

Tracks (T)



MATERIAL	
Web (in)	12
Flange (in)	2
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	3.08
Cross Sectional Area: A (in ²)	0.905
Moment of Inertia: Ix (in ⁴)	16.470
Section Modulus: Sx (in ³)	2.700
Radius of Gyration: Rx (in)	4.266
Moment of Inertia: Iy (in ⁴)	0.236
Radius of Gyration: Ry (in)	0.510

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	14.079	12.961
Section Modulus: Sxe (in ³)	1.583	1.351
Allowable Bending Moment: Ma (in-k)	26.12	33.77
Allowable Shear Force: Va (lb)	1354	1354
(check web crippling)		

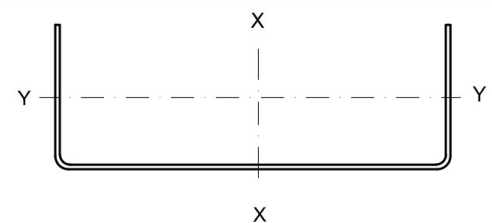
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.9663
Torsional Warping Constant: Cw (in ⁶)	6.714
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.730
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.358

PRODUCT

1200T200-54 (12x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data