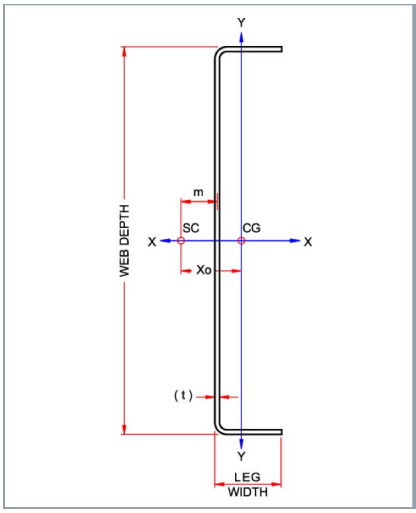
Product Submittal Sheet

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: **550T300-43 (33ksi, CP60) - Unpunched**
43mils (18ga)
Coating: CP60 per ASTM C955
Color coding: Yellow

05.40.00 (Cold-Formed Metal Framing)



Geometric Properties

Web depth	5.661 in		
Leg width	3 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)	0.518 in^2
Member weight per foot of length	1.76 lb/ft
Moment of inertia (Ix)	2.755 in^4
Section modulus (Sx)	0.973 in^3
Radius of gyration (Rx)	2.306 in
Gross moment of inertia (Iy)	0.485 in^4
Gross radius of gyration (Ry)	0.967 in

Effective Section Properties, Strong Axis

Effective Area (Ae)	0.188 in^2
Moment of inertia for deflection (Ix)	1.986 in^4
Section modulus (Sx)	0.510 in^3
Allowable bending moment (Ma)	10.08 in-k
Allowable shear force in web	1504 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)	0.351 in^4
Warping constant (Cw)	2.687 in^6
Distance from shear center to neutral axis (Xo)	-1.904 in
Distance between shear center and web centerline (m)	1.133 in
Radii of gyration (Ro)	3.143 in
Torsional flexural constant (Beta)	0.633

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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