

Tracks (T)



MATERIAL	
Web (in)	12
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)	3.51
Cross Sectional Area: A (in ²)	1.033
Moment of Inertia: Ix (in ⁴)	16.834
Section Modulus: Sx (in ³)	2.749
Radius of Gyration: Rx (in)	4.037
Moment of Inertia: Iy (in ⁴)	0.074
Radius of Gyration: Ry (in)	0.268

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	16.243	15.69
Section Modulus: Sxe (in ³)	2.208	1.935
Allowable Bending Moment: Ma (in-k)	43.64	57.95
Allowable Shear Force: Va (lb)	2712	2712
(check web crippling)		

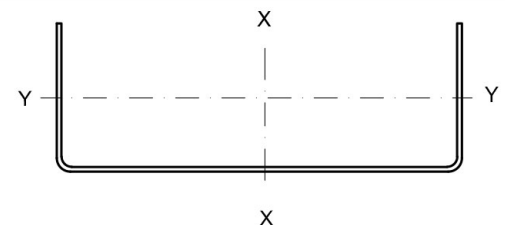
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.7501
Torsional Warping Constant: Cw (in ⁶)	2.270
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.329
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.060

PRODUCT ID

1200T125-68 (12x1¼x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data