

Tracks (T)

MATERIAL	
Web (in)	6
Flange (in)	2
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.92
Cross Sectional Area: A (in ²)	0.565
Moment of Inertia: Ix (in ⁴)	3.146
Section Modulus: Sx (in ³)	1.015
Radius of Gyration: Rx (in)	2.359
Moment of Inertia: Iy (in ⁴)	0.203
Radius of Gyration: Ry (in)	0.600

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.762	2.643
Section Modulus: Sxe (in ³)	0.760	0.72
Allowable Bending Moment: Ma (in-k)	15.02	21.51
Allowable Shear Force: Va (lb)	2728	2728
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.604
Torsional Warping Constant: Cw (in ⁶)	1.381
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.038
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.646

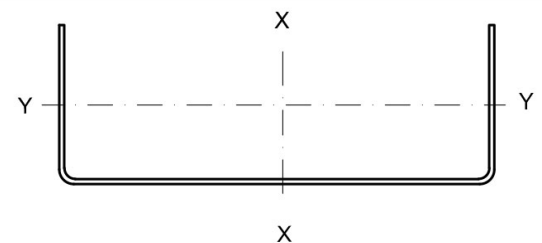


PRODUCT ID

600T200-54 (6x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data