

Tracks (T)

MATERIAL	
Web (in)	6
Flange (in)	1½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.1017
Minimum Thickness (mil)	97
Gauge	12
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	3.11
Cross Sectional Area: A (in ²)	0.913
Moment of Inertia: Ix (in ⁴)	4.780
Section Modulus: Sx (in ³)	1.504
Radius of Gyration: Rx (in)	2.288
Moment of Inertia: Iy (in ⁴)	0.156
Radius of Gyration: Ry (in)	0.414

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	4.780	4.780
Section Modulus: Sxe (in ³)	1.504	1.45
Allowable Bending Moment: Ma (in-k)	31.69	43.33
Allowable Shear Force: Va (lb)	7359	10888
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	3.148
Torsional Warping Constant: Cw (in ⁶)	1.138
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.656
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.416

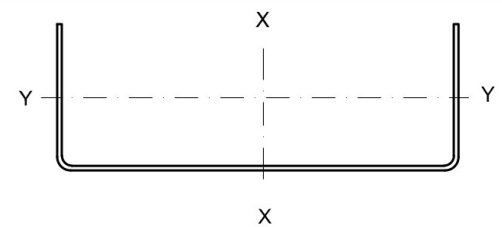


PRODUCT ID

600T150-97 (6x1½x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data