 ga	1.9	3.75	18.3	3.13	0.63	120	150
12 ga	2.7	5.25	25.6	4.38	0.88	168	210
1/8"	3.2	6.16	30.1	5.11	1.05	197	246
3/16"	4.8	8.71	42.5	7.66	1.05	279	348
1/4"	6.4	11.26	55.0	10.21	1.05	360	450
5/16"	7.9	13.81	67.4	12.76	1.05	442	552
3/8"	9.5	16.37	79.9	15.32	1.05	524	655
1/2"	12.7	21.47	104.8	20.42	1.05	687	859
5/8"	15.9	26.58	129.8	25.53	1.05	851	1,063
3/4"	19.0	31.68	154.7	30.63	1.05	1,014	1,267
1"	25.4	41.89	204.5	40.84	1.05	1,340	1,676

Floor plate weights from the Alro Steel Metals Guide (Floor Plate table). From 1/8 in up the pattern adds a constant 1.05 lb/ft² (5.1 kg/m²) to the plain plate weight of 40.84 lb/ft² per inch. Gauge plain weights are the Manufacturers' Standard Gauge nominal values.