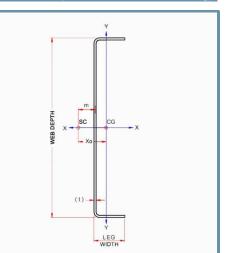


Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140

05.40.00 (Cold-Formed Metal Framing)

400T200-54 (50ksi, CP60) 400 (4") structural track with T200 (2") leg - 54mils (16ga)				
		• ·	Color Code: Green	
Geometric Properties				
Web depth: 4.198 in Leg width: 2.00 in	Thickness: 54mils (16ga) Design Thickness: 0.0566 in Min. steel thickness: 0.0538 in	Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 50.0 ksi Ultimate, Fu: 65.0 ksi		
Gross Section Properties of Full Section, Strong Axis				
Cross sectional area (A)			0.452 in ²	
Member weight per foot of length			1.54 lb/ft	
Moment of inertia (Ix)			1.268 in ⁴	
Section Modulus (Sx)			0.604in ³	
Radius of gyration (Rx)			1.675 in	
Gross moment of inerita (ly)			0.182 in ⁴	
Gross radius of gyration (Ry)		0.635 in		
Effective Section Properties, Strong Axis				
Effective Area (Ae)			0.234 in ²	
Moment of inertia for deflection (Ix)			1.037 in ⁴	
Section modulus (Sx)		0.397 in ³		
Allowable bending moment (Ma)			11.88 in-k	
Allowable shear force in web			3372 lb	
Torsional Properties				
St. Venant torsional constant (J x 1000)			0.483 in ⁴	
Warping constant (Cw)			0.551 in ⁶	
Distance from shear center to neutral axis (Xo)		-1.217 in		
Distance between shear center and web centerline (m)		0.730 in		
Radii of gyration (Ro)			2.166 in	
Torsional flexural constant (Beta)			0.684	
- Effective properties incorrecte the strength increase from the cold work of forming				



· Load-bearing walls

· Curtain walls

• Tall interior walls

· Floor & ceiling joists

Trusses



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

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 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
- 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

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).