

Non-Structural Stud (s)



MATERIAL	
Web (in)	3½
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)	0.72
Cross Sectional Area: A (in²)	0.210
Moment of Inertia: Ix (in⁴)	0.388
Section Modulus: Sx (in³)	0.222
Radius of Gyration: Rx (in)	1.358
Moment of Inertia: Iy (in⁴)	0.036
Radius of Gyration: Ry (in)	0.416

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.344
Section Modulus: Sxe (in³)	0.181
Local Buckling Allowable Moment: Mal (in-k)	3.58
Distortional Buckling Allowable Moment: Mad (in-k)	3.13
Allowable strong axis shear away from punch: Vag (lb)	1024
Allowable strong axis shear at punch: Vanet (lb)	487

(check web crippling)

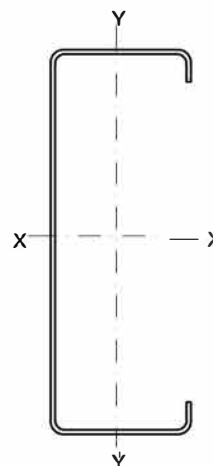
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.084
Torsional Warping Constant: Cw (in⁶)	0.087
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.781
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.621

PRODUCT ID

350S 125-33(3½x1¼x20Sga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data