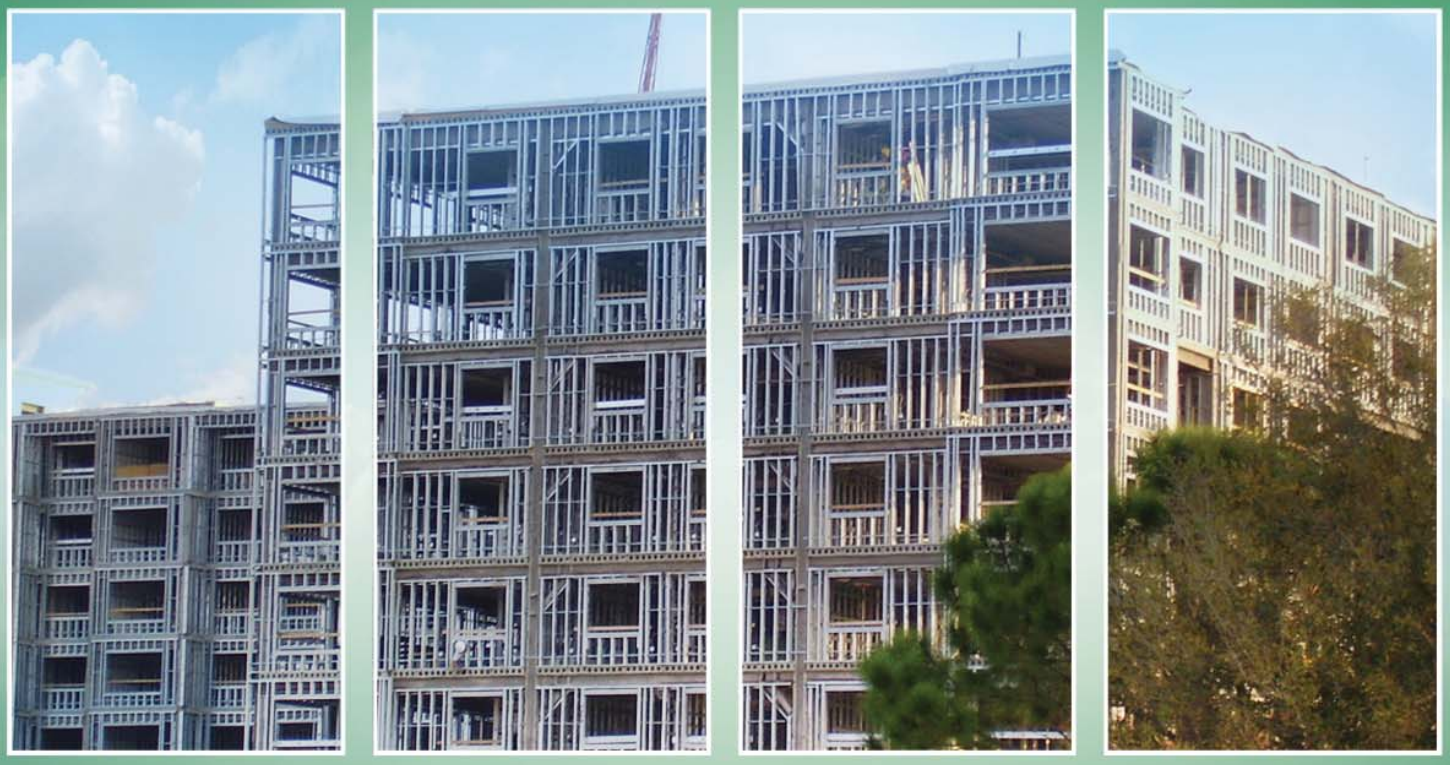
QUALITY LIGHT STEEL FRAMING CONNECTIONS AND MEMBERS

LIGHT STEEL FRAMING OPENINGS

JAMBS · HEADERS · SILLS

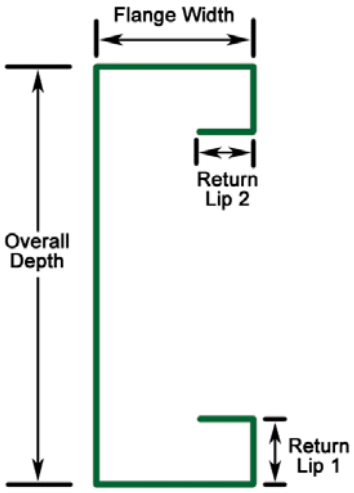


The Steel Network

STEELNETWORK.COM
1.888.474.4876

600JS250-43, 50ksi

- 600 — Overall Depth (in) x 100 — *Ex: 6”*
- JS — JamStud® Section
- 250 — Flange Width (in) x 100 — *Ex: 2.5”*
- 43 — Thickness (mils) — *Ex: 43mil (18ga)*



Background

JamStud is a revolutionary addition to the light gauge steel stud industry, producing significant economies in both design and installation when compared with conventional “C” Shaped studs. JamStud’s unique configuration delivers increased strength and stiffness, minimizing or eliminating the use of built-up jamb and header sections in curtain wall or load bearing wall assemblies. Available in all common wall stud depths, JamStud streamlines the design and construction process. JamStud’s shape is easily differentiated from the typical c-shape, enabling the selection of the most optimal member sizes to fit project conditions. ASI’s SteelSmart® System software includes the complete database of sections to quickly design both JamStud header and jamb members. Visit **www.steelsmartsystem.com** for your copy today!

JamStud®

Benefits That Add Value:

Quality

- Increases load capacity over a standard “C-shaped” stud of the same thickness, reducing overal all materials needed (single “JS” from double or triple “C-Shape” common)
- Increased stiffness for deflection
- Increased load capacity enables selection of optimal thickness of curtain wall or load bearing wall members

Value

- Simplified jamb and header design
- Lighter weight results in shipping efficiencies and easier handling
- Provides a flat surface for attachment of door or window frame, requiring no additional track
- No welding or fastening built-up members together

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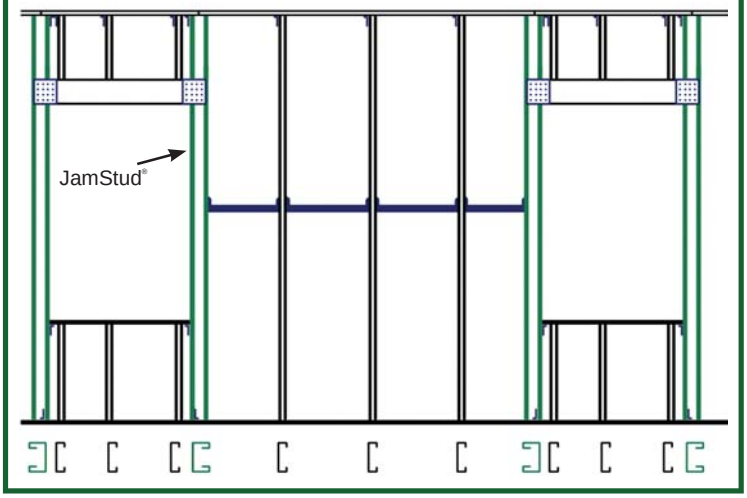
Light Steel Framing Openings — JamStud® Solution

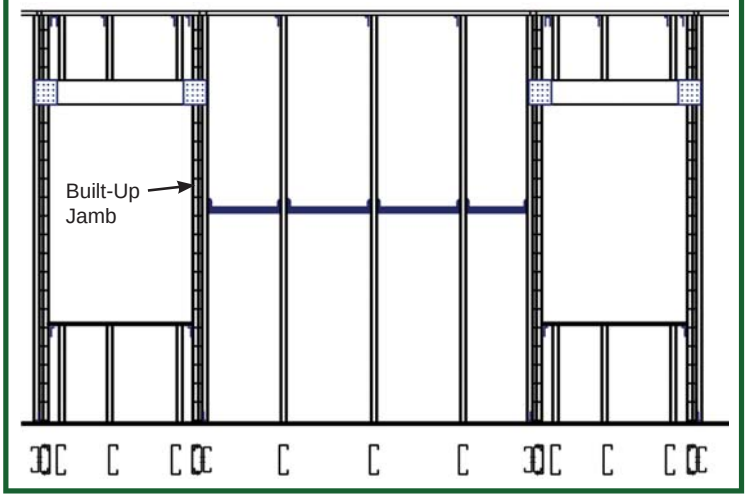
Assembly Comparison

14’ Wall Example: 600JS350-54mil JamStud compared with (2) 600S162-43 and (1) 600T125-43 members. Refer to Jamb Design Example for design methodology.

JamStud® Solution



Typical Built-Up Jambs



Jamb Member	Weight Per Jamb (lbs)	Qty #10 Screws to Top and Bottom Ends of Stud	Qty #10 Screws to Attach Built-Up Jamb (24” o.c.)	Total Qty #10 Screws at Each Jamb	Qty #10 Screws to Stud & Jamb in Each Two-Opening Assembly Above	Conclusion
600JS350-54, 50ksi	39.3	2 (To bottom track**)	None	2	8	JamStud is as strong as the built-up column, but with **80% of the total weight** and **26 fewer fasteners to install per jamb**. Less materials to handle and fewer fasteners translate to **an increase in the rate of production**.
(2) 600S162-43 + (1) 5’ 600T125-43 section*	50.4	4 (To bottom track**)	24*	28*	112**	The back-to-back jamb members require two #10 screws spaced vertically at 24” on center. **Built-up jambs require 14 times the amount of screw fasteners** for installation purposes as opposed to the JamStud assembly.

* A flat surface facing the opening is typically required for attachment of the window frame. A 5’ track section has been factored in the properties of the built-up jamb, adding 8 screws for each jamb in the screw total above.

** Connection methods for supporting the header and sill, as well as wall bridging, vertical deflection, and jamb tie-downs are not factored in the number of screws to stud as they are similar in each assembly.

BuckleBridge® used for Curtain Wall

“Proven, field tested and a valuable component in the future of light steel framing construction!”

Insert

Click

Done!*

Saving Benefits

- *Fewer Screws Needed!!*
- *Reduces Install Cost for Walls!*
- *No Twisting with GWB Installation!*
- *Added Strength!*
- *Suitable for 6” & 8“ Walls at 16” o.c.!*
- *Meets All Code Requirements!*
- *Automatically Aligns Studs!*

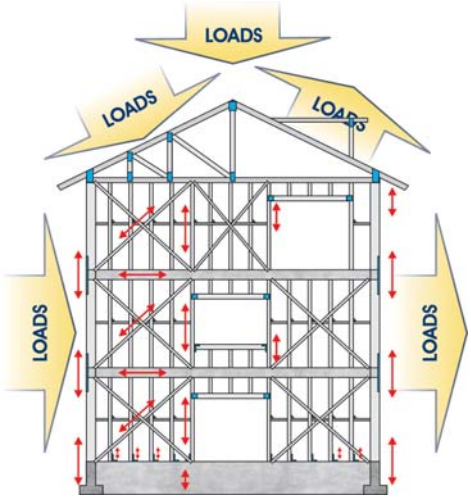
** Use (1) #10 screw on alternate sides of the BuckleBridge at 3rd stud (48” o.c.) Use (2) #10 screws at end of wall run.*

Light Steel Framing Openings

Design Considerations

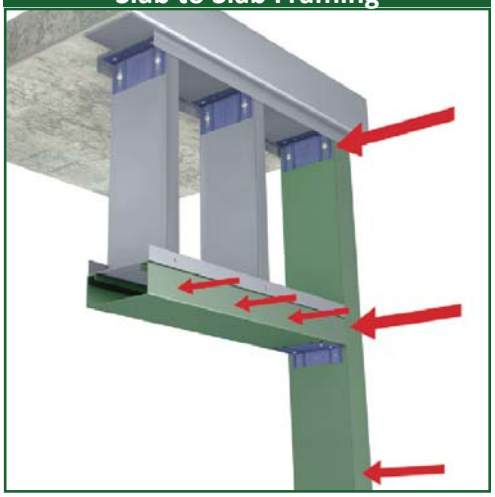
Load Paths

Tracing and verifying load paths through a structure is crucial to protect design liability. Loads need to migrate from the roof, through the wall and floor systems, and terminate in the foundation. For curtain wall systems, JamStud® transfers out-of plane wind loads from the header and sill to the primary structural system with a single member, simplifying the verification process. Use of a VertiClip® to accommodate vertical deflection will connect the JamStud web to the structure and provide a positive, verifiable connection path. In load bearing wall applications, JamStud transfers vertical gravity loads and out of plane wind loads from the header and sill into the floor system.

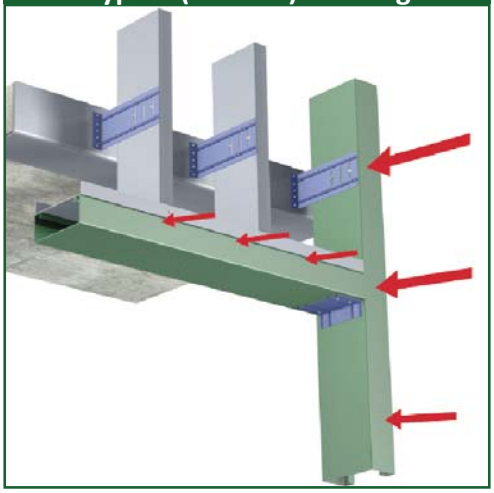


The optional StiffClip® CL or AL at the base of the wall resists web crippling and delivers an effective load transfer element to the structure. The top three images below illustrate the simplicity in tracing a verifiable load path in a curtain wall opening. The image on the left shows slab-to-slab framing, the middle image is a diagram of bypass (balloon) framing, and the image on the right illustrates the loads at a sill and the bottom end of the JamStud. The bottom two images below illustrate the simplicity in tracing a verifiable load path in a load bearing wall opening. The image on the left shows the header and top end of the jamb in a bearing wall condition and the image on the right shows the sill and the bottom end of the jamb in a bearing wall condition..

Slab to Slab Framing



Bypass (Balloon) Framing

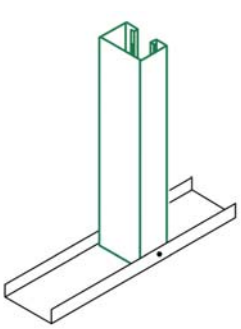


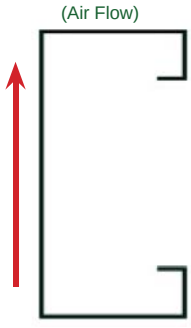
Sill Framing

The largest arrows in each diagram indicate end reactions at the structure, with the medium-sized arrows signifying the reactions from the header and sill to JamStud. The smallest arrows point to a uniform wind load. A web stiffener is sometimes required at the top and bottom of the stud and is dependent on the end reactions present. Use of VertiClip SL or StiffClip AL at the top of wall and either StiffClip AL or StiffClip CL at the bottom satisfy the web stiffener requirements (if needed).

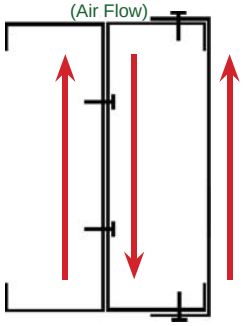
Thermal Value

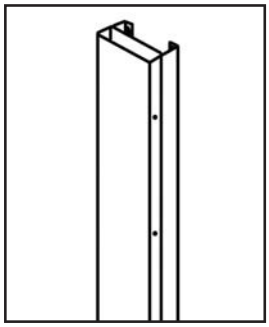
JamStud provides an improvement in thermal considerations over built-up sections.





JamStud reduces the amount of materials used in the jamb, reducing the thermal bridge as well as requiring less insulation.

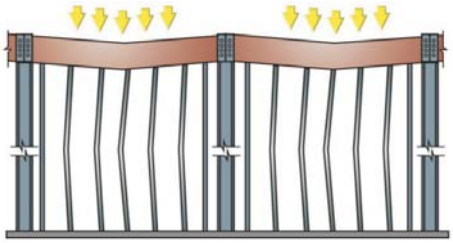


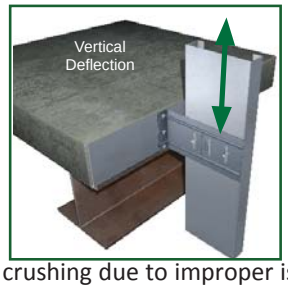


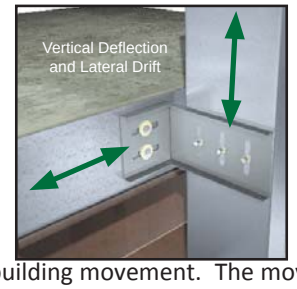
The additional webs in a built-up section increases the area of the thermal bridge. In addition, insulation is required inside the cavity or cavities created in the built-up section.

Primary Structural Deflection

All structures deflect vertically. To prevent studs and non bearing openings from carrying the weight of the structure and to protect finishes, vertical deflection connections should be incorporated at the earliest possible moment of project design. The load-carrying capacity of a steel stud in bending is reduced significantly when adding an axial force propagated by the bending of a primary beam or slab. VertiClip® was developed to prevent the crushing effect on non-axial-load-bearing wall studs. Non-axial-load-bearing wall studs include exterior curtain wall and interior wall assemblies. When project conditions dictate, lateral drift and vertical deflection may be accommodated through utilization of TSN's DriftClip® and DriftTrak® lines of connectors.







Finished walls frequently experience cracking, buckling, or crushing due to improper isolation of building movement. The movement of the primary building structure is largely accounted for in horizontal member live loading. In addition to live loads, wind, seismic forces, moisture content in materials, and temperature cycles all contribute to movement. The incorporation of vertical deflection connections during the working drawing phase will eliminate the liability of failures and added costs associated with wall system installation.

The VertiClip and DriftClip series of mechanical connectors is a complete solution for all vertical deflection configurations. Substantial effort has been made to standardize construction practices thus ensuring the positive connections of light steel framing components. VertiClip has undergone extensive field and independent laboratory testing to achieve a true slip connection solution that isolates all secondary frame components from loads induced by vertical movement.

*Each VertiClip and DriftClip is delivered to the installer with step bushings pre-installed for accurate fastener placement. Connection examples shown on this page represent possible application solutions. Connection use is dependant upon project load requirements. More solutions are found in The Steel Network's *Light Steel Framing Connection Catalog*. Contact TSN's Technical Support Team at (888) 474-4876 for design recommendations.

ICC ES™

An ICC Evaluation Report for VertiClip® & DriftClip® is available. Refer to ICC-ESR-1903 & ICC-ESR-2049 at www.icc-es.org or at www.steelnetwork.com

Wall Bridging

As axial compression and lateral wind loads are applied, wall studs react with weak axis buckling and torsional rotation. To offset these results, a form of bridging is incorporated into the wall system.

The allowable load capacity of steel studs is dependant upon the presence of securely-attached wall bridging systems at specific vertical intervals (48" or 60" o.c.).

Bridging is typically addressed with either a channel running through the stud punchouts securely fastened to each stud or by flat straps attached to each stud flange.

TSN provides the industry's most effective bridging methods with BuckleBridge®, BridgeClip®, BridgeBar®, and BC600/800.

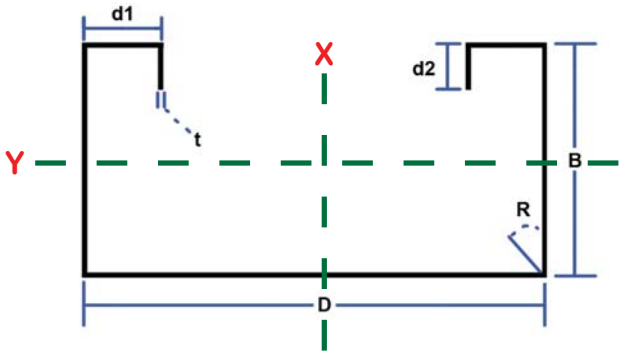
More bridging information is found in TSN's Light Steel Framing Connections Catalog.

Light Steel Framing Openings

JamStud® Section Properties

Important Notes

1. Effective properties incorporate the strength increase from the cold-work of forming as applicable per AISI S100-07, Section A7.2.
2. Tabulated gross properties are based on the full-unreduced cross section of the studs, away from punchouts.
3. Allowable moment is the lesser of M_{al} and M_{ad}. Stud distortional buckling is based on an assumed $k_{\phi} = 0$.
4. For deflection calculations, use the effective moment of inertia.
5. The effective moment of inertia for deflection is calculated at a stress which results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100-07 Procedure I for serviceability determination has been used.



JamStud® Section Dimensions							
JamStud® Section (All Studs 50ksi)	Overall Depth	Flange Width	Return Lip 1	Return Lip 2	Inside Bend Radius	Design Thickness	Unit Weight
	D	B	d1	d2	R	t	(lbs/ft)
	(in)	(in)	(in)	(in)	(in)	(in)	
350JS250-33	3.5	2.5	0.5892	0.5	0.105	0.0346	1.196
350JS250-43	3.5	2.5	0.6102	0.5	0.105	0.0451	1.553
350JS250-54	3.5	2.5	0.6332	0.5	0.105	0.0566	1.942
350JS250-68	3.5	2.5	0.6626	0.5	0.105	0.0713	2.435
350JS250-97	3.5	2.5	0.7234	0.5	0.105	0.1017	3.438
350JS350-68	3.5	3.5	0.6626	0.5	0.105	0.0713	2.920
350JS350-97	3.5	3.5	0.7234	0.5	0.105	0.1017	4.130
350JS350-118	3.5	3.5	0.7684	0.5	0.105	0.1242	5.005
362JS250-33	3.625	2.5	0.5892	0.5	0.105	0.0346	1.210
362JS250-43	3.625	2.5	0.6102	0.5	0.105	0.0451	1.572
362JS250-54	3.625	2.5	0.6332	0.5	0.105	0.0566	1.966
362JS250-68	3.625	2.5	0.6626	0.5	0.105	0.0713	2.465
362JS250-97	3.625	2.5	0.7234	0.5	0.105	0.1017	3.481
362JS350-68	3.625	3.5	0.6626	0.5	0.105	0.0713	2.950
362JS350-97	3.625	3.5	0.7234	0.5	0.105	0.1017	4.173
362JS350-118	3.625	3.5	0.7684	0.5	0.105	0.1242	5.058
400JS250-33	4	2.5	0.5892	0.5	0.105	0.0346	1.255
400JS250-43	4	2.5	0.6102	0.5	0.105	0.0451	1.630
400JS250-54	4	2.5	0.6332	0.5	0.105	0.0566	2.038
400JS250-68	4	2.5	0.6626	0.5	0.105	0.0713	2.556
400JS250-97	4	2.5	0.7234	0.5	0.105	0.1017	3.611
400JS350-68	4	3.5	0.6626	0.5	0.105	0.0713	3.041
400JS350-97	4	3.5	0.7234	0.5	0.105	0.1017	4.303
400JS350-118	4	3.5	0.7684	0.5	0.105	0.1242	5.216

JamStud® Section Dimensions							
JamStud® Section (All Studs 50ksi)	Overall Depth	Flange Width	Return Lip 1	Return Lip 2	Inside Bend Radius	Design Thickness	Unit Weight
	D	B	d1	d2	R	t	(lbs/ft)
	(in)	(in)	(in)	(in)	(in)	(in)	
550JS250-33	5.5	2.5	0.5892	0.5	0.105	0.0346	1.431
550JS250-43	5.5	2.5	0.6102	0.5	0.105	0.0451	1.860
550JS250-54	5.5	2.5	0.6332	0.5	0.105	0.0566	2.327
550JS250-68	5.5	2.5	0.6626	0.5	0.105	0.0713	2.920
550JS250-97	5.5	2.5	0.7234	0.5	0.105	0.1017	4.130
550JS250-118	5.5	2.5	0.7684	0.5	0.105	0.1242	5.005
550JS350-68	5.5	3.5	0.6626	0.5	0.105	0.0713	3.405
550JS350-97	5.5	3.5	0.7234	0.5	0.105	0.1017	4.822
550JS350-118	5.5	3.5	0.7684	0.5	0.105	0.1242	5.849
600JS250-33	6	2.5	0.5892	0.5	0.105	0.0346	1.490
600JS250-43	6	2.5	0.6102	0.5	0.105	0.0451	1.937
600JS250-54	6	2.5	0.6332	0.5	0.105	0.0566	2.424
600JS250-68	6	2.5	0.6626	0.5	0.105	0.0713	3.041
600JS250-97	6	2.5	0.7234	0.5	0.105	0.1017	4.303
600JS250-118	6	2.5	0.7684	0.5	0.105	0.1242	5.216
600JS350-68	6	3.5	0.6626	0.5	0.105	0.0713	3.527
600JS350-97	6	3.5	0.7234	0.5	0.105	0.1017	4.995
600JS350-118	6	3.5	0.7684	0.5	0.105	0.1242	6.060
800JS250-43	8	2.5	0.6102	0.5	0.105	0.0451	2.244
800JS250-54	8	2.5	0.6332	0.5	0.105	0.0566	2.809
800JS250-68	8	2.5	0.6626	0.5	0.105	0.0713	3.527
800JS250-97	8	2.5	0.7234	0.5	0.105	0.1017	4.995
800JS250-118	8	2.5	0.7684	0.5	0.105	0.1242	6.060
800JS350-68	8	3.5	0.6626	0.5	0.105	0.0713	4.012
800JS350-97	8	3.5	0.7234	0.5	0.105	0.1017	5.688
800JS350-118	8	3.5	0.7684	0.5	0.105	0.1242	6.904

Material Properties

ASTM A1003/A1003M or ASTM A653/A653M, Grade 50 (340), 50ksi (340MPa) minimum yield strength, 65ksi (450 MPa) minimum tensile strength, G-60 (Z180) hot-dipped galvanized coating.

Important Notes

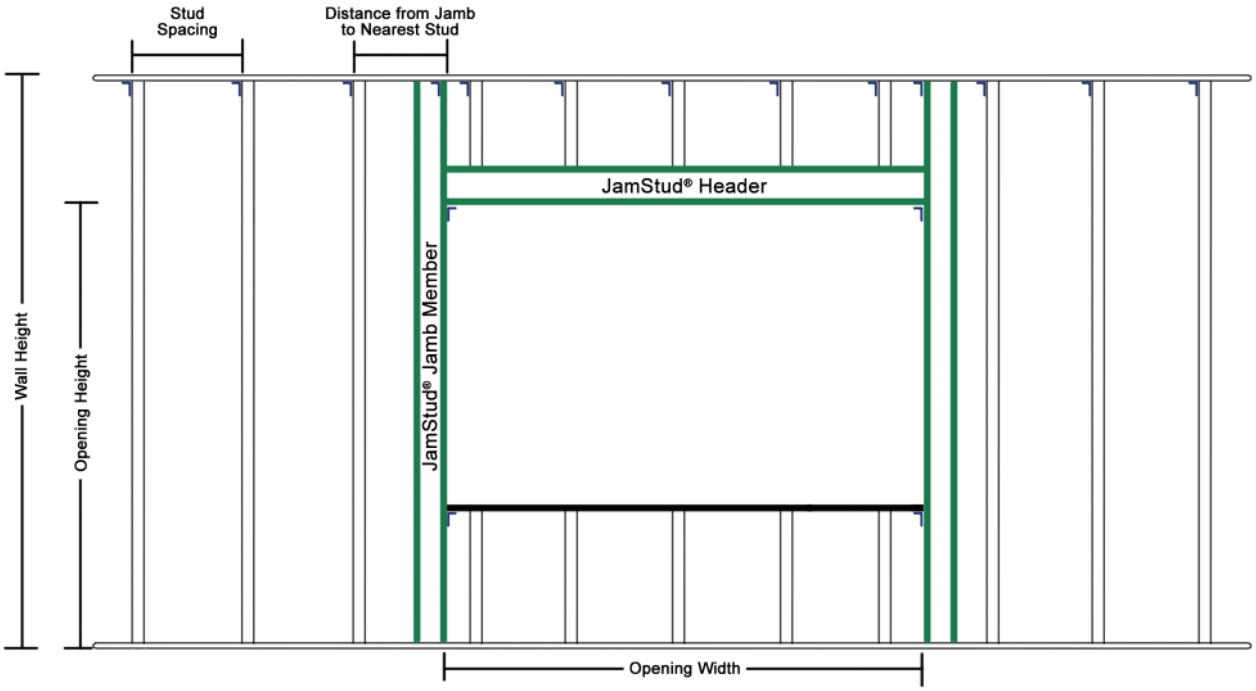
1. Effective properties incorporate the strength increase from the cold-work of forming as applicable per AISI S100-07, Section A7.2.
2. Tabulated gross properties are based on the full-unreduced cross section of the studs, away from punchouts.
3. Allowable moment is the lesser of M_{al} and M_{ad}. Stud distortional buckling is based on an assumed $k_\phi = 0$.
4. For deflection calculations, use the effective moment of inertia.
5. The effective moment of inertia for deflection is calculated at a stress which results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100-07 Procedure I for serviceability determination has been used.

