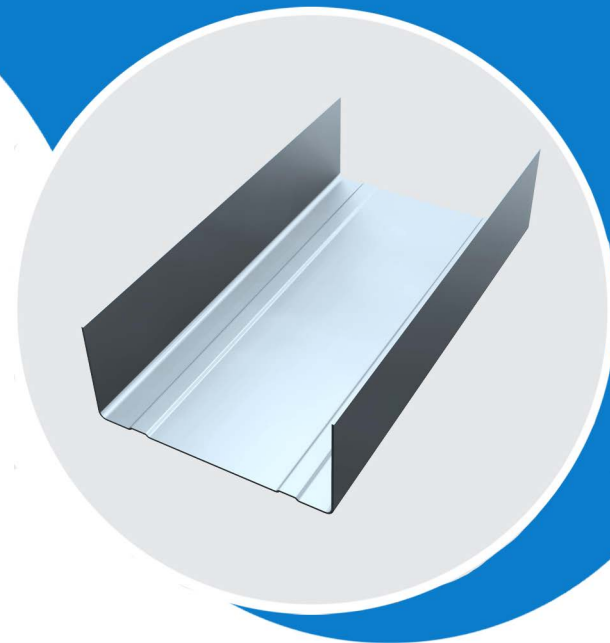


Tracks (T)



MATERIAL	
Web (in)	6
Flange (in)	1¼
Yield Strength F _y (KSI)	33, 50
Tensile Strength F _u (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)	1.30
Cross Sectional Area: A (in ²)	0.383
Moment of Inertia: I _x (in ⁴)	1.862
Section Modulus: S _x (in ³)	0.604
Radius of Gyration: R _x (in)	2.205
Moment of Inertia: I _y (in ⁴)	0.044
Radius of Gyration: R _y (in)	0.337

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: I _{xe} (in ⁴)	1.769	1.361
Section Modulus: S _{xe} (in ³)	0.462	0.391
Allowable Bending Moment: M _a (in-k)	9.12	11.7
Allowable Shear Force: V _a (lb)	1377	1415
(check web crippling)		

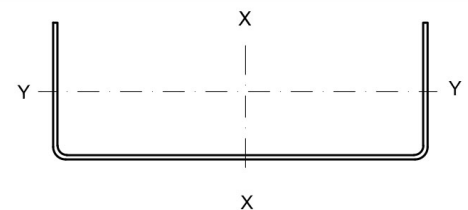
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.260
Torsional Warping Constant: C _w (in ⁶)	0.307
Shear Center to Centroid on Principal X-axis: X _o (in)	-0.513
Radius of Gyration on the Centroid Principal axis: R _o (in)	2.289

PRODUCT ID

600T125-43 (6x1¼x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data