

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)	0.0312
Minimum Thickness (mil)	30
Gauge	20D
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.65
Cross Sectional Area: A (in²)	0.190
Moment of Inertia: Ix (in⁴)	0.351
Section Modulus: Sx (in³)	0.201
Radius of Gyration: Rx (in)	1.360
Moment of Inertia: Iy (in⁴)	0.033
Radius of Gyration: Ry (in)	0.417

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.303
Section Modulus: Sxe (in³)	0.156
Local Buckling Allowable Moment: Mal (in-k)	3.08
Distortional Buckling Allowable Moment: Mad (in-k)	2.71
Allowable strong axis shear away from punch: Vag (lb)	824
Allowable strong axis shear at punch: Vanet (lb)	435

(check web crippling)

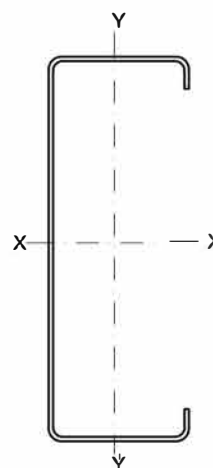
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.062
Torsional Warping Constant: Cw (in⁶)	0.079
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.784
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.624

PRODUCT ID

350S 125-30 (3½x1¼x20Dga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data