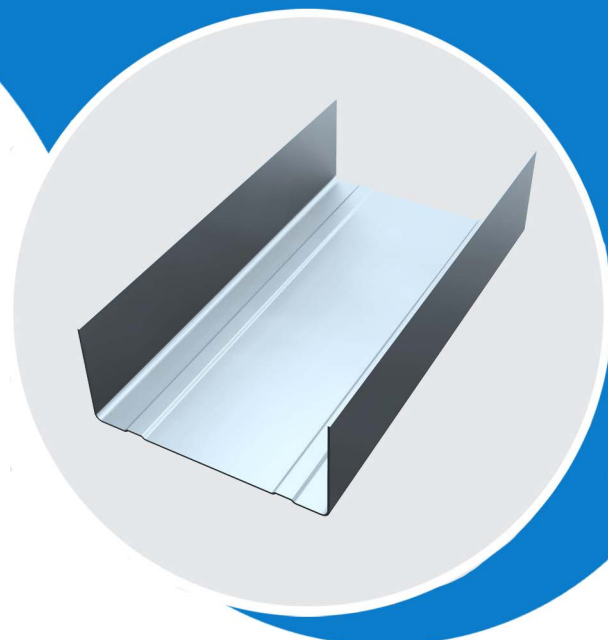


Tracks (T)



MATERIAL	
Web (in)	10
Flange (in)	2½
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)	3.572
Cross Sectional Area: A (in ²)	1.051
Moment of Inertia: Ix (in ⁴)	14.260
Section Modulus: Sx (in ³)	2.852
Radius of Gyration: Rx (in)	3.684
Moment of Inertia: Iy (in ⁴)	0.533
Radius of Gyration: Ry (in)	0.712

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	12.054	12.054
Section Modulus: Sxe (in ³)	2.223	2.223
Allowable Bending Moment: Ma (in-k)	43.92	43.92
Allowable Shear Force: Va (lb)	3345	3345
(check web crippling)		

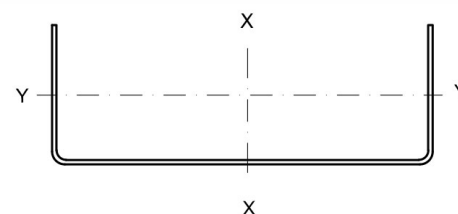
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.780
Torsional Warping Constant: Cw (in ⁶)	9.524
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.160
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.928

PRODUCT ID

1000T250-68 (10x2½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data