

Tracks (T)

MATERIAL	
Web (in)	6
Flange (in)	2½
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)	3.67
Cross Sectional Area: A (in ²)	1.080
Moment of Inertia: Ix (in ⁴)	5.915
Section Modulus: Sx (in ³)	1.972
Radius of Gyration: Rx (in)	2.340
Moment of Inertia: Iy (in ⁴)	0.652
Radius of Gyration: Ry (in)	0.777

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	5.260	5.014
Section Modulus: Sxe (in ³)	1.641	1.53
Allowable Bending Moment: Ma (in-k)	32.42	45.73
Allowable Shear Force: Va (lb)	6911	10472
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	3.724
Torsional Warping Constant: Cw (in ⁶)	3.877
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.459
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.865

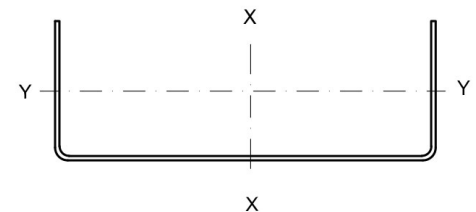


PRODUCT ID

600T250-97 (6x2½x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data