

**Product category:** T150 (1-1/2" Leg Structural Track)  
**Product name:** **1400T150-54 (50ksi, CP60) - Unpunched**  
 54mils (16ga) Coating: CP60 per ASTM C955  
 Color coding: Green

### Geometric Properties

Web depth	14.198 in		
Leg width	1.5 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)	0.962 in <sup>2</sup>
Member weight per foot of length	3.27 lb/ft
Moment of inertia (Ix)	21.402 in <sup>4</sup>
Section modulus (Sx)	3.015 in <sup>3</sup>
Radius of gyration (Rx)	4.718 in
Gross moment of inertia (Iy)	0.105 in <sup>4</sup>
Gross radius of gyration (Ry)	0.330 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.246 in <sup>2</sup>
Moment of inertia for deflection (Ix)	17.156 in <sup>4</sup>
Section modulus (Sx)	1.547 in <sup>3</sup>
Allowable bending moment (Ma)	46.33 in-k
Allowable shear force in web	1160 lb

### Torsional Properties

St. Venant torsion constant (J x 1000)	1.027 in <sup>4</sup>
Warping constant (Cw)	4.280 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-0.410 in
Distance between shear center and web centerline (m)	0.283 in
Radii of gyration (Ro)	4.747 in
Torsional flexural constant (Beta)	0.993

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

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

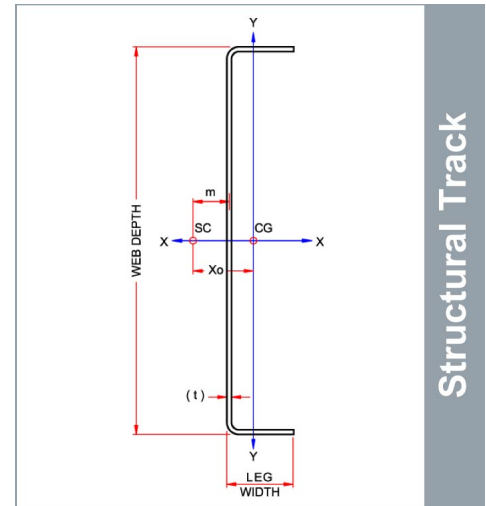
### Sustainability Credits:

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)



### 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: