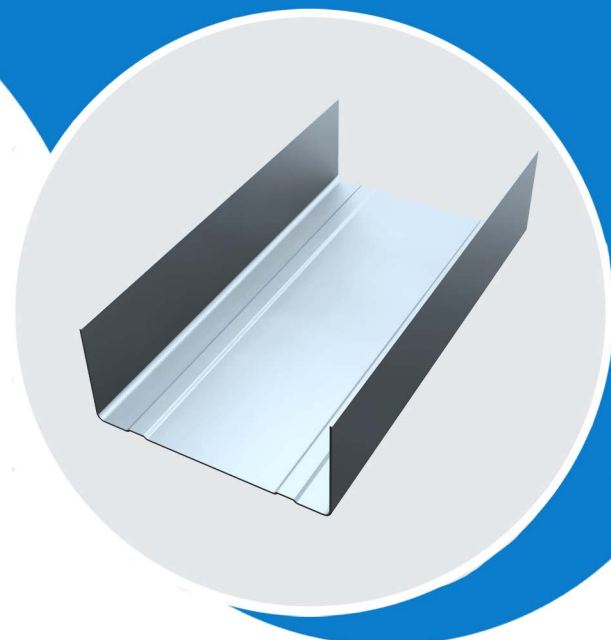


Tracks (T)



MATERIAL	
Web (in)	8
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)	2.02
Cross Sectional Area: A (in ²)	0.594
Moment of Inertia: Ix (in ⁴)	4.747
Section Modulus: Sx (in ³)	1.158
Radius of Gyration: Rx (in)	2.828
Moment of Inertia: Iy (in ⁴)	0.057
Radius of Gyration: Ry (in)	0.309

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	4.669	4.527
Section Modulus: Sxe (in ³)	0.941	0.825
Allowable Bending Moment: Ma (in-k)	18.60	24.69
Allowable Shear Force: Va (lb)	2039	4086
(check web crippling)		

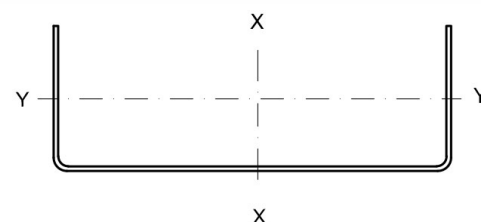
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.634
Torsional Warping Constant: Cw (in ⁶)	0.735
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.432
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.877

PRODUCT ID

800T125-54 (8x1¼x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data