

1400T300-54 (50ksi, CP60)
1400 (14") structural track with T300 (3") leg - 54mils (16ga)
Coating: CP60 per AISI S240

Color Code: Green

Geometric Properties

Web depth: 14.198 in **Thickness:** 54mils (16ga) **Yield strength, Fy:** 50 ksi
Leg width: 3.00 in **Design Thickness:** 0.0566 in ***Fy with Cold-Work, Fya:** 50.0 ksi
Min. steel thickness: 0.0538 in **Ultimate, Fu:** 65.0 ksi

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	1.131 in ²
Member weight per foot of length	3.85 lb/ft
Moment of inertia (Ix)	29.891 in ⁴
Section Modulus (Sx)	4.211 in ³
Radius of gyration (Rx)	5.140 in
Gross moment of inertia (Iy)	0.769 in ⁴
Gross radius of gyration (Ry)	0.825 in

Effective Section Properties, Strong Axis

Effective Area (Ae)	0.253 in ²
Moment of inertia for deflection (Ix)	20.332 in ⁴
Section modulus (Sx)	1.636 in ³
Allowable bending moment (Ma)	48.97 in-k
Allowable shear force in web	1160 lb

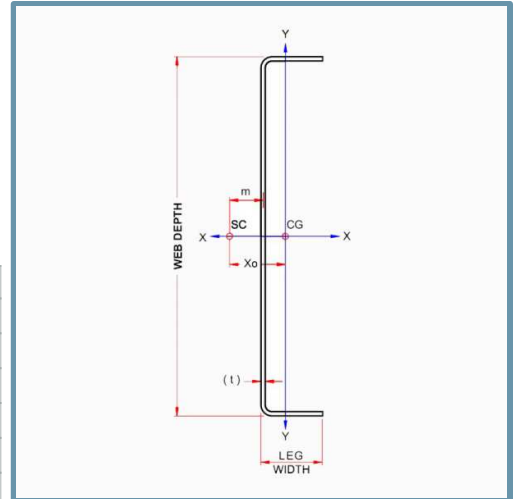
Torsional Properties

St. Venant torsional constant (J x 1000)	1.208 in ⁴
Warping constant (Cw)	28.800 in ⁶
Distance from shear center to neutral axis (Xo)	-1.271 in
Distance between shear center and web centerline (m)	0.829 in
Radii of gyration (Ro)	5.359 in
Torsional flexural constant (Beta)	0.944

- 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.**

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
- [IBC 2021](#) International Building Code
- [ICC-ES ESR-1166P](#) Structural Studs and Track
 - [ESR-1166P LABC and LARC](#) Supplement
 - [ESR-1166P Catalog](#) ClarkDietrich Structural Technical Design Guide (6/22/20)
- [Intertek CRR-0206](#) Structural Studs and Track
- [SFIA Stud](#) Code Compliance Certification Program
- [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.

- **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).