

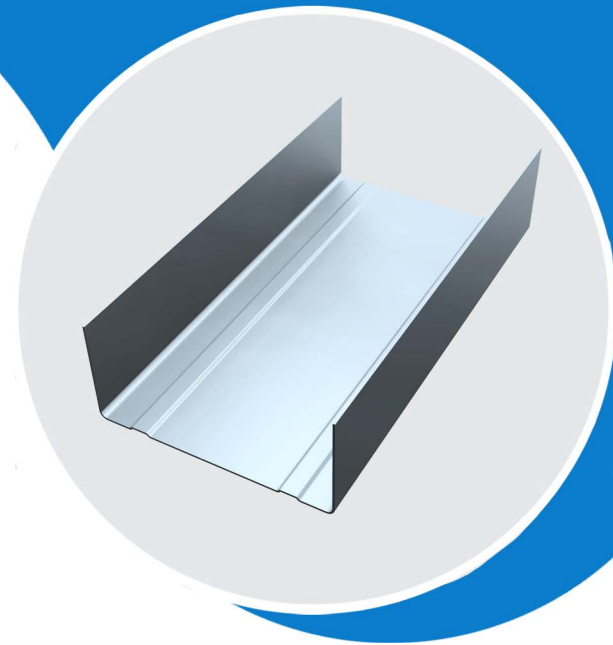
Tracks (T)

MATERIAL	
Web (in)	12
Flange (in)	3
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)	6.69
Cross Sectional Area: A (in ²)	1.792
Moment of Inertia: Ix (in ⁴)	34.873
Section Modulus: Sx (in ³)	5.812
Radius of Gyration: Rx (in)	4.411
Moment of Inertia: Iy (in ⁴)	1.303
Radius of Gyration: Ry (in)	0.853

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	30.515	29.436
Section Modulus: Sxe (in ³)	4.762	4.522
Allowable Bending Moment: Ma (in-k)	94.69	135.38
Allowable Shear Force: Va (lb)	7898	9584
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	6.179
Torsional Warping Constant: Cw (in ⁶)	33.335
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.390
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.703

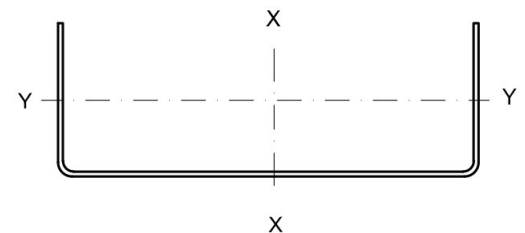


PRODUCT ID

1200T300-97 (12x3x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data