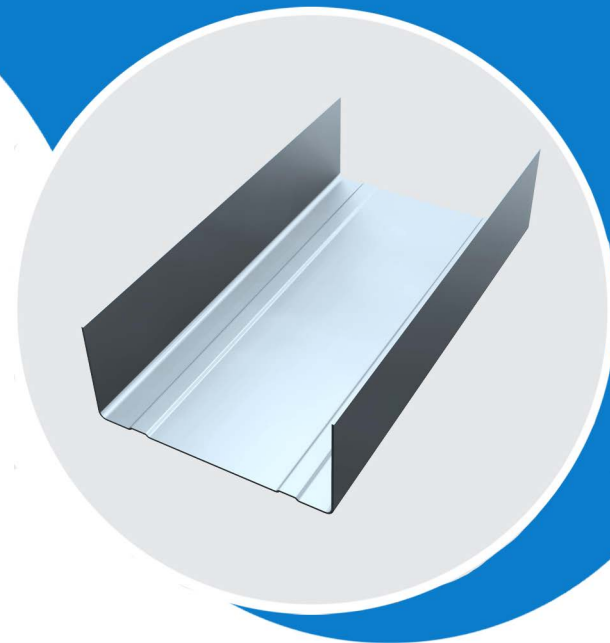


Tracks (T)



MATERIAL	
Web (in)	5½
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)	1.63
Cross Sectional Area: A (in ²)	0.480
Moment of Inertia: Ix (in ⁴)	2.129
Section Modulus: Sx (in ³)	0.747
Radius of Gyration: Rx (in)	2.105
Moment of Inertia: Iy (in ⁴)	0.089
Radius of Gyration: Ry (in)	0.430

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.007	1.930
Section Modulus: Sxe (in ³)	0.629	0.60
Allowable Bending Moment: Ma (in-k)	12.43	17.83
Allowable Shear Force: Va (lb)	2740	2980
(check web crippling)		

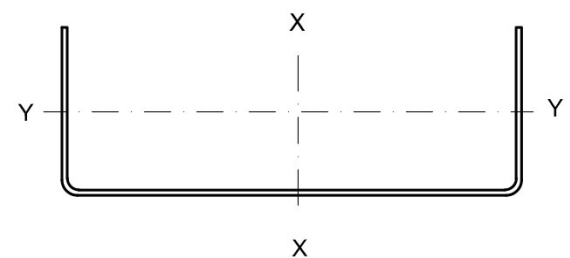
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.5130
Torsional Warping Constant: Cw (in ⁶)	0.519
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.704
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.261

PRODUCT ID

550T150-54 (5½x1½x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data