

## 162T200-18 Track

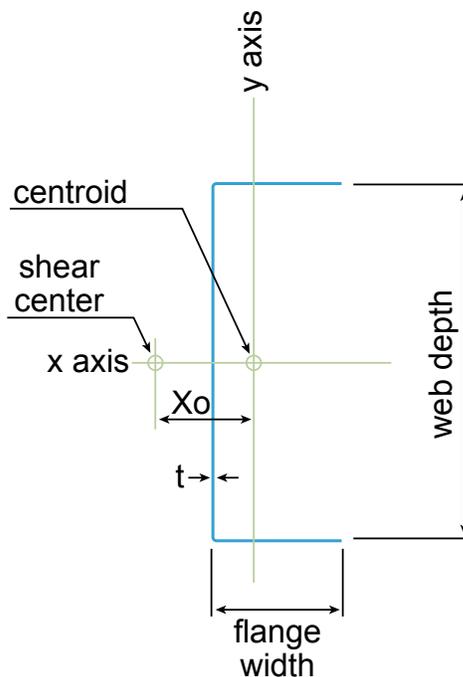
Product Line: 162EDT200-18- The Edge™ Performance 20 (18 mil)

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

Specification Section: 09.22.16 (Non-Structural Metal Framing)

| GEOMETRIC PROPERTIES |           |                       |            |
|----------------------|-----------|-----------------------|------------|
| Web Depth            | 1.625 in. | Yield Strength, Fy    | 55 ksi     |
| Leg Width            | 2 in.     | Design Thickness      | 0.0188 in. |
|                      |           | Min. Design Thickness | 0.0179 in. |

| GROSS PROPERTIES                   |  |        |
|------------------------------------|--|--------|
| Area (in <sup>2</sup> )            | Total cross-sectional steel area       | 0.1066 |
| Weight (lb/ft)                     | Linear weight per foot                 | 0.362  |
| I <sub>x</sub> (in <sup>4</sup> )  | Moment of inertia about the x-axis     | 0.0632 |
| S <sub>x</sub> (in <sup>3</sup> )  | Section modulus about the x-axis       | 0.0725 |
| R <sub>x</sub> (in)                | Radius of gyration about the x-axis    | 0.770  |
| I <sub>y</sub> (in <sup>4</sup> )  | Moment of inertia about the y-axis     | 0.0468 |
| R <sub>y</sub> (in)                | Radius of gyration about the y-axis    | 0.6626 |
| EFFECTIVE PROPERTIES               |  |        |
| Area (in <sup>2</sup> )            | Effective area                         | 0.0298 |
| I <sub>xe</sub> (in <sup>3</sup> ) | Effective moment of inertia (x-axis)   | 0.0294 |
| S <sub>xe</sub> (in <sup>3</sup> ) | Effective section modulus (x-axis)     | 0.0235 |
| Ma (in-k)                          | Allowable moment capacity              | 0.4700 |
| V <sub>y</sub> (lb)                | Allowable shear force in web           | 333    |
| TORSIONAL PROPERTIES               |  |        |
| J x 1000 (in <sup>4</sup> )        | St. Venant torsional constant          | 0.0126 |
| C <sub>w</sub> (in <sup>6</sup> )  | Warping constant                       | 0.0249 |
| X <sub>o</sub> (in)                | Distance from shear center to centroid | 1.5746 |
| R <sub>o</sub> (in)                | Polar radius of gyration               | 1.8738 |
| Beta                               | Torsional Flexural Constant            | 0.2939 |



### 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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