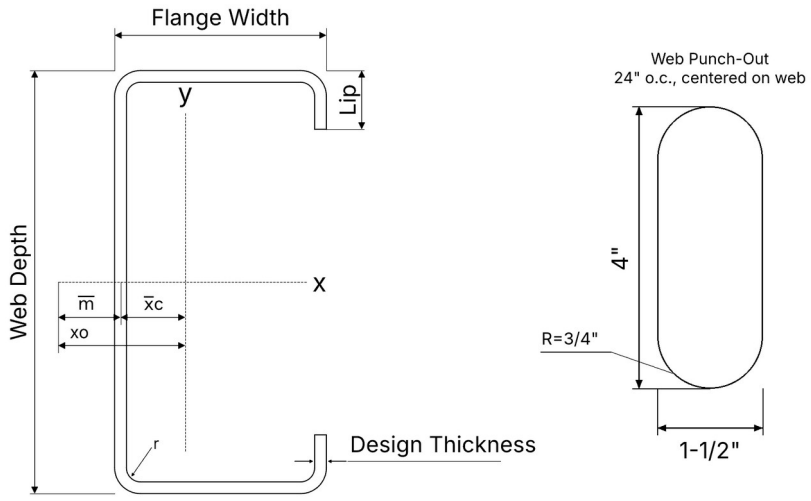
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 1200S162-97-P (33ksi, Punched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	12.000 in	Yield Strength Fy:	33 ksi
Flange Width	1.625 in	Unit Weight	5.36 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	1.5757 in2
Member weight per foot of length		5.36 lb/ft
Moment of Inertia. x-axis	Ix	26.9766 in4
Section Modulus. x-axis	Sx	4.4961 in3
Radius of Gyration. x-axis	rx	4.1376 in
Moment of Inertia. y-axis	Iy	0.3318 in4
Radius of Gyration. y-axis	ry	0.4589 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	5.4326 in4
Warping Constant	Cw	10.3309 in6
Distance Between Shear Axis and Neutral Axis	x0	-0.6908 in
Shear Center to Web Centerline	m	0.4699 in
Polar Radius of Gyration	r0	4.2199 in
Torsional Flexural Constant	β	0.9732
Limit of Unbraced Length	Lu	37.96 in

Effective Section Properties:

Effective Area	Aeff	0.9300 in2
Effective Moment of Inertia for Deflection	Ixe	26.4530 in4
Effective Section Modulus	Sxe	4.3271 in3
Allowable Bending Moment	Ma	85.5049 in.k
Allowable Moment (Distortional Buckling)	Mad	83.8924 in.k
Allowable Shear Force (Solid Section)	Vag	8145 lbs
Allowable Shear Force (Perforated Section)	VaPO	7410 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.