

Tracks (T)

MATERIAL	
Web (in)	8
Flange (in)	3½
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)	3.57
Cross Sectional Area: A (in ²)	1.051
Moment of Inertia: Ix (in ⁴)	10.587
Section Modulus: Sx (in ³)	2.647
Radius of Gyration: Rx (in)	3.175
Moment of Inertia: Iy (in ⁴)	1.279
Radius of Gyration: Ry (in)	1.104

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	7.835	7.226
Section Modulus: Sxe (in ³)	1.681	1.489
Allowable Bending Moment: Ma (in-k)	33.22	44.59
Allowable Shear Force: Va (lb)	4,220	4,220
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.780
Torsional Warping Constant: Cw (in ⁶)	13.953
Shear Center to Centroid on Principal X-axis: Xo (in)	-2.084
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.954

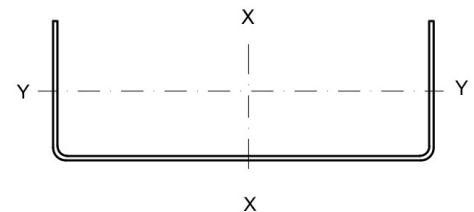


PRODUCT ID

800T350-68 (6x3½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data