

## 250S125-18 (Standard Punch)

Product Line: 250EDS125-18- The Edge™ Performance 20 (18 mil)

Coating: G40 (standard), G60 (special order)

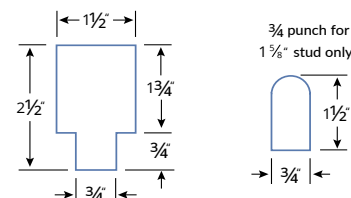
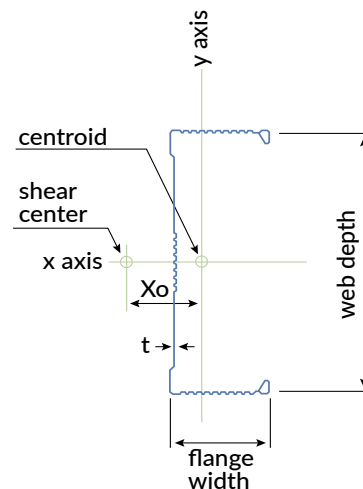
Specification Section: 09.22.16 (Non-Structural Metal Framing)

| GEOMETRIC PROPERTIES |          |                      |            |
|----------------------|----------|----------------------|------------|
| Web Depth            | 2.5 in.  | Yield Strength, Fy   | 55 ksi     |
| Flange Width         | 1.25 in. | Design Thickness     | 0.0188 in. |
| Lip Length           | .350 in. | Min. Steel Thickness | 0.0179 in. |

| GROSS PROPERTIES                  |                                     |        |
|-----------------------------------|-------------------------------------|--------|
| Area (in <sup>2</sup> )           | Total cross-sectional steel area    | 0.1020 |
| Weight (lb/ft)                    | Linear weight per foot              | 0.347  |
| I <sub>x</sub> (in <sup>4</sup> ) | Moment of inertia about the x-axis  | 0.1070 |
| S <sub>x</sub> (in <sup>3</sup> ) | Section modulus about the x-axis    | 0.0856 |
| R <sub>x</sub> (in)               | Radius of gyration about the x-axis | 1.024  |
| I <sub>y</sub> (in <sup>4</sup> ) | Moment of inertia about the y-axis  | 0.0203 |
| R <sub>y</sub> (in)               | Radius of gyration about the y-axis | 0.4465 |

| EFFECTIVE PROPERTIES               |                                      |        |
|------------------------------------|--------------------------------------|--------|
| Area (in <sup>2</sup> )            | Effective area                       | 0.0568 |
| I <sub>xe</sub> (in <sup>3</sup> ) | Effective moment of inertia (x-axis) | 0.0870 |
| S <sub>xe</sub> (in <sup>3</sup> ) | Effective section modulus (x-axis)   | 0.0616 |
| Ma (in-k)                          | Allowable moment capacity            | 1.6946 |
| V <sub>y</sub> (lb)                | Allowable shear force in web         | 244    |

| TORSIONAL PROPERTIES              |                                        |        |
|-----------------------------------|----------------------------------------|--------|
| J x 1000 (in <sup>4</sup> )       | St. Venant torsional constant          | 0.0120 |
| C <sub>w</sub> (in <sup>6</sup> ) | Warping constant                       | 0.0246 |
| X <sub>o</sub> (in)               | Distance from shear center to centroid | 0.9123 |
| R <sub>o</sub> (in)               | Polar radius of gyration               | 1.4424 |
| Beta                              | Torsional Flexural Constant            | 0.6000 |



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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