# ClarkDietrich®

# Product Submittal Sheet

Technical Services: 888-437-3244
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**05.40.00 (Cold-Formed Metal Framing)**

**Product category:** T250 (2-1/2" Leg Structural Track)
**Product name:** **1000T250-43 (33ksi, CP60) - Unpunched**
43mils (18ga)
Coating: CP60 per ASTM C955
Color coding: Yellow

## Geometric Properties

| | | | |
|---|---|---|---|
| Web depth | 10.161 in | | |
| Leg width | 2.5 in | | |
| Design thickness | 0.0451 in | Min. steel thickness | 0.0428 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) | 0.676 in$^2$ |
| Member weight per foot of length | 2.30 lb/ft |
| Moment of inertia (Ix) | 9.518 in$^4$ |
| Section modulus (Sx) | 1.873 in$^3$ |
| Radius of gyration (Rx) | 3.752 in |
| Gross moment of inertia (Iy) | 0.344 in$^4$ |
| Gross radius of gyration (Ry) | 0.713 in |

## Effective Section Properties, Strong Axis

| | |
|---|---|
| Effective Area (Ae) | 0.192 in$^2$ |
| Moment of inertia for deflection (Ix) | 7.173 in$^4$ |
| Section modulus (Sx) | 0.877 in$^3$ |
| Allowable bending moment (Ma) | 17.32 in-k |
| Allowable shear force in web | 822 lb |

## Torsional Properties

| | |
|---|---|
| St. Venant torsion constant (J x 1000) | 0.458 in$^4$ |
| Warping constant (Cw) | 6.477 in$^6$ |
| Distance from shear center to neutral axis (Xo) | -1.147 in |
| Distance between shear center and web centerline (m) | 0.737 in |
| Radii of gyration (Ro) | 3.988 in |
| Torsional flexural constant (Beta) | 0.917 |

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

**Structural Track**



**Used in framing applications:**
• **Load-bearing walls**
• **Curtain walls**
• **Tall interior walls**
• **Floor & ceiling joists**
• **Trusses**

## 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
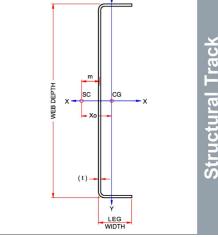• SDS & Product Certification Information is available at itools.clarkdietrich.com

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

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