



Super Stud Building Products - Product Submittal

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Specification Section: 05.40.00 (Cold-Formed Metal Framing)

400S137-68 (50ksi) Standard Punch

68mil (14 ga) Coating: G60 (standard), G90 (special order)

Geometric Properties

Web Depth	4 in	Yield Strength, F_y	50 ksi
Flange Width	1.375 in	Ultimate, F_u	65 ksi
Lip Length	0.375 in	Punchout Width	1.5 in
Design Thickness	0.0713 in	Punchout Length	4.0 in
Min. Steel Thickness	0.0677 in		

Gross Section Properties

Cross Sectional Area (A)	0.4970 in ²
Product Weight per Linear Foot	1.6898 lb/ft
Moment of Inertia (I_x)	1.1656 in ⁴
Section Modulus (S_x)	0.5828 in ³
Radius of Gyration (r_x)	1.5315 in
Weak Axis Moment of Inertia (I_y)	0.1124 in ⁴
Weak Axis Radius of Gyration (r_y)	0.4755 in
Depth-to-Thickness Ratio (h/t)	51

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.3570 in ²
Moment of Inertia for Deflection (I_{xe})	1.1423 in ⁴
Section Modulus (S_{xe})	0.5681 in ³
Allowable Bending Moment (M_a)	19.6485 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	1,356 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.8421 in ⁴
Warping Constant (C_w)	0.3413 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	0.9147 in
Radius of Gyration (r_o)	1.8461 in
Torsional Flexural Constant (Beta)	0.7545

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

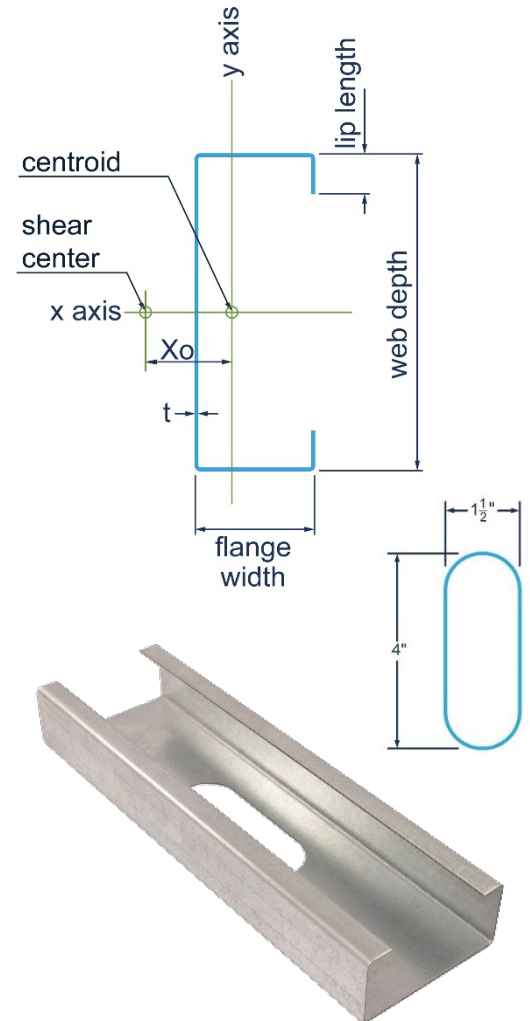
Nonstructural: Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202

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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