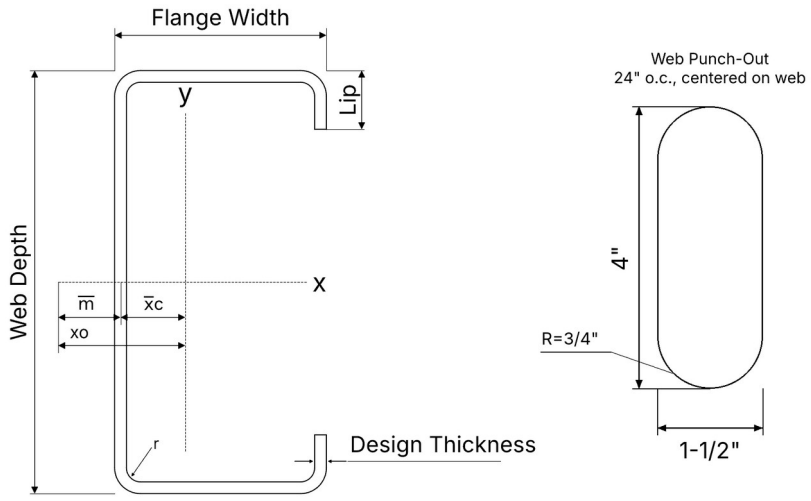
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 600S300-97-P (33ksi, Punched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	6.000 in	Yield Strength Fy:	33 ksi
Flange Width	3.000 in	Unit Weight	4.32 lb/ft
Stiffening Lip	0.6250 in	Punchout Width / Length	1-1/2'' – 4''
Design Thickness	0.1017 in	Coating	G60 or G90
Thickness	97 mils (12 Ga)	Min. Steel Thickness	0.0966 in
Inside Bend Radius	0.1525 in	Tensile Strength Fu	45 ksi

Gross Section Properties:

Cross Sectional Area	Agross	1.2706 in2
Member weight per foot of length		4.32 lb/ft
Moment of Inertia. x-axis	Ix	7.3826 in4
Section Modulus. x-axis	Sx	2.4609 in3
Radius of Gyration. x-axis	rx	2.4104 in
Moment of Inertia. y-axis	Iy	1.4540 in4
Radius of Gyration. y-axis	ry	1.0697 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	4.3807 in4
Warping Constant	Cw	10.7758 in6
Distance Between Shear Axis and Neutral Axis	x0	-2.2412 in
Shear Center to Web Centerline	m	1.3429 in
Polar Radius of Gyration	r0	3.4608 in
Torsional Flexural Constant	β	0.5806
Limit of Unbraced Length	Lu	70.55 in

Effective Section Properties:

Effective Area	Aeff	1.1136 in2
Effective Moment of Inertia for Deflection	Ixe	7.2203 in4
Effective Section Modulus	Sxe	2.3671 in3
Allowable Bending Moment	Ma	46.7760 in.k
Allowable Moment (Distortional Buckling)	Mad	48.2528 in.k
Allowable Shear Force (Solid Section)	Vag	6911 lbs
Allowable Shear Force (Perforated Section)	VaPO	2512 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.