

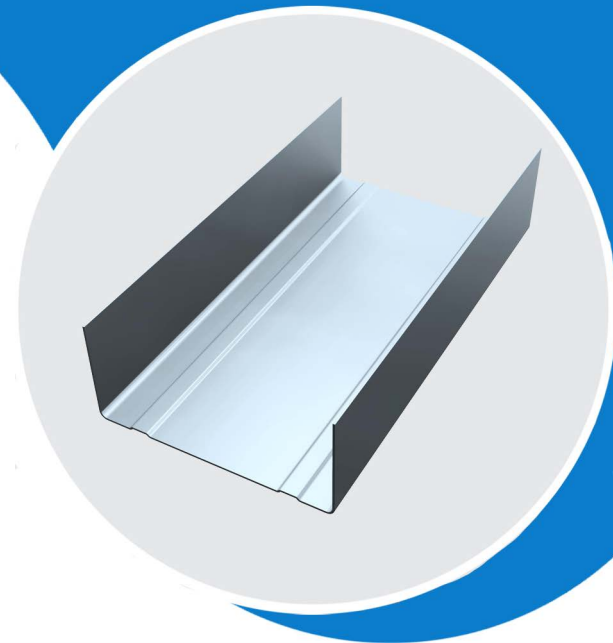
Tracks (T)

MATERIAL	
Web (in)	4
Flange (in)	1½
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0283
Minimum Thickness (mil)	27
Gauge	22
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.67
Cross Sectional Area: A (in ²)	0.198
Moment of Inertia: Ix (in ⁴)	0.509
Section Modulus: Sx (in ³)	0.246
Radius of Gyration: Rx (in)	1.602
Moment of Inertia: Iy (in ⁴)	0.042
Radius of Gyration: Ry (in)	0.461

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.409
Section Modulus: Sxe (in ³)	0.154
Allowable Bending Moment: Ma (in-k)	3.05
Allowable Shear Force: Va (lb)	515
(check web crippling)	

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.0529
Torsional Warping Constant: Cw (in ⁶)	0.127
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.824
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.860

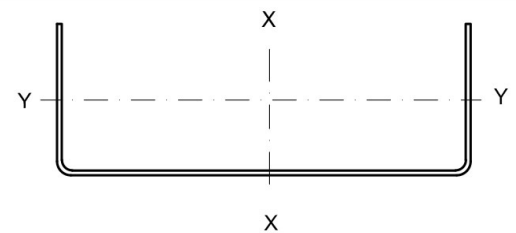


PRODUCT ID

400T150-27 (4x1½x22ga) Grade 33

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data