

Tracks (T)



MATERIAL	
Web (in)	8
Flange (in)	2
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)	2.31
Cross Sectional Area: A (in ²)	0.679
Moment of Inertia: Ix (in ⁴)	6.154
Section Modulus: Sx (in ³)	1.501
Radius of Gyration: Rx (in)	3.012
Moment of Inertia: Iy (in ⁴)	0.218
Radius of Gyration: Ry (in)	0.567

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	5.508	5.152
Section Modulus: Sxe (in ³)	1.010	0.873
Allowable Bending Moment: Ma (in-k)	19.96	26.12
Allowable Shear Force: Va (lb)	2039	2039
(check web crippling)		

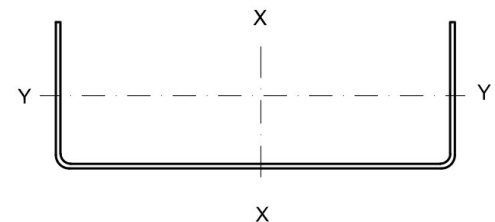
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.725
Torsional Warping Constant: Cw (in ⁶)	2.664
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.908
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.196

PRODUCT ID

800T200-54 (8x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data