

Structural Track 800T150-97G90

Product Description 12 GA GALV 8.00" WEB X 1.50" FLANGE TRACK .097 MIN GAUGE G90 COATED G90

Coating G90

Physical Properties

Design Thickness (in) 0.1017
 Minimum Thickness (in) 0.0428
 Web Width (in) 8
 Flange Width (in) 1.5
 Yield Strength (ksi) 50



Gross Section Properties

Cross Sectional Area (A)	1.116
Weight of Member (lb/ft)	3.8
Section Modulus (Sx)	2.27
Moment of Inertia (Ix)	9.483
Radius of Gyration (Rx)	2.914
Gross Moment of Inertia (Iy)	0.165
Gross Radium of Gyration (Ry)	0.385

Effective Section Properties

Moment of Inertia for deflection (Ixe)	9.48
Section Modulus (Sxe)	2.192
Allowable Bending moment (Ma)	65.62
Allowable shear force in web (U)(Vag)	10885

Torsional Properties

St. Venant torsion constant (J x 1000)	3.8491
Warping constant (Cw)	2.162
Distance from shear center to neutral axis (Xo)	-0.564
Radii of gyration (Ro)	2.993
Torsional flexural constant (Beta)	0.965

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.

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- 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)