JamStud Section (All 50 ksi)	Gross Properties (for Un-punched Sections)												Effective Properties 50 ksi ("net" = Punched Sections)												Effective Properties if limited to 33 ksi Strength			
	Area	I_x	S_x	R_x	I_y	R_y	$Jx10^3$	C_w	R_o	X_o	m	ß	I_x	S_x	$S_{x\,(net)}$	M_{al}	$M_{al\,(net)}$	M_{ad}	V_a	$V_{a\,(net)}$	I_{ye} [1]	M_{yal} [1]	M_{yad} [1]	I_{ye} [2]	M_{yal} [2]	I_{xe}	M_{al}	$M_{al\,(net)}$	M_{ad}
	(in^2)	(in^4)	(in^3)	(in)	(in^4)	(in)	(in^4)	(in^6)	(in)	(in)	(in)		(in^4)	(in^3)	(in^3)	(kips-in)	(kips-in)	(kips-in)	(lbs)	(lbs)	(in^4)	(kips-in)	(kips-in)	(in^4)	(kips-in)	(in^4)	(kips-in)	(kips-in)	(kips-in)
350JS250-33	0.351	0.734	0.419	1.445	0.329	0.967	0.140	1.206	3.025	-2.476	1.448	0.330	0.692	0.331	0.300	9.904	8.995	9.106	1145	527	0.329	6.761	6.157	0.273	5.897	0.714	7.010	6.548	6.973
350JS250-43	0.456	0.945	0.540	1.439	0.424	0.964	0.309	1.565	3.017	-2.471	1.445	0.329	0.933	0.447	0.418	13.371	12.505	13.045	2141	747	0.424	8.738	8.738	0.383	8.097	0.945	9.764	9.389	9.864
350JS250-54	0.571	1.171	0.669	1.432	0.526	0.960	0.609	1.953	3.008	-2.465	1.442	0.329	1.171	0.571	0.545	17.099	16.324	17.616	3371	925	0.526	10.864	10.864	0.508	10.390	1.171	12.370	12.069	13.136
350JS250-68	0.715	1.450	0.829	1.424	0.653	0.955	1.212	2.443	2.996	-2.457	1.439	0.328	1.450	0.748	0.728	22.400	21.809	23.676	4208	900	0.653	13.522	13.522	0.653	13.302	1.450	17.765	17.494	16.378
350JS250-97	1.010	1.999	1.142	1.406	0.904	0.946	3.483	3.431	2.972	-2.441	1.430	0.325	1.999	1.125	1.107	37.597	37.006	34.192	5886	850	0.904	18.806	18.806	0.904	18.806	1.999	25.603	25.240	22.567
350JS350-68	0.858	1.870	1.068	1.476	1.471	1.309	1.454	5.401	3.980	-3.456	1.965	0.246	1.812	0.804	0.774	24.073	23.179	26.651	4208	900	1.471	22.321	22.321	1.471	21.873	1.866	17.681	17.250	20.057
350JS350-97	1.214	2.586	1.478	1.460	2.050	1.300	4.184	7.627	3.958	-3.441	1.957	0.244	2.574	1.267	1.238	37.945	37.068	42.171	5886	850	2.050	31.234	31.234	2.050	31.234	2.586	30.448	29.989	29.198
350JS350-118	1.471	3.082	1.761	1.448	2.457	1.293	7.538	9.227	3.941	-3.430	1.951	0.243	3.082	1.670	1.644	50.000	49.221	52.725	7073	814	2.457	37.545	37.545	2.457	37.545	3.082	37.714	37.206	34.798
362JS250-33	0.356	0.795	0.438	1.495	0.333	0.968	0.142	1.277	3.031	-2.453	1.437	0.345	0.750	0.347	0.313	10.387	9.375	9.461	1102	544	0.333	6.795	6.079	0.273	5.910	0.774	7.345	6.827	7.249
362JS250-43	0.462	1.024	0.565	1.489	0.430	0.964	0.313	1.656	3.023	-2.447	1.435	0.344	1.011	0.468	0.435	14.012	13.038	13.565	2141	802	0.430	8.783	8.663	0.384	8.106	1.024	10.223	9.796	10.265
362JS250-54	0.578	1.269	0.700	1.482	0.533	0.961	0.617	2.066	3.014	-2.442	1.432	0.344	1.269	0.598	0.569	17.908	17.031	18.335	3372	994	0.533	10.921	10.921	0.511	10.406	1.269	12.944	12.598	13.687
362JS250-68	0.724	1.573	0.868	1.474	0.662	0.956	1.227	2.583	3.002	-2.434	1.428	0.342	1.573	0.783	0.761	23.449	22.775	24.670	4375	1007	0.662	13.593	13.593	0.662	13.332	1.573	18.596	18.333	17.149
362JS250-97	1.023	2.169	1.197	1.456	0.916	0.946	3.527	3.625	2.977	-2.418	1.420	0.340	2.169	1.178	1.161	39.389	38.814	35.835	6124	954	0.916	18.908	18.908	0.916	18.908	2.169	26.833	26.483	23.651
362JS350-68	0.867	2.023	1.116	1.528	1.491	1.311	1.469	5.715	3.977	-3.430	1.954	0.256	1.961	0.841	0.808	25.186	24.190	27.689	4375	1007	1.491	22.444	22.444	1.491	21.921	2.019	18.481	18.050	20.857
362JS350-97	1.226	2.801	1.545	1.511	2.078	1.302	4.228	8.065	3.955	-3.415	1.947	0.254	2.787	1.325	1.296	39.672	38.798	43.895	6124	954	2.078	31.410	31.410	2.078	31.410	2.801	31.821	31.370	30.533
362JS350-118	1.486	3.340	1.843	1.499	2.491	1.295	7.617	9.753	3.938	-3.404	1.941	0.253	3.340	1.746	1.721	52.284	51.518	55.170	7363	917	2.491	37.760	37.760	2.491	37.760	3.340	39.444	38.948	36.412
400JS250-33	0.369	0.995	0.497	1.643	0.346	0.969	0.147	1.506	3.055	-2.386	1.407	0.390	0.941	0.397	0.351	11.873	10.514	10.530	991	589	0.346	6.891	5.819	0.275	5.944	0.971	8.375	7.661	8.083
400JS250-43	0.479	1.283	0.641	1.637	0.446	0.965	0.325	1.951	3.046	-2.381	1.404	0.389	1.268	0.534	0.489	15.981	14.635	15.133	2141	967	0.446	8.908	8.380	0.389	8.130	1.283	11.631	11.014	11.479
400JS250-54	0.599	1.591	0.796	1.630	0.554	0.962	0.640	2.432	3.037	-2.375	1.401	0.388	1.591	0.681	0.640	20.397	19.150	20.506	3372	1201	0.554	11.077	11.077	0.520	10.449	1.591	14.708	14.190	15.351
400JS250-68	0.751	1.975	0.987	1.622	0.688	0.957	1.273	3.038	3.025	-2.368	1.398	0.387	1.975	0.891	0.858	26.669	25.675	27.679	4876	1360	0.688	13.790	13.790	0.686	13.411	1.975	21.143	19.215	19.511
400JS250-97	1.061	2.730	1.365	1.604	0.953	0.948	3.658	4.255	3.000	-2.352	1.390	0.386	2.730	1.343	1.351	44.884	40.448	40.871	6839	1299	0.953	19.189	19.189	0.953	19.189	2.730	30.605	30.288	26.975
400JS350-68	0.894	2.525	1.263	1.681	1.547	1.316	1.514	6.736	3.976	-3.354	1.922	0.288	2.447	0.955	0.909	28.602	27.223	30.818	4876	1360	1.547	22.789	22.789	1.530	22.043	2.519	20.930	20.378	23.268
400JS350-97	1.265	3.503	1.751	1.664	2.158	1.306	4.360	9.488	3.953	-3.339	1.915	0.286	3.483	1.502	1.473	44.961	44.092	49.104	6839	1299	2.158	31.903	31.903	2.158	31.903	3.503	36.019	35.587	34.610
400JS350-118	1.533	4.184	2.092	1.652	2.587	1.299	7.855	11.458	3.936	-3.328	1.909	0.285	4.184	1.980	1.955	59.268	58.533	62.640	8235	1256	2.587	38.361	38.361	2.587	38.361	4.184	44.732	44.265	41.343
550JS250-33	0.421	2.063	0.750	2.215	0.390	0.962	0.168	2.703	3.239	-2.158	1.300	0.556	1.974	0.572	0.572	17.118	17.118	14.859	706	703	0.390	7.183	4.661	0.280	6.030	2.019	12.848	12.848	11.473
550JS250-43	0.547	2.667	0.970	2.209	0.503	0.959	0.371	3.497	3.230	-2.153	1.297	0.556	2.644	0.820	0.820	24.561	24.561	21.511	1570	1193	0.503	9.288	6.962	0.400	8.190	2.667	17.716	17.716	16.435
550JS250-54	0.684	3.317	1.206	2.202	0.625	0.956	0.730	4.352	3.221	-2.147	1.294	0.556	3.317	1.043	1.043	31.227	31.227	29.377	3117	1875	0.625	11.554	9.763	0.542	10.559	3.317	22.334	22.334	22.187
550JS250-68	0.858	4.129	1.501	2.194	0.776	0.951	1.454	5.423	3.208	-2.139	1.290	0.555	4.129	1.357	1.357	40.642	40.642	40.041	5350	2534	0.776	14.391	13.625	0.728	13.608	4.129	32.111	32.111	29.669
550JS250-97	1.214	5.747	2.090	2.176	1.077	0.942	4.184	7.559	3.183	-2.123	1.282	0.555	5.747	2.051	2.051	68.578	68.578	62.565	9700	3167	1.077	20.045	20.045	1.077	19.791	5.747	46.849	46.849	41.293
550JS250-118	1.471	6.881	2.502	2.163	1.285	0.935	7.538	9.058	3.163	-2.111	1.275	0.555	6.881	2.502	2.502	85.210	85.210	74.914	11723	3100	1.285	24.010	24.010	1.285	24.010	6.881	57.274	57.274	49.443
550JS350-68	1.001	5.180	1.883	2.275	1.743	1.320	1.696	12.048	4.054	-3.084	1.806	0.421	4.933	1.450	1.450	43.421	43.421	43.539	5350	2534	1.743	23.876	22.948	1.613	22.354	5.144	31.469	31.469	33.109
550JS350-97	1.417	7.228	2.629	2.259	2.434	1.311	4.886	16.898	4.029	-3.069	1.798	0.420	7.160	2.262	2.262	67.718	67.718	70.434	9700	3167	2.434	33.453	33.453	2.434	32.810	7.228	53.935	53.935	51.941
550JS350-118	1.719	8.673	3.154	2.246	2.921	1.304	8.809	20.344	4.012	-3.057	1.792	0.419	8.673	2.976	2.976	89.112	89.112	91.138	11723	3100	2.921	40.250	40.250	2.921	40.250	8.673	67.271	67.271	62.319
600JS250-33	0.438	2.522	0.841	2.400	0.402	0.958	0.175	3.209	3.326	-2.094	1.269	0.604	2.419	0.626	0.626	18.750	18.750	16.312	644	644	0.402	7.257	4.305	0.281	6.049	2.472	14.179	14.179	12.615
600JS250-43	0.569	3.261	1.087	2.394	0.519	0.955	0.386	4.150	3.317	-2.088	1.266	0.604	3.239	0.919	0.919	27.502	27.502	23.662	1432	1235	0.519	9.385	6.495	0.403	8.203	3.261	19.902	19.902	18.114
600JS250-54	0.712	4.058	1.353	2.387	0.644	0.951	0.760	5.163	3.307	-2.082	1.263	0.604	4.058	1.174	1.174	35.140	35.140	32.383	2843	1942	0.644	11.676	9.203	0.546	10.582	4.058	25.073	25.073	24.516
600JS250-68	0.894	5.055	1.685	2.378	0.801	0.947	1.514	6.431	3.295	-2.074	1.259	0.604	5.055	1.526	1.526	45.679	45.679	44.254	5350	2882	0.801	14.544	13.002	0.737	13.650	5.055	36.037	36.037	33.017
600JS250-97	1.265	7.047	2.349	2.361	1.111	0.937	4.360	8.956	3.269	-2.058	1.250	0.604	7.047	2.305	2.305	77.070	77.070	70.137	10653	3964	1.111	20.261	20.261	1.111	19.891	7.047	52.663	52.663	46.417
600JS250-118	1.533	8.447	2.816	2.348	1.327	0.930	7.855	10.726	3.250	-2.045	1.244	0.604	8.447	2.816	2.816	95.893	95.893	84.306	12885	3889	1.327	24.274	24.274	1.327	24.264	8.447	64.455	64.455	55.642
600JS350-68	1.036	6.309	2.103	2.467	1.799	1.318	1.756	14.285	4.106	-3.006	1.771	0.464	6.023	1.628	1.628	48.757	48.757	47.851	5350	2882	1.799	24.160	21.969	1.631	22.421	6.263	35.238	35.238	36.455
600JS350-97	1.468	8.816	2.939	2.451	2.513	1.308	5.061	20.020	4.081	-2.990	1.763	0.463	8.729	2.534	2.534	75.856	75.856	77.711	10653	3964	2.513	33.858	33.858	2.512	32.975	8.816	60.297	60.297	57.903
600JS350-118	1.781	10.588	3.529	2.438	3.017	1.302	9.127	24.090	4.063	-2.978	1.757	0.463	10.588	3.331	3.331	99.720	99.720	100.837	12885	3889	3.017	40.744	40.744	3.017	40.527	10.588	75.265	75.265	69.743
800JS250-43	0.659	6.378	1.595	3.110	0.572	0.931	0.447	7.513	3.746	-1.869	1.159	0.751	6.368	1.225	1.225	36.664	36.664	32.254	1060	1060	0.572	9.679	4.983	0.409	8.238	6.378	29.006	29.006	24.861
800JS250-54	0.825	7.949	1.987	3.103	0.710	0.927	0.881	9.340	3.736	-1.862	1.156	0.752	7.949	1.700	1.700	50.893	50.893	44.463	2102	2102	0.710	12.044	7.286	0.560	10.645	7.949	36.991	36.991	33.939
800JS250-68	1.036	9.923	2.481	3.095	0.883	0.923	1.756	11.624	3.724	-1.854	1.151	0.752	9.923	2.260	2.260	67.676	67.676	61.309	4219	3368	0.883	15.007	10.671	0.763	13.763	9.923	53.065	53.065	46.207
800JS250-97	1.468	13.893	3.473	3.076	1.225	0.914	5.061	16.161	3.698	-1.838	1.142	0.753	13.893	3.409	3.409	113.945	113.945	98.919	10885	6032	1.225	20.919	18.725	1.187	20.155	13.893	77.866	77.866	68.632
800JS250-118	1.781	16.707	4.177	3.063	1.464	0.907	9.127	19.330	3.679	-1.825	1.136	0.754	16.707	4.177	4.177	142.242	142.242	125.055	16182	7301	1.464	25.073	25.017	1.464	24.681	16.707	95.609	95.609	82.536
800JS350-68	1.179	12.165	3.041	3.212	1.990	1.299	1.998	25.787	4.413	-2.733	1.648	0.616	11.749	2.406	2.406	72.028	72.028	65.370	4219	3368	1.990	25.049	18.170	1.681	22.600	12.092	51.562	51.562	50.106
800JS350-97	1.671	17.065	4.266	3.195	2.782	1.290	5.762	36.082	4.388	-2.717	1.640	0.617	16.927	3.711	3.711	111.105	111.105	107.517	10885	6032	2.782	35.121	31.925	2.645	33.415	17.065	87.651	87.651	80.787
800JS350-118	2.029	20.553	5.138	3.183	3.341	1.283	10.398	43.367	4.370	-2.705	1.633	0.617	20.553	4.855	4.855	145.369	145.369	140.775	16182	7301	3.341	42.281	42.281	3.337	41.240	20.553	109.593	109.593	101.536

[1] I_y and M_{ya} are based on the web element in tension

[2] I_y and M_{ya} are based on the web element in compression

Designing JamStud®



1. Basis for Tables

The JamStud Non Load Bearing Opening Allowable Heights tables in this catalog cover the following basic load combination for strength determination using the Allowable Stress Design (ASD) Method (IBC 2009/2012 and ASCE 7-05/10). Listed wind pressures represent calculated design wind pressure (1.0W based on 2009 or 0.6W based on 2012 IBC).

- $D + W_{C\&C}$ (ASCE 7-05)
- $D + 0.6W_{C\&C}$ (ASCE 7-10)

$W_{C\&C}$ is the component & cladding wind load. The Dead Load (D) acting on the stud is assumed minimum and therefore neglected in the tables.

For deflection determination IBC 2009 and IBC 2012-Sec. 1604.3 and AISI-S211-07 Wall Stud Design Standard Sec. A3.1 allow for a reduction factor of 0.7 on the component & cladding wind load ($0.7W_{C\&C}$).

The JamStud Allowable Heights tables are based on the following assumptions:

- 4-Way distribution of lateral wind pressure acting on the opening
- Opening height extends from floor level to the bottom surface of the header
- Jamb member supports wind pressure from opening, wind pressure from half distance to adjacent stud, and header reaction

The input for the tables include: the JamStud section, the opening width (ft.), the opening height (ft.), the design wind pressure ($W_{C\&C}$, psf), and the specified deflection limit. The output from the tables reflects the allowable JamStud height (ft.-in.) and the controlling design factor, whether it is strength or deflection ("f" denotes strength, "d" denotes deflection). An "*" denotes critical web crippling at support of jamb. The use of stiffening clips at supports typically eliminates the web crippling condition.

2. Design Example

Given:

Wind Pressure ($W_{C\&C}$)(ASCE 7-05) **or** ($0.6W_{C\&C}$)(ASCE 7-10)	= 30 psf
Wall Width	= 6.0 in.
Wall Height	= 14.0 ft.
Opening Width	= 8.0 ft.
Opening Height	= 10.0 ft.
Stud Spacing	= 16 in. o.c.
Specified Deflection Limit	= L/360
Typical Stud	= 600S162-43

Bridging (Lateral Bracing) is recommended at a vertical spacing of 60" o.c. with both JamStud flanges connected to the sheathing.

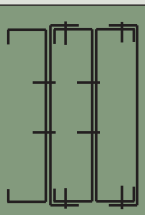
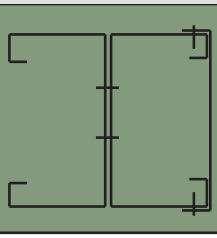
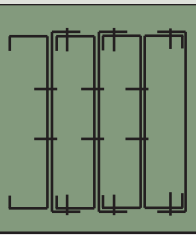
Design Jam:
Go to the JamStud Non Load Bearing Opening Allowable Heights table with 6" stud member, 30 psf wind load, L/360 deflection limit, 8.0 ft. opening width, and 10.0 ft. opening height. Possible JamStud selections from table for 14.0 ft. height are 600JS250-97 (allowable height = 15' 0") and 600JS350-68 (allowable height = 14' 6"). The alternative with typical 43mil "cee" studs result in a built-up section comprised of (3) 600S162-43 capped by (2) 600T162-43.

Conclusion:
The second option, 600JS350-68, is a lighter section with a lesser thickness. Use 600JS350-68 (50ksi) (with design thickness = 0.0713" and F_y = 50 ksi). Allow 2 rows of bridging for the wall (including jamb stud) arranged so that the maximum spacing does not exceed 60 in. (5 ft.).

3. Extra Design Considerations

Strength determination in the "JamStud Non Load Bearing Opening Allowable Heights" tables includes checks for bending and shear capacity values of the stud and a check for lateral end reaction of the stud for web crippling. If tables indicate critical web crippling (denoted with an "*"), a clip may be used at the top and bottom ends of stud to eliminate the web crippling condition.

4. Design Comparison of Jamb Members

Design Case	Typical Wall Stud	JamStud® Solution		Typical Built-Up Jamb	
		Section	Shape	Section**	Shape
$W_{C\&C}$ = 30 psf Wall Width = 6.0" Wall Height = 14.0' Opening Width = 6.0' Opening Height = 10.0' Stud Spacing = 16" o.c. Deflection Limit = L/360	600S162-43	Single 600JS250-68		(2) Studs 600S162-43*, attached at 24" o.c. max. vertically, capped with a closure Track 600T125-43 for window frame attachment	
$W_{C\&C}$ = 20 psf Wall Width = 3.625" Wall Height = 10.0' Opening Width = 8.0' Opening Height = 8.0' Stud Spacing = 16" o.c. Deflection Limit = L/600	362S162-43	Single 362JS350-97		(3) Studs 362S162-43 + (1) middle Track 362T125-43, attached at 24" o.c. max. vertically, capped with a closure Track 362T125-43 for window frame attachment	
$W_{C\&C}$ = 35 psf Wall Width = 8.0" Wall Height = 16.0' Opening Width = 4.0' Opening Height = 10.0' Stud Spacing = 24" o.c. Deflection Limit = L/360	800S162-54	Single 800JS250-54		(2) Studs 800S162-54, attached at 24" o.c. max. vertically, capped with a closure Track 800T125-43 for window frame attachment	
$W_{C\&C}$ = 28 psf Wall Width = 6.0" Wall Height = 16.0' Opening Width = 12.0' Opening Height = 12.0' Stud Spacing = 16" o.c. Deflection Limit = L/360	600S162-54	Double 600JS350-68 attached at 24" o.c. max. vertically, capped with a closure Track 600T125-43 for window frame attachment		(4) Studs 600S162-54 + (2) middle Tracks 600T125-54, attached at 24" o.c. max. vertically, capped with a closure Track 600T125-43 for window frame attachment	

* Web crippling at ends of stud is not satisfied per AISI-Wall Stud Design Std. 2007 Sec. C4. Use VertiClip SL and StiffClip CL at top and bottom ends of stud, respectively, to eliminate web crippling.

** Closure track for window frame attachment was not considered as part of the design cross-section as it does not extend to full height of jamb stud. However, it is up to the EOR to count this track when checking deflection at mid height of jamb stud.

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Heights

Important Notes

1. All values are based on 16" stud spacing o.c. and 1.25" bearing length.
2. Lateral loads have not been modified for strength checks: full loads are applied.
3. Listed wind pressures represent calculated design wind pressure (1.0W based on 2009 or 0.6W based on 2012 IBC).
4. 15 psf and higher wind pressures have been multiplied by 0.7 for deflection determination, in accordance with footnote “f” of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
5. "f" denotes limiting header span is controlled by strength, while "d" denotes limiting header span is controlled by deflection.
6. "*" denotes critical web crippling at support of jamb based on AISI S211-07 Wall Stud Design Std. Sec. B2. Use of stiffening clips at supports eliminate the web crippling condition.
7. Limiting heights are based on continuous support of each flange over the full length of the stud.
8. Strength determination includes checks for bending and shear capacity values of the stud through punched section.
9. The allowable flexural strength for distortional buckling is based on an assumed $k_\phi = 0$.
10. Moment of inertia for deflection is optimized based on the maximum moment at service loads for the listed spans; therefore; span values may be greater than spans based on an effective moment of inertia listed in section property tables.
11. Values for multi-span and load bearing conditions are available. Contact TSN's Technical Support Team for recommendations.

JamStud Member	Opening Width (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																									
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
362JS250-33, 50ksi	4	6	22' 2" d	16' 11" d	14' 5" d	12' 6" f	11' 0" d	9' 2" d	10' 10" f	9' 11" d	8' 4" d	9' 10" f*	9' 2" d	7' 9" d	9' 0" f*	8' 7" d*	7' 4" d	8' 5" f*	8' 2" d*	7' 0" d*	7' 10" f*	7' 10" f*	6' 8" d*	7' 5" f*	7' 5" f*	6' 5" d*	7' 1" f*	7' 1" f*	6' 3" d*
		8	20' 10" d	16' 2" d	13' 11" d	12' 3" d	10' 9" d	9' 0" d	10' 9" f*	9' 9" d*	8' 2" d*	9' 8" f*	9' 0" d*		8' 10" f*	8' 6" d*		8' 2" f*	8' 0" d*											
	6	8	18' 6" d	14' 6" d	12' 7" d	11' 1" f	9' 11" d	8' 6" d*	9' 8" f*	9' 1" d*		8' 9" f*	8' 6" d*		8' 1" f*	8' 1" f*													
		10	18' 0" d	14' 4" d	12' 7" d	11' 1" f*																							
	8	8	16' 5" f	13' 6" d	11' 10" d	10' 4" f*	9' 6" d*	8' 4" d*	9' 2" f*	8' 10" d*		8' 5" f*	8' 4" d*																	
		10	16' 8" f	13' 5" d	11' 11" d	10' 4" f*																							
		12	16' 7" d	13' 6" d																									
	10	8	14' 11" f	12' 9" d	11' 4" d	9' 11" f*	9' 4" d*	8' 3" d*	9' 0" f*	8' 8" d*		8' 4" f*	8' 3" d*																	
		10	15' 6" f	12' 11" d	11' 7" d	10' 1" f*																							
		12	15' 9" f	13' 0" d																									
362JS250-43, 50ksi	4	6	24' 9" d	18' 9" d	15' 11" d	14' 0" d	12' 0" d	10' 0" d	12' 7" d	10' 10" d	9' 1" d	11' 5" f	10' 0" d	8' 5" d	10' 6" f	9' 5" d	7' 11" d	9' 9" f	8' 11" d	7' 7" d	9' 2" f	8' 7" d	7' 3" d	8' 8" f	8' 3" d	7' 0" d	8' 3" f*	7' 11" d*	6' 9" d
		8	23' 4" d	17' 9" d	15' 3" d	13' 6" d	11' 8" d	9' 10" d	12' 2" d	10' 7" d	8' 11" d	11' 3" d	9' 10" d	8' 3" d	10' 5" f	9' 3" d		9' 7" f*	8' 9" d		9' 0" f*	8' 5" d*		8' 6" f*	8' 1" d*		8' 0" f*		
	6	8	20' 9" d	15' 11" d	13' 9" d	12' 3" d	10' 9" d	9' 2" d	11' 2" d	9' 10" d	8' 5" d	10' 2" f	9' 2" d		9' 5" f*	8' 8" d*		8' 9" f*	8' 4" d*		8' 3" f*	8' 0" d*							
		10	20' 0" d	15' 8" d	13' 8" d	12' 3" d	10' 9" d		11' 2" d			10' 2" f*																	
	8	8	19' 0" d	14' 9" d	12' 10" d	11' 7" d	10' 3" d	8' 11" d	10' 6" f	9' 5" d	8' 3" d*	9' 7" f*	8' 11" d*		8' 11" f*	8' 6" d*		8' 5" f*	8' 2" d*		8' 0" f*								
		10	18' 5" d	14' 7" d	12' 10" d	11' 7" d	10' 4" d		10' 6" f*																				
		12	18' 3" d	14' 7" d	12' 10" d																								
	10	8	17' 8" f	13' 11" d	12' 3" d	11' 1" f	9' 11" d	8' 9" d	10' 0" f*	9' 3" d*	8' 3" d*	9' 4" f*	8' 9" d*		8' 9" f*	8' 5" d*		8' 4" f*	8' 2" d*		8' 0" f*								
		10	17' 4" d	13' 11" d	12' 5" d	11' 4" d*	10' 2" d*		10' 3" f*																				
		12	17' 4" d	14' 0" d	12' 6" d																								
362JS250-54, 50ksi	4	6	27' 0" d	20' 5" d	17' 4" d	15' 2" d	13' 0" d	10' 10" d	13' 7" d	11' 8" d	9' 9" d	12' 6" d	10' 10" d	9' 1" d	11' 8" d	10' 2" d	8' 6" d	11' 0" f	9' 7" d	8' 1" d	10' 5" f	9' 2" d	7' 9" d	9' 10" f	8' 10" d	7' 6" d	9' 5" f	8' 6" d	7' 3" d
		8	25' 5" d	19' 4" d	16' 6" d	14' 7" d	12' 7" d	10' 7" d	13' 2" d	11' 5" d	9' 7" d	12' 2" d	10' 7" d	8' 11" d	11' 5" d	9' 11" d	8' 4" d	10' 10" d	9' 5" d		10' 3" f	9' 0" d		9' 8" f	8' 8" d		9' 2" f	8' 4" d	
	6	8	22' 7" d	17' 3" d	14' 10" d	13' 2" d	11' 6" d	9' 10" d	12' 0" d	10' 6" d	9' 0" d	11' 2" d	9' 10" d	8' 5" d	10' 6" d	9' 3" d	8' 0" d	9' 10" f	8' 10" d		9' 4" f	8' 6" d		8' 10" f*	8' 3" d*		8' 5" f*	8' 0" d*	
		10	21' 8" d	16' 10" d	14' 8" d	13' 1" d	11' 6" d		12' 0" d	10' 6" d		11' 2" d			10' 6" d														
	8	8	20' 8" d	15' 11" d	13' 9" d	12' 4" d	10' 11" d	9' 5" d	11' 3" d	10' 0" d	8' 9" d	10' 7" d	9' 5" d	8' 3" d	9' 11" f	9' 0" d		9' 4" f*	8' 7" d		8' 10" f*	8' 4" d*		8' 6" f*	8' 1" d*		8' 2" f*		
		10	19' 11" d	15' 8" d	13' 9" d	12' 5" d	11' 0" d		11' 4" d	10' 1" d		10' 8" d																	
		12	19' 8" d	15' 7" d	13' 9" d	12' 5" d																							
	10	8	19' 3" d	14' 11" d	13' 1" d	11' 9" d	10' 6" d	9' 3" d	10' 10" d	9' 9" d	8' 7" d	10' 2" f	9' 3" d	8' 2" d	9' 7" f*	8' 10" d*		9' 1" f*	8' 6" d*		8' 8" f*	8' 3" d*		8' 5" f*	8' 1" d*		8' 1" f*		
		10	18' 9" d	14' 11" d	13' 2" d	12' 0" d	10' 9" d		11' 1" d	10' 0" d		10' 5" f*																	
		12	18' 6" d	14' 11" d	13' 3" d	12' 1" d																							
362JS250-68, 50ksi	4	6	29' 6" d	22' 3" d	18' 11" d	16' 6" d	14' 1" d	11' 8" d	14' 9" d	12' 8" d	10' 6" d	13' 7" d	11' 8" d	9' 9" d	12' 8" d	10' 11" d	9' 2" d	12' 0" d	10' 4" d	8' 8" d	11' 5" d	9' 10" d	8' 4" d	10' 11" d	9' 6" d	8' 0" d	10' 6" d	9' 2" d	7' 9" d
		8	27' 8" d	21' 0" d	17' 11" d	15' 9" d	13' 7" d	11' 4" d	14' 2" d	12' 3" d	10' 4" d	13' 1" d	11' 4" d	9' 7" d	12' 3" d	10' 8" d	9' 0" d	11' 8" d	10' 2" d	8' 6" d	11' 1" d	9' 8" d	8' 2" d	10' 8" d	9' 4" d		10' 4" d	9' 0" d	
	6	8	24' 8" d	18' 9" d	16' 1" d	14' 3" d	12' 5" d	10' 6" d	12' 10" d	11' 3" d	9' 7" d	11' 11" d	10' 6" d	9' 0" d	11' 3" d	9' 11" d	8' 6" d	10' 9" d	9' 5" d	8' 1" d	10' 3" d	9' 1" d		9' 11" d	8' 9" d		9' 7" f	8' 6" d	
		10	23' 7" d	18' 2" d	15' 9" d	14' 1" d	12' 4" d	10' 6" d	12' 10" d	11' 3" d		11' 11" d	10' 6" d		11' 3" d			10' 9" d			10' 3" d								
	8	8	22' 6" d	17' 2" d	14' 10" d	13' 3" d	11' 8" d	10' 0" d	12' 1" d	10' 8" d	9' 3" d	11' 3" d	10' 0" d	8' 9" d	10' 8" d	9' 6" d	8' 4" d	10' 2" d	9' 1" d	8' 0" d	9' 10" d	8' 10" d		9' 6" f	8' 6" d		9' 1" f	8' 4" d	
		10	21' 7" d	16' 10" d	14' 8" d	13' 3" d	11' 8" d	10' 1" d	12' 1" d	10' 9" d		11' 4" d	10' 1" d		10' 9" d			10' 3" d												
		12	21' 2" d	16' 9" d	14' 8" d	13' 3" d			12' 2" d																				
	10	8	20' 11" d	16' 1" d	14' 0" d	12' 7" d	11' 2" d	9' 9" d	11' 6" d	10' 4" d	9' 1" d	10' 10" d	9' 9" d	8' 7" d	10' 4" d	9' 3" d	8' 3" d	9' 11" d	8' 11" d	8' 0" d	9' 7" f	8' 8" d		9' 2" f*	8' 5" d*		8' 11" f*	8' 3" d*	
		10	20' 2" d	15' 11" d	14' 0" d	12' 9" d	11' 5" d	10' 0" d	11' 9" d	10' 7" d		11' 1" d	10' 0" d		10' 7" d			10' 2" d												
		12	19' 11" d	15' 11" d	14' 1" d	12' 10" d																							
362JS250-97, 50ksi	4	6	33' 7" d	25' 4" d	21' 6" d	18' 9" d	16' 0" d	13' 2" d	16' 9" d	14' 4" d	11' 10" d	15' 4" d	13' 2" d	10' 11" d	14' 4" d	12' 3" d	10' 3" d	13' 6" d	11' 7" d	9' 8" d	12' 10" d	11' 1" d	9' 3" d	12' 3" d	10' 7" d	8' 11" d	11' 10" d	10' 3" d	8' 7" d
		8	31' 7" d	23' 10" d	20' 4" d	17' 10" d	15' 4" d	12' 9" d	16' 0" d	13' 9" d	11' 6" d	14' 9" d	12' 9" d	10' 8" d	13' 9" d	11' 11" d	10' 0" d	13' 0" d	11' 4" d	9' 6" d	12' 5" d	10' 10" d	9' 1" d	11' 11" d	10' 5" d	8' 9" d	11' 6" d	10' 0" d	8' 5" d
	6	8	28' 2" d	21' 3" d	18' 1" d	16' 0" d	13' 10" d	11' 7" d	14' 5" d	12' 6" d	10' 7" d	13' 4" d	11' 7" d	9' 11" d	12' 6" d	11' 0" d	9' 4" d	11' 11" d	10' 5" d	8' 11" d	11' 5" d	10' 0" d	8' 7" d	11' 0" d	9' 8" d	8' 3" d	10' 7" d	9' 4" d	8' 0" d
		10	26' 9" d	20' 5" d	17' 8" d	15' 8" d	13' 8" d	11' 7" d	14' 3" d	12' 6" d	10' 7" d	13' 3" d	11' 7" d		12' 6" d	11' 0" d		11' 10" d	10' 5" d		11' 5" d	10' 0" d		11' 0" d			10' 7" d		
	8	8	25' 9" d	19' 5" d	16' 8" d	14' 9" d	12' 10" d	11' 0" d	13' 5" d	11' 9" d	10' 1" d	12' 5" d	11' 0" d	9' 6" d	11' 9" d	10' 5" d	9' 0" d	11' 3" d	10' 0" d	8' 8" d	10' 9" d	9' 7" d	8' 5" d	10' 5" d	9' 4" d	8' 2" d	10' 1" d	9' 0" d	
		10	24' 6" d	18' 10" d	16' 4" d	14' 8" d	12' 11" d	11' 1" d	13' 4" d	11' 10" d	10' 2" d	12' 6" d	11' 1" d		11' 10" d	10' 6" d		11' 3" d	10' 0" d		10' 10" d			10' 6" d			10' 2" d		
		12	23' 9" d	18' 7" d	16' 3" d	14' 7" d	12' 11" d		13' 5" d			12' 6" d																	
	10	8	23' 10" d	18' 1" d	15' 7" d	13' 11" d	12' 3" d	10' 7" d	12' 8" d	11' 3" d	9' 10" d	11' 10" d	10' 7" d	9' 3" d	11' 3" d	10' 1" d	8' 11" d	10' 9" d	9' 8" d	8' 7" d	10' 5" d	9' 4" d	8' 4" d	9' 11" f	9' 1" d	8' 1" d	9' 10" d	8' 11" d	
		10	22' 10" d	17' 9" d	15' 6" d	14' 0" d	12' 5" d	10' 10" d	12' 10" d	11' 6" d	10' 1" d	12' 1" d	10' 10" d		11' 6" d	10' 4" d		11' 0" d	10' 0" d		10' 8" d			10' 4" d			10' 1" d		
		12	22' 3" d	17' 7" d	15' 6" d	14' 1" d	12' 6" d		12' 11" d			12' 2" d																	

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Heights

Refer to Important Table Notes on Page 9

JamStud Member	Opening Width (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																								
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
362JS350-68, 50ksi	4	6	32' 8" d	24' 8" d	20' 11" d	18' 3" d	15' 7" d	12' 10" d	16' 4" d	13' 11" d	11' 6" d	14' 11" d	12' 10" d	10' 8" d	13' 11" d	12' 0" d	10' 0" d	13' 2" f	11' 4" d	9' 6" d	12' 3" f	10' 9" d	9' 1" d	11' 7" f	10' 4" d	8' 8" d	11' 0" f	10' 0" d	8' 5" d
		8	30' 8" d	23' 2" d	19' 9" d	17' 4" d	14' 11" d	12' 5" d	15' 7" d	13' 5" d	11' 3" d	14' 4" d	12' 5" d	10' 5" d	13' 5" d	11' 8" d	9' 9" d	12' 9" d	11' 1" d	9' 3" d	12' 2" d	10' 7" d	8' 11" d	11' 7" f	10' 2" d	8' 6" d	10' 11" f	9' 9" d	8' 3" d
	6	8	27' 4" d	20' 8" d	17' 8" d	15' 7" d	13' 6" d	11' 4" d	14' 0" d	12' 3" d	10' 4" d	13' 0" d	11' 4" d	9' 8" d	12' 3" d	10' 9" d	9' 2" d	11' 7" f	10' 3" d	8' 9" d	10' 11" f	9' 10" d	8' 5" d	10' 4" f	9' 5" d	8' 1" d	9' 10" f	9' 2" d	
		10	26' 0" d	19' 11" d	17' 3" d	15' 4" d	13' 5" d	11' 4" d	13' 11" d	12' 2" d	10' 5" d	12' 11" d	11' 4" d		12' 2" d	10' 9" d		11' 7" f	10' 3" d		10' 11" f			10' 4" f					
	8	8	25' 0" d	18' 11" d	16' 3" d	14' 5" d	12' 7" d	10' 9" d	13' 1" d	11' 6" d	9' 11" d	12' 2" d	10' 9" d	9' 4" d	11' 5" f	10' 2" d	8' 10" d	10' 9" f	9' 9" d	8' 6" d	10' 2" f	9' 5" d	8' 3" d	9' 8" f	9' 1" d	8' 0" d	9' 4" f	8' 10" d	
		10	23' 9" d	18' 4" d	16' 0" d	14' 4" d	12' 7" d	10' 10" d	13' 1" d	11' 7" d	10' 0" d	12' 3" d	10' 10" d		11' 6" f	10' 3" d		10' 9" f			10' 2" f								
		12	23' 2" d	18' 2" d	15' 11" d	14' 4" d	12' 8" d		13' 1" d			12' 3" d																	
	10	8	23' 2" d	17' 8" d	15' 3" d	13' 7" d	12' 0" d	10' 5" d	12' 5" f	11' 0" d	9' 8" d	11' 6" f	10' 5" d	9' 1" d	10' 10" f	9' 11" d	8' 9" d	10' 3" f	9' 6" d	8' 5" d	9' 9" f	9' 2" d	8' 2" d	9' 5" f*	8' 11" d*	8' 0" d*	9' 1" f*	8' 9" d*	
		10	22' 2" d	17' 4" d	15' 2" d	13' 8" d	12' 2" d	10' 8" d	12' 7" d	11' 3" d		11' 10" d	10' 8" d		11' 1" f	10' 2" d		10' 6" f*			10' 0" f*								
		12	21' 8" d	17' 3" d	15' 2" d	13' 9" d	12' 3" d		12' 8" d																				
362JS350-97, 50ksi	4	6	37' 2" d	28' 1" d	23' 10" d	20' 10" d	17' 8" d	14' 6" d	18' 7" d	15' 10" d	13' 0" d	17' 0" d	14' 6" d	11' 11" d	15' 10" d	13' 6" d	11' 2" d	14' 10" d	12' 9" d	10' 7" d	14' 2" d	12' 2" d	10' 1" d	13' 6" d	11' 7" d	9' 8" d	13' 0" d	11' 2" d	9' 4" d
		8	35' 0" d	26' 5" d	22' 6" d	19' 8" d	16' 10" d	13' 11" d	17' 7" d	15' 1" d	12' 7" d	16' 2" d	13' 11" d	11' 8" d	15' 1" d	13' 1" d	10' 11" d	14' 3" d	12' 4" d	10' 4" d	13' 7" d	11' 10" d	9' 11" d	13' 1" d	11' 4" d	9' 6" d	12' 7" d	10' 11" d	9' 2" d
	6	8	31' 4" d	23' 6" d	20' 0" d	17' 7" d	15' 1" d	12' 8" d	15' 9" d	13' 8" d	11' 6" d	14' 7" d	12' 8" d	10' 9" d	13' 8" d	11' 11" d	10' 1" d	12' 11" d	11' 4" d	9' 8" d	12' 5" d	10' 10" d	9' 3" d	11' 11" d	10' 5" d	8' 11" d	11' 6" d	10' 1" d	8' 8" d
		10	29' 8" d	22' 6" d	19' 4" d	17' 2" d	14' 11" d	12' 7" d	15' 6" d	13' 7" d	11' 6" d	14' 5" d	12' 7" d	10' 9" d	13' 7" d	11' 11" d	10' 1" d	12' 11" d	11' 4" d		12' 4" d	10' 10" d		11' 11" d	10' 6" d		11' 6" d	10' 1" d	
	8	8	28' 7" d	21' 6" d	18' 4" d	16' 2" d	14' 0" d	11' 10" d	14' 7" d	12' 9" d	10' 11" d	13' 6" d	11' 10" d	10' 2" d	12' 9" d	11' 3" d	9' 8" d	12' 2" d	10' 9" d	9' 3" d	11' 8" d	10' 4" d	9' 0" d	11' 3" d	10' 0" d	8' 8" d	10' 11" d	9' 8" d	8' 5" d
		10	27' 1" d	20' 8" d	17' 10" d	15' 11" d	13' 11" d	11' 11" d	14' 6" d	12' 9" d	10' 11" d	13' 6" d	11' 11" d	10' 3" d	12' 9" d	11' 4" d		12' 2" d	10' 10" d		11' 8" d	10' 5" d		11' 4" d	10' 1" d		10' 11" d		
		12	26' 2" d	20' 4" d	17' 8" d	15' 10" d	13' 11" d		14' 6" d	12' 9" d		13' 6" d			12' 9" d			12' 2" d											
	10	8	26' 6" d	20' 0" d	17' 2" d	15' 2" d	13' 3" d	11' 4" d	13' 9" d	12' 2" d	10' 6" d	12' 10" d	11' 4" d	9' 11" d	12' 2" d	10' 9" d	9' 5" d	11' 7" d	10' 4" d	9' 1" d	11' 2" d	10' 0" d	8' 10" d	9' 11" f	9' 8" d	8' 7" d	9' 11" f	9' 5" d	8' 5" d
		10	25' 2" d	19' 5" d	16' 10" d	15' 1" d	13' 4" d	11' 7" d	13' 10" d	12' 4" d	10' 9" d	13' 0" d	11' 7" d	10' 2" d	12' 4" d	11' 1" d		11' 10" d	10' 7" d		11' 5" d	10' 3" d		11' 1" d	10' 0" d		10' 9" d		
		12	24' 5" d	19' 2" d	16' 10" d	15' 2" d	13' 6" d		13' 11" d	12' 5" d		13' 1" d			12' 5" d														
362JS350-118, 50ksi	4	6	39' 11" d	30' 2" d	25' 7" d	22' 4" d	19' 0" d	15' 6" d	19' 11" d	16' 11" d	13' 10" d	18' 2" d	15' 6" d	12' 9" d	16' 11" d	14' 5" d	11' 11" d	15' 11" d	13' 7" d	11' 3" d	15' 1" d	12' 11" d	10' 9" d	14' 5" d	12' 5" d	10' 4" d	13' 10" d	11' 11" d	9' 11" d
		8	37' 7" d	28' 5" d	24' 1" d	21' 1" d	18' 0" d	14' 10" d	18' 10" d	16' 2" d	13' 5" d	17' 3" d	14' 10" d	12' 4" d	16' 2" d	13' 11" d	11' 7" d	15' 3" d	13' 2" d	11' 0" d	14' 6" d	12' 7" d	10' 6" d	13' 11" d	12' 1" d	10' 1" d	13' 5" d	11' 7" d	9' 9" d
	6	8	33' 9" d	25' 3" d	21' 5" d	18' 9" d	16' 1" d	13' 5" d	16' 10" d	14' 6" d	12' 2" d	15' 6" d	13' 5" d	11' 4" d	14' 6" d	12' 7" d	10' 8" d	13' 9" d	12' 0" d	10' 2" d	13' 2" d	11' 6" d	9' 9" d	12' 7" d	11' 1" d	9' 5" d	12' 2" d	10' 8" d	9' 2" d
		10	31' 11" d	24' 2" d	20' 8" d	18' 3" d	15' 10" d	13' 4" d	16' 6" d	14' 4" d	12' 2" d	15' 3" d	13' 4" d	11' 4" d	14' 4" d	12' 7" d	10' 8" d	13' 8" d	12' 0" d	10' 2" d	13' 1" d	11' 6" d		12' 7" d	11' 1" d		11' 11" f	10' 8" d	
	8	8	30' 10" d	23' 1" d	19' 8" d	17' 3" d	14' 11" d	12' 7" d	15' 6" d	13' 6" d	11' 6" d	14' 4" d	12' 7" d	10' 9" d	13' 6" d	11' 10" d	10' 2" d	12' 10" d	11' 4" d	9' 9" d	12' 4" d	10' 10" d	9' 5" d	11' 10" d	10' 6" d	9' 1" d	9' 11" f	9' 11" f	8' 10" d
		10	29' 1" d	22' 1" d	19' 0" d	16' 11" d	14' 9" d	12' 7" d	15' 4" d	13' 6" d	11' 6" d	14' 3" d	12' 7" d	10' 10" d	13' 6" d	11' 11" d	10' 3" d	12' 10" d	11' 4" d		11' 11" f	10' 11" d		11' 11" f	10' 7" d		11' 6" d	10' 3" d	
		12	28' 0" d	21' 7" d	18' 9" d	16' 9" d	14' 9" d	12' 7" d	15' 4" d	13' 6" d		14' 3" d	12' 7" d		13' 6" d			12' 10" d			12' 4" d								
	10	8	28' 7" d	21' 5" d	18' 4" d	16' 2" d	14' 1" d	11' 11" d	14' 7" d	12' 10" d	11' 0" d	13' 7" d	11' 11" d	10' 4" d	12' 10" d	11' 4" d	9' 10" d	12' 2" d	10' 10" d	9' 6" d	10' 8" f	10' 6" d	9' 2" d	9' 11" f	9' 11" f	8' 11" d	9' 11" f	9' 10" d	8' 9" d
		10	27' 0" d	20' 8" d	17' 11" d	16' 0" d	14' 1" d	12' 2" d	14' 7" d	12' 11" d	11' 3" d	13' 8" d	12' 2" d	10' 7" d	12' 11" d	11' 7" d	10' 2" d	11' 11" f	11' 1" d		11' 11" f	10' 9" d		11' 7" d	10' 5" d		11' 3" d	10' 2" d	
		12	26' 1" d	20' 4" d	17' 9" d	16' 0" d	14' 2" d	12' 3" d	14' 8" d	13' 0" d		13' 9" d	12' 3" d		13' 0" d			12' 6" d			12' 0" d								
400JS250-33, 50ksi	4	6	24' 3" d	18' 6" d	15' 9" d	13' 4" f	11' 11" d	9' 11" d	11' 5" f*	10' 9" d	9' 0" d	10' 4" f*	9' 11" d*	8' 4" d	9' 6" f*	9' 3" d*	7' 10" d*	8' 10" f*	8' 10" f*	7' 6" d*	8' 4" f*	8' 4" f*	7' 2" d*	7' 10" f*	7' 10" f*	6' 11" d*	7' 6" f*	7' 6" f*	6' 8" d*
		8	22' 10" d	17' 7" d	15' 1" d	13' 2" f*	11' 7" d	9' 9" d	11' 5" f*	10' 6" d*	8' 10" d	10' 3" f*	9' 9" d*	8' 2" d*	9' 4" f*	9' 1" d*		8' 8" f*	8' 8" f*		8' 1" f*	8' 1" f*							
	6	8	20' 0" f	15' 9" d	13' 8" d	11' 8" f	10' 8" d	9' 1" d	10' 3" f*	9' 9" d*	8' 4" d*	9' 3" f*	9' 1" d*		8' 6" f*	8' 6" f*		8' 0" f*	8' 0" f*										
		10	19' 6" d	15' 6" d	13' 6" d	11' 8" f*	10' 8" d*		10' 3" f*																				
	8	8	17' 5" f	14' 6" d	12' 9" d	10' 9" f*	10' 2" d*	8' 10" d*	9' 7" f*	9' 4" d*	8' 2" d*	8' 10" f*	8' 10" f*		8' 3" f*	8' 3" f*													
		10	17' 6" f	14' 5" d	12' 9" d	10' 10" f*	10' 3" d*																						
		12	17' 10" f	14' 5" d	12' 9" d																								
	10	8	15' 9" f	13' 8" d	12' 1" d	10' 3" f*	9' 10" d*	8' 8" d*	9' 4" f*	9' 2" d*	8' 2" d*	8' 8" f*	8' 8" f*		8' 2" f*	8' 2" f*													
		10	16' 2" f	13' 9" d	12' 4" d	10' 6" f*	10' 1" d*																						
		12	16' 7" f	13' 10" d	12' 5" d																								
400JS250-43, 50ksi	4	6	27' 2" d	20' 6" d	17' 5" d	15' 3" d	13' 1" d	10' 10" d	13' 8" f	11' 9" d	9' 10" d	12' 1" f	10' 10" d	9' 1" d	11' 1" f	10' 2" d	8' 7" d	10' 4" f	9' 8" d	8' 2" d	9' 8" f*	9' 3" d	7' 9" d	9' 2" f*	8' 10" d*	7' 6" d	8' 9" f*	8' 7" d*	7' 3" d
		8	25' 6" d	19' 5" d	16' 7" d	14' 8" d	12' 8" d	10' 7" d	13' 2" d	11' 5" d	9' 7" d	12' 1" f	10' 7" d	8' 11" d	11' 0" f*	10' 0" d	8' 5" d	10' 2" f*	9' 6" d*	8' 0" d*	9' 6" f*	9' 1" d*		9' 0" f*	8' 8" d*		8' 6" f*	8' 5" d*	
	6	8	22' 9" d	17' 4" d	14' 11" d	13' 3" d	11' 7" d	9' 10" d	11' 11" f	10' 7" d	9' 0" d	10' 9" f	9' 10" d	8' 5" d*	9' 11" f*	9' 4" d*	8' 0" d*	9' 3" f*	8' 11" d*		8' 8" f*	8' 7" d*		8' 3" f*	8' 3" f*				
		10	21' 9" d	16' 11" d	14' 9" d	13' 2" d	11' 7" d		11' 11" f	10' 7" d		10' 9" f*																	
	8	8	20' 9" d	15' 11" d	13' 10" d	12' 4" f	10' 11" d	9' 5" d	11' 0" f	10' 1" d	8' 9" d	10' 0" f*	9' 5" d*	8' 3" d*	9' 4" f*	9' 0" d*		8' 9" f*	8' 8" d*		8' 4" f*	8' 4" f*		8' 0" f*	8' 0" f*				
		10	20' 0" d	15' 8" d	13' 9" d	12' 5" d	11' 0" d		11' 0" f*	10' 2" d*		10' 1" f*																	
		12	19' 8" d	15' 8" d	13' 9" d	12' 5" d*																							
	10	8	18' 10" f	15' 0" d	13' 1" d	11' 6" f	10' 6" d	9' 3" d	10' 5" f*	9' 9" d*	8' 8" d*	9' 8" f*	9' 3" d*	8' 3" d*	9' 1" f*	8' 10" d*		8' 8" f*	8' 6" d*		8' 3" f*	8' 3" f*		8' 0" f*	8' 0" f*				
		10	18' 7" f	14' 11" d	13' 3" d	11' 11" f*	10' 10" d*		10' 8" f*	10' 1" d*																			
		12	18' 7" d	15' 0" d	13' 4" d	12' 0" f*																							
400JS250-54, 50ksi	4	6	29' 7" d	22' 4" d	19' 0" d	16' 7" d	14' 2" d	11' 9" d	14' 10" d	12' 9" d	10' 7" d	13' 7" d	11' 9" d	9' 9" d	12' 8" f	11' 0" d	9' 2" d	11' 8" f	10' 5" d	8' 9" d	10' 11" f	9' 11" d	8' 4" d	10' 5" f	9' 6" d	8' 0" d	9' 11" f	9' 2" d	7' 9" d
		8	27' 10" d	21' 1" d	18' 0" d	15' 10" d	13' 8" d	11' 5" d	14' 3" d	12' 4" d	10' 4" d	13' 2" d	11' 5" d	9' 7" d	12' 4" d	10' 9" d	9' 0" d	11' 8" f	10' 2" d	8' 7" d	10' 11" f	9' 9" d	8' 2" d	10' 3" f	9' 4" d		9' 9" f	9' 0" d	
	6	8	24' 9" d	18' 10" d	16' 1" d	14' 3" d	12' 5" d	10' 6" d	12' 11" d	11' 4" d	9' 8" d	12' 0" d	10' 6" d	9' 0" d	11' 2" f	9' 11" d	8' 6" d	10' 5" f	9' 6" d	8' 2" d	9' 10" f	9' 1" d		9' 4" f*	8' 10" d*		8' 10" f*	8' 6" d*	
		10	23' 8" d	18' 3" d	15' 10" d	14' 2" d	12' 5" d	10' 6" d	12' 10" d	11' 4" d		12' 0" d	10' 6" d		11' 2" f			10' 5" f*											
	8	8	22' 8" d	17' 3" d	14' 11" d	13' 3" d	11' 8" d	10' 0" d	12' 1" d	10' 8" d	9' 3" d	11' 2" f	10' 0" d	8' 9" d	10' 5" f	9' 6" d	8' 4" d	9' 9" f*	9' 2" d*	8' 0" d*	9' 3" f*	8' 10" d*		8' 10" f*	8' 7" d*		8' 6" f*	8' 4" d*	
		10	21' 8" d	16' 11" d	14' 9" d	13' 3" d	11' 9" d	10' 1" d	12' 2" d	10' 9" d		11' 3" f	10' 1" d		10' 5" f*														
		12	21' 3" d	16' 9" d	14' 9" d	13' 3" d			12' 2" d																				
	10	8	21' 0" d	16' 2" d	14' 1" d	12' 7" d	11' 2" d	9' 9" d	11' 6" f	10' 4" d	9' 1" d	10' 7" f	9' 9" d	8' 7" d	10' 0" f*	9' 4" d*	8' 3" d*	9' 5" f*	9' 0" d*	8' 0" d*	9' 0" f*	8' 8" d*		8' 8" f*	8' 6" d*		8' 5" f*	8' 3" d*	
		10	20' 4" d	16' 0" d	14' 1" d	12' 9" d	11' 5" d	10' 0" d	11' 9" d	10' 7" d		10' 11" f*	10' 0" d*		10' 2" f*														
		12	20' 0" d	16' 0" d	14' 2" d	12' 10" d																							

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Heights

Refer to Important Table Notes on Page 9

JamStud Member	Opening Width (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																									
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400JS250-68, 50ksi	4	6	32' 4" d	24' 5" d	20' 9" d	18' 1" d	15' 5" d	12' 8" d	16' 2" d	13' 10" d	11' 5" d	14' 10" d	12' 8" d	10' 6" d	13' 10" d	11' 10" d	9' 11" d	13' 0" d	11' 3" d	9' 5" d	12' 5" d	10' 8" d	9' 0" d	11' 10" d	10' 3" d	8' 7" d	11' 4" f	9' 11" d	8' 4" d
		8	30' 4" d	23' 0" d	19' 7" d	17' 2" d	14' 9" d	12' 4" d	15' 5" d	13' 4" d	11' 2" d	14' 3" d	12' 4" d	10' 4" d	13' 4" d	11' 7" d	9' 8" d	12' 7" d	10' 11" d	9' 3" d	12' 0" d	10' 6" d	8' 10" d	11' 7" d	10' 1" d	8' 6" d	11' 2" d	9' 8" d	8' 2" d
	6	8	27' 1" d	20' 5" d	17' 6" d	15' 5" d	13' 4" d	11' 3" d	13' 11" d	12' 2" d	10' 4" d	12' 11" d	11' 3" d	9' 7" d	12' 2" d	10' 8" d	9' 1" d	11' 6" d	10' 2" d	8' 8" d	11' 1" d	9' 9" d	8' 4" d	10' 7" f	9' 5" d	8' 1" d	10' 1" f	9' 1" d	
		10	25' 9" d	19' 9" d	17' 1" d	15' 2" d	13' 3" d	11' 3" d	13' 10" d	12' 1" d	10' 4" d	12' 10" d	11' 3" d		12' 1" d	10' 8" d		11' 6" d	10' 2" d		11' 1" d			10' 7" f			10' 1" f		
	8	8	24' 9" d	18' 9" d	16' 1" d	14' 3" d	12' 6" d	10' 8" d	13' 0" d	11' 5" d	9' 10" d	12' 1" d	10' 8" d	9' 3" d	11' 5" d	10' 2" d	8' 10" d	10' 11" d	9' 8" d	8' 6" d	10' 5" f	9' 4" d	8' 2" d	9' 11" f	9' 1" d		9' 6" f	8' 10" d	
		10	23' 7" d	18' 3" d	15' 10" d	14' 2" d	12' 6" d	10' 9" d	13' 0" d	11' 6" d		12' 1" d	10' 9" d		11' 6" d	10' 3" d		11' 0" d			10' 5" f								
		12	23' 0" d	18' 0" d	15' 9" d	14' 2" d	12' 6" d		13' 0" d			12' 2" d																	
	10	8	23' 0" d	17' 6" d	15' 1" d	13' 6" d	11' 11" d	10' 4" d	12' 4" d	10' 11" d	9' 7" d	11' 6" d	10' 4" d	9' 1" d	10' 11" d	9' 10" d	8' 8" d	10' 5" f	9' 5" d	8' 5" d	10' 0" f	9' 2" d	8' 2" d	9' 7" f*	8' 11" d*		9' 3" f*	8' 8" d*	
		10	22' 0" d	17' 2" d	15' 1" d	13' 7" d	12' 1" d	10' 7" d	12' 6" d	11' 3" d		11' 9" d	10' 7" d		11' 3" d	10' 1" d		10' 9" f			10' 2" f*								
		12	21' 6" d	17' 1" d	15' 1" d	13' 8" d	12' 2" d		12' 7" d																				
400JS250-97, 50ksi	4	6	36' 10" d	27' 10" d	23' 7" d	20' 7" d	17' 6" d	14' 4" d	18' 4" d	15' 8" d	12' 10" d	16' 10" d	14' 4" d	11' 10" d	15' 8" d	13' 5" d	11' 1" d	14' 9" d	12' 7" d	10' 6" d	14' 0" d	12' 0" d	10' 0" d	13' 5" d	11' 6" d	9' 7" d	12' 10" d	11' 1" d	9' 3" d
		8	34' 8" d	26' 2" d	22' 3" d	19' 6" d	16' 8" d	13' 10" d	17' 5" d	15' 0" d	12' 6" d	16' 0" d	13' 10" d	11' 6" d	15' 0" d	12' 11" d	10' 10" d	14' 2" d	12' 3" d	10' 3" d	13' 6" d	11' 8" d	9' 10" d	12' 11" d	11' 3" d	9' 5" d	12' 6" d	10' 10" d	9' 1" d
	6	8	31' 0" d	23' 3" d	19' 10" d	17' 5" d	15' 0" d	12' 7" d	15' 8" d	13' 6" d	11' 5" d	14' 5" d	12' 7" d	10' 7" d	13' 6" d	11' 10" d	10' 0" d	12' 10" d	11' 3" d	9' 7" d	12' 3" d	10' 9" d	9' 2" d	11' 10" d	10' 4" d	8' 10" d	11' 5" d	10' 0" d	8' 7" d
		10	29' 5" d	22' 4" d	19' 2" d	17' 0" d	14' 9" d	12' 6" d	15' 5" d	13' 5" d	11' 5" d	14' 3" d	12' 6" d	10' 8" d	13' 5" d	11' 10" d	10' 1" d	12' 9" d	11' 3" d		12' 3" d	10' 9" d		11' 10" d	10' 5" d		11' 5" d	10' 1" d	
	8	8	28' 4" d	21' 3" d	18' 2" d	16' 0" d	13' 11" d	11' 9" d	14' 6" d	12' 8" d	10' 10" d	13' 5" d	11' 9" d	10' 1" d	12' 8" d	11' 2" d	9' 7" d	12' 0" d	10' 8" d	9' 3" d	11' 7" d	10' 3" d	8' 11" d	11' 2" d	9' 11" d	8' 8" d	10' 10" d	9' 7" d	8' 5" d
		10	26' 10" d	20' 6" d	17' 8" d	15' 9" d	13' 10" d	11' 10" d	14' 4" d	12' 8" d	10' 11" d	13' 5" d	11' 10" d	10' 2" d	12' 8" d	11' 3" d		12' 1" d	10' 9" d		11' 7" d	10' 4" d		11' 3" d	10' 0" d		10' 11" d		
		12	25' 11" d	20' 2" d	17' 7" d	15' 9" d	13' 10" d		14' 4" d	12' 8" d		13' 5" d			12' 8" d			12' 1" d											
	10	8	26' 3" d	19' 10" d	17' 0" d	15' 1" d	13' 2" d	11' 3" d	13' 8" d	12' 0" d	10' 5" d	12' 9" d	11' 3" d	9' 10" d	12' 0" d	10' 9" d	9' 5" d	11' 6" d	10' 3" d	9' 0" d	11' 1" d	9' 11" d	8' 9" d	10' 9" d	9' 8" d	8' 6" d	10' 5" d	9' 5" d	8' 4" d
		10	24' 11" d	19' 2" d	16' 8" d	15' 0" d	13' 3" d	11' 6" d	13' 9" d	12' 3" d	10' 8" d	12' 10" d	11' 6" d	10' 1" d	12' 3" d	11' 0" d		11' 9" d	10' 7" d		11' 4" d	10' 2" d		11' 0" d			10' 8" d		
		12	24' 2" d	19' 0" d	16' 8" d	15' 0" d	13' 4" d		13' 10" d	12' 4" d		13' 0" d			12' 4" d														
400JS350-68, 50ksi	4	6	35' 8" d	27' 0" d	22' 11" d	20' 0" d	17' 0" d	13' 11" d	17' 10" d	15' 2" d	12' 6" d	16' 3" d	13' 11" d	11' 6" d	15' 2" d	13' 0" d	10' 9" d	14' 1" f	12' 3" d	10' 3" d	13' 1" f	11' 8" d	9' 9" d	12' 3" f	11' 2" d	9' 4" d	11' 8" f	10' 9" d	9' 0" d
		8	33' 7" d	25' 4" d	21' 7" d	18' 11" d	16' 2" d	13' 5" d	16' 11" d	14' 7" d	12' 2" d	15' 7" d	13' 5" d	11' 3" d	14' 7" d	12' 7" d	10' 7" d	13' 9" d	11' 11" d	10' 0" d	13' 0" f	11' 5" d	9' 7" d	12' 3" f	10' 11" d	9' 2" d	11' 8" f	10' 7" d	8' 11" d
	6	8	30' 0" d	22' 7" d	19' 3" d	16' 11" d	14' 7" d	12' 3" d	15' 2" d	13' 2" d	11' 2" d	14' 0" d	12' 3" d	10' 4" d	13' 1" f	11' 6" d	9' 10" d	12' 3" f	10' 11" d	9' 4" d	11' 6" f	10' 6" d	9' 0" d	10' 11" f	10' 1" d	8' 8" d	10' 5" f	9' 10" d	8' 5" d
		10	28' 6" d	21' 8" d	18' 8" d	16' 6" d	14' 5" d	12' 2" d	15' 0" d	13' 1" d	11' 2" d	13' 11" d	12' 2" d	10' 5" d	13' 1" d	11' 6" d		12' 3" f	10' 11" d		11' 6" f	10' 6" d		10' 11" f	10' 2" d		10' 5" f		
	8	8	27' 5" d	20' 8" d	17' 8" d	15' 7" d	13' 6" d	11' 6" d	14' 1" f	12' 4" d	10' 7" d	12' 10" f	11' 6" d	9' 11" d	12' 0" f	10' 11" d	9' 5" d	11' 3" f	10' 5" d	9' 0" d	10' 8" f	10' 0" d	8' 9" d	10' 2" f	9' 8" d	8' 5" d	9' 9" f	9' 5" d	8' 3" d
		10	26' 0" d	19' 11" d	17' 3" d	15' 4" d	13' 6" d	11' 7" d	14' 0" d	12' 4" d	10' 8" d	13' 1" d	11' 7" d	10' 0" d	12' 1" f	11' 0" d		11' 4" f	10' 6" d		10' 8" f	10' 1" d		10' 2" f*					
		12	25' 2" d	19' 7" d	17' 1" d	15' 4" d	13' 6" d		14' 0" d	12' 5" d		13' 1" d			12' 1" f														
	10	8	25' 5" d	19' 2" d	16' 6" d	14' 8" f	12' 10" d	11' 0" d	13' 0" f	11' 9" d	10' 2" d	12' 0" f	11' 0" d	9' 8" d	11' 3" f	10' 6" d	9' 2" d	10' 8" f	10' 1" d	8' 10" d	10' 2" f	9' 9" d	8' 7" d	9' 9" f*	9' 5" d*	8' 5" d*	9' 5" f*	9' 2" d*	8' 2" d*
		10	24' 2" d	18' 8" d	16' 3" d	14' 8" d	13' 0" d	11' 3" d	13' 5" d	12' 0" d	10' 6" d	12' 6" f	11' 3" d		11' 7" f	10' 9" d		10' 11" f	10' 4" d*		10' 5" f*	10' 0" d*		10' 0" f*					
		12	23' 6" d	18' 6" d	16' 3" d	14' 8" d	13' 1" d		13' 6" d	12' 1" d		12' 6" f																	
400JS350-97, 50ksi	4	6	40' 8" d	30' 9" d	26' 2" d	22' 10" d	19' 4" d	15' 10" d	20' 3" d	17' 3" d	14' 2" d	18' 7" d	15' 10" d	13' 0" d	17' 3" d	14' 9" d	12' 2" d	16' 3" d	13' 10" d	11' 6" d	15' 5" d	13' 2" d	10' 11" d	14' 9" d	12' 7" d	10' 6" d	14' 2" d	12' 2" d	10' 1" d
		8	38' 4" d	28' 11" d	24' 7" d	21' 6" d	18' 4" d	15' 1" d	19' 2" d	16' 5" d	13' 7" d	17' 7" d	15' 1" d	12' 7" d	16' 5" d	14' 2" d	11' 10" d	15' 6" d	13' 5" d	11' 2" d	14' 9" d	12' 9" d	10' 8" d	14' 2" d	12' 3" d	10' 3" d	13' 7" d	11' 10" d	9' 11" d
	6	8	34' 5" d	25' 9" d	21' 10" d	19' 2" d	16' 5" d	13' 8" d	17' 2" d	14' 9" d	12' 5" d	15' 9" d	13' 8" d	11' 6" d	14' 9" d	12' 10" d	10' 10" d	14' 0" d	12' 2" d	10' 4" d	13' 4" d	11' 8" d	9' 11" d	12' 10" d	11' 3" d	9' 7" d	12' 5" d	10' 10" d	9' 3" d
		10	32' 6" d	24' 7" d	21' 0" d	18' 7" d	16' 1" d	13' 7" d	16' 9" d	14' 7" d	12' 4" d	15' 6" d	13' 7" d	11' 6" d	14' 7" d	12' 9" d	10' 10" d	13' 10" d	12' 2" d	10' 4" d	13' 3" d	11' 8" d		12' 9" d	11' 3" d		12' 4" d	10' 10" d	
	8	8	31' 5" d	23' 6" d	20' 0" d	17' 7" d	15' 2" d	12' 9" d	15' 10" d	13' 9" d	11' 8" d	14' 7" d	12' 9" d	10' 11" d	13' 9" d	12' 0" d	10' 4" d	13' 0" d	11' 6" d	9' 11" d	12' 6" d	11' 0" d	9' 6" d	12' 0" d	10' 8" d	9' 3" d	11' 8" d	10' 4" d	9' 0" d
		10	29' 8" d	22' 6" d	19' 4" d	17' 2" d	15' 0" d	12' 9" d	15' 7" d	13' 8" d	11' 8" d	14' 6" d	12' 9" d	11' 0" d	13' 8" d	12' 1" d	10' 5" d	13' 0" d	11' 6" d		12' 6" d	11' 1" d		12' 1" d	10' 9" d		11' 8" d	10' 5" d	
		12	28' 7" d	22' 0" d	19' 1" d	17' 1" d	15' 0" d	12' 9" d	15' 6" d	13' 8" d		14' 6" d	12' 9" d		13' 8" d	12' 1" d		13' 1" d			12' 6" d			12' 1" d					
	10	8	29' 2" d	21' 10" d	18' 8" d	16' 5" d	14' 3" d	12' 2" d	14' 10" d	13' 0" d	11' 2" d	13' 9" d	12' 2" d	10' 6" d	13' 0" d	11' 6" d	10' 0" d	12' 5" d	11' 0" d	9' 7" d	11' 11" d	10' 7" d	9' 4" d	11' 6" d	10' 3" d	9' 0" d	11' 2" f	10' 0" d	8' 10" d
		10	27' 7" d	21' 0" d	18' 2" d	16' 3" d	14' 3" d	12' 4" d	14' 10" d	13' 1" d	11' 5" d	13' 10" d	12' 4" d	10' 9" d	13' 1" d	11' 9" d	10' 3" d	12' 7" d	11' 3" d		12' 1" d	10' 10" d		11' 9" d	10' 7" d		11' 5" d	10' 3" d	
		12	26' 7" d	20' 8" d	18' 1" d	16' 3" d	14' 4" d	12' 5" d	14' 10" d	13' 3" d		13' 11" d	12' 5" d		13' 3" d			12' 8" d			12' 2" d								
400JS350-118, 50ksi	4	6	43' 8" d	33' 1" d	28' 1" d	24' 6" d	20' 9" d	16' 11" d	21' 10" d	18' 6" d	15' 2" d	19' 11" d	16' 11" d	13' 11" d	18' 6" d	15' 9" d	13' 0" d	17' 5" d	14' 10" d	12' 3" d	16' 6" d	14' 1" d	11' 8" d	15' 9" d	13' 6" d	11' 2" d	15' 2" d	13' 0" d	10' 9" d
		8	41' 2" d	31' 1" d	26' 5" d	23' 1" d	19' 8" d	16' 2" d	20' 7" d	17' 7" d	14' 6" d	18' 10" d	16' 2" d	13' 5" d	17' 7" d	15' 1" d	12' 7" d	16' 7" d	14' 3" d	11' 11" d	15' 9" d	13' 7" d	11' 4" d	15' 1" d	13' 0" d	10' 11" d	14' 6" d	12' 7" d	10' 6" d
	6	8	37' 1" d	27' 9" d	23' 6" d	20' 6" d	17' 6" d	14' 6" d	18' 4" d	15' 9" d	13' 2" d	16' 10" d	14' 6" d	12' 2" d	15' 9" d	13' 8" d	11' 6" d	14' 11" d	12' 11" d	10' 11" d	14' 2" d	12' 4" d	10' 6" d	13' 8" d	11' 11" d	10' 1" d	13' 2" d	11' 6" d	9' 9" d
		10	35' 0" d	26' 5" d	22' 6" d	19' 10" d	17' 1" d	14' 4" d	17' 10" d	15' 6" d	13' 1" d	16' 6" d	14' 4" d	12' 2" d	15' 6" d	13' 6" d	11' 6" d	14' 8" d	12' 10" d	10' 11" d	14' 1" d	12' 4" d	10' 6" d	13' 6" d	11' 10" d	10' 1" d	13' 1" d	11' 6" d	
	8	8	33' 11" d	25' 4" d	21' 6" d	18' 10" d	16' 2" d	13' 6" d	16' 10" d	14' 7" d	12' 4" d	15' 6" d	13' 6" d	11' 6" d	14' 7" d	12' 9" d	10' 10" d	13' 10" d	12' 1" d	10' 5" d	13' 3" d	11' 7" d	10' 0" d	12' 9" d	11' 3" d	9' 8" d	12' 4" d	10' 10" d	9' 5" d
		10	31' 11" d	24' 1" d	20' 8" d	18' 3" d	15' 11" d	13' 6" d	16' 6" d	14' 6" d	12' 4" d	15' 4" d	13' 6" d	11' 7" d	14' 6" d	12' 9" d	10' 11" d	13' 9" d	12' 2" d	10' 6" d	13' 2" d	11' 8" d	10' 1" d	12' 9" d	11' 3" d		12' 4" d	10' 11" d	
		12	30' 8" d	23' 5" d	20' 3" d	18' 1" d	15' 10" d	13' 6" d	16' 5" d	14' 6" d	12' 4" d	15' 4" d	13' 6" d		14' 6" d	12' 9" d		13' 9" d	12' 2" d		13' 3" d			12' 9" d			12' 4" d		
	10	8	31' 6" d	23' 6" d	20' 0" d	17' 7" d	15' 2" d	12' 10" d	15' 10" d	13' 9" d	11' 9" d	14' 7" d	12' 10" d	11' 0" d	13' 9" d	12' 1" d	10' 6" d	13' 1" d	11' 7" d	10' 1" d	12' 7" d	11' 2" d	9' 9" d	12' 1" d	10' 9" d	9' 5" d	11' 9" d	10' 6" d	9' 2" d
		10	29' 8" d	22' 6" d	19' 4" d	17' 3" d	15' 1" d	12' 11" d	15' 8" d	13' 10" d	11' 11" d	14' 7" d	12' 11" d	11' 3" d	13' 10" d	12' 4" d	10' 9" d	13' 3" d	11' 10" d	10' 4" d	12' 9" d	11' 5" d	10' 0" d	11' 11" f	11' 0" d		11' 11" f	10' 9" d	
		12	28' 6" d	22' 0" d	19' 1" d	17' 2" d	15' 2" d	13' 1" d	15' 8" d	13' 11" d	12' 0" d	14' 8" d	13' 1" d		13' 11" d	12' 5" d		13' 4" d			12' 10" d			12' 5" d			12' 0" d		
600JS250-33, 50ksi	4	6	35' 5" d	26' 11" d	22' 10" d	17' 4" f*	17' 0" d*	13' 11" d*	14' 6" f*	14' 6" f*	12' 6" d*	12' 9" f*	12' 9" f*	11' 6" d*	11' 8" f*	11' 8" f*	10' 9" d*	10' 10" f*	10' 10" f*	10' 2" d*	10' 2" f*	10' 2" f*	9' 9" d*	9' 8" f*	9' 8" f*	9' 4" d*	9' 2" f*	9' 2" f*	9' 0" d*
		8	33' 3" d	25' 4" d	21' 7" d	16' 6" f*	16' 2" d*	13' 5" d*	14' 3" f*	14' 3" f*	12' 1" d*	12' 9" f*	12' 9" f*	11' 3" d*	11' 7" f*	11' 7" f*	10' 7" d*	10' 9" f*	10' 9" f*	10' 0" d*	10' 1" f*	10' 1" f*	9' 7" d*	9' 6" f*	9' 6" f*	9' 2" d*	9' 0" f*	9' 0" f*	8' 10" d*
	6	8	26' 7" f	22' 6" d	19' 2" d	14' 2" f*	14' 2" f*	12' 3" d*	12' 6" f*	12' 6" f*	11' 1" d*	11' 3" f*	11' 3" f*	10' 4" d*	10' 5" f*	10' 5" f*	9' 9" d*	9' 8" f*	9' 8" f*	9' 4" d*	9' 1" f*	9' 1" f*	9' 0" d*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*
		10	24' 11" f	21' 7" d	18' 7" d	14' 4" f*	14' 4" f*	12' 2" d*	12' 6" f*	12' 6" f*	11' 1" d*	11' 4" f*	11' 4" f*	10' 4" d*	10' 5" f*	10' 5" f*														
	8	8	22' 8" f	20' 6" d	17' 7" d	12' 10" f*	12' 10" f*	11' 6" d*	11' 6" f*	11' 6" f*	10' 7" d*	10' 4" f*	10' 4" f*	9' 11" d*	9' 5" f*	9' 5" f*	9' 5" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*
		10	21' 8" f	19' 9" d	17' 3" d	13' 2" f*	13' 2" f*	11' 7" d*	11' 7" f*	11' 7" f*	10' 8" d*	10' 6" f*	10' 6" f*	10' 0" d*															
		12	21' 8" f	19' 6" d	17' 1" d	13' 2" f*	13' 2" f*																						
	10	8	20' 1" f	19' 1" d	16' 6" d	11' 11" f*	11' 11" f*	11' 0" d*	10' 6" f*	10' 6" f*	10' 2" d*	9' 4" f*	9' 4" f*	9' 4" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*	8' 0" f*
		10	19' 7" f	18' 7" d	16' 3" d	12' 6" f*	12' 6" f*	11' 3" d*	11' 2" f*	11' 2" f*	10' 6" d*	10' 0" f*	10' 0" f*																
		12	20' 0" f	18' 5" d	16' 3" d	12' 6" f*	12' 6" f*																						

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Heights

Refer to Important Table Notes on Page 9

JamStud Member	Opening Width (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																									
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
600JS250-43, 50ksi	4	6	39' 6" d	29' 11" d	25' 5" d	22' 2" d*	18' 10" d	15' 4" d	18' 4" f*	16' 9" d*	13' 9" d	15' 11" f*	15' 4" d*	12' 8" d	14' 3" f*	14' 3" f*	11' 10" d*	13' 0" f*	13' 0" f*	11' 2" d*	12' 2" f*	12' 2" f*	10' 8" d*	11' 5" f*	11' 5" f*	10' 3" d*	10' 11" f*	10' 11" f*	9' 10" d*
		8	37' 3" d	28' 1" d	23' 10" d	20' 4" f*	17' 10" d	14' 9" d	17' 3" f*	16' 0" d*	13' 3" d	15' 4" f*	14' 9" d*	12' 3" d*	14' 0" f*	13' 9" d*	11' 6" d*	13' 0" f*	13' 0" f*	10' 11" d*	12' 1" f*	12' 1" f*	10' 5" d*	11' 5" f*	11' 5" f*	10' 0" d*	10' 10" f*	10' 10" f*	9' 8" d*
	6	8	33' 5" d	25' 0" d	21' 3" d	17' 0" f	16' 0" d	13' 4" d	14' 8" f*	14' 5" d*	12' 1" d	13' 4" f*	13' 4" f*	11' 3" d*	12' 4" f*	12' 4" f*	10' 7" d*	11' 6" f*	11' 6" f*	10' 1" d*	10' 10" f*	10' 10" f*	9' 8" d*	10' 3" f*	10' 3" f*	9' 4" d*	9' 9" f*	9' 9" f*	9' 1" d*
		10	31' 7" f	23' 11" d	20' 6" d	17' 1" f	15' 8" d	13' 3" d	14' 11" f*	14' 3" d*	12' 1" d	13' 5" f*	13' 3" d*	11' 3" d*	12' 4" f*	12' 4" f*	10' 7" d*	11' 6" f*	11' 6" f*	10' 1" d*	10' 10" f*	10' 10" f*		10' 3" f*	10' 3" f*				
	8	8	29' 2" f	22' 10" d	19' 5" d	15' 1" f*	14' 9" d	12' 5" d	13' 3" f*	13' 3" f*	11' 5" d	12' 2" f*	12' 2" f*	10' 8" d*	11' 4" f*	11' 4" f*	10' 1" d*	10' 8" f*	10' 8" f*	9' 8" d*	10' 1" f*	10' 1" f*	9' 4" d*	9' 7" f*	9' 7" f*	9' 0" d*	9' 3" f*	9' 3" f*	8' 10" d*
		10	27' 0" f	21' 11" d	18' 10" d	15' 6" f*	14' 8" d	12' 6" d	13' 8" f*	13' 4" d*	11' 5" d*	12' 4" f*	12' 4" f*	10' 9" d*	11' 5" f*	11' 5" f*	10' 2" d*	10' 8" f*	10' 8" f*		10' 1" f*	10' 1" f*							
		12	26' 1" f	21' 5" d	18' 7" d	15' 7" f*	14' 8" d*	12' 6" d*	13' 8" f*	13' 5" d*		12' 4" f*	12' 4" f*																
	10	8	25' 6" f	21' 3" d	18' 2" d	13' 10" f*	13' 10" f*	11' 10" d	12' 4" f*	12' 4" f*	10' 11" d*	11' 5" f*	11' 5" f*	10' 3" d*	10' 9" f*	10' 9" f*	9' 10" d*	10' 2" f*	10' 2" f*	9' 5" d*	9' 8" f*	9' 8" f*	9' 2" d*	9' 4" f*	9' 4" f*	8' 11" d*	9' 0" f*	9' 0" f*	8' 8" d*
		10	24' 0" f	20' 6" d	17' 9" d	14' 6" f*	14' 0" d*	12' 1" d*	12' 11" f*	12' 10" d*	11' 2" d*	11' 10" f*	11' 10" f*	10' 7" d*	11' 0" f*	11' 0" f*	10' 1" d*	10' 5" f*	10' 5" f*										
		12	23' 8" f	20' 2" d	17' 8" d	14' 7" f*	14' 1" d*	12' 2" d*	12' 11" f*	12' 11" f*																		
600JS250-54, 50ksi	4	6	43' 1" d	32' 8" d	27' 9" d	24' 2" d	20' 6" d	16' 9" d	21' 6" d	18' 4" d	14' 11" d	19' 6" f	16' 9" d	13' 9" d	17' 3" f*	15' 7" d	12' 10" d	15' 8" f*	14' 8" d	12' 1" d	14' 5" f*	13' 11" d*	11' 6" d	13' 6" f*	13' 4" d*	11' 1" d	12' 9" f*	12' 9" f*	10' 8" d
		8	40' 8" d	30' 9" d	26' 1" d	22' 9" d	19' 5" d	16' 0" d	20' 4" d	17' 4" d	14' 4" d	18' 1" f	16' 0" d	13' 3" d	16' 5" f*	14' 11" d	12' 5" d	15' 2" f*	14' 1" d*	11' 9" d	14' 2" f*	13' 5" d*	11' 3" d	13' 4" f*	12' 11" d*	10' 10" d*	12' 8" f*	12' 5" d*	10' 5" d*
	6	8	36' 7" d	27' 5" d	23' 2" d	20' 3" d	17' 4" d	14' 5" d	17' 3" f	15' 7" d	13' 0" d	15' 4" f	14' 5" d	12' 1" d	14' 1" f*	13' 6" d	11' 5" d	13' 2" f*	12' 10" d*	10' 10" d	12' 5" f*	12' 3" d*	10' 5" d	11' 10" f*	11' 9" d*	10' 0" d*	11' 3" f*	11' 3" f*	9' 8" d*
		10	34' 7" d	26' 1" d	22' 3" d	19' 7" d	16' 11" d	14' 3" d	17' 4" f*	15' 4" d	12' 11" d	15' 7" f*	14' 3" d	12' 1" d	14' 4" f*	13' 5" d	11' 4" d	13' 4" f*	12' 9" d*	10' 10" d*	12' 6" f*	12' 2" d*	10' 5" d*	11' 10" f*	11' 9" d*	10' 0" d*	11' 3" f*	11' 3" f*	
	8	8	33' 6" d	25' 0" d	21' 2" d	17' 8" f	16' 0" d	13' 4" d	15' 3" f	14' 5" d	12' 2" d	13' 9" f	13' 4" d	11' 4" d	12' 9" f*	12' 7" d*	10' 9" d	12' 1" f*	12' 0" d*	10' 4" d*	11' 5" f*	11' 5" f*	9' 11" d*	10' 11" f*	10' 11" f*	9' 7" d*	10' 5" f*	10' 5" f*	9' 4" d*
		10	31' 7" d	23' 10" d	20' 5" d	17' 8" f	15' 9" d	13' 4" d	15' 8" f	14' 4" d	12' 3" d	14' 2" f	13' 4" d	11' 5" d	13' 1" f*	12' 7" d*	10' 10" d*	12' 3" f*	12' 1" d*	10' 5" d*	11' 6" f*	11' 6" f*	10' 0" d*	11' 0" f*	11' 0" f*		10' 6" f*	10' 6" f*	
		12	30' 3" d	23' 2" d	20' 1" d	17' 11" d	15' 8" d	13' 4" d	15' 9" f	14' 4" d	12' 3" d*	14' 3" f*	13' 4" d*		13' 1" f*	12' 8" d*		12' 3" f*	12' 1" d*										
	10	8	31' 1" d	23' 3" d	19' 9" d	16' 0" f	15' 0" d	12' 8" d	13' 11" f	13' 7" d	11' 8" d	12' 9" f	12' 8" d	10' 11" d	11' 11" f*	11' 11" f*	10' 5" d*	11' 4" f*	11' 4" f*	10' 0" d*	10' 10" f*	10' 10" f*	9' 8" d*	10' 5" f*	10' 5" f*	9' 4" d*	10' 0" f*	10' 0" f*	9' 1" d*
		10	29' 2" f	22' 3" d	19' 2" d	16' 4" f	14' 11" d	12' 10" d	14' 8" f	13' 8" d	11' 10" d	13' 5" f*	12' 10" d*	11' 2" d*	12' 5" f*	12' 2" d*	10' 8" d*	11' 9" f*	11' 8" d*	10' 3" d*	11' 1" f*	11' 1" f*		10' 8" f*	10' 8" f*		10' 3" f*	10' 3" f*	
		12	28' 0" f	21' 9" d	18' 11" d	16' 9" f	15' 0" d	12' 11" d	14' 9" f*	13' 9" d*		13' 5" f*	12' 11" d*		12' 6" f*	12' 3" d*													
600JS250-68, 50ksi	4	6	47' 0" d	35' 8" d	30' 4" d	26' 5" d	22' 5" d	18' 3" d	23' 6" d	20' 0" d	16' 4" d	21' 6" d	18' 3" d	14' 11" d	20' 0" d	17' 0" d	13' 11" d	18' 9" d	16' 0" d	13' 2" d	17' 7" f	15' 2" d	12' 6" d	16' 3" f	14' 6" d	12' 0" d	15' 3" f	13' 11" d	11' 6" d
		8	44' 5" d	33' 7" d	28' 6" d	24' 10" d	21' 2" d	17' 4" d	22' 2" d	18' 11" d	15' 7" d	20' 4" d	17' 4" d	14' 4" d	18' 11" d	16' 2" d	13' 5" d	17' 10" f	15' 4" d	12' 9" d	16' 7" f	14' 7" d	12' 2" d	15' 8" f	13' 11" d	11' 8" d	14' 10" f*	13' 5" d	11' 3" d
	6	8	40' 1" d	30' 0" d	25' 5" d	22' 2" d	18' 10" d	15' 7" d	19' 9" d	16' 11" d	14' 0" d	18' 1" f	15' 7" d	13' 0" d	16' 5" f	14' 7" d	12' 3" d	15' 2" f	13' 10" d	11' 7" d	14' 3" f	13' 2" d	11' 2" d	13' 7" f	12' 8" d	10' 9" d	12' 11" f	12' 3" d	10' 4" d
		10	37' 11" d	28' 6" d	24' 3" d	21' 3" d	18' 4" d	15' 4" d	19' 1" d	16' 6" d	13' 11" d	17' 8" d	15' 4" d	12' 11" d	16' 6" d	14' 5" d	12' 2" d	15' 5" f	13' 8" d	11' 7" d	14' 6" f	13' 1" d	11' 2" d	13' 8" f	12' 7" d	10' 9" d	13' 0" f	12' 2" d	10' 5" d*
	8	8	36' 9" d	27' 5" d	23' 2" d	20' 3" d	17' 4" d	14' 5" d	17' 11" f	15' 7" d	13' 1" d	15' 11" f	14' 5" d	12' 2" d	14' 7" f	13' 6" d	11' 6" d	13' 7" f	12' 10" d	11' 0" d	12' 11" f	12' 4" d	10' 7" d	12' 4" f	11' 11" d	10' 2" d	11' 10" f*	11' 6" d*	9' 11" d
		10	34' 7" d	26' 0" d	22' 2" d	19' 7" d	16' 11" d	14' 4" d	17' 8" d	15' 5" d	13' 1" d	16' 3" f	14' 4" d	12' 3" d	15' 1" f	13' 6" d	11' 7" d	14' 1" f	12' 10" d	11' 1" d	13' 3" f	12' 4" d	10' 8" d*	12' 7" f*	11' 11" d*	10' 3" d*	12' 0" f*	11' 7" d*	10' 0" d*
		12	33' 1" d	25' 2" d	21' 8" d	19' 3" d	16' 10" d	14' 4" d	17' 6" d	15' 4" d	13' 1" d	16' 3" d	14' 4" d	12' 3" d	15' 1" f	13' 6" d		14' 1" f*	12' 11" d*		13' 3" f*	12' 5" d*		12' 7" f*			12' 0" f*		
	10	8	34' 2" d	25' 5" d	21' 6" d	18' 10" d	16' 3" d	13' 7" d	16' 2" f	14' 8" d	12' 5" d	14' 6" f	13' 7" d	11' 7" d	13' 5" f	12' 10" d	11' 0" d	12' 7" f	12' 3" d	10' 7" d	12' 0" f	11' 9" d	10' 2" d	11' 7" f*	11' 4" d*	9' 11" d*	11' 2" f*	11' 0" d*	9' 8" d*
		10	32' 1" d	24' 2" d	20' 9" d	18' 4" d	16' 0" d	13' 8" d	16' 6" f	14' 8" d	12' 7" d	15' 2" f	13' 8" d	11' 10" d	14' 1" f	13' 0" d	11' 3" d	13' 3" f*	12' 5" d*	10' 10" d*	12' 7" f*	12' 0" d*	10' 6" d*	12' 0" f*	11' 7" d*	10' 2" d*	11' 6" f*	11' 3" d*	
		12	30' 8" d	23' 6" d	20' 5" d	18' 3" d	16' 0" d	13' 9" d	16' 7" d	14' 8" d	12' 8" d	15' 4" f	13' 9" d		14' 2" f*	13' 1" d*		13' 4" f*	12' 6" d*		12' 7" f*	12' 1" d*		12' 0" f*					
600JS250-97, 50ksi	4	6	53' 7" d	40' 9" d	34' 8" d	30' 3" d	25' 8" d	20' 11" d	26' 11" d	22' 10" d	18' 7" d	24' 7" d	20' 11" d	17' 0" d	22' 10" d	19' 5" d	15' 10" d	21' 6" d	18' 3" d	14' 11" d	20' 4" d	17' 4" d	14' 2" d	19' 5" d	16' 6" d	13' 6" d	18' 7" d	15' 10" d	13' 0" d
		8	50' 9" d	38' 5" d	32' 7" d	28' 5" d	24' 2" d	19' 9" d	25' 4" d	21' 6" d	17' 8" d	23' 2" d	19' 9" d	16' 3" d	21' 6" d	18' 5" d	15' 2" d	20' 3" d	17' 4" d	14' 4" d	19' 3" d	16' 6" d	13' 8" d	18' 5" d	15' 9" d	13' 1" d	17' 8" d	15' 2" d	12' 7" d
	6	8	46' 1" d	34' 6" d	29' 1" d	25' 4" d	21' 6" d	17' 7" d	22' 6" d	19' 2" d	15' 10" d	20' 7" d	17' 7" d	14' 7" d	19' 2" d	16' 5" d	13' 8" d	18' 1" d	15' 6" d	13' 0" d	17' 2" d	14' 10" d	12' 5" d	16' 5" d	14' 2" d	11' 11" d	15' 10" d	13' 8" d	11' 6" d
		10	43' 6" d	32' 7" d	27' 8" d	24' 2" d	20' 8" d	17' 2" d	21' 8" d	18' 7" d	15' 7" d	19' 11" d	17' 2" d	14' 5" d	18' 7" d	16' 1" d	13' 7" d	17' 7" d	15' 3" d	12' 11" d	16' 10" d	14' 7" d	12' 4" d	16' 1" d	14' 1" d	11' 11" d	15' 7" d	13' 7" d	11' 6" d
	8	8	42' 4" d	31' 6" d	26' 7" d	23' 2" d	19' 8" d	16' 2" d	20' 7" d	17' 7" d	14' 8" d	18' 11" d	16' 2" d	13' 7" d	17' 7" d	15' 2" d	12' 9" d	16' 7" d	14' 5" d	12' 2" d	15' 10" f	13' 9" d	11' 8" d	14' 11" f	13' 3" d	11' 3" d	14' 3" f	12' 9" d	10' 11" d
		10	39' 10" d	29' 9" d	25' 3" d	22' 2" d	19' 0" d	15' 11" d	19' 11" d	17' 2" d	14' 6" d	18' 4" d	15' 11" d	13' 6" d	17' 2" d	15' 0" d	12' 9" d	16' 4" d	14' 3" d	12' 2" d	15' 7" d	13' 8" d	11' 9" d	15' 0" d	13' 2" d	11' 4" d	14' 6" d	12' 9" d	11' 0" d
		12	37' 11" d	28' 7" d	24' 6" d	21' 8" d	18' 10" d	15' 11" d	19' 7" d	17' 1" d	14' 6" d	18' 2" d	15' 11" d	13' 6" d	17' 1" d	15' 0" d	12' 10" d	16' 3" d	14' 3" d	12' 3" d	15' 7" d	13' 9" d		15' 0" d	13' 3" d		14' 6" d	12' 10" d	
	10	8	39' 5" d	29' 3" d	24' 8" d	21' 6" d	18' 4" d	15' 3" d	19' 2" d	16' 6" d	13' 10" d	17' 7" d	15' 3" d	12' 10" d	16' 6" d	14' 4" d	12' 2" d	15' 5" f	13' 7" d	11' 7" d	14' 5" f	13' 0" d	11' 2" d	13' 9" f	12' 7" d	10' 10" d	13' 2" f	12' 2" d	10' 6" d
		10	36' 11" d	27' 8" d	23' 6" d	20' 8" d	17' 11" d	15' 2" d	18' 8" d	16' 3" d	13' 10" d	17' 3" d	15' 2" d	13' 0" d	16' 3" d	14' 4" d	12' 4" d	15' 6" d	13' 8" d	11' 10" d	14' 10" d	13' 2" d	11' 5" d	14' 4" d	12' 9" d	11' 1" d	13' 10" f	12' 4" d	10' 9" d
		12	35' 2" d	26' 8" d	22' 11" d	20' 4" d	17' 9" d	15' 2" d	18' 6" d	16' 3" d	13' 11" d	17' 2" d	15' 2" d	13' 1" d	16' 3" d	14' 5" d	12' 5" d	15' 6" d	13' 9" d		14' 11" d	13' 3" d		14' 5" d	12' 10" d		13' 11" f	12' 5" d	
600JS250-118, 50ksi	4	6	57' 5" d	43' 9" d	37' 3" d	32' 7" d	27' 8" d	22' 6" d	29' 0" d	24' 7" d	20' 0" d	26' 6" d	22' 6" d	18' 3" d	24' 7" d	20' 10" d	17' 0" d	23' 1" d	19' 7" d	16' 0" d	21' 11" d	18' 7" d	15' 2" d	20' 10" d	17' 9" d	14' 6" d	20' 0" d	17' 0" d	13' 11" d
		8	54' 7" d	41' 4" d	35' 1" d	30' 7" d	26' 0" d	21' 2" d	27' 3" d	23' 2" d	18' 11" d	24' 11" d	21' 2" d	17' 4" d	23' 2" d	19' 9" d	16' 3" d	21' 9" d	18' 7" d	15' 4" d	20' 8" d	17' 8" d	14' 7" d	19' 9" d	16' 10" d	14' 0" d	18' 11" d	16' 3" d	13' 5" d
	6	8	49' 8" d	37' 2" d	31' 5" d	27' 4" d	23' 1" d	18' 10" d	24' 3" d	20' 7" d	16' 11" d	22' 2" d	18' 10" d	15' 7" d	20' 7" d	17' 7" d	14' 7" d	19' 5" d	16' 7" d	13' 10" d	18' 5" d	15' 10" d	13' 2" d	17' 7" d	15' 2" d	12' 8" d	16' 11" d	14' 7" d	12' 3" d
		10	46' 11" d	35' 2" d	29' 9" d	26' 0" d	22' 2" d	18' 4" d	23' 2" d	19' 11" d	16' 7" d	21' 3" d	18' 4" d	15' 4" d	19' 11" d	17' 2" d	14' 5" d	18' 9" d	16' 3" d	13' 8" d	17' 11" d	15' 7" d	13' 1" d	17' 2" d	14' 11" d	12' 7" d	16' 7" d	14' 5" d	12' 2" d
	8	8	45' 9" d	34' 1" d	28' 8" d	24' 11" d	21' 2" d	17' 4" d	22' 2" d	18' 10" d	15' 7" d	20' 3" d	17' 4" d	14' 5" d	18' 10" d	16' 2" d	13' 7" d	17' 9" d	15' 4" d	12' 11" d	16' 11" d	14' 7" d	12' 4" d	16' 2" d	14' 1" d	11' 11" d	15' 6" f	13' 7" d	11' 6" d
		10	43' 0" d	32' 1" d	27' 2" d	23' 9" d	20' 4" d	16' 11" d	21' 3" d	18' 4" d	15' 5" d	19' 7" d	16' 11" d	14' 4" d	18' 4" d	15' 11" d	13' 6" d	17' 4" d	15' 2" d	12' 11" d	16' 7" d	14' 6" d	12' 4" d	15' 11" d	14' 0" d	11' 11" d	15' 5" d	13' 6" d	11' 7" d
		12	40' 11" d	30' 9" d	26' 3" d	23' 1" d	20' 0" d	16' 10" d	20' 10" d	18' 2" d	15' 4" d	19' 4" d	16' 10" d	14' 4" d	18' 2" d	15' 11" d	13' 6" d	17' 3" d	15' 1" d	12' 11" d	16' 6" d	14' 6" d	12' 5" d	15' 11" d	14' 0" d	12' 0" d	15' 4" d	13' 6" d	
	10	8	42' 8" d	31' 7" d	26' 7" d	23' 2" d	19' 8" d	16' 3" d	20' 7" d	17' 7" d	14' 8" d	18' 11" d	16' 3" d	13' 7" d	17' 7" d	15' 3" d	12' 10" d	16' 8" d	14' 5" d	12' 3" d	15' 9" f	13' 10" d	11' 9" d	14' 11" f	13' 3" d	11' 4" d	14' 2" f	12' 10" d	11' 0" d
		10	39' 11" d	29' 9" d	25' 3" d	22' 2" d	19' 1" d	16' 1" d	19' 11" d	17' 3" d	14' 8" d	18' 5" d	16' 1" d	13' 8" d	17' 3" d	15' 2" d	13' 0" d	16' 5" d	14' 5" d	12' 5" d	15' 9" d	13' 10" d	12' 0" d	15' 2" d	13' 5" d	11' 7" d	14' 8" d	13' 0" d	11' 3" d
		12	37' 11" d	28' 7" d	24' 6" d	21' 8" d	18' 11" d	16' 0" d	19' 8" d	17' 2" d	14' 9" d	18' 3" d	16' 0" d	13' 9" d	17' 2" d	15' 2" d	13' 1" d	16' 5" d	14' 6" d	12' 6" d	15' 9" d	13' 11" d	12' 1" d	15' 2" d	13' 6" d		14' 9" d	13' 1" d	
600JS350-68, 50ksi	4	6	51' 3" d	39' 0" d	33' 2" d	28' 11" d	24' 7" d	20' 0" d	25' 9" d	21' 10" d	17' 10" d	23' 6" d	20' 0" d	16' 3" d	21' 10" d	18' 7" d	15' 2" d	20' 3" f	17' 5" d	14' 3" d	18' 6" f	16' 7" d	13' 7" d	17' 1" f	15' 10" d	13' 0" d	16' 0" f	15' 2" d	12' 6" d
		8	48' 7" d	36' 9" d	31' 2" d	27' 2" d	23' 1" d	18' 11" d	24' 3" d	20' 7" d	16' 11" d	22' 2" d	18' 11" d	15' 7" d	20' 6" f	17' 7" d	14' 7" d	18' 8" f	16' 7" d	13' 9" d	17' 4" f	15' 10" d	13' 1" d	16' 3" f	15' 1" d	12' 7" d	15' 5" f	14' 7" d	12' 2" d
	6	8	44' 0" d	32' 11" d	27' 10" d	24' 3" d	20' 7" d	16' 11" d	21' 7" d	18' 5" d	15' 2" d	18' 11" f	16' 11" d	14' 0" d	17' 1" f	15' 9" d	13' 2" d	15' 9" f	14' 11" d	12' 6" d	14' 9" f	14' 3" d	12' 0" d	14' 0" f	13' 8" d	11' 6" d	13' 5" f	13' 2" d*	11' 1" d
		10	41' 7" d	31' 2" d	26' 5" d	23' 2" d	19' 10" d	16' 6" d	20' 9" d	17' 11" d	15' 0" d	18' 8" f	16' 6" d	13' 11" d	17' 2" f	15' 6" d	13' 1" d	16' 0" f	14' 9" d	12' 6" d	15' 0" f	14' 1" d	11' 11" d	14' 3" f	13' 7" d	11' 6" d	13' 6" f	13' 1" d	11' 2" d
	8	8	40' 5" d	30' 1" d	25' 5" d	22' 1" d	18' 10" d	15' 7" d	18' 9" f	16' 11" d	14' 1" d	16' 7" f	15' 7" d	13' 1" d	15' 1" f	14' 7" d	12' 4" d	14' 1" f	13' 10" d	11' 9" d	13' 4" f	13' 3" d	11' 3" d	12' 9" f*	12' 9" f*	10' 11" d	12' 3" f*	12' 3" f*	10' 7" d
		10	37' 11" d	28' 5" d	24' 2" d	21' 3" d	18' 4" d	15' 4" d	18' 6" f	16' 7" d	14' 0" d	16' 10" f	15' 4" d	13' 1" d	15' 7" f	14' 6" d	12' 4" d	14' 7" f	13' 9" d	11' 10" d	13' 8" f*	13' 3" d	11' 4" d	13' 0" f*	12' 9" d*	11' 0" d*	12' 5" f*	12' 4" d*	10' 8" d*
		12	36' 2" d	27' 5" d	23' 6" d	20' 10" d	18' 1" d	15' 4" d	18' 10" d	16' 6" d	14' 0" d	17' 0" f	15' 4" d	13' 1" d	15' 8" f	14' 6" d	12' 5" d	14' 7" f*	13' 10" d*		13' 9" f*	13' 3" d*		13' 0" f*	12' 9" d*		12' 5" f*	12' 5" f*	
	10	8	37' 6" d	27' 11" d	23' 7" d	19' 10" f	17' 7" d	14' 8" d	16' 10" f	15' 10" d	13' 4" d	15' 1" f	14' 8" d	12' 5" d	13' 10" f	13' 9" d	11' 9" d	13' 0" f	13' 0" f	11' 3" d	12' 4" f	12' 4" f	10' 10" d	11' 10" f*	11' 10" f*	10' 6" d*	11' 6" f*	11' 6" f*	10' 2" d*
		10	35' 1" d	26' 5" d	22' 6" d	19' 5" f	17' 3" d	14' 8" d	17' 0" f	15' 8" d	13' 5" d	15' 7" f	14' 8" d	12' 7" d	14' 6" f	13' 10" d	12' 0" d	13' 8" f*	13' 3" d*	11' 6" d*	13' 0" f*	12' 9" d*	11' 1" d*	12' 4" f*	12' 4" f*	10' 9" d*	11' 10" f*	11' 10" f*	10' 6" d*
		12	33' 6" d	25' 7" d	22' 0" d	19' 7" d	17' 2" d	14' 8" d	17' 6" f	15' 8" d	13' 6" d	15' 11" f	14' 8" d	12' 8" d*	14' 8" f*	13' 11" d*	12' 1" d*	13' 9" f*	13' 4" d*		13' 0" f*	12' 10" d*		12' 5" f*	12' 5" f*				

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Heights

Refer to Important Table Notes on Page 9

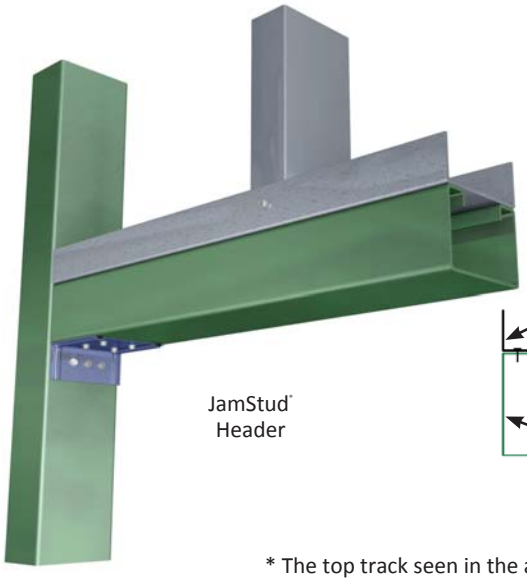
JamStud Member	Opening Width (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																									
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
600JS350-97, 50ksi	4	6	58' 5" d	44' 6" d	37' 11" d	33' 1" d	28' 1" d	22' 10" d	29' 6" d	25' 0" d	20' 4" d	26' 11" d	22' 10" d	18' 7" d	25' 0" d	21' 3" d	17' 4" d	23' 6" d	19' 11" d	16' 3" d	22' 3" d	18' 11" d	15' 5" d	21' 3" d	18' 0" d	14' 9" d	20' 4" d	17' 4" d	14' 2" d
		8	55' 6" d	42' 1" d	35' 8" d	31' 2" d	26' 5" d	21' 6" d	27' 9" d	23' 6" d	19' 3" d	25' 4" d	21' 6" d	17' 8" d	23' 6" d	20' 1" d	16' 6" d	22' 2" d	18' 11" d	15' 7" d	21' 0" d	17' 11" d	14' 10" d	20' 1" d	17' 2" d	14' 2" d	19' 3" d	16' 6" d	13' 8" d
	6	8	50' 7" d	37' 10" d	31' 11" d	27' 9" d	23' 6" d	19' 2" d	24' 8" d	20' 11" d	17' 2" d	22' 7" d	19' 2" d	15' 10" d	20' 11" d	17' 11" d	14' 10" d	19' 9" d	16' 10" d	14' 0" d	18' 9" f	16' 1" d	13' 5" d	17' 6" f	15' 5" d	12' 10" d	16' 7" f	14' 10" d	12' 5" d
		10	47' 10" d	35' 9" d	30' 3" d	26' 5" d	22' 6" d	18' 7" d	23' 7" d	20' 2" d	16' 10" d	21' 8" d	18' 7" d	15' 7" d	20' 2" d	17' 5" d	14' 7" d	19' 1" d	16' 6" d	13' 11" d	18' 2" d	15' 9" d	13' 4" d	17' 5" d	15' 2" d	12' 10" d	16' 10" f	14' 7" d	12' 4" d
		8	46' 7" d	34' 8" d	29' 2" d	25' 4" d	21' 6" d	17' 7" d	22' 6" d	19' 2" d	15' 10" d	20' 7" d	17' 7" d	14' 8" d	19' 2" d	16' 5" d	13' 9" d	17' 7" f	15' 7" d	13' 1" d	16' 5" f	14' 10" d	12' 6" d	15' 6" f	14' 3" d	12' 1" d	14' 9" f	13' 9" d	11' 8" d
	8	10	43' 9" d	32' 8" d	27' 8" d	24' 2" d	20' 8" d	17' 2" d	21' 7" d	18' 7" d	15' 7" d	19' 11" d	17' 2" d	14' 6" d	18' 7" d	16' 2" d	13' 8" d	17' 7" d	15' 4" d	13' 1" d	16' 9" f	14' 8" d	12' 6" d	15' 11" f	14' 2" d	12' 1" d	15' 3" f	13' 8" d	11' 9" d
		12	41' 8" d	31' 3" d	26' 8" d	23' 6" d	20' 4" d	17' 1" d	21' 2" d	18' 5" d	15' 7" d	19' 7" d	17' 1" d	14' 6" d	18' 5" d	16' 1" d	13' 9" d	17' 6" d	15' 4" d	13' 1" d	16' 9" d	14' 8" d	12' 7" d	16' 1" f	14' 2" d	12' 1" d	15' 3" f	13' 9" d	
		8	43' 5" d	32' 2" d	27' 1" d	23' 6" d	20' 0" d	16' 6" d	20' 11" d	17' 11" d	14' 11" d	19' 1" f	16' 6" d	13' 10" d	17' 3" f	15' 5" d	13' 0" d	15' 11" f	14' 8" d	12' 5" d	14' 11" f	14' 0" d	11' 11" d	14' 2" f	13' 6" d	11' 6" d	13' 6" f	13' 0" d	11' 2" d
	10	10	40' 8" d	30' 4" d	25' 8" d	22' 6" d	19' 4" d	16' 3" d	20' 3" d	17' 6" d	14' 10" d	18' 8" d	16' 3" d	13' 10" d	17' 5" f	15' 4" d	13' 2" d	16' 4" f	14' 7" d	12' 7" d	15' 6" f	14' 0" d	12' 1" d	14' 10" f	13' 7" d	11' 9" d	14' 3" f	13' 2" d	11' 5" d
		12	38' 7" d	29' 1" d	24' 11" d	22' 0" d	19' 2" d	16' 3" d	19' 11" d	17' 5" d	14' 11" d	18' 6" d	16' 3" d	13' 11" d	17' 5" d	15' 5" d	13' 3" d	16' 7" d	14' 8" d	12' 8" d	15' 10" f	14' 1" d	12' 3" d	15' 1" f	13' 8" d		14' 5" f	13' 3" d	
600JS350-118, 50ksi	4	6	62' 8" d	47' 10" d	40' 9" d	35' 8" d	30' 3" d	24' 7" d	31' 9" d	26' 11" d	21' 11" d	29' 0" d	24' 7" d	20' 0" d	26' 11" d	22' 10" d	18' 7" d	25' 4" d	21' 6" d	17' 6" d	24' 0" d	20' 4" d	16' 7" d	22' 10" d	19' 5" d	15' 10" d	21' 11" d	18' 7" d	15' 2" d
		8	59' 8" d	45' 3" d	38' 5" d	33' 6" d	28' 5" d	23' 2" d	29' 10" d	25' 4" d	20' 8" d	27' 3" d	23' 2" d	18' 11" d	25' 4" d	21' 7" d	17' 8" d	23' 10" d	20' 3" d	16' 8" d	22' 7" d	19' 3" d	15' 10" d	21' 7" d	18' 5" d	15' 2" d	20' 8" d	17' 8" d	14' 7" d
	6	8	54' 6" d	40' 11" d	34' 6" d	30' 0" d	25' 4" d	20' 7" d	26' 7" d	22' 7" d	18' 5" d	24' 3" d	20' 7" d	16' 11" d	22' 7" d	19' 2" d	15' 10" d	21' 2" d	18' 1" d	15' 0" d	20' 1" d	17' 2" d	14' 3" d	19' 2" d	16' 5" d	13' 8" d	18' 5" d	15' 10" d	13' 2" d
		10	51' 7" d	38' 7" d	32' 8" d	28' 5" d	24' 2" d	19' 11" d	25' 4" d	21' 8" d	17' 11" d	23' 3" d	19' 11" d	16' 7" d	21' 8" d	18' 7" d	15' 7" d	20' 5" d	17' 7" d	14' 9" d	19' 5" d	16' 10" d	14' 1" d	18' 7" d	16' 2" d	13' 7" d	17' 11" d	15' 7" d	13' 2" d
		8	50' 5" d	37' 6" d	31' 7" d	27' 5" d	23' 2" d	18' 11" d	24' 4" d	20' 7" d	16' 11" d	22' 2" d	18' 11" d	15' 7" d	20' 7" d	17' 7" d	14' 8" d	19' 5" d	16' 8" d	13' 11" d	18' 5" d	15' 10" d	13' 3" d	17' 7" d	15' 2" d	12' 9" d	16' 10" f	14' 8" d	12' 4" d
	8	10	47' 4" d	35' 3" d	29' 9" d	26' 0" d	22' 2" d	18' 4" d	23' 2" d	19' 11" d	16' 7" d	21' 3" d	18' 4" d	15' 5" d	19' 11" d	17' 3" d	14' 6" d	18' 10" d	16' 4" d	13' 10" d	17' 11" d	15' 7" d	13' 3" d	17' 3" d	15' 0" d	12' 9" d	16' 7" d	14' 6" d	12' 5" d
		12	45' 0" d	33' 8" d	28' 8" d	25' 2" d	21' 8" d	18' 2" d	22' 7" d	19' 7" d	16' 6" d	20' 10" d	18' 2" d	15' 4" d	19' 7" d	17' 1" d	14' 6" d	18' 7" d	16' 3" d	13' 10" d	17' 9" d	15' 7" d	13' 3" d	17' 1" d	15' 0" d	12' 10" d	16' 6" d	14' 6" d	12' 5" d
		8	47' 0" d	34' 10" d	29' 3" d	25' 5" d	21' 6" d	17' 8" d	22' 7" d	19' 2" d	15' 10" d	20' 7" d	17' 8" d	14' 8" d	19' 2" d	16' 6" d	13' 10" d	18' 1" d	15' 7" d	13' 2" d	17' 1" f	14' 11" d	12' 7" d	16' 1" f	14' 4" d	12' 2" d	15' 3" f	13' 10" d	11' 9" d
	10	10	44' 0" d	32' 8" d	27' 8" d	24' 2" d	20' 8" d	17' 3" d	21' 8" d	18' 8" d	15' 9" d	19' 11" d	17' 3" d	14' 8" d	18' 8" d	16' 3" d	13' 10" d	17' 8" d	15' 6" d	13' 3" d	16' 11" d	14' 10" d	12' 9" d	16' 3" d	14' 4" d	12' 4" d	15' 9" d	13' 10" d	12' 0" d
		12	41' 9" d	31' 3" d	26' 8" d	23' 6" d	20' 4" d	17' 3" d	21' 3" d	18' 6" d	15' 9" d	19' 8" d	17' 3" d	14' 9" d	18' 6" d	16' 3" d	13' 11" d	17' 7" d	15' 6" d	13' 4" d	16' 10" d	14' 11" d	12' 10" d	16' 3" d	14' 5" d	12' 5" d	15' 9" d	13' 11" d	12' 1" d
800JS250-43, 50ksi	4	6	51' 6" d	39' 2" d	33' 3" d	28' 4" f*	24' 8" d*	20' 1" d	22' 10" f*	21' 11" d*	17' 10" d*	19' 6" f*	19' 6" f*	16' 4" d*	17' 3" f*	17' 3" f*	15' 3" d*	15' 8" f*	15' 8" f*	14' 4" d*	14' 5" f*	14' 5" f*	13' 8" d*	13' 6" f*	13' 6" f*	13' 0" d*	12' 9" f*	12' 9" f*	12' 6" d*
		8	48' 10" d	36' 11" d	31' 4" d	24' 10" f*	23' 2" d*	19' 0" d	20' 8" f*	20' 8" f*	17' 0" d*	18' 1" f*	18' 1" f*	15' 7" d*	16' 4" f*	16' 4" f*	14' 7" d*	15' 2" f*	15' 2" f*	13' 10" d*	14' 2" f*	14' 2" f*	13' 2" d*	13' 4" f*	13' 4" f*	12' 8" d*	12' 8" f*	12' 8" f*	12' 2" d*
	6	8	44' 2" d	33' 1" d	27' 11" d	20' 3" f*	20' 3" f*	16' 11" d*	17' 2" f*	17' 2" f*	15' 3" d*	15' 4" f*	15' 4" f*	14' 1" d*	14' 1" f*	14' 1" f*	13' 3" d*	13' 2" f*	13' 2" f*	12' 7" d*	12' 5" f*	12' 5" f*	12' 0" d*	11' 9" f*	11' 9" f*	11' 7" d*	11' 2" f*	11' 2" f*	11' 2" f*
		10	39' 5" f	31' 4" d	26' 7" d	19' 9" f*	19' 9" f*	16' 7" d*	17' 3" f*	17' 3" f*	15' 0" d*	15' 7" f*	15' 7" f*	13' 11" d*	14' 3" f*	14' 3" f*	13' 2" d*	13' 3" f*	13' 3" f*	12' 6" d*	12' 6" f*	12' 6" f*	12' 0" d*	11' 10" f*	11' 10" f*	11' 7" d*	11' 3" f*	11' 3" f*	11' 2" d*
		8	36' 10" f*	30' 3" d	25' 6" d	17' 8" f*	17' 8" f*	15' 8" d*	15' 2" f*	15' 2" f*	14' 2" d*	13' 9" f*	13' 9" f*	13' 1" d*	12' 9" f*	12' 9" f*	12' 4" d*	11' 9" f*	11' 9" f*	11' 9" f*	11' 0" f*	11' 0" f*	11' 0" f*	10' 4" f*	10' 4" f*	10' 4" f*	9' 8" f*	9' 8" f*	9' 8" f*
	8	10	33' 2" f	28' 7" d	24' 3" d	17' 8" f*	17' 8" f*	15' 5" d*	15' 8" f*	15' 8" f*	14' 1" d*	14' 2" f*	14' 2" f*	13' 1" d*	13' 1" f*	13' 1" f*	12' 5" d*	12' 2" f*	12' 2" f*	11' 10" d*	11' 6" f*	11' 6" f*	11' 5" d*	10' 6" f*	10' 6" f*	10' 6" f*	10' 0" f*	10' 0" f*	10' 0" f*
		12	31' 3" f	27' 6" d	23' 7" d	18' 0" f*	18' 0" f*	15' 5" d*	15' 9" f*	15' 9" f*	14' 1" d*	14' 2" f*	14' 2" f*	13' 2" d*	13' 1" f*	13' 1" f*	12' 5" d*	12' 2" f*	12' 2" f*										
		8	31' 10" f*	28' 0" d	23' 8" d	15' 11" f*	15' 11" f*	14' 8" d*	13' 11" f*	13' 11" f*	13' 4" d*	12' 8" f*	12' 8" f*	12' 6" d*	11' 6" f*	11' 6" f*	11' 6" f*	10' 8" f*	10' 8" f*	10' 8" f*	9' 10" f*	9' 10" f*	9' 10" f*	8' 11" f*	8' 11" f*	8' 11" f*	8' 0" f*	8' 0" f*	8' 0" f*
	10	10	29' 1" f	26' 6" d	22' 7" d	16' 4" f*	16' 4" f*	14' 8" d*	14' 7" f*	14' 7" f*	13' 6" d*	13' 3" f*	13' 3" f*	12' 8" d*	12' 2" f*	12' 2" f*	12' 0" d*	11' 2" f*	11' 2" f*	11' 2" f*	10' 0" f*	10' 0" f*	10' 0" f*	10' 0" f*	10' 0" f*	10' 0" f*	10' 0" f*	10' 0" f*	10' 0" f*
		12	27' 11" f	25' 8" d	22' 1" d	16' 9" f*	16' 9" f*	14' 9" d*	14' 9" f*	14' 9" f*	13' 7" d*	13' 5" f*	13' 5" f*	12' 9" d*	12' 5" f*	12' 5" f*	12' 1" d*												
800JS250-54, 50ksi	4	6	56' 1" d	42' 9" d	36' 4" d	31' 9" d*	26' 11" d	21' 11" d	28' 3" d*	24' 0" d	19' 6" d	24' 6" f*	21' 11" d*	17' 10" d	21' 6" f*	20' 4" d*	16' 7" d*	19' 3" f*	19' 2" d*	15' 8" d*	17' 7" f*	17' 7" f*	14' 10" d*	16' 4" f*	16' 4" f*	14' 2" d*	15' 3" f*	15' 3" f*	13' 7" d*
		8	53' 3" d	40' 4" d	34' 3" d	29' 10" d	25' 4" d	20' 8" d	25' 5" f*	22' 7" d*	18' 6" d	21' 11" f*	20' 8" d*	17' 0" d	19' 7" f*	19' 3" d*	15' 10" d*	17' 11" f*	17' 11" f*	15' 0" d*	16' 8" f*	16' 8" f*	14' 3" d*	15' 8" f*	15' 8" f*	13' 8" d*	14' 10" f*	14' 10" f*	13' 2" d*
	6	8	48' 5" d	36' 3" d	30' 7" d	24' 11" f*	22' 7" d	18' 5" d	20' 8" f*	20' 1" d*	16' 6" d	18' 2" f*	18' 2" f*	15' 3" d	16' 5" f*	16' 5" f*	14' 3" d*	15' 2" f*	15' 2" f*	13' 6" d*	14' 3" f*	14' 3" f*	12' 11" d*	13' 7" f*	13' 7" f*	12' 5" d*	13' 0" f*	13' 0" f*	12' 0" d*
		10	45' 9" d	34' 3" d	29' 0" d	23' 6" f*	21' 8" d	17' 11" d	20' 1" f*	19' 5" d*	16' 2" d	18' 1" f*	17' 11" d*	15' 0" d	16' 8" f*	16' 8" f*	14' 2" d*	15' 6" f*	15' 6" f*	13' 5" d*	14' 6" f*	14' 6" f*	12' 10" d*	13' 9" f*	13' 9" f*	12' 5" d*	13' 1" f*	13' 1" f*	12' 0" d*
		8	44' 7" d	33' 2" d	27' 11" d	21' 4" f*	20' 7" d	16' 11" d	18' 0" f*	18' 0" f*	15' 3" d	15' 11" f*	15' 11" f*	14' 1" d*	14' 7" f*	14' 7" f*	13' 3" d*	13' 8" f*	13' 8" f*	12' 8" d*	12' 11" f*	12' 11" f*	12' 1" d*	12' 4" f*	12' 4" f*	11' 8" d*	11' 10" f*	11' 10" f*	11' 4" d*
	8	10	41' 10" f	31' 3" d	26' 6" d	20' 7" f	19' 11" d	16' 7" d	17' 11" f*	17' 11" f*	15' 1" d	16' 4" f*	16' 4" f*	14' 0" d*	15' 1" f*	15' 1" f*	13' 3" d*	14' 1" f*	14' 1" f*	12' 8" d*	13' 3" f*	13' 3" f*	12' 2" d*	12' 7" f*	12' 7" f*	11' 9" d*	12' 0" f*	12' 0" f*	11' 4" d*
		12	38' 7" f	30' 0" d	25' 7" d	20' 9" f*	19' 7" d	16' 6" d	18' 3" f*	17' 9" d*	15' 1" d	16' 6" f*	16' 6" f*	14' 1" d*	15' 2" f*	15' 2" f*	13' 3" d*	14' 1" f*	14' 1" f*	12' 8" d*	13' 3" f*	13' 3" f*	12' 2" d*	12' 7" f*	12' 7" f*		12' 0" f*	12' 0" f*	
		8	40' 10" f	30' 9" d	25' 11" d	19' 0" f*	19' 0" f*	15' 11" d	16' 2" f*	16' 2" f*	14' 4" d	14' 7" f*	14' 7" f*	13' 4" d*	13' 5" f*	13' 5" f*	12' 7" d*	12' 8" f*	12' 8" f*	12' 0" d*	12' 1" f*	12' 1" f*	11' 7" d*	11' 7" f*	11' 7" f*	11' 2" d*	11' 2" f*	11' 2" f*	10' 10" d*
	10	10	36' 3" f	29' 0" d	24' 8" d	18' 9" f*	18' 8" d*	15' 9" d	16' 6" f*	16' 6" f*	14' 5" d	15' 2" f*	15' 2" f*	13' 5" d*	14' 1" f*	14' 1" f*	12' 9" d*	13' 3" f*	13' 3" f*	12' 3" d*	12' 7" f*	12' 7" f*	11' 9" d*	12' 0" f*	12' 0" f*	11' 5" d*	11' 6" f*	11' 6" f*	11' 1" d*
		12	33' 11" f	27' 11" d	23' 11" d	19' 3" f*	18' 6" d	15' 9" d	17' 0" f*	16' 10" d*	14' 5" d*	15' 5" f*	15' 5" f*	13' 7" d*	14' 3" f*	14' 3" f*	12' 10" d*	13' 4" f*	13' 4" f*	12' 4" d*	12' 7" f*	12' 7" f*		12' 0" f*	12' 0" f*				
800JS250-68, 50ksi	4	6	61' 2" d	46' 8" d	39' 9" d	34' 9" d	29' 6" d	24' 0" d	30' 11" d	26' 3" d	21' 4" d	28' 3" d	24' 0" d	19' 6" d	26' 3" d*	22' 3" d	18' 2" d	24' 3" f*	20' 11" d	17' 1" d	22' 0" f*	19' 10" d*	16' 2" d	20' 3" f*	18' 11" d*	15' 5" d	18' 10" f*	18' 2" d*	14' 10" d
		8	58' 2" d	44' 1" d	37' 5" d	32' 8" d	27' 9" d	22' 7" d	29' 1" d	24' 8" d	20' 2" d	26' 7" d	22' 7" d	18' 6" d	24' 0" f*	21' 0" d	17' 3" d	21' 9" f*	19' 9" d	16' 3" d	20' 0" f*	18' 9" d*	15' 6" d	18' 8" f*	17' 11" d*	14' 10" d	17' 7" f*	17' 3" d*	14' 3" d*
	6	8	53' 1" d	39' 9" d	33' 7" d	29' 2" d	24' 8" d	20' 1" d	25' 6" f	22' 0" d	18' 0" d	22' 0" f	20' 1" d	16' 6" d	19' 8" f*	18' 9" d	15' 5" d	18' 0" f*	17' 8" d*	14' 7" d	16' 9" f*	16' 9" f*	13' 11" d	15' 9" f*	15' 9" f*	13' 5" d	14' 11" f*	14' 11" f*	12' 11" d*
		10	50' 3" d	37' 7" d	31' 9" d	27' 9" d	23' 7" d	19' 5" d	24' 0" f	21' 1" d	17' 6" d	21' 2" f	19' 5" d	16' 2" d	19' 3" f	18' 2" d	15' 3" d	17' 11" f*	17' 3" d*	14' 5" d	16' 11" f*	16' 5" d*	13' 10" d	16' 0" f*	15' 9" d*	13' 4" d	15' 3" f*	15' 3" f*	12' 10" d*
		8	49' 0" d	36' 6" d	30' 8" d	26' 4" f	22' 7" d	18' 5" d	21' 9" f	20' 1" d	16' 6" d	19' 0" f	18' 5" d	15' 3" d	17' 2" f*	17' 2" f*	14' 4" d	15' 10" f*	15' 10" f*	13' 7" d	14' 10" f*	14' 10" f*	13' 0" d	14' 1" f*	14' 1" f*	12' 6" d*	13' 5" f*	13' 5" f*	12' 1" d*
	8	10	46' 1" d	34' 4" d	29' 0" d	24' 8" f	21' 7" d	17' 11" d	21' 0" f	19' 5" d	16' 3" d	18' 9" f	17' 11" d	15' 1" d	17' 3" f*	16' 10" d	14' 3" d	16' 2" f*	16' 0" d*	13' 6" d	15' 4" f*	15' 3" d*	13' 0" d*	14' 6" f*	14' 6" f*	12' 6" d*	13' 10" f*	13' 10" f*	12' 2" d*
		12	43' 9" d	32' 10" d	27' 11" d	24' 2" f	21' 2" d	17' 9" d	21' 1" f	19' 2" d	16' 2" d	19' 1" f	17' 9" d	15' 1" d	17' 7" f*	16' 9" d	14' 3" d	16' 4" f*	15' 11" d*	13' 7" d*	15' 4" f*	15' 3" d*	13' 0" d*	14' 7" f*	14' 7" f*	12' 7" d*	13' 10" f*	13' 10" f*	12' 2" d*
		8	45' 9" d	33' 10" d	28' 6" d	23' 2" f	20' 11" d	17' 3" d	19' 4" f	18' 9" d	15' 6" d	17' 1" f	17' 1" f	14' 4" d	15' 6" f*	15' 6" f*	13' 6" d	14' 5" f*	14' 5" f*	12' 10" d	13' 8" f*	13' 8" f*	12' 4" d*	13' 0" f*	13' 0" f*	11' 11" d*	12' 6" f*	12' 6" f*	11' 7" d*
	10	10	42' 9" d	31' 10" d	26' 11" d	22' 1" f	20' 3" d	16' 11" d	19' 0" f	18' 3" d	15' 5" d	17' 2" f	16' 11" d	14' 4" d	16' 0" f*	15' 11" d*	13' 7" d	15' 1" f*	15' 1" f*	13' 0" d*	14' 4" f*	14' 4" f*	12' 6" d*	13' 8" f*	13' 8" f*	12' 2" d*	13' 1" f*	13' 1" f*	11' 9" d*
		12	40' 7" d	30' 6" d	26' 0" d	22' 0" f	19' 11" d	16' 10" d	19' 6" f	18' 1" d	15' 5" d	17' 9" f*	16' 10" d	14' 5" d	16' 4" f*	15' 11" d*	13' 8" d*	15' 4" f*	15' 3" d*	13' 1" d*	14' 5" f*	14' 5" f*	12' 7" d*	13' 9" f*	13' 9" f*	12' 3" d*	13' 2" f*	13' 2" f*	
800JS250-97, 50ksi	4	6	69' 7" d	53' 3" d	45' 5" d	39' 9" d	33' 9" d	27' 6" d	35' 5" d	30' 1" d	24' 5" d	32' 5" d	27' 6" d	22' 4" d	30' 1" d	25' 6" d	20' 9" d	28' 3" d	24' 0" d	19' 6" d	26' 9" d	22' 9" d	18' 6" d	25' 6" d	21' 8" d	17' 8" d	24' 5" d	20' 9" d	16' 11" d
		8	66' 5" d	50' 6" d	42' 11" d	37' 5" d	31' 9" d	25' 10" d	33' 4" d	28' 3" d	23' 0" d	30' 5" d	25' 10" d	21' 1" d	28' 3" d	24' 0" d	19' 7" d	26' 7" d	22' 7" d	18' 6" d	25' 2" d	21' 5" d	17' 7" d	24' 0" d	20' 5" d	16' 9" d	23' 0" d	19' 7" d	16' 2" d
	6	8	61' 0" d	45' 9" d	38' 8" d	33' 7" d	28' 4" d	23' 0" d	29' 9" d	25' 2" d	20' 6" d	27' 2" d	23' 0" d	18' 9" d	25' 2" d	21' 4" d	17' 6" d	23' 8" d	20' 1" d	16' 6" d	22' 2" f	19' 1" d	15' 9" d	20' 7" f	18' 3" d	15' 1" d	19' 3" f	17' 6" d	14' 6" d
		10	57' 10" d	43' 3" d	36' 6" d	31' 9" d	26' 11" d	22' 1" d	28' 3" d	24' 1" d	19' 9" d	25' 10" d	22' 1" d	18' 3" d	24' 1" d	20' 7" d	17' 1" d	22' 8" d	19' 5" d	16' 2" d	21' 3" f	18' 6" d	15' 6" d	20' 0" f	17' 9" d	14' 10" d	19' 0" f	17' 1" d	14' 4" d
		8	56' 7" d	42' 1" d	35' 5" d	30' 8" d	25' 11" d	21' 0" d	27' 2" d	23' 0" d	18' 9" d	24' 9" d	21' 0" d	17' 3" d	22' 10" f	19' 7" d	16' 1" d	20' 8" f	18' 5" d	15' 3" d	19' 1" f	17' 6" d	14' 7" d	17' 10" f	16' 9" d	14' 0" d	16' 10" f	16' 1" d	13' 6" d
	8	10	53' 2" d	39' 7" d	33' 4" d	29' 0" d	24' 7" d	20' 3" d	25' 10" d	22' 0" d	18' 3" d	23' 7" d	20' 3" d	16' 11" d	21' 10" f	18' 11" d	15' 10" d	20' 1" f	17' 11" d	15' 1" d	18' 10" f	17' 1" d	14' 5" d	17' 10" f	16' 5" d	13' 11" d	17' 0" f	15' 10" d	13' 5" d
		12	50' 6" d	37' 8" d	31' 11" d	27' 11" d	23' 11" d	19' 11" d	25' 0" d	21' 6" d	18' 1" d	23' 0" d	19' 11" d	16' 9" d	21' 6" d	18' 9" d	15' 10" d	20' 4" f	17' 9" d	15' 1" d	19' 2" f	17' 0" d	14' 5" d	18' 2" f	16' 4" d	13' 11" d	17' 4" f	15' 10" d	13' 6" d
		8	52' 11" d	39' 2" d	32' 11" d	28' 6" d	24' 0" d	19' 7" d	25' 3" d	21' 4" d	17' 6" d	22' 8" f	19' 7" d	16' 2" d	20' 2" f	18' 3" d	15' 2" d	18' 6" f	17' 3" d	14' 4" d	17' 2" f	16' 5" d	13' 9" d	16' 1" f	15' 9" d	13' 3" d	15' 3" f	15' 2" d	12' 10" d
	10	10	49' 6" d	36' 8" d	30' 11" d	26' 11" d	22' 11" d	19' 0" d	24' 0" d	20' 7" d	17' 2" d	21' 8" f	19' 0" d	16' 0" d	19' 9" f	17' 10" d	15' 1" d	18' 4" f	16' 11" d	14' 4" d	17' 3" f	16' 2" d	13' 10" d	16' 5" f	15' 7" d	13' 4" d	15' 9" f	15' 1" d	12' 11" d
		12	46' 10" d	34' 11" d	29' 8" d	26' 0" d	22' 5" d	18' 10" d	23' 4" d	20' 3" d	17' 2" d	21' 7" d	18' 10" d	16' 0" d	20' 1" f	17' 9" d	15' 1" d	18' 10" f	16' 10" d	14' 5" d	17' 10" f	16' 2" d	13' 11" d	16' 11" f	15' 7" d	13' 5" d	16' 2" f	15' 1" d	13' 0" d*

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Heights

Refer to Important Table Notes on Page 9

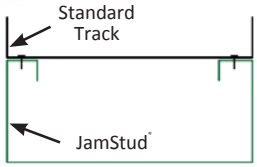
JamStud Member	Opening Width (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																											
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
800JS250-118, 50ksi	4	6	74' 7" d	57' 2" d	48' 10" d	42' 9" d	36' 5" d	29' 7" d	38' 2" d	32' 5" d	26' 4" d	34' 10" d	29' 7" d	24' 1" d	32' 5" d	27' 6" d	22' 4" d	30' 5" d	25' 10" d	21' 0" d	28' 10" d	24' 6" d	19' 11" d	27' 6" d	23' 4" d	19' 0" d	26' 4" d	22' 4" d	18' 2" d
		8	71' 5" d	54' 4" d	46' 3" d	40' 4" d	34' 3" d	27' 10" d	35' 11" d	30' 6" d	24' 9" d	32' 10" d	27' 10" d	22' 8" d	30' 6" d	25' 10" d	21' 1" d	28' 7" d	24' 4" d	19' 10" d	27' 1" d	23' 0" d	18' 10" d	25' 10" d	22' 0" d	18' 0" d	24' 9" d	21' 1" d	17' 4" d
	6	8	65' 9" d	49' 5" d	41' 9" d	36' 3" d	30' 7" d	24' 9" d	32' 2" d	27' 2" d	22' 1" d	29' 4" d	24' 9" d	20' 2" d	27' 2" d	23' 0" d	18' 10" d	25' 6" d	21' 8" d	17' 9" d	24' 2" d	20' 6" d	16' 10" d	23' 0" d	19' 7" d	16' 1" d	22' 1" d	18' 10" d	15' 6" d
		10	62' 5" d	46' 9" d	39' 5" d	34' 4" d	29' 0" d	23' 8" d	30' 6" d	25' 10" d	21' 2" d	27' 10" d	23' 8" d	19' 6" d	25' 10" d	22' 1" d	18' 3" d	24' 4" d	20' 10" d	17' 3" d	23' 1" d	19' 10" d	16' 6" d	22' 1" d	19' 0" d	15' 10" d	21' 2" d	18' 3" d	15' 3" d
	8	8	61' 2" d	45' 7" d	38' 4" d	33' 2" d	28' 0" d	22' 8" d	29' 5" d	24' 10" d	20' 2" d	26' 9" d	22' 8" d	18' 6" d	24' 10" d	21' 0" d	17' 3" d	23' 3" d	19' 9" d	16' 4" d	22' 1" f	18' 9" d	15' 6" d	20' 6" f	17' 11" d	14' 11" d	19' 3" f	17' 3" d	14' 4" d
		10	57' 6" d	42' 9" d	36' 0" d	31' 3" d	26' 6" d	21' 8" d	27' 10" d	23' 8" d	19' 6" d	25' 5" d	21' 8" d	18' 0" d	23' 8" d	20' 3" d	16' 11" d	22' 3" d	19' 2" d	16' 0" d	21' 2" f	18' 3" d	15' 4" d	19' 11" f	17' 6" d	14' 9" d	18' 11" f	16' 11" d	14' 3" d
		12	54' 8" d	40' 9" d	34' 5" d	30' 0" d	25' 8" d	21' 3" d	26' 10" d	23' 0" d	19' 3" d	24' 8" d	21' 3" d	17' 10" d	23' 0" d	19' 11" d	16' 9" d	21' 9" d	18' 11" d	16' 0" d	20' 9" d	18' 1" d	15' 4" d	19' 11" d	17' 5" d	14' 9" d	19' 3" f	16' 9" d	14' 3" d
	10	8	57' 3" d	42' 5" d	35' 7" d	30' 10" d	25' 11" d	21' 0" d	27' 3" d	23' 0" d	18' 10" d	24' 10" d	21' 0" d	17' 3" d	23' 0" d	19' 7" d	16' 2" d	21' 3" f	18' 5" d	15' 4" d	19' 7" f	17' 6" d	14' 7" d	18' 3" f	16' 9" d	14' 1" d	17' 3" f	16' 2" d	13' 7" d
		10	53' 7" d	39' 8" d	33' 5" d	29' 0" d	24' 8" d	20' 4" d	25' 10" d	22' 1" d	18' 4" d	23' 8" d	20' 4" d	17' 0" d	22' 1" d	19' 0" d	16' 0" d	20' 7" f	18' 0" d	15' 3" d	19' 3" f	17' 2" d	14' 7" d	18' 2" f	16' 7" d	14' 1" d	17' 4" f	16' 0" d	13' 8" d
		12	50' 9" d	37' 9" d	31' 11" d	27' 11" d	23' 11" d	20' 0" d	25' 0" d	21' 7" d	18' 2" d	23' 0" d	20' 0" d	16' 11" d	21' 7" d	18' 10" d	16' 0" d	20' 6" d	17' 11" d	15' 3" d	19' 7" f	17' 2" d	14' 8" d	18' 8" f	16' 6" d	14' 2" d	17' 11" f	16' 0" d	13' 9" d
800JS350-68, 50ksi	4	6	66' 1" d	50' 7" d	43' 1" d	37' 8" d	32' 0" d	26' 1" d	33' 7" d	28' 6" d	23' 2" d	30' 8" d*	26' 1" d	21' 2" d	28' 6" d*	24' 2" d	19' 8" d	25' 5" f*	22' 9" d*	18' 6" d	23' 0" f*	21' 6" d*	17' 6" d	21' 2" f*	20' 6" d*	16' 9" d	19' 8" f*	19' 8" f*	16' 1" d*
		8	63' 1" d	47' 11" d	40' 8" d	35' 6" d	30' 1" d	24' 6" d	31' 7" d	26' 9" d	21' 10" d	28' 5" f*	24' 6" d	20' 0" d	25' 1" f*	22' 9" d	18' 8" d	22' 8" f*	21' 5" d*	17' 7" d	20' 10" f*	20' 4" d*	16' 8" d	19' 4" f*	19' 4" f*	16' 0" d*	18' 3" f*	18' 3" f*	15' 4" d*
	6	8	57' 9" d	43' 4" d	36' 7" d	31' 9" d	26' 10" d	21' 10" d	26' 7" f	23' 10" d	19' 5" d	22' 11" f	21' 10" d	17' 10" d	20' 5" f*	20' 3" d*	16' 8" d	18' 8" f*	18' 8" f*	15' 9" d	17' 4" f*	17' 4" f*	15' 0" d	16' 3" f*	16' 3" f*	14' 4" d*	15' 5" f*	15' 5" f*	13' 10" d*
		10	54' 8" d	40' 11" d	34' 7" d	29' 10" f	25' 7" d	21' 0" d	24' 11" f	22' 10" d	18' 10" d	21' 11" f	21' 0" d	17' 5" d	19' 11" f*	19' 7" d	16' 4" d	18' 6" f*	18' 6" f*	15' 6" d	17' 5" f*	17' 5" f*	14' 9" d	16' 6" f*	16' 6" f*	14' 3" d*	15' 8" f*	15' 8" f*	13' 9" d*
	8	8	53' 5" d	39' 9" d	33' 6" d	27' 6" f	24' 6" d	19' 11" d	22' 8" f	21' 10" d	17' 10" d	19' 9" f*	19' 9" f*	16' 5" d	17' 9" f*	17' 9" f*	15' 4" d	16' 4" f*	16' 4" f*	14' 7" d	15' 4" f*	15' 4" f*	13' 11" d*	14' 6" f*	14' 6" f*	13' 4" d*	13' 10" f*	13' 10" f*	12' 11" d*
		10	50' 2" d	37' 5" d	31' 6" d	25' 8" f	23' 4" d	19' 3" d	21' 9" f	20' 11" d	17' 5" d	19' 4" f	19' 3" d	16' 2" d	17' 9" f*	17' 9" f*	15' 2" d	16' 8" f*	16' 8" f*	14' 5" d	15' 9" f*	15' 9" f*	13' 10" d*	14' 11" f*	14' 11" f*	13' 4" d*	14' 3" f*	14' 3" f*	12' 11" d*
		12	47' 7" d	35' 8" d	30' 3" d	25' 0" f	22' 9" d	19' 0" d	21' 8" f	20' 7" d	17' 3" d	19' 8" f*	19' 0" d	16' 1" d	18' 1" f*	17' 11" d*	15' 2" d	16' 10" f*	16' 10" f*	14' 5" d*	15' 10" f*	15' 10" f*	13' 10" d*	15' 0" f*	15' 0" f*	13' 4" d*	14' 3" f*	14' 3" f*	12' 11" d*
	10	8	49' 10" d	37' 0" d	31' 1" d	24' 2" f	22' 9" d	18' 7" d	20' 1" f	20' 1" f	16' 8" d	17' 8" f*	17' 8" f*	15' 5" d	16' 0" f*	16' 0" f*	14' 6" d	14' 11" f*	14' 11" f*	13' 9" d*	14' 0" f*	14' 0" f*	13' 2" d*	13' 4" f*	13' 4" f*	12' 8" d*	12' 9" f*	12' 9" f*	12' 3" d*
		10	46' 6" d	34' 8" d	29' 3" d	22' 11" f	21' 10" d	18' 2" d	19' 8" f	19' 7" d	16' 5" d	17' 8" f	17' 8" f	15' 4" d	16' 5" f*	16' 5" f*	14' 6" d	15' 5" f*	15' 5" f*	13' 10" d*	14' 8" f*	14' 8" f*	13' 3" d*	14' 0" f*	14' 0" f*	12' 10" d*	13' 5" f*	13' 5" f*	12' 6" d*
		12	44' 1" d	33' 1" d	28' 2" d	22' 8" f	21' 4" d	18' 0" d	20' 0" f	19' 4" d	16' 5" d	18' 3" f*	18' 0" d*	15' 4" d	16' 10" f*	16' 10" f*	14' 6" d*	15' 9" f*	15' 9" f*	13' 11" d*	14' 10" f*	14' 10" f*	13' 4" d*	14' 1" f*	14' 1" f*	12' 11" d*	13' 6" f*	13' 6" f*	12' 7" d*
800JS350-97, 50ksi	4	6	75' 3" d	57' 8" d	49' 3" d	43' 1" d	36' 8" d	29' 10" d	38' 5" d	32' 8" d	26' 7" d	35' 2" d	29' 10" d	24' 3" d	32' 8" d	27' 9" d	22' 7" d	30' 9" d	26' 1" d	21' 2" d	29' 1" d	24' 8" d	20' 1" d	27' 9" d	23' 6" d	19' 2" d	26' 7" d	22' 7" d	18' 4" d
		8	72' 0" d	54' 10" d	46' 7" d	40' 8" d	34' 6" d	28' 1" d	36' 3" d	30' 9" d	25' 0" d	33' 1" d	28' 1" d	22' 10" d	30' 9" d	26' 1" d	21' 3" d	28' 10" d	24' 6" d	20' 0" d	27' 4" d	23' 3" d	19' 0" d	26' 1" d	22' 2" d	18' 2" d	24' 10" f	21' 3" d	17' 5" d
	6	8	66' 4" d	49' 11" d	42' 1" d	36' 7" d	30' 11" d	25' 0" d	32' 5" d	27' 5" d	22' 3" d	29' 7" d	25' 0" d	20' 4" d	27' 5" d	23' 3" d	18' 11" d	25' 6" f	21' 10" d	17' 10" d	23' 4" f	20' 8" d	17' 0" d	21' 8" f	19' 9" d	16' 3" d	20' 3" f	18' 11" d	15' 8" d
		10	63' 0" d	47' 2" d	39' 10" d	34' 7" d	29' 3" d	23' 11" d	30' 9" d	26' 1" d	21' 4" d	28' 1" d	23' 11" d	19' 8" d	26' 1" d	22' 3" d	18' 5" d	24' 0" f	21' 0" d	17' 5" d	22' 3" f	20' 0" d	16' 7" d	20' 10" f	19' 1" d	15' 11" d	19' 9" f	18' 5" d	15' 5" d
	8	8	61' 8" d	46' 0" d	38' 8" d	33' 6" d	28' 3" d	22' 10" d	29' 8" d	25' 0" d	20' 4" d	27' 0" d	22' 10" d	18' 8" d	24' 1" f	21' 3" d	17' 5" d	21' 10" f	19' 11" d	16' 5" d	20' 1" f	18' 11" d	15' 8" d	18' 9" f	18' 1" d	15' 0" d	17' 8" f	17' 5" d	14' 6" d
		10	58' 1" d	43' 2" d	36' 4" d	31' 7" d	26' 9" d	21' 10" d	28' 0" d	23' 10" d	19' 8" d	25' 6" f	21' 10" d	18' 2" d	22' 10" f	20' 5" d	17' 0" d	21' 0" f	19' 4" d	16' 2" d	19' 7" f	18' 5" d	15' 5" d	18' 6" f	17' 8" d	14' 10" d	17' 8" f	17' 0" d	14' 4" d
		12	55' 2" d	41' 1" d	34' 8" d	30' 3" d	25' 10" d	21' 5" d	27' 0" d	23' 2" d	19' 4" d	24' 10" f	21' 5" d	17' 11" d	22' 8" f	20' 1" d	16' 11" d	21' 1" f	19' 0" d	16' 1" d	19' 11" f	18' 2" d	15' 5" d	18' 11" f	17' 6" d	14' 10" d	18' 0" f	16' 11" d	14' 4" d
	10	8	57' 10" d	42' 10" d	35' 11" d	31' 1" d	26' 2" d	21' 3" d	27' 6" d	23' 3" d	18' 11" d	23' 11" f	21' 3" d	17' 5" d	21' 3" f	19' 9" d	16' 3" d	19' 4" f	18' 7" d	15' 5" d	17' 11" f	17' 8" d	14' 9" d	16' 10" f	16' 10" f	14' 2" d	15' 11" f	15' 11" f	13' 8" d
		10	54' 1" d	40' 1" d	33' 8" d	29' 3" d	24' 10" d	20' 5" d	25' 11" f	22' 3" d	18' 5" d	22' 9" f	20' 5" d	17' 1" d	20' 7" f	19' 2" d	16' 1" d	19' 1" f	18' 2" d	15' 4" d	17' 11" f	17' 4" d	14' 8" d	17' 0" f	16' 8" d	14' 2" d	16' 4" f	16' 1" d	13' 9" d
		12	51' 2" d	38' 1" d	32' 2" d	28' 2" d	24' 2" d	20' 2" d	25' 3" f	21' 9" d	18' 4" d	22' 7" f	20' 2" d	17' 0" d	20' 9" f	18' 11" d	16' 1" d	19' 6" f	18' 0" d	15' 4" d	18' 5" f	17' 3" d	14' 9" d	17' 6" f	16' 7" d	14' 3" d	16' 9" f	16' 1" d	13' 10" d
800JS350-118, 50ksi	4	6	80' 8" d	62' 0" d	53' 0" d	46' 5" d	39' 6" d	32' 2" d	41' 5" d	35' 3" d	28' 8" d	37' 11" d	32' 2" d	26' 2" d	35' 3" d	29' 11" d	24' 4" d	33' 1" d	28' 1" d	22' 10" d	31' 4" d	26' 7" d	21' 8" d	29' 11" d	25' 5" d	20' 8" d	28' 8" d	24' 4" d	19' 9" d
		8	77' 5" d	59' 0" d	50' 3" d	43' 10" d	37' 3" d	30' 3" d	39' 1" d	33' 2" d	26' 11" d	35' 8" d	30' 3" d	24' 7" d	33' 2" d	28' 1" d	22' 11" d	31' 1" d	26' 5" d	21' 6" d	29' 6" d	25' 0" d	20' 5" d	28' 1" d	23' 11" d	19' 6" d	26' 11" d	22' 11" d	18' 9" d
	6	8	71' 7" d	53' 10" d	45' 6" d	39' 7" d	33' 5" d	27' 0" d	35' 1" d	29' 7" d	24' 0" d	31' 11" d	27' 0" d	21' 11" d	29' 7" d	25' 1" d	20' 5" d	27' 9" d	23' 6" d	19' 2" d	26' 3" d	22' 3" d	18' 3" d	25' 1" d	21' 3" d	17' 5" d	24' 0" d	20' 5" d	16' 9" d
		10	68' 0" d	51' 0" d	43' 0" d	37' 4" d	31' 7" d	25' 8" d	33' 2" d	28' 1" d	22' 11" d	30' 3" d	25' 8" d	21' 1" d	28' 1" d	23' 11" d	19' 8" d	26' 5" d	22' 6" d	18' 7" d	25' 1" d	21' 5" d	17' 9" d	23' 11" d	20' 6" d	17' 0" d	22' 10" f	19' 8" d	16' 5" d
	8	8	66' 8" d	49' 9" d	41' 10" d	36' 3" d	30' 6" d	24' 8" d	32' 1" d	27' 0" d	21' 11" d	29' 2" d	24' 8" d	20' 1" d	27' 0" d	22' 10" d	18' 8" d	25' 4" d	21' 6" d	17' 7" d	23' 10" f	20' 4" d	16' 9" d	22' 1" f	19' 5" d	16' 0" d	20' 8" f	18' 8" d	15' 5" d
		10	62' 10" d	46' 9" d	39' 4" d	34' 1" d	28' 10" d	23' 6" d	30' 3" d	25' 8" d	21' 1" d	27' 7" d	23' 6" d	19' 5" d	25' 8" d	21' 11" d	18' 2" d	24' 2" d	20' 8" d	17' 2" d	22' 8" f	19' 8" d	16' 5" d	21' 3" f	18' 10" d	15' 10" d	20' 1" f	18' 2" d	15' 3" d
		12	59' 8" d	44' 5" d	37' 6" d	32' 8" d	27' 9" d	22' 11" d	29' 1" d	24' 10" d	20' 8" d	26' 8" d	22' 11" d	19' 1" d	24' 10" d	21' 5" d	18' 0" d	23' 6" d	20' 4" d	17' 1" d	22' 4" d	19' 5" d	16' 4" d	21' 3" f	18' 7" d	15' 9" d	20' 4" f	18' 0" d	15' 3" d
	10	8	62' 7" d	46' 5" d	38' 11" d	33' 8" d	28' 4" d	22' 11" d	29' 9" d	25' 1" d	20' 5" d	27' 1" d	22' 11" d	18' 8" d	25' 1" d	21' 3" d	17' 5" d	22' 11" f	20' 0" d	16' 6" d	21' 0" f	19' 0" d	15' 8" d	19' 7" f	18' 2" d	15' 1" d	18' 5" f	17' 5" d	14' 6" d
		10	58' 8" d	43' 5" d	36' 6" d	31' 8" d	26' 9" d	21' 11" d	28' 1" d	23' 11" d	19' 9" d	25' 8" d	21' 11" d	18' 3" d	23' 11" f	20' 6" d	17' 1" d	21' 11" f	19' 4" d	16' 3" d	20' 5" f	18' 6" d	15' 7" d	19' 3" f	17' 9" d	15' 0" d	18' 3" f	17' 1" d	14' 6" d
		12	55' 6" d	41' 2" d	34' 9" d	30' 4" d	25' 10" d	21' 6" d	27' 1" d	23' 3" d	19' 5" d	24' 10" d	21' 6" d	18' 1" d	23' 3" d	20' 2" d	17' 1" d	21' 10" f	19' 2" d	16' 3" d	20' 7" f	18' 4" d	15' 7" d	19' 8" f	17' 8" d	15' 1" d	18' 10" f	17' 1" d	14' 7" d



