

Tracks (T)

MATERIAL	
Web (in)	6
Flange (in)	1½
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)	1.38
Cross Sectional Area: A (in ²)	0.405
Moment of Inertia: Ix (in ⁴)	2.073
Section Modulus: Sx (in ³)	0.673
Radius of Gyration: Rx (in)	2.261
Moment of Inertia: Iy (in ⁴)	0.073
Radius of Gyration: Ry (in)	0.424

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.891	1.53
Section Modulus: Sxe (in ³)	0.474	0.45
Allowable Bending Moment: Ma (in-k)	9.37	13.56
Allowable Shear Force: Va (lb)	1377	1415
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.275
Torsional Warping Constant: Cw (in ⁶)	0.504
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.680
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.399

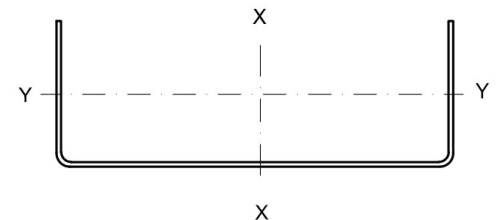


PRODUCT ID

600T150-43 (6x1½x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data