

Tracks (T)

MATERIAL	
Web (in)	8
Flange (in)	3½
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)	2.27
Cross Sectional Area: A (in ²)	0.669
Moment of Inertia: Ix (in ⁴)	6.796
Section Modulus: Sx (in ³)	1.699
Radius of Gyration: Rx (in)	3.188
Moment of Inertia: Iy (in ⁴)	0.820
Radius of Gyration: Ry (in)	1.107

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	3.842	3.362
Section Modulus: Sxe (in ³)	0.721	0.596
Allowable Bending Moment: Ma (in-k)	11.90	14.91
Allowable Shear Force: Va (lb)	1,051	1,051
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.454
Torsional Warping Constant: Cw (in ⁶)	9.042
Shear Center to Centroid on Principal X-axis: Xo (in)	-2.085
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.966

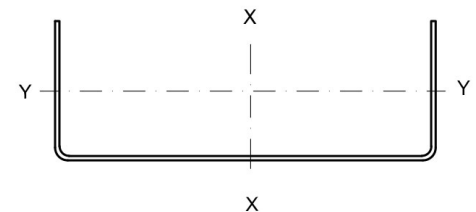


PRODUCT ID

800T350-43 (8x3½x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data