

# **Product Submittal Sheet**

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

T250 (2-1/2" Lea Structural Track) **Product category: Product name:** 1400T250-54 (50ksi, CP60) - Unpunched

54mils (16ga)

Coating: CP60 per ASTM C955

Color coding: Green

### **Geometric Properties**

Web depth 14.198 in Lea width 2.5 in

Design thickness 0.0566 in Min. steel thickness 0.0538 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)	1.075 in <sup>2</sup>
Member weight per foot of length	3.66 lb/ft
Moment of inertia (Ix)	27.061 in <sup>4</sup>
Section modulus (Sx)	3.812 in <sup>3</sup>
Radius of gyration (Rx)	5.018 in
Gross moment of inertia (ly)	0.458 in⁴
Gross radius of gyration (Ry)	0.653 in
Section modulus (Sx) Radius of gyration (Rx) Gross moment of inertia (Iy)	3.812 in 5.018 in 0.458 in

### **Effective Section Properties, Strong Axis**

Effective Area (Ae)	0.251 in <sup>2</sup>
Moment of inertia for deflection (Ix)	19.427 in⁴
Section modulus (Sx)	1.616 in <sup>3</sup>
Allowable bending moment (Ma)	48.39 in-k
Allowable shear force in web	1160 lb

### **Torsional Properties**

St. Venant torsion constant (J x 1000)	1.148 in⁴
Warping constant (Cw)	17.550 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-0.954 in
Distance between shear center and web centerline (m)	0.633 in
Radii of gyration (Ro)	5.150 in
Torsional flexural constant (Beta)	0.966

Web-depth to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.

### **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)

# (t)

05.40.00 (Cold-Formed Metal Framing)

## **Used in framing applications:**

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses

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