

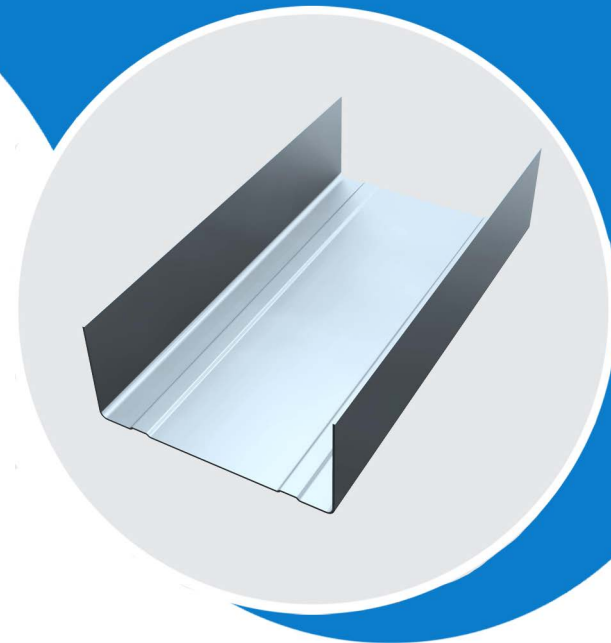
Tracks (T)

MATERIAL	
Web (in)	6
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)	4.02
Cross Sectional Area: A (in ²)	1.182
Moment of Inertia: Ix (in ⁴)	6.80
Section Modulus: Sx (in ³)	2.267
Radius of Gyration: Rx (in)	2.399
Moment of Inertia: Iy (in ⁴)	1.077
Radius of Gyration: Ry (in)	0.957

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	5.695	5.407
Section Modulus: Sxe (in ³)	1.717	1.590
Allowable Bending Moment: Ma (in-k)	33.93	47.62
Allowable Shear Force: Va (lb)	6554	9045
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	4.075
Torsional Warping Constant: Cw (in ⁶)	6.387
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.877
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.192

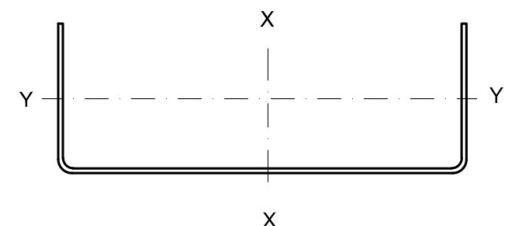


PRODUCT ID

600T300-97 (6x3x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data