

Tracks (T)

MATERIAL	
Web (in)	3½
Flange (in)	2
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0346
Minimum Thickness (mil)	33
Gauge	20S
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.88
Cross Sectional Area: A (in ²)	0.259
Moment of Inertia: Ix (in ⁴)	0.574
Section Modulus: Sx (in ³)	0.315
Radius of Gyration: Rx (in)	1.488
Moment of Inertia: Iy (in ⁴)	0.108
Radius of Gyration: Ry (in)	0.646

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.429
Section Modulus: Sxe (in ³)	0.181
Allowable Bending Moment: Ma (in-k)	3.58
Allowable Shear Force: Va (lb)	1024
(check web crippling)	

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.103
Torsional Warping Constant: Cw (in ⁶)	0.249
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.285
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.069

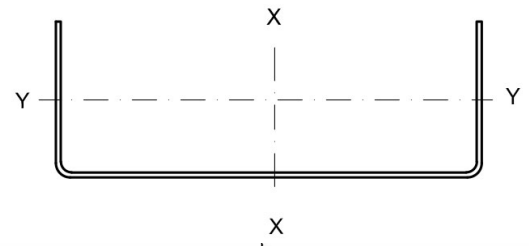


PRODUCT ID

350T 200-33 (3½x2x20Sga) Grade 33

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data