

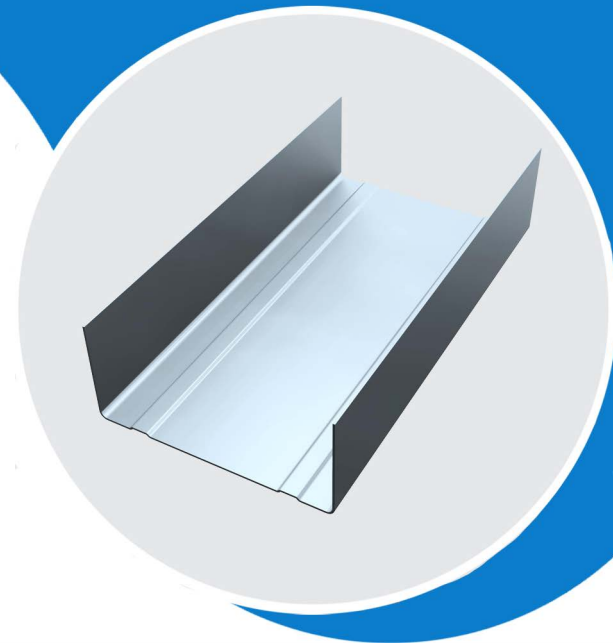
Tracks (T)

MATERIAL	
Web (in)	14
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)	4.00
Cross Sectional Area: A (in ²)	1.175
Moment of Inertia: Ix (in ⁴)	25.208
Section Modulus: Sx (in ³)	3.538
Radius of Gyration: Rx (in)	4.631
Moment of Inertia: Iy (in ⁴)	0.076
Radius of Gyration: Ry (in)	0.254

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	23.549	22.62
Section Modulus: Sxe (in ³)	2.634	2.294
Allowable Bending Moment: Ma (in-k)	52.04	68.69
Allowable Shear Force: Va (lb)	2322	2322
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.9917
Torsional Warping Constant: Cw (in ⁶)	3.189
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.296
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.648

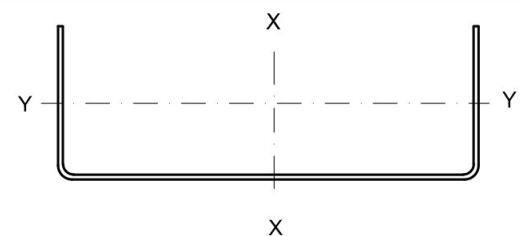


PRODUCTID

1400T125-68 (14x1¼x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data