

## 550T350-54 (50ksi, CP60)

550 (5-1/2") structural track with T350 (3-1/2") leg - 54mils (16ga)

Coating: CP60 per AISI S240

Color Code: Green

### Geometric Properties

Web depth: 5.698 in

Thickness: 54mils (16ga)

Yield strength,  $F_y$ : 50 ksi

Leg width: 3.50 in

Design Thickness: 0.0566 in

\* $F_y$  with Cold-Work,  $F_{ya}$ : 50.0 ksi

Min. steel thickness: 0.0538 in

Ultimate,  $F_u$ : 65.0 ksi

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

Cross sectional area (A)	0.707 in <sup>2</sup>
Member weight per foot of length	2.41 lb/ft
Moment of inertia (Ix)	3.930 in <sup>4</sup>
Section Modulus (Sx)	1.379 in <sup>3</sup>
Radius of gyration (Rx)	2.358 in
Gross moment of inertia (Iy)	0.920 in <sup>4</sup>
Gross radius of gyration (Ry)	1.141 in

#### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.244 in <sup>2</sup>
Moment of inertia for deflection (Ix)	2.696 in <sup>4</sup>
Section modulus (Sx)	0.654 in <sup>3</sup>
Allowable bending moment (Ma)	19.59 in-k
Allowable shear force in web	2980 lb

#### Torsional Properties

St. Venant torsional constant (J x 1000)	0.755 in <sup>4</sup>
Warping constant (Cw)	5.149 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-2.331 in
Distance between shear center and web centerline (m)	1.366 in
Radii of gyration (Ro)	3.507 in
Torsional flexural constant (Beta)	0.558

- 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).