

PRODUCT SUBMITTAL SHEET

For more information or questions, please contact the technical department: technical@buysuperstud.com



550S200-97 (Standard Punch)

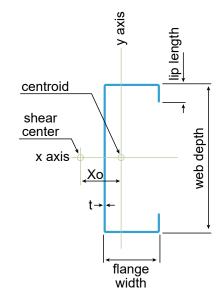
Product Description: 5-1/2" Stud 12GA (2" Flange, 97 mil)

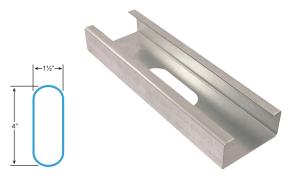
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

| GEOMETRIC PROPERTIES | | | | |
|----------------------|-----------|----------------------|------------|--|
| Web Depth | 5.5 in. | Yield Strength, Fy | 50 ksi | |
| Flange Width | 2 in. | Design Thickness | 0.1017 in. | |
| Lip Length | 0.625 in. | Min. Steel Thickness | 0.0966 in. | |

| GROSS PROPERTIES | | | | |
|-----------------------------|--|--------|--|--|
| Area (in²) | Total cross-sectional steel area | 1.016 | | |
| Weight (lb/ft) | Linear weight per foot | 3.46 | | |
| Ix (in ⁴) | Moment of inertia about the x-axis | 4.565 | | |
| Sx (in³) | Section modulus about the x-axis | 1.660 | | |
| Rx (in) | Radius of gyration about the x-axis | 2.119 | | |
| ly (in ⁴) | Moment of inertia about the y-axis | 0.516 | | |
| Ry (in) | Radius of gyration about the y-axis | 0.713 | | |
| | | | | |
| EFFECTIVE PROPERTIES | | | | |
| Ix (in³) | Effective moment of inertia (x-axis) | 4.566 | | |
| Sx (in³) | Effective section modulus (x-axis) | 1.650 | | |
| Ma (in-k) | Allowable bending moment-effective section modulus | 56.92 | | |
| Mad (in-k) | Allowable bending moment-distortional bucking | 54.74 | | |
| Va _g (lb) | Allowable shear force in web | 9518 | | |
| Va _{net} (lb) | Allowable strong axis sheer at punchout | 3026 | | |
| | | | | |
| TORSIONAL PROPERTIES | | | | |
| J x 1000 (in ⁴) | St. Venant torsional constant | 3.504 | | |
| Cw (in ⁶) | Warping constant | 3.384 | | |
| Xo (in) | Distance from shear center to centroid | -1.428 | | |
| m (in) | Distance from shear center to mid-plane of web | 0.882 | | |
| Ro (in) | Polar radius of gyration | 2.653 | | |
| Beta | Torsional Flexural Constant | 0.710 | | |





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.

CODES AND STANDARDS:

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

- International Building Code (IBC): 2006–2024
- AISI S100-16 (2020) w/S2-20 (effective properties include cold-work strength increase)
- Sheet Steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized Coating: ASTM A653/A653M

Structural Members:

- ASTM C955; AISI S240
- Installed per ASTM C1007

Additional Standards:

• AISI S201; AISI S202

3rd Party Certification

For LEED Letter requests please submit through: www.buysuperstud.com