

Tracks (T)

MATERIAL	
Web (in)	6
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)	1.53
Cross Sectional Area: A (in ²)	0.451
Moment of Inertia: Ix (in ⁴)	2.494
Section Modulus: Sx (in ³)	0.810
Radius of Gyration: Rx (in)	2.353
Moment of Inertia: Iy (in ⁴)	0.163
Radius of Gyration: Ry (in)	0.602

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.077	1.625
Section Modulus: Sxe (in ³)	0.565	0.45
Allowable Bending Moment: Ma (in-k)	11.17	13.43
Allowable Shear Force: Va (lb)	1377	1415
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.305
Torsional Warping Constant: Cw (in ⁶)	1.098
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.044
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.644

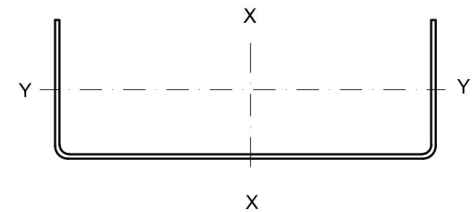


PRODUCT ID

600T200-43 (6x2x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data