Custom Roll-Formed Profiles

OMEGA STEEL CO.
Istanbul · Dilovası plant

Special tube shapes (oval, flat-oval, elliptical, D, half-round, triangular, hexagonal) from our tube mill and custom cold-roll-formed open profiles from our roll-forming lines — 0.5 to 4.0 mm, in hot-rolled, cold-rolled, pre-galvanized, zinc-magnesium, stainless and pre-painted strip, to the customer's drawing — with in-house tooling design and manufacture, punching, notching and cut-to-length; for furniture, greenhouses and agriculture, trailers and truck bodies, door and window frames, solar mounting, conveyors, shelving, cable management and machinery; from 5 t per section.

Oval · flat-oval · D · half-round | Custom open profiles | 0.5 – 4.0 mm | Steel · galv · ZM · stainless · PPGI | In-house tooling

If the profile in your drawing is not in any catalogue, we make the tooling and roll it: oval and flat-oval tube for furniture and handrails, D and half-round for greenhouses and trailers, hat, channel, hook, clip and rail profiles for doors, solar, conveyors and shelving — 0.5 to 4 mm, in black, galvanized, ZM, stainless or pre-painted strip, punched and cut in line. Tooling in 3–6 weeks, then runs from 5 t.

SPECIAL TUBE SHAPES

Shape	Size range	Wall	Material	Typical use
Flat-oval	20×10 to 100×50 mm	0.8–2.5 mm	CR, galvanized, stainless 304	Furniture, handrails, display stands, stair rails
Elliptical (true oval)	30×15 to 120×60	1.0–2.5	CR, galvanized, stainless	Furniture legs, exhaust, architectural
D-shaped	25 to 80 mm	1.0–2.0	Galvanized, CR	Greenhouse arches, trailer bows, handrails against walls
Half-round	30 to 100 mm	1.0–2.0	Galvanized, PPGI	Trim, gutters, decorative
Triangular / hexagonal	20–60 mm	1.0–2.0	CR, galvanized	Furniture, fittings
Round with internal ribs / keys	20–60 mm	1.0–2.0	Galvanized, CR	Telescopic poles, shelving uprights

Lengths 1–8 m, cut ±1 mm; polished or film-protected stainless; mill or painted finish on steel.

CUSTOM OPEN PROFILES

Family	Examples	Thickness	Material	Use
Hat / omega / top-hat	Custom heights and feet, clip slots	0.5–3.0	Galvanized, ZM, PPGI	Cladding rails, solar, ceilings
Channels and U	Lipped, unlipped, stiffened, with return	0.6–4.0	All	Frames, tracks, door frames, conveyor sides
Door and window frames	Multi-bend profiles with seals grooves	0.8–2.0	Galvanized, PPGI, stainless	Steel doors, fire doors, windows
Rails and guides	Sliding-door tracks, drawer rails, curtain rails	0.8–2.5	Galvanized, stainless	Doors, furniture, industrial
Trailer and body profiles	Side rails, floor bearers, cant rails	2.0–4.0	HRPO S355MC, galvanized	Trailers, truck bodies
Shelving and racking	Uprights with slots, beams, box beams	1.2–2.5	Galvanized, painted	Racking, mezzanines
Cable management	Cable-tray sides, ladders, wire-mesh frames	0.8–2.0	Galvanized, ZM, stainless	Electrical
Agricultural	Greenhouse gutters, crop-support rails, fence posts	1.0–2.5	Galvanized, ZM	Greenhouses, farms
Solar	Rails, clamps, torque-tube brackets	1.5–3.0	ZM250–310, HDG	PV mounting

STANDARDS

EN 10162 (cold-rolled steel sections — technical delivery conditions, tolerances) · EN 10305-3 / -5 (welded precision tubes, round and square/rectangular; special shapes by analogy) · EN 10346 / EN 10130 / EN 10088-2 (strip materials) · EN 1090 (structural CE where applicable)

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