

Tracks (T)

MATERIAL	
Web (in)	5½
Flange (in)	1½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0451
Minimum Thickness (mil)	43
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.30
Cross Sectional Area: A (in ²)	0.383
Moment of Inertia: Ix (in ⁴)	1.688
Section Modulus: Sx (in ³)	0.596
Radius of Gyration: Rx (in)	2.100
Moment of Inertia: Iy (in ⁴)	0.072
Radius of Gyration: Ry (in)	0.432

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.517	1.278
Section Modulus: Sxe (in ³)	0.469	0.42
Allowable Bending Moment: Ma (in-k)	9.26	12.56
Allowable Shear Force: Va (lb)	1504	1550
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.2596
Torsional Warping Constant: Cw (in ⁶)	0.414
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.709
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.258

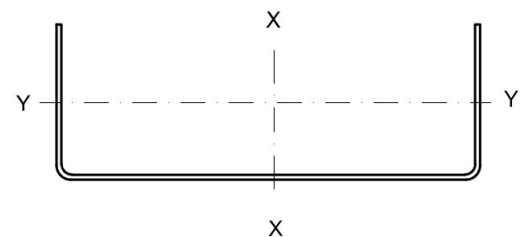


PRODUCT ID

550T150-43 (5½x1½x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data