

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

05.40.00 (Cold-Formed Metal Framing)

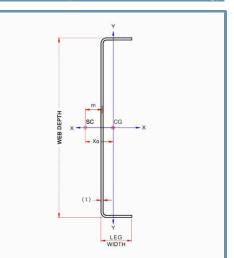
800T300-97 (50ksi, CP60)

800 (8") structural track with T300 (3") leg - 97mils (12ga)

Coating: CP60 per AISI S240		
Geometric Properties		
Web depth: 8.356 in	Thickness: 97mils (12ga)	

Color Code: Red

Geometric Proper	rties	
Web depth: 8.356 in Leg width: 3.00 in	Thickness: 97mils (12ga) Design Thickness: 0.1017 in Min. steel thickness: 0.0966 in	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	A)	1.422 in ²
Member weight per foot of length		4.84 lb/ft
Moment of inertia (Ix)		14.680 in ⁴
Section Modulus (Sx)		3.514in ³
Radius of gyration (Rx)		3.213 in
Gross moment of inerita (ly)		1.188 in ⁴
Gross radius of gyration (Ry)		0.914 in
Effective Section Properties, Strong Axis		
Effective Area (Ae)		0.754 in ²
Moment of inertia for deflection (lx)		12.795 in ⁴
Section modulus (Sx)		2.586 in ³
Allowable bending moment (Ma)		77.44 in-k
Allowable shear force in web		10885 lb
Torsional Properties		
St. Venant torsional cor	nstant (J x 1000)	4.901 in ⁴
Warping constant (Cw)		14.472 in ⁶
Distance from shear center to neutral axis (Xo)		-1.628 in
Distance between shear center and web centerline (m)		1.006 in
Radii of gyration (Ro)		3.717 in
Torsional flexural constant (Beta)		0.808
 Effective properties in 	corporate the strength increase from	the cold work of forming



· 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
- 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).