

Tracks (T)



MATERIAL	
Web (in)	3½
Flange (in)	1½
Yield Strength Fy (KSI)	33, 45
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0451
Minimum Thickness (mil)	43
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.00
Cross Sectional Area: A (in ²)	0.293
Moment of Inertia: Ix (in ⁴)	0.601
Section Modulus: Sx (in ³)	0.329
Radius of Gyration: Rx (in)	1.433
Moment of Inertia: Iy (in ⁴)	0.064
Radius of Gyration: Ry (in)	0.467

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.531	0.423
Section Modulus: Sxe (in ³)	0.243	0.21
Allowable Bending Moment: Ma (in-k)	4.81	6.37
Allowable Shear Force: Va (lb)	1740	2141
(check web crippling)		

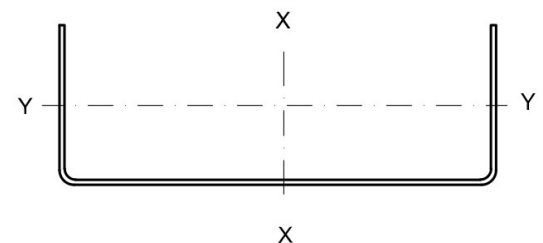
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.198
Torsional Warping Constant: Cw (in ⁶)	0.148
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.861
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.736

PRODUCT ID

350T 150-43 (3½x1½x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data