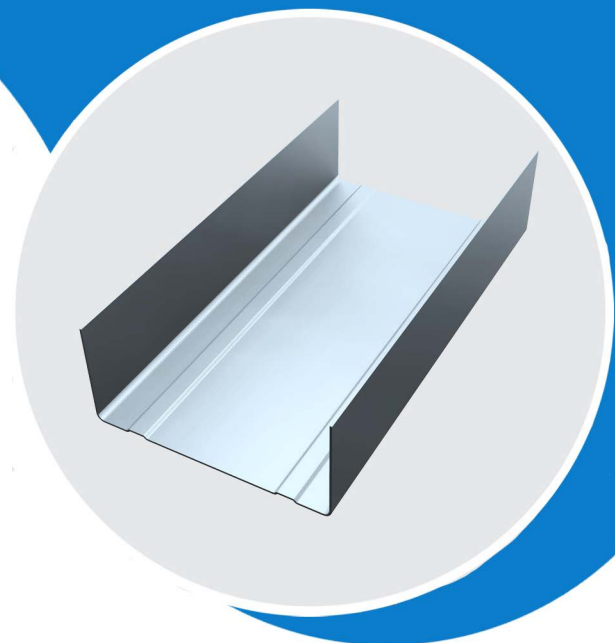


Tracks (T)



MATERIAL	
Web (in)	8
Flange (in)	1¼
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.1017
Minimum Thickness (mil)	97
Gauge	12
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	3.63
Cross Sectional Area: A (in ²)	1.066
Moment of Inertia: Ix (in ⁴)	8.617
Section Modulus: Sx (in ³)	2.062
Radius of Gyration: Rx (in)	2.844
Moment of Inertia: Iy (in ⁴)	0.097
Radius of Gyration: Ry (in)	0.301

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	8.615	8.615
Section Modulus: Sxe (in ³)	2.062	2.062
Allowable Bending Moment: Ma (in-k)	46.58	64.03
Allowable Shear Force: Va (lb)	8846	10888
(check web crippling)		

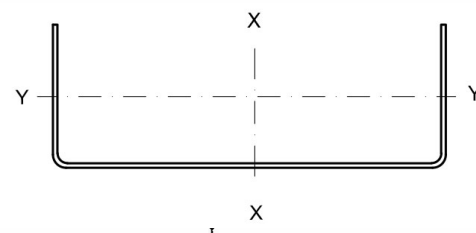
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	3.674
Torsional Warping Constant: Cw (in ⁶)	1.296
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.417
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.890

PRODUCT ID

800T125-97 (8x1¼x12ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data