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Super Stud Building Products

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SUPERMAXX STUD

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

800SMX350-43 (33ksi) Standard Punch

43mils (18ga) 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	0.0451 in	Min. Steel Thickness	0.0428 in
First Lip:	1.125 in	Second Lip:	0.5 in

Gross Section Properties

Cross Sectional Area (A)	0.8000 in ²
Product Weight per Linear Foot	2.7200 lb/ft
Moment of Inertia (I_x)	8.1983 in ⁴
Section Modulus (S_x)	2.0496 in ³
Radius of Gyration (r_x)	3.2013 in
Weak Axis Moment of Inertia (I_y)	1.5409 in ⁴
Weak Axis Radius of Gyration (r_y)	1.3879 in
Depth-to-Thickness Ratio (h/t)	172

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.4176 in ²
Moment of Inertia for Deflection (I_{xe})	7.1039 in ⁴
Section Modulus (S_{xe})	1.6086 in ³
Allowable Bending Moment (M_a)	31.7867 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	1,051 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.5424 in ⁴
Warping Constant (C_w)	24.7519 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	3.1154 in
Radius of Gyration (r_o)	4.6776 in
Torsional Flexural Constant (Beta)	0.5564

Codes and Standards

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

International Building Code (IBC): 2006 – 2024

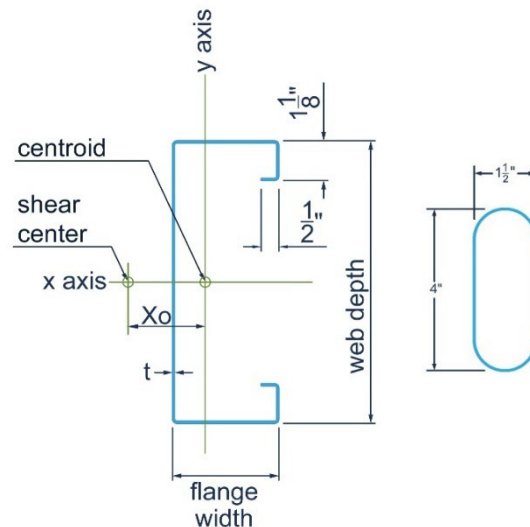
Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming

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.

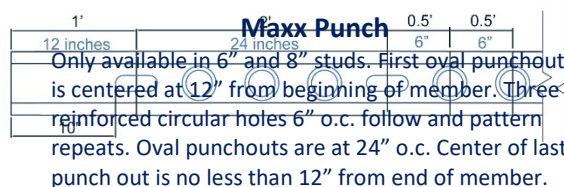
3rd party Certification

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.



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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