



Super Stud Building Products - Product Submittal

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Specification Section: 09.22.16 (Non-Structural Metal Framing)

362S125-33 (33ksi) Standard Punch

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

Geometric Properties

Web Depth	3.625 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)	0.2145 in ²
Product Weight per Linear Foot	0.7293 lb/ft
Moment of Inertia (I_x)	0.4208 in ⁴
Section Modulus (S_x)	0.2322 in ³
Radius of Gyration (r_x)	1.4005 in
Weak Axis Moment of Inertia (I_y)	0.0367 in ⁴
Weak Axis Radius of Gyration (r_y)	0.4135 in
Depth-to-Thickness Ratio (h/t)	98

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.1172 in ²
Moment of Inertia for Deflection (I_{xe})	0.3731 in ⁴
Section Modulus (S_{xe})	0.1889 in ³
Allowable Bending Moment (M_a)	3.7325 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	521 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.0856 in ⁴
Warping Constant (C_w)	0.0864 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	0.7625 in
Radius of Gyration (r_o)	1.6473 in
Torsional Flexural Constant (Beta)	0.7857

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

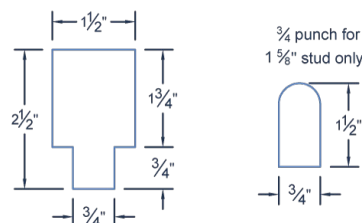
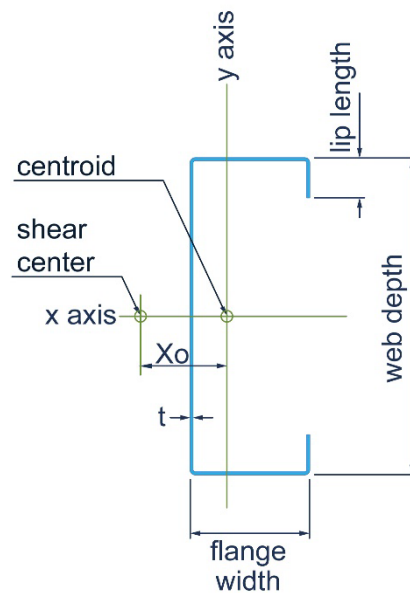
Nonstructural:

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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