

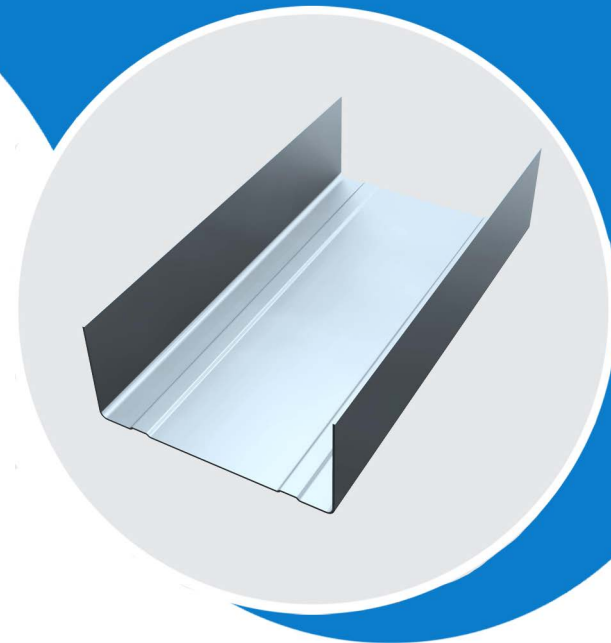
Tracks (T)

MATERIAL	
Web (in)	6
Flange (in)	2½
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	2.08
Cross Sectional Area: A (in ²)	0.611
Moment of Inertia: Ix (in ⁴)	3.412
Section Modulus: Sx (in ³)	1.137
Radius of Gyration: Rx (in)	2.364
Moment of Inertia: Iy (in ⁴)	0.374
Radius of Gyration: Ry (in)	0.783

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	2.61	2.49
Section Modulus: Sxe (in ³)	0.756	0.71
Allowable Bending Moment: Ma (in-k)	14.95	21.28
Allowable Shear Force: Va (lb)	2740	2822
(check web crippling)		

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.652
Torsional Warping Constant: Cw (in ⁶)	2.294
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.460
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.887

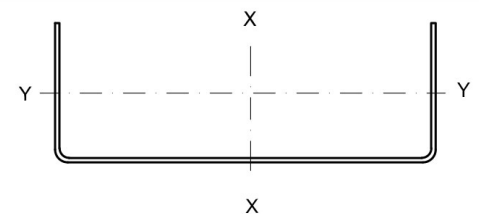


PRODUCT ID

600T250-54 (6x2½x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data