



Super Stud Building Products - Product Submittal

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Specification Section: 09.22.16 (Non-Structural Metal Framing)

600S125-33 (33ksi) Standard Punch

33mil (STR 20 ga) Coating: G60 (standard), G90 (special order)

Geometric Properties

Web Depth	6 in	Yield Strength, F_y	33 ksi
Flange Width	1.25 in	Ultimate, F_u	45 ksi
Lip Length	0.188 in	Punchout Width	1.5 in
Design Thickness	0.0346 in	Punchout Length	4.0 in
Min. Steel Thickness	0.0329 in		

Gross Section Properties

Cross Sectional Area (A)	0.2967 in ²
Product Weight per Linear Foot	1.0088 lb/ft
Moment of Inertia (I_x)	1.4093 in ⁴
Section Modulus (S_x)	0.4698 in ³
Radius of Gyration (r_x)	2.1794 in
Weak Axis Moment of Inertia (I_y)	0.0417 in ⁴
Weak Axis Radius of Gyration (r_y)	0.3747 in
Depth-to-Thickness Ratio (h/t)	167

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.1209 in ²
Moment of Inertia for Deflection (I_{xe})	1.2118 in ⁴
Section Modulus (S_{xe})	0.3550 in ³
Allowable Bending Moment (M_a)	7.0143 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	638 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.1184 in ⁴
Warping Constant (C_w)	0.2782 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	0.5999 in
Radius of Gyration (r_o)	2.2913 in
Torsional Flexural Constant (Beta)	0.9315

Codes and Standards

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

International Building Code (IBC): 2006 – 2024

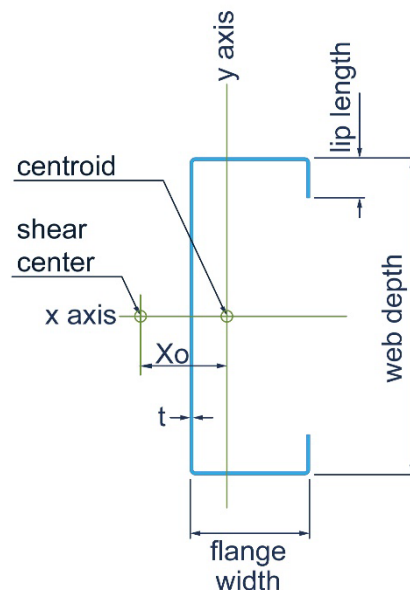
Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming

Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M

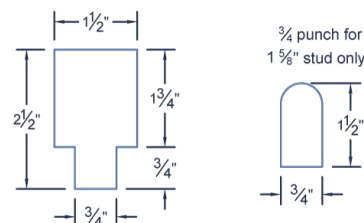
Galvanized coating: ASTM A653/A653M

Nonstructural:

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



Meets ASTM C754 when installed properly in



structure.

Tested for fire resistance in accordance with ASTM E119 and UL 263.

3rd party Certification

Non-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.

Sustainability

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



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