

250T200-18 Track

Product Line: 250NT200-18 NitroTrack 18 mil (25 ga.)

Coating: G40 (standard), G60 (special order)

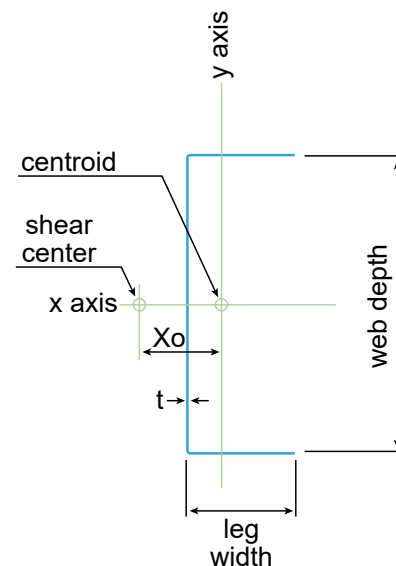
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.50 in.	Yield Strength, F_y	33 ksi
Leg Width	2 in.	Design Thickness	0.0188 in.
		Min. Steel Thickness	0.0179 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.123
Weight (lb/ft)	Linear weight per foot	0.42
I_x (in ⁴)	Moment of inertia about the x-axis	0.1525
S_x (in ³)	Section modulus about the x-axis	0.1165
R_x (in)	Radius of gyration about the x-axis	1.114
I_y (in ⁴)	Moment of inertia about the y-axis	0.0537
R_y (in)	Radius of gyration about the y-axis	0.661

EFFECTIVE PROPERTIES		
I_{xe} (in ³)	Effective moment of inertia (x-axis)	0.075
S_{xe} (in ³)	Effective section modulus (x-axis)	0.0407
M_a (in-k)	Allowable moment capacity	0.671
V_y (lb)	Allowable shear force in web	237

TORSIONAL PROPERTIES		
$J \times 1000$ (in ⁴)	St. Venant torsional constant	0.0145
C_w (in ⁶)	Warping constant	0.0631
X_o (in)	Distance from shear center to centroid	-1.4303
m (in)	Distance from shear center to mid-plane of web	0.8241
R_o (in)	Polar radius of gyration	1.9297
Beta	Torsional Flexural Constant	0.4506



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 and AISI S220-20
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U411, U412, U419, U420, U425, U435, U451, U465, UL 263, CIKV.R38201, CIKV7.R38201
- Tested in accordance with ASTM E119; ANSI/UL 263
- Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202
- Meets ASTM C754 when installed properly in structure

For LEED Letter requests please submit through:
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