

Tracks (T)

MATERIAL	
Web (in)	2½
Flange (in)	1¼
Yield Strength F _y (KSI)	33
Tensile Strength F _u (KSI)	45
Design Thickness (in)	0.0188
Minimum Thickness (mil)	18
Gauge	25
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.32
Cross Sectional Area: A (in ²)	0.094
Moment of Inertia: I _x (in ⁴)	0.104
Section Modulus: S _x (in ³)	0.079
Radius of Gyration: R _x (in)	1.052
Moment of Inertia: I _y (in ⁴)	0.015
Radius of Gyration: R _y (in)	0.400

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: I _{xe} (in ⁴)	0.078
Section Modulus: S _{xe} (in ³)	0.044
Allowable Bending Moment: M _a (in-k)	0.73
Allowable Shear Force: V _a (lb)	245
(check web crippling)	

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: J _{x1000} (in ⁴)	0.011
Torsional Warping Constant: C _w (in ⁶)	0.018
Shear Center to Centroid on Principal X-axis: X _o (in)	-0.767
Radius of Gyration on the Centroid Principal axis: R _o (in)	1.362

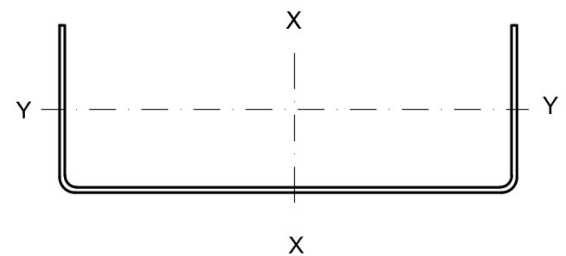


PRODUCT ID

250T 125-18 (2½x1¼x25ga) Grade 33

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data