

1400T200-54¹ (50ksi) Track

Product Description: 14" Track 16GA (2" Leg, 54mil)

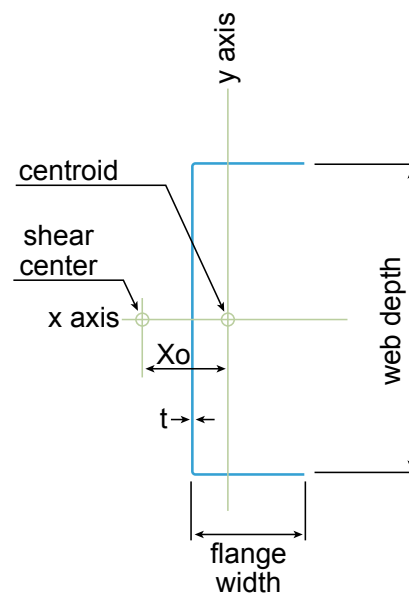
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	14 in.	Yield Strength, Fy	50 ksi
Leg Width	2 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 ²)	Total cross-sectional steel area	1.018
Weight (lb/ft)	Linear weight per foot	3.46
I _x (in ⁴)	Moment of inertia about the x-axis	24.232
S _x (in ³)	Section modulus about the x-axis	3.413
R _x (in)	Radius of gyration about the x-axis	4.879
I _y (in ⁴)	Moment of inertia about the y-axis	0.242
R _y (in)	Radius of gyration about the y-axis	0.487
EFFECTIVE PROPERTIES		
I _x (in ³)	Effective moment of inertia (x-axis)	18.385
S _x (in ³)	Effective section modulus (x-axis)	1.590
M _a (in-k)	Allowable bending moment-effective section modulus	39.75
V _{a_g} (lb)	Allowable shear force in web	1160
TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	1.0872
C _w (in ⁶)	Warping constant	9.520
X _o (in)	Distance from shear center to centroid	-0.665
m (in)	Distance from shear center to mid-plane of web	0.449
R _o (in)	Polar radius of gyration	4.948
Beta	Torsional Flexural Constant	0.982



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

For LEED Letter requests please submit through: www.buysuperstud.com