

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

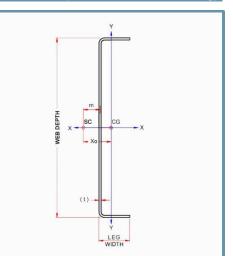
05.40.00 (Cold-Formed Metal Framing)

600T350-43 (33ksi, CP60)

600 (6") structural track with T350 (3-1/2") leg - 43mils (18ga)

Gross Section Properties of Full Section, Strong Axis		
Web depth: 6.161 in Leg width: 3.50 in	Thickness: 43mils (18ga) Design Thickness: 0.0451 in Min. steel thickness: 0.0428 in	Yield strength, Fy: 33 ksi *Fy with Cold-Work, Fya: 33.0 ksi Ultimate, Fu: 45.0 ksi
Geometric Proper	rties	
Coating: CP60 per AIS	SI S240	Color Code: Yellow
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Gross Section Properties of Full Section, Strong Axis			
Cross sectional area (A)	0.586 in ²		
Member weight per foot of length	1.99 lb/ft		
Moment of inertia (lx)	3.760 in ⁴		
Section Modulus (Sx)	1.220in ³		
Radius of gyration (Rx)	2.533 in		
Gross moment of inerita (ly)	0.756 in ⁴		
Gross radius of gyration (Ry)	1.136 in		
Effective Section Properties, Strong Axis			
Effective Area (Ae)	0.190 in ²		
Moment of inertia for deflection (lx)	2.608 in ⁴		
Section modulus (Sx)	0.550 in ³		
Allowable bending moment (Ma)	10.87 in-k		
Allowable shear force in web	1377 lb		
Torsional Properties			
St. Venant torsional constant (J x 1000)	0.397 in ⁴		
Warping constant (Cw)	4.967 in ⁶		
Distance from shear center to neutral axis (Xo)	-2.276 in		
Distance between shear center and web centerline (m)	1.345 in		
Radii of gyration (Ro)	3.590 in		
Torsional flexural constant (Beta)	0.598		



Load-bearing walls

- Curtain walls
- Tall interior walls

· Floor & ceiling joists

Trusses



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

• This section does not meet the requirements of AISI North American Specifications. Increase the thickness or contact ClarkDietrich Tech Support for design solutions.

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
- 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).