

05.40.00 (Cold-Formed Metal Framing)





Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140

1150T350-97 (50ksi, CP60)

1150 (11-1/2") structural track with T350 (3-1/2") leg - 97mils (12ga)

Coating: CP60 per AISI S240 Color Code: Red

Min. steel thickness: 0.0966 in

Geometric Properties

Radii of gyration (Ro)

Torsional flexural constant (Beta)

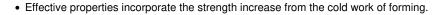
Web depth: 11.856 in Thickness: 97mils (12ga) Leg width: 3.50 in Design Thickness: 0.1017 in Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 50.0 ksi

Ultimate, Fu: 65.0 ksi

4.899 in

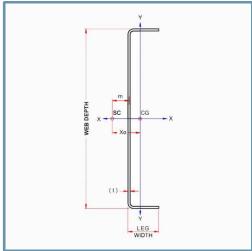
0.873

| Gross Section Properties of Full Section, Strong Axis | |
|---|------------------------|
| Cross sectional area (A) | 1.879 in ² |
| Member weight per foot of length | 6.39 lb/ft |
| Moment of inertia (lx) | 37.385 in ⁴ |
| Section Modulus (Sx) | 6.307in ³ |
| Radius of gyration (Rx) | 4.460 in |
| Gross moment of inerita (ly) | 2.002 in ⁴ |
| Gross radius of gyration (Ry) | 1.032 in |
| Effective Section Properties, S | Strong Axis |
| Effective Area (Ae) | 0.780 in ² |
| Moment of inertia for deflection (lx) | 31.781 in ⁴ |
| Section modulus (Sx) | 4.566 in ³ |
| Allowable bending moment (Ma) | 136.71 in-k |
| Allowable shear force in web | 8250 lb |
| Torsional Properties | s |
| St. Venant torsional constant (J x 1000) | 6.479 in ⁴ |
| Warping constant (Cw) | 50.129 in ⁶ |
| Distance from shear center to neutral axis (Xo) | -1.744 in |
| Distance between shear center and web centerline (m) | 1.100 in |
| | |



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
 - o (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)
 - o Section A5 Products Thickness, shapes, tolerances, identification
 - o Section C Installation (Referencing ASTM C1007)
- AISI S202-20 Code of Standard Practice for Cold-Formed Steel Structural Framing
 - o 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



Sustainability Credits For more details and LEED letters contact Technical Services at 888-437-3244 or visit clarkdietrich.com/LEED.

- 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).