

## 1400T125-54<sup>1</sup> (50ksi) Track

Product Description: 14" Track 16GA (1-1/4" Leg, 54mil)

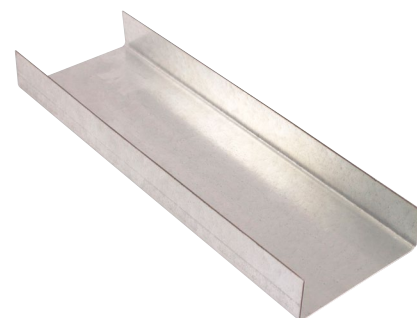
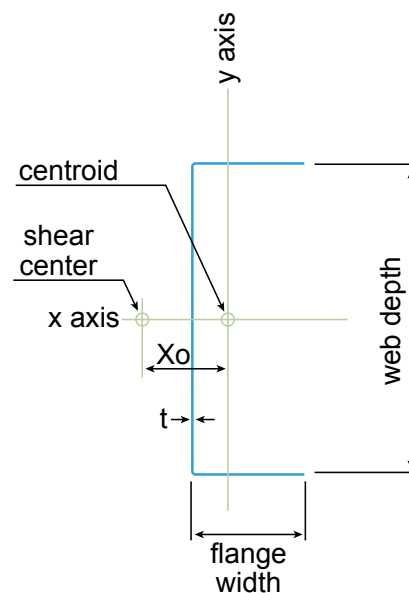
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	14 in.	Yield Strength, Fy	50 ksi
Leg Width	1.25 in.	Design Thickness	0.0566 in.
		Min. Steel Thickness	0.0538 in.

*\*1 Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.*

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.933
Weight (lb/ft)	Linear weight per foot	3.17
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	19.987
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	2.815
R <sub>x</sub> (in)	Radius of gyration about the x-axis	4.628
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.061
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.256
EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	16.406
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	1.518
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	37.95
V <sub>a</sub> (lb)	Allowable shear force in web	1160
TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.9965
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	2.559
X <sub>o</sub> (in)	Distance from shear center to centroid	-0.299
m (in)	Distance from shear center to mid-plane of web	0.209
R <sub>o</sub> (in)	Polar radius of gyration	4.645
Beta	Torsional Flexural Constant	0.996



### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006–2024
- AISI S100-16 (2020) w/S2-20
- Sheet Steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized Coating: ASTM A653/A653M

### Structural Members:

- ASTM C955; AISI S240
- Installed per ASTM C1007

### Additional Standards:

- AISI S201; AISI S202

### 3rd Party Certification

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