

## 350T250-43 (33ksi, CP60)

**350 (3-1/2") structural track with T250 (2-1/2") leg - 43mils (18ga)**

**Coating:** CP60 per AISI S240

**Color Code:** Yellow

### Geometric Properties

**Web depth:** 3.661 in    **Thickness:** 43mils (18ga)    **Yield strength,  $F_y$ :** 33 ksi  
**Leg width:** 2.50 in    **Design Thickness:** 0.0451 in    **\* $F_y$  with Cold-Work,  $F_{ya}$ :** 33.0 ksi  
**Min. steel thickness:** 0.0428 in    **Ultimate,  $F_u$ :** 45.0 ksi

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

Cross sectional area (A)	0.383 in <sup>2</sup>
Member weight per foot of length	1.30 lb/ft
Moment of inertia (Ix)	0.896 in <sup>4</sup>
Section Modulus (Sx)	0.490 in <sup>3</sup>
Radius of gyration (Rx)	1.530 in
Gross moment of inertia (Iy)	0.257 in <sup>4</sup>
Gross radius of gyration (Ry)	0.819 in

#### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.180 in <sup>2</sup>
Moment of inertia for deflection (Ix)	0.659 in <sup>4</sup>
Section modulus (Sx)	0.268 in <sup>3</sup>
Allowable bending moment (Ma)	5.29 in-k
Allowable shear force in web	1739 lb

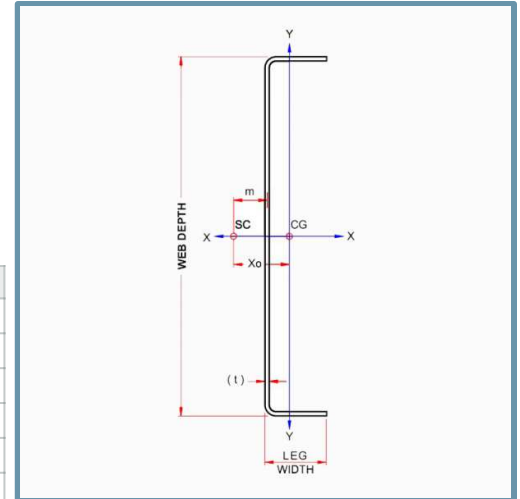
#### Torsional Properties

St. Venant torsional constant (J x 1000)	0.260 in <sup>4</sup>
Warping constant (Cw)	0.593 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.719 in
Distance between shear center and web centerline (m)	0.996 in
Radii of gyration (Ro)	2.443 in
Torsional flexural constant (Beta)	0.505

- 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).