

Tracks (T)

MATERIAL	
Web (in)	5½
Flange (in)	1¼
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)	1.94
Cross Sectional Area: A (in ²)	0.569
Moment of Inertia: Ix (in ⁴)	2.413
Section Modulus: Sx (in ³)	0.839
Radius of Gyration: Rx (in)	2.059
Moment of Inertia: Iy (in ⁴)	0.066
Radius of Gyration: Ry (in)	0.340

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.413	2.382
Section Modulus: Sxe (in ³)	0.808	0.770
Allowable Bending Moment: Ma (in-k)	15.97	23.06
Allowable Shear Force: Va (lb)	4348	5352
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.9647
Torsional Warping Constant: Cw (in ⁶)	0.397
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.526
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.152

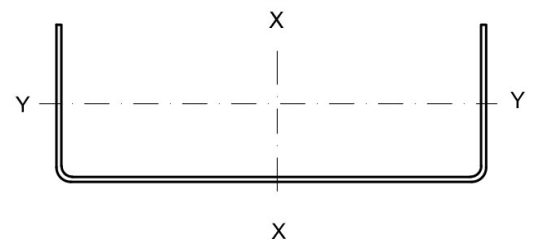


PRODUCT ID

550T125-68 (5½x1¼x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data