

**Product category:** T300 (3" Leg Structural Track)  
**Product name:** **400T300-43 (33ksi, CP60) - Unpunched**  
43mils (18ga) Coating: CP60 per ASTM C955  
Color coding: Yellow

### Geometric Properties

Web depth 4.161 in  
Leg width 3 in  
Design thickness 0.0451 in Min. steel thickness 0.0428 in  
Yield strength,  $F_y$  33 ksi \* $F_y$  with Cold-Work,  $F_{ya}$  33.0 ksi  
Ultimate,  $F_u$  45.0 ksi

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A) 0.451 in<sup>2</sup>  
Member weight per foot of length 1.53 lb/ft  
Moment of inertia (I<sub>x</sub>) 1.384 in<sup>4</sup>  
Section modulus (S<sub>x</sub>) 0.665 in<sup>3</sup>  
Radius of gyration (R<sub>x</sub>) 1.753 in  
Gross moment of inertia (I<sub>y</sub>) 0.439 in<sup>4</sup>  
Gross radius of gyration (R<sub>y</sub>) 0.987 in

### Effective Section Properties, Strong Axis

Effective Area (A<sub>e</sub>) 0.183 in<sup>2</sup>  
Moment of inertia for deflection (I<sub>x</sub>) 0.955 in<sup>4</sup>  
Section modulus (S<sub>x</sub>) 0.334 in<sup>3</sup>  
Allowable bending moment (M<sub>a</sub>) 6.60 in-k  
Allowable shear force in web 1739 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) 0.305 in<sup>4</sup>  
Warping constant (C<sub>w</sub>) 1.313 in<sup>6</sup>  
Distance from shear center to neutral axis (X<sub>o</sub>) -2.097 in  
Distance between shear center and web centerline (m) 1.210 in  
Radii of gyration (R<sub>o</sub>) 2.906 in  
Torsional flexural constant (Beta) 0.479

### 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](http://itools.clarkdietrich.com)

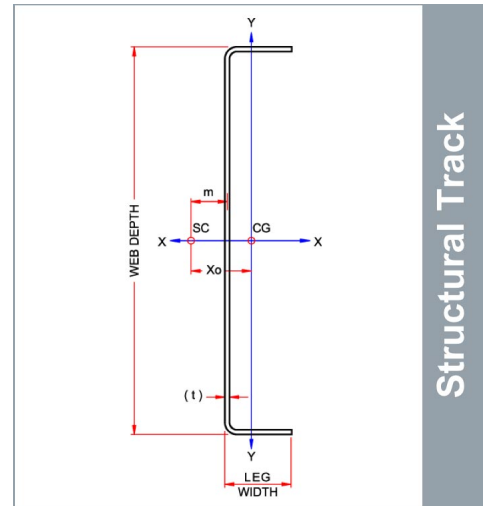
### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://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](mailto:info@clarkdietrich.com) / 888-437-3244)

### 05.40.00 (Cold-Formed Metal Framing)



Structural Track

### 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: