

Tracks (T)



MATERIAL	
Web (in)	3½
Flange (in)	1¼
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0188
Minimum Thickness (mil)	25
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.38
Cross Sectional Area: A (in ²)	0.113
Moment of Inertia: Ix (in ⁴)	0.220
Section Modulus: Sx (in ³)	0.121
Radius of Gyration: Rx (in)	1.395
Moment of Inertia: Iy (in ⁴)	0.017
Radius of Gyration: Ry (in)	0.382

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.174
Section Modulus: Sxe (in ³)	0.062
Allowable Bending Moment: Ma (in-k)	1.02
Allowable Shear Force: Va (lb)	173
(check web crippling)	

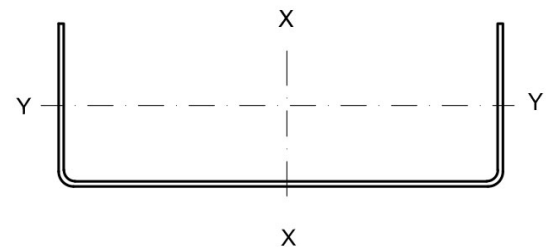
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.013
Torsional Warping Constant: Cw (in ⁶)	0.038
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.675
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.596

PRODUCT ID

350T 125-18 (3½x1¼x25ga) Grade 33

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data