

Tracks (T)

MATERIAL	
Web (in)	5½
Flange (in)	1½
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)	2.06
Cross Sectional Area: A (in ²)	0.605
Moment of Inertia: Ix (in ⁴)	2.700
Section Modulus: Sx (in ³)	0.939
Radius of Gyration: Rx (in)	2.113
Moment of Inertia: Iy (in ⁴)	0.111
Radius of Gyration: Ry (in)	0.427

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.663	2.572
Section Modulus: Sxe (in ³)	0.852	0.81
Allowable Bending Moment: Ma (in-k)	16.83	24.12
Allowable Shear Force: Va (lb)	4348	5352
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.0251
Torsional Warping Constant: Cw (in ⁶)	0.655
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.698
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.266

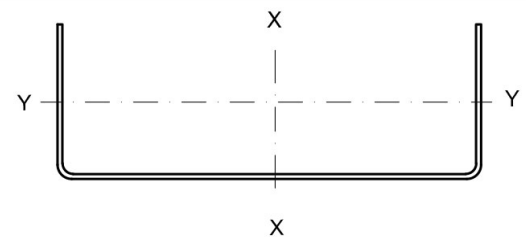


PRODUCT ID

550T150-68 (5½x1½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data