

Tracks (T)

MATERIAL	
Web (in)	6
Flange (in)	1¼
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)	2.93
Cross Sectional Area: A (in ²)	0.862
Moment of Inertia: Ix (in ⁴)	4.282
Section Modulus: Sx (in ³)	1.348
Radius of Gyration: Rx (in)	2.229
Moment of Inertia: Iy (in ⁴)	0.092
Radius of Gyration: Ry (in)	0.327

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	4.282	4.282
Section Modulus: Sxe (in ³)	1.348	1.348
Allowable Bending Moment: Ma (in-k)	30.44	44.43
Allowable Shear Force: Va (lb)	7359	10888
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	2.973
Torsional Warping Constant: Cw (in ⁶)	0.685
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.491
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.305

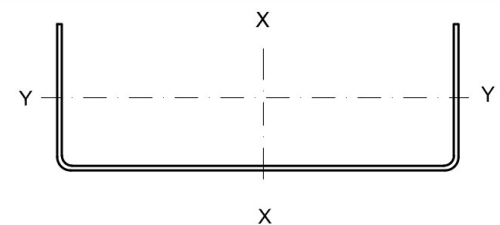


PRODUCT ID

600T125-97 (6x1¼x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data