

Tracks (T)

MATERIAL	
Web (in)	8
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)	1.84
Cross Sectional Area: A (in ²)	0.541
Moment of Inertia: Ix (in ⁴)	4.888
Section Modulus: Sx (in ³)	1.198
Radius of Gyration: Rx (in)	3.006
Moment of Inertia: Iy (in ⁴)	0.175
Radius of Gyration: Ry (in)	0.569

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	4.044	2.995
Section Modulus: Sxe (in ³)	0.676	0.59
Allowable Bending Moment: Ma (in-k)	13.37	17.78
Allowable Shear Force: Va (lb)	1030	1767
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.367
Torsional Warping Constant: Cw (in ⁶)	2.124
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.913
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.193

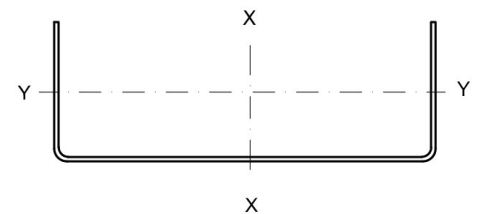


PRODUCT ID

800T200-43 (8x2x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data