

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

05.40.00 (Cold-Formed Metal Framing)

250T250-68 (50ksi, CP60)

Effective Area (Ae)

Section modulus (Sx)

Warping constant (Cw)

Radii of gyration (Ro)

Moment of inertia for deflection (lx)

Allowable bending moment (Ma) Allowable shear force in web

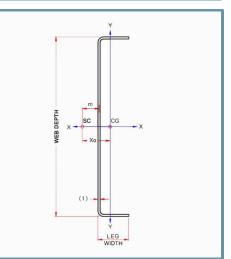
Torsional flexural constant (Beta)

St. Venant torsional constant (J x 1000)

Distance from shear center to neutral axis (Xo)

Distance between shear center and web centerline (m)

250 (2-1/2") structural track with T250 (2-1/2") leg - 68mils (14ga)		
Coating: CP60 per AISI S240		Color Code: Orange
Geometric Proper	ties	
Web depth: 2.750 in Leg width: 2.50 in	Thickness: 68mils (14ga) Design Thickness: 0.0713 in Min. steel thickness: 0.0677 in	Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 50.0 ksi Ultimate, Fu: 65.0 ksi
Gross Section Properties of Full Section, Strong Axis		
Cross sectional area (A)		0.534 in ²
Member weight per foot of length		1.82 lb/ft
Moment of inertia (Ix)		0.728 in ⁴
Section Modulus (Sx)		0.530in ³
Radius of gyration (Rx)		1.168 in
Gross moment of inerita (ly)		0.360 in ⁴
Gross radius of gyration (Ry)		0.821 in
Effective Section Properties, Strong Axis		



• 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)

Torsional Properties

0.334 in²

0.576 in⁴

0.310 in³ 9.27 in-k

3199 lb

0.904 in⁴

0.466 in⁶

-1.855 in

1.043 in

2.341 in

0.372

- Section A3 Material Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
- 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

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).