

Tracks (T)

MATERIAL	
Web (in)	5½
Flange (in)	2
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0451
Minimum Thickness (mil)	43
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.46
Cross Sectional Area: A (in ²)	0.428
Moment of Inertia: Ix (in ⁴)	2.044
Section Modulus: Sx (in ³)	0.722
Radius of Gyration: Rx (in)	2.185
Moment of Inertia: Iy (in ⁴)	0.160
Radius of Gyration: Ry (in)	0.611

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.691	1.35
Section Modulus: Sxe (in ³)	0.496	0.41
Allowable Bending Moment: Ma (in-k)	9.80	12.36
Allowable Shear Force: Va (lb)	1504	1550
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.290
Torsional Warping Constant: Cw (in ⁶)	0.900
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.083
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.514

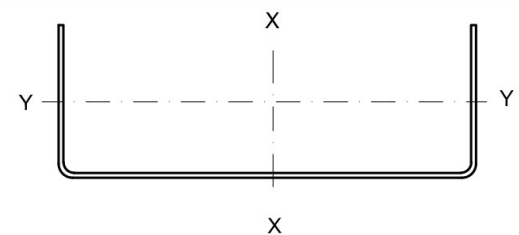


PRODUCT ID

550T200-43 (5½x2x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data