

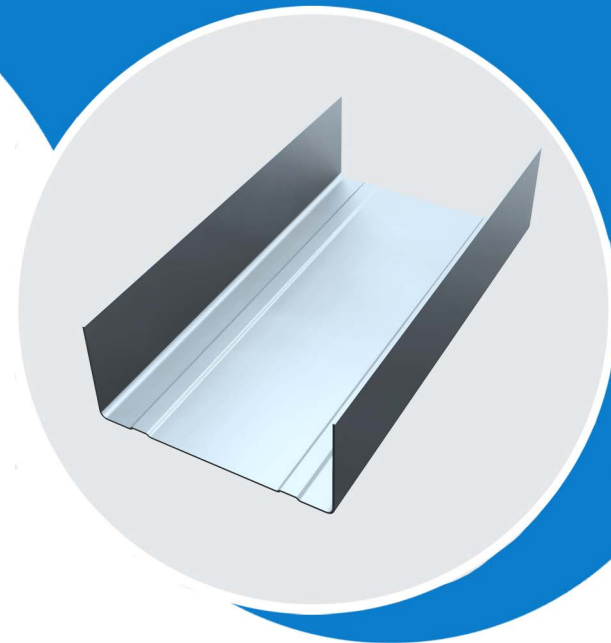
Tracks (T)

MATERIAL	
Web (in)	14
Flange (in)	3
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	3.81
Cross Sectional Area: A (in ²)	1.120
Moment of Inertia: Ix (in ⁴)	28.868
Section Modulus: Sx (in ³)	4.124
Radius of Gyration: Rx (in)	5.077
Moment of Inertia: Iy (in ⁴)	0.767
Radius of Gyration: Ry (in)	0.828

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	17.509	15.515
Section Modulus: Sxe (in ³)	1.907	1.613
Allowable Bending Moment: Ma (in-k)	37.69	48.23
Allowable Shear Force: Va (lb)	1837	2159
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.196
Torsional Warping Constant: Cw (in ⁶)	27.660
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.288
Radius of Gyration on the Centroid Principal axis: Ro (in)	5.303

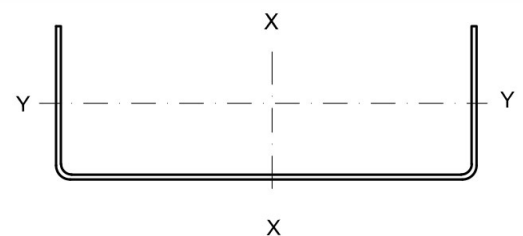


PRODUCT ID

1400T300-54 (14x3x16ga)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S 100-16



See Hermes/Hephaistos Technical Manual
for complete design data