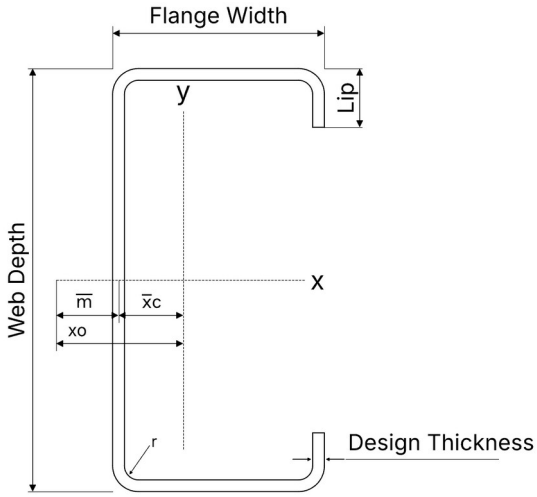
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 362S162-54-U (50ksi, Unpunched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	3.625 in	Yield Strength Fy:	50 ksi
Flange Width	1.625 in	Unit Weight	1.44 lb/ft
Stiffening Lip	0.5000 in	Punchout Width / Length	None (unpunched)
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	65 ksi

Gross Section Properties:

Cross Sectional Area	Agross	0.4219 in2
Member weight per foot of length		1.44 lb/ft
Moment of Inertia. x-axis	Ix	0.8729 in4
Section Modulus. x-axis	Sx	0.4816 in3
Radius of Gyration. x-axis	rx	1.4384 in
Moment of Inertia. y-axis	Iy	0.1542 in4
Radius of Gyration. y-axis	ry	0.6045 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0.4505 in4
Warping Constant	Cw	0.4569 in6
Distance Between Shear Axis and Neutral Axis	x0	-1.2825 in
Shear Center to Web Centerline	m	0.7745 in
Polar Radius of Gyration	r0	2.0197 in
Torsional Flexural Constant	β	0.5968
Limit of Unbraced Length	Lu	33.34 in

Effective Section Properties:

Effective Area	Aeff	0.3409 in2
Effective Moment of Inertia for Deflection	Ixe	0.8589 in4
Effective Section Modulus	Sxe	0.4677 in3
Allowable Bending Moment	Ma	14.0043 in.k
Allowable Moment (Distortional Buckling)	Mad	13.5962 in.k
Allowable Shear Force (Solid Section)	Vag	3372 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.