

Tracks (T)

MATERIAL	
Web (in)	6
Flange (in)	2½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	2.60
Cross Sectional Area: A (in ²)	0.765
Moment of Inertia: Ix (in ⁴)	4.249
Section Modulus: Sx (in ³)	1.416
Radius of Gyration: Rx (in)	2.356
Moment of Inertia: Iy (in ⁴)	0.466
Radius of Gyration: Ry (in)	0.780

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	3.438	3.283
Section Modulus: Sxe (in ³)	1.204	0.96
Allowable Bending Moment: Ma (in-k)	20.24	28.69
Allowable Shear Force: Va (lb)	4348	5352
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.297
Torsional Warping Constant: Cw (in ⁶)	2.834
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.460
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.880

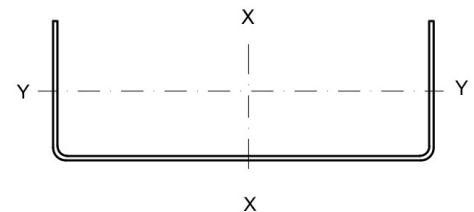


PRODUCT ID

600T250-68 (6x2½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data