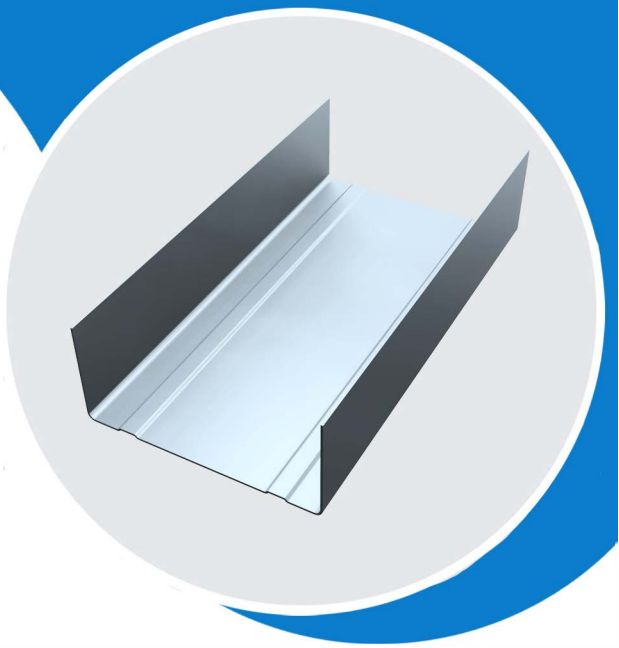
Tracks (T)



MATERIAL	
Web (in)	2½
Flange (in)	1¼
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)	0.96
Cross Sectional Area: A (in^2)	0.282
Moment of Inertia: Ix (in^4)	0.318
Section Modulus: Sx (in^3)	0.236
Radius of Gyration: Rx (in)	1.062
Moment of Inertia: Iy (in^4)	0.043
Radius of Gyration: Ry (in)	0.392

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in^4)	0.311	0.297
Section Modulus: Sxe (in^3) Allowable	0.204	0.189
Bending Moment: Ma (in-k)	4.03	5.66
Allowable Shear Force: Va (lb)	1692	2563
(check web crippling)		

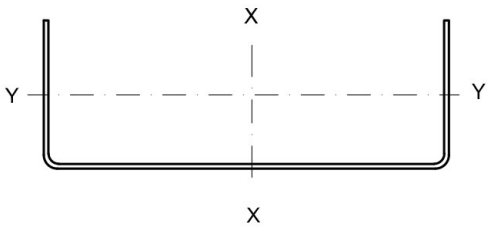
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.301
Torsional Warping Constant: Cw (in^6)	0.054
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.749
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.357

PRODUCT ID

250T 125-54 (2½x1¼x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual for complete design data

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