

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

05.40.00 (Cold-Formed Metal Framing)

550T200-33 (33ksi, CP60)

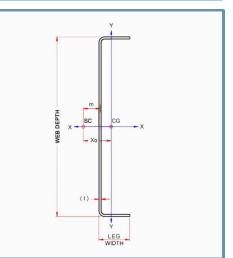
550 (5-1/2") structural track with T200 (2") leg - 33mils (20ga)

Coating: CP60 per AISI S240	Color Code: White
Geometric Properties	

Web depth: 5.646 in Leg width: 2.00 in	Thickness: 33mils (20ga) Design Thickness: 0.0346 in Min. steel thickness: 0.0329 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)			0.329 in ²	
Member weight per foot of length		1.12 lb/ft		
Moment of inertia (Ix)		1.567 in ⁴		
Section Modulus (Sx)		0.555in ³		
Radius of gyration (Rx)			2.184 in	
Gross moment of inerita (ly)			0.123 in ⁴	
Gross radius of gyration	(Ry)		0.613 in	
Effective Section Properties, Strong Axis				
Effective Area (Ae)			0.114 in ²	
Moment of inertia for def	lection (Ix)		1.246 in ⁴	
Section modulus (Sx)			0.307 in ³	
Allowable bending moment (Ma)		6.06 in-k		
Allowable shear force in web			680 lb	
Torsional Properties				
St. Venant torsional constant (J x 1000)			0.131 in ⁴	
Warping constant (Cw)			0.694 in ⁶	
Distance from shear cen	ter to neutral axis (Xo)		-1.088 in	
Distance between shear	center and web centerline (m)		0.674 in	
Radii of gyration (Ro)			2.516 in	
Torsional flexural constant (Beta)			0.813	
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
 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



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).