

## 250T125-43 Track

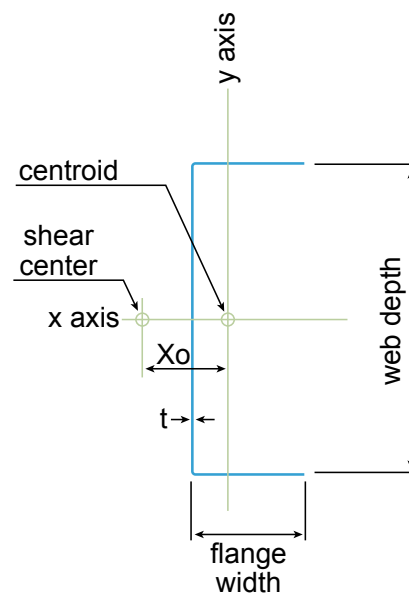
Product Description: 2-1/2" Track 18GA (1-1/4" Leg, 43mil)

Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

| GEOMETRIC PROPERTIES |          |                      |            |
|----------------------|----------|----------------------|------------|
| Web Depth            | 2.5 in.  | Yield Strength, Fy   | 33 ksi     |
| Leg Width            | 1.25 in. | Design Thickness     | 0.0451 in. |
|                      |          | Min. Steel Thickness | 0.0428 in. |

| GROSS PROPERTIES                  |                                                    |        |
|-----------------------------------|----------------------------------------------------|--------|
| Area (in <sup>2</sup> )           | Total cross-sectional steel area                   | 0.225  |
| Weight (lb/ft)                    | Linear weight per foot                             | 0.77   |
| I <sub>x</sub> (in <sup>4</sup> ) | Moment of inertia about the x-axis                 | 0.250  |
| S <sub>x</sub> (in <sup>3</sup> ) | Section modulus about the x-axis                   | 0.188  |
| R <sub>x</sub> (in)               | Radius of gyration about the x-axis                | 1.055  |
| I <sub>y</sub> (in <sup>4</sup> ) | Moment of inertia about the y-axis                 | 0.035  |
| R <sub>y</sub> (in)               | Radius of gyration about the y-axis                | 0.395  |
| EFFECTIVE PROPERTIES              |                                                    |        |
| I <sub>x</sub> (in <sup>3</sup> ) | Effective moment of inertia (x-axis)               | 0.231  |
| S <sub>x</sub> (in <sup>3</sup> ) | Effective section modulus (x-axis)                 | 0.148  |
| M <sub>a</sub> (in-k)             | Allowable bending moment-effective section modulus | 2.92   |
| V <sub>a<sub>g</sub></sub> (lb)   | Allowable shear force in web                       | 1356   |
| TORSIONAL PROPERTIES              |                                                    |        |
| J x 1000 (in <sup>4</sup> )       | St. Venant torsional constant                      | 0.1526 |
| C <sub>w</sub> (in <sup>6</sup> ) | Warping constant                                   | 0.042  |
| X <sub>o</sub> (in)               | Distance from shear center to centroid             | -0.755 |
| m (in)                            | Distance from shear center to mid-plane of web     | 0.453  |
| R <sub>o</sub> (in)               | Polar radius of gyration                           | 1.356  |
| Beta                              | Torsional Flexural Constant                        | 0.690  |



### CODES AND STANDARDS:

Super Stud 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

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