

05.40.00 (Cold-Formed Metal Framing)

Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140



1000T300-43 (33ksi, CP60)

1000 (10") structural track with T300 (3") leg - 43mils (18ga)

Coating: CP60 per AISI S240 Color Code: Yellow

Geometric Properties

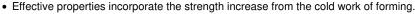
Web depth: 10.161 in Leg width: 3.00 in Design Thickn

Thickness: 43mils (18ga) Yield strength, Fy: 33 ksi

Design Thickness: 0.0451 in *Fy with Cold-Work, Fya: 33.0 ksi

Min. steel thickness: 0.0428 in Ultimate, Fu: 45.0 ksi

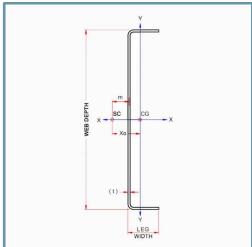
Gross Section Properties of Full Section, Strong Axis	
Cross sectional area (A)	0.721 in ²
Member weight per foot of length	2.45 lb/ft
Moment of inertia (lx)	10.672 in ⁴
Section Modulus (Sx)	2.100in ³
Radius of gyration (Rx)	3.847 in
Gross moment of inerita (ly)	0.572 in ⁴
Gross radius of gyration (Ry)	0.890 in
Effective Section Properties, Strong Axis	
Effective Area (Ae)	0.193 in ²
Moment of inertia for deflection (lx)	8.563 in ⁴
Section modulus (Sx)	0.919 in ³
Allowable bending moment (Ma)	18.16 in-k
Allowable shear force in web	822 lb
Torsional Properties	
St. Venant torsional constant (J x 1000)	0.489 in ⁴
Warping constant (Cw)	10.582 in ⁶
Distance from shear center to neutral axis (Xo)	-1.505 in
Distance between shear center and web centerline (m)	0.950 in
Radii of gyration (Ro)	4.226 in
Torsional flexural constant (Beta)	0.873



- Web-height to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.
- This section does not meet the requirements of AISI North American Specifications. Increase the thickness or contact ClarkDietrich Tech Support for design solutions.

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
 - o (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)
 - o Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
 - o Section A5 Products Thickness, shapes, tolerances, identification
 - o Section C Installation (Referencing ASTM C1007)
- AISI S202-20 Code of Standard Practice for Cold-Formed Steel Structural Framing
 - o Section F3 Delivery, Handling and Storage of Materials
- IBC 2021 International Building Code
- ICC-ES ESR-1166P Structural Studs and Track
 - o ESR-1166P LABC and LARC Supplement
 - ESR-1166P Catalog ClarkDietrich Structural Technical Design Guide (6/22/20)
- Intertek CCRR-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).