

Tracks (T)

MATERIAL	
Web (in)	6
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)	3.45
Cross Sectional Area: A (in ²)	1.015
Moment of Inertia: Ix (in ⁴)	5.774
Section Modulus: Sx (in ³)	1.817
Radius of Gyration: Rx (in)	2.285
Moment of Inertia: Iy (in ⁴)	0.355
Radius of Gyration: Ry (in)	0.591

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	5.766	5.567
Section Modulus: Sxe (in ³)	1.672	1.57
Allowable Bending Moment: Ma (in-k)	33.03	33.03
Allowable Shear Force: Va (lb)	7359	7359
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	3.499
Torsional Warping Constant: Cw (in ⁶)	2.510
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.016
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.659

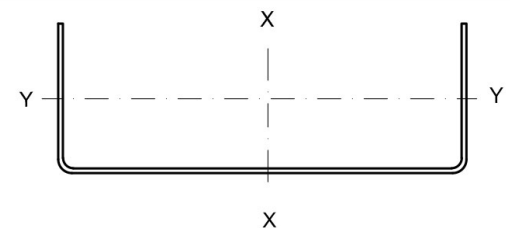


PRODUCT ID

600T200-97 (6x2x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data