



Super Stud Building Products - Product Submittal

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Specification Section: 05.40.00 (Cold-Formed Metal Framing)

250S137-43 (33ksi) Standard Punch

43mil (18 ga) Coating: G60 (standard), G90 (special order)

Geometric Properties

Web Depth	2.5 in	Yield Strength, F_y	33 ksi
Flange Width	1.375 in	Ultimate, F_u	45 ksi
Lip Length	0.375 in	Punchout Width	1.5 in
Design Thickness	0.0451 in	Punchout Length	4.0 in
Min. Steel Thickness	0.0428 in		

Gross Section Properties

Cross Sectional Area (A)	0.2552 in ²
Product Weight per Linear Foot	0.8677 lb/ft
Moment of Inertia (I_x)	0.2607 in ⁴
Section Modulus (S_x)	0.2085 in ³
Radius of Gyration (r_x)	1.0107 in
Weak Axis Moment of Inertia (I_y)	0.0666 in ⁴
Weak Axis Radius of Gyration (r_y)	0.5109 in
Depth-to-Thickness Ratio (h/t)	50

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.2103 in ²
Moment of Inertia for Deflection (I_{xe})	0.2591 in ⁴
Section Modulus (S_{xe})	0.2073 in ³
Allowable Bending Moment (M_a)	4.2519 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	394 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.1730 in ⁴
Warping Constant (C_w)	0.0904 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	1.1273 in
Radius of Gyration (r_o)	1.5979 in
Torsional Flexural Constant (Beta)	0.5023

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

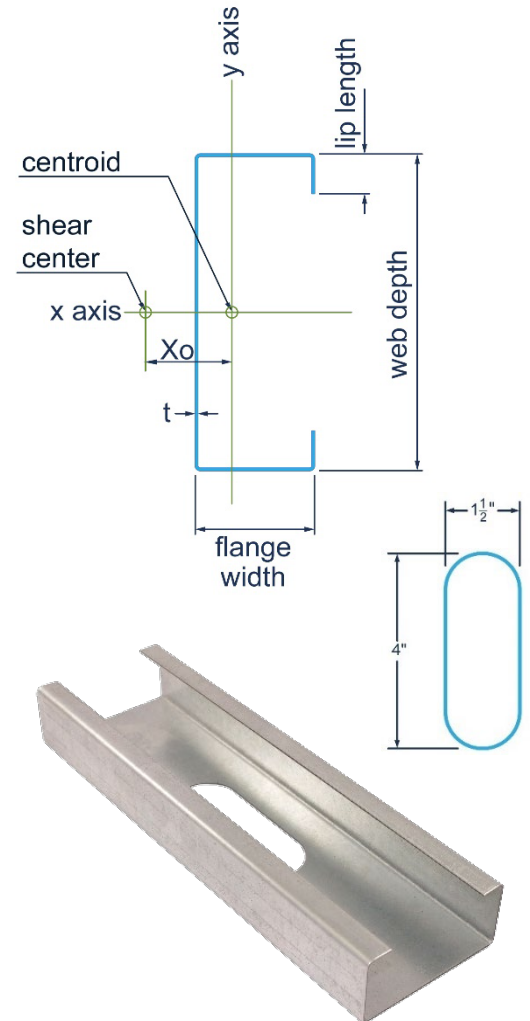
Nonstructural: Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202

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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