

Tracks (T)



MATERIAL	
Web (in)	4
Flange (in)	2
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)	1.94
Cross Sectional Area: A (in ²)	0.569
Moment of Inertia: Ix (in ⁴)	1.617
Section Modulus: Sx (in ³)	0.761
Radius of Gyration: Rx (in)	1.685
Moment of Inertia: Iy (in ⁴)	0.227
Radius of Gyration: Ry (in)	0.632

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.488	1.415
Section Modulus: Sxe (in ³)	0.593	0.550
Allowable Bending Moment: Ma (in-k)	11.72	16.47
Allowable Shear Force: Va (lb)	3435	5205
(check web crippling)		

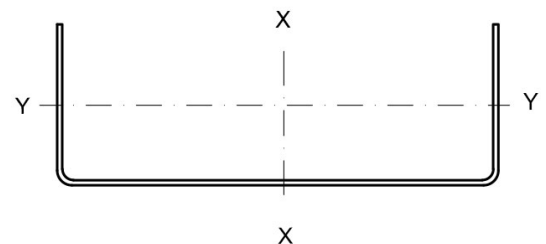
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.9647
Torsional Warping Constant: Cw (in ⁶)	0.702
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.209
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.168

PRODUCT ID

400T200-68 (4x2x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data