ST44 Steel Plate

OMEGA STEEL CO.
Istanbul · Dilovası plant

ST44 is the DIN 17100 name of the 275 MPa structural grade now rolled as S275JR (1.0044). It sits between ST37 and ST52 — 17 % more yield than ST37 with the same weldability — and is ordered for medium-loaded beams, crane-runway stiffeners and machine bases where ST37 is marginal but ST52 is more than needed. We supply 3–40 mm plate to order from Turkish mills, cut to size in Dilovası.

= S275JR (1.0044) | Yield ≥ 275 MPa | 3–40 mm to order | S355JR substitute from stock | EN 10204 3.1

ST44 (St 44-2) survives on drawings from the 1980s and 1990s and in tenders across Iraq, Egypt and the Balkans. The plate you receive today is S275JR to EN 10025-2 — identical limits, new name. We roll or import it to order in 3–40 mm and cut it to your part list; if the schedule is tight we can substitute S355JR from stock at the same price band, which always satisfies an ST44 requirement.

CHEMICAL COMPOSITION

Element	C	Mn	P	S	N	Cu
max. % (ladle)	0.21 (≤ 40 mm)	1.50	0.035	0.035	0.012	0.55

Si not limited. CEV ≤ 0.40 up to 30 mm.

MECHANICAL PROPERTIES

Thickness	Yield ReH min (MPa)	Tensile Rm (MPa)	Elongation A min	Impact KV
≤ 16 mm	275	410–560	23 %	27 J at +20 °C
> 16–40 mm	265	410–560	23 %	27 J at +20 °C
> 40–63 mm	255	410–560	22 %	27 J at +20 °C

EQUIVALENT GRADES

System	Grade	Note
EN 10025-2	S275JR (1.0044)	identical — current name
DIN 17100	ST44-2	withdrawn
BS 4360	43B	historic UK grade
ASTM	A36 (near) / A572 Gr. 42	A572-42 = 290 MPa
JIS G3101	SS400 / SM400B	SM400B has 0 °C impact
GB/T 700	Q275B	

THICKNESS RANGE AND STOCK SIZES

Thickness	Widths × lengths	Availability
3–6 mm	1 500 × 6 000	to order (sheet from coil)
8–20 mm	1 500 / 2 000 × 6 000	to order 1–3 weeks
25–40 mm	2 000 × 6 000	to order 2–4 weeks
any	S355JR from stock as substitute	3–5 days

STANDARDS

DIN 17100 — ST44-2 (withdrawn) · EN 10025-2 — S275JR, material no. 1.0044 · EN 10029 class A tolerance · EN 10163-2 surface