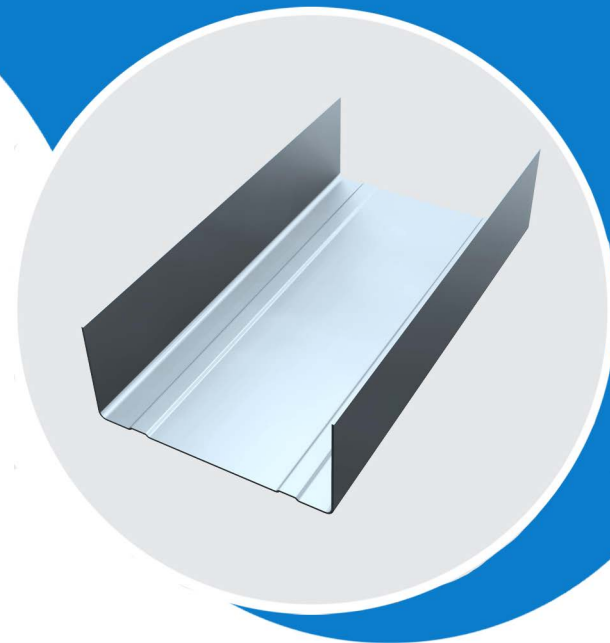


Tracks (T)



MATERIAL	
Web (in)	4
Flange (in)	1¼
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0451
Minimum Thickness (mil)	43
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.00
Cross Sectional Area: A (in ²)	0.293
Moment of Inertia: Ix (in ⁴)	0.716
Section Modulus: Sx (in ³)	0.344
Radius of Gyration: Rx (in)	1.564
Moment of Inertia: Iy (in ⁴)	0.040
Radius of Gyration: Ry (in)	0.369

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.667	0.547
Section Modulus: Sxe (in ³)	0.282	0.251
Allowable Bending Moment: Ma (in-k)	5.58	7.50
Allowable Shear Force: Va (lb)	1740	2141
(check web crippling)		

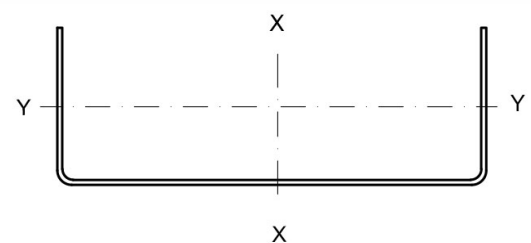
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.1985
Torsional Warping Constant: Cw (in ⁶)	0.122
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.626
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.724

PRODUCT ID

400T125-43 (4x1¼x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data