Super Stud Building Products - Product Submittal
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Specification Section: 05.40.00 (Cold-Formed Metal Framing)

1200S200-97 (50ksi) Standard Punch

97mil (12 ga) Coating: G60 (standard), G90 (special order)

Geometric Properties

Web Depth	12 in	Yield Strength, F_y	50 ksi
Flange Width	2 in	Ultimate, F_u	65 ksi
Lip Length	0.625 in	Punchout Width	1.5 in
Design Thickness	0.1017 in	Punchout Length	4.0 in
Min. Steel Thickness	0.0966 in		

Gross Section Properties

Cross Sectional Area (A)	1.6774 in^2
Product Weight per Linear Foot	5.7032 lb/ft
Moment of Inertia (I_x)	30.4217 in^4
Section Modulus (S_x)	5.0703 in^3
Radius of Gyration (r_x)	4.2586 in
Weak Axis Moment of Inertia (I_y)	0.6369 in^4
Weak Axis Radius of Gyration (r_y)	0.6162 in
Depth-to-Thickness Ratio (h/t)	113

Effective Section Properties, Strong Axis

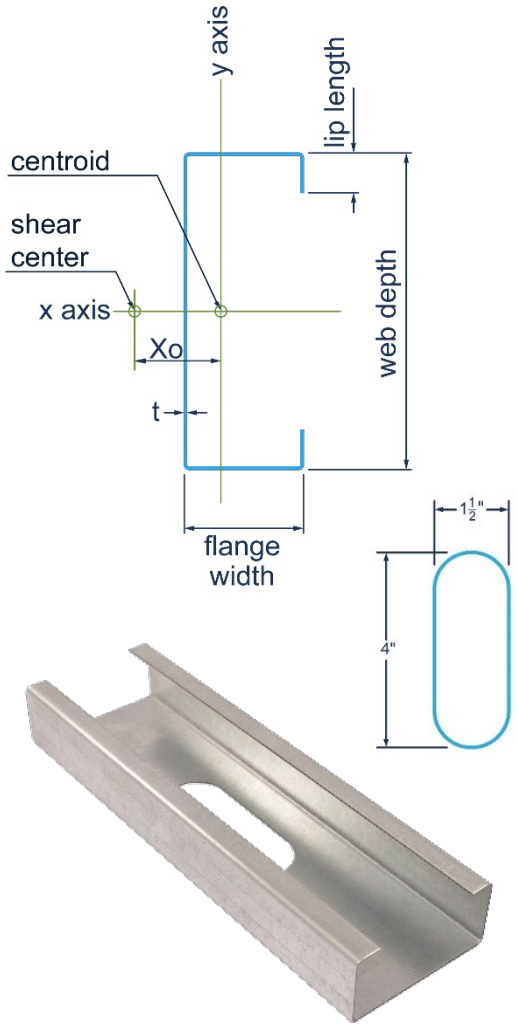
Effective Area (A_e)	0.8007 in^2
Moment of Inertia for Deflection (I_{xe})	29.1189 in^4
Section Modulus (S_{xe})	4.6262 in^3
Allowable Bending Moment (M_a)	138.5096 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	7,410 lb

Torsional Properties

St. Venant Torsion Constant (J x 1000)	5.7832 in^4
Warping Constant (C_w)	17.7585 in^6
Distance from Shear Center to Neutral Axis (X_o)	0.9729 in
Radius of Gyration (r_o)	4.4116 in
Torsional Flexural Constant (Beta)	0.9514

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.
Structural: Members and tolerances: ASTM C955; AISI S240, AISI S201, AISI S202
Meets ASTM C1007 when installed properly in structure.
3rd party Certification



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.

Custom stiffened punchouts are available at tighter spacing to reduce thermal transmittance and increase accessibility. Contact Technical Services for additional punchout information.

SFIA MEMBER

Sustainability

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