

1600T125-54¹ (50ksi) Track

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

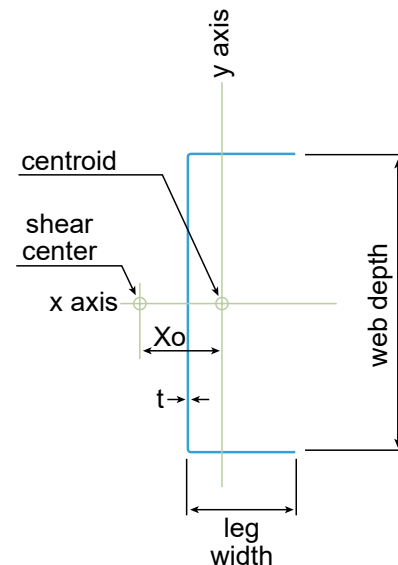
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	16 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 ²)	Total cross-sectional steel area	1.046
Weight (lb/ft)	Linear weight per foot	3.56
I _x (in ⁴)	Moment of inertia about the x-axis	28.500
S _x (in ³)	Section modulus about the x-axis	3.519
R _x (in)	Radius of gyration about the x-axis	5.219
I _y (in ⁴)	Moment of inertia about the y-axis	0.062
R _y (in)	Radius of gyration about the y-axis	0.243
EFFECTIVE PROPERTIES		
I _x (in ³)	Effective moment of inertia (x-axis)	22.345
S _x (in ³)	Effective section modulus (x-axis)	1.749
M _a (in-k)	Allowable bending moment-effective section modulus	43.72
V _a (lb)	Allowable shear force in web	1014
TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	1.1174
C _w (in ⁶)	Warping constant	3.432
X _o (in)	Distance from shear center to centroid	-0.272
m (in)	Distance from shear center to mid-plane of web	0.191
R _o (in)	Polar radius of gyration	5.232
Beta	Torsional Flexural Constant	0.997



CODES AND STANDARDS:

Super Stud/EB Metal US 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 or www.ebmetal.us