

Tracks (T)

MATERIAL	
Web (in)	5½
Flange (in)	2
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)	2.30
Cross Sectional Area: A (in ²)	0.676
Moment of Inertia: Ix (in ⁴)	3.275
Section Modulus: Sx (in ³)	1.139
Radius of Gyration: Rx (in)	2.201
Moment of Inertia: Iy (in ⁴)	0.248
Radius of Gyration: Ry (in)	0.606

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	3.031	2.898
Section Modulus: Sxe (in ³)	0.916	0.86
Allowable Bending Moment: Ma (in-k)	18.09	25.72
Allowable Shear Force: Va (lb)	4348	5352
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.146
Torsional Warping Constant: Cw (in ⁶)	1.434
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.070
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.521

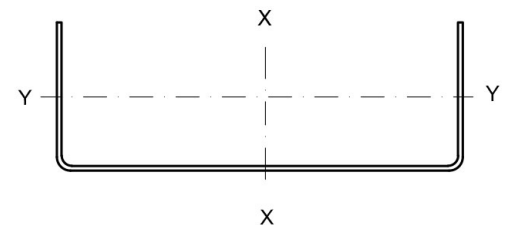


PRODUCT ID

550T200-68 (5½x2x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data