

www.millsteelframing.com │ 2905 Lucerne Dr. SE Grand Rapids, MI 49546 │ (812) 670-4195

## Structural Track 400T125-33

Product Description 20 GA GALV 4.00" WEB x 1.25"

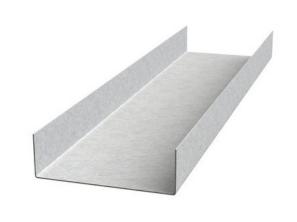
**FLANGE TRACK .033 MIN** 

**GAUGE** 

Coating G60

**Physical Properties** 

Design Thickness (in)0.0346Minimum Thickness (in)0.0329Web Width (in)4Flange Width (in)1.25Yield Strength (ksi)33



Gross Section Properties	
Cross Sectional Area (A)	0.225
Weight of Member (lb/ft)	0.76
Section Modulus (Sx)	0.265
Moment of Inertia (lx)	0.549
Radius of Gyration (Rx)	1.563
Gross Moment of Inertia (ly)	0.031
Gross Radium of Gyration (Ry)	0.371

Effective Section Properties	
Moment of Inertia for deflection (lxe)	0.484
Section Modulus (Sxe)	0.201
Allowable Bending moment (Ma)	3.97
Allowable shear force in web (U)(Vag)	940

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.0897
Warping constant (Cw)	0.095
Distance from shear center to neutral axis (Xo)	-0.63
Radii of gyration (Ro)	1.725
Torsional flexural constant (Beta)	0.867

## **ASTM & Code Standards**

- AISI S100-12 & ICC ES ESR-4062
- Framing meets ASTM A1003, A653 & C955

## Notes

- Calculated properties are based on AISI S100-16, North American Specification for Design of Cold-Formed Steel Structural Members.
- 2. The centerline bend radius is based on inside corner radii shown in thickness chart.
- 3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A3.3.2.
- 4. Tabulated gross properties are based on full-unreduced cross section of the studs, away from punchouts.
- 5. For deflection calculations, use the effective moment of inertia.
- 6. Allowable moment includes cold-work of forming.
- 7. Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus the bend radius. Hems on non-structural rack sections are ignored.

## Mill Steel Framing LEED Green Credits

MR Credit 2 MR Credit 4 • ConstructionWaste Management – Mill Steel Framing steel framing is 100% recyclable

WK Credit 4

 Recycled Content – Mill Steel Framing products contain no less than 25.5% post-consumer and 6.8% pre-consumer recycled content

MR Credit 5

• Regional Materials - Mill Steel Framing has manufacturing facilities in Indiana, Alabama & Texas

**V4 MR Credits** • Building Product Disclosure and Optimization EPD (1 point)

• Materials Ingredients (1 point) – Construction and Demolition Waste Management (1 point)

