



Super Stud Building Products - Product Submittal

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Specification Section: 05.40.00 (Cold-Formed Metal Framing)

800S200-33 (33ksi) Standard Punch

33mil (STR 20 ga) Coating: G60 (standard), G90 (special order)

Geometric Properties

Web Depth	8 in	Yield Strength, F_y	33 ksi
Flange Width	2 in	Ultimate, F_u	45 ksi
Lip Length	0.625 in	Punchout Width	1.5 in
Design Thickness	0.0346 in	Punchout Length	4.0 in
Min. Steel Thickness	0.0329 in		

Gross Section Properties

Cross Sectional Area (A)	0.4481 in ²
Product Weight per Linear Foot	1.5235 lb/ft
Moment of Inertia (I_x)	4.0960 in ⁴
Section Modulus (S_x)	1.0240 in ³
Radius of Gyration (r_x)	3.0234 in
Weak Axis Moment of Inertia (I_y)	0.2275 in ⁴
Weak Axis Radius of Gyration (r_y)	0.7125 in
Depth-to-Thickness Ratio (h/t)	225

NOTE: $h/t > 200$. Bearing stiffeners may be required at supports and concentrated loads.

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.1936 in ²
Moment of Inertia for Deflection (I_{xe})	3.5541 in ⁴
Section Modulus (S_{xe})	0.7916 in ³
Allowable Bending Moment (M_a)	13.0606 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	379 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.1788 in ⁴
Warping Constant (C_w)	2.8777 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	1.2837 in
Radius of Gyration (r_o)	3.3611 in
Torsional Flexural Constant (Beta)	0.8541

Codes and Standards

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

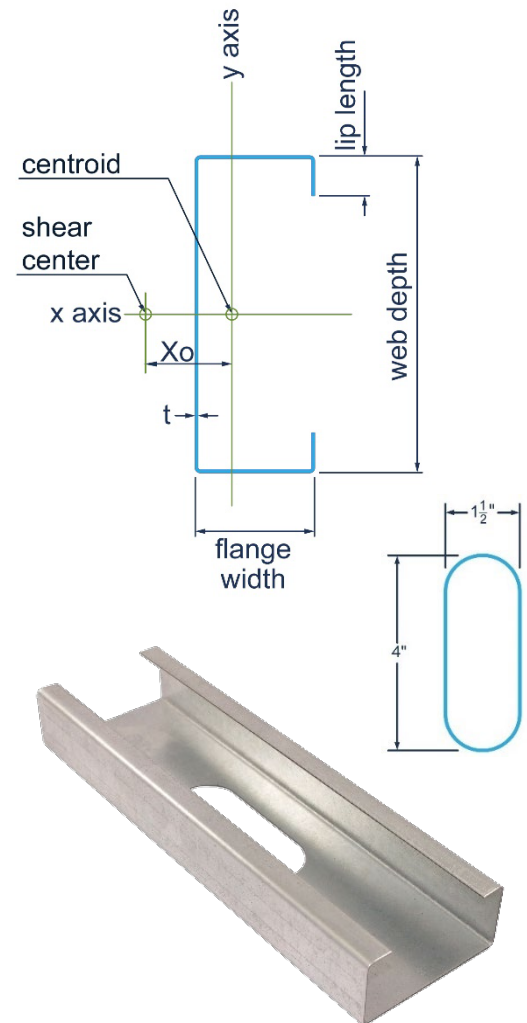
International Building Code (IBC): 2006 – 2024
Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
Galvanized coating: ASTM A653/A653M
Nonstructural: Members and tolerances: ASTM 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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