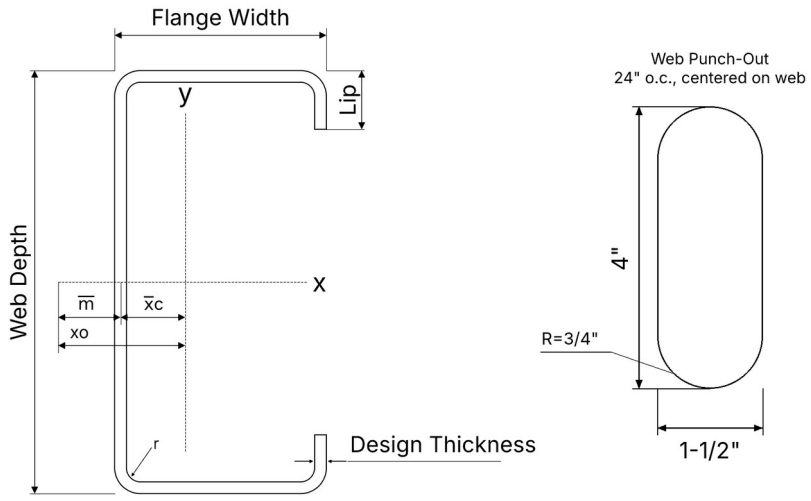
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 600S162-97-P (33ksi, Punched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	6.000 in	Yield Strength Fy:	33 ksi
Flange Width	1.625 in	Unit Weight	3.29 lb/ft
Stiffening Lip	0.5000 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	0.9655 in2
Member weight per foot of length		3.29 lb/ft
Moment of Inertia. x-axis	Ix	4.7990 in4
Section Modulus. x-axis	Sx	1.5997 in3
Radius of Gyration. x-axis	rx	2.2294 in
Moment of Inertia. y-axis	Iy	0.2832 in4
Radius of Gyration. y-axis	ry	0.5416 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	3.3289 in4
Warping Constant	Cw	2.1532 in6
Distance Between Shear Axis and Neutral Axis	x0	-0.9968 in
Shear Center to Web Centerline	m	0.6362 in
Polar Radius of Gyration	r0	2.5014 in
Torsional Flexural Constant	β	0.8412
Limit of Unbraced Length	Lu	41.81 in

Effective Section Properties:

Effective Area	Aeff	0.8588 in2
Effective Moment of Inertia for Deflection	Ixe	4.7969 in4
Effective Section Modulus	Sxe	1.5991 in3
Allowable Bending Moment	Ma	31.5998 in.k
Allowable Moment (Distortional Buckling)	Mad	31.6105 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.