

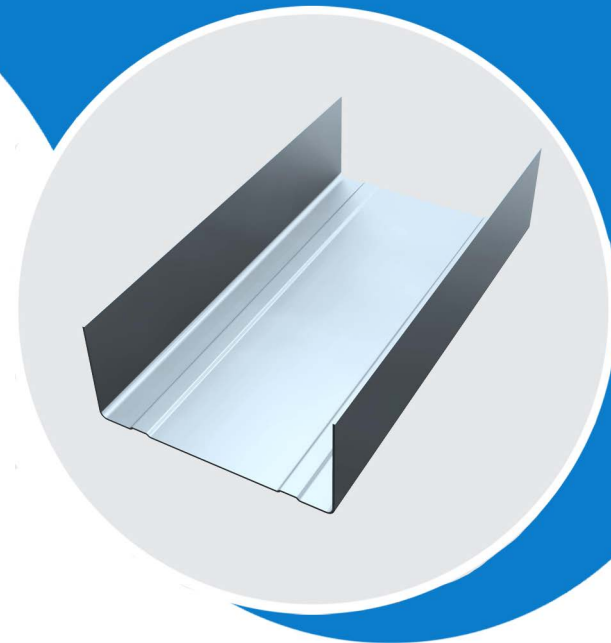
Tracks (T)

MATERIAL	
Web (in)	10
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)	3.04
Cross Sectional Area: A (in ²)	0.894
Moment of Inertia: Ix (in ⁴)	12.815
Section Modulus: Sx (in ³)	2.563
Radius of Gyration: Rx (in)	3.787
Moment of Inertia: Iy (in ⁴)	0.711
Radius of Gyration: Ry (in)	0.892

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	8.713	7.630
Section Modulus: Sxe (in ³)	1.427	1.169
Allowable Bending Moment: Ma (in-k)	28.19	34.99
Allowable Shear Force: Va (lb)	2346	2785
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.954
Torsional Warping Constant: Cw (in ⁶)	12.551
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.523
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.178

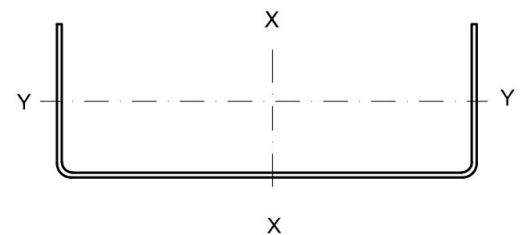


PRODUCT ID

1000T300-54 (10x3x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data