

250S125-18 (Standard Punch)

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

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

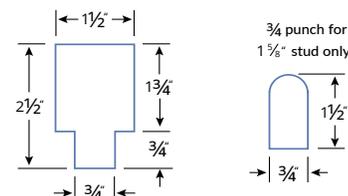
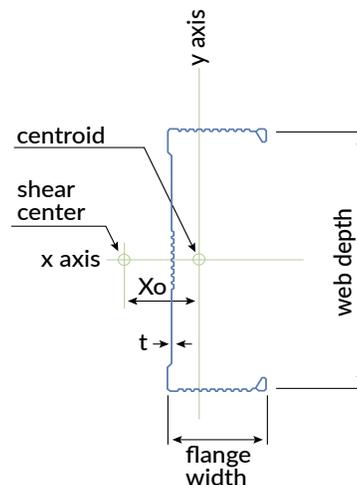
Specification Section: 09.22.16 (Non-Structural Metal Framing)

| 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. Design Thickness | 0.0179 in. |

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

| EFFECTIVE PROPERTIES | | |
|------------------------------------|--------------------------------------|--------|
| Area (in ²) | Effective area | 0.0568 |
| I _{xe} (in ³) | Effective moment of inertia (x-axis) | 0.0870 |
| S _{xe} (in ³) | Effective section modulus (x-axis) | 0.0616 |
| Ma (in-k) | Allowable moment capacity | 1.6946 |
| V _y (lb) | Allowable shear force in web | 244 |

| TORSIONAL PROPERTIES | | |
|-----------------------------------|--|--------|
| J x 1000 (in ⁴) | St. Venant torsional constant | 0.0120 |
| C _w (in ⁶) | Warping constant | 0.0246 |
| X _o (in) | Distance from shear center to centroid | 0.9123 |
| R _o (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

For LEED Letter requests please submit through: www.buysuperstud.com

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