

Tracks (T)



MATERIAL	
Web (in)	10
Flange (in)	1¼
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)	3.03
Cross Sectional Area: A (in ²)	0.890
Moment of Inertia: Ix (in ⁴)	10.526
Section Modulus: Sx (in ³)	2.054
Radius of Gyration: Rx (in)	3.439
Moment of Inertia: Iy (in ⁴)	0.073
Radius of Gyration: Ry (in)	0.286

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	10.451	7.480
Section Modulus: Sxe (in ³)	1.782	1.056
Allowable Bending Moment: Ma (in-k)	35.22	31.62
Allowable Shear Force: Va (lb)	3260	1627
(check web crippling)		

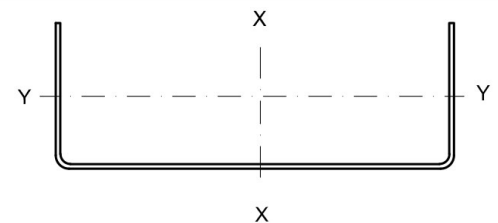
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.508
Torsional Warping Constant: Cw (in ⁶)	1.515
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.372
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.471

PRODUCT

1000T125-68 (10x1¼x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data