

## 250T250-30 Track

Product Description: 2-1/2" Track DW 20GA (2-1/2" Leg, 30mil)

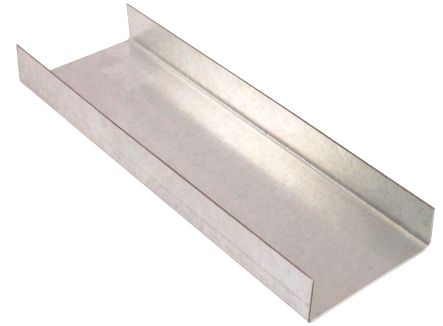
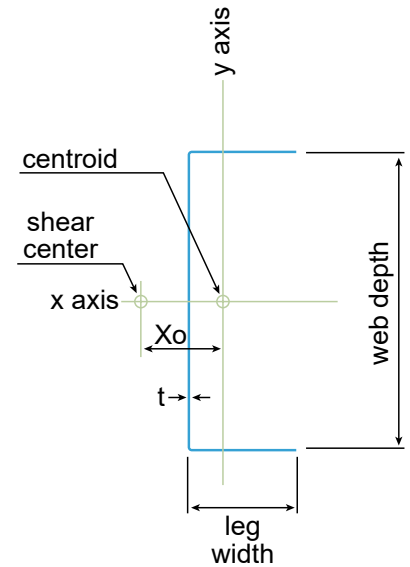
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.50 in.	Yield Strength, Fy	33 ksi
Leg Width	2.50 in.	Design Thickness	0.0312 in.
		Min. Steel Thickness	0.0296 in.

*\*Non-standard member*

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.2341
Weight (lb/ft)	Linear weight per foot	0.796
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	0.307
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	0.2321
R <sub>x</sub> (in)	Radius of gyration about the x-axis	1.1452
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.1605
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.828
EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.1772
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.1015
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	1.6739
V <sub>a<sub>g</sub></sub> (lb)	Allowable shear force in web	0.8325
TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.75896
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	0.1919
X <sub>o</sub> (in)	Distance from shear center to centroid	-1.8925
m (in)	Distance from shear center to mid-plane of web	1.0733
R <sub>o</sub> (in)	Polar radius of gyration	2.3619
Beta	Torsional Flexural Constant	0.3579



### 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