

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

05.40.00 (Cold-Formed Metal Framing)

1400T250-97 (50ksi, CP60)

1400 (14") structural track with T250 (2-1/2") leg - 97mils (12ga)

Coating: CP60 per AISI S240

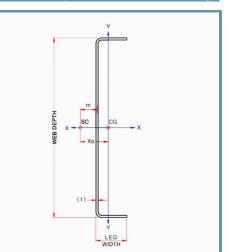
Geometric Properties

Web depth: 14.356 in
Leg width: 2.50 inThickness: 97mils (12ga)
Design Thickness: 0.1017 in
Min. steel thickness: 0.0966 in

Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 50.0 ksi Ultimate, Fu: 65.0 ksi

Color Code: Red

| Gross Section Properties of Full Section, Strong Axis | |
|---|------------------------|
| Cross sectional area (A) | 1.930 in ² |
| Member weight per foot of length | 6.57 lb/ft |
| Moment of inertia (Ix) | 48.957 in ⁴ |
| Section Modulus (Sx) | 6.821in ³ |
| Radius of gyration (Rx) | 5.036 in |
| Gross moment of inerita (ly) | 0.803 in ⁴ |
| Gross radius of gyration (Ry) | 0.645 in |
| Effective Section Properties, Strong Axis | |
| Effective Area (Ae) | 0.773 in ² |
| Moment of inertia for deflection (lx) | 44.895 in ⁴ |
| Section modulus (Sx) | 4.708 in ³ |
| Allowable bending moment (Ma) | 140.96 in-k |
| Allowable shear force in web | 6761 lb |
| Torsional Properties | |
| St. Venant torsional constant (J x 1000) | 6.654 in ⁴ |
| Warping constant (Cw) | 31.333 in ⁶ |
| Distance from shear center to neutral axis (Xo) | -0.938 in |
| Distance between shear center and web centerline (m) | 0.622 in |
| Radii of gyration (Ro) | 5.163 in |
| Torsional flexural constant (Beta) | 0.967 |



Load-bearing walls

Curtain walls

Tall interior walls

Floor & ceiling joists

Trusses



• 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

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).