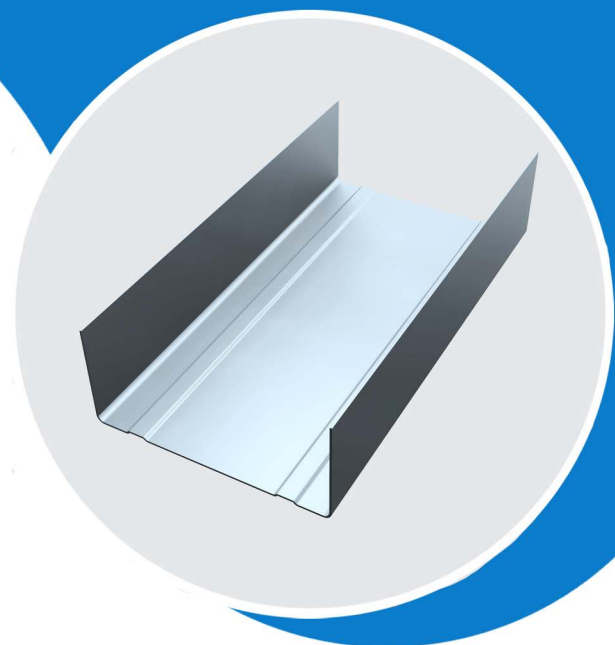


Tracks (T)



MATERIAL	
Web (in)	14
Flange (in)	1½
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)	3.27
Cross Sectional Area: A (in ²)	0.962
Moment of Inertia: Ix (in ⁴)	21.402
Section Modulus: Sx (in ³)	3.015
Radius of Gyration: Rx (in)	4.718
Moment of Inertia: Iy (in ⁴)	0.105
Radius of Gyration: Ry (in)	0.330

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	18.619	17.150
Section Modulus: Sxe (in ³)	1.811	1.548
Allowable Bending Moment: Ma (in-k)	29.88	38.71
Allowable Shear Force: Va (lb)	1160	1160
(check web crippling)		

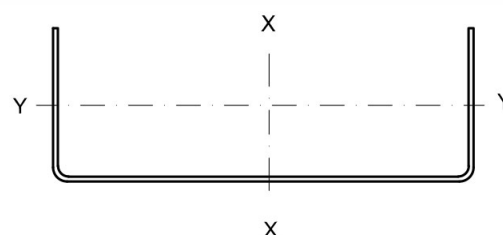
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.0267
Torsional Warping Constant: Cw (in ⁶)	4.280
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.410
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.747

PRODUCT

1400T150-54 (14x1½x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data