

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

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.91
Cross Sectional Area: A (in ²)	0.268
Moment of Inertia: Ix (in ⁴)	1.276
Section Modulus: Sx (in ³)	0.425
Radius of Gyration: Rx (in)	2.182
Moment of Inertia: Iy (in ⁴)	0.038
Radius of Gyration: Ry (in)	0.376

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	1.059
Section Modulus: Sxe (in ³)	0.304
Local Buckling Allowable Moment: Mal (in-k)	6.00
Distortional Buckling Allowable Moment: Mad (in-k)	4.91
Allowable strong axis shear away from punch: Vag (lb)	468
Allowable strong axis shear at punch: Vanet (lb)	468

(check web crippling)

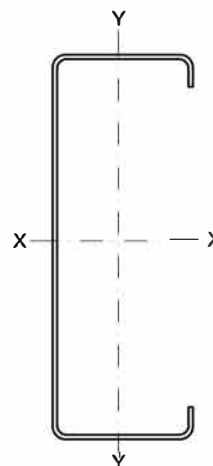
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.087
Torsional Warping Constant: Cw (in ⁶)	0.274
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.611
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.297

PRODUCT ID

600S 125-30 (6x1¼x20Dga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data