

Super Stud Building Products - Product Submittal

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Specification Section: 05.40.00 (Cold-Formed Metal Framing)

1400S300-97 (50ksi) Standard Punch

97mil (12 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	0.1017 in	Punchout Length	4.0 in
Min. Steel Thicknes	s 0.0966 in	-	

Gross Section Properties

Cross Sectional Area (A)	2.0842 in ²
Product Weight per Linear Foot	7.0863 lb/ft
Moment of Inertia (I _x)	54.6806 in ⁴
Section Modulus (S _x)	7.8115 in ³
Radius of Gyration (r _x)	5.1220 in
Weak Axis Moment of Inertia (I _y)	1.8564 in ⁴
Weak Axis Radius of Gyration (r _y)	0.9438 in
Depth-to-Thickness Ratio (h/t)	133

Effective Section Properties, Strong Axis

Effective Area (A _e)	0.9052 in ²
Moment of Inertia for Deflection (I _{xe})	48.7340 in ⁴
Section Modulus (S _{xe})	6.3022 in ³
Allowable Bending Moment (M _a)	188.6901 in-k
Allowable Shear Force in Web (at Punchout) (V _v)	6,938 lb

Torsional Properties

St. Venant Torsion Constant (J x 1000)	7.1857 in ⁴
Warping Constant (C _w)	68.1519 in ⁶
Distance from Shear Center to Neutral Axis (X _o)	1.5532 in
Radius of Gyration (r _o)	5.4349 in
Torsional Flexural Constant (Beta)	0.9183

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

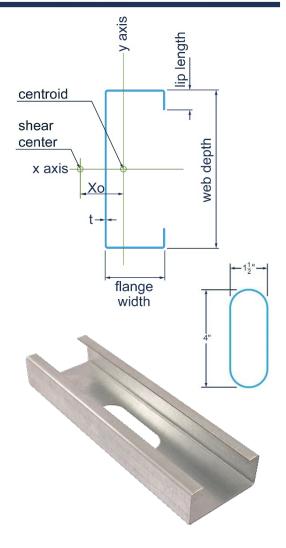
Galvanized coating: ASTM A653/A653M

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.

