

Tracks (T)

MATERIAL	
Web (in)	8
Flange (in)	2
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.1017
Minimum Thickness (mil)	97
Gauge	12
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	4.14
Cross Sectional Area: A (in ²)	1.218
Moment of Inertia: Ix (in ⁴)	11.215
Section Modulus: Sx (in ³)	2.684
Radius of Gyration: Rx (in)	3.034
Moment of Inertia: Iy (in ⁴)	0.379
Radius of Gyration: Ry (in)	0.558

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	11.187	10.84
Section Modulus: Sxe (in ³)	2.495	2.35
Allowable Bending Moment: Ma (in-k)	49.30	70.41
Allowable Shear Force: Va (lb)	8846	10888
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	4.200
Torsional Warping Constant: Cw (in ⁶)	4.792
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.889
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.211

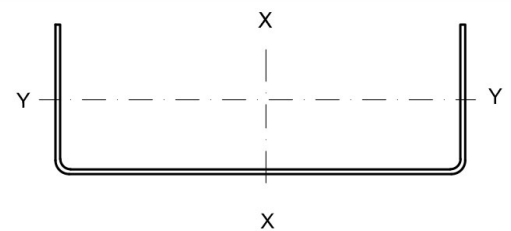


PRODUCTID

800T200-97 (8x2x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data