

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

05.40.00 (Cold-Formed Metal Framing)

250T250-43 (33ksi, CP60)

250 (2-1/2") structural track with T250 (2-1/2") leg - 43mils (18ga)

 Coating: CP60 per AISI S240
 Color Code: Yellow

 Geometric Properties
 Yield strength, Fy: 33 ksi

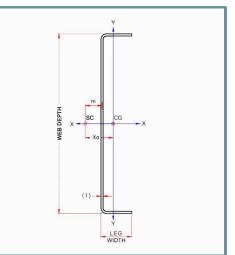
 Web depth: 2.661 in
 Thickness: 43mils (18ga)

Leg width: 2.50 in Design Thickness: 0.0451 in *Fy with Cold-Work, Fya: 33.0 ksi Min. steel thickness: 0.0428 in Ultimate, Fu: 45.0 ksi **Gross Section Properties of Full Section, Strong Axis** Cross sectional area (A) 0.338 in² Member weight per foot of length 1.15 lb/ft 0.443 in⁴ Moment of inertia (Ix) 0.333in³ Section Modulus (Sx) Radius of gyration (Rx) 1.146 in Gross moment of inerita (ly) 0.230 in⁴ Gross radius of gyration (Ry) 0.826 in **Effective Section Properties, Strong Axis** 0.172 in² Effective Area (Ae) Moment of inertia for deflection (lx) 0.318 in⁴ Section modulus (Sx) 0.169 in³ Allowable bending moment (Ma) 3.34 in-k Allowable shear force in web 1356 lb **Torsional Properties** 0.229 in⁴ St. Venant torsional constant (J x 1000) 0.283 in⁶ Warping constant (Cw) Distance from shear center to neutral axis (Xo) -1.873 in Distance between shear center and web centerline (m) 1.053 in Radii of gyration (Ro) 2.346 in Torsional flexural constant (Beta) 0.362

• 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)
- $\circ~$ Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
- $\circ~$ 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



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).