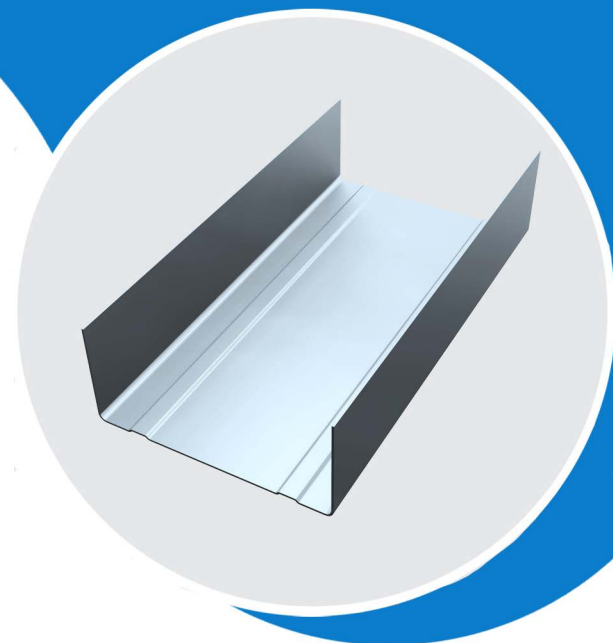


Tracks (T)



MATERIAL	
Web (in)	2½
Flange (in)	2
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.57
Cross Sectional Area: A (in ²)	0.462
Moment of Inertia: Ix (in ⁴)	0.600
Section Modulus: Sx (in ³)	0.437
Radius of Gyration: Rx (in)	1.139
Moment of Inertia: Iy (in ⁴)	0.196
Radius of Gyration: Ry (in)	0.652

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.550	0.519
Section Modulus: Sxe (in ³)	0.326	0.298
Allowable Bending Moment: Ma (in-k)	6.45	8.91
Allowable Shear Force: Va (lb)	2112	3199
(check web crippling)		

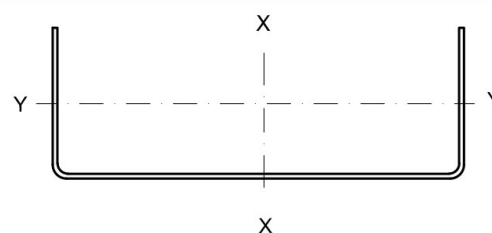
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.783
Torsional Warping Constant: Cw (in ⁶)	0.251
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.396
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.916

PRODUCT ID

250T 200-68 (2½x2x14ga) Grade 33

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data