

Tracks (T)

MATERIAL	
Web (in)	3½
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)	1.44
Cross Sectional Area: A (in ²)	0.424
Moment of Inertia: Ix (in ⁴)	0.949
Section Modulus: Sx (in ³)	0.513
Radius of Gyration: Rx (in)	1.497
Moment of Inertia: Iy (in ⁴)	0.175
Radius of Gyration: Ry (in)	0.642

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.815	0.771
Section Modulus: Sxe (in ³)	0.356	0.330
Allowable Bending Moment: Ma (in-k)	7.03	9.87
Allowable Shear Force: Va (lb)	2392	3372
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.453
Torsional Warping Constant: Cw (in ⁶)	0.409
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.273
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.067

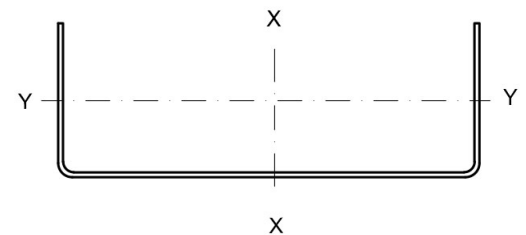


PRODUCT ID

350T 200-54 (3½x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data