

Tracks (T)

MATERIAL	
Web (in)	5½
Flange (in)	1¼
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.54
Cross Sectional Area: A (in ²)	0.452
Moment of Inertia: Ix (in ⁴)	1.904
Section Modulus: Sx (in ³)	0.668
Radius of Gyration: Rx (in)	2.052
Moment of Inertia: Iy (in ⁴)	0.053
Radius of Gyration: Ry (in)	0.342

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.863	1.813
Section Modulus: Sxe (in ³)	0.598	0.535
Allowable Bending Moment: Ma (in-k)	11.82	16.03
Allowable Shear Force: Va (lb)	2740	2980
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.4828
Torsional Warping Constant: Cw (in ⁶)	0.315
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.532
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.147

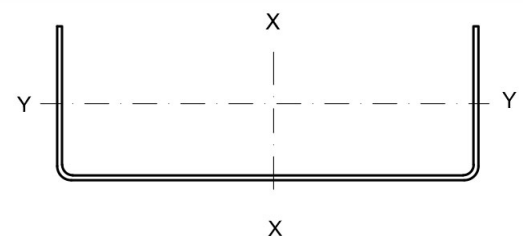


PRODUCT ID

550T125-54 (5½x1¼x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data