

Tracks (T)



MATERIAL	
Web (in)	10
Flange (in)	2
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.1017
Minimum Thickness (mil)	97
Gauge	12
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	4.84
Cross Sectional Area: A (in ²)	1.422
Moment of Inertia: Ix (in ⁴)	19.093
Section Modulus: Sx (in ³)	3.687
Radius of Gyration: Rx (in)	3.665
Moment of Inertia: Iy (in ⁴)	0.397
Radius of Gyration: Ry (in)	0.528

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	19.043	18.595
Section Modulus: Sxe (in ³)	3.432	3.086
Allowable Bending Moment: Ma (in-k)	67.81	92.39
Allowable Shear Force: Va (lb)	8846	9505
(check web crippling)		

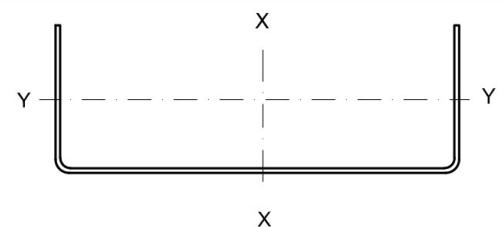
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	4.9010
Torsional Warping Constant: Cw (in ⁶)	7.924
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.791
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.786

PRODUCT ID

1000T200-97 (10x2x12ga)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S100-16



See Hermes/Hephaistos Technical Manual
for complete design data