

Tracks (T)

MATERIAL	
Web (in)	4
Flange (in)	1¼
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0346
Minimum Thickness (mil)	33
Gauge	20S
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.76
Cross Sectional Area: A (in ²)	0.225
Moment of Inertia: Ix (in ⁴)	0.549
Section Modulus: Sx (in ³)	0.265
Radius of Gyration: Rx (in)	1.563
Moment of Inertia: Iy (in ⁴)	0.031
Radius of Gyration: Ry (in)	0.371

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.484
Section Modulus: Sxe (in ³)	0.201
Allowable Bending Moment: Ma (in-k)	3.98
Allowable Shear Force: Va (lb)	939
(check web crippling)	

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.0897
Torsional Warping Constant: Cw (in ⁶)	0.095
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.630
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.725

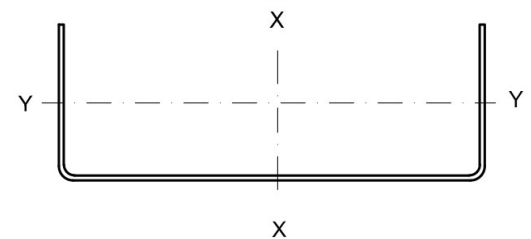


PRODUCT ID

400T125-33 (4x1¼x20Sga) Grade 33

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data