

Tracks (T)

MATERIAL	
Web (in)	4
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)	1.57
Cross Sectional Area: A (in ²)	0.462
Moment of Inertia: Ix (in ⁴)	1.151
Section Modulus: Sx (in ³)	0.541
Radius of Gyration: Rx (in)	1.577
Moment of Inertia: Iy (in ⁴)	0.061
Radius of Gyration: Ry (in)	0.364

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.151	1.136
Section Modulus: Sxe (in ³)	0.519	0.49
Allowable Bending Moment: Ma (in-k)	10.25	14.66
Allowable Shear Force: Va (lb)	3435	5205
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.7835
Torsional Warping Constant: Cw (in ⁶)	0.194
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.614
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.731

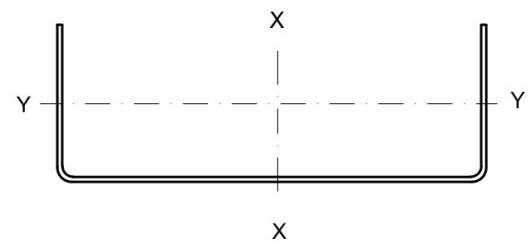


PRODUCT ID

400T125-68 (4x1¼x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data