

Tracks (T)

MATERIAL	
Web (in)	6
Flange (in)	1½
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)	2.18
Cross Sectional Area: A (in ²)	0.641
Moment of Inertia: Ix (in ⁴)	3.310
Section Modulus: Sx (in ³)	1.059
Radius of Gyration: Rx (in)	2.273
Moment of Inertia: Iy (in ⁴)	0.113
Radius of Gyration: Ry (in)	0.419

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	3.265	3.165
Section Modulus: Sxe (in ³)	0.965	0.89
Allowable Bending Moment: Ma (in-k)	19.06	26.72
Allowable Shear Force: Va (lb)	4348	5352
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.086
Torsional Warping Constant: Cw (in ⁶)	0.797
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.669
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.406

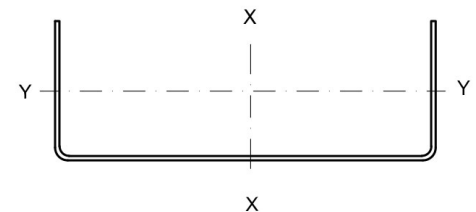


PRODUCT ID

600T150-68 (6x1½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data