

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

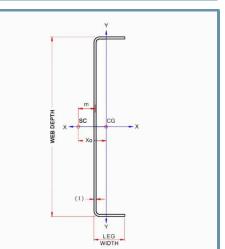
05.40.00 (Cold-Formed Metal Framing)

400T350-43 (33ksi, CP60)

400 (4") structural track with T350 (3-1/2") leg - 43mils (18ga)

Coating: CP60 per AISI S240		Color Code: Yellow
Geometric Prope	rties	
Web depth: 4.161 in	Thickness: 43mils (18ga)	Yield strength, Fy: 33 ksi
Leg width: 3.50 in	Design Thickness: 0.0451 in	*Fy with Cold-Work, Fya: 33.0 ksi
	Min. steel thickness: 0.0428 in	Ultimate, Fu: 45.0 ksi

45.0 ksi Gross Section Properties of Full Section, Strong Axis Cross sectional area (A) 0.496 in² Member weight per foot of length 1.69 lb/ft 1.575 in⁴ Moment of inertia (Ix) 0.757in³ Section Modulus (Sx) Radius of gyration (Rx) 1.783 in Gross moment of inerita (ly) 0.664 in⁴ Gross radius of gyration (Ry) 1.157 in **Effective Section Properties, Strong Axis** Effective Area (Ae) 0.184 in² Moment of inertia for deflection (Ix) 1.015 in⁴ Section modulus (Sx) 0.342 in³ Allowable bending moment (Ma) 6.76 in-k Allowable shear force in web 1739 lb **Torsional Properties** 0.336 in⁴ St. Venant torsional constant (J x 1000) 2.001 in⁶ Warping constant (Cw) Distance from shear center to neutral axis (Xo) -2.553 in Distance between shear center and web centerline (m) 1.452 in Radii of gyration (Ro) 3.322 in Torsional flexural constant (Beta) 0.409



Load-bearing walls

Curtain walls

Tall interior walls

Floor & ceiling joists

Trusses



• Effective properties incorporate the strength increase from the cold work of forming.

• 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
 - (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).