

Tracks (T)

MATERIAL	
Web (in)	10
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)	2.69
Cross Sectional Area: A (in ²)	0.792
Moment of Inertia: Ix (in ⁴)	10.520
Section Modulus: Sx (in ³)	2.063
Radius of Gyration: Rx (in)	3.645
Moment of Inertia: Iy (in ⁴)	0.228
Radius of Gyration: Ry (in)	0.537

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	9.233	8.563
Section Modulus: Sxe (in ³)	1.297	1.112
Allowable Bending Moment: Ma (in-k)	25.62	33.29
Allowable Shear Force: Va (lb)	1627	1627
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.8454
Torsional Warping Constant: Cw (in ⁶)	4.434
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.809
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.772

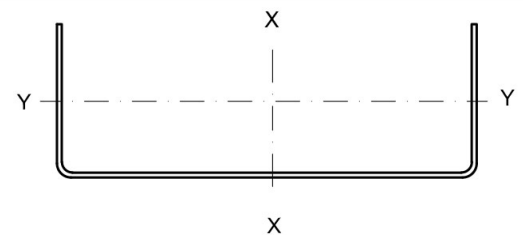


PRODUCT ID

1000T200-54 (10x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data