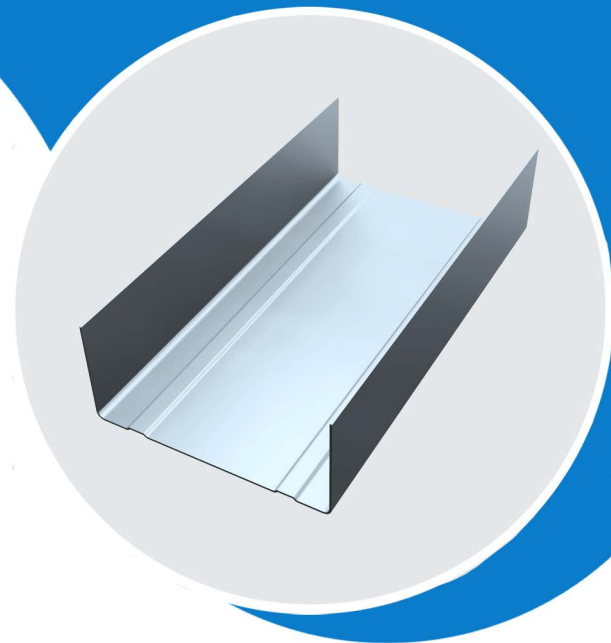


Tracks (T)



MATERIAL	
Web (in)	2½
Flange (in)	2
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)	0.466
Section Modulus: Sx (in ³)	0.346
Radius of Gyration: Rx (in)	1.127
Moment of Inertia: Iy (in ⁴)	0.157
Radius of Gyration: Ry (in)	0.654

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.397	0.373
Section Modulus: Sxe (in ³)	0.229	0.210
Allowable Bending Moment: Ma (in-k)	4.53	6.28
Allowable Shear Force: Va (lb)	1692	2563
(check web crippling)		

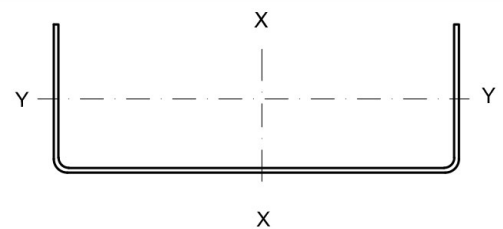
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.392
Torsional Warping Constant: Cw (in ⁶)	0.195
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.405
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.917

PRODUCT ID

250T 150-54 (2½x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data