

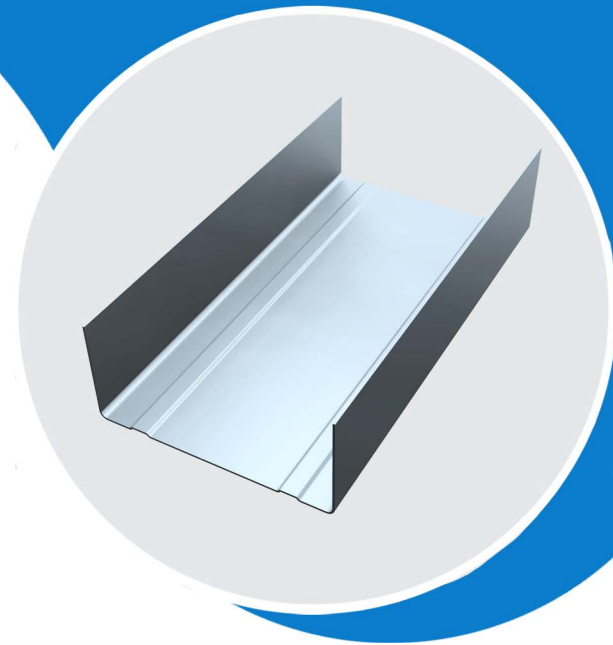
Tracks (T)

MATERIAL	
Web (in)	14
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)	5.70
Cross Sectional Area: A (in ²)	1.676
Moment of Inertia: Ix (in ⁴)	36.043
Section Modulus: Sx (in ³)	5.021
Radius of Gyration: Rx (in)	4.638
Moment of Inertia: Iy (in ⁴)	0.104
Radius of Gyration: Ry (in)	0.249

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	35.773	34.586
Section Modulus: Sxe (in ³)	4.481	4.135
Allowable Bending Moment: Ma (in-k)	88.55	123.8
Allowable Shear Force: Va (lb)	6759	6759
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	5.7776
Torsional Warping Constant: Cw (in ⁶)	4.444
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.289
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.653

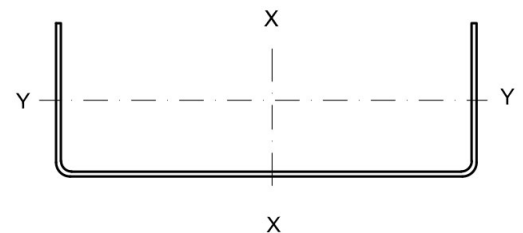


PRODUCTID

1400T125-97 (14x1¼x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data