

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

05.40.00 (Cold-Formed Metal Framing)

1600T350-97 (50ksi, CP60)

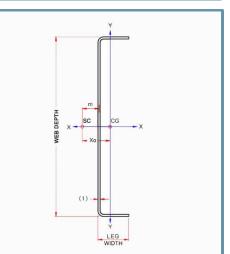
1600 (16") structural track with T350 (3-1/2") leg - 97mils (12ga)

Coating: CP60 per AISI S240

Color Code: Red

Geometric Properties

Geometric Propert	ties	
Web depth: 16.356 in Leg width: 3.50 in	Thickness: 97mils (12ga) Design Thickness: 0.1017 in Min. steel thickness: 0.0966 in	Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 50.0 ksi Ultimate, Fu: 65.0 ksi
(Gross Section Properties of Full Sec	ction, Strong Axis
Cross sectional area (A)		2.337 in ²
Member weight per foot of length		7.95 lb/ft
Moment of inertia (Ix)		81.577 in ⁴
Section Modulus (Sx)		9.975in ³
Radius of gyration (Rx)		5.908 in
Gross moment of inerita (ly)		2.155 in ⁴
Gross radius of gyration (Ry)		0.960 in
	Effective Section Properties,	Strong Axis
Effective Area (Ae)		0.792 in ²
Moment of inertia for deflection (lx)		67.972 in ⁴
Section modulus (Sx)		5.670 in ³
Allowable bending moment (Ma)		169.75 in-k
Allowable shear force in web		5908 lb
	Torsional Propertie	S
St. Venant torsional constant (J x 1000)		8.057 in ⁴
Warping constant (Cw)		106.565 in ⁶
Distance from shear center to neutral axis (Xo)		-1.484 in
Distance between shear center and web centerline (m)		0.966 in
Radii of gyration (Ro)		6.167 in
Torsional flexural constant (Beta)		0.942
Effective properties inc	corporate the strength increase from th	e 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
 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).