

Structural Track 400T125-68G90

Product Description 14 GA GALV 4.00" WEB X 1.25" FLANGE TRACK .068 MIN GAUGE G90

Coating G90

Physical Properties

Design Thickness (in) 0.0713
Minimum Thickness (in) 0.0677
Web Width (in) 4
Flange Width (in) 1.25
Yield Strength (ksi) 50



Gross Section Properties

Cross Sectional Area (A)	0.462
Weight of Member (lb/ft)	1.57
Section Modulus (Sx)	0.541
Moment of Inertia (Ix)	1.151
Radius of Gyration (Rx)	1.577
Gross Moment of Inertia (Iy)	0.061
Gross Radium of Gyration (Ry)	0.364

Effective Section Properties

Moment of Inertia for deflection (Ixe)	1.134
Section Modulus (Sxe)	0.488
Allowable Bending moment (Ma)	14.62
Allowable shear force in web (U)(Vag)	5205

Torsional Properties

St. Venant torsion constant (J x 1000)	0.7835
Warping constant (Cw)	0.194
Distance from shear center to neutral axis (Xo)	-0.614
Radii of gyration (Ro)	1.731
Torsional flexural constant (Beta)	0.874

ASTM & Code Standards

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

Notes

1. 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** • ConstructionWaste Management – Mill Steel Framing steel framing is 100% recyclable
- MR 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)

