

# PROJECT SUBMITTAL SHEET

FOR MORE INFORMATION OR QUESTIONS,  
PLEASE CONTACT THE TECHNICAL DEPARTMENT:  
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SUPER STUD: TECHNICAL@BUYSUPERSTUD.COM

## 600S125-18 (Standard Punch)

**Product Line:** 600NS125-18 NitroStud 18 mil (25 ga.)

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

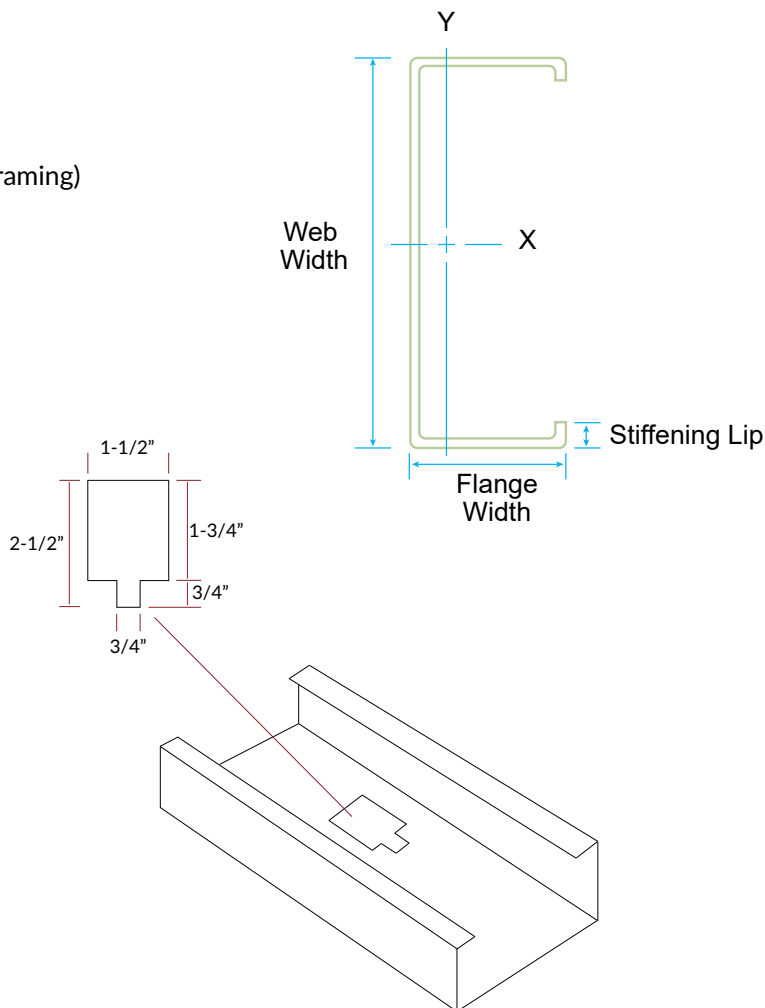
**Specification Section:** 09.22.16 (Non-Structural Metal Framing)

| GEOMETRIC PROPERTIES |          |                       |            |
|----------------------|----------|-----------------------|------------|
| Web Depth            | 6 in.    | Yield Strength, Fy    | 33 ksi     |
| Flange Width         | 1.25 in. | Design Thickness      | 0.0186 in. |
| Lip Length           | .25 in.  | Min. Design Thickness | 0.0179 in. |

| GROSS PROPERTIES                  |                                     |        |
|-----------------------------------|-------------------------------------|--------|
| Area (in <sup>2</sup> )           | Total cross-sectional steel area    | 0.165  |
| Weight (lb/ft)                    | Linear weight per foot              | 0.56   |
| I <sub>x</sub> (in <sup>4</sup> ) | Moment of inertia about the x-axis  | 0.8058 |
| S <sub>x</sub> (in <sup>3</sup> ) | Section modulus about the x-axis    | 0.2694 |
| R <sub>x</sub> (in)               | Radius of gyration about the x-axis | 2.2066 |
| I <sub>y</sub> (in <sup>4</sup> ) | Moment of inertia about the y-axis  | 0.0233 |
| R <sub>y</sub> (in)               | Radius of gyration about the y-axis | 0.3749 |

| EFFECTIVE PROPERTIES               |                                      |        |
|------------------------------------|--------------------------------------|--------|
| I <sub>xe</sub> (in <sup>3</sup> ) | Effective moment of inertia (x-axis) | 0.6319 |
| S <sub>xe</sub> (in <sup>3</sup> ) | Effective section modulus (x-axis)   | 0.1759 |
| M <sub>a</sub> (in-k)              | Allowable moment capacity            | 2.902  |
| M <sub>ad</sub> (in-k)             | Design moment capacity               | 2.622  |
| V <sub>ag</sub> (lb)               | Allowable web crippling              | 153    |
| V <sub>anet</sub> (lb)             | Net allowable shear                  | 153    |

| TORSIONAL PROPERTIES              |                                        |         |
|-----------------------------------|----------------------------------------|---------|
| J x 1000 (in <sup>4</sup> )       | St. Venant torsional constant          | 0.0191  |
| C <sub>w</sub> (in <sup>6</sup> ) | Warping constant                       | 0.1686  |
| X <sub>o</sub> (in)               | Distance from shear center to centroid | -0.5789 |
| m (in)                            | Torsional radius of gyration           | 0.2999  |
| R <sub>o</sub> (in)               | Polar radius of gyration               | 2.3118  |
| Beta                              | Torsional Flexural Constant            | 0.9373  |



### CODES AND STANDARDS:

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

- International Building Code (IBC): 2006 – 2024
- AISI S100-16 (2020) w/S2-20 and AISI S220-20
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U411, U412, U419, U420, U425, U435, U451, U465, UL 263, CIKV.R38201, CIKV7.R38201
- 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:** ebmetal.us. or buysuperstud.com

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