

## 925T250-54 (50ksi, CP60)

925 (9-1/4") structural track with T250 (2-1/2") leg - 54mils (16ga)

Coating: CP60 per AISI S240

Color Code: Green

### Geometric Properties

Web depth: 9.448 in

Thickness: 54mils (16ga)

Yield strength,  $F_y$ : 50 ksi

Leg width: 2.50 in

Design Thickness: 0.0566 in

\* $F_y$  with Cold-Work,  $F_{ya}$ : 50.0 ksi

Min. steel thickness: 0.0538 in

Ultimate,  $F_u$ : 65.0 ksi

#### Gross Section Properties of Full Section, Strong Axis

|                                  |                       |
|----------------------------------|-----------------------|
| Cross sectional area (A)         | 0.806 in <sup>2</sup> |
| Member weight per foot of length | 2.74 lb/ft            |
| Moment of inertia (Ix)           | 9.957 in <sup>4</sup> |
| Section Modulus (Sx)             | 2.108 in <sup>3</sup> |
| Radius of gyration (Rx)          | 3.515 in              |
| Gross moment of inertia (Iy)     | 0.421 in <sup>4</sup> |
| Gross radius of gyration (Ry)    | 0.723 in              |

#### Effective Section Properties, Strong Axis

|                                       |                       |
|---------------------------------------|-----------------------|
| Effective Area (Ae)                   | 0.248 in <sup>2</sup> |
| Moment of inertia for deflection (Ix) | 8.343 in <sup>4</sup> |
| Section modulus (Sx)                  | 1.101 in <sup>3</sup> |
| Allowable bending moment (Ma)         | 32.98 in-k            |
| Allowable shear force in web          | 1761 lb               |

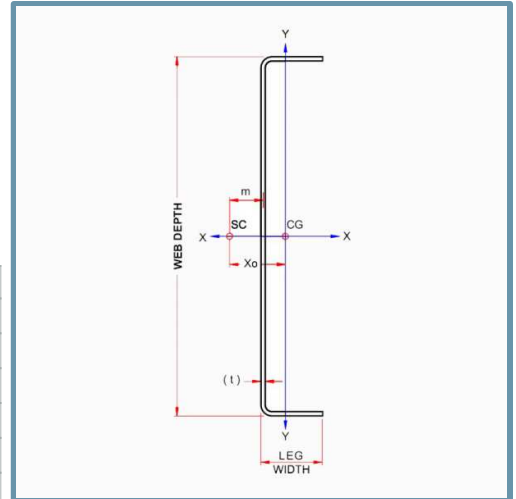
#### Torsional Properties

|  |                       |
|--|-----------------------|
| St. Venant torsional constant (J x 1000)             | 0.861 in <sup>4</sup> |
| Warping constant (Cw)                                | 6.795 in <sup>6</sup> |
| Distance from shear center to neutral axis (Xo)      | -1.186 in             |
| Distance between shear center and web centerline (m) | 0.757 in              |
| Radii of gyration (Ro)                               | 3.780 in              |
| Torsional flexural constant (Beta)                   | 0.902                 |

- Effective properties incorporate the strength increase from the cold work of forming.

### Code Approvals & Performance Standards

- [AISI S100-16 \(2020\) w/S2-20](#) North American Specification for the Design of Cold-Formed Steel Structural Members
- [AISI S240-20](#) North American Standard for Cold-Formed Steel Structural Framing
  - (Compliant to ASTM C955, but IBC replaced with AISI S200 in IBC 2015, AISI S240 in IBC 2018)
  - Section A3 Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
  - Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
  - Section A5 Products - Thickness, shapes, tolerances, identification
  - Section C Installation - (Referencing ASTM C1007)
- [AISI S202-20](#) Code of Standard Practice for Cold-Formed Steel Structural Framing
  - Section F3 Delivery, Handling and Storage of Materials
- [SDS For ASTM A1003 Steel Framing Products](#) For Interior Framing, Exterior Framing and Clips/Accessories



- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



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- **LEED v4.1 MR Credit:** Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)
- **LEED v4 MR Credit:** Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).