

Tracks (T)



MATERIAL	
Web (in)	6
Flange (in)	2½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0451
Minimum Thickness (mil)	43
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.66
Cross Sectional Area: A (in ²)	0.488
Moment of Inertia: Ix (in ⁴)	2.742
Section Modulus: Sx (in ³)	0.914
Radius of Gyration: Rx (in)	2.370
Moment of Inertia: Iy (in ⁴)	0.300
Radius of Gyration: Ry (in)	0.784

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.955	1.703
Section Modulus: Sxe (in ³)	0.550	0.45
Allowable Bending Moment: Ma (in-k)	10.87	13.33
Allowable Shear Force: Va (lb)	1415	1415
(check web crippling)		

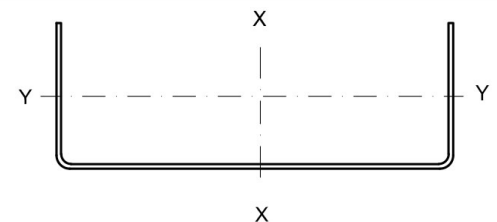
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.331
Torsional Warping Constant: Cw (in ⁶)	1.854
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.461
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.892

PRODUCT ID

600T250-43 (6x2½x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data