# PRODUCT SUBMITTAL SHEET

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

## 600S350-118 (Standard Punch)

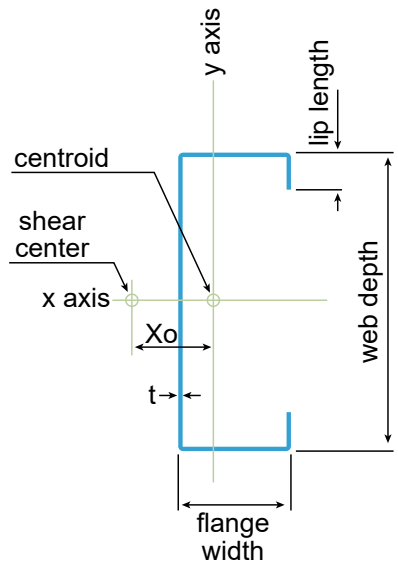
Product Description: 6” Stud 10GA (3-1/2” Flange, 118 mil)

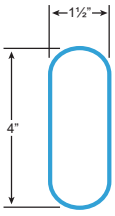
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

| GEOMETRIC PROPERTIES | | | |
|---|---|---|---|
| Web Depth | 6 in. | Yield Strength, Fy | 50 ksi |
| Flange Width | 3.5 in. | Design Thickness | 0.1242 in. |
| Lip Length | 1.000 in. | Min. Steel Thickness | 0.1180 in. |

| GROSS PROPERTIES | | |
|---|---|---|
| Area ($in^2$) | Total cross-sectional steel area | 1.748 |
| Weight (lb/ft) | Linear weight per foot | 5.95 |
| Ix ($in^4$) | Moment of inertia about the x-axis | 10.306 |
| Sx ($in^3$) | Section modulus about the x-axis | 3.435 |
| Rx (in) | Radius of gyration about the x-axis | 2.428 |
| Iy ($in^4$) | Moment of inertia about the y-axis | 2.979 |
| Ry (in) | Radius of gyration about the y-axis | 1.305 |
| | | |
| EFFECTIVE PROPERTIES | | |
| Ix ($in^3$) | Effective moment of inertia (x-axis) | 10.310 |
| Sx ($in^3$) | Effective section modulus (x-axis) | 3.294 |
| Ma (in-k) | Allowable bending moment-effective section modulus | 98.63 |
| Mad (in-k) | Allowable bending moment-distortional bucking | 97.77 |
| $Va_g$ (lb) | Allowable shear force in web | 12526 |
| $Va_{net}$ (lb) | Allowable strong axis sheer at punchout | 3622 |
| | | |
| TORSIONAL PROPERTIES | | |
| J x 1000 ($in^4$) | St. Venant torsional constant | 8.990 |
| Cw ($in^6$) | Warping constant | 25.791 |
| Xo (in) | Distance from shear center to centroid | -2.951 |
| m (in) | Distance from shear center to mid-plane of web | 1.742 |
| Ro (in) | Polar radius of gyration | 4.038 |
| Beta | Torsional Flexural Constant | 0.466 |




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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