

Product category: T300 (3" Leg Structural Track)
Product name: **400T300-97 (50ksi, CP60) - Unpunched**
 97mils (12ga) Coating: CP60 per ASTM C955
 Color coding: Red

Geometric Properties

Web depth	4.356 in		
Leg width	3 in		
Design thickness	0.1017 in	Min. steel thickness	0.0966 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)	1.015 in ²
Member weight per foot of length	3.45 lb/ft
Moment of inertia (Ix)	3.284 in ⁴
Section modulus (Sx)	1.508 in ³
Radius of gyration (Rx)	1.799 in
Gross moment of inertia (Iy)	0.967 in ⁴
Gross radius of gyration (Ry)	0.976 in

Effective Section Properties, Strong Axis

Effective Area (Ae)	0.689 in ²
Moment of inertia for deflection (Ix)	2.786 in ⁴
Section modulus (Sx)	1.005 in ³
Allowable bending moment (Ma)	30.10 in-k
Allowable shear force in web	7337 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	3.499 in ⁴
Warping constant (Cw)	3.111 in ⁶
Distance from shear center to neutral axis (Xo)	-2.061 in
Distance between shear center and web centerline (m)	1.189 in
Radii of gyration (Ro)	2.905 in
Torsional flexural constant (Beta)	0.497

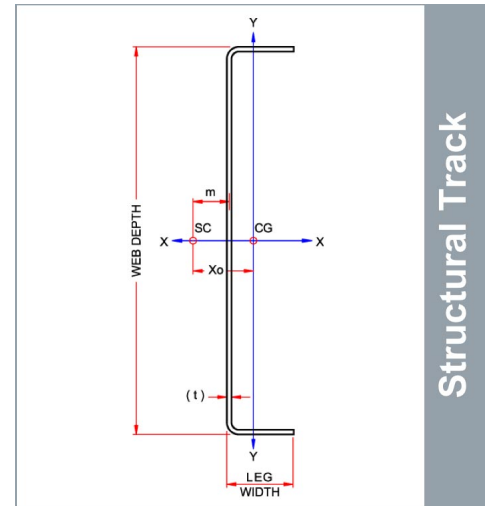
ASTM & Code Standards:

- 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 tools.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)

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

Name:
Address:

Contractor Information

Name:
Contact:
Phone:
Fax:

Architect Information

Name:
Contact:
Phone:
Fax: