www.studsunlimited.com

Product Category: 05 41 00 - Structural Framing
Product Name: 1200S300-68

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:

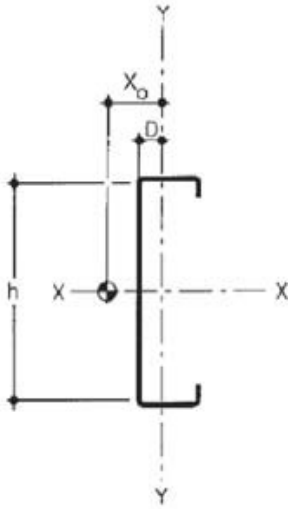
Architect Information
Name:
Contact:
Phone:
Fax:

Distributor/Rep Information
Name:
Contact:
Phone:
Email /Web:

Properties

1200S300-68 Properties

Finish:	G60	
Web Depth	12"	in
Flange Width	3"	in
Design Thickness	0.0713	in
Thickness	68 mils or 14GA	
Yield stress, Fy	50	ksi
Weight	4.542	lb/ft



1200S300-68 Section Properties

Gross Section Properties

Cross sectional area (A)	1.355	in2
Moment of inertia (Ix)	27.028	In4
Section Modulus (Sx)	4.505	in3
Radius of gyration (Rx)	4.5	in
Gross moment of inertia (Iy)	1.32	in4
Gross Radius of gyration (Ry)	0.994	in

Effective Section Properties

Moment of inertia for deflection (Ixe)	24.099	in4
Section modulus (Sxe)	3.315	in3
Allowable bending moment (Ma)	99.25	In-k
Allowable bending moment from distortional buckling (Mad)	88.25	In-K
Allowable strong axis shear away from punch-out (Vag)	2770	lb
Allowable strong axis shear at punch out (Vanet)	2770	lb

Torsional Properties

St. Venant torsion constant (J x 1000)	2.262	in4
Warping constant (Cw)	37.126	in6
Distance from shear center to neutral axis (Xo)	-1.726	in
Distance from shear center to mid-plane (M)	1.103	in
Radii of gyration (Ro)	4.921	in
Torsional flexural constant (Beta)	0.877	
Unbraced Length (Lu)	57.18	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)**