

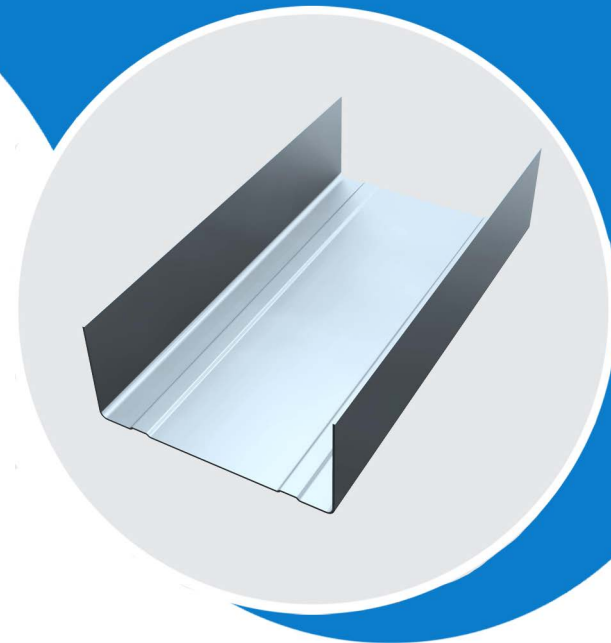
Tracks (T)

MATERIAL	
Web (in)	4
Flange (in)	1¼
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0188
Minimum Thickness (mil)	18
Gauge	25
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.42
Cross Sectional Area: A (in ²)	0.122
Moment of Inertia: Ix (in ⁴)	0.298
Section Modulus: Sx (in ³)	0.145
Radius of Gyration: Rx (in)	1.562
Moment of Inertia: Iy (in ⁴)	0.017
Radius of Gyration: Ry (in)	0.374

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.241
Section Modulus: Sxe (in ³)	0.070
Allowable Bending Moment: Ma (in-k)	1.16
Allowable Shear Force: Va (lb)	151
(check web crippling)	

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.0144
Torsional Warping Constant: Cw (in ⁶)	0.052
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.637
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.727

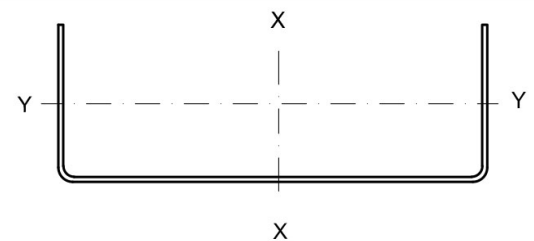


PRODUCT ID

400T125-18 (4x1¼x25ga) Grade 33

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data