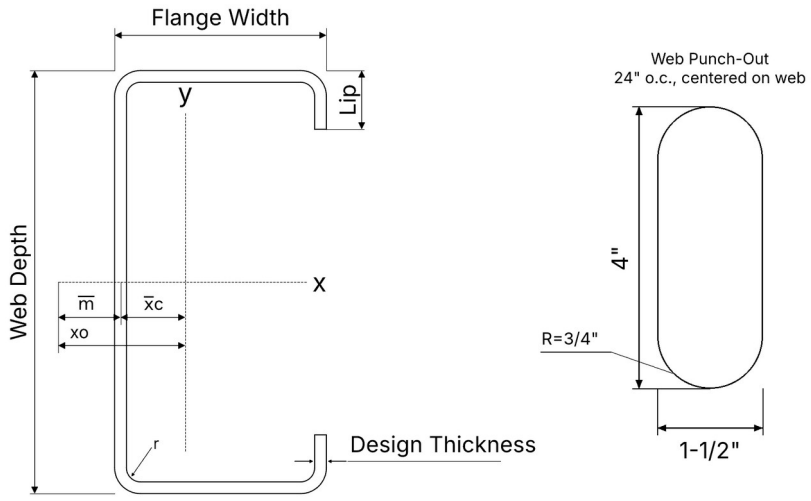
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 1000S300-68-P (33ksi, Punched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	10.000 in	Yield Strength Fy:	33 ksi
Flange Width	3.000 in	Unit Weight	4.06 lb/ft
Stiffening Lip	0.6250 in	Punchout Width / Length	1-1/2'' – 4''
Design Thickness	0.0713 in	Coating	G60 or G90
Thickness	68 mils (14 Ga)	Min. Steel Thickness	0.0677 in
Inside Bend Radius	0.1069 in	Tensile Strength Fu	45 ksi

Gross Section Properties:

Cross Sectional Area	Agross	1.1921 in2
Member weight per foot of length		4.06 lb/ft
Moment of Inertia. x-axis	Ix	17.5132 in4
Section Modulus. x-axis	Sx	3.5026 in3
Radius of Gyration. x-axis	rx	3.8328 in
Moment of Inertia. y-axis	Iy	1.2580 in4
Radius of Gyration. y-axis	ry	1.0273 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	2.0202 in4
Warping Constant	Cw	24.5507 in6
Distance Between Shear Axis and Neutral Axis	x0	-1.8745 in
Shear Center to Web Centerline	m	1.1765 in
Polar Radius of Gyration	r0	4.3886 in
Torsional Flexural Constant	β	0.8176
Limit of Unbraced Length	Lu	64.67 in

Effective Section Properties:

Effective Area	Aeff	0.6728 in2
Effective Moment of Inertia for Deflection	Ixe	16.4058 in4
Effective Section Modulus	Sxe	3.1583 in3
Allowable Bending Moment	Ma	62.4090 in.k
Allowable Moment (Distortional Buckling)	Mad	54.2998 in.k
Allowable Shear Force (Solid Section)	Vag	3345 lbs
Allowable Shear Force (Perforated Section)	VaPO	3345 lbs

Codes & Standards:

- Calculations are based on AISI S240-20 and AISI S100-16 (2020) w/S2-20.
- AISI S240-20 North American Standard for Cold-Formed Steel Structural Framing: Section A3 Material (ASTM A1003/A1003M); Section A4 Corrosion Protection (ASTM A653/A653M); Section A5 Products – thickness, shapes, tolerances, identification; Section C Installation (ASTM C1007).
- IBC 2024 International Building Code. ASTM C955. ASTM A1003. ASTM A653 SS Grade 33. Coating G60 or G90 per AISI S240 Section A4.
- ICC-ES ESR-5905 UMS Joists, UMS Studs and UMS Tracks.
- LEED / Sustainability Credits: Environmental Product Declaration S-P Code: S-P-00869
- Note: Punch-outs 1-1/2'' × 4'' at 24'' o.c., first punch-out min. 12'' from end. Properties are for the full section away from punch-outs; VaPO accounts for the punch-out.

Structural Studs. The technical content of this literature is effective 10/30/2026 and supersedes all previous information.