

## 800T250-33<sup>1</sup> Track

Product Description: 8" Track STR 20GA (2-1/2" Leg, 33 mil)

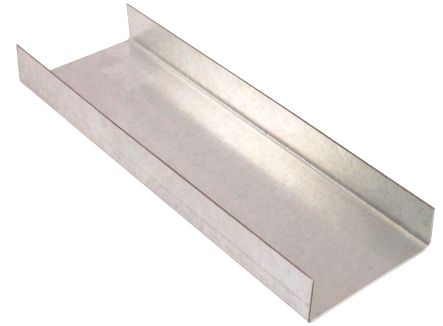
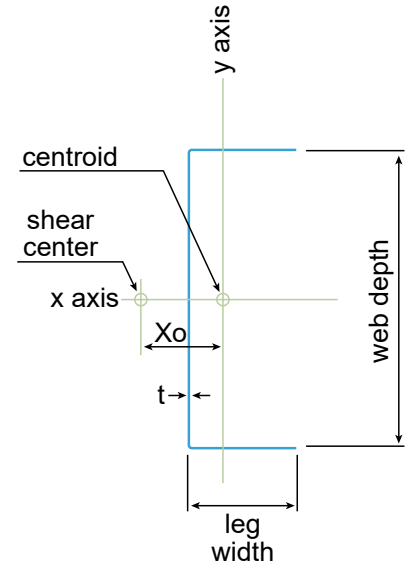
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	8 in.	Yield Strength, Fy	33 ksi
Leg Width	2.50 in.	Design Thickness	0.0346 in.
		Min. Steel Thickness	0.0329 in.

*\*1 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	0.450
Weight (lb/ft)	Linear weight per foot	1.53
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	4.319
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	1.061
R <sub>x</sub> (in)	Radius of gyration about the x-axis	3.099
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.252
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.748
EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	3.383
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.442
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	8.74
V <sub>a<sub>g</sub></sub> (lb)	Allowable shear force in web	465
TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.179
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	2.986
X <sub>o</sub> (in)	Distance from shear center to centroid	-1.278
m (in)	Distance from shear center to mid-plane of web	0.804
R <sub>o</sub> (in)	Polar radius of gyration	3.435
Beta	Torsional Flexural Constant	0.862



### 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)