

1000T150-54 (50ksi) Track

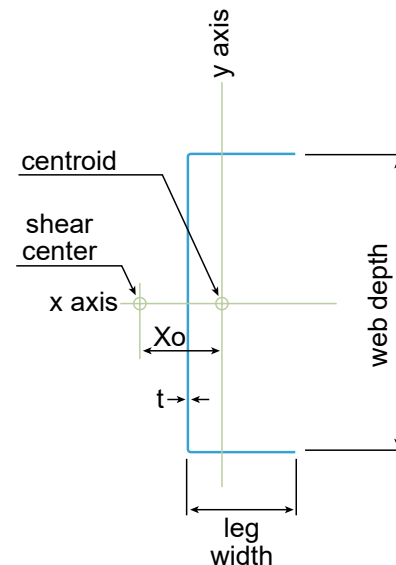
Product Description: 10" Track 16GA (1-1/2" Leg, 54mil)

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

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	10 in.	Yield Strength, F_y	50 ksi
Leg Width	1.50 in.	Design Thickness	0.0566 in.
		Min. Steel Thickness	0.0538 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.735
Weight (lb/ft)	Linear weight per foot	2.50
I_x (in ⁴)	Moment of inertia about the x-axis	9.065
S_x (in ³)	Section modulus about the x-axis	1.778
R_x (in)	Radius of gyration about the x-axis	3.512
I_y (in ⁴)	Moment of inertia about the y-axis	0.100
R_y (in)	Radius of gyration about the y-axis	0.368
EFFECTIVE PROPERTIES		
I_x (in ³)	Effective moment of inertia (x-axis)	7.881
S_x (in ³)	Effective section modulus (x-axis)	1.080
M_a (in-k)	Allowable bending moment-effective section modulus	32.32
V_a (lb)	Allowable shear force in web	1627
TORSIONAL PROPERTIES		
$J \times 1000$ (in ⁴)	St. Venant torsional constant	0.785
C_w (in ⁶)	Warping constant	2.013
X_o (in)	Distance from shear center to centroid	-0.509
m (in)	Distance from shear center to mid-plane of web	0.342
R_o (in)	Polar radius of gyration	3.567
Beta	Torsional Flexural Constant	0.980



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