

Tracks (T)

MATERIAL	
Web (in)	12
Flange (in)	2½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	4.057
Cross Sectional Area: A (in ²)	1.193
Moment of Inertia: Ix (in ⁴)	22.274
Section Modulus: Sx (in ³)	3.712
Radius of Gyration: Rx (in)	4.321
Moment of Inertia: Iy (in ⁴)	2.500
Radius of Gyration: Ry (in)	0.555

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	16.935	15.321
Section Modulus: Sxe (in ³)	2.397	2.06
Allowable Bending Moment: Ma (in-k)	47.37	61.69
Allowable Shear Force: Va (lb)	2770	2770
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	2.022
Torsional Warping Constant: Cw (in ⁶)	14.624
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.054
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.499

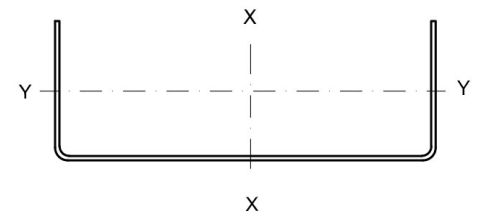


PRODUCT ID

1200T250-68 (12x2½x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data