

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) | 1 | 05.40.00 (Cold-Formed Metal Fram | ing) |
|--|--------------------|-----------------------|--|-----------------------------------|------------|
| Product name: | 362T250-97 (50k | | | Y | |
| | 97mils (12ga) | | CP60 per ASTM C955 | | |
| Geometric Propertie | es | | | | × |
| Web depth 3.981 | l in | | | | Track |
| Leg width 2.5 ir Design thickness 0.10 ² | | l thickness | 0.0966 in | <u>ج</u> | |
| Yield strength, Fy 50 ks | | Cold-Work, Fya | 50.0 ksi | | a |
| Ultimate, Fu 65.0 | • | 5010-7701K, 1 ya | 50.0 KSI | | tur |
| Gross Section Prope | erties of Full Sec | tion, Strong | Axis | | Structural |
| Cross sectional area (A) | | | | | t. |
| Member weight per foot of length | | | 2.98 lb/ft | (t) | S |
| Moment of inertia (Ix) | | | 2.300 in⁴ | | |
| Section modulus (Sx) | | | 1.156 in ³ | Ŷ | |
| Radius of gyration (Rx) | | | 1.621 in | LEG WIDTH | |
| | | | 0.570 in⁴ | | |
| Gross radius of gyration | (Ry) | | 0.807 in | Used in framing applications: | |
| Effective Section Properties, Strong Axis | | | Load-bearing walls | | |
| Effective Area (Ae) | . / | • | 0.666 in ² | Curtain walls | |
| Moment of inertia for deflection (Ix) | | 2.070 in ⁴ | Tall interior walls | | |
| Section modulus (Sx) | | | 0.852 in ³ | | |
| Allowable bending moment (Ma) | | 25.50 in-k | Floor & ceiling joists | | |

6622 lb

Trusses

Allowable shear force in web **Torsional Properties**

| Torsional Properties | |
|--|-----------------------|
| St. Venant torsion constant (J x 1000) | 3.016 in⁴ |
| Warping constant (Cw) | 1.524 in ⁶ |
| Distance from shear center to neutral axis (Xo) | -1.667 in |
| Distance between shear center and web centerline (m) | 0.969 in |
| Radii of gyration (Ro) | 2.461 in |
| Torsional flexural constant (Beta) | 0.541 |
| | |

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 -- Clark Dietrich'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: |
| | | |