

Tracks (T)

MATERIAL	
Web (in)	3½
Flange (in)	1¼
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0283
Minimum Thickness (mil)	22
Gauge	27
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.58
Cross Sectional Area: A (in ²)	0.170
Moment of Inertia: Ix (in ⁴)	0.331
Section Modulus: Sx (in ³)	0.182
Radius of Gyration: Rx (in)	1.396
Moment of Inertia: Iy (in ⁴)	0.025
Radius of Gyration: Ry (in)	0.381

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.278
Section Modulus: Sxe (in ³)	0.128
Allowable Bending Moment: Ma (in-k)	2.53
Allowable Shear Force: Va (lb)	590
(check web crippling)	

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.045
Torsional Warping Constant: Cw (in ⁶)	0.057
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.670
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.595

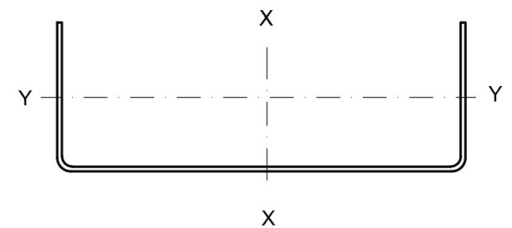


PRODUCT ID

350T 125-27 (3½x1¼x22ga) Grade 33

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data