Also use JamStud® in Header Assemblies

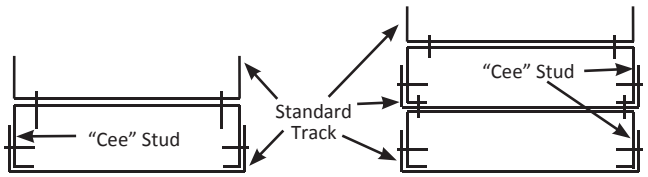
- Reduces overall materials used
- Simple Inspection
- Speeds installation
- Fewer fasteners

Span tables begin on page 35.



JamStud Header

OR

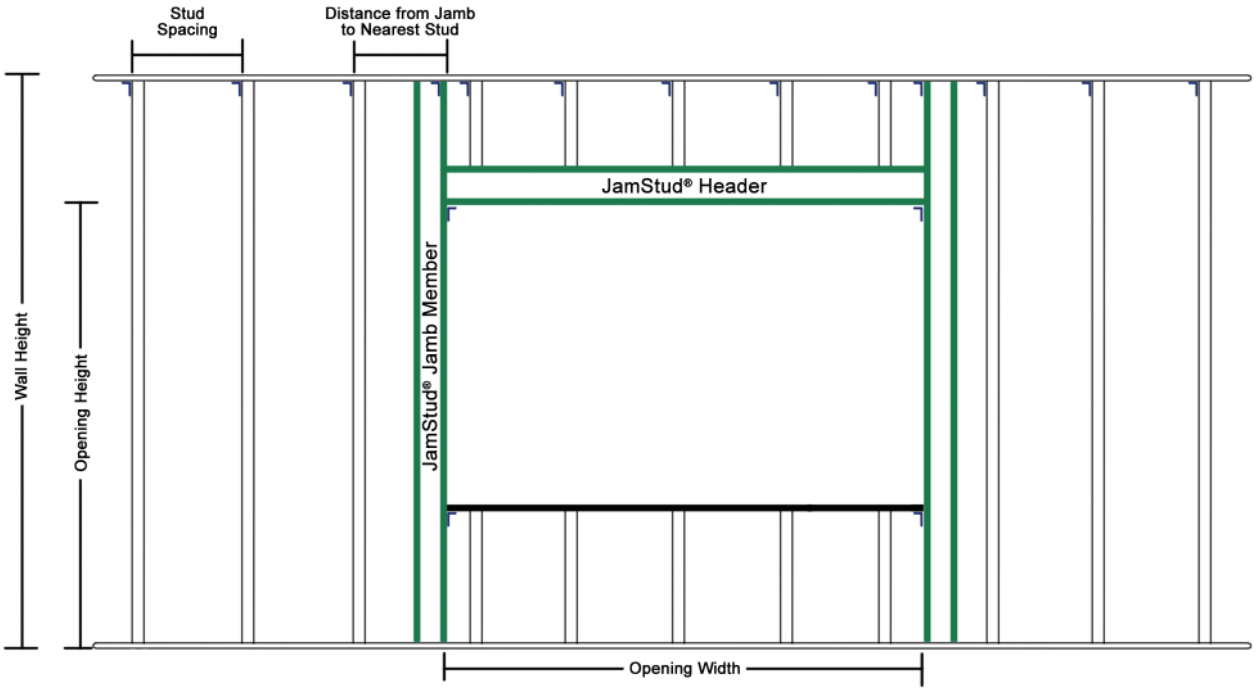


One Stud "Box" Header

Two Stud "Box" Header

* The top track seen in the assemblies above is to capture the cripple studs above and does not factor in the design of the header.

Designing JamStud®



1. Basis for Tables

The JamStud Load Bearing Opening Allowable Axial Loads tables in this catalog cover the following basic load combinations for the Allowable Stress Design (ASD) Method (IBC 2009/2012 and ASCE 7-05/10). Listed wind pressures represent calculated design wind pressure (1.0W based on 2009 or 0.6W based on 2012 IBC).

- IBC 2009 / ASCE 7-05
  - **i.** $D + W_{MWFRS}$* (Strength Determination)
  - **ii.** $D + 0.75L + 0.75_{WMWFRS}$* (Strength Determination)
  - **iii.** $0.70W_{C\&C}$** (Deflection Determination)
- IBC 2012 / ASCE 7-10
  - **i.** $D + 0.6W_{MWFRS}$* (Strength Determination)
  - **ii** $D + 0.75L + 0.75(0.6W_{MWFRS}*)$ (Strength Determination)
  - **iii.** $D + 0.70(0.6W_{C\&C}**)$ (Deflection Determination)

* MWFRS: Main Wind Force Resisting System
** C&C: Component and Cladding

For deflection determination IBC 2009 and IBC 2012 Sec. 1604.3 and AISI-S211-07 Wall Stud Design Standard Sec. A3.1 allows for a reduction factor of 0.7 on the component & cladding wind load ($0.7W_{C\&C}$).

The "JamStud Allowable Axial Loads for Load Bearing Openings" tables are based on the following assumptions:

- 4-Way distribution of lateral wind pressure acting on the opening plus
- Opening height extends from floor level to the bottom surface of the header
- Jamb member supports wind pressure from opening, wind pressure from half distance to adjacent stud, and header reaction

The input for the tables include: the JamStud section, the opening width (ft.), the opening height (ft.), the design wind pressures ($1.0W_{MWFRS}$ or $0.6W_{MWFRS}$ and $1.0W_{C\&C}$ or $0.6W_{C\&C}$, psf), and the specified deflection limit. The output from the tables reflects the allowable JamStud axial load (kips) and the maximum deflection at mid height.

2. Design Example

Given:

Service (Un-factored) Loads:

Axial Dead Load in Jamb (Reaction from header and floor above)	= 5.5 kips
Axial Live Load in Jamb (Reaction from header and floor above)	= 7.5 kips
Wind Pressure (W_{MWFRS})(ASCE 7-05) **OR** ($0.6W_{MWFRS}$)(ASCE 7-10)	= 28 psf
Wind Pressure ($W_{C\&C}$)(ASCE 7-05) **OR** ($0.6W_{C\&C}$)(ASCE 7-10)	= 40 psf

Wall Width	= 6.0 in.
Wall Height	= 12.0 ft.
Opening Width	= 8.0 ft.
Specified Deflection Limit	= L/360

Bridging (Lateral Bracing) at a maximum vertical spacing of 48" o.c.

Calculations:

a) Use the D + W_{MWFRS} (IBC 2009 / ASCE 7-05) OR D + $0.6W_{MWFRS}$ (IBC 2012 / ASCE 7-10) load combination for strength to get the first estimate of the JamStud.

Combination total axial load	= 5.5 kips
W_{MWFRS} **OR** $0.6W_{MWFRS}$	= 28 psf (approximately 30 psf)

Go to the Lateral Wind Pressure = 30 psf column with a 6 in. wall width, an 8 ft. opening width, and 12 ft. wall height, and choose 600JS250-97 (50 ksi) with an axial resistance of 8.93 kips > 5.5 kips. OK

b) Check the D + 0.75L + $0.75W_{MWFRS}$ (IBC 2009 / ASCE 7-05) **OR** D + 0.75L + $0.75(0.6W_{MWFRS})$ (IBC 2012 / ASCE 7-10) load combination for strength.

Combination total axial load	= 5.5 kips + 0.75(7.5 kips) = 11.125 kips
$0.75W_{MWFRS}$ **OR** 0.75(0.6W**MWFRS**)	= 0.75(28 psf) = 21 psf (approximately 20 psf)

Go to the Lateral Wind Pressure = 20 psf column with a 6 in. wall width, an 8 ft. opening width, and 12 ft. wall height. The axial resistance for 600JS250-97 (50 ksi) is 11.69 kips > 11.125 kips. OK

c) Check the $0.70W_{C\&C}$ (IBC 2009 / ASCE 7-05) OR $0.70(0.6W_{C\&C})$ (IBC 2012 / ASCE 7-10) load combination for deflection. The specified limit is L/360.

Go to the Lateral Wind pressure = 40 psf column with a 6 in. wall width, an 8ft. opening width, and 12 ft. wall height. The deflection parameter for 600JS250-97 (50 ksi) is 6, which indicates that $L/600 \leq \Delta < L/360$. OK

Conclusion:

Use 600JS250-97 (50 ksi) (with design thickness = 0.1017" and F_y = 50 ksi) with 3 lines of bridging arranged so that the maximum spacing does not exceed 48 in. (4 ft.)

3. Extra Design Considerations

a) Check lateral end reaction of the jamb for web crippling if applicable.

b) If the specified axial dead load and live load acting on the jamb is significantly larger than the specified wind load, the following basic load combination needs to be checked as well:

- IBC 2009 / ASCE 7-05
  - **i.** D + L (Strength Determination)
- IBC 2012 / ASCE 7-10
  - **i.** D + L (Strength Determination)

JamStud® Load Bearing Opening Allowable Axial Loads

Important Notes

1. All values are based on a tributary width equal to one-half of the opening width plus one-half of the stud spacing, where the stud spacing = 16" o.c.
2. Lateral loads have not been modified for strength checks: full loads are applied.
3. Listed wind pressures represent calculated designed wind pressure (1.0 W based on 2009 or 0.6 W based on 2012 IBC).
4. 15 psf and higher wind pressures have been multiplied by 0.7 for deflection determination, in accordance with footnote “f” of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
5. Allowable loads are based on weak axis and torsional bracing at 48" o.c. maximum for axial load calculation and continuous support of each flange for flexural calculation.
6. Sections are punched with a standard punch-out 1.5" wide located along the centerline of the web 24" o.c.
7. The allowable axial or flexural strength for distortional buckling is based on an assumed $k_\phi = 0$.
8. Allowable loads are based on checks for punched section under axial load and flexural moment.
9. Weak axis and torsional bracing should have sufficient stiffness and strength to resist the axial load.
10. Strength increase due to cold forming is incorporated in calculating allowable loads as per AISI Specification Sec. A7.2.
11. Moment of inertia for deflection is optimized based on the allowable flexural strength at service loads.
12. Loads in tables are in kips/stud.
13. The following superscripts are used for maximum deflection (Δ) calculated at mid height:
    "7" for $L/720 \le \Delta < L/600$
    "6" for $L/600 \le \Delta < L/360$
    "3" for $L/360 \le \Delta < L/240$
    "2" for $L/240 \le \Delta < L/120$
    "1" for $\Delta \ge 120$

JamStud® Allowable Axial Loads for Load Bearing Openings											
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)								
			5	15	20	25	30	35	40	45	50
350JS250-33, 50ksi	4	8	2.83	1.75	1.27[6]	0.82[6]	0.40[6]	0.01[3]			
		9	2.49	1.25[6]	0.73[6]	0.25[3]					
		10	2.14	0.80[6]	0.25[3]						
		12	1.48[6]	0.07[2]							
	6	8	2.61	1.21[6]	0.61[6]	0.05[3]					
		9	2.23	0.66[6]	0.02[3]						
		10	1.85[6]	0.18[3]							
	8	8	2.40	0.72[6]	0.01[3]						
		9	1.98[7]	0.13[3]							
	10	8	2.20	0.25[3]							
350JS250-43, 50ksi	4	8	4.38	3.16	2.61	2.10[7]	1.62[6]	1.16[6]	0.73[6]	0.31[3]	
		9	3.91	2.49[7]	1.89[6]	1.33[6]	0.81[3]	0.33[3]			
		10	3.41	1.86[6]	1.23[6]	0.65[3]	0.12[3]				
		12	2.44[7]	0.82[3]	0.19[2]						
		14	1.66[6]	0.11[2]							
	6	8	4.13	2.55	1.86[6]	1.22[6]	0.62[6]	0.05[3]			
		9	3.61	1.82[6]	1.07[6]	0.39[3]					
		10	3.08	1.16[6]	0.38[3]						
		12	2.08[6]	0.12[2]							
	8	8	3.90	1.98[6]	1.16[6]	0.41[3]					
		9	3.33	1.20[6]	0.33[3]						
		10	2.77[7]	0.52[3]							
	10	8	3.67	1.45[6]	0.51[6]						
		9	3.07[7]	0.63[3]							
350JS250-54, 50ksi	4	8	6.04	4.72	4.12	3.57	3.04[7]	2.53[6]	2.05[6]	1.59[6]	1.15[6]
		9	5.37	3.85	3.19[7]	2.58[6]	2.02[6]	1.48[6]	0.97[3]	0.49[3]	0.03[3]
		10	4.68	3.02[7]	2.33[6]	1.71[6]	1.13[3]	0.59[3]	0.08[3]		
		12	3.37	1.65[6]	0.98[3]	0.37[2]					
		14	2.37[6]	0.72[2]	0.09[2]						
		16	1.65[3]	0.11[2]							
	6	8	5.77	4.05	3.30[7]	2.60[6]	1.94[6]	1.31[6]	0.72[3]	0.15[3]	
		9	5.06	3.11[7]	2.29[6]	1.55[6]	0.85[3]	0.20[3]			
		10	4.33	2.25[6]	1.41[3]	0.65[3]					
		12	2.99[6]	0.90[3]	0.09[2]						
		14	2.00[6]	0.02[2]							
	8	8	5.52	3.43	2.53[6]	1.70[6]	0.93[6]	0.20[3]			
		9	4.76	2.44[6]	1.48[6]	0.61[3]					
		10	4.00	1.566	0.593						
		12	2.646	0.232							
	10	8	5.27	2.85[7]	1.826	0.886					
		9	4.47	1.816	0.733						
		10	3.69[7]	0.923							

Light Steel Framing Openings

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings											
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)								
			5	15	20	25	30	35	40	45	50
350JS250-68, 50ksi	4	8	7.85	6.54	5.95	5.38	4.84	4.33[7]	3.83[6]	3.35[6]	2.89[6]
		9	7.03	5.50	4.83	4.20[7]	3.62[6]	3.06[6]	2.53[6]	2.03[6]	1.54[3]
		10	6.18	4.50	3.78[7]	3.13[6]	2.53[6]	1.96[3]	1.42[3]	0.91[3]	0.42[3]
		12	4.56	2.78[6]	2.07[3]	1.43[3]	0.84[2]	0.29[2]			
		14	3.31[7]	1.57[3]	0.90[2]	0.31[2]					
		16	2.39[6]	0.76[2]	0.14[2]						
	6	8	7.59	5.87	5.11	4.39[7]	3.71[6]	3.06[6]	2.45[6]	1.85[6]	1.28[3]
		9	6.72	4.75	3.91[7]	3.13[6]	2.41[6]	1.72[3]	1.08[3]	0.46[3]	
		10	5.83	3.70[6]	2.82[6]	2.03[3]	1.29[3]	0.60[3]			
		12	4.17	1.98[3]	1.13[3]	0.36[2]					
		14	2.92[6]	0.83[2]	0.03[2]						
		16	2.02[3]	0.07[2]							
	8	8	7.34	5.25	4.33[7]	3.47[6]	2.67[6]	1.91[6]	1.18[3]	0.49[3]	
		9	6.42	4.05[7]	3.06[6]	2.15[6]	1.31[3]	0.52[3]			
		10	5.50	2.98[6]	1.96[3]	1.03[3]	0.18[2]				
		12	3.82[6]	1.28[3]	0.29[2]						
		14	2.57[3]	0.17[2]							
	10	8	7.09	4.65	3.59[6]	2.61[6]	1.70[6]	0.83[3]	0.01[3]		
		9	6.13	3.41[6]	2.28[6]	1.25[3]	0.30[3]				
		10	5.18	2.31[6]	1.16[3]	0.12[2]					
		12	3.48[6]	0.63[2]							
350JS250-97, 50ksi	4	8	11.56	10.30	9.71	9.15	8.60	8.08	7.57	7.08	6.60[7]
		9	10.44	8.93	8.25	7.61	7.00	6.42[7]	5.86[6]	5.33[6]	4.82[6]
		10	9.28	7.57	6.83	6.15[7]	5.51[6]	4.90[6]	4.33[6]	3.78[6]	3.25[3]
		12	7.00	5.15[7]	4.39[6]	3.70[6]	3.06[3]	2.47[3]	1.91[3]	1.38[2]	0.88[2]
		14	5.22	3.38[6]	2.66[3]	2.01[3]	1.42[2]	0.87[2]	0.35[2]		
		16	3.91[6]	2.16[3]	1.49[2]	0.89[2]	0.34[2]				
	6	8	11.32	9.64	8.87	8.14	7.44	6.78[7]	6.13[6]	5.51[6]	4.91[6]
		9	10.14	8.17	7.30	6.49[7]	5.73[6]	5.01[6]	4.32[6]	3.66[6]	3.03[3]
		10	8.93	6.75	5.82[7]	4.98[6]	4.19[6]	3.45[3]	2.74[3]	2.08[3]	1.44[3]
		12	6.61	4.30[6]	3.38[3]	2.54[3]	1.78[2]	1.07[2]	0.40[2]		
		14	4.82[7]	2.57[3]	1.71[2]	0.93[2]	0.23[2]				
		16	3.52[6]	1.41[2]	0.61[2]						
	8	8	11.07	9.01	8.08	7.20	6.36[7]	5.57[6]	4.81[6]	4.07[6]	3.37[6]
		9	9.84	7.45	6.42[7]	5.46[6]	4.57[6]	3.72[6]	2.92[3]	2.15[3]	1.42[3]
		10	8.59	5.997	4.90[6]	3.91[6]	3.00[3]	2.14[3]	1.33[3]	0.56[2]	
		12	6.24	3.54[6]	2.47[3]	1.51[2]	0.64[2]				
		14	4.44[6]	1.86[2]	0.87[2]						
		16	3.16[3]	0.75[2]							
	10	8	10.84	8.40	7.32	6.31[7]	5.35[6]	4.44[6]	3.57[6]	2.73[3]	1.93[3]
		9	9.56	6.78	5.59[6]	4.50[6]	3.49[6]	2.53[3]	1.63[3]	0.76[3]	
		10	8.27	5.28[6]	4.05[6]	2.93[3]	1.90[3]	0.94[2]	0.03[2]		
		12	5.89[7]	2.84[3]	1.64[2]	0.58[2]					
		14	4.10[6]	1.21[2]	0.10[2]						
		16	2.84[3]	0.15[2]							
350JS350-68, 50ksi	4	8	8.52	7.25	6.66	6.09	5.54	5.01	4.49	3.99[7]	3.51[6]
		9	7.87	6.32	5.62	4.97	4.34[7]	3.74[6]	3.17[6]	2.62[6]	2.09[6]
		10	7.23	5.42	4.63	3.91[7]	3.23[6]	2.59[6]	1.98[6]	1.39[3]	0.84[3]
		12	5.72	3.62[6]	2.77[6]	2.01[3]	1.30[3]	0.64[3]	0.02[2]		
		14	4.33	2.19[6]	1.36[3]	0.62[2]					
		16	3.17[6]	1.14[3]	0.37[2]						
	6	8	8.27	6.58	5.81	5.07	4.37	3.69[7]	3.04[6]	2.41[6]	1.80[6]
		9	7.56	5.54	4.65	3.82[7]	3.03[6]	2.29[6]	1.58[6]	0.90[3]	0.25[3]
		10	6.86	4.54	3.56[6]	2.66[6]	1.83[6]	1.04[3]	0.30[3]		
		12	5.27	2.67[6]	1.65[3]	0.72[3]					
		14	3.85[6]	1.26[3]	0.27[2]						
		16	2.70[6]	0.28[2]							
	8	8	8.03	5.95	5.01	4.12[7]	3.27[6]	2.47[6]	1.70[6]	0.95[6]	0.24[3]
		9	7.26	4.81	3.74[6]	2.76[6]	1.83[6]	0.96[3]	0.14[3]		
		10	6.50	3.73[6]	2.59[6]	1.54[3]	0.57[3]				
		12	4.85[7]	1.82[3]	0.64[3]						
		14	3.42[6]	0.44[2]							
	10	8	7.79	5.34	4.24[7]	3.21[6]	2.24[6]	1.32[6]	0.44[3]		
		9	6.97	4.11[7]	2.89[6]	1.77[6]	0.72[3]				
		10	6.16	2.98[6]	1.68[3]	0.50[3]					
		12	4.46[6]	1.05[3]							

