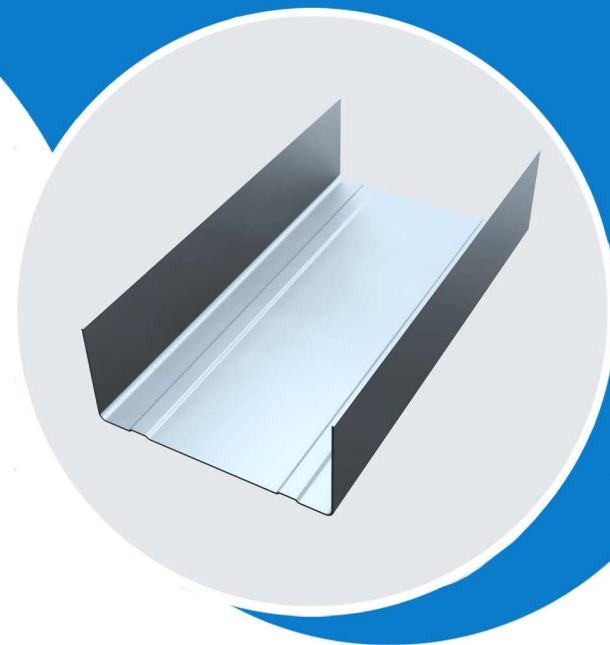


Tracks (T)



MATERIAL	
Web (in)	10
Flange (in)	3
Yield Strength Fy (KSI)	33
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)	5.40
Cross Sectional Area: A (in ²)	1.589
Moment of Inertia: Ix (in ⁴)	22.474
Section Modulus: Sx (in ³)	4.495
Radius of Gyration: Rx (in)	3.761
Moment of Inertia: Iy (in ⁴)	12.474
Radius of Gyration: Ry (in)	3.761

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	19.434	18.671
Section Modulus: Sxe (in ³)	3.688	3.405
Allowable Bending Moment: Ma (in-k)	70.29	102
Allowable Shear Force: Va (lb)	7874	9717
(check web crippling)		

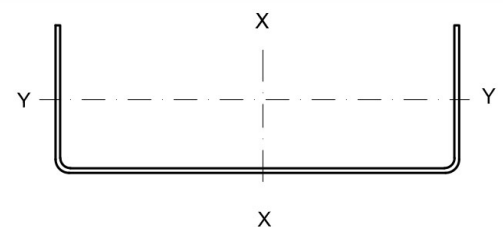
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	5.477
Torsional Warping Constant: Cw (in ⁶)	21.627
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.520
Radius of Gyration on the Centroid Principal axis: Ro (in)	0.866

PRODUCT ID

1000T300-97 (10x3x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data