

05.40.00 (Cold-Formed Metal Framing)





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

## 1600T350-97 (50ksi, CP60)

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

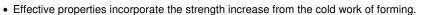
Coating: CP60 per AISI S240 Color Code: Red

## **Geometric Properties**

Web depth: 16.356 in Thickness: 97mils (12ga) Leg width: 3.50 in Design Thickness: 0.1017 in Min. steel thickness: 0.0966 in Yield strength, Fy: 50 ksi \*Fy with Cold-Work, Fya: 50.0 ksi

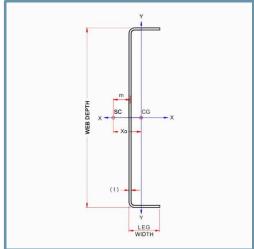
Ultimate, Fu: 65.0 ksi

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Gross Section Properties of Full Sec	
Cross sectional area (A)	2.337 in <sup>2</sup>
Member weight per foot of length	7.95 lb/ft
Moment of inertia (lx)	81.577 in <sup>4</sup>
Section Modulus (Sx)	9.975in <sup>3</sup>
Radius of gyration (Rx)	5.908 in
Gross moment of inerita (ly)	2.155 in <sup>4</sup>
Gross radius of gyration (Ry)	0.960 in
Effective Section Properties, Strong Axis	
Effective Area (Ae)	0.792 in <sup>2</sup>
Moment of inertia for deflection (lx)	67.972 in <sup>4</sup>
Section modulus (Sx)	5.670 in <sup>3</sup>
Allowable bending moment (Ma)	169.75 in-k
Allowable shear force in web	5908 lb
Torsional Properties	
St. Venant torsional constant (J x 1000)	8.057 in <sup>4</sup>
Warping constant (Cw)	106.565 in <sup>6</sup>
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



## **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
  - o (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)
  - o Section A5 Products Thickness, shapes, tolerances, identification
  - o 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
- SDS For ASTM A1003 Steel Framing Products For Interior Framing, Exterior Framing and Clips/Accessories



- · Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



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).