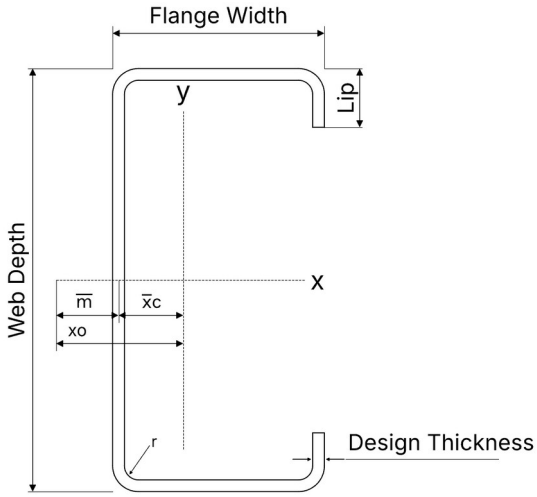
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 300S200-97-U (50ksi, Unpunched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	3.000 in	Yield Strength Fy:	50 ksi
Flange Width	2.000 in	Unit Weight	2.59 lb/ft
Stiffening Lip	0.6250 in	Punchout Width / Length	None (unpunched)
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	65 ksi

Gross Section Properties:

Cross Sectional Area	Agross	0.7621 in2
Member weight per foot of length		2.59 lb/ft
Moment of Inertia. x-axis	Ix	1.1003 in4
Section Modulus. x-axis	Sx	0.7335 in3
Radius of Gyration. x-axis	rx	1.2015 in
Moment of Inertia. y-axis	Iy	0.4151 in4
Radius of Gyration. y-axis	ry	0.7380 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	2.6276 in4
Warping Constant	Cw	1.0097 in6
Distance Between Shear Axis and Neutral Axis	x0	-1.7553 in
Shear Center to Web Centerline	m	1.0278 in
Polar Radius of Gyration	r0	2.2515 in
Torsional Flexural Constant	β	0.3922
Limit of Unbraced Length	Lu	42.58 in

Effective Section Properties:

Effective Area	Aeff	0.7621 in2
Effective Moment of Inertia for Deflection	Ixe	1.1002 in4
Effective Section Modulus	Sxe	0.7335 in3
Allowable Bending Moment	Ma	21.9620 in.k
Allowable Moment (Distortional Buckling)	Mad	21.9620 in.k
Allowable Shear Force (Solid Section)	Vag	4751 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: Supplied without web punch-outs.

Structural Studs. The technical content of this literature is effective 10/30/2026 and supersedes all previous information.