



www.studsunlimited.com

Product Category: 05 41 00 - Structural Framing

Product Name: 1000S200-68

Important Properties Notes:

- Calculated properties are based on AISI S100-12 with S2-10 Supplement, North American Specification for Design of Cold-Formed Steel Structural Members.
- The centerline bend radius is based on inside corner radii shown in thickness chart.
- Effective properties incorporate the strength cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties are based on full-section of the studs, away from punchouts.
- For deflection calculations, use the effective
- Allowable moment includes cold-work of forming.
- For the steels that have both 33 and 50 ksi listing, if the design is based on 50 ksi, the 50 ksi steel needs to be specified. (ex. 362S162-43 (50 ksi))

Project Information

Name:

Address:

Contractor Information

Name:

Contact:

Phone:

Fax:

Architect Information

Name:

Contact:

Phone:

Fax:

Distributor/Rep Information

Name:

Contact:

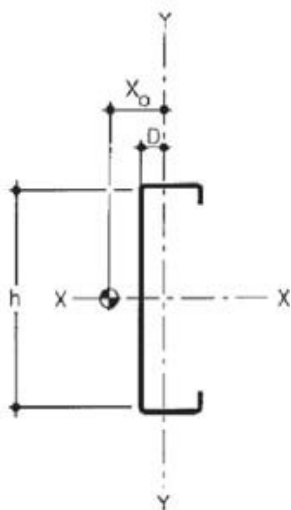
Phone:

Email /Web:

Properties

1000S200-68 Properties

Finish:	G90
Web Depth	10" in
Flange Width	2" in
Design Thickness	0.0713 in
Thickness	68 mils or 14GA
Yield stress, F_y	50 ksi
Weight	3.571 lb/ft



1000S200-68 Section Properties

Gross Section Properties

Cross sectional area (A)	1.05 in ²
Moment of inertia (Ix)	13.999 in ⁴
Section Modulus (Sx)	2.8 in ³
Radius of gyration (Rx)	3.652 in
Gross moment of inertia (Iy)	0.46 in ⁴
Gross Radius of gyration (Ry)	0.662 in

Effective Section Properties

Moment of inertia for deflection (Ixe)	13.417 in ⁴
Section modulus (Sxe)	2.417 in ³
Allowable bending moment (Ma)	72.36 in-k
Allowable bending moment from distortional buckling (Mad)	65.57 in-K
Allowable strong axis shear away from punch-out (Vag)	3345 lb
Allowable strong axis shear at punch out (Vanet)	3345 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	1.779 in ⁴
Warping constant (Cw)	9.401 in ⁶
Distance from shear center to neutral axis (Xo)	-1.120 in
Distance from shear center to mid-plane (M)	0.729 in
Radii of gyration (Ro)	3.877 in
Torsional flexural constant (Beta)	0.917
Unbraced Length (Lu)	39.6 in



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Limiting Heights Properties

Limiting Wall Heights - Curtain Wall 1-Span

Spacing (inches)	5psf			15psf			20psf			25psf		
	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
12												
16												
24												

Spacing (inches)	30psf			35psf			40psf			50psf		
	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
12												
16												
24												

Additional Specification Information

Studs Unlimited is an SFIA member. Studs Unlimited acts in accordance with the product and quality standards required by the SFIA program.

Studs Unlimited meets or exceeds ASTM C955, A653, and A1003.

LEED Specification Information

Materials & Resources Credit 2: Construction Waste Management - Studs Unlimited Steel Framing Products are formed from steel and are 100% recyclable. **(1 point)**

Materials & Resources Credit 4: Recycled Content intends to increase demand for building products that incorporate recycled content materials, therefore reducing impacts resulting from extraction and processing of new virgin materials. As discussed and demonstrated below, North American steel building products contribute positively toward points under Credits 4.1 and 4.2. The following is required by LEED-NC Versions 2.2 and 2009:

Credit 4.1 (1 point) Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 10%(based on cost) of the total value of the materials in the project.

Credit 4.2 (1 point) Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 20% of the total value of the materials in the project.

Materials & Resources Credit 5: Regional Materials - Contact Studs Unlimited directly for information at bjpowell@studsunlimited.com. Studs Unlimited is located in Oklahoma City, Oklahoma. **(1 point)**