

## **Product Submittal Sheet**

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

Product category: Product name:		T250 (2-1/2" Leg Structural Track) <b>400T250-68 (50ksi, CP60) - Unpunched</b>			05.40.00 (Cold-Formed Metal Framing)		
					Y		
		00		•	:CP60 per ASTM C955 :Orange		
<b>Geometric Pro</b>	pertie	S					×
Web depth	4.250						Track
Leg width	2.5 in					m	
Design thickness	0.0713	3 in	Min. steel tl	nickness	0.0677 in	SC CG	
Yield strength, Fy	50 ksi		*Fy with Co	ld-Work, Fya	50.0 ksi		a
Ultimate, Fu	65.0 k	si				₩ <b>×</b>	tur
<b>Gross Section</b>	Prope	rties o	of Full Secti	on, Strong	Axis		Structural
Cross sectional are	Cross sectional area (A)				0.641 in <sup>2</sup>		E.
	Member weight per foot of length				2.18 lb/ft	(t)	<b>S</b>
Moment of inertia	Moment of inertia (Ix)				1.928 in⁴		
Section modulus (Sx)					0.908 in <sup>3</sup>	Y	
Radius of gyration (Rx)					1.735 in	UIDTH	
Gross moment of i	Gross moment of inertia (ly)				0.418 in <sup>4</sup>		
Gross radius of gy	Gross radius of gyration (Ry)				0.808 in	Used in framing applications:	
Effective Section	on Pro	pertie	es. Strong A	Axis		<ul> <li>Load-bearing walls</li> </ul>	
Effective Section Properties, Strong Axis Effective Area (Ae)					0.361 in <sup>2</sup>	<ul> <li>Curtain walls</li> </ul>	
	Moment of inertia for deflection (Ix)				1.560 in <sup>4</sup>	<ul> <li>Tall interior walls</li> </ul>	
Section modulus (Sx)					0.574 in <sup>3</sup>		
Allowable bending moment (Ma)					17.19 in-k	<ul> <li>Floor &amp; ceiling joists</li> </ul>	
		1 - 7				T	

Trusses

Allowable shear force in web **Torsional Properties** 

St. Venant torsion constant (J x 1000)	1.086 in <sup>4</sup>
Warping constant (Cw)	1.289 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.637 in
Distance between shear center and web centerline (m)	0.961 in
Radii of gyration (Ro)	2.519 in
Torsional flexural constant (Beta)	0.578

## **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).

5205 lb

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: