

Tracks (T)

MATERIAL	
Web (in)	3 $\frac{5}{8}$
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)	1.47
Cross Sectional Area: A (in ²)	0.431
Moment of Inertia: Ix (in ⁴)	1.024
Section Modulus: Sx (in ³)	0.536
Radius of Gyration: Rx (in)	1.542
Moment of Inertia: Iy (in ⁴)	0.177
Radius of Gyration: Ry (in)	0.640

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.881	0.833
Section Modulus: Sxe (in ³)	0.373	0.35
Allowable Bending Moment: Ma (in-k)	7.37	10.37
Allowable Shear Force: Va (lb)	2480	3372
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.4601
Torsional Warping Constant: Cw (in ⁶)	0.442
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.259
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.091

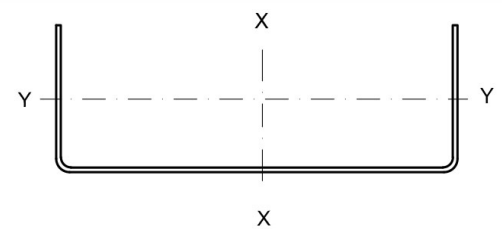


PRODUCT ID

362T200-54 (3 $\frac{5}{8}$ x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data