

Product Submittal Sheet

Technical Services: 888-437-3244 Engineering Services: 877-832-3206 Sales: 800-543-7140 clarkdietrich.com

Product catego	ory: T250	T250 (2-1/2" Leg Structural Track)		05.40.00 (Cold-Formed Metal Fra
Product name	5501	250-97 (50ksi, CP60) - Unpu	unched : CP60 per ASTM C955	
Geometric Pro	perties	·		
Web depth	5.856 in			
Leg width	2.5 in			m
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			ž – Xo – –
Gross Section	Properties	of Full Section, Strong	Axis	
Cross sectional area (A) 1.066 in ²				
Member weight pe	er foot of lengt	(t)		
Moment of inertia (Ix) 5.589 in ⁴				
Section modulus (Sx) 1.909 in ³				Ý
Radius of gyration (Rx)			2.290 in	
Gross moment of inertia (Iy)			0.646 in ⁴	
Gross radius of gy	ration (Ry)		0.779 in	Used in framing applications:
Effective Secti	on Propert	 Load-bearing walls 		
Effective Section Properties, Strong AxisEffective Area (Ae)0.716 in²			0.716 in ²	 Curtain walls
Moment of inertia for deflection (Ix)			5.074 in ⁴	 Tall interior walls
Section modulus (Sx)			1.470 in ³	
Allowable bending moment (Ma))	44 02 in-k	 Floor & ceiling joists

44.02 in-k

10197 lb

Trusses

Allowable shear force in web

Allowable bending moment (Ma)

Torsional Properties

St. Venant torsion constant (J x 1000)	3.674 in⁴
Warping constant (Cw)	3.801 in ⁶
Distance from shear center to neutral axis (Xo)	-1.453 in
Distance between shear center and web centerline (m)	0.880 in
Radii of gyration (Ro)	2.822 in
Torsional flexural constant (Beta)	0.735

ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-12
- * Effective properties incorporate the strength increase from the cold work of forming
- · Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003 ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance
- Certification Program, ICC-ES ESR-1166P and Intertek CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at itools.clarkdietrich.com

Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

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).

LEED 2009 Credit MR 2 & MR 4 -- ClarkDietrich's steel products are 100% recyclable and have a national average recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at (info@clarkdietrich.com / 888-437-3244)

Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:

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Structural Track