

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

05.40.00 (Cold-Formed Metal Framing)

725T125-54 (50ksi, CP60)

725 (7-1/4") structural track with T125 (1-1/4") leg - 54mils (16ga)

Coating: CP60 per AISI S240

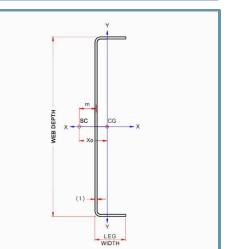
Color Code: Green

Geometric Properties

	Owner Oration Duranting of Full (
	Min. steel thickness: 0.0538 in
Leg width: 1.25 in	Design Thickness: 0.0566 in
Web depth: 7.448 in	Thickness: 54mils (16ga)

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)	0.551 in ²	
Member weight per foot of length	1.88 lb/ft	
Moment of inertia (Ix)	3.719 in ⁴	
Section Modulus (Sx)	0.999in ³	
Radius of gyration (Rx)	2.598 in	
Gross moment of inerita (ly)	0.056 in ⁴	
Gross radius of gyration (Ry)	0.318 in	
Effective Section Properties, Strong Axis		
Effective Area (Ae)	0.237 in ²	
Moment of inertia for deflection (lx)	3.511 in ⁴	
Section modulus (Sx)	0.737 in ³	
Allowable bending moment (Ma)	22.07 in-k	
Allowable shear force in web	2252 lb	
Torsional Properties		
St. Venant torsional constant (J x 1000)	0.589 in ⁴	
Warping constant (Cw)	0.589 in ⁶	
Distance from shear center to neutral axis (Xo)	-0.458 in	
Distance between shear center and web centerline (m)	0.304 in	
Radii of gyration (Ro)	2.657 in	
Torsional flexural constant (Beta)	0.970	



· 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
- 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)
- · 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).