

Tracks (T)

MATERIAL	
Web (in)	6
Flange (in)	3
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	2.27
Cross Sectional Area: A (in ²)	0.667
Moment of Inertia: Ix (in ⁴)	3.912
Section Modulus: Sx (in ³)	1.304
Radius of Gyration: Rx (in)	2.421
Moment of Inertia: Iy (in ⁴)	0.616
Radius of Gyration: Ry (in)	0.792

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.790	2.586
Section Modulus: Sxe (in ³)	0.783	0.700
Allowable Bending Moment: Ma (in-k)	15.46	20.95
Allowable Shear Force: Va (lb)	2740	2822
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.713
Torsional Warping Constant: Cw (in ⁶)	3.778
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.876
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.210

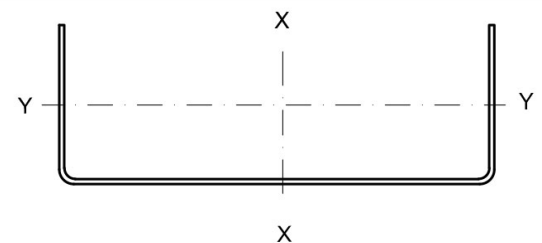


PRODUCT ID

600T300-54 (6x3x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data