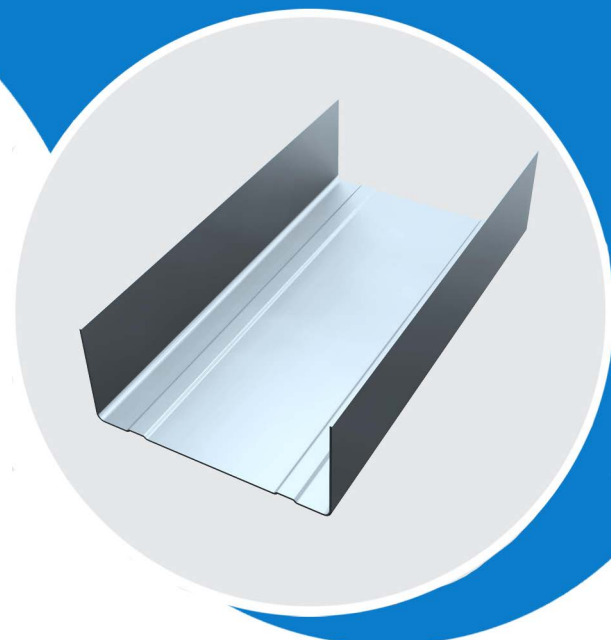


Tracks (T)



MATERIAL	
Web (in)	2½
Flange (in)	1¼
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.21
Cross Sectional Area: A (in ²)	0.355
Moment of Inertia: Ix (in ⁴)	0.409
Section Modulus: Sx (in ³)	0.297
Radius of Gyration: Rx (in)	1.072
Moment of Inertia: Iy (in ⁴)	0.054
Radius of Gyration: Ry (in)	0.389

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.404	0.404
Section Modulus: Sxe (in ³)	0.283	0.263
Allowable Bending Moment: Ma (in-k)	5.58	7.89
Allowable Shear Force: Va (lb)	2112	3199
(check web crippling)		

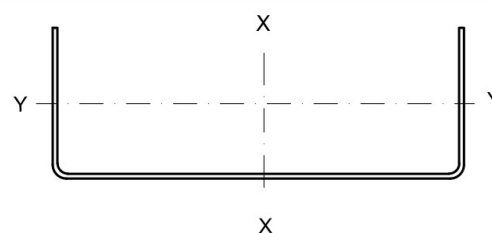
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.602
Torsional Warping Constant: Cw (in ⁶)	0.069
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.740
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.360

PRODUCT ID

250T 125-68 (2½x1¼x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data