

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)	0.0346
Minimum Thickness (mil)	33
Gauge	20S
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.01
Cross Sectional Area: A (in ²)	0.297
Moment of Inertia: Ix (in ⁴)	1.410
Section Modulus: Sx (in ³)	0.470
Radius of Gyration: Rx (in)	2.180
Moment of Inertia: Iy (in ⁴)	0.042
Radius of Gyration: Ry (in)	0.375

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	1.212
Section Modulus: Sxe (in ³)	0.355
Local Buckling Allowable Moment: Mal (in-k)	7.01
Distortional Buckling Allowable Moment: Mad (in-k)	5.73
Allowable strong axis shear away from punch: Vag (lb)	638
Allowable strong axis shear at punch: Vanet (lb)	638

(check web crippling)

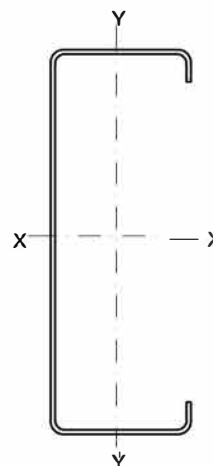
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.118
Torsional Warping Constant: Cw (in ⁶)	0.300
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.608
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.294

PRODUCT ID

600S 125-33(6x1¼x20Sga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data