

# **Product Submittal Sheet**

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

Product category: T250 (2-1/2" Leg Structural Track)
Product name: 400T250-33 (33ksi, CP60) - Unpunched

33mils (20ga) Coating: CP60 per ASTM C955

Color coding: White

### **Geometric Properties**

Web depth 4.146 in Leg width 2.5 in

Design thickness 0.0346 in Min. steel thickness 0.0329 in Yield strength, Fy 33 ksi \*Fy with Cold-Work, Fya 33.0 ksi

Ultimate, Fu 45.0 ksi

### **Gross Section Properties of Full Section, Strong Axis**

Cross sectional area (A)	0.311 in <sup>2</sup>
Member weight per foot of length	1.06 lb/ft
Moment of inertia (Ix)	0.914 in <sup>4</sup>
Section modulus (Sx)	0.441 in <sup>3</sup>
Radius of gyration (Rx)	1.714 in
Gross moment of inertia (Iy)	0.207 in <sup>4</sup>
Gross radius of gyration (Ry)	0.815 in

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

Effective Area (Ae) 0.113 in² 0.636 in⁴ Section modulus (Sx) 0.222 in³ Allowable bending moment (Ma) 4.38 in-k Allowable shear force in web 940 lb

This section does not meet the requirements of AISI North American Specifications. Increase the thickness or contact ClarkDietrich Technical Services @ 888-437-3244 for design solutions.

### **Torsional Properties**

St. Venant torsion constant (J x 1000)	0.124 in⁴	
Warping constant (Cw)	0.615 in <sup>6</sup>	
Distance from shear center to neutral axis (Xo)	-1.658 in	
Distance between shear center and web centerline (m)	0.973 in	
Radii of gyration (Ro)	2.520 in	
Torsional flexural constant (Beta)	0.567	

### **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 <a href="itools.clarkdietrich.com">itools.clarkdietrich.com</a>

# **Sustainability Credits:**

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

Fax:

**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)

# 

05.40.00 (Cold-Formed Metal Framing)

# Used in framing applications:

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

ı	Project information	Contractor Information	Architect information
	Name:	Name:	Name:
	Address:	Contact:	Contact:
ı		Phone:	Phone:

Phor Fax:

CD-STRT © 07/18 ClarkDietrich Building Systems