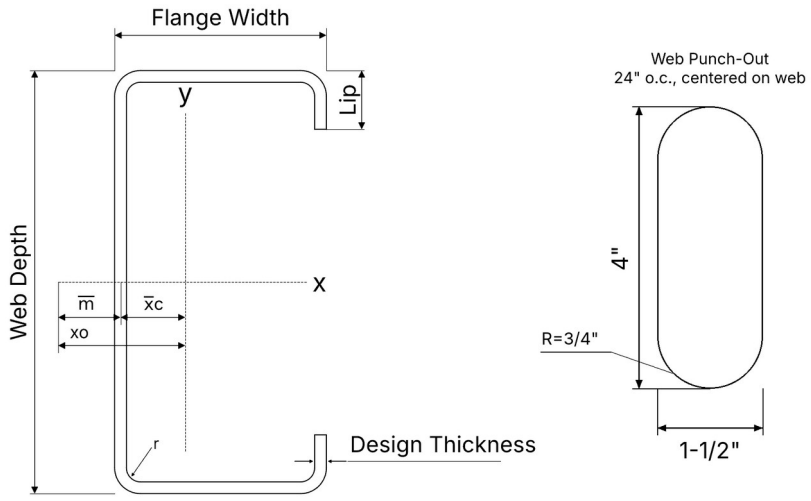
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 1000S200-68-P (50ksi, Punched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	10.000 in	Yield Strength Fy:	50 ksi
Flange Width	2.000 in	Unit Weight	3.57 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	65 ksi

Gross Section Properties:

Cross Sectional Area	Agross	1.0495 in2
Member weight per foot of length		3.57 lb/ft
Moment of Inertia. x-axis	Ix	13.9988 in4
Section Modulus. x-axis	Sx	2.7998 in3
Radius of Gyration. x-axis	rx	3.6521 in
Moment of Inertia. y-axis	Iy	0.4599 in4
Radius of Gyration. y-axis	ry	0.6619 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	1.7785 in4
Warping Constant	Cw	9.4009 in6
Distance Between Shear Axis and Neutral Axis	x0	-1.1197 in
Shear Center to Web Centerline	m	0.7286 in
Polar Radius of Gyration	r0	3.8768 in
Torsional Flexural Constant	β	0.9166
Limit of Unbraced Length	Lu	38.34 in

Effective Section Properties:

Effective Area	Aeff	0.5617 in2
Effective Moment of Inertia for Deflection	Ixe	12.9884 in4
Effective Section Modulus	Sxe	2.4203 in3
Allowable Bending Moment	Ma	72.4654 in.k
Allowable Moment (Distortional Buckling)	Mad	64.5218 in.k
Allowable Shear Force (Solid Section)	Vag	3345 lbs
Allowable Shear Force (Perforated Section)	VaPO	3345 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 50 Class 1. 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.