

## 362S125-30 DW30 (Standard Punch)

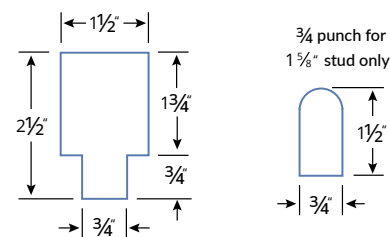
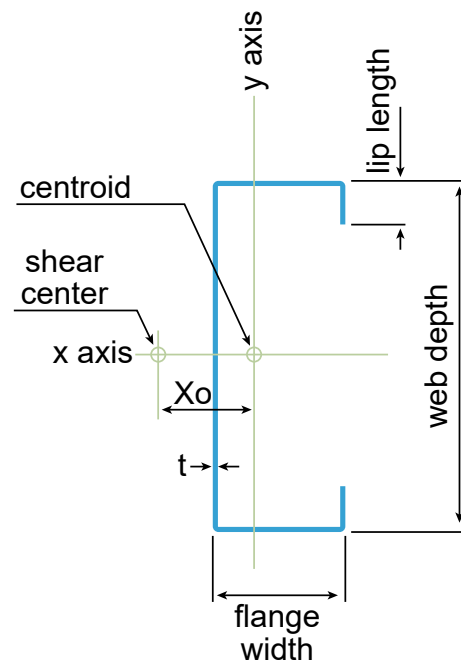
Product Description: 3-5/8" Stud 20GA (1 1/4" Flange, 30mil)

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

Specification Section: 09.22.16 (Non-Structural Metal Framing)

| GEOMETRIC PROPERTIES |           |                       |            |
|----------------------|-----------|-----------------------|------------|
| Web Depth            | 3.625 in. | Yield Strength, Fy    | 33 ksi     |
| Flange Width         | 1.25 in.  | Design Thickness      | 0.0312 in. |
| Lip Length           | 0.188 in. | Min. Design Thickness | 0.0296 in. |

| GROSS PROPERTIES                  |                                                    |        |
|-----------------------------------|----------------------------------------------------|--------|
| Area (in <sup>2</sup> )           | Total cross-sectional steel area                   | 0.194  |
| Weight (lb/ft)                    | Linear weight per foot                             | 0.66   |
| I <sub>x</sub> (in <sup>4</sup> ) | Moment of inertia about the x-axis                 | 0.381  |
| S <sub>x</sub> (in <sup>3</sup> ) | Section modulus about the x-axis                   | 0.210  |
| R <sub>x</sub> (in)               | Radius of gyration about the x-axis                | 1.402  |
| I <sub>y</sub> (in <sup>4</sup> ) | Moment of inertia about the y-axis                 | 0.033  |
| R <sub>y</sub> (in)               | Radius of gyration about the y-axis                | 0.415  |
| EFFECTIVE PROPERTIES              |                                                    |        |
| I <sub>x</sub> (in <sup>3</sup> ) | Effective moment of inertia (x-axis)               | 0.376  |
| S <sub>x</sub> (in <sup>3</sup> ) | Effective section modulus (x-axis)                 | 0.162  |
| M <sub>a</sub> (in-k)             | Allowable bending moment-effective section modulus | 3.21   |
| M <sub>ad</sub> (in-k)            | Allowable bending moment-distortional buckling     | 2.83   |
| V <sub>a<sub>g</sub></sub> (lb)   | Allowable shear force in web                       | 793    |
| V <sub>a<sub>net</sub></sub> (lb) | Allowable strong axis shear at punchout            | 449    |
| TORSIONAL PROPERTIES              |                                                    |        |
| J x 1000 (in <sup>4</sup> )       | St. Venant torsional constant                      | 0.063  |
| C <sub>w</sub> (in <sup>6</sup> ) | Warping constant                                   | 0.086  |
| X <sub>o</sub> (in)               | Distance from shear center to centroid             | -0.773 |
| m (in)                            | Distance from shear center to mid-plane of web     | 0.482  |
| R <sub>o</sub> (in)               | Polar radius of gyration                           | 1.654  |
| Beta                              | Torsional Flexural Constant                        | 0.782  |



Non-structural punchout 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
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- Tested in accordance with ASTM E119; ANSI/UL 263
- Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202
- Meets ASTM C754 when installed properly in structure

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