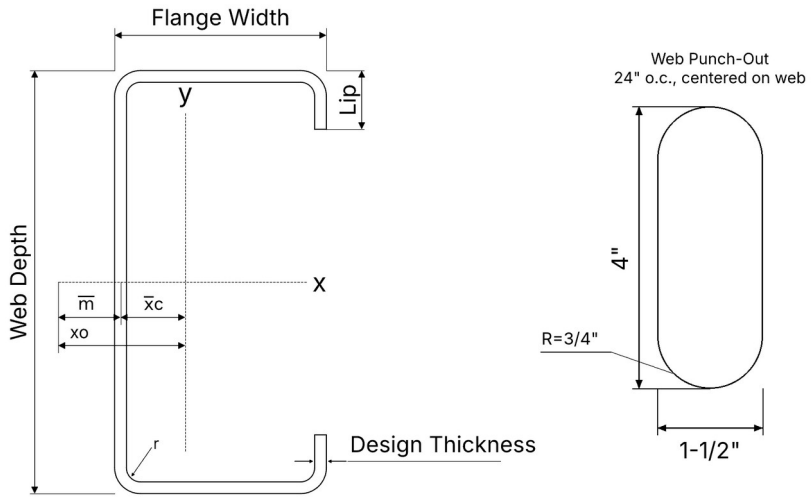
# PRODUCT SUBMITTAL SHEET

**Product Type:** Structural Stud

**Product Definition:** 300S200-33-P (33ksi, Punched)

**CSI Code:** 05 41 00




## Profile Properties:

| | | | |
|---|---|---|---|
| Web Depth | 3.000 in | Yield Strength Fy: | 33 ksi |
| Flange Width | 2.000 in | Unit Weight | 0.94 lb/ft |
| Stiffening Lip | 0.6250 in | Punchout Width / Length | 1-1/2'' – 4'' |
| Design Thickness | 0.0346 in | Coating | G60 or G90 |
| Thickness | 33 mils (20 Ga) | Min. Steel Thickness | 0.0329 in |
| Inside Bend Radius | 0.0764 in | Tensile Strength Fu | 45 ksi |

## Gross Section Properties:

| | | |
|---|---|---|
| Cross Sectional Area | Agross | 0.2751 in2 |
| Member weight per foot of length | | 0.94 lb/ft |
| Moment of Inertia. x-axis | Ix | 0.4215 in4 |
| Section Modulus. x-axis | Sx | 0.2810 in3 |
| Radius of Gyration. x-axis | rx | 1.2378 in |
| Moment of Inertia. y-axis | Iy | 0.1651 in4 |
| Radius of Gyration. y-axis | ry | 0.7746 in |

## Torsional Properties:

| | | |
|---|---|---|
| St. Venant Torsion Constant | J x 1000 | 0.1098 in4 |
| Warping Constant | Cw | 0.4094 in6 |
| Distance Between Shear Axis and Neutral Axis | x0 | -1.8388 in |
| Shear Center to Web Centerline | m | 1.0724 in |
| Polar Radius of Gyration | r0 | 2.3481 in |
| Torsional Flexural Constant | β | 0.3867 |
| Limit of Unbraced Length | Lu | 50.67 in |

## Effective Section Properties:

| | | |
|---|---|---|
| Effective Area | Aeff | 0.2084 in2 |
| Effective Moment of Inertia for Deflection | Ixe | 0.3927 in4 |
| Effective Section Modulus | Sxe | 0.2502 in3 |
| Allowable Bending Moment | Ma | 4.9440 in.k |
| Allowable Moment (Distortional Buckling) | Mad | 5.0122 in.k |
| Allowable Shear Force (Solid Section) | Vag | 1024 lbs |
| Allowable Shear Force (Perforated Section) | VaPO | 350 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.*