1200T350-54 (50ksi, CP60)

1200 (12") structural track with T350 (3-1/2") leg - 54mils (16ga)

Coating: CP60 per AISI S240

Color Code: Green

Geometric Properties

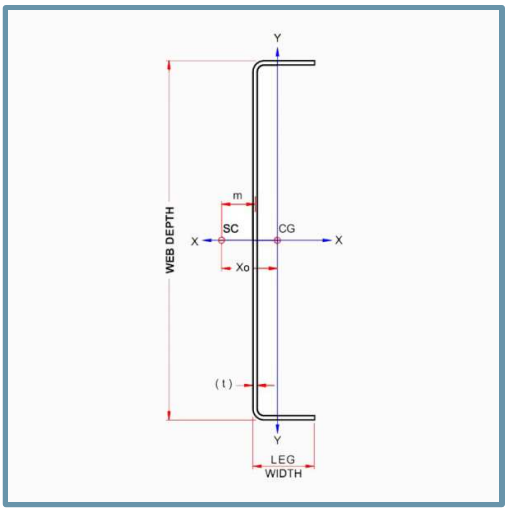
Web depth: 12.198 in
Leg width: 3.50 in

Thickness: 54mils (16ga)
Design Thickness: 0.0566 in
Min. steel thickness: 0.0538 in

Yield strength, Fy: 50 ksi
***Fy with Cold-Work, Fya:** 50.0 ksi
Ultimate, Fu: 65.0 ksi

Gross Section Properties of Full Section, Strong Axis	
Cross sectional area (A)	1.075 in^2
Member weight per foot of length	3.66 lb/ft
Moment of inertia (Ix)	22.728 in^4
Section Modulus (Sx)	3.726in^3
Radius of gyration (Rx)	4.599 in
Gross moment of inerita (Iy)	1.146 in^4
Gross radius of gyration (Ry)	1.032 in
Effective Section Properties, Strong Axis	
Effective Area (Ae)	0.253 in^2
Moment of inertia for deflection (Ix)	16.549 in^4
Section modulus (Sx)	1.433 in^3
Allowable bending moment (Ma)	42.91 in-k
Allowable shear force in web	1354 lb
Torsional Properties	
St. Venant torsional constant (J x 1000)	1.148 in^4
Warping constant (Cw)	30.618 in^6
Distance from shear center to neutral axis (Xo)	-1.731 in
Distance between shear center and web centerline (m)	1.097 in
Radii of gyration (Ro)	5.021 in
Torsional flexural constant (Beta)	0.881

- 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.



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

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

Sustainability Credits For more details and LEED letters contact Technical Services at 888-437-3244 or visit 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).