

## 362S300-54 (50ksi) (Standard Punch)

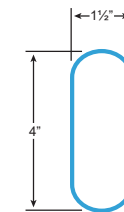
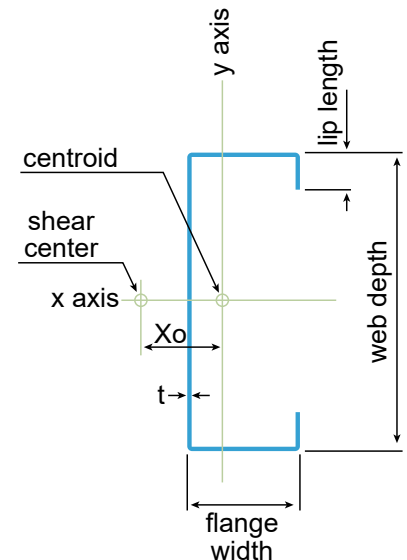
Product Description: 3-5/8" Stud 16GA (3" Flange, 54 mil)

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

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

| GEOMETRIC PROPERTIES |           |                       |            |
|----------------------|-----------|-----------------------|------------|
| Web Depth            | 3.625 in. | Yield Strength, $F_y$ | 50 ksi     |
| Flange Width         | 3 in.     | Design Thickness      | 0.0566 in. |
| Lip Length           | 0.625 in. | Min. Steel Thickness  | 0.0538 in. |

| GROSS PROPERTIES                   |                                                    |        |
|------------------------------------|----------------------------------------------------|--------|
| Area (in <sup>2</sup> )            | Total cross-sectional steel area                   | 0.592  |
| Weight (lb/ft)                     | Linear weight per foot                             | 2.01   |
| $I_x$ (in <sup>4</sup> )           | Moment of inertia about the x-axis                 | 1.391  |
| $S_x$ (in <sup>3</sup> )           | Section modulus about the x-axis                   | 0.767  |
| $R_x$ (in)                         | Radius of gyration about the x-axis                | 1.533  |
| $I_y$ (in <sup>4</sup> )           | Moment of inertia about the y-axis                 | 0.734  |
| $R_y$ (in)                         | Radius of gyration about the y-axis                | 1.114  |
| EFFECTIVE PROPERTIES               |                                                    |        |
| $I_x$ (in <sup>3</sup> )           | Effective moment of inertia (x-axis)               | 1.311  |
| $S_x$ (in <sup>3</sup> )           | Effective section modulus (x-axis)                 | 0.540  |
| $M_a$ (in-k)                       | Allowable bending moment-effective section modulus | 16.18  |
| $M_{ad}$ (in-k)                    | Allowable bending moment-distortional buckling     | 16.75  |
| $V_a$ (lb)                         | Allowable shear force in web                       | 3372   |
| $V_{a_{net}}$ (lb)                 | Allowable strong axis shear at punchout            | 1016   |
| TORSIONAL PROPERTIES               |                                                    |        |
| $J \times 1000$ (in <sup>4</sup> ) | St. Venant torsional constant                      | 0.632  |
| $C_w$ (in <sup>6</sup> )           | Warping constant                                   | 2.316  |
| $X_o$ (in)                         | Distance from shear center to centroid             | -2.659 |
| $m$ (in)                           | Distance from shear center to mid-plane of web     | 1.522  |
| $R_o$ (in)                         | Polar radius of gyration                           | 3.265  |
| Beta                               | Torsional Flexural Constant                        | 0.337  |



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/EB Metal US products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006–2024
- AISI S100-16 (2020) w/S2-20
- 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) or [www.ebmetal.us](http://www.ebmetal.us)

NEW HAMPSHIRE FACILITY  
 12 TALLWOOD DRIVE  
 BOW, NH 03304  
 P: 603-216-1573

MISSISSIPPI FACILITY  
 53 W L RUNNELS IND DR  
 HATTIESBURG, MS 39401  
 P: 601-584-7550

NEW JERSEY FACILITY  
 2960 WOODBRIDGE AVE  
 EDISON, NJ 08837  
 P: 732-662-6200