

Tracks (T)

MATERIAL	
Web (in)	10
Flange (in)	1¼
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	2.40
Cross Sectional Area: A (in ²)	0.707
Moment of Inertia: Ix (in ⁴)	8.337
Section Modulus: Sx (in ³)	1.635
Radius of Gyration: Rx (in)	3.434
Moment of Inertia: Iy (in ⁴)	0.059
Radius of Gyration: Ry (in)	0.288

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	7.961	7.480
Section Modulus: Sxe (in ³)	1.217	1.056
Allowable Bending Moment: Ma (in-k)	24.05	31.62
Allowable Shear Force: Va (lb)	1627	1627
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.755
Torsional Warping Constant: Cw (in ⁶)	1.212
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.376
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.467

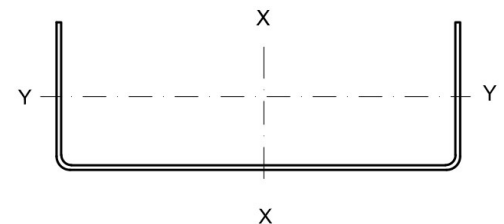


PRODUCT

1000T125-54 (10x1¼x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data