

Tracks (T)

MATERIAL	
Web (in)	3½
Flange (in)	2
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0451
Minimum Thickness (mil)	43
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.15
Cross Sectional Area: A (in ²)	0.338
Moment of Inertia: Ix (in ⁴)	0.749
Section Modulus: Sx (in ³)	0.409
Radius of Gyration: Rx (in)	1.489
Moment of Inertia: Iy (in ⁴)	0.140
Radius of Gyration: Ry (in)	0.645

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.601	0.473
Section Modulus: Sxe (in ³)	0.258	0.23
Allowable Bending Moment: Ma (in-k)	5.10	6.73
Allowable Shear Force: Va (lb)	1740	1899
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.229
Torsional Warping Constant: Cw (in ⁶)	0.323
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.280
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.067

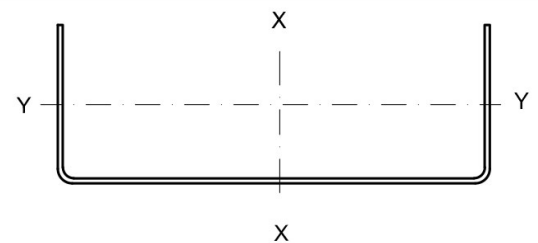


PRODUCT ID

350T 200-43 (3½x2x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data