

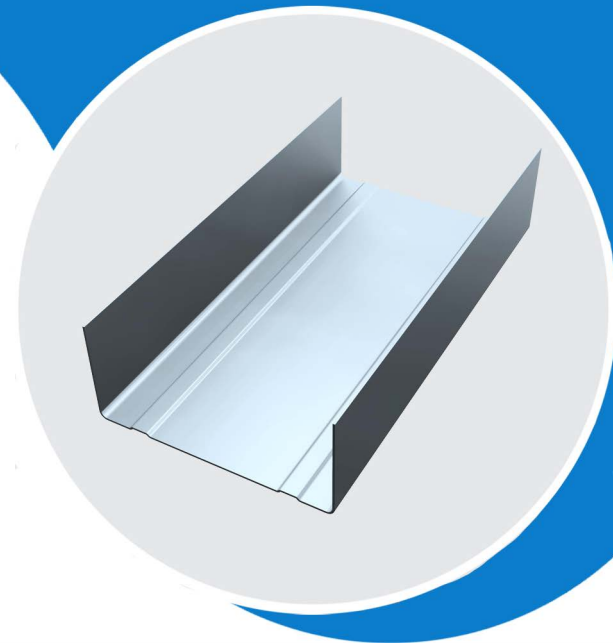
Tracks (T)

MATERIAL	
Web (in)	12
Flange (in)	3
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	4.30
Cross Sectional Area: A (in ²)	1.265
Moment of Inertia: Ix (in ⁴)	24.811
Section Modulus: Sx (in ³)	4.135
Radius of Gyration: Rx (in)	4.430
Moment of Inertia: Iy (in ⁴)	0.928
Radius of Gyration: Ry (in)	0.857

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	18.904	16.51
Section Modulus: Sxe (in ³)	2.738	2.221
Allowable Bending Moment: Ma (in-k)	54.11	66.49
Allowable Shear Force: Va (lb)	3751	4461
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	2.143
Torsional Warping Constant: Cw (in ⁶)	23.985
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.393
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.722

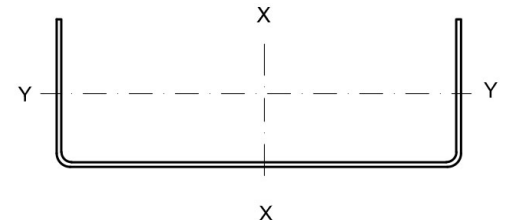


PRODUCT ID

1200T300-68 (12x3x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data