Light Gauge Steel Profiles

OMEGA STEEL CO.
Istanbul · Dilovası plant

Cold-roll-formed light-gauge galvanized profiles manufactured to order in Dilovası: omega (hat / top-hat) profiles for cladding and roof battens, sigma purlins, C and U studs and tracks for light-gauge steel (LGS) framing and drywall, M and furring channels for ceilings and façade sub-frames, from 0.5 to 3.0 mm DX51D / S280GD / S350GD + Z140–Z275 or ZM, 40–300 mm, lengths to 13.5 m, punched, slotted and service-holed to the fabricator's drawing.

Omega · sigma · hat · M · C/U | 0.5 – 3.0 mm galvanized | 40 – 300 mm | Punched · slotted · cut | Own roll-forming lines

The thin profiles behind cladding, ceilings, partitions and steel-framed houses: omega and top-hat battens, sigma purlins, C studs and U tracks for LGS framing, M and furring channels for façade sub-frames — roll-formed on our lines from 0.5–3.0 mm galvanized strip, punched and cut to drawing. Standard sections from stock, custom profiles from 5 t.

PROFILE FAMILIES AND WHAT THEY DO

Profile	Shape	Sizes (mm)	Thickness	Use
Omega / hat	Hat with two feet	20×20 to 80×60, feet 20–30	0.5–2.0	Cladding and roofing battens, façade sub-frames, ceiling grids, solar rails
Top-hat	Wide hat	40–100 wide	0.75–1.5	Purlin over insulation, battens for tile roofs
Sigma	Σ with stiffened web	120–300 deep	1.5–3.0	Purlins and girts with high torsional stiffness, mezzanine joists
C stud (LGS)	Lipped C	70, 89, 100, 150, 200 × 41–50	0.75–2.0	Load-bearing wall studs, floor joists, roof trusses
U track	Unlipped U	72, 92, 103, 153, 203 × 40–50	0.75–2.0	Top and bottom tracks for studs
M / furring channel	Hat with narrow feet	M 60 / 70 / 100; furring 38×12, 50×20	0.5–1.0	Ceiling and drywall framing, façade rails
Z light	Z	60–150	1.0–2.0	Cladding rails, spacer purlins
Angle / L	L	20×20 to 60×60	0.6–2.0	Trims, fixings, drywall corners

OMEGA AND HAT PROFILES

Size (web × height, mm)	Feet (mm)	Thickness	kg/m	Typical use
20 × 20	20	0.5–0.8	0.35–0.55	Ceiling grid, cladding batten
30 × 30	25	0.6–1.0	0.55–0.90	Cladding rail
40 × 40	30	0.8–1.5	0.85–1.60	Façade sub-frame, roof batten (most ordered)
50 × 40	30	1.0–1.5	1.10–1.65	Sandwich-panel spacer, cladding
60 × 50	30	1.2–2.0	1.50–2.50	Roof batten over insulation, solar rails
80 × 60	40	1.5–2.0	2.30–3.10	Heavy cladding, purlin spacer

LGS FRAMING: C STUDS AND U TRACKS

Section	Web × flange × lip (mm)	Thickness	kg/m	Use
C70 / U72	70 × 41 × 8 / 72 × 40	0.75–1.0	1.2–1.6	Partitions, non-load-bearing
C89 / U92	89 × 41 × 10 / 92 × 40	0.75–1.5	1.4–2.7	Load-bearing walls (1–2 storeys), most used
C100 / U103	100 × 50 × 12 / 103 × 50	1.0–2.0	1.9–3.6	Walls, floor joists
C150 / U153	150 × 50 × 15 / 153 × 50	1.2–2.0	2.6–4.3	Floor joists, roof trusses
C200 / U203	200 × 50 × 15 / 203 × 50	1.5–2.5	3.6–5.9	Long-span floors
C250 / C300	250–300 × 63 × 18	2.0–3.0	5.5–8.5	Mezzanine joists, rafters

Web service holes (Ø25–100) punched at 600 mm centres, notched and dimpled ends for LGS machines, or plain for site assembly.

STANDARDS

EN 1993-1-3 (cold-formed design) · EN 10346 (DX51D / S280GD / S350GD + Z) · EN 10162 (cold-rolled sections, tolerances) · EN 14195 (metal framing components for gypsum board) · AS/NZS 4600, AISI S100 (LGS framing, on request) · EN 1090 (structural CE)

Updated 22 September 2026 · figures are nominal; the mill certificate governs