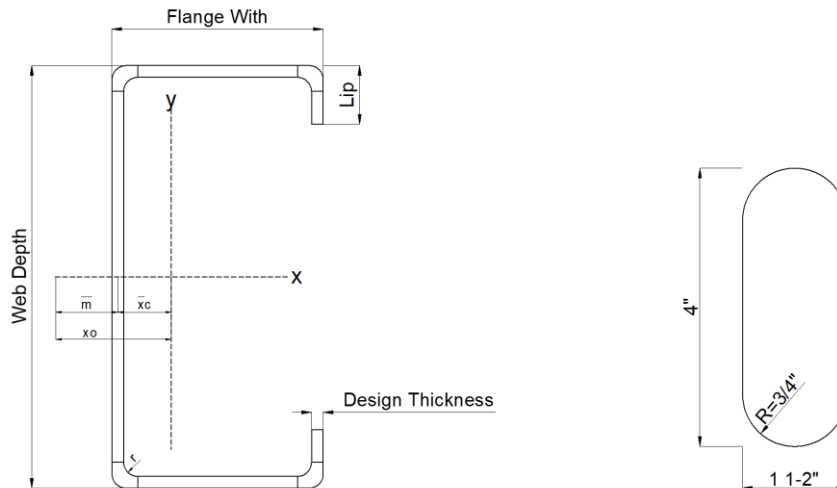


Product Type: Structural Stud

Product Definition: 362S162-54 (50ksi)

CSI Code: 05 41 00



Profile Properties:

Web Depth	3.620 in	Yield Strength Fy:	50 ksi
Flange Width	1.625 in	Unit Weight	1.43 lb/ft
Stiffening Lip	0.5000 in	Punchout Width / Length	1-1/2" – 4"
Design Thickness	0.0566 in	Coating	G60
Thickness	54mils (16Ga)		

Gross Section Properties:

Cross Sectional Area	Agross	0.4216 in ²
Member weight per foot of length		1.43 lb/ft
Moment of Inertia. x-axis	Ix	0.8701 in ⁴
Radius of Gyration. x-axis	rx	1.4366 in
Moment of Inertia. y-axis	Iy	0.1541 in ⁴
Radius of Gyration. y-axis	ry	0.6046 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0.4502 in ⁴
Warping Constant	Cw	0.4556 in ⁶
Distance Between Shear Axis and Neutral Axis	x0	-1.2831 in
Polar Radius of Gyration	r0	2.0188 in
Torsional Flexural Constant	β	0.5960
Limit of Unbraced Length	Lu	33.34 in



Effective Section Properties:

Effective Area	Aeff	0.3409 in ²
Effective Moment of Inertia for Deflection	Ixe	0.8561 in ⁴
Effective Section Modulus	Sxe	0.4669 in ³
Allowable Bending Moment	Ma	13.9788 in.k
Allowable Moment (Distortional Buckling)	Mad	13.5743 in.k
Allowable Shear Force (Solid Section)	Vag	3372 lbs
Allowable Shear Force (Perforated Section)	VaPO	1013 lbs

Codes & Standards:

- Calculations are based on AISI S240-20 and AISI S100-16 (2020) w/S2-20.
- Complies with IBC 2024. ASTM C955. ASTM C754. ASTM A653. ASTM A1003. ASTM E72
- LEED / Sustainability Credits: Environmental Product Declaration S-P Code: S-P-00869