

## 400T200-18 Track

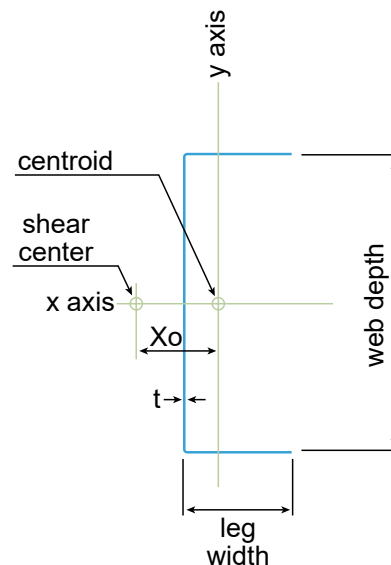
Product Line: 400EDT200-18- The Edge™ Performance 20 (18 mil)

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

Specification Section: 09.22.16 (Non-Structural Metal Framing)

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

| 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 |
| EFFECTIVE PROPERTIES               |                                        |        |
| Area (in <sup>2</sup> )            | Effective area                         | 0.0312 |
| I <sub>xe</sub> (in <sup>3</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
- AISI S100-16 (2020) w/S2-20
- Sheet Steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized Coating: ASTM A653/A653M

### Structural Members:

- ASTM C955; AISI S240
- Installed per ASTM C1007

### Additional Standards:

- AISI S201; AISI S202

### 3rd Party Certification

For LEED Letter requests please submit through:  
[www.buysuperstud.com](http://www.buysuperstud.com) or [www.ebmetal.us](http://www.ebmetal.us)

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