



Super Stud Building Products - Product Submittal

Technical Services: technical@buysuperstud.com

800-477-7883
buysuperstud.com

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) 1200S162-54 (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	1.625 in	Ultimate, F_u	65 ksi
Lip Length	0.500 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)	0.8959 in ²
Product Weight per Linear Foot	3.0461 lb/ft
Moment of Inertia (I_x)	15.7308 in ⁴
Section Modulus (S_x)	2.6218 in ³
Radius of Gyration (r_x)	4.1902 in
Weak Axis Moment of Inertia (I_y)	0.2121 in ⁴
Weak Axis Radius of Gyration (r_y)	0.4865 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)	0.3118 in ²
Moment of Inertia for Deflection (I_{xe})	13.1351 in ⁴
Section Modulus (S_{xe})	1.8703 in ³
Allowable Bending Moment (M_a)	46.7577 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	1,102 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.9567 in ⁴
Warping Constant (C_w)	6.0447 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	0.7242 in
Radius of Gyration (r_o)	4.2801 in
Torsional Flexural Constant (Beta)	0.9714

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

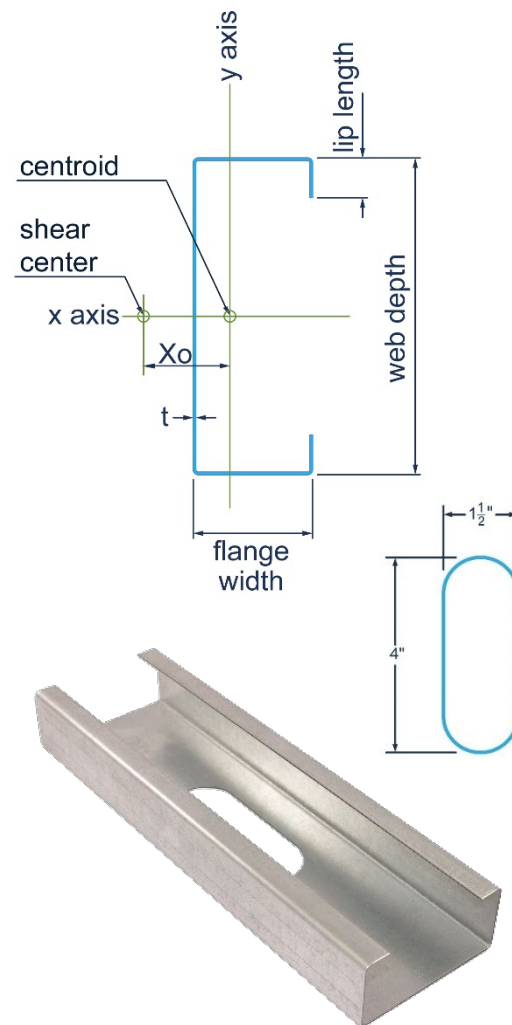
Nonstructural: Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202

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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