

## 1000T200-97 (50ksi) Track

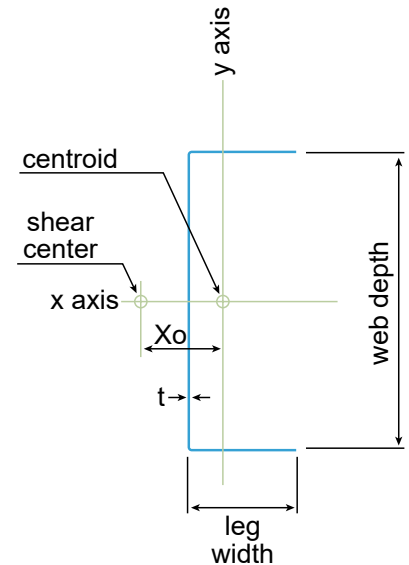
Product Description: 10" Track 12GA (2" Leg, 97mil)

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

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

| GEOMETRIC PROPERTIES |        |                       |            |
|----------------------|--------|-----------------------|------------|
| Web Depth            | 10 in. | Yield Strength, $F_y$ | 50 ksi     |
| Leg Width            | 2 in.  | Design Thickness      | 0.1017 in. |
|                      |        | Min. Steel Thickness  | 0.0966 in. |

| GROSS PROPERTIES                   |                                                    |        |
|------------------------------------|----------------------------------------------------|--------|
| Area (in <sup>2</sup> )            | Total cross-sectional steel area                   | 1.422  |
| Weight (lb/ft)                     | Linear weight per foot                             | 4.84   |
| $I_x$ (in <sup>4</sup> )           | Moment of inertia about the x-axis                 | 19.093 |
| $S_x$ (in <sup>3</sup> )           | Section modulus about the x-axis                   | 3.687  |
| $R_x$ (in)                         | Radius of gyration about the x-axis                | 3.665  |
| $I_y$ (in <sup>4</sup> )           | Moment of inertia about the y-axis                 | 0.397  |
| $R_y$ (in)                         | Radius of gyration about the y-axis                | 0.528  |
| EFFECTIVE PROPERTIES               |                                                    |        |
| $I_x$ (in <sup>3</sup> )           | Effective moment of inertia (x-axis)               | 18.595 |
| $S_x$ (in <sup>3</sup> )           | Effective section modulus (x-axis)                 | 3.086  |
| $M_a$ (in-k)                       | Allowable bending moment-effective section modulus | 92.39  |
| $V_a$ (lb)                         | Allowable shear force in web                       | 9505   |
| TORSIONAL PROPERTIES               |                                                    |        |
| $J \times 1000$ (in <sup>4</sup> ) | St. Venant torsional constant                      | 4.9010 |
| $C_w$ (in <sup>6</sup> )           | Warping constant                                   | 7.924  |
| $X_o$ (in)                         | Distance from shear center to centroid             | -0.791 |
| $m$ (in)                           | Distance from shear center to mid-plane of web     | 0.519  |
| $R_o$ (in)                         | Polar radius of gyration                           | 3.786  |
| Beta                               | Torsional Flexural Constant                        | 0.956  |



### 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)