

Tracks (T)



MATERIAL	
Web (in)	3 $\frac{5}{8}$
Flange (in)	1 $\frac{1}{2}$
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)	1.27
Cross Sectional Area: A (in ²)	0.374
Moment of Inertia: Ix (in ⁴)	0.823
Section Modulus: Sx (in ³)	0.431
Radius of Gyration: Rx (in)	1.483
Moment of Inertia: Iy (in ⁴)	0.080
Radius of Gyration: Ry (in)	0.462

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.771	0.736
Section Modulus: Sxe (in ³)	0.350	0.326
Allowable Bending Moment: Ma (in-k)	6.91	9.77
Allowable Shear Force: Va (lb)	2480	3372
(check web crippling)		

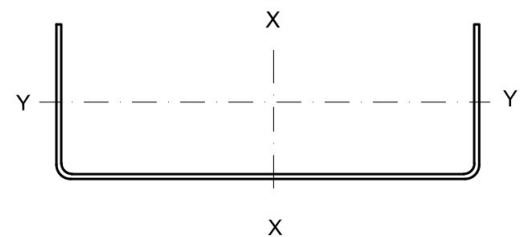
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.3997
Torsional Warping Constant: Cw (in ⁶)	0.202
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.844
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.768

PRODUCT ID

362T 150-54 (3 $\frac{5}{8}$ x1 $\frac{1}{2}$ x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data