Chequered Plate

OMEGA STEEL CO.
Istanbul · Dilovası plant

Hot-rolled tear-drop pattern chequered plate (checker plate, MS chakkar plate) in S235JR from 2 to 10 mm base thickness, widths 1 000–1 500 mm, cut sheets to 6 m, black or hot-dip galvanized, from stock in Dilovası; used for industrial flooring, stair treads, platforms, ramps, truck bodies and trailer floors.

2/3 – 10/11 mm | 1 000 – 1 500 mm wide | Sheets to 6 m | Black · HDG | Tear-drop (5-bar on request)

Tear-drop chequered plate for floors, stairs, platforms, ramps and truck bodies: 2 to 10 mm base thickness (2/3 to 10/11 with the pattern), 1 000, 1 250 and 1 500 mm wide, sheets 2–6 m, S235JR hot-rolled, black or galvanized. Cut, laser-profiled and folded into treads and kick plates on our own lines; shipped in packs for container with EN 10204 3.1.

CHEQUERED PLATE SIZES AND WEIGHT CHART

Designation	Base thickness	kg/m²	1 250 × 2 500 (kg)	1 500 × 3 000 (kg)	1 500 × 6 000 (kg)
2/3 mm	2.0	17.4	54	78	157
3/4 mm	3.0	25.3	79	114	228
4/5 mm	4.0	33.1	103	149	298
5/6 mm	5.0	41.0	128	184	369
6/7 mm	6.0	48.8	153	220	439
8/9 mm	8.0	64.5	202	290	581
10/11 mm	10.0	80.2	251	361	722

Mass per EN 10051 plus tear-drop pattern (~1.7 kg/m²). Widths 1 000 / 1 250 / 1 500 mm; lengths 2 000–6 000 mm cut to order.

LOAD CAPACITY PER SPAN

Base thickness	Span 0.5 m	Span 0.75 m	Span 1.0 m	Span 1.25 m	Span 1.5 m
3 mm	8.5	3.8	2.1	1.4	0.9
4 mm	15	6.7	3.8	2.4	1.7
5 mm	24	10.5	5.9	3.8	2.6
6 mm	34	15	8.5	5.4	3.8
8 mm	60	27	15	9.6	6.7
10 mm	94	42	24	15	10

Guide values from plate bending (deflection-governed); confirm with the project engineer for point loads and dynamic loads. Full method on our load-capacity guide.

TEAR-DROP VS FIVE-BAR PATTERN, BLACK VS GALVANIZED

Option	Description	Where
Tear-drop (lentil)	Oval raised lentils in offset rows — European standard, best drainage	Floors, ramps, treads (stock)
Five-bar (diamond)	Groups of five short bars at 90° — ASTM A786 pattern	Vehicle floors, US/Gulf specs (on request)
Black (mill)	Hot-rolled scale, to be painted	Indoor floors, painted stairs
Hot-dip galvanized	EN ISO 1461, 70–85 µm	Outdoor walkways, marine, Gulf platforms
Painted / anti-slip epoxy	Primer + top coat or grit epoxy	Visible or wet areas

CHEQUERED PLATE VS ALUMINIUM CHEQUERED PLATE VS GRATING

	Steel chequered plate	Aluminium chequered plate	Steel grating
Weight (5 mm)	41 kg/m²	14 kg/m²	25–35 kg/m²
Stiffness	High	1/3 of steel	Very high for weight
Drainage	Poor (solid)	Poor	Excellent
Corrosion	Paint or galvanize	Inherent	Galvanized
Price per m² (5 mm)	1.00	2.5–3.5	1.5–2.5
Use	Floors, ramps, trucks, treads	Vehicles, marine, decorative	Platforms, drains, catwalks

STANDARDS

EN 10025-2 (S235JR base) · EN 10051 / EN 10029 (tolerances) · ASTM A786 (rolled floor plate) · ASTM A36 equivalent · BS 4592 (industrial flooring)