

# PROJECT SUBMITTAL SHEET

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



## 400T200-18 (Standard Punch)

**Product Line:** 400EDT200-18 - The Edge™ Performance 20

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

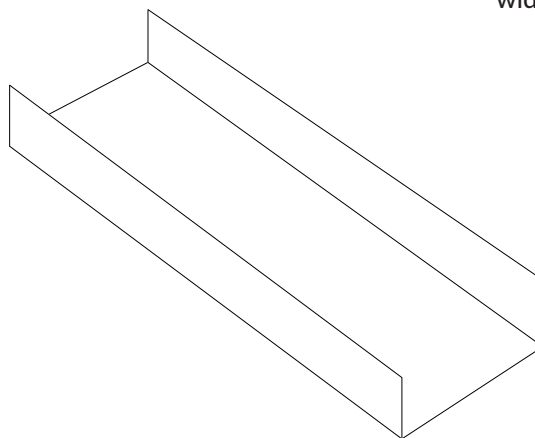
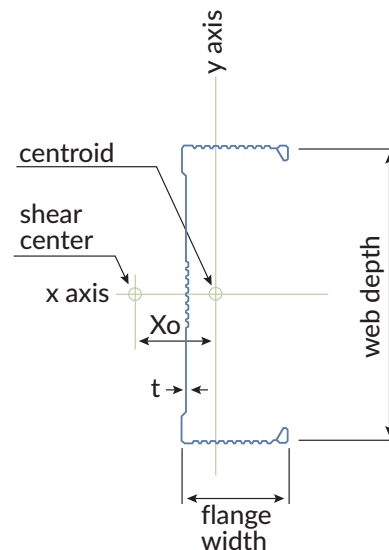
**Specification Section:** 09.22.16 (Non-Structural Metal Framing)

| GEOMETRIC PROPERTIES |        |                       |            |
|----------------------|--------|-----------------------|------------|
| Web Depth            | 4 in.  | Design Thickness      | 0.0188 in. |
| Flange Width         | 2 in.  | Min. Design Thickness | 0.0179 in. |
| Yield Strength, Fy   | 55 ksi |                       |            |

| GROSS PROPERTIES                  |                                     |        |
|-----------------------------------|-------------------------------------|--------|
| Area (in <sup>2</sup> )           | Total cross-sectional steel area    | 0.1513 |
| Weight (lb/ft)                    | Linear weight per foot              | 0.514  |
| I <sub>x</sub> (in <sup>4</sup> ) | Moment of inertia about the x-axis  | 0.4195 |
| S <sub>x</sub> (in <sup>3</sup> ) | Section modulus about the x-axis    | 0.2038 |
| R <sub>x</sub> (in)               | Radius of gyration about the x-axis | 1.665  |
| I <sub>y</sub> (in <sup>4</sup> ) | Moment of inertia about the y-axis  | 0.0622 |
| R <sub>y</sub> (in)               | Radius of gyration about the y-axis | 0.6411 |
| h/t                               | Depth-to-thickness ratio            | 208    |

| EFFECTIVE PROPERTIES               |                                      |        |
|------------------------------------|--------------------------------------|--------|
| Area (in <sup>2</sup> )            | Effective area                       | 0.0312 |
| I <sub>xe</sub> (in <sup>4</sup> ) | Effective moment of inertia (x-axis) | 0.1816 |
| S <sub>xe</sub> (in <sup>3</sup> ) | Effective section modulus (x-axis)   | 0.0596 |
| M <sub>a</sub> (in-k)              | Allowable moment capacity            | 1.1923 |
| V <sub>y</sub> (lb)                | Allowable shear force in web         | 118    |

| TORSIONAL PROPERTIES              |                                        |        |
|-----------------------------------|----------------------------------------|--------|
| J x 1000 (in <sup>4</sup> )       | St. Venant torsional constant          | 0.0178 |
| C <sub>w</sub> (in <sup>6</sup> ) | Warping constant                       | 0.1818 |
| X <sub>o</sub> (in)               | Distance from shear center to centroid | 1.2382 |
| R <sub>o</sub> (in)               | Polar radius of gyration               | 2.1720 |
| Beta                              | Torsional Flexural Constant            | 0.6750 |



### CODES AND STANDARDS:

*Super Stud/EB Metal US 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:* ebmetal.us. or buysuperstud.com

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