

Cold-Formed Purlins — Z & C Sections

Lipped Z and C purlins for roof and wall framing

Cold-formed lipped Z and C purlins and lipped channels, formed from galvanised or hot-rolled strip. Section sizes follow the local section series, so the same nominal profile is specified differently from market to market — select the table for your region.

Regional section series

Market	Common depth / size series	Thickness	Material / coating
Europe	100 / 120 / 150 / 200 / 250 / 300 mm	1.0 – 3.0 mm	S350GD + Z275 (EN 10346) typical
Australia / NZ	Z100 / Z150 / Z200 / Z250	Per product schedule	Galvanised strip to AS/NZS
North America	4½ – 16 in. deep, 2 – 3½ in. flange	16 ga (0.06 in.) – 10 ga (0.135 in.)	Galvanised / Galvalume
South Africa	Lipped channel & Z series per SANS 10162	Commonly 2.0 / 2.5 / 3.0 mm	Z275 pre-galvanised, hot-dip galvanised, zinc-magnesium

Design basis

South Africa	SANS 10162 — commercial quality minimum yield 200 MPa, tensile 365 MPa; higher specified yield available to SANS 1062
Europe	EN 1993-1-3 (design) · EN 10162 (dimensional tolerances) · EN 1090-1 (CE marking of structural components)
Australia / NZ	AS/NZS 4600:2018 — cold-formed steel structures
North America	AISI S100-16 (2020) with S2-20 — applicable to members up to 1 in. (25.4 mm) thick

Section properties

Section properties (A, I_x, I_y, Z_x, Z_y, J and radii of gyration) are published in the open cold-formed section tables used across the industry; supply the exact section you are working to and we will confirm the formed section and its properties with the quotation.

Standards referenced

SANS 10162 (SA) · EN 10346 / EN 10162 / EN 1993-1-3 / EN 1090-1 (EU) · AS/NZS 4600 (AU/NZ) · AISI S100 (North America)

Need a quote? Send the section designation (e.g. Z150 × 2.0), steel grade, coating class and total tonnage or length.

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