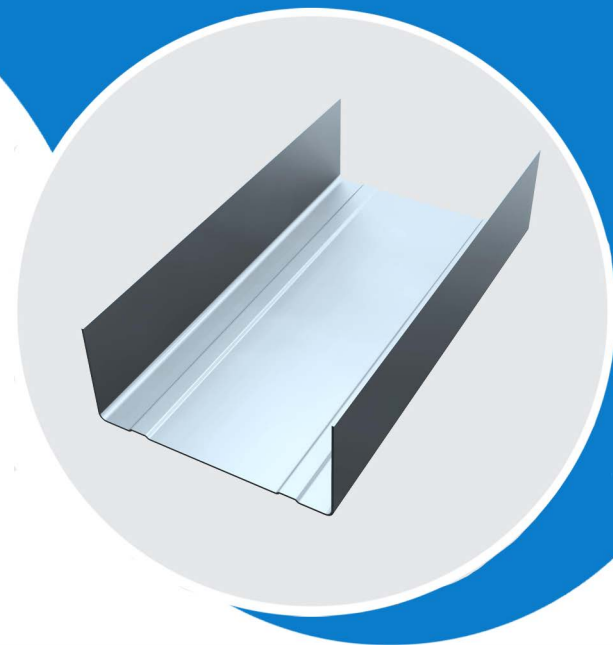


Tracks (T)



MATERIAL	
Web (in)	4
Flange (in)	1½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0451
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.35
Cross Sectional Area: A (in ²)	0.396
Moment of Inertia: Ix (in ⁴)	1.026
Section Modulus: Sx (in ³)	0.489
Radius of Gyration: Rx (in)	1.610
Moment of Inertia: Iy (in ⁴)	0.082
Radius of Gyration: Ry (in)	0.456

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.962	0.920
Section Modulus: Sxe (in ³)	0.400	0.375
Allowable Bending Moment: Ma (in-k)	7.90	11.22
Allowable Shear Force: Va (lb)	2740	3372
(check web crippling)		

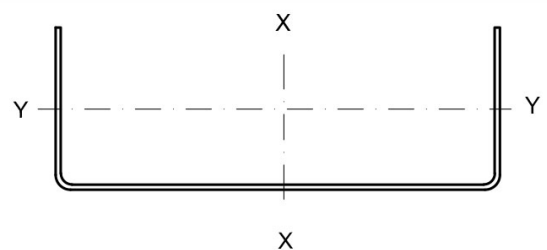
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.4223
Torsional Warping Constant: Cw (in ⁶)	0.252
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.811
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.860

PRODUCT ID

400T150-54 (4x1½x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data