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## Super Stud Building Products

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# SUPERMAXX STUD

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

## 600SMX300-97 (50ksi) Standard Punch

97mils (12ga) Coating: CP60 (G60) Standard or CP90 (G90) Available

### Geometric Properties

|                  |           |                       |           |
|------------------|-----------|-----------------------|-----------|
| Web Depth        | 6 in      | Yield Strength, $F_y$ | 50 ksi    |
| Flange Width     | 3 in      | Ultimate, $F_u$       | 65 ksi    |
| Design Thickness | 0.1017 in | Min. Steel Thickness  | 0.0966 in |
| First Lip:       | 1.125 in  | Second Lip:           | 0.5 in    |

### Gross Section Properties

|                                        |                        |
|----------------------------------------|------------------------|
| Cross Sectional Area (A)               | 1.4356 in <sup>2</sup> |
| Product Weight per Linear Foot         | 4.8810 lb/ft           |
| Moment of Inertia ( $I_x$ )            | 8.0827 in <sup>4</sup> |
| Section Modulus ( $S_x$ )              | 2.6942 in <sup>3</sup> |
| Radius of Gyration ( $r_x$ )           | 2.3728 in              |
| Weak Axis Moment of Inertia ( $I_y$ )  | 1.9715 in <sup>4</sup> |
| Weak Axis Radius of Gyration ( $r_y$ ) | 1.1719 in              |
| Depth-to-Thickness Ratio (h/t)         | 54                     |

### Effective Section Properties, Strong Axis

|                                                      |                        |
|------------------------------------------------------|------------------------|
| Effective Area ( $A_e$ )                             | 1.1372 in <sup>2</sup> |
| Moment of Inertia for Deflection ( $I_{xe}$ )        | 8.0541 in <sup>4</sup> |
| Section Modulus ( $S_{xe}$ )                         | 2.6847 in <sup>3</sup> |
| Allowable Bending Moment ( $M_a$ )                   | 88.7091 in-k           |
| Allowable Shear Force in Web (at Punchout) ( $V_y$ ) | 3,806 lb               |

### Torsional Properties

|                                                      |                         |
|------------------------------------------------------|-------------------------|
| St. Venant Torsion Constant ( $J \times 1000$ )      | 4.9495 in <sup>4</sup>  |
| Warping Constant ( $C_w$ )                           | 20.0156 in <sup>6</sup> |
| Distance from Shear Center to Neutral Axis ( $X_o$ ) | 2.7867 in               |
| Radius of Gyration ( $r_o$ )                         | 3.8430 in               |
| Torsional Flexural Constant (Beta)                   | 0.4742                  |

### 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

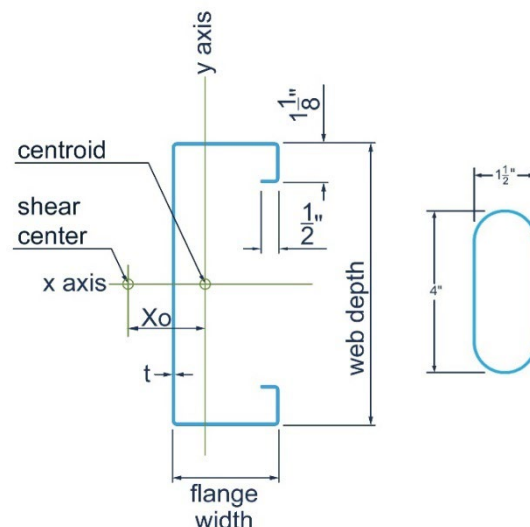
Galvanized coating: ASTM A653/A653M

Members and tolerances: ASTM C955; AISI S240, AISI S201, AISI S202

Meets ASTM C1007 when installed properly in structure.

3<sup>rd</sup> 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.

### Maxx Punch

Only available in 6" and 8" studs. First oval punchout is centered at 12" from beginning of member. Three reinforced circular holes 6" o.c. follow and pattern repeats. Oval punchouts are at 24" o.c. Center of last punch out is no less than 12" from end of member.



### Sustainability

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

<https://www.buysuperstud.com/specs-resources/sustainability-and-green-building>



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