

362S300-33² (Standard Punch)

Product Description: 3-5/8" Stud STR 20GA (3" Flange, 33 mil)

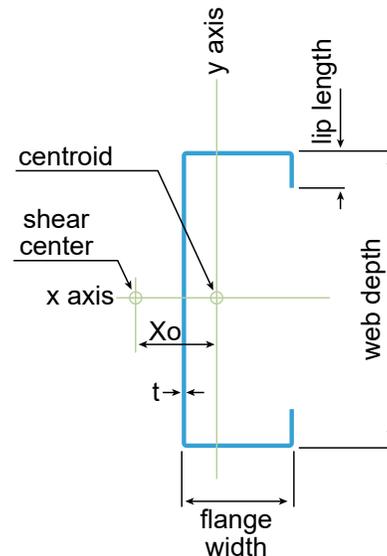
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

| GEOMETRIC PROPERTIES | | | |
|----------------------|-----------|--------------------------------|------------|
| Web Depth | 3.625 in. | Yield Strength, F _y | 33 ksi |
| Flange Width | 3 in. | Design Thickness | 0.0346 in. |
| Lip Length | 0.625 in. | Min. Design Thickness | 0.0329 in. |

*2 When web height-to-thickness ratio exceeds 260, or flange width-to-thickness ratio exceeds 60, effective properties are not calculated. (Limitations in AISI Section B4.1)

| GROSS PROPERTIES | | |
|-----------------------------------|--|--------|
| Area (in ²) | Total cross-sectional steel area | 0.366 |
| Weight (lb/ft) | Linear weight per foot | 1.24 |
| I _x (in ⁴) | Moment of inertia about the x-axis | 0.871 |
| S _x (in ³) | Section modulus about the x-axis | 0.481 |
| R _x (in) | Radius of gyration about the x-axis | 1.543 |
| I _y (in ⁴) | Moment of inertia about the y-axis | 0.463 |
| R _y (in) | Radius of gyration about the y-axis | 1.125 |
| EFFECTIVE PROPERTIES | | |
| I _x (in ³) | Effective moment of inertia (x-axis) | - |
| S _x (in ³) | Effective section modulus (x-axis) | - |
| M _a (in-k) | Allowable bending moment-effective section modulus | - |
| M _{ad} (in-k) | Allowable bending moment-distortional buckling | - |
| V _g (lb) | Allowable shear force in web | - |
| V _{net} (lb) | Allowable strong axis shear at punchout | - |
| TORSIONAL PROPERTIES | | |
| J x 1000 (in ⁴) | St. Venant torsional constant | 0.146 |
| C _w (in ⁶) | Warping constant | 1.478 |
| X _o (in) | Distance from shear center to centroid | -2.686 |
| m (in) | Distance from shear center to mid-plane of web | 1.537 |
| R _o (in) | Polar radius of gyration | 3.296 |
| Beta | Torsional Flexural Constant | 0.336 |



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