

Cold-Formed Steel Stud & Track

Load-bearing and non-load-bearing framing members (imperial nomenclature)

Cold-formed C-studs, tracks (runners) and bracing for partition, curtain-wall and load-bearing framing. Members are specified to the North American nomenclature, which encodes web depth, member type, flange width and base-metal thickness in one code.

How the designation reads

600S162-54 = **600** (6 in. web) · **S** (stud) · **162** (1-5/8 in. flange) · **54** (54 mil base-metal thickness). Track members use the same web and flange figures with a T in place of S.

Base-metal thickness

Mil (1/1000 in.)	Gauge	mm (calculated)
33 mil	20 ga	0.84 mm
43 mil	18 ga	1.09 mm
54 mil	16 ga	1.37 mm
68 mil	14 ga	1.73 mm
97 mil	12 ga	2.46 mm
118 mil	10 ga	3.00 mm

Mil is the minimum base steel thickness (about 95 % of design thickness). Members below 33 mil are normally treated as non-structural (drywall); 33 mil and above as structural — confirm with the governing specification.

Common sections

Web depths	3-5/8 in. and 6 in. standard; other depths per the same nomenclature
Flange widths	1-5/8 in. standard; wider flanges per nomenclature
Coating	G60 galvanised typical (ASTM A653); other coating classes on request
Length	Cut to order

Standards referenced

ASTM C645 (non-structural steel framing members) · ASTM C955 (load-bearing steel studs, runners, bracing) · ASTM A653 (steel sheet, zinc-coated) · SSMA Product Technical Guide (member nomenclature and tolerances) · AISI S100 (cold-formed steel design) · AISI S240 / S220 (framing)

Need a quote? Send the designation (e.g. 600S162-54), steel grade and coating class, plus total metres or tonnes.

zt-rfm.com · ztrollformmachine.com · +86 131 6656 7923 · steven@zt-rfm.com