

Non-Structural Stud (s)



MATERIAL	
Web (in)	2½
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)	0.54
Cross Sectional Area: A (in²)	0.159
Moment of Inertia: Ix (in⁴)	0.161
Section Modulus: Sx (in³)	0.129
Radius of Gyration: Rx (in)	1.008
Moment of Inertia: Iy (in⁴)	0.030
Radius of Gyration: Ry (in)	0.433

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.145
Section Modulus: Sxe (in³)	0.108
Local Buckling Allowable Moment: Mal (in-k)	2.14
Distortional Buckling Allowable Moment: Mad (in-k)	1.84
Allowable strong axis shear away from punch: Vag (lb)	833
Allowable strong axis shear at punch: Vanet (lb)	378

(check web crippling)

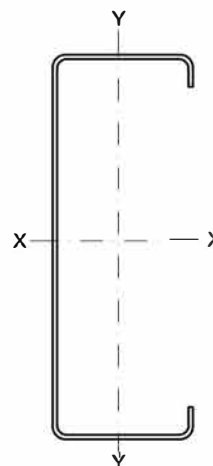
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.052
Torsional Warping Constant: Cw (in⁶)	0.037
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.890
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.413

PRODUCT ID

250S 125-30 (2½x1¼x20Dga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data