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Super Stud Building Products

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SUPERMAXX STUD

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

800SMX300-54 (50ksi) Standard Punch

54mils (16ga) Coating: CP60 (G60) Standard or CP90 (G90) Available

Geometric Properties

Web Depth	8 in	Yield Strength, F_y	50 ksi
Flange Width	3 in	Ultimate, F_u	65 ksi
Design Thickness	0.0566 in	Min. Steel Thickness	0.0538 in
First Lip:	1.125 in	Second Lip:	0.5 in

Gross Section Properties

Cross Sectional Area (A)	0.9406 in ²
Product Weight per Linear Foot	3.1980 lb/ft
Moment of Inertia (I_x)	9.2902 in ⁴
Section Modulus (S_x)	2.3225 in ³
Radius of Gyration (r_x)	3.1427 in
Weak Axis Moment of Inertia (I_y)	1.3298 in ⁴
Weak Axis Radius of Gyration (r_y)	1.1890 in
Depth-to-Thickness Ratio (h/t)	136

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.5207 in ²
Moment of Inertia for Deflection (I_{xe})	8.5682 in ⁴
Section Modulus (S_{xe})	2.0281 in ³
Allowable Bending Moment (M_a)	60.7204 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	2,091 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	1.0045 in ⁴
Warping Constant (C_w)	21.2855 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	2.6231 in
Radius of Gyration (r_o)	4.2628 in
Torsional Flexural Constant (Beta)	0.6213

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

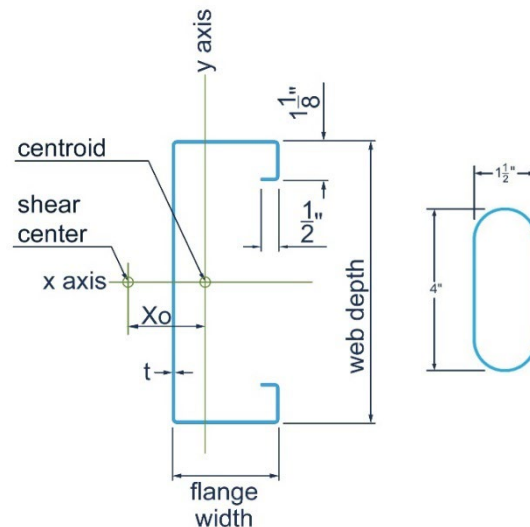
Galvanized coating: ASTM A653/A653M

Members and tolerances: ASTM C955; AISI S240, AISI S201, AISI S202

Meets ASTM C1007 when installed properly in structure.

3rd party Certification

SuperMAXX Joists have flanges with double returns for superior strength and stiffness that dramatically increase spans and capacities.



Two hole pattern options Standard Structural Punch

First oval 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.

Maxx Punch

Only available in 6" and 8" studs. First oval punchout is centered at 12" from beginning of member. Three reinforced circular holes 6" o.c. follow and pattern repeats. Oval punchouts are at 24" o.c. Center of last punch out is no less than 12" from end of member.



Sustainability

For LEED letters contact Technical Services at technical@buysuperstud.com or visit

<https://www.buysuperstud.com/specs-resources/sustainability-and-green-building>



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