

Structural Track 400T200-43

Product Description 18 GA GALV 4.00" WEB x 2.00" FLANGE TRACK .043 MIN GAUGE
Coating G60

Physical Properties

Design Thickness (in) 0.0451
Minimum Thickness (in) 0.0428
Web Width (in) 4
Flange Width (in) 2
Yield Strength (ksi) 33



Gross Section Properties

Cross Sectional Area (A)	0.36
Weight of Member (lb/ft)	1.23
Section Modulus (Sx)	0.482
Moment of Inertia (Ix)	1.002
Radius of Gyration (Rx)	1.668
Gross Moment of Inertia (Iy)	0.146
Gross Radium of Gyration (Ry)	0.637

Effective Section Properties

Moment of Inertia for deflection (Ixe)	0.811
Section Modulus (Sxe)	0.311
Allowable Bending moment (Ma)	6.14
Allowable shear force in web (U)(Vag)	1739

Torsional Properties

St. Venant torsion constant (J x 1000)	0.2443
Warping constant (Cw)	0.436
Distance from shear center to neutral axis (Xo)	-1.224
Radii of gyration (Ro)	2.164
Torsional flexural constant (Beta)	0.68

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)

