

Tracks (T)

MATERIAL	
Web (in)	8
Flange (in)	3½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	2.85
Cross Sectional Area: A (in ²)	0.837
Moment of Inertia: Ix (in ⁴)	8.476
Section Modulus: Sx (in ³)	2.119
Radius of Gyration: Rx (in)	3.182
Moment of Inertia: Iy (in ⁴)	1.023
Radius of Gyration: Ry (in)	1.106

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	5.621	1.907
Section Modulus: Sxe (in ³)	1.141	0.931
Allowable Bending Moment: Ma (in-k)	22.55	22.55
Allowable Shear Force: Va (lb)	2,091	2,091
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.894
Torsional Warping Constant: Cw (in ⁶)	11.231
Shear Center to Centroid on Principal X-axis: Xo (in)	-2.084
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.961

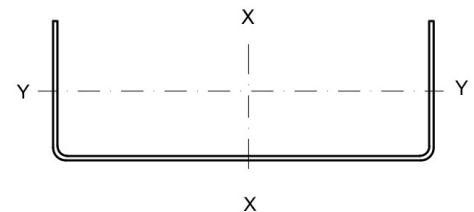


PRODUCT ID

800T350-54 (8x3½x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data