

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

05.40.00 (Cold-Formed Metal Framing)

800T350-68 (50ksi, CP60)

Allowable shear force in web

Warping constant (Cw)

Radii of gyration (Ro)

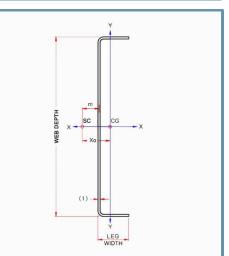
Torsional flexural constant (Beta)

St. Venant torsional constant (J x 1000)

Distance from shear center to neutral axis (Xo)

Distance between shear center and web centerline (m)

800 (8") structural tra	(SI, CP60) ack with T350 (3-1/2'') leg - 68mi	ils (14ga)
Coating: CP60 per AISI S240		Color Code: Orange
Geometric Proper	ties	
Web depth: 8.250 in Leg width: 3.50 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)		1.068 in ²
Member weight per foot of length		3.64 lb/ft
Moment of inertia (Ix)		11.365 in ⁴
Section Modulus (Sx)		2.755in ³
Radius of gyration (Rx)		3.262 in
Gross moment of inerita (ly)		1.290 in ⁴
Gross radius of gyration (Ry)		1.099 in
	Effective Section Properties	, Strong Axis
Effective Area (Ae)		0.388 in ²
Moment of inertia for deflection (lx)		8.691 in ⁴
Section modulus (Sx)		1.533 in ³
Allowable bending moment (Ma)		45.89 in-k



• 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

4087 lb

1.810 in⁴ 15.260 in⁶

-2.044 in

1.243 in

4.003 in

0.739

- 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).