

## 250T125-33 DW33 Track

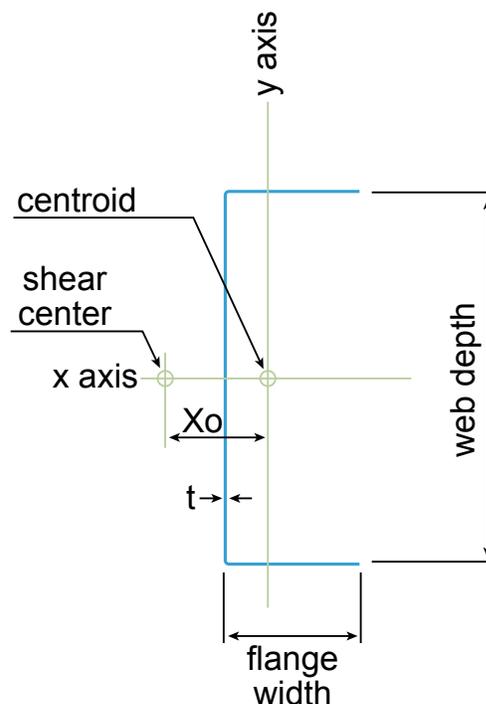
Product Description: 2-1/2" Track 20GA (1-1/4" Leg, 33mil)

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

Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.5 in.	Yield Strength, $F_y$	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0346 in.
		Min. Design Thickness	0.0329 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.173
Weight (lb/ft)	Linear weight per foot	0.59
$I_x$ (in <sup>4</sup> )	Moment of inertia about the x-axis	0.192
$S_x$ (in <sup>3</sup> )	Section modulus about the x-axis	0.145
$R_x$ (in)	Radius of gyration about the x-axis	1.054
$I_y$ (in <sup>4</sup> )	Moment of inertia about the y-axis	0.027
$R_y$ (in)	Radius of gyration about the y-axis	0.397
EFFECTIVE PROPERTIES		
$I_x$ (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.166
$S_x$ (in <sup>3</sup> )	Effective section modulus (x-axis)	0.103
$M_a$ (in-k)	Allowable bending moment-effective section modulus	2.04
$V_{a_g}$ (lb)	Allowable shear force in web	1024
TORSIONAL PROPERTIES		
$J \times 1000$ (in <sup>4</sup> )	St. Venant torsional constant	0.0690
$C_w$ (in <sup>6</sup> )	Warping constant	0.033
$X_o$ (in)	Distance from shear center to centroid	-0.760
$m$ (in)	Distance from shear center to mid-plane of web	0.456
$R_o$ (in)	Polar radius of gyration	1.358
Beta	Torsional Flexural Constant	0.687



### CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- 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

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