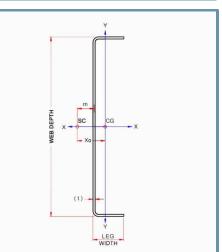


Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140

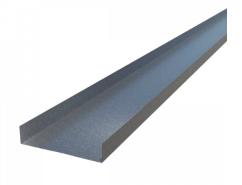
05.40.00 (Cold-Formed Metal Framing)

Coating: CP60 per AISI S240		Color Code: Orange	
Geometric Prope	rties		
Web depth: 5.750 in Leg width: 3.50 in	Thickness: 68mils (14ga) Design Thickness: 0.0713 in Min. steel thickness: 0.0677 in	Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 50.0 ksi Ultimate, Fu: 65.0 ksi	
	Gross Section Properties of Full S	ection, Strong Axis	
Cross sectional area (A	A)	0.890 in ²	
Member weight per foot of length		3.03 lb/ft	
Moment of inertia (Ix)		4.999 in ⁴	
Section Modulus (Sx)		1.739in ³	
Radius of gyration (Rx)		2.370 in	
Gross moment of inerita (ly)		1.153 in ⁴	
Gross radius of gyration (Ry)		1.138 in	
	Effective Section Properties	, Strong Axis	
Effective Area (Ae)		0.378 in ²	
Moment of inertia for deflection (Ix)		3.637 in ⁴	
Section modulus (Sx)		0.954 in ³	
Allowable bending moment (Ma)		28.57 in-k	
Allowable shear force in web		5350 lb	
	Torsional Propert	ies	
St. Venant torsional constant (J x 1000)		1.508 in ⁴	
Warping constant (Cw)		6.546 in ⁶	
Distance from shear center to neutral axis (Xo)		-2.322 in	
Distance between shear center and web centerline (m)		1.361 in	
Radii of gyration (Ro)		3.508 in	
Torsional flexural constant (Beta)		0.562	



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
- 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).