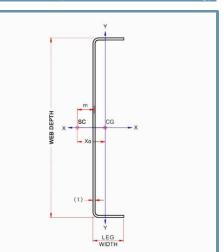


Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140

## 05.40.00 (Cold-Formed Metal Framing)

## 

800T200-68 (50ksi, CP60) 800 (8") structural track with T200 (2") leg - 68mils (14ga)		
Coating: CP60 per AISI S240		Color Code: Orange
Geometric Prope	rties	
Web depth: 8.250 in Leg width: 2.00 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 Se	ection, Strong Axis
Cross sectional area (A)		0.854 in <sup>2</sup>
Member weight per foot of length		2.91 lb/ft
Moment of inertia (lx)		7.789 in <sup>4</sup>
Section Modulus (Sx)		1.888in <sup>3</sup>
Radius of gyration (Rx)		3.019 in
Gross moment of inerita (ly)		0.272 in <sup>4</sup>
Gross radius of gyration (Ry)		0.564 in
	Effective Section Properties,	Strong Axis
Effective Area (Ae)		0.379 in <sup>2</sup>
Moment of inertia for deflection (lx)		7.053 in <sup>4</sup>
Section modulus (Sx)		1.310 in <sup>3</sup>
Allowable bending moment (Ma)		39.22 in-k
Allowable shear force in web		4087 lb
	Torsional Properti	es
St. Venant torsional constant (J x 1000)		1.448 in <sup>4</sup>
Warping constant (Cw)		3.357 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)		-0.902 in
Distance between shear center and web centerline (m)		0.580 in
Radii of gyration (Ro)		3.201 in
Torsional flexural constant (Beta)		0.921
Effective properties in	acorporate the strength increase from	the cold work of forming



· 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 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
- 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

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).