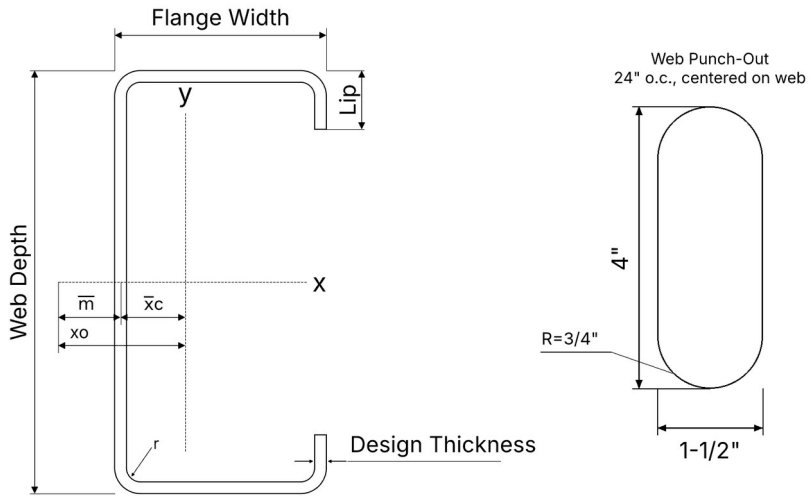
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 300S250-68-P (33ksi, Punched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	3.000 in	Yield Strength Fy:	33 ksi
Flange Width	2.500 in	Unit Weight	2.12 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	0.6217 in2
Member weight per foot of length		2.12 lb/ft
Moment of Inertia. x-axis	Ix	0.9708 in4
Section Modulus. x-axis	Sx	0.6472 in3
Radius of Gyration. x-axis	rx	1.2496 in
Moment of Inertia. y-axis	Iy	0.5385 in4
Radius of Gyration. y-axis	ry	0.9306 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	1.0536 in4
Warping Constant	Cw	1.2928 in6
Distance Between Shear Axis and Neutral Axis	x0	-2.2744 in
Shear Center to Web Centerline	m	1.3037 in
Polar Radius of Gyration	r0	2.7569 in
Torsional Flexural Constant	β	0.3194
Limit of Unbraced Length	Lu	59.60 in

Effective Section Properties:

Effective Area	Aeff	0.5922 in2
Effective Moment of Inertia for Deflection	Ixe	0.9562 in4
Effective Section Modulus	Sxe	0.6276 in3
Allowable Bending Moment	Ma	12.4008 in.k
Allowable Moment (Distortional Buckling)	Mad	12.7892 in.k
Allowable Shear Force (Solid Section)	Vag	2333 lbs
Allowable Shear Force (Perforated Section)	VaPO	346 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.