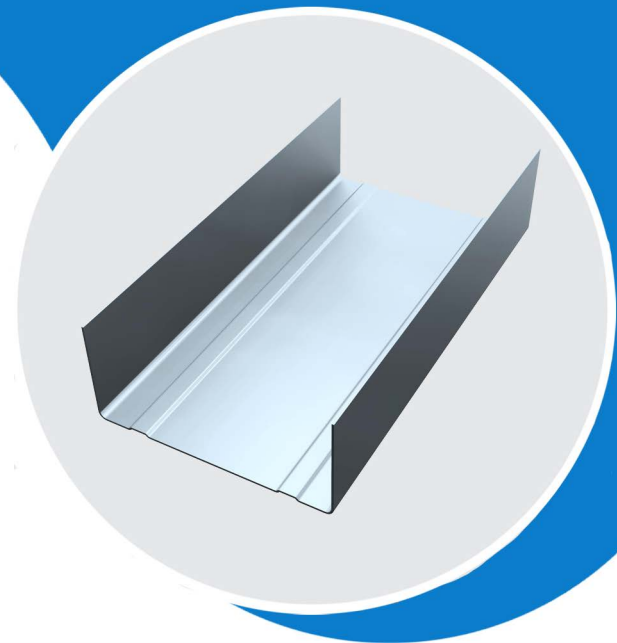


Tracks (T)



MATERIAL	
Web (in)	2½
Flange (in)	2
Yield Strength F _y (KSI)	33, 50
Tensile Strength F _u (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)	1.00
Cross Sectional Area: A (in ²)	0.293
Moment of Inertia: I _x (in ⁴)	0.366
Section Modulus: S _x (in ³)	0.275
Radius of Gyration: R _x (in)	1.119
Moment of Inertia: I _y (in ⁴)	0.126
Radius of Gyration: R _y (in)	0.656

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: I _{xe} (in ⁴)	0.289	0.283
Section Modulus: S _{xe} (in ³)	0.163	0.137
Allowable Bending Moment: M _a (in-k)	3.22	4.11
Allowable Shear Force: V _a (lb)	1356	1917
(check web crippling)		

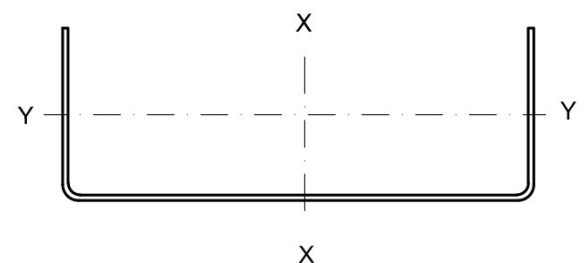
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: J _{x1000} (in ⁴)	0.198
Torsional Warping Constant: C _w (in ⁶)	0.153
Shear Center to Centroid on Principal X-axis: X _o (in)	-1.413
Radius of Gyration on the Centroid Principal axis: R _o (in)	1.918

PRODUCT ID

250T 200-43 (2½x2x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data