

**1350T125-54 (50ksi, CP60)**
**1350 (13-1/2") structural track with T125 (1-1/4") leg - 54mils (16ga)**
**Coating:** CP60 per AISI S240

**Color Code:** Green

**Geometric Properties**

**Web depth:** 13.698 in      **Thickness:** 54mils (16ga)      **Yield strength, Fy:** 50 ksi  
**Leg width:** 1.25 in      **Design Thickness:** 0.0566 in      **\*Fy with Cold-Work, Fya:** 50.0 ksi  
**Min. steel thickness:** 0.0538 in      **Ultimate, Fu:** 65.0 ksi

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

|                                  |                        |
|----------------------------------|------------------------|
| Cross sectional area (A)         | 0.905 in <sup>2</sup>  |
| Member weight per foot of length | 3.08 lb/ft             |
| Moment of inertia (Ix)           | 18.159 in <sup>4</sup> |
| Section Modulus (Sx)             | 2.651 in <sup>3</sup>  |
| Radius of gyration (Rx)          | 4.480 in               |
| Gross moment of inertia (Iy)     | 0.061 in <sup>4</sup>  |
| Gross radius of gyration (Ry)    | 0.259 in               |

**Effective Section Properties, Strong Axis**

|                                       |                        |
|---------------------------------------|------------------------|
| Effective Area (Ae)                   | 0.242 in <sup>2</sup>  |
| Moment of inertia for deflection (Ix) | 15.082 in <sup>4</sup> |
| Section modulus (Sx)                  | 1.459 in <sup>3</sup>  |
| Allowable bending moment (Ma)         | 43.70 in-k             |
| Allowable shear force in web          | 1203 lb                |

**Torsional Properties**

|  |                       |
|--|-----------------------|
| St. Venant torsional constant (J x 1000)             | 0.966 in <sup>4</sup> |
| Warping constant (Cw)                                | 2.362 in <sup>6</sup> |
| Distance from shear center to neutral axis (Xo)      | -0.307 in             |
| Distance between shear center and web centerline (m) | 0.214 in              |
| Radii of gyration (Ro)                               | 4.498 in              |
| Torsional flexural constant (Beta)                   | 0.995                 |

- Effective properties incorporate the strength increase from the cold work of forming.
- **Web-height to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.**

**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).