

Tracks (T)



MATERIAL	
Web (in)	10
Flange (in)	1¼
Yield Strength Fy (KSI)	33, 50
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)	1.92
Cross Sectional Area: A (in ²)	0.563
Moment of Inertia: Ix (in ⁴)	6.633
Section Modulus: Sx (in ³)	1.306
Radius of Gyration: Rx (in)	3.431
Moment of Inertia: Iy (in ⁴)	0.047
Radius of Gyration: Ry (in)	0.290

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	5.886	4.326
Section Modulus: Sxe (in ³)	0.820	0.691
Allowable Bending Moment: Ma (in-k)	13.53	17.27
Allowable Shear Force: Va (lb)	822	699
(check web crippling)		

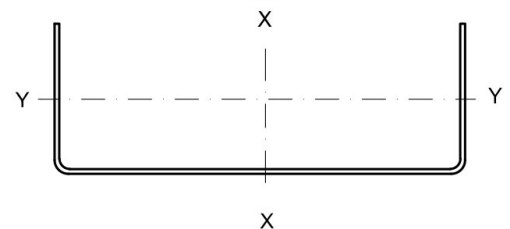
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.382
Torsional Warping Constant: Cw (in ⁶)	0.973
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.379
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.465

PRODUCT

1000T125-43 (10x1¼x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data