

Tracks (T)

MATERIAL	
Web (in)	10
Flange (in)	1½
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)	3.15
Cross Sectional Area: A (in ²)	0.926
Moment of Inertia: Ix (in ⁴)	11.450
Section Modulus: Sx (in ³)	2.234
Radius of Gyration: Rx (in)	3.517
Moment of Inertia: Iy (in ⁴)	0.124
Radius of Gyration: Ry (in)	0.366

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	11.345	10.778
Section Modulus: Sxe (in ³)	1.848	1.623
Allowable Bending Moment: Ma (in-k)	36.52	48.58
Allowable Shear Force: Va (lb)	3260	3260
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.5688
Torsional Warping Constant: Cw (in ⁶)	2.522
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.505
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.572

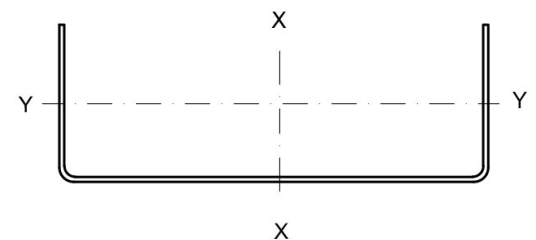


PRODUCT ID

1000T150-68 (10x1 ½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data