

05.40.00 (Cold-Formed Metal Framing)





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

250T200-54 (50ksi, CP60)

250 (2-1/2") structural track with T200 (2") leg - 54mils (16ga)

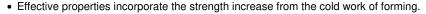
Coating: CP60 per AISI S240 Color Code: Green

Geometric Properties

Web depth: 2.698 in Thickness: 54mils (16ga) Leg width: 2.00 in Design Thickness: 0.0566 in Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 50.0 ksi

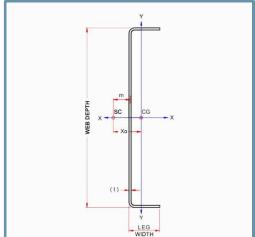
Min. steel thickness: 0.0538 in Ultimate, Fu: 65.0 ksi

Gross Section Properties of Full Section, Strong Axis	
Cross sectional area (A)	0.367 in ²
Member weight per foot of length	1.25 lb/ft
Moment of inertia (lx)	0.466 in ⁴
Section Modulus (Sx)	0.346in ³
Radius of gyration (Rx)	1.127 in
Gross moment of inerita (ly)	0.157 in ⁴
Gross radius of gyration (Ry)	0.654 in
Effective Section Properties, 9	Strong Axis
Effective Area (Ae)	0.220 in ²
Moment of inertia for deflection (lx)	0.372 in ⁴
Section modulus (Sx)	0.209 in ³
Allowable bending moment (Ma)	6.25 in-k
Allowable shear force in web	2563 lb
Torsional Propertie	s
St. Venant torsional constant (J x 1000)	0.392 in ⁴
Warping constant (Cw)	0.195 in ⁶
Distance from shear center to neutral axis (Xo)	-1.405 in
Distance between shear center and web centerline (m)	0.806 in
Radii of gyration (Ro)	1.917 in
Torsional flexural constant (Beta)	0.462



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
- IBC 2021 International Building Code
- ICC-ES ESR-1166P Structural Studs and Track
 - ESR-1166P LABC and LARC Supplement
 - o ESR-1166P Catalog ClarkDietrich Structural Technical Design Guide (6/22/20)
- Intertek CCRR-0206 Structural Studs and Track
- SFIA Stud Code Compliance Certification Program
- 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).