

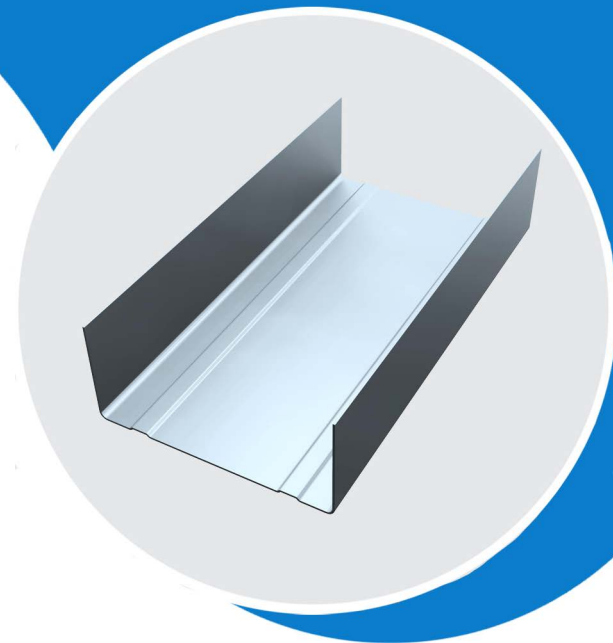
Tracks (T)

MATERIAL	
Web (in)	2½
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)	0.77
Cross Sectional Area: A (in ²)	0.225
Moment of Inertia: Ix (in ⁴)	0.250
Section Modulus: Sx (in ³)	0.188
Radius of Gyration: Rx (in)	1.055
Moment of Inertia: Iy (in ⁴)	0.035
Radius of Gyration: Ry (in)	0.395

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.231	0.176
Section Modulus: Sxe (in ³)	0.148	0.125
Allowable Bending Moment: Ma (in-k)	2.92	3.75
Allowable Shear Force: Va (lb)	1356	1917
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.153
Torsional Warping Constant: Cw (in ⁶)	0.042
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.755
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.356

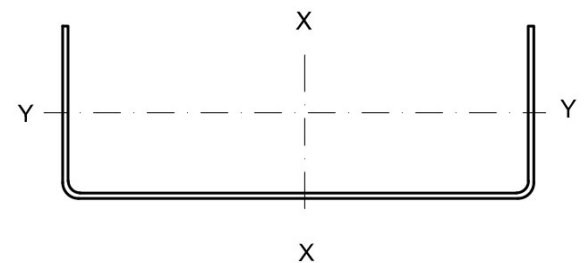


PRODUCT ID

250T 125-43 (2½x1¼x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data