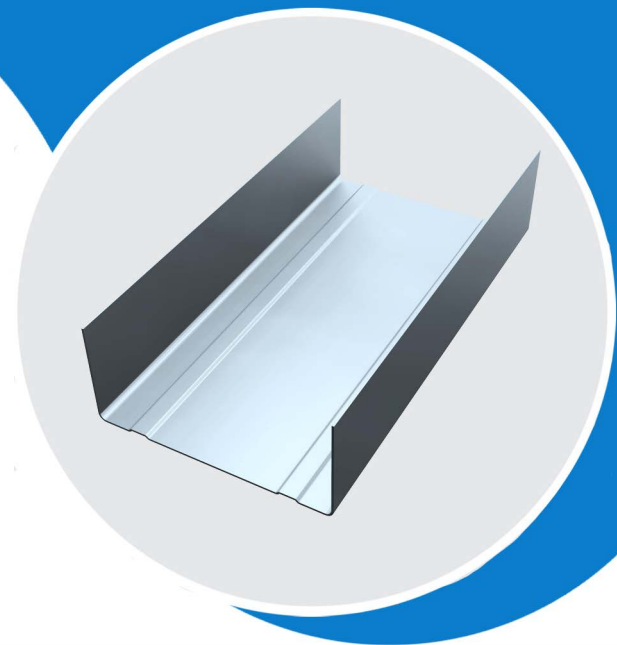


Tracks (T)



MATERIAL	
Web (in)	14
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)	5.87
Cross Sectional Area: A (in ²)	1.727
Moment of Inertia: Ix (in ⁴)	38.626
Section Modulus: Sx (in ³)	5.381
Radius of Gyration: Rx (in)	4.730
Moment of Inertia: Iy (in ⁴)	0.180
Radius of Gyration: Ry (in)	0.323

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	38.338	34.153
Section Modulus: Sxe (in ³)	4.835	4.336
Allowable Bending Moment: Ma (in-k)	95.54	129.8
Allowable Shear Force: Va (lb)	6759	6759
(check web crippling)		

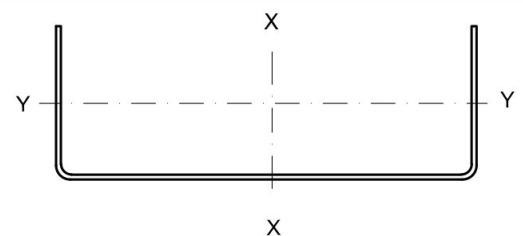
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	5.9529
Torsional Warping Constant: Cw (in ⁶)	7.503
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.399
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.757

PRODUCT ID

1400T150-97 (14x1½x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data