

Tracks (T)



MATERIAL	
Web (in)	3½
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)	1.57
Cross Sectional Area: A (in ²)	0.462
Moment of Inertia: Ix (in ⁴)	0.972
Section Modulus: Sx (in ³)	0.518
Radius of Gyration: Rx (in)	1.450
Moment of Inertia: Iy (in ⁴)	0.099
Radius of Gyration: Ry (in)	0.462

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.959	0.921
Section Modulus: Sxe (in ³)	0.460	0.43
Allowable Bending Moment: Ma (in-k)	9.10	12.85
Allowable Shear Force: Va (lb)	2994	4536
(check web crippling)		

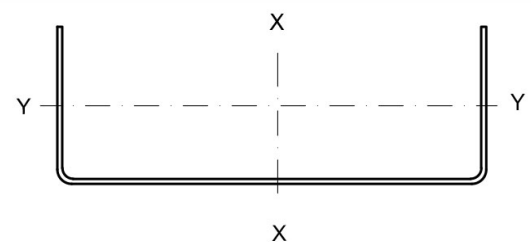
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.783
Torsional Warping Constant: Cw (in ⁶)	0.238
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.847
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.742

PRODUCT ID

350T 150-68 (3½x1½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data