

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

## Structural Track 400t300-97

Product Description 12 GA GALV 4.00" WEB X 3.00"

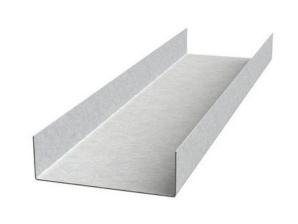
**FLANGE TRACK .097** 

**MIN GAUGE** 

Coating G60

**Physical Properties** 

Design Thickness (in) 0.1017
Minimum Thickness (in) 0.0966
Web Width (in) 4
Flange Width (in) 3
Yield Strength (ksi) 50



Gross Section Properties	
Cross Sectional Area (A)	_
Weight of Member (lb/ft)	_
Section Modulus (Sx)	_
Moment of Inertia (lx)	_
Radius of Gyration (Rx)	_
Gross Moment of Inertia (ly)	_
Gross Radium of Gyration (Ry)	_

<b>Effective Section Properties</b>	
Moment of Inertia for deflection (lxe)	_
Section Modulus (Sxe)	_
Allowable Bending moment (Ma)	_
Allowable shear force in web (U)(Vag)	_

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

## **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
- Recycled Co
- 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)

