Non-Structural Stud (S)

MATERIAL	
Web (in)	8
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)	1.24
Cross Sectional Area: A (in^2)	0.366
Moment of Inertia: Ix (in^4)	2.883
Section Modulus: Sx (in^3)	0.721
Radius of Gyration: Rx (in)	2.807
Moment of Inertia: Iy (in^4)	0.044
Radius of Gyration: Ry (in)	0.347

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	2.331
Section Modulus: Sxe (in^3)	0.492
Local Buckling Allowable Moment:Mal (in-k)	8.11
Distortional Buckling Allowable Moment: Mad (in-k)	6.28
Allowable strong axis shear away from punch: Vag (lb)	379
Allowable strong axis shear at punch: Vanet (lb)	379

(check web crippling)

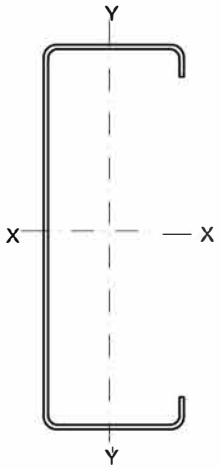
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.146
Torsional Warping Constant: Cw (in^6)	0.583
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.519
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.875

PRODUCT ID

800S 125-33 (8x1¼x20Sga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual for complete design data

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