

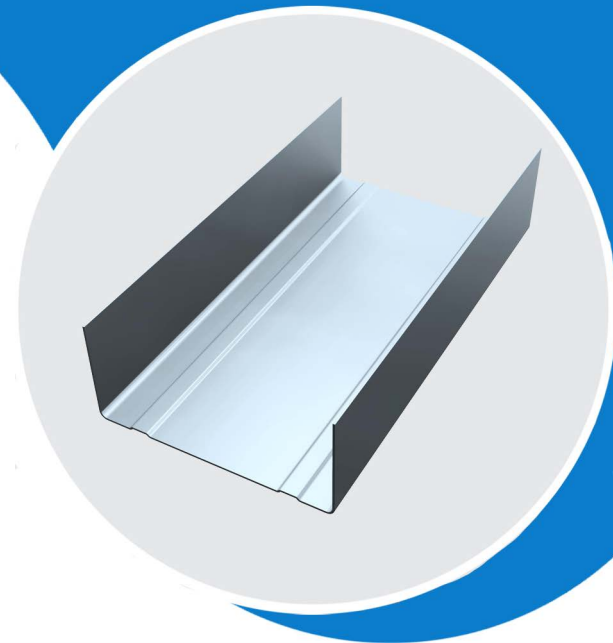
Tracks (T)

MATERIAL	
Web (in)	14
Flange (in)	1¼
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	3.17
Cross Sectional Area: A (in ²)	0.933
Moment of Inertia: Ix (in ⁴)	19.987
Section Modulus: Sx (in ³)	2.815
Radius of Gyration: Rx (in)	4.628
Moment of Inertia: Iy (in ⁴)	0.061
Radius of Gyration: Ry (in)	0.256

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	17.722	16.41
Section Modulus: Sxe (in ³)	1.768	1.518
Allowable Bending Moment: Ma (in-k)	29.17	37.95
Allowable Shear Force: Va (lb)	1160	1160
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.9965
Torsional Warping Constant: Cw (in ⁶)	2.559
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.299
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.645

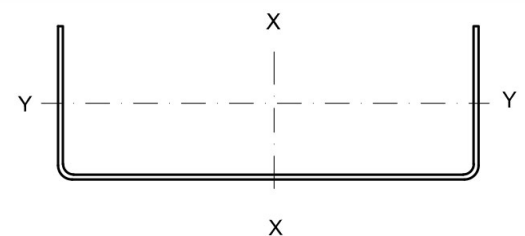


PRODUCT ID

1400T125-54 (14x1¼x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data