Cold Rolled Steel Sheet & Coil (DKP)

OMEGA STEEL CO.
Istanbul · Dilovası plant

Cold rolled steel — DKP in Turkey, CRCA in India and the Gulf, SPCC in the Far East, CR sheet in the UK — is hot-rolled coil pickled, rolled cold to 0.30–3.0 mm, annealed and skin-passed to a smooth, flat, tightly toleranced sheet that bends, draws, welds and paints without further preparation. We stock it as full-hard and annealed coil, cut sheet 1 000–1 500 mm wide and slit strip from 20 mm, in the EN 10130 grades DC01 (general), DC03 / DC04 (drawing), DC05 / DC06 (deep drawing), matt or bright, oiled or dry, with EN 10204 3.1 certificates — and cut, slit and blank it on our own lines in Dilovası for cabinet, appliance, furniture, automotive, HVAC and drum makers from Iraq to Nigeria.

EN 10130 DC01–DC06 | 0.30–3.0 mm · 1 000–1 500 mm | Coil · sheet · slit strip | Matt (A/B) · bright · oiled | EN 10204 3.1 · HS 7209

If a part is pressed, bent, punched or painted and does not live outdoors, it starts as cold rolled sheet: cleaner, flatter and thinner than hot rolled, cheaper than galvanized, and the base of every GI and PPGI coil we sell. This page covers the whole family — forms, grades, gauges, surface and price; each grade has its own page below.

COIL, CUT SHEET, SLIT STRIP OR BLANKS — WHICH FORM TO ORDER

Form	Sizes	Best for	Lead time
Coil (annealed, skin-passed)	0.30–3.0 × 1 000 / 1 250 / 1 500 mm, ID 508 / 610, 5–25 t	roll-forming, stamping lines, decoilers	stock 3–5 days
Full-hard coil (unannealed)	0.30–2.0 mm	our galvanizing and painting partners, low-cost strapping	to order
Cut-to-length sheet	2 000 / 2 500 / 3 000 / 6 000 mm and custom, ±1 mm	press shops, cabinets, laser cutting	stock 3–5 days
Slit strip	20–600 mm wide, coils 500–3 000 kg	tube mills, profile lines, strapping, clips	5–8 days
Blanks and rectangles	sheared or laser-cut to drawing, ±0.5 mm	pressings, brackets, drum bodies	5–8 days
Skin-passed bright (B surface)	0.50–2.0 mm	chrome plating, enamelling, visible parts	to order

Sheet is supplied with paper interleaving and VCI on request; coils eye-to-sky. Our cut-to-length line handles 0.30–6 mm; the slitter 0.30–6 mm to 1 600 mm wide.

GRADES AND INTERNATIONAL EQUIVALENTS

EN 10130	Number	Old DIN	ASTM A1008	JIS G3141	BS 1449	Yield (MPa)	A80 min	r90 / n90	Use
DC01	1.0330	St 12	CS Type B	SPCC	CR4	≤ 280 (140–280)	28 %	—	bending, general pressing, painting
DC03	1.0347	St 13	DS Type B	SPCD	CR3	≤ 240	34 %	1.3 / —	drawing, non-ageing
DC04	1.0338	St 14	DDS	SPCE	CR2	≤ 210	38 %	1.6 / 0.18	deep drawing, appliances, automotive
DC05	1.0312	St 15	EDDS	SPCF	CR1	≤ 180	40 %	1.9 / 0.20	extra deep drawing
DC06	1.0873	—	EDDS+ (IF)	SPCG	—	≤ 170	38 %	1.8 / 0.22	interstitial-free, complex draws
S280GD-class CR (HSLA)	—	—	SS Gr 40 / HSLAS	SPFC 340	—	≥ 280	22 %	—	structural cold rolled, racking

Equivalents are working substitutions, not identical specifications; the certificate grade governs. Turkish mills (Erdemir, Borçelik, Tosyalı) certify to EN 10130 and often dual-certify SPCC / CS.

THICKNESS, GAUGE AND WEIGHT TABLE

mm	Gauge (US std)	kg/m²	1 000 × 2 000 (kg)	1 250 × 2 500 (kg)	1 500 × 3 000 (kg)	Stock
0.30	29	2.36	4.7	7.4	10.6	coil to order
0.40	27	3.14	6.3	9.8	14.1	stock
0.50	25	3.93	7.9	12.3	17.7	stock
0.60	24	4.71	9.4	14.7	21.2	stock
0.70	22	5.50	11.0	17.2	24.7	stock
0.80	21	6.28	12.6	19.6	28.3	stock
0.90	20	7.07	14.1	22.1	31.8	stock
1.00	19	7.85	15.7	24.5	35.3	stock
1.20	18	9.42	18.8	29.4	42.4	stock

mm	Gauge (US std)	kg/m²	1 000 × 2 000 (kg)	1 250 × 2 500 (kg)	1 500 × 3 000 (kg)	Stock
1.50	16	11.78	23.6	36.8	53.0	stock
2.00	14	15.70	31.4	49.1	70.7	stock
2.50	12	19.63	39.3	61.3	88.3	stock
3.00	11	23.55	47.1	73.6	106.0	stock / HRPO above

Above 3.0 mm the economical product is hot rolled pickled and oiled (HRPO); cold rolled 3.0–4.0 mm is available to order at a premium. Gauge values are US standard sheet gauge; UK SWG differs — state mm on the order.

SURFACE FINISH, ROUGHNESS AND OILING

Surface	Description	Roughness Ra	Typical use
A (matt, standard)	skin-passed with shot-blast textured rolls; small defects allowed	0.6–1.9 µm	painting, powder coating, general pressing, hidden parts
B (best quality)	one face free of defects that impair a uniform paint or plating finish	matt 0.6–1.9 µm or bright ≤ 0.6 µm	visible appliance and cabinet panels, enamelling
Bright (b)	polished rolls, mirror-like	≤ 0.6 µm	chrome / nickel plating, decorative parts
Semi-bright (g)	between matt and bright	0.6–0.9 µm	PPGI and GI substrate, electro-galvanizing
Rough (r)	extra-textured for paint adhesion	> 1.9 µm	heavy powder coating, adhesive bonding

Sheet is delivered lightly oiled (0.5–1.5 g/m²) as corrosion protection for 3–6 months in dry storage; dry (unoiled) on request for immediate painting or welding lines. Skin-pass also removes the yield-point elongation that causes Lüders lines on drawn parts — order 'non-ageing' (DC03 and up) if parts are pressed months after delivery.

STANDARDS

EN 10130 — cold rolled low carbon steel flat products for cold forming (DC01–DC06) · EN 10131 — tolerances on dimensions and shape · EN 10139 — cold rolled uncoated narrow strip (DC01 to DC06, C-grades) · ASTM A1008 — cold-rolled carbon steel sheet (CS, DS, DDS, EDDS) · JIS G3141 — SPCC, SPCD, SPCE · DIN 1623 (legacy) — St 12, St 13, St 14 · EN 10204 — 3.1 inspection certificates