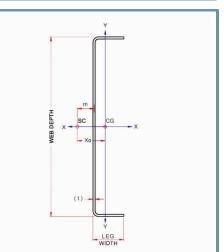


Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140

05.40.00 (Cold-Formed Metal Framing)

1600T300-68 (50) 1600 (16") structural tr	<mark>ksi, CP60)</mark> rack with T300 (3'') leg - 68mils	s (14ga)
Coating: CP60 per AISI S240		Color Code: Orange
Geometric Propert	ies	
Web depth: 16.250 in Leg width: 3.00 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 Section, Strong Axis		
Cross sectional area (A)		1.567 in ²
Member weight per foot of length		5.33 lb/ft
Moment of inertia (Ix)		52.264 in ⁴
Section Modulus (Sx)		6.433in ³
Radius of gyration (Rx)		5.774 in
Gross moment of inerita (ly)		0.987 in ⁴
Gross radius of gyration (Ry)		0.794 in
	Effective Section Properties,	Strong Axis
Effective Area (Ae)		0.397 in ²
Moment of inertia for deflection (lx)		38.853 in ⁴
Section modulus (Sx)		2.906 in ³
Allowable bending moment (Ma)		87.01 in-k
Allowable shear force in web		2030 lb
	Torsional Properti	es
St. Venant torsional constant (J x 1000)		2.656 in ⁴
Warping constant (Cw)		49.199 in ⁶
Distance from shear center to neutral axis (Xo)		-1.176 in
Distance between shear center and web centerline (m)		0.776 in
Radii of gyration (Ro)		5.946 in
Torsional flexural constant (Beta)		0.961



· Load-bearing walls

· Curtain walls

• Tall interior walls

· Floor & ceiling joists

Trusses



Effective properties incorporate the strength increase from the cold work of forming.

Web-height to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.

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).