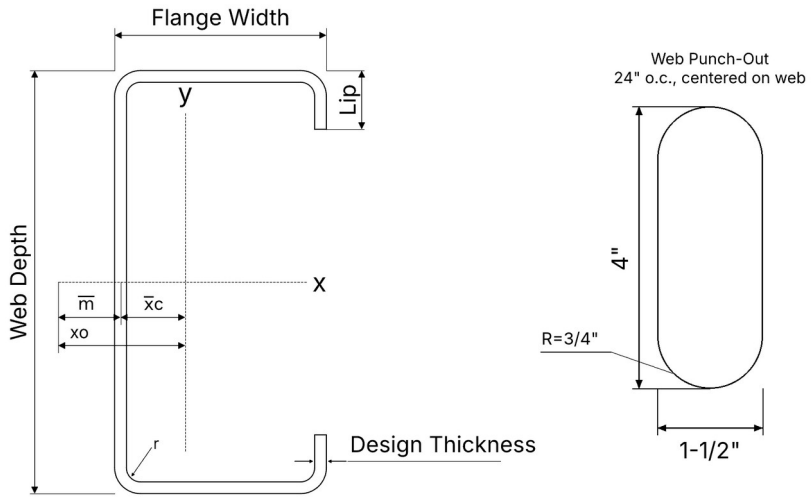
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 362S250-54-P (33ksi, Punched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	3.625 in	Yield Strength Fy:	33 ksi
Flange Width	2.500 in	Unit Weight	1.82 lb/ft
Stiffening Lip	0.6250 in	Punchout Width / Length	1-1/2'' – 4''
Design Thickness	0.0566 in	Coating	G60 or G90
Thickness	54 mils (16 Ga)	Min. Steel Thickness	0.0538 in
Inside Bend Radius	0.0849 in	Tensile Strength Fu	45 ksi

Gross Section Properties:

Cross Sectional Area	Agross	0.5351 in2
Member weight per foot of length		1.82 lb/ft
Moment of Inertia. x-axis	Ix	1.2103 in4
Section Modulus. x-axis	Sx	0.6678 in3
Radius of Gyration. x-axis	rx	1.5039 in
Moment of Inertia. y-axis	Iy	0.4726 in4
Radius of Gyration. y-axis	ry	0.9397 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0.5714 in4
Warping Constant	Cw	1.5057 in6
Distance Between Shear Axis and Neutral Axis	x0	-2.1841 in
Shear Center to Web Centerline	m	1.2693 in
Polar Radius of Gyration	r0	2.8134 in
Torsional Flexural Constant	β	0.3973
Limit of Unbraced Length	Lu	56.95 in

Effective Section Properties:

Effective Area	Aeff	0.4350 in2
Effective Moment of Inertia for Deflection	Ixe	1.1423 in4
Effective Section Modulus	Sxe	0.6031 in3
Allowable Bending Moment	Ma	11.9183 in.k
Allowable Moment (Distortional Buckling)	Mad	12.4636 in.k
Allowable Shear Force (Solid Section)	Vag	2341 lbs
Allowable Shear Force (Perforated Section)	VaPO	705 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.