

Tracks (T)

MATERIAL	
Web (in)	3½
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)	1.82
Cross Sectional Area: A (in ²)	0.534
Moment of Inertia: Ix (in ⁴)	1.213
Section Modulus: Sx (in ³)	0.647
Radius of Gyration: Rx (in)	1.508
Moment of Inertia: Iy (in ⁴)	0.218
Radius of Gyration: Ry (in)	0.639

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.114	1.057
Section Modulus: Sxe (in ³)	0.498	0.460
Allowable Bending Moment: Ma (in-k)	9.84	13.76
Allowable Shear Force: Va (lb)	2994	4536
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.904
Torsional Warping Constant: Cw (in ⁶)	0.522
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.264
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.069

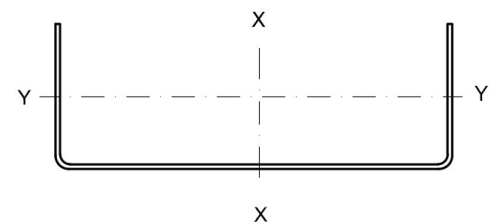


PRODUCT ID

350T 200-68 (3½x2x14ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data