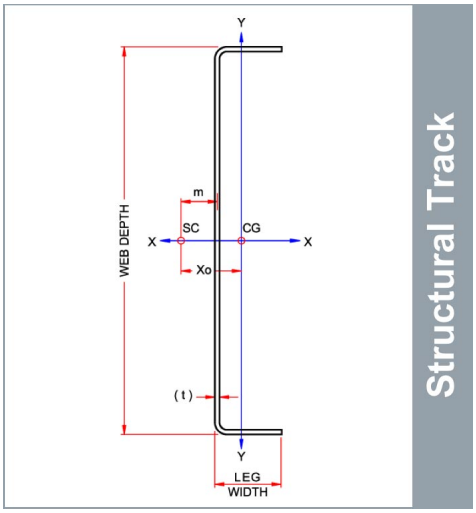
Product Submittal Sheet

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

Product category: T300 (3" Leg Structural Track)
Product name: **1400T300-54 (50ksi, CP60) - Unpunched**
54mils (16ga)
Coating: CP60 per ASTM C955
Color coding: Green

05.40.00 (Cold-Formed Metal Framing)



Geometric Properties

Web depth	14.198 in		
Leg width	3 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)	1.131 in^2
Member weight per foot of length	3.85 lb/ft
Moment of inertia (Ix)	29.891 in^4
Section modulus (Sx)	4.211 in^3
Radius of gyration (Rx)	5.140 in
Gross moment of inertia (Iy)	0.769 in^4
Gross radius of gyration (Ry)	0.825 in

Effective Section Properties, Strong Axis

Effective Area (Ae)	0.253 in^2
Moment of inertia for deflection (Ix)	20.332 in^4
Section modulus (Sx)	1.636 in^3
Allowable bending moment (Ma)	48.97 in-k
Allowable shear force in web	1160 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	1.208 in^4
Warping constant (Cw)	28.800 in^6
Distance from shear center to neutral axis (Xo)	-1.271 in
Distance between shear center and web centerline (m)	0.829 in
Radii of gyration (Ro)	5.359 in
Torsional flexural constant (Beta)	0.944

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

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

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)

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

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