

05.40.00 (Cold-Formed Metal Framing)





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

400T150-33 (33ksi, CP60)

400 (4") structural track with T150 (1-1/2") leg - 33mils (20ga)

Coating: CP60 per AISI S240 Color Code: White

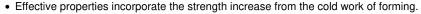
Geometric Properties

Thickness: 33mils (20ga) Web depth: 4.146 in Leg width: 1.50 in Design Thickness: 0.0346 in

Yield strength, Fy: 33 ksi *Fy with Cold-Work, Fya: 33.0 ksi

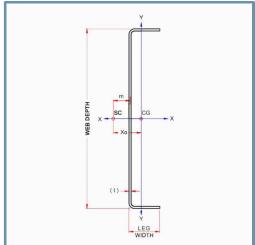
Min. steel thickness: 0.0329 in Ultimate, Fu: 45.0 ksi

Gross Section Properties of Full Sec	ction, Strong Axis
Cross sectional area (A)	0.242 in ²
Member weight per foot of length	0.82 lb/ft
Moment of inertia (lx)	0.622 in ⁴
Section Modulus (Sx)	0.300in ³
Radius of gyration (Rx)	1.603 in
Gross moment of inerita (ly)	0.051 in ⁴
Gross radius of gyration (Ry)	0.460 in
Effective Section Properties,	Strong Axis
Effective Area (Ae)	0.111 in ²
Moment of inertia for deflection (lx)	0.519 in ⁴
Section modulus (Sx)	0.208 in ³
Allowable bending moment (Ma)	4.12 in-k
Allowable shear force in web	940 lb
Torsional Propertie	s
St. Venant torsional constant (J x 1000)	0.097 in ⁴
Warping constant (Cw)	0.155 in ⁶
Distance from shear center to neutral axis (Xo)	-0.821 in
Distance between shear center and web centerline (m)	0.507 in
Radii of gyration (Ro)	1.859 in
Torsional flexural constant (Beta)	0.805

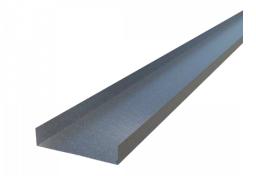


Code Approvals & Performance Standards

- 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)
 - 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
 - ESR-1166P LABC and LARC Supplement
 - o 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).