Standing Seam Roof Panels

OMEGA STEEL CO.
Istanbul · Dilovası plant

Standing seam metal roofing systems roll-formed in our Dilovası plant: snap-lock (click) panels with 25 mm seams and double-lock mechanically seamed panels with 25 or 38 mm seams, pan widths 300–600 mm, from 0.60–0.80 mm pre-painted galvanized or aluzinc steel and 0.7–1.0 mm aluminium, in any length to 13.5 m (longer on site with a mobile roll-former), fixed with hidden clips on a structural deck or purlins, for architectural, public and commercial roofs, low pitches from 3°, curved and tapered roofs; supplied as complete systems with clips, ridge and eave details, underlay and flashings.

Snap-lock 25 · double-lock 25 / 38 mm | Pan 300 – 600 mm | 0.60 – 0.80 mm PPGI / PPGL · alu 0.7 – 1.0 | Pitch from 3° · curved | Hidden clips · own line + mobile roll-former

The roof with no visible screws: standing seam panels roll-formed from 0.60–0.80 mm PPGI, aluzinc or aluminium, joined at 25 or 38 mm raised seams and held by hidden clips that let the metal expand — watertight from a 3° pitch, curved or tapered, 30–50 years with PVDF paint. Snap-lock for pitches over 7° and fast installation, double-lock mechanically seamed for low pitches, long panels and high wind. Cut to full raf

SYSTEMS AND PROFILES

System	Seam	Pan width	Material / thickness	Min. pitch	Clip	Typical use
Snap-lock 25	25 mm, click	300 / 400 / 500 mm	PPGI 0.60–0.70, alu 0.7–0.9	7°	Fixed / sliding clip	Villas, schools, commercial, fast install
Double-lock 25	25 mm, 180° seamed	400 / 500 / 600 mm	PPGI/PPGL 0.60–0.80, alu 0.8–1.0	3°	Sliding clip	Low-pitch roofs, long runs, wind zones
Double-lock 38	38 mm, seamed	400 / 500 mm	PPGI/PPGL 0.70–0.80, alu 0.9–1.0	3°	Sliding clip on thermal halter	Large roofs, stadiums, terminals, curved
Snap-lock 38 striated	38 mm, click, striated pan	400 / 500 mm	PPGI 0.60–0.70	5°	Fixed / sliding	Flat-looking pans without oil-canning
Curved / tapered	Any of the above	300–500 mm	0.70–0.80	3°	Sliding	Barrel-vault roofs, conical roofs (site-curved)

Striations (mini-ribs) in the pan reduce oil-canning; pencil ribs and flat pans on request.

MATERIALS AND FINISHES

Material	Thickness	Coating	Life	Where
PPGI (galvanized Z275 + PVDF 35 µm)	0.60–0.80 mm	PVDF, any RAL, matt or metallic	30–40 yr	Standard for projects — colour stability
PPGI polyester	0.60–0.70 mm	PE 25 µm	15–20 yr	Budget roofs, inland
PPGL (aluzinc AZ150 + PVDF)	0.60–0.80 mm	PVDF	35–45 yr	Coastal, humid, longest steel life
Aluminium 3105 / 5754	0.7–1.0 mm	PVDF, mill, anodised look	50+ yr	Coastal, curved roofs, lightest (2–3 kg/m²)
Zinc-magnesium ZM310 + PVDF	0.60–0.80 mm	PVDF	40+ yr	Cut-edge protection, 40-year warranties

STANDING SEAM VS TRAPEZOIDAL VS MEMBRANE

	Standing seam	Trapezoidal sheet	Single-ply membrane
Fixings	Hidden clips	Screws through crest	Adhered / mechanically fixed
Min. pitch	3° (double-lock)	5–8°	1°
Panel length	Unlimited (site-formed)	≤ 13.5 m, end laps	Rolls
Look	Architectural, clean lines	Industrial	Flat
Life	30–50 yr	20–30 yr	15–25 yr
Cost per m² (material)	1.8–2.5	1.0	1.2–1.8
Best for	Public, commercial, curved, low-pitch	Industrial, agricultural	Flat roofs

STANDARDS

EN 14782 (self-supporting metal sheet for roofing) · EN 10169 (pre-painted steel), EN 10346 (galvanized / aluzinc substrate) · EN 485 / EN 1396 (aluminium sheet and coil-coated aluminium) · EN 1991-1-4 (wind uplift design of clip systems) · EN 508-1/-2 (profiled sheet, steel and aluminium)