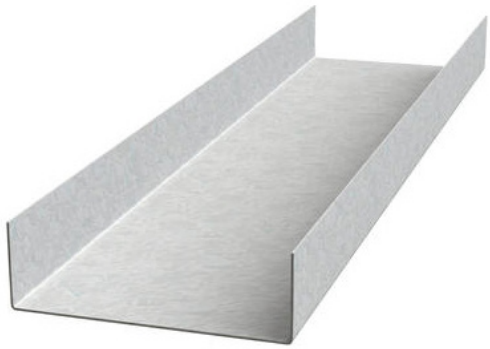
www.millsteelframing.com | 2905 Lucerne Dr. SE Grand Rapids, MI 49546 | (812) 670-4195

Structural Track 1000T200-43

Product Description **18 GA GALV 10.00" 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)	10
Flange Width (in)	2
Yield Strength (ksi)	33

Gross Section Properties	
Cross Sectional Area (A)	0.631
Weight of Member (lb/ft)	2.15
Section Modulus (Sx)	1.646
Moment of Inertia (Ix)	8.364
Radius of Gyration (Rx)	3.641
Gross Moment of Inertia (Iy)	0.183
Gross Radium of Gyration (Ry)	0.539

Effective Section Properties	
Moment of Inertia for deflection (Ixe)	6.724
Section Modulus (Sxe)	0.861
Allowable Bending moment (Ma)	17.01
Allowable shear force in web (U)(Vag)	822

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.4278
Warping constant (Cw)	3.54
Distance from shear center to neutral axis (Xo)	-0.813
Radii of gyration (Ro)	3.769
Torsional flexural constant (Beta)	0.953

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)