

Tracks (T)



MATERIAL	
Web (in)	10
Flange (in)	3
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	3.81
Cross Sectional Area: A (in ²)	1.122
Moment of Inertia: Ix (in ⁴)	16.017
Section Modulus: Sx (in ³)	3.203
Radius of Gyration: Rx (in)	3.778
Moment of Inertia: Iy (in ⁴)	0.888
Radius of Gyration: Ry (in)	0.890

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	12.828	11.206
Section Modulus: Sxe (in ³)	2.302	1.863
Allowable Bending Moment: Ma (in-k)	45.49	55.76
Allowable Shear Force: Va (lb)	3838	4604
(check web crippling)		

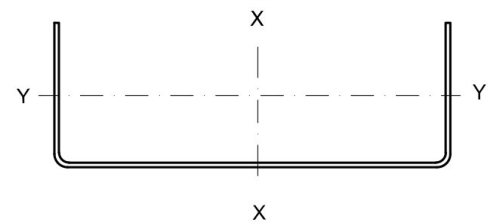
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.901
Torsional Warping Constant: Cw (in ⁶)	15.600
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.522
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.170

PRODUCT ID

1000T300-68 (10x3x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data