

**1600T300-97 (50ksi, CP60)**
**1600 (16") structural track with T300 (3") leg - 97mils (12ga)**
**Coating:** CP60 per AISI S240

**Color Code:** Red

**Geometric Properties**
**Web depth:** 16.356 in

**Thickness:** 97mils (12ga)

**Yield strength, Fy:** 50 ksi

**Leg width:** 3.00 in

**Design Thickness:** 0.1017 in

**\*Fy with Cold-Work, Fya:** 50.0 ksi

**Min. steel thickness:** 0.0966 in

**Ultimate, Fu:** 65.0 ksi

**Gross Section Properties of Full Section, Strong Axis**

Cross sectional area (A)	2.235 in <sup>2</sup>
Member weight per foot of length	7.61 lb/ft
Moment of inertia (Ix)	74.860 in <sup>4</sup>
Section Modulus (Sx)	9.154 in <sup>3</sup>
Radius of gyration (Rx)	5.787 in
Gross moment of inertia (Iy)	1.388 in <sup>4</sup>
Gross radius of gyration (Ry)	0.788 in

**Effective Section Properties, Strong Axis**

Effective Area (Ae)	0.786 in <sup>2</sup>
Moment of inertia for deflection (Ix)	64.831 in <sup>4</sup>
Section modulus (Sx)	5.580 in <sup>3</sup>
Allowable bending moment (Ma)	167.06 in-k
Allowable shear force in web	5908 lb

**Torsional Properties**

St. Venant torsional constant (J x 1000)	7.706 in <sup>4</sup>
Warping constant (Cw)	69.963 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.165 in
Distance between shear center and web centerline (m)	0.769 in
Radii of gyration (Ro)	5.956 in
Torsional flexural constant (Beta)	0.962

- 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



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



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- **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).