

05.40.00 (Cold-Formed Metal Framing)





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

## 800T125-43 (33ksi, CP60)

800 (8") structural track with T125 (1-1/4") leg - 43mils (18ga)

Coating: CP60 per AISI S240 Color Code: Yellow

Min. steel thickness: 0.0428 in

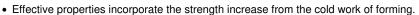
## **Geometric Properties**

Thickness: 43mils (18ga) Web depth: 8.161 in Leg width: 1.25 in Design Thickness: 0.0451 in

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

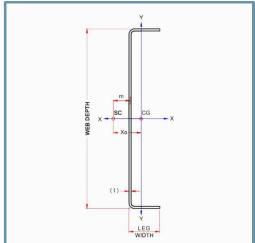
Ultimate, Fu: 45.0 ksi

Gross Section Properties of Full Section, Strong Axis	
Cross sectional area (A)	0.473 in <sup>2</sup>
Member weight per foot of length	1.61 lb/ft
Moment of inertia (lx)	3.774 in <sup>4</sup>
Section Modulus (Sx)	0.925in <sup>3</sup>
Radius of gyration (Rx)	2.824 in
Gross moment of inerita (ly)	0.046 in <sup>4</sup>
Gross radius of gyration (Ry)	0.311 in
Effective Section Properties, 9	Strong Axis
Effective Area (Ae)	0.184 in <sup>2</sup>
Moment of inertia for deflection (lx)	3.484 in <sup>4</sup>
Section modulus (Sx)	0.640 in <sup>3</sup>
Allowable bending moment (Ma)	12.65 in-k
Allowable shear force in web	1030 lb
Torsional Propertie	s
St. Venant torsional constant (J x 1000)	0.321 in <sup>4</sup>
Warping constant (Cw)	0.589 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-0.436 in
Distance between shear center and web centerline (m)	0.292 in
Radii of gyration (Ro)	2.875 in
Torsional flexural constant (Beta)	0.977



## **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).