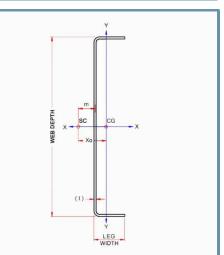


Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140

## 05.40.00 (Cold-Formed Metal Framing)

<b>550T250-68 (50k</b> 550 (5-1/2'') structura	t <mark>si, CP60)</mark> I track with T250 (2-1/2'') leg - 68	3mils (14ga)
Coating: CP60 per AISI S240		Color Code: Orange
Geometric Proper	ties	
Web depth: 5.750 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)		0.748 in <sup>2</sup>
Member weight per foot of length		2.54 lb/ft
Moment of inertia (Ix)		3.850 in <sup>4</sup>
Section Modulus (Sx)		1.339in <sup>3</sup>
Radius of gyration (Rx)		2.269 in
Gross moment of inerita (ly)		0.460 in <sup>4</sup>
Gross radius of gyration (Ry)		0.785 in
Effective Section Properties, Strong Axis		
Effective Area (Ae)		0.373 in <sup>2</sup>
Moment of inertia for deflection (Ix)		3.173 in <sup>4</sup>
Section modulus (Sx)		0.897 in <sup>3</sup>
Allowable bending moment (Ma)		26.86 in-k
Allowable shear force in web		5350 lb
Torsional Properties		
St. Venant torsional constant (J x 1000)		1.267 in <sup>4</sup>
Warping constant (Cw)		2.627 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)		-1.470 in
Distance between shear center and web centerline (m)		0.890 in
Radii of gyration (Ro)		2.815 in
Torsional flexural constant (Beta)		0.727



• 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).