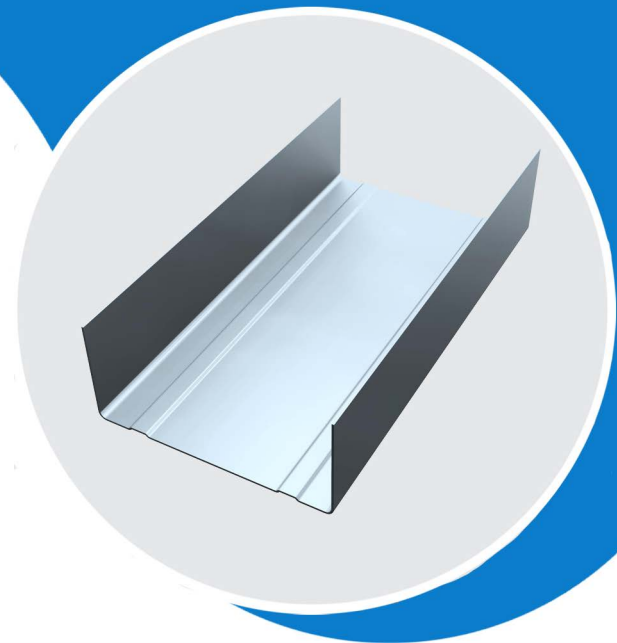


Tracks (T)



MATERIAL	
Web (in)	2½
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)	1.06
Cross Sectional Area: A (in ²)	0.311
Moment of Inertia: Ix (in ⁴)	0.368
Section Modulus: Sx (in ³)	0.273
Radius of Gyration: Rx (in)	1.088
Moment of Inertia: Iy (in ⁴)	0.072
Radius of Gyration: Ry (in)	0.481

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.343	0.325
Section Modulus: Sxe (in ³)	0.214	0.198
Allowable Bending Moment: Ma (in-k)	4.24	5.92
Allowable Shear Force: Va (lb)	1692	2563
(check web crippling)		

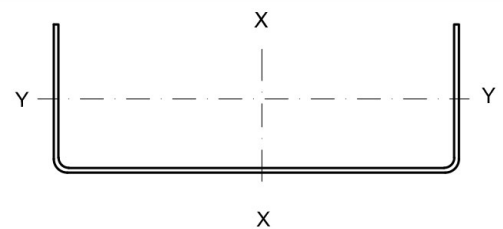
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.332
Torsional Warping Constant: Cw (in ⁶)	0.089
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.961
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.530

PRODUCT ID

250T 150-54 (2½x1½x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data