

Tracks (T)

MATERIAL	
Web (in)	5½
Flange (in)	2
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)	1.83
Cross Sectional Area: A (in ²)	0.537
Moment of Inertia: Ix (in ⁴)	2.579
Section Modulus: Sx (in ³)	0.905
Radius of Gyration: Rx (in)	2.191
Moment of Inertia: Iy (in ⁴)	0.199
Radius of Gyration: Ry (in)	0.609

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.256	2.155
Section Modulus: Sxe (in ³)	0.670	0.63
Allowable Bending Moment: Ma (in-k)	13.23	18.88
Allowable Shear Force: Va (lb)	2740	2980
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.573
Torsional Warping Constant: Cw (in ⁶)	1.133
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.077
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.517

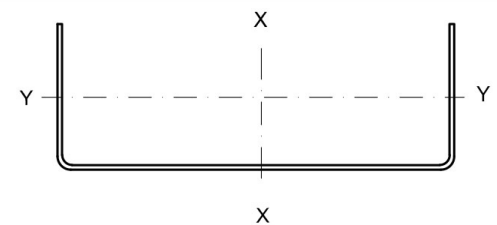


PRODUCT ID

550T200-54 (5½x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data