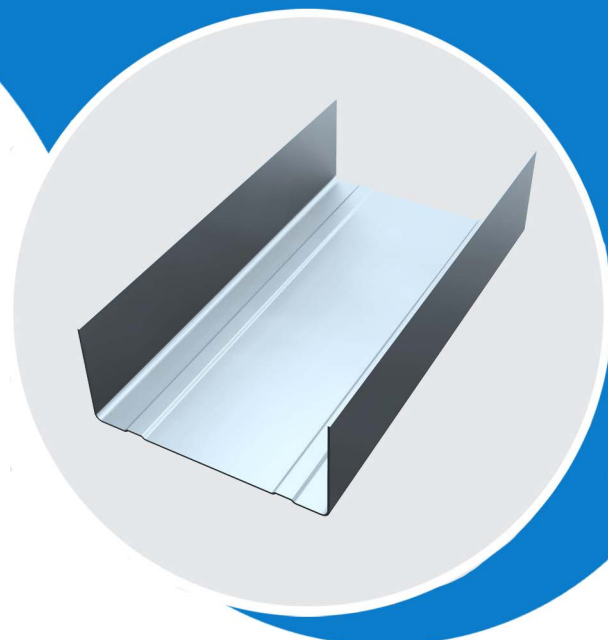


Tracks (T)



MATERIAL	
Web (in)	4
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)	1.23
Cross Sectional Area: A (in ²)	0.360
Moment of Inertia: Ix (in ⁴)	1.002
Section Modulus: Sx (in ³)	0.482
Radius of Gyration: Rx (in)	1.668
Moment of Inertia: Iy (in ⁴)	0.146
Radius of Gyration: Ry (in)	0.637

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.812	0.653
Section Modulus: Sxe (in ³)	0.311	0.275
Allowable Bending Moment: Ma (in-k)	6.15	8.22
Allowable Shear Force: Va (lb)	1740	2141
(check web crippling)		

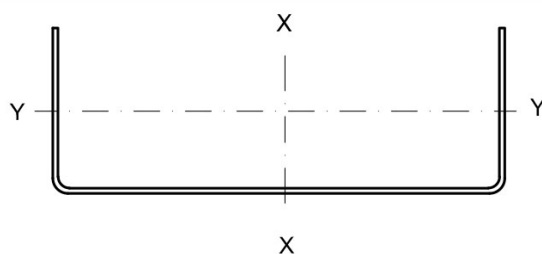
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.2443
Torsional Warping Constant: Cw (in ⁶)	0.436
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.224
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.164

PRODUCT ID

400T200-43 (4x2x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data