

## 1200T350-68 (50ksi, CP60)

1200 (12") structural track with T350 (3-1/2") leg - 68mils (14ga)

Coating: CP60 per AISI S240

Color Code: Orange

### Geometric Properties

**Web depth:** 12.250 in    **Thickness:** 68mils (14ga)    **Yield strength, Fy:** 50 ksi  
**Leg width:** 3.50 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)	1.354 in <sup>2</sup>
Member weight per foot of length	4.61 lb/ft
Moment of inertia (Ix)	28.730 in <sup>4</sup>
Section Modulus (Sx)	4.691 in <sup>3</sup>
Radius of gyration (Rx)	4.607 in
Gross moment of inertia (Iy)	1.435 in <sup>4</sup>
Gross radius of gyration (Ry)	1.030 in

#### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.395 in <sup>2</sup>
Moment of inertia for deflection (Ix)	23.491 in <sup>4</sup>
Section modulus (Sx)	2.268 in <sup>3</sup>
Allowable bending moment (Ma)	67.89 in-k
Allowable shear force in web	2713 lb

#### Torsional Properties

St. Venant torsional constant (J x 1000)	2.294 in <sup>4</sup>
Warping constant (Cw)	38.623 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.725 in
Distance between shear center and web centerline (m)	1.092 in
Radii of gyration (Ro)	5.026 in
Torsional flexural constant (Beta)	0.882

- 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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