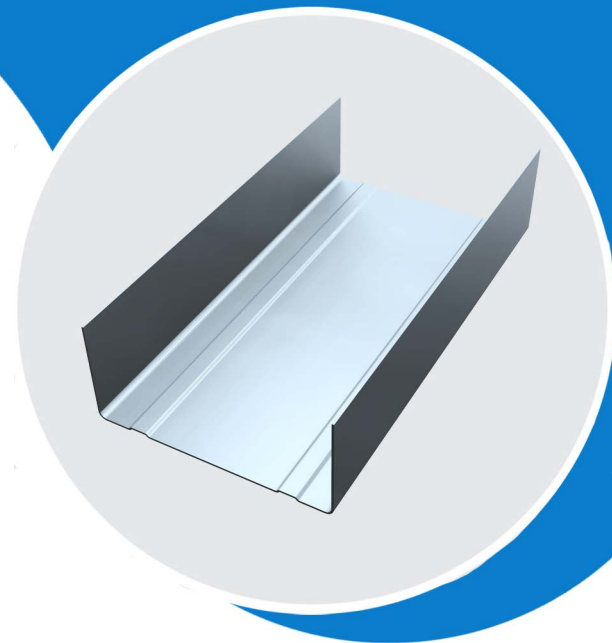


Tracks (T)



MATERIAL	
Web (in)	3½
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)	1.25
Cross Sectional Area: A (in ²)	0.367
Moment of Inertia: Ix (in ⁴)	0.762
Section Modulus: Sx (in ³)	0.412
Radius of Gyration: Rx (in)	1.440
Moment of Inertia: Iy (in ⁴)	0.079
Radius of Gyration: Ry (in)	0.465

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.713	0.680
Section Modulus: Sxe (in ³)	0.333	0.31
Allowable Bending Moment: Ma (in-k)	6.59	9.30
Allowable Shear Force: Va (lb)	2392	3372
(check web crippling)		

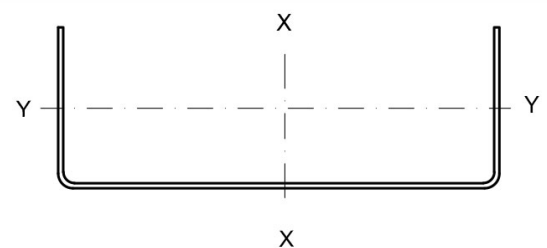
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.392
Torsional Warping Constant: Cw (in ⁶)	0.187
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.855
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.738

PRODUCT ID

350T 150-54 (3½x1½x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data