



Super Stud Building Products - Product Submittal

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Specification Section: 05.40.00 (Cold-Formed Metal Framing) 1000S350-54 (50ksi) Standard Punch

54mil (16 ga) Coating: G60 (standard), G90 (special order)

Geometric Properties

Web Depth	10 in	Yield Strength, F_y	50 ksi
Flange Width	3.5 in	Ultimate, F_u	65 ksi
Lip Length	1.000 in	Punchout Width	1.5 in
Design Thickness	0.0566 in	Punchout Length	4.0 in
Min. Steel Thickness	0.0538 in		

Gross Section Properties

Cross Sectional Area (A)	1.0516 in ²
Product Weight per Linear Foot	3.5754 lb/ft
Moment of Inertia (I_x)	16.2207 in ⁴
Section Modulus (S_x)	3.2441 in ³
Radius of Gyration (r_x)	3.9275 in
Weak Axis Moment of Inertia (I_y)	1.7686 in ⁴
Weak Axis Radius of Gyration (r_y)	1.2969 in
Depth-to-Thickness Ratio (h/t)	172

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.4441 in ²
Moment of Inertia for Deflection (I_{xe})	13.1854 in ⁴
Section Modulus (S_{xe})	2.2673 in ³
Allowable Bending Moment (M_a)	67.8839 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	1,661 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	1.1229 in ⁴
Warping Constant (C_w)	35.7202 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	2.5431 in
Radius of Gyration (r_o)	4.8553 in
Torsional Flexural Constant (Beta)	0.7257

Codes and Standards

Super Stud products comply with the applicable provisions of the following:

International Building Code (IBC): 2006 – 2024

Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming

Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M

Galvanized coating: ASTM A653/A653M

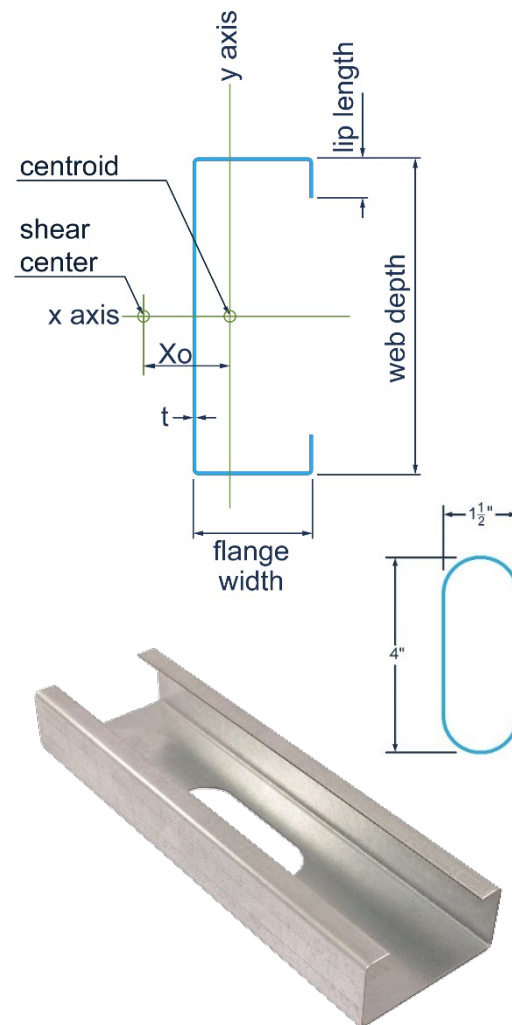
Nonstructural: Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202

Meets ASTM C754 when installed properly in structure.

Structural: Members and tolerances: ASTM C955; AISI S240, AISI S201, AISI S202

Meets ASTM C1007 when installed properly in structure.

3rd party Certification



Structural Punchout

First punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.). Center of last punchout is no less than 12" from end of member.

Custom stiffened punchouts are available at tighter spacing to reduce thermal transmittance and increase accessibility. Contact Technical Services for additional punchout information.

Sustainability

For LEED letters contact Technical Services at technical@buysuperstud.com or visit



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