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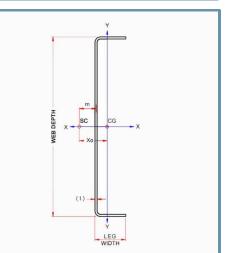
05.40.00 (Cold-Formed Metal Framing)

250T200-33 (33ksi, CP60)

250 (2-1/2") structural track with T200 (2") leg - 33mils (20ga)

Coating: CP60 per AISI S240		Color Code: White
Geometric Proper	rties	
Web depth: 2.646 in	Thickness: 33mils (20ga)	Yield strength, Fy: 33 ksi

Leg width: 2.00 in	Design Thickness: 0.0346 in Min. steel thickness: 0.0329 in	*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)		0.225 in ²		
Member weight per foot of length		0.76 lb/ft		
Moment of inertia (Ix)		0.280 in ⁴		
Section Modulus (Sx)		0.212in ³		
Radius of gyration (Rx)		1.117 in		
Gross moment of inerita (ly)		0.097 in ⁴		
Gross radius of gyration (Ry)		0.658 in		
Effective Section Properties, Strong Axis				
Effective Area (Ae)		0.107 in ²		
Moment of inertia for deflection (Ix)		0.203 in ⁴		
Section modulus (Sx)		0.112 in ³		
Allowable bending moment (Ma)		2.22 in-k		
Allowable shear force in web		1024 lb		
Torsional Properties				
St. Venant torsional constant (J x 1000)		0.090 in ⁴		
Warping constant (Cw)		0.118 in ⁶		
Distance from shear center to neutral axis (Xo)		-1.418 in		
Distance between shear center and web centerline (m)		0.813 in		
Radii of gyration (Ro)		1.922 in		
Torsional flexural constant (Beta)		0.455		



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)
- 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).