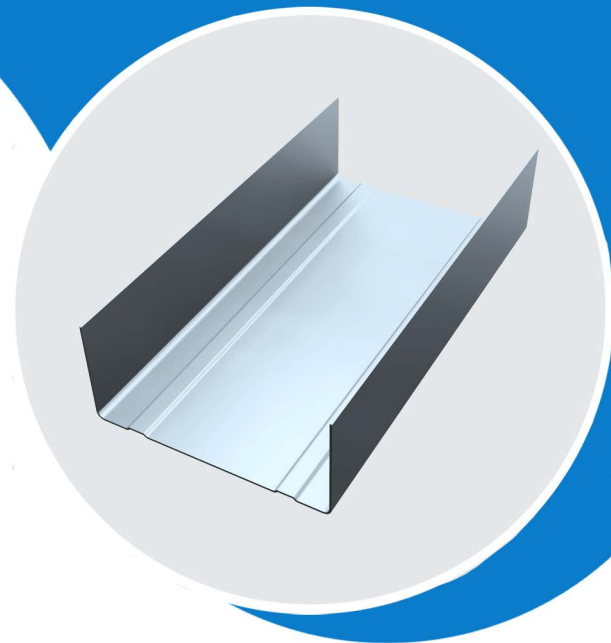


Tracks (T)



MATERIAL	
Web (in)	2½
Flange (in)	1¼
Yield Strength Fy (KSI)	70
Tensile Strength Fu (KSI)	80
Design Thickness (in)	0.0188
Minimum Thickness (mil)	18
Gauge	20Eq
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.312
Cross Sectional Area: A (in ²)	0.092
Moment of Inertia: Ix (in ⁴)	0.093
Section Modulus: Sx (in ³)	0.075
Radius of Gyration: Rx (in)	1.009
Moment of Inertia: Iy (in ⁴)	0.015
Radius of Gyration: Ry (in)	0.402

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.053
Section Modulus: Sxe (in ³)	0.032
Allowable Bending Moment: Ma (in-k)	1.008
Allowable Shear Force: Va (lb)	359
(check web crippling)	

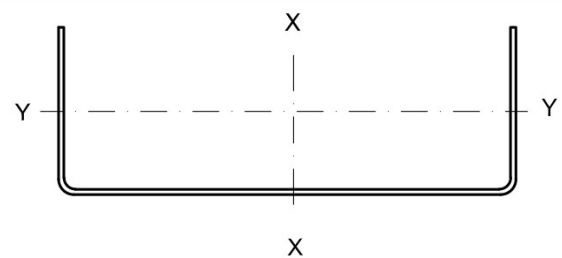
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.011
Torsional Warping Constant: Cw (in ⁶)	0.015
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.791
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.343

PRODUCT ID

250T 125-18 (2½x1¼x20gaEq) Grade 70

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data