

Tracks (T)



MATERIAL	
Web (in)	6
Flange (in)	3
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)	2.84
Cross Sectional Area: A (in ²)	0.837
Moment of Inertia: Ix (in ⁴)	4.875
Section Modulus: Sx (in ³)	1.625
Radius of Gyration: Rx (in)	2.414
Moment of Inertia: Iy (in ⁴)	0.769
Radius of Gyration: Ry (in)	0.959

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	3.694	3.518
Section Modulus: Sxe (in ³)	1.062	0.99
Allowable Bending Moment: Ma (in-k)	20.99	29.70
Allowable Shear Force: Va (lb)	3791	4775
(check web crippling)		

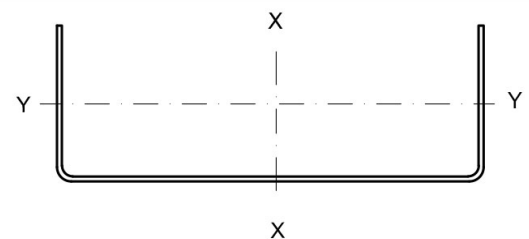
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.418
Torsional Warping Constant: Cw (in ⁶)	4.651
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.877
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.204

PRODUCT ID

600T300-68 (6x3x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data