

Tracks (T)

MATERIAL	
Web (in)	4
Flange (in)	2
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.1017
Minimum Thickness (mil)	97
Gauge	12
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	2.76
Cross Sectional Area: A (in ²)	0.811
Moment of Inertia: Ix (in ⁴)	2.364
Section Modulus: Sx (in ³)	1.085
Radius of Gyration: Rx (in)	1.707
Moment of Inertia: Iy (in ⁴)	0.318
Radius of Gyration: Ry (in)	0.626

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.365	2.275
Section Modulus: Sxe (in ³)	0.985	0.915
Allowable Bending Moment: Ma (in-k)	19.47	27.41
Allowable Shear Force: Va (lb)	4842	7337
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	2.7973
Torsional Warping Constant: Cw (in ⁶)	1.022
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.192
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.174

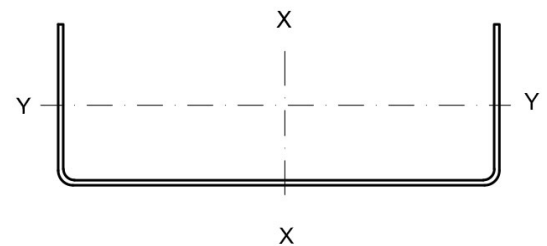


PRODUCT ID

400T200-97 (4x2x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data