

Tracks (T)



MATERIAL	
Web (in)	10
Flange (in)	1¼
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.1017
Minimum Thickness (mil)	97
Gauge	12
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	4.32
Cross Sectional Area: A (in ²)	1.269
Moment of Inertia: Ix (in ⁴)	15.083
Section Modulus: Sx (in ³)	2.913
Radius of Gyration: Rx (in)	3.448
Moment of Inertia: Iy (in ⁴)	0.100
Radius of Gyration: Ry (in)	0.281

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	15.079	15.08
Section Modulus: Sxe (in ³)	2.907	2.754
Allowable Bending Moment: Ma (in-k)	57.45	82.45
Allowable Shear Force: Va (lb)	8846	9505
(check web crippling)		

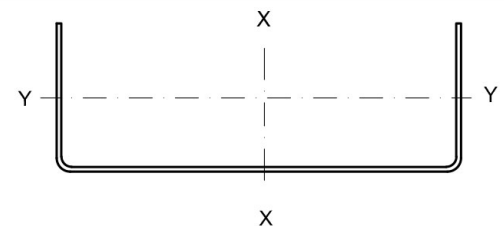
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	4.375
Torsional Warping Constant: Cw (in ⁶)	2.123
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.363
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.478

Product ID

1000T125-97 (10x1¼x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data