

250T200-43 Track

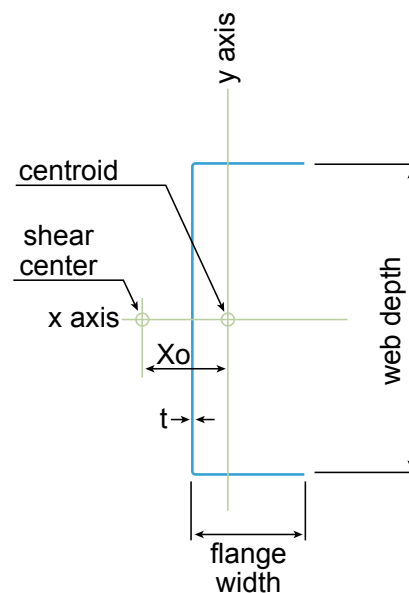
Product Description: 2-1/2" Track 18GA (2" Leg, 43mil)

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

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.5 in.	Yield Strength, F_y	33 ksi
Leg Width	2 in.	Design Thickness	0.0451 in.
		Min. Steel Thickness	0.0428 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.293
Weight (lb/ft)	Linear weight per foot	1.00
I_x (in ⁴)	Moment of inertia about the x-axis	0.366
S_x (in ³)	Section modulus about the x-axis	0.275
R_x (in)	Radius of gyration about the x-axis	1.119
I_y (in ⁴)	Moment of inertia about the y-axis	0.126
R_y (in)	Radius of gyration about the y-axis	0.656
EFFECTIVE PROPERTIES		
I_x (in ³)	Effective moment of inertia (x-axis)	0.289
S_x (in ³)	Effective section modulus (x-axis)	0.163
M_a (in-k)	Allowable bending moment-effective section modulus	3.22
V_{a_g} (lb)	Allowable shear force in web	1356
TORSIONAL PROPERTIES		
$J \times 1000$ (in ⁴)	St. Venant torsional constant	0.1985
C_w (in ⁶)	Warping constant	0.153
X_o (in)	Distance from shear center to centroid	-1.413
m (in)	Distance from shear center to mid-plane of web	0.810
R_o (in)	Polar radius of gyration	1.918
Beta	Torsional Flexural Constant	0.457



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