

Tracks (T)

MATERIAL	
Web (in)	4
Flange (in)	1¼
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)	1.25
Cross Sectional Area: A (in ²)	0.367
Moment of Inertia: Ix (in ⁴)	0.904
Section Modulus: Sx (in ³)	0.431
Radius of Gyration: Rx (in)	1.569
Moment of Inertia: Iy (in ⁴)	0.049
Radius of Gyration: Ry (in)	0.366

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.884	0.851
Section Modulus: Sxe (in ³)	0.382	0.359
Allowable Bending Moment: Ma (in-k)	7.54	10.76
Allowable Shear Force: Va (lb)	2740	3372
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.3921
Torsional Warping Constant: Cw (in ⁶)	0.154
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.621
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.727

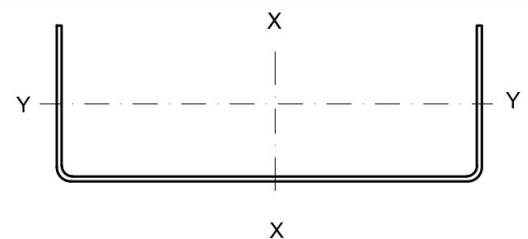


PRODUCT ID

400T125-54 (4x1¼x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data