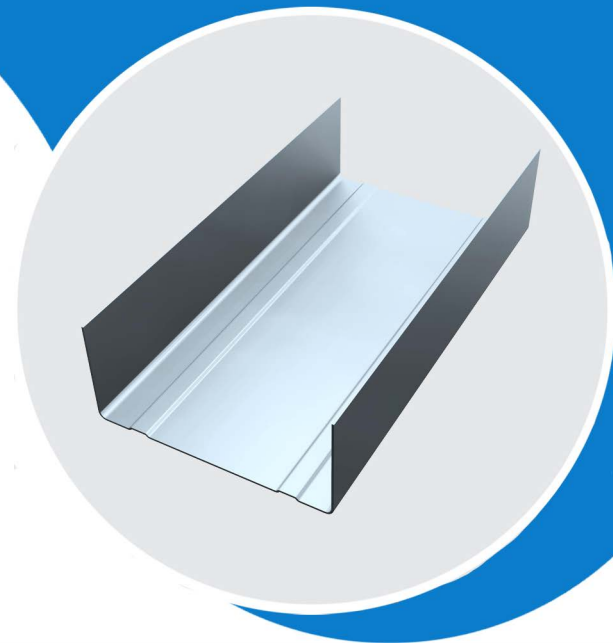


Tracks (T)



MATERIAL	
Web (in)	14
Flange (in)	3
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.1017
Minimum Thickness (mil)	97
Gauge	12
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	6.78
Cross Sectional Area: A (in ²)	1.996
Moment of Inertia: Ix (in ⁴)	50.257
Section Modulus: Sx (in ³)	7.265
Radius of Gyration: Rx (in)	5.048
Moment of Inertia: Iy (in ⁴)	1.348
Radius of Gyration: Ry (in)	0.822

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	42.176	38.627
Section Modulus: Sxe (in ³)	5.385	4.685
Allowable Bending Moment: Ma (in-k)	106.40	140.27
Allowable Shear Force: Va (lb)	7822	9394
(check web crippling)		

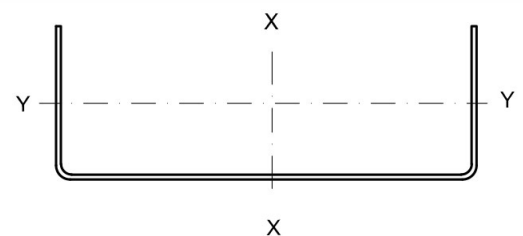
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	6.880
Torsional Warping Constant: Cw (in ⁶)	47.963
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.283
Radius of Gyration on the Centroid Principal axis: Ro (in)	5.273

PRODUCT ID

1400T300-97 (14x3x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data