

**1600T300-68 (50ksi, CP60)**
**1600 (16") structural track with T300 (3") leg - 68mils (14ga)**
**Coating:** CP60 per AISI S240

**Color Code:** Orange

**Geometric Properties**
**Web depth:** 16.250 in

**Thickness:** 68mils (14ga)

**Yield strength, Fy:** 50 ksi

**Leg width:** 3.00 in

**Design Thickness:** 0.0713 in

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

**Min. steel thickness:** 0.0677 in

**Ultimate, Fu:** 65.0 ksi

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

Cross sectional area (A)	1.567 in <sup>2</sup>
Member weight per foot of length	5.33 lb/ft
Moment of inertia (Ix)	52.264 in <sup>4</sup>
Section Modulus (Sx)	6.433in <sup>3</sup>
Radius of gyration (Rx)	5.774 in
Gross moment of inertia (Iy)	0.987 in <sup>4</sup>
Gross radius of gyration (Ry)	0.794 in

**Effective Section Properties, Strong Axis**

Effective Area (Ae)	0.397 in <sup>2</sup>
Moment of inertia for deflection (Ix)	38.853 in <sup>4</sup>
Section modulus (Sx)	2.906 in <sup>3</sup>
Allowable bending moment (Ma)	87.01 in-k
Allowable shear force in web	2030 lb

**Torsional Properties**

St. Venant torsional constant (J x 1000)	2.656 in <sup>4</sup>
Warping constant (Cw)	49.199 in <sup>6</sup>
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

- 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



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



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- **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).