

Cold-Formed Sections — General Reference

Designation, tolerances and steel grades for roll-formed sections

A reference sheet for the paperwork side of a cold-formed order: how a roll-formed section is designated, which tolerances apply, and which steel grades and delivery conditions it arrives under. Useful when you are writing or checking a purchase specification rather than choosing a profile.

What the delivery standard covers

Clause group	What it fixes
Designation	How a cold-rolled section is named — general sections and sections for special applications (e.g. split tubes)
Steel grades	The grades a section may be supplied in
Delivery conditions	Supply condition, edge condition, lengths, end condition and delivered quantities
Tolerances	Dimensional and cross-sectional tolerances for roll-formed sections, plus internal bending radii

Grades and coatings in common use

Structural grades	S250GD, S280GD, S350GD and higher (the GD series)
Coatings	Z (zinc), ZM (zinc-magnesium) and AZ (aluminium-zinc) classes — Z275 is the usual default for building work
Edge / end	Cut edge, square cut ends unless agreed otherwise
Certificates	Mill certificates with chemical and mechanical data travel with the coil — ask for them when the project needs traceability

Section properties (area, second moment of area, section modulus, effective section for buckling) are **calculated** to EN 1993-1-3 or AISI S100 for the actual section and steel grade — they are not fixed by the delivery standard, which is why we quote them per section rather than from a generic table.

Standards referenced

EN 10162:2003 (cold rolled steel sections — technical delivery conditions, dimensional and cross-sectional tolerances) · EN 10346 (continuously hot-dip coated steel flat products — grades and coatings) · EN 1993-1-3 (design of cold-formed members and sheeting) · AISI S100 (North American cold-formed steel design) · EN 1090-1 / EN 1090-2 where the section is part of an executed steel structure

Need a quote? Send the section drawing or designation, steel grade and coating, total metres or tonnes, and whether mill certificates are required.

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