



# Super Stud Building Products - Product Submittal

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## Specification Section: 05.40.00 (Cold-Formed Metal Framing) 362S162-118 (50ksi) Standard Punch

118mil (10 ga) Coating: G60 (standard), G90 (special order)

### Geometric Properties

Web Depth	3.625 in	Yield Strength, $F_y$	50 ksi
Flange Width	1.625 in	Ultimate, $F_u$	65 ksi
Lip Length	0.500 in	Punchout Width	1.5 in
Design Thickness	0.1242 in	Punchout Length	4.0 in
Min. Steel Thickness	0.1180 in		

### Gross Section Properties

Cross Sectional Area (A)	0.8634 in <sup>2</sup>
Product Weight per Linear Foot	2.9356 lb/ft
Moment of Inertia ( $I_x$ )	1.6760 in <sup>4</sup>
Section Modulus ( $S_x$ )	0.9247 in <sup>3</sup>
Radius of Gyration ( $r_x$ )	1.3933 in
Weak Axis Moment of Inertia ( $I_y$ )	0.2754 in <sup>4</sup>
Weak Axis Radius of Gyration ( $r_y$ )	0.5648 in
Depth-to-Thickness Ratio (h/t)	24

### Effective Section Properties, Strong Axis

Effective Area ( $A_e$ )	0.6771 in <sup>2</sup>
Moment of Inertia for Deflection ( $I_{xe}$ )	1.6411 in <sup>4</sup>
Section Modulus ( $S_{xe}$ )	0.9054 in <sup>3</sup>
Allowable Bending Moment ( $M_a$ )	33.0965 in-k
Allowable Shear Force in Web (at Punchout) ( $V_y$ )	784 lb

### Torsional Properties

St. Venant Torsion Constant ( $J \times 1000$ )	4.4395 in <sup>4</sup>
Warping Constant ( $C_w$ )	0.7107 in <sup>6</sup>
Distance from Shear Center to Neutral Axis ( $X_o$ )	1.1850 in
Radius of Gyration ( $r_o$ )	1.9142 in
Torsional Flexural Constant (Beta)	0.6168

### 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

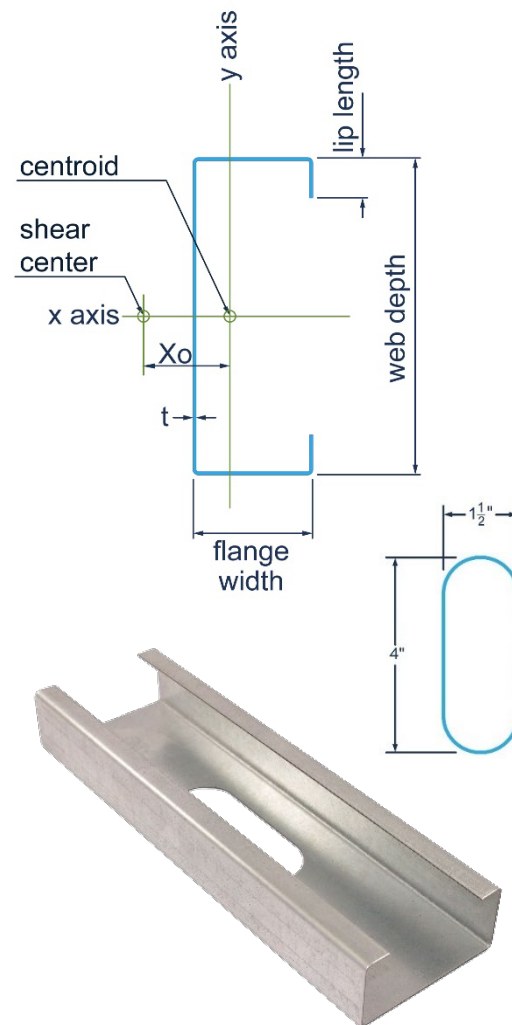
Nonstructural: Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202

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.

3<sup>rd</sup> 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.

### Sustainability

For LEED letters contact Technical Services at [technical@buysuperstud.com](mailto:technical@buysuperstud.com) or visit



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