Structural Stud (S)

MATERIAL	
Web (in)	4
Flange (in)	2
Lip (in)	0.625
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	2.12
Cross Sectional Area: A (in^2)	0.622
Moment of Inertia: Ix (in^4)	1.590
Section Modulus: Sx (in^3)	0.795
Radius of Gyration: Rx (in)	1.599
Moment of Inertia: Iy (in^4)	0.349
Radius of Gyration: Ry (in)	0.750

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	1.590
Section Modulus: Sxe (in^3)	0.767
Local Buckling Allowable Moment: Mal (in-k)	22.96
Distortional Buckling Allowable Moment: Mad (in-k)	22.08
Allowable strong axis shear away from punch: Vag (lb)	4871
Allowable strong axis shear at punch: Vanet (lb)	1356
(check web crippling)	

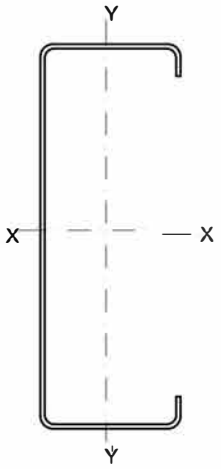
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	1.054
Torsional Warping Constant: Cw (in^6)	1.318
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.643
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.412

PRODUCT ID

400S 200-68 (4x2x14ga) (Grade 50)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S100-16



See Hermes/Hephaistos Technical Manual for complete design data

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