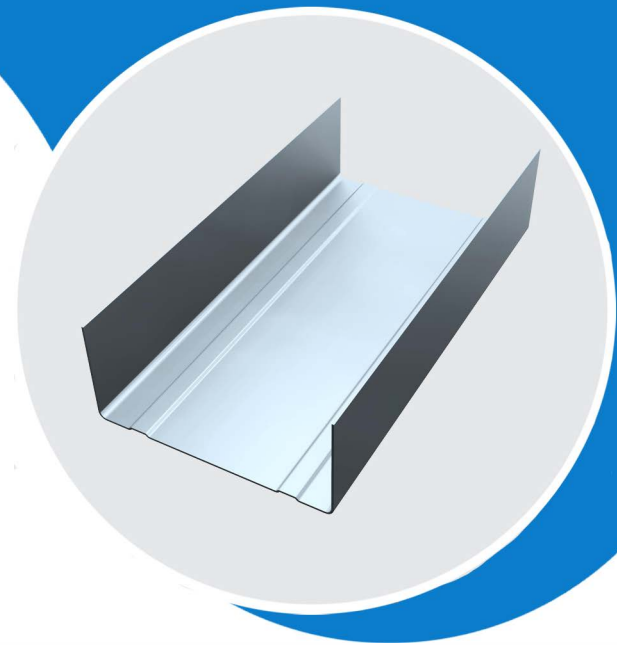


Tracks (T)



MATERIAL	
Web (in)	2½
Flange (in)	1½
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)	0.84
Cross Sectional Area: A (in ²)	0.248
Moment of Inertia: Ix (in ⁴)	0.289
Section Modulus: Sx (in ³)	0.217
Radius of Gyration: Rx (in)	1.080
Moment of Inertia: Iy (in ⁴)	0.058
Radius of Gyration: Ry (in)	0.483

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.253	0.190
Section Modulus: Sxe (in ³)	0.154	0.13
Allowable Bending Moment: Ma (in-k)	3.04	3.89
Allowable Shear Force: Va (lb)	1356	1917
(check web crippling)		

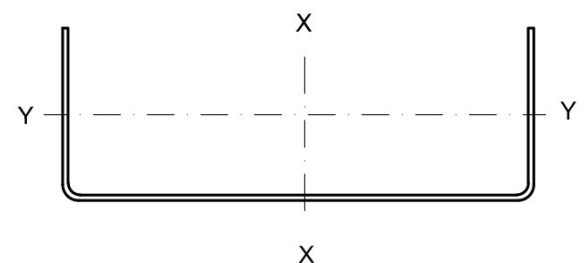
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.168
Torsional Warping Constant: Cw (in ⁶)	0.070
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.968
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.529

PRODUCT ID

250T 150-43 (2½x1½x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data