

## 362S162-43 (Standard Punch)

Product Description: 3-5/8" Stud 18GA (1-5/8" Flange, 43 mil)

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

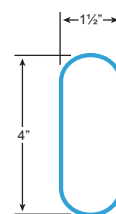
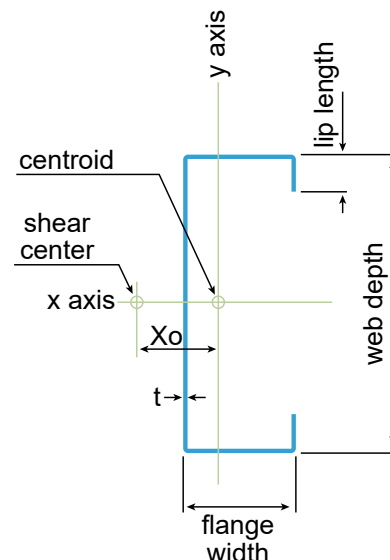
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

| GEOMETRIC PROPERTIES |           |                       |            |
|----------------------|-----------|-----------------------|------------|
| Web Depth            | 3.625 in. | Yield Strength, $F_y$ | 33 ksi     |
| Flange Width         | 1.625 in. | Design Thickness      | 0.0451 in. |
| Lip Length           | 0.500 in. | Min. Design Thickness | 0.0428 in. |

| GROSS PROPERTIES         |                                     |       |
|--------------------------|-------------------------------------|-------|
| Area (in <sup>2</sup> )  | Total cross-sectional steel area    | 0.340 |
| Weight (lb/ft)           | Linear weight per foot              | 1.16  |
| $I_x$ (in <sup>4</sup> ) | Moment of inertia about the x-axis  | 0.710 |
| $S_x$ (in <sup>3</sup> ) | Section modulus about the x-axis    | 0.392 |
| $R_x$ (in)               | Radius of gyration about the x-axis | 1.445 |
| $I_y$ (in <sup>4</sup> ) | Moment of inertia about the y-axis  | 0.127 |
| $R_y$ (in)               | Radius of gyration about the y-axis | 0.611 |

| EFFECTIVE PROPERTIES     |                                                    |       |
|--------------------------|----------------------------------------------------|-------|
| $I_x$ (in <sup>3</sup> ) | Effective moment of inertia (x-axis)               | 0.710 |
| $S_x$ (in <sup>3</sup> ) | Effective section modulus (x-axis)                 | 0.380 |
| $M_a$ (in-k)             | Allowable bending moment-effective section modulus | 7.50  |
| $M_{ad}$ (in-k)          | Allowable bending moment-distortional buckling     | 7.00  |
| $V_a$ (lb)               | Allowable shear force in web                       | 1740  |
| $V_{a_{net}}$ (lb)       | Allowable strong axis shear at punchout            | 676   |

| TORSIONAL PROPERTIES               |                                                |        |
|------------------------------------|------------------------------------------------|--------|
| $J \times 1000$ (in <sup>4</sup> ) | St. Venant torsional constant                  | 0.230  |
| $C_w$ (in <sup>6</sup> )           | Warping constant                               | 0.376  |
| $X_o$ (in)                         | Distance from shear center to centroid         | -1.297 |
| $m$ (in)                           | Distance from shear center to mid-plane of web | 0.782  |
| $R_o$ (in)                         | Polar radius of gyration                       | 2.036  |
| Beta                               | Torsional Flexural Constant                    | 0.594  |



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](http://www.buysuperstud.com)