

**800T250-33 (33ksi, CP60)**
**800 (8") structural track with T250 (2-1/2") leg - 33mils (20ga)**
**Coating:** CP60 per AISI S240

**Color Code:** White

**Geometric Properties**
**Web depth:** 8.146 in

**Thickness:** 33mils (20ga)

**Yield strength, Fy:** 33 ksi

**Leg width:** 2.50 in

**Design Thickness:** 0.0346 in

**\*Fy with Cold-Work, Fya:** 33.0 ksi

**Min. steel thickness:** 0.0329 in

**Ultimate, Fu:** 45.0 ksi

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

Cross sectional area (A)	0.450 in <sup>2</sup>
Member weight per foot of length	1.53 lb/ft
Moment of inertia (Ix)	4.319 in <sup>4</sup>
Section Modulus (Sx)	1.061 in <sup>3</sup>
Radius of gyration (Rx)	3.099 in
Gross moment of inertia (Iy)	0.252 in <sup>4</sup>
Gross radius of gyration (Ry)	0.748 in

**Effective Section Properties, Strong Axis**

Effective Area (Ae)	0.117 in <sup>2</sup>
Moment of inertia for deflection (Ix)	3.383 in <sup>4</sup>
Section modulus (Sx)	0.442 in <sup>3</sup>
Allowable bending moment (Ma)	8.74 in-k
Allowable shear force in web	465 lb

**Torsional Properties**

St. Venant torsional constant (J x 1000)	0.179 in <sup>4</sup>
Warping constant (Cw)	2.986 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.278 in
Distance between shear center and web centerline (m)	0.804 in
Radii of gyration (Ro)	3.435 in
Torsional flexural constant (Beta)	0.862

- 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.**
- **This section does not meet the requirements of AISI North American Specifications. Increase the thickness or contact ClarkDietrich Tech Support for design solutions.**

**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



**Sustainability Credits** For more details and LEED letters contact Technical Services at 888-437-3244 or visit [clarkdietrich.com/LEED](http://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).