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Super Stud Building Products

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SUPERMAXX STUD

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

800SMX350-33 (33ksi) Standard Punch

33mils (STR 20ga) Coating: CP60 (G60) Standard or CP90 (G90) Available

Geometric Properties

Web Depth	8 in	Yield Strength, F_y	33 ksi
Flange Width	3.5 in	Ultimate, F_u	45 ksi
Design Thickness	0.0346 in	Min. Steel Thickness	0.0329 in
First Lip:	1.125 in	Second Lip:	0.5 in

Gross Section Properties

Cross Sectional Area (A)	0.6159 in ²
Product Weight per Linear Foot	2.0941 lb/ft
Moment of Inertia (I_x)	6.3275 in ⁴
Section Modulus (S_x)	1.5819 in ³
Radius of Gyration (r_x)	3.2052 in
Weak Axis Moment of Inertia (I_y)	1.1955 in ⁴
Weak Axis Radius of Gyration (r_y)	1.3932 in
Depth-to-Thickness Ratio (h/t)	225

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

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.2807 in ²
Moment of Inertia for Deflection (I_{xe})	4.9185 in ⁴
Section Modulus (S_{xe})	1.0300 in ³
Allowable Bending Moment (M_a)	16.9957 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	379 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.2458 in ⁴
Warping Constant (C_w)	19.3522 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	3.1335 in
Radius of Gyration (r_o)	4.6940 in
Torsional Flexural Constant (Beta)	0.5544

Codes and Standards

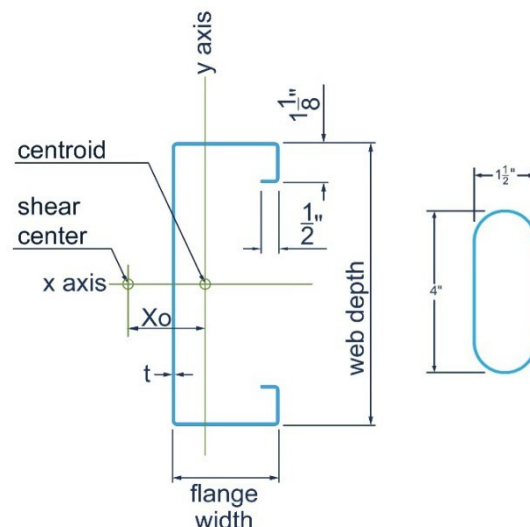
Super Stud products comply with the applicable provisions of the following:

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

Sustainability

For LEED letters contact Technical Services at technical@buysuperstud.com or visit <https://www.buysuperstud.com/specs-resources/sustainability-and-green-building>

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

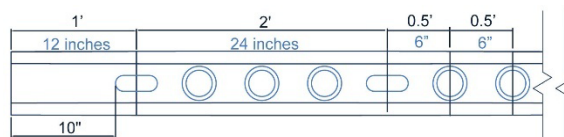


Two hole pattern options Standard Structural Punch

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.



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