

Super Stud Building Products - Product Submittal

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New Jersey 2960 Woodbridge Avenue Edison, NJ 08837 732-662-6200 **Mississippi** 53 W L Runnels Industrial Dr Hattiesburg, MS 39401 601-584-7550

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

1200S250-54 (50ksi) Standard Punch

54mil (16 ga) Coating: G60 (standard), G90 (special order)

Geometric Properties

Web Depth	12 in	Yield Strength, F _y	50 ksi	
Flange Width	2.5 in	Ultimate, F _u	65 ksi	
Lip Length	0.625 in	Punchout Width	1.5 in	
Design Thickness	0.0566 in	Punchout Length	4.0 in	
Min. Steel Thickness 0.0538 in				

Gross Section Properties

Cross Sectional Area (A)	1.0091 in ²
Product Weight per Linear Foot	3.4309 lb/ft
Moment of Inertia (I _x)	19.6814 in ⁴
Section Modulus (S _x)	3.2802 in ³
Radius of Gyration (r _x)	4.4162 in
Weak Axis Moment of Inertia (I _y)	0.6833 in ⁴
Weak Axis Radius of Gyration (r _y)	0.8228 in
Depth-to-Thickness Ratio (h/t)	207

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

Effective Section Properties. Strong Axis

Effective Area (A _e)	0.3471 in ²
Moment of Inertia for Deflection (I _{xe})	15.2997 in ⁴
Section Modulus (S _{xe})	2.1076 in ³
Allowable Bending Moment (M _a)	52.6889 in-k
Allowable Shear Force in Web (at Punchout) (V _v)	1.102 lb

Torsional Properties

St. Venant Torsion Constant (J x 1000)	1.0776 in⁴
Warping Constant (C _w)	18.8434 in ⁶
Distance from Shear Center to Neutral Axis (X _o)	1.3704 in
Radius of Gyration (r _o)	4.6966 in
Torsional Flexural Constant (Beta)	0.9149

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

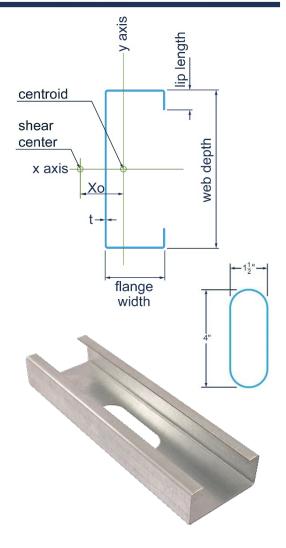
Galvanized coating: ASTM A653/A653M

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.

