

Tracks (T)

MATERIAL	
Web (in)	6
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)	2.06
Cross Sectional Area: A (in ²)	0.605
Moment of Inertia: Ix (in ⁴)	2.970
Section Modulus: Sx (in ³)	0.951
Radius of Gyration: Rx (in)	2.216
Moment of Inertia: Iy (in ⁴)	0.067
Radius of Gyration: Ry (in)	0.332

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.970	2.936
Section Modulus: Sxe (in ³)	0.917	0.860
Allowable Bending Moment: Ma (in-k)	18.12	25.74
Allowable Shear Force: Va (lb)	4348	5352
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.025
Torsional Warping Constant: Cw (in ⁶)	0.483
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.503
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.296

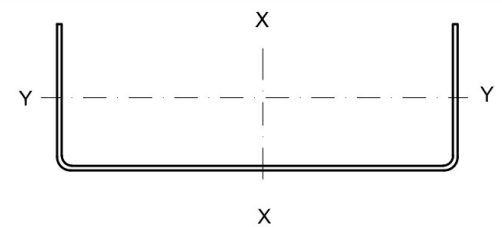


PRODUCT ID

600T125-68 (6x1¼x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data