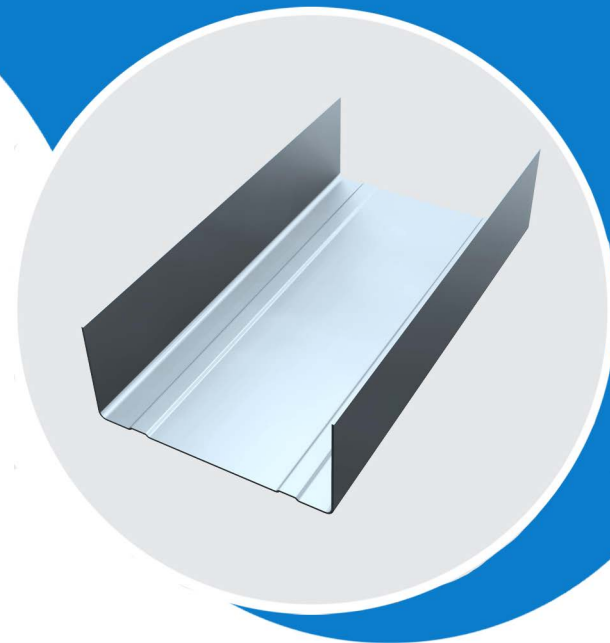


Tracks (T)



MATERIAL	
Web (in)	8
Flange (in)	2½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	3.087
Cross Sectional Area: A (in ²)	0.908
Moment of Inertia: Ix (in ⁴)	8.346
Section Modulus: Sx (in ³)	2.087
Radius of Gyration: Rx (in)	3.032
Moment of Inertia: Iy (in ⁴)	0.505
Radius of Gyration: Ry (in)	0.746

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	6.921	6.655
Section Modulus: Sxe (in ³)	1.575	1.49
Allowable Bending Moment: Ma (in-k)	31.11	44.58
Allowable Shear Force: Va (lb)	4220	4220
(check web crippling)		

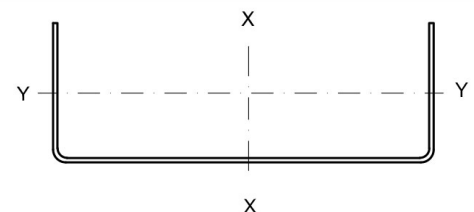
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.539
Torsional Warping Constant: Cw (in ⁶)	5.616
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.291
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.379

PRODUCT ID

800T250-68 (6x2½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data