

Tracks (T)

MATERIAL	
Web (in)	4
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)	1.54
Cross Sectional Area: A (in ²)	0.452
Moment of Inertia: Ix (in ⁴)	1.268
Section Modulus: Sx (in ³)	0.604
Radius of Gyration: Rx (in)	1.675
Moment of Inertia: Iy (in ⁴)	0.182
Radius of Gyration: Ry (in)	0.635

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.095	1.038
Section Modulus: Sxe (in ³)	0.427	0.398
Allowable Bending Moment: Ma (in-k)	8.44	11.90
Allowable Shear Force: Va (lb)	2740	3372
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.4828
Torsional Warping Constant: Cw (in ⁶)	0.551
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.217
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.166

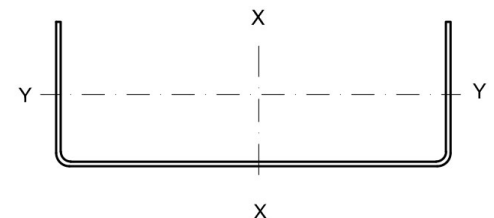


PRODUCT ID

400T200-54 (4x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data