

Non-Structural Stud (s)



MATERIAL	
Web (in)	6
Flange (in)	1¼
Lip (in)	0.188
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0283
Minimum Thickness (mil)	22
Gauge	27
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.83
Cross Sectional Area: A (in ²)	0.243
Moment of Inertia: Ix (in ⁴)	1.161
Section Modulus: Sx (in ³)	0.387
Radius of Gyration: Rx (in)	2.184
Moment of Inertia: Iy (in ⁴)	0.035
Radius of Gyration: Ry (in)	0.378

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.932
Section Modulus: Sxe (in ³)	0.262
Local Buckling Allowable Moment: Mal (in-k)	4.33
Distortional Buckling Allowable Moment: Mad (in-k)	3.54
Allowable strong axis shear away from punch: Vag (lb)	349
Allowable strong axis shear at punch: Vanet (lb)	279

(check web crippling)

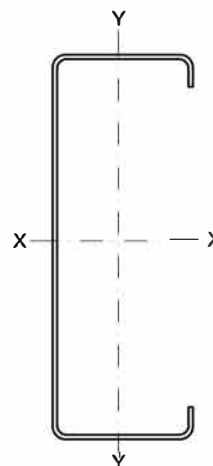
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.065
Torsional Warping Constant: Cw (in ⁶)	0.251
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.614
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.300

PRODUCT ID

600S 125-27 (6x1¼x22ga)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S 100-16



See Hermes/Hephaistos Technical Manual
for complete design data