



Super Stud Building Products - Product Submittal

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Specification Section: 05.40.00 (Cold-Formed Metal Framing) 1400S300-118 (50ksi) Standard Punch

118mil (10 ga) Coating: G60 (standard), G90 (special order)

Geometric Properties

Web Depth	14 in	Yield Strength, F_y	50 ksi
Flange Width	3 in	Ultimate, F_u	65 ksi
Lip Length	0.625 in	Punchout Width	1.5 in
Design Thickness	0.1242 in	Punchout Length	4.0 in
Min. Steel Thickness	0.1180 in		

Gross Section Properties

Cross Sectional Area (A)	2.5246 in ²
Product Weight per Linear Foot	8.5836 lb/ft
Moment of Inertia (I_x)	65.6654 in ⁴
Section Modulus (S_x)	9.3808 in ³
Radius of Gyration (r_x)	5.1000 in
Weak Axis Moment of Inertia (I_y)	2.1795 in ⁴
Weak Axis Radius of Gyration (r_y)	0.9291 in
Depth-to-Thickness Ratio (h/t)	108

Effective Section Properties, Strong Axis

Effective Area (A_e)	1.2305 in ²
Moment of Inertia for Deflection (I_{xe})	61.8959 in ⁴
Section Modulus (S_{xe})	8.3759 in ³
Allowable Bending Moment (M_a)	250.7740 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	11,285 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	12.9811 in ⁴
Warping Constant (C_w)	79.5410 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	1.5247 in
Radius of Gyration (r_o)	5.4036 in
Torsional Flexural Constant (Beta)	0.9204

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

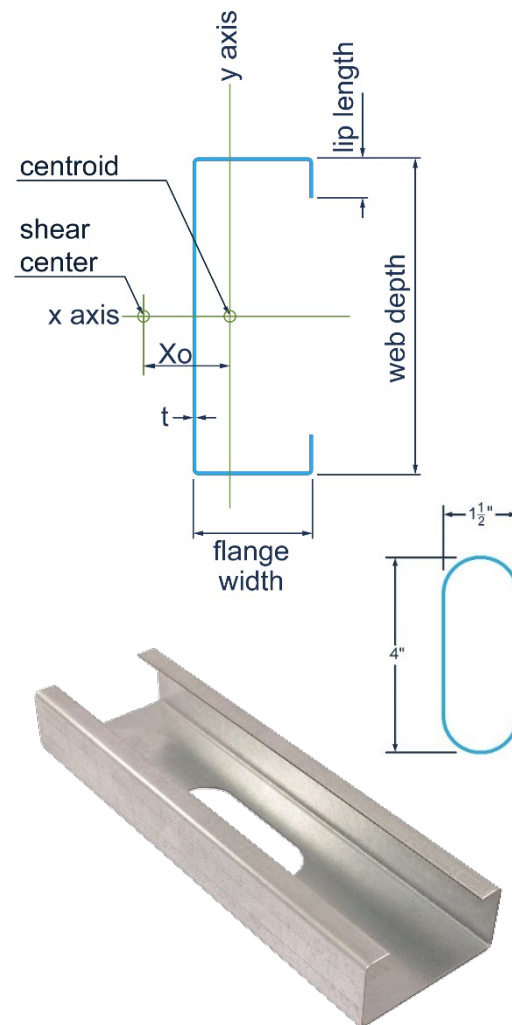
Nonstructural: Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202

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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