

Tracks (T)

MATERIAL	
Web (in)	8
Flange (in)	2
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	2.91
Cross Sectional Area: A (in ²)	0.854
Moment of Inertia: Ix (in ⁴)	7.789
Section Modulus: Sx (in ³)	1.888
Radius of Gyration: Rx (in)	3.019
Moment of Inertia: Iy (in ⁴)	0.272
Radius of Gyration: Ry (in)	0.564

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	7.311	7.056
Section Modulus: Sxe (in ³)	1.492	1.31
Allowable Bending Moment: Ma (in-k)	29.49	39.28
Allowable Shear Force: Va (lb)	4086	4086
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.448
Torsional Warping Constant: Cw (in ⁶)	3.357
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.902
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.201

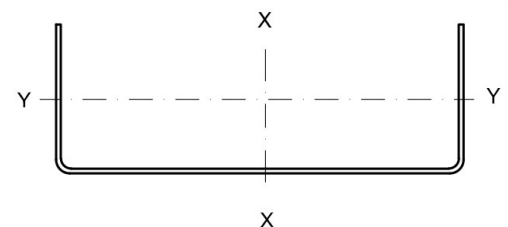


PRODUCT ID

800T200-68 (8x2x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data