

## 1000T150-43<sup>1</sup> Track

Product Description: 10" Track 18GA (1-1/2" Leg, 43mil)

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

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

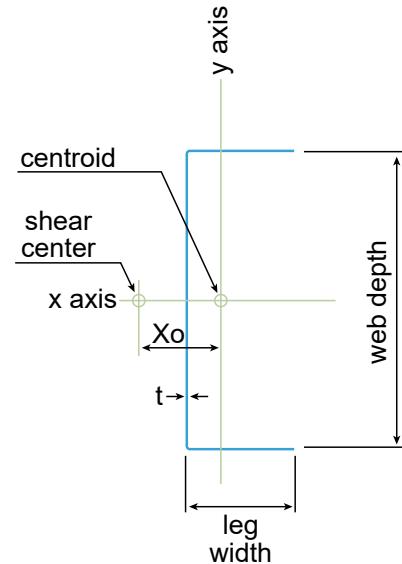
GEOMETRIC PROPERTIES			
Web Depth	10 in.	Yield Strength, $F_y$	33 ksi
Leg Width	1.50 in.	Design Thickness	0.0451 in.
		Min. Steel Thickness	0.0428 in.

<sup>1</sup> 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	0.586
Weight (lb/ft)	Linear weight per foot	1.99
$I_x$ (in <sup>4</sup> )	Moment of inertia about the x-axis	7.210
$S_x$ (in <sup>3</sup> )	Section modulus about the x-axis	1.419
$R_x$ (in)	Radius of gyration about the x-axis	3.508
$I_y$ (in <sup>4</sup> )	Moment of inertia about the y-axis	0.080
$R_y$ (in)	Radius of gyration about the y-axis	0.370

EFFECTIVE PROPERTIES		
$I_x$ (in <sup>3</sup> )	Effective moment of inertia (x-axis)	6.196
$S_x$ (in <sup>3</sup> )	Effective section modulus (x-axis)	0.837
$M_a$ (in-k)	Allowable bending moment-effective section modulus	13.82
$V_{a_g}$ (lb)	Allowable shear force in web	822

TORSIONAL PROPERTIES		
$J \times 1000$ (in <sup>4</sup> )	St. Venant torsional constant	0.3972
$C_w$ (in <sup>6</sup> )	Warping constant	1.612
$X_o$ (in)	Distance from shear center to centroid	-0.513
$m$ (in)	Distance from shear center to mid-plane of web	0.345
$R_o$ (in)	Polar radius of gyration	3.565
Beta	Torsional Flexural Constant	0.979



### 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](http://www.buysuperstud.com) or [www.ebmetal.us](http://www.ebmetal.us)

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