

Non-Structural Stud (s)



MATERIAL	
Web (in)	1½
Flange (in)	1¼
Lip (in)	0.188
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0346
Minimum Thickness (mil)	33
Gauge	20S
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.49
Cross Sectional Area: A (in²)	0.145
Moment of Inertia: Ix (in⁴)	0.067
Section Modulus: Sx (in³)	0.083
Radius of Gyration: Rx (in)	0.679
Moment of Inertia: Iy (in⁴)	0.028
Radius of Gyration: Ry (in)	0.440

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.061
Section Modulus: Sxe (in³)	0.070
Local Buckling Allowable Moment: Mal (in-k)	1.38
Distortional Buckling Allowable Moment: Mad (in-k)	1.28
Allowable strong axis shear away from punch: Vag (lb)	601
Allowable strong axis shear at punch: Vanet (lb)	105

(check web crippling)

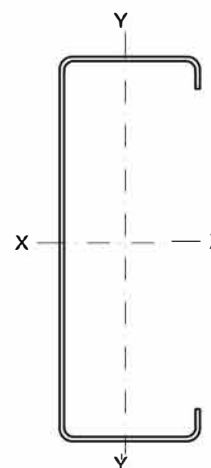
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.058
Torsional Warping Constant: Cw (in⁶)	0.016
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.010
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.294

PRODUCT ID

162 S 125-33(1½x1¼x20Sga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data