

Tracks (T)



MATERIAL	
Web (in)	8
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)	2.66
Cross Sectional Area: A (in ²)	0.783
Moment of Inertia: Ix (in ⁴)	6.596
Section Modulus: Sx (in ³)	1.599
Radius of Gyration: Rx (in)	2.902
Moment of Inertia: Iy (in ⁴)	0.119
Radius of Gyration: Ry (in)	0.390

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	6.531	6.364
Section Modulus: Sxe (in ³)	1.414	1.257
Allowable Bending Moment: Ma (in-k)	27.94	37.63
Allowable Shear Force: Va (lb)	4086	4086
(check web crippling)		

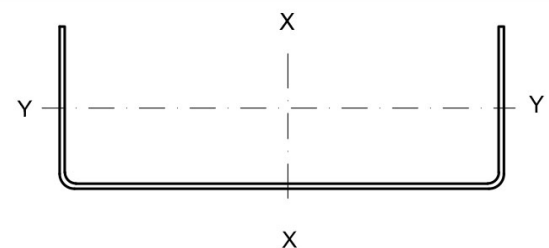
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.327
Torsional Warping Constant: Cw (in ⁶)	1.526
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.575
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.984

PRODUCT ID

800T150-68 (8x1½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data