

Tracks (T)

MATERIAL	
Web (in)	10
Flange (in)	2
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)	2.15
Cross Sectional Area: A (in ²)	0.631
Moment of Inertia: Ix (in ⁴)	8.364
Section Modulus: Sx (in ³)	1.646
Radius of Gyration: Rx (in)	3.641
Moment of Inertia: Iy (in ⁴)	0.183
Radius of Gyration: Ry (in)	0.539

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	6.723	4.784
Section Modulus: Sxe (in ³)	0.861	0.719
Allowable Bending Moment: Ma (in-k)	14.21	17.97
Allowable Shear Force: Va (lb)	822	669
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.4278
Torsional Warping Constant: Cw (in ⁶)	3.540
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.813
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.769

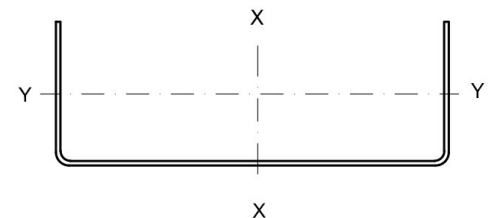


PRODUCT

1000T200-43 (10x2x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data