

Tracks (T)

MATERIAL	
Web (in)	2½
Flange (in)	1½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 50
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.33
Cross Sectional Area: A (in ²)	0.391
Moment of Inertia: Ix (in ⁴)	0.472
Section Modulus: Sx (in ³)	0.344
Radius of Gyration: Rx (in)	1.099
Moment of Inertia: Iy (in ⁴)	0.089
Radius of Gyration: Ry (in)	0.478

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.467	0.447
Section Modulus: Sxe (in ³)	0.301	0.278
Allowable Bending Moment: Ma (in-k)	5.95	8.32
Allowable Shear Force: Va (lb)	2112	3199
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.663
Torsional Warping Constant: Cw (in ⁶)	0.114
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.953
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.531

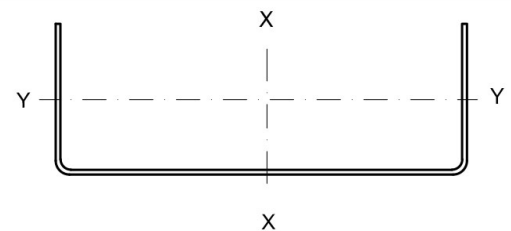


PRODUCT ID

250T 150-68 (2½x1½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data