Light Steel Framing Openings

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings										
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)							
			5	15	20	25	30	35	40	45	50
350JS350-97, 50ksi	4	8	14.04	12.65	12.00	11.37	10.76	10.17	9.60	9.04	8.50
		9	13.02	11.30	10.52	9.78	9.07	8.39	7.74	7.12[7]	6.51[6]
		10	11.77	9.78	8.91	8.10	7.33	6.61[7]	5.92[6]	5.26[6]	4.63[6]
		12	9.04	6.82	5.90[7]	5.06[6]	4.29[6]	3.57[3]	2.88[3]	2.24[3]	1.62[3]
		14	6.82	4.58[6]	3.70[6]	2.90[3]	2.17[3]	1.49[2]	0.86[2]	0.26[2]	
		16	5.17	3.01[3]	2.18[3]	1.44[2]	0.76[2]	0.14[2]			
	6	8	13.77	11.92	11.0[6]	10.24	9.46	8.70	7.97	7.26[7]	6.57[7]
		9	12.68	10.43	9.42	8.48	7.58	6.74[7]	5.93[6]	5.15[6]	4.40[6]
		10	11.36	8.81	7.71	6.70[7]	5.75[6]	4.86[6]	4.02[6]	3.22[3]	2.45[3]
		12	8.57	5.79[7]	4.67[6]	3.65[6]	2.72[3]	1.85[3]	1.04[2]	0.26[2]	
		14	6.33	3.59[6]	2.53[3]	1.58[2]	0.71[2]				
		16	4.68[6]	2.09[3]	1.10[2]	0.21[2]					
	8	8	13.50	11.22	10.17	9.18	8.23	7.32[7]	6.45[7]	5.60[6]	4.79[6]
		9	12.35	9.60	8.39	7.27[7]	6.22[6]	5.22[6]	4.27[6]	3.36[6]	2.49[3]
		10	10.98	7.90	6.61[7]	5.42[6]	4.32[6]	3.29[3]	2.31[3]	1.39[3]	0.50[3]
		12	8.12	4.86[6]	3.57[3]	2.40[3]	1.33[2]	0.332			
		14	5.88[7]	2.71[3]	1.49[2]	0.41[2]					
		16	4.25[6]	1.27[2]	0.14[2]						
	10	8	13.24	10.54	9.32	8.16	7.07[7]	6.02[6]	5.02[6]	4.06[6]	3.13[6]
		9	12.03	8.81	7.43[7]	6.14[6]	4.94[6]	3.81[6]	2.73[3]	1.71[3]	0.72[3]
		10	10.60	7.06[7]	5.59[6]	4.25[6]	3.01[3]	1.84[3]	0.75[3]		
		12	7.71	4.01[6]	2.56[3]	1.25[2]	0.06[2]				
		14	5.46[6]	1.91[3]	0.55[2]						
		16	3.85[3]	0.52[2]							
350JS350-118, 50ksi	4	8	17.84	16.48	15.83	15.20	14.59	14.00	13.42	12.86	12.31
		9	16.26	14.59	13.83	13.09	12.39	11.72	11.07	10.44	9.83[7]
		10	14.60	12.69	11.83	11.02	10.26	9.54	8.85[7]	8.18[6]	7.54[6]
		12	11.31	9.12	8.20	7.36[7]	6.57[6]	5.84[6]	5.14[6]	4.48[3]	3.85[3]
		14	8.63	6.39[7]	5.49[6]	4.68[6]	3.93[3]	3.24[3]	2.59[2]	1.97[2]	1.38[2]
		16	6.63	4.45[6]	3.60[3]	2.84[3]	2.14[2]	1.50[2]	0.90[2]	0.33[2]	
	6	8	17.58	15.75	14.90	14.08	13.28	12.52	11.77	11.05	10.35
		9	15.93	13.73	12.74	11.80	10.91	10.05	9.24[7]	8.45[6]	7.69[6]
		10	14.22	11.73	10.64	9.63	8.68[7]	7.78[6]	6.93[6]	6.11[6]	5.33[6]
		12	10.85	8.09	6.96[6]	5.93[6]	4.97[6]	4.08[3]	3.25[3]	2.46[3]	1.70[2]
		14	8.15	5.39[6]	4.30[3]	3.32[3]	2.43[2]	1.60[2]	0.82[2]	0.09[2]	
		16	6.14[7]	3.50[3]	2.48[2]	1.58[2]	0.75[2]				
	8	8	17.32	15.05	14.00	13.00	12.04	11.12	10.23	9.36[7]	8.53[6]
		9	15.61	12.91	11.72	10.59	9.53[7]	8.52[6]	7.55[6]	6.63[6]	5.74[6]
		10	13.85	10.83	9.54	8.35[6]	7.23[6]	6.18[6]	5.19[6]	4.25[3]	3.34[3]
		12	10.42	7.15[6]	5.84[6]	4.64[3]	3.55[3]	2.53[3]	1.57[2]	0.66[2]	
		14	7.70	4.49[6]	3.24[3]	2.12[2]	1.10[2]	0.15[2]			
		16	5.70[6]	2.66[3]	1.50[2]	0.47[2]					
	10	8	17.06	14.37	13.14	11.97	10.86	9.79[7]	8.77[6]	7.78[6]	6.82[6]
		9	15.30	12.14	10.75	9.46[7]	8.24[6]	7.09[6]	5.99[6]	4.94[6]	3.94[3]
		10	13.49	9.99	8.51[7]	7.16[6]	5.90[6]	4.71[3]	3.59[3]	2.53[3]	1.52[3]
		12	10.01	6.29[6]	4.81[3]	3.47[3]	2.25[2]	1.11[2]	0.04[2]		
		14	7.28[7]	3.67[3]	2.27[2]	1.03[2]					
		16	5.30[6]	1.90[2]	0.61[2]						
362JS250-33, 50ksi	4	8	2.95	1.88	1.40[7]	0.95[6]	0.53[6]	0.12[3]			
		9	2.62	1.38[6]	0.85[6]	0.36[3]					
		10	2.27	0.91[6]	0.35[3]						
		12	1.61[6]	0.15[3]							
	6	8	2.73	1.34[6]	0.73[6]	0.17[3]					
		9	2.36	0.78[6]	0.12[3]						
		10	1.98[7]	0.28[3]							
	8	8	2.53	0.84[6]	0.12[3]						
		9	2.12[7]	0.24[3]							
	10	8	2.32	0.37[6]							

Light Steel Framing Openings

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings											
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)								
			5	15	20	25	30	35	40	45	50
362JS250-43, 50ksi	4	8	4.57	3.35	2.81	2.30[7]	1.81[6]	1.35[6]	0.90[6]	0.48[6]	0.07[3]
		9	4.11	2.69	2.08[6]	1.51[6]	0.98[6]	0.49[3]	0.02[3]		
		10	3.62	2.05[6]	1.40[6]	0.81[3]	0.26[3]				
		12	2.65[7]	0.97[3]	0.31[3]						
		14	1.83[6]	0.21[2]							
	6	8	4.32	2.74	2.05[7]	1.40[6]	0.80[6]	0.22[3]			
		9	3.81	2.00[6]	1.24[6]	0.55[3]					
		10	3.29	1.33[6]	0.53[3]						
		12	2.28[6]	0.24[2]							
	8	8	4.09	2.17[7]	1.35[6]	0.58[6]					
		9	3.54	1.38[6]	0.49[3]						
		10	2.98[7]	0.67[3]							
	10	8	3.86	1.63[6]	0.69[6]						
		9	3.27	0.80[6]							
		10	2.68[6]	0.07[3]							
362JS250-54, 50ksi	4	8	6.33	5.02	4.42	3.86	3.32[7]	2.81[6]	2.32[6]	1.85[6]	1.40[6]
		9	5.69	4.15	3.48	2.86[6]	2.28[6]	1.73[6]	1.21[6]	0.71[3]	0.23[3]
		10	5.02	3.31[7]	2.60[6]	1.95[6]	1.35[3]	0.79[3]	0.26[3]		
		12	3.69	1.88[6]	1.17[3]	0.53[3]					
		14	2.62[6]	0.87[3]	0.21[2]						
		16	1.84[6]	0.20[2]							
	6	8	6.07	4.35	3.59	2.87[7]	2.20[6]	1.57[6]	0.96[6]	0.38[3]	
		9	5.37	3.40[7]	2.56[6]	1.79[6]	1.08[3]	0.41[3]			
		10	4.66	2.52[6]	1.65[6]	0.86[3]	0.13[3]				
		12	3.29[7]	1.09[3]	0.23[2]						
		14	2.22[6]	0.13[2]							
	8	8	5.82	3.72	2.81[6]	1.97[6]	1.18[6]	0.43[3]			
		9	5.07	2.71[6]	1.73[6]	0.83[3]					
		10	4.32	1.80[6]	0.79[3]						
		12	2.93[6]	0.38[2]							
	10	8	5.57	3.13[7]	2.08[6]	1.12[6]	0.22[3]				
		9	4.78	2.07[6]	0.95[3]						
		10	4.00[7]	1.14[3]							
362JS250-68, 50ksi	4	8	8.30	6.99	6.39	5.81	5.26	4.74	4.23[7]	3.74[6]	3.27[6]
		9	7.49	5.94	5.25	4.61	4.01[7]	3.43[6]	2.89[6]	2.36[6]	1.86[6]
		10	6.64	4.91	4.17[7]	3.50[6]	2.87[6]	2.27[6]	1.71[3]	1.18[3]	0.67[3]
		12	4.98	3.11[6]	2.36[6]	1.69[3]	1.07[3]	0.49[2]			
		14	3.63[7]	1.80[3]	1.10[3]	0.47[2]					
		16	2.64[6]	0.92[2]	0.26[2]						
	6	8	8.04	6.31	5.54	4.80	4.11[7]	3.44[6]	2.81[6]	2.20[6]	1.61[6]
		9	7.18	5.17	4.30[7]	3.50[6]	2.75[6]	2.05[6]	1.38[3]	0.74[3]	0.13[3]
		10	6.28	4.09[7]	3.18[6]	2.34[6]	1.58[3]	0.86[3]	0.18[3]		
		12	4.58	2.27[6]	1.37[3]	0.56[2]					
		14	3.22[6]	1.01[2]	0.17[2]						
		16	2.25[3]	0.19[2]							
	8	8	7.79	5.67	4.74	3.86[6]	3.04[6]	2.25[6]	1.51[6]	0.79[3]	0.11[3]
		9	6.87	4.45[7]	3.43[6]	2.49[6]	1.62[3]	0.80[3]	0.02[3]		
		10	5.94	3.33[6]	2.27[6]	1.31[3]	0.42[3]				
		12	4.20[7]	1.53[3]	0.49[2]						
		14	2.85[6]	0.32[2]							
	10	8	7.54	5.06	3.98[7]	2.98[6]	2.04[6]	1.15[3]	0.30[3]		
		9	6.58	3.79[6]	2.62[6]	1.56[3]	0.57[3]				
		10	5.62	2.64[6]	1.44[3]	0.36[3]					
		12	3.85[6]	0.84[3]							
362JS250-97, 50ksi	4	8	12.21	10.95	10.35	9.79	9.24	8.71	8.19	7.69	7.20[7]
		9	11.10	9.58	8.89	8.23	7.61	7.02[7]	6.45[7]	5.90[6]	5.37[6]
		10	9.94	8.21	7.45	6.74	6.08[7]	5.45[6]	4.85[6]	4.28[6]	3.74[6]
		12	7.63	5.69[7]	4.89[6]	4.17[6]	3.50[3]	2.88[3]	2.29[3]	1.73[2]	1.20[2]
		14	5.71	3.78[6]	3.02[3]	2.33[3]	1.71[2]	1.13[2]	0.58[2]	0.07[2]	
		16	4.30[7]	2.45[3]	1.74[2]	1.11[2]	0.53[2]				
	6	8	11.96	10.28	9.51	8.77	8.06	7.39	6.73[7]	6.10[6]	5.49[6]
		9	10.80	8.80	7.92	7.09	6.31[7]	5.57[6]	4.86[6]	4.18[6]	3.53[6]
		10	9.59	7.36	6.40[7]	5.53[6]	4.71[6]	3.94[6]	3.21[3]	2.52[3]	1.85[3]
		12	7.22	4.80[6]	3.83[6]	2.95[3]	2.15[3]	1.40[2]	0.69[2]	0.03[2]	
		14	5.29[7]	2.93[3]	2.01[3]	1.20[2]	0.45[2]				
		16	3.88[6]	1.66[2]	0.81[2]	0.06[2]					
	8	8	11.72	9.65	8.71	7.81	6.97[7]	6.16[6]	5.38[6]	4.63[6]	3.91[6]
		9	10.50	8.08	7.02[7]	6.04[6]	5.12[6]	4.24[6]	3.42[3]	2.62[3]	1.87[3]
		10	9.25	6.57[7]	5.45[6]	4.42[6]	3.47[3]	2.58[3]	1.74[3]	0.94[2]	0.17[2]
		12	6.83	4.00[6]	2.88[3]	1.87[3]	0.94[2]	0.09[2]			
		14	4.90[6]	2.17[3]	1.13[2]	0.19[2]					
		16	3.51[3]	0.96[2]							
	10	8	11.48	9.04	7.94	6.91[7]	5.93[6]	5.00[6]	4.11[6]	3.25[6]	2.43[3]
		9	10.22	7.39	6.17[6]	5.05[6]	4.00[6]	3.02[3]	2.08[3]	1.19[3]	0.33[2]
		10	8.92	5.84[6]	4.57[6]	3.41[3]	2.33[3]	1.33[3]	0.39[2]		
		12	6.47[7]	3.26[3]	2.01[3]	0.88[2]					
		14	4.54[6]	1.48[2]	0.32[2]						
		16	3.17[3]	0.32[2]							

Light Steel Framing Openings

JamStud® Load Bearing Opening Allowable Axial Loads

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JamStud® Allowable Axial Loads for Load Bearing Openings										
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)							
			5	15	20	25	30	35	40	45	50
362JS350-68, 50ksi	4	8	8.93	7.66	7.07	6.50	5.94	5.41	4.89	4.39[7]	3.89[7]
		9	8.25	6.71	6.01	5.34	4.71	4.11[7]	3.53[6]	2.97[6]	2.43[6]
		10	7.60	5.79	5.00	4.26[7]	3.57[6]	2.91[6]	2.29[6]	1.70[6]	1.12[3]
		12	6.17	4.00[7]	3.11[6]	2.31[6]	1.58[3]	0.89[3]	0.24[2]		
		14	4.74	2.49[6]	1.61[3]	0.83[3]	0.11[2]				
		16	3.49[6]	1.34[3]	0.53[2]						
	6	8	8.68	7.00	6.22	5.47	4.76	4.08[7]	3.42[6]	2.78[6]	2.16[6]
		9	7.95	5.92	5.02	4.18[7]	3.39[6]	2.63[6]	1.91[6]	1.21[6]	0.55[3]
		10	7.23	4.90	3.91[7]	2.99[6]	2.14[6]	1.34[3]	0.57[3]		
		12	5.70	3.01[6]	1.94[3]	0.97[3]	0.09[2]				
		14	4.24[7]	1.51[3]	0.46[2]						
		16	3.00[6]	0.43[2]							
	8	8	8.44	6.36	5.41	4.51	3.65[7]	2.84[6]	2.05[6]	1.29[6]	0.56[6]
		9	7.65	5.18	4.11[7]	3.11[6]	2.17[6]	1.28[6]	0.43[3]		
		10	6.88	4.08[7]	2.91[6]	1.84[6]	0.85[3]				
		12	5.27	2.12[6]	0.89[3]						
		14	3.78[6]	0.64[2]							
	10	8	8.20	5.74	4.64	3.59[7]	2.61[6]	1.67[6]	0.77[6]		
		9	7.36	4.48[7]	3.24[6]	2.10[6]	1.03[3]	0.02[3]			
		10	6.54	3.32[6]	1.99[6]	0.78[3]					
		12	4.86[7]	1.31[3]							
362JS350-97, 50ksi	4	8	14.67	13.31	12.66	12.03	11.42	10.83	10.26	9.70	9.15
		9	13.65	11.95	11.17	10.42	9.71	9.03	8.37	7.74[7]	7.13[7]
		10	12.58	10.55	9.66	8.83	8.04	7.29[7]	6.58[6]	5.90[6]	5.24[6]
		12	9.82	7.50	6.54[7]	5.66[6]	4.85[6]	4.09[6]	3.37[3]	2.69[3]	2.05[3]
		14	7.44	5.09[6]	4.16[6]	3.32[3]	2.55[3]	1.84[3]	1.17[2]	0.54[2]	
		16	5.66	3.39[6]	2.51[3]	1.73[2]	1.02[2]	0.36[2]			
	6	8	14.41	12.58	11.7[3]	10.91	10.12	9.36	8.62	7.90	7.21[7]
		9	13.31	11.07	10.07	9.11	8.21	7.35[7]	6.53[6]	5.74[6]	4.98[6]
		10	12.17	9.55	8.43	7.38[7]	6.41[6]	5.49[6]	4.61[6]	3.78[6]	2.98[3]
		12	9.33	6.42[7]	5.25[6]	4.18[6]	3.20[3]	2.29[3]	1.43[3]	0.61[2]	
		14	6.93	4.05[6]	2.93[3]	1.93[3]	1.01[2]	0.16[2]			
		16	5.15[6]	2.41[3]	1.37[2]	0.44[2]					
	8	8	14.15	11.88	10.83	9.84	8.88	7.97	7.08[7]	6.23[6]	5.40[6]
		9	12.99	10.24	9.03	7.90	6.83[7]	5.81[6]	4.84[6]	3.91[6]	3.02[6]
		10	11.77	8.63	7.29[7]	6.07[6]	4.92[6]	3.85[6]	2.84[3]	1.87[3]	0.95[3]
		12	8.87	5.45[6]	4.09[6]	2.86[3]	1.73[3]	0.69[2]			
		14	6.45[7]	3.12[3]	1.84[3]	0.69[2]					
		16	4.69[6]	1.55[2]	0.36[2]						
	10	8	13.89	11.20	9.98	8.82	7.71[7]	6.65[7]	5.64[6]	4.66[6]	3.71[6]
		9	12.67	9.45	8.05	6.75[7]	5.53[6]	4.37[6]	3.27[6]	2.22[3]	1.22[3]
		10	11.39	7.75	6.24[6]	4.85[6]	3.56[6]	2.35[3]	1.21[3]	0.13[3]	
		12	8.43	4.56[6]	3.03[3]	1.66[3]	0.40[2]				
		14	6.02[6]	2.28[3]	0.85[2]						
		16	4.27[6]	0.76[2]							
362JS350-118, 50ksi	4	8	18.78	17.43	16.78	16.15	15.54	14.94	14.36	13.79	13.24
		9	17.22	15.56	14.78	14.04	13.33	12.64	11.98	11.34	10.71
		10	15.59	13.64	12.77	11.94	11.16	10.41	9.70[7]	9.02[7]	8.35[6]
		12	12.27	9.99	9.03	8.14[7]	7.32[6]	6.55[6]	5.82[6]	5.12[6]	4.46[3]
		14	9.40	7.05[7]	6.11[6]	5.25[6]	4.47[3]	3.73[3]	3.05[3]	2.39[2]	1.78[2]
		16	7.24	4.95[6]	4.05[3]	3.25[3]	2.52[2]	1.84[2]	1.20[2]	0.60[2]	0.03[2]
	6	8	18.52	16.70	15.84	15.02	14.22	13.44	12.69	11.96	11.25
		9	16.90	14.69	13.68	12.73	11.81	10.94	10.11[7]	9.30[7]	8.52[6]
		10	15.20	12.6[6]	11.55	10.51	9.53[7]	8.60[6]	7.72[6]	6.87[6]	6.06[6]
		12	11.80	8.91	7.72[6]	6.64[6]	5.64[6]	4.71[3]	3.83[3]	2.99[3]	2.20[2]
		14	8.89	6.00[6]	4.85[6]	3.82[3]	2.88[3]	2.00[2]	1.18[2]	0.41[2]	
		16	6.73[7]	3.95[3]	2.88[3]	1.92[2]	1.05[2]	0.24[2]			
	8	8	18.26	16.00	14.94	13.93	12.96	12.03	11.12	10.25[7]	9.40[7]
		9	16.58	13.86	12.64	11.49	10.41	9.37[7]	8.38[6]	7.43[6]	6.52[6]
		10	14.82	11.74	10.41	9.18[7]	8.03[6]	6.95[6]	5.92[6]	4.94[3]	4.00[3]
		12	11.35	7.93[7]	6.55[6]	5.29[6]	4.14[3]	3.07[3]	2.06[2]	1.10[2]	0.19[2]
		14	8.42	5.05[6]	3.73[3]	2.55[2]	1.48[2]	0.48[2]			
		16	6.27[6]	3.06[3]	1.84[2]	0.75[2]					
	10	8	18.01	15.31	14.07	12.89	11.77	10.68	9.64[7]	8.63[6]	7.65[6]
		9	16.26	13.07	11.65	10.33	9.08[7]	7.90[6]	6.77[6]	5.69[6]	4.66[6]
		10	14.46	10.88	9.35[7]	7.95[6]	6.65[6]	5.42[6]	4.26[3]	3.16[3]	2.10[3]
		12	10.92	7.02[6]	5.47[6]	4.06[3]	2.77[3]	1.57[2]	0.45[2]		
		14	7.98[7]	4.19[3]	2.72[3]	1.40[2]	0.21[2]				
		16	5.84[6]	2.26[2]	0.90[2]						

Light Steel Framing Openings

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings											
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)								
			5	15	20	25	30	35	40	45	50
400JS250-33, 50ksi	4	8	8.93	7.66	7.07	6.50	5.94	5.41	4.89	4.39[7]	3.89[7]
		9	8.25	6.71	6.01	5.34	4.71	4.11[7]	3.53[6]	2.97[6]	2.43[6]
		10	7.60	5.79	5.00	4.26[7]	3.57[6]	2.91[6]	2.29[6]	1.70[6]	1.12[3]
		12	6.17	4.00[7]	3.11[6]	2.31[6]	1.58[3]	0.89[3]	0.24[2]		
	6	8	8.68	7.00	6.22	5.47	4.76	4.08[7]	3.42[6]	2.78[6]	2.16[6]
		9	7.95	5.92	5.02	4.18[7]	3.39[6]	2.63[6]	1.91[6]	1.21[6]	0.55[3]
		10	7.23	4.90	3.91[7]	2.99[6]	2.14[6]	1.34[3]	0.57[3]		
	8	8	8.44	6.36	5.41	4.51	3.65[7]	2.84[6]	2.05[6]	1.29[6]	0.56[6]
		9	7.65	5.18	4.11[7]	3.11[6]	2.17[6]	1.28[6]	0.43[3]		
	10	8	8.20	5.74	4.64	3.59[7]	2.61[6]	1.67[6]	0.77[6]		
		9	7.36	4.48[7]	3.24[6]	2.10[6]	1.03[3]	0.02[3]			
400JS250-43, 50ksi	4	8	5.05	3.88	3.35	2.84	2.35[7]	1.88[6]	1.43[6]	1.00[6]	0.58[6]
		9	4.65	3.24	2.62	2.04[6]	1.50[6]	0.98[6]	0.48[6]	0.01[3]	
		10	4.19	2.60[7]	1.92[6]	1.29[6]	0.71[3]	0.16[3]			
		12	3.26	1.43[6]	0.70[3]	0.05[3]					
		14	2.36[6]	0.52[3]							
	6	8	4.82	3.28	2.59	1.94[7]	1.32[6]	0.73[6]	0.17[6]		
		9	4.36	2.55[7]	1.77[6]	1.04[6]	0.36[3]				
		10	3.86	1.84[6]	1.00[6]	0.23[3]					
		12	2.86[7]	0.62[3]							
	8	8	4.59	2.71	1.88[6]	1.11[6]	0.37[6]				
		9	4.09	1.90[6]	0.98[6]	0.13[3]					
		10	3.55	1.14[6]	0.16[3]						
	10	8	4.37	2.17[7]	1.21[6]	0.32[6]					
		9	3.83	1.30[6]	0.25[3]						
		10	3.25[7]	0.50[3]							
400JS250-54, 50ksi	4	8	6.93	5.69	5.11	4.56	4.04	3.53	3.04[7]	2.56[6]	2.10[6]
		9	6.46	4.94	4.26	3.62	3.02[7]	2.45[6]	1.90[6]	1.38[6]	0.87[6]
		10	5.89	4.13	3.38[7]	2.69[6]	2.04[6]	1.43[6]	0.85[3]	0.30[3]	
		12	4.59	2.59[6]	1.79[6]	1.06[3]	0.40[3]				
		14	3.39[7]	1.38[3]	0.61[3]						
		16	2.45[6]	0.54[2]							
	6	8	6.68	5.04	4.30	3.59	2.92[7]	2.27[6]	1.66[6]	1.06[6]	0.49[6]
		9	6.16	4.18	3.32[7]	2.52[6]	1.77[6]	1.06[6]	0.38[3]		
		10	5.53	3.29[7]	2.36[6]	1.50[6]	0.71[3]				
		12	4.15	1.69[6]	0.73[3]						
		14	2.94[6]	0.52[2]							
	8	8	6.45	4.43	3.53	2.68[6]	1.88[6]	1.11[6]	0.38[6]		
		9	5.86	3.47[7]	2.45[6]	1.50[6]	0.62[3]				
		10	5.18	2.52[6]	1.43[6]	0.44[3]					
		12	3.75[7]	0.89[3]							
	10	8	6.21	3.84	2.80[7]	1.82[6]	0.90[6]	0.03[3]			
		9	5.57	2.80[6]	1.64[6]	0.56[3]					
		10	4.85	1.81[6]	0.57[3]						
		12	3.38[6]	0.16[3]							
400JS250-68, 50ksi	4	8	9.48	8.18	7.58	7.00	6.44	5.89	5.37	4.86	4.37[7]
		9	8.75	7.17	6.46	5.78	5.15	4.54[7]	3.95[6]	3.39[6]	2.85[6]
		10	7.96	6.13	5.34	4.60[7]	3.91[6]	3.26[6]	2.65[6]	2.05[6]	1.49[3]
		12	6.30	4.18[7]	3.32[6]	2.55[6]	1.83[3]	1.16[3]	0.54[3]		
		14	4.71	2.59[6]	1.76[3]	1.02[3]	0.34[2]				
		16	3.48[6]	1.46[3]	0.69[2]						
	6	8	9.23	7.50	6.71	5.96	5.24	4.55[7]	3.89[6]	3.25[6]	2.62[6]
		9	8.43	6.37	5.46	4.61[7]	3.81[6]	3.05[6]	2.32[6]	1.63[6]	0.97[3]
		10	7.59	5.25	4.25[7]	3.34[6]	2.50[6]	1.70[3]	0.95[3]	0.23[3]	
		12	5.84	3.22[6]	2.18[3]	1.25[3]	0.39[2]				
		14	4.24[7]	1.66[3]	0.68[2]						
		16	3.02[6]	0.60[2]							
	8	8	8.98	6.85	5.89	4.99	4.13[7]	3.30[6]	2.51[6]	1.75[6]	1.02[6]
		9	8.13	5.62	4.54[7]	3.53[6]	2.58[6]	1.69[6]	0.85[3]	0.04[3]	
		10	7.23	4.43[7]	3.26[6]	2.20[6]	1.21[3]	0.29[3]			
		12	5.42	2.36[6]	1.16[3]	0.09[2]					
		14	3.81[6]	0.85[2]							
	10	8	8.73	6.23	5.11	4.07[7]	3.07[6]	2.13[6]	1.23[6]	0.36[3]	
		9	7.83	4.91[7]	3.67[6]	2.52[6]	1.45[3]	0.44[3]			
		10	6.89	3.67[6]	2.35[6]	1.15[3]	0.04[3]				
		12	5.02[7]	1.58[3]	0.24[2]						
		14	3.41[6]	0.10[2]							

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings										
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)							
			5	15	20	25	30	35	40	45	50
400JS250-97, 50ksi	4	8	14.06	12.81	12.21	11.64	11.08	10.54	10.00	9.49	8.98
		9	13.02	11.47	10.76	10.08	9.43	8.80	8.19	7.61[7]	7.04[7]
		10	11.90	10.08	9.27	8.51	7.79	7.11[7]	6.46[6]	5.83[6]	5.23[6]
		12	9.56	7.39	6.48[7]	5.65[6]	4.89[6]	4.17[6]	3.49[3]	2.85[3]	2.24[3]
		14	7.33	5.10[6]	4.21[6]	3.41[3]	2.67[3]	1.99[2]	1.35[2]	0.75[2]	0.17[2]
		16	5.57	3.42[6]	2.58[3]	1.84[2]	1.16[2]	0.53[2]			
	6	8	13.82	12.14	11.36	10.60	9.87	9.17	8.49	7.82	7.18[7]
		9	12.71	10.67	9.75	8.88	8.04	7.25[7]	6.49[6]	5.76[6]	5.05[6]
		10	11.53	9.18	8.15	7.19[7]	6.30[6]	5.45[6]	4.64[6]	3.87[6]	3.14[3]
		12	9.10	6.37[7]	5.26[6]	4.26[6]	3.33[3]	2.46[3]	1.65[3]	0.88[2]	0.15[2]
		14	6.84	4.10[6]	3.03[3]	2.07[3]	1.20[2]	0.38[2]			
		16	5.09[6]	2.49[3]	1.49[2]	0.60[2]					
	8	8	13.58	11.50	10.54	9.62	8.73	7.88	7.06[7]	6.27[6]	5.50[6]
		9	12.42	9.91	8.80	7.75	6.76[7]	5.82[6]	4.92[6]	4.06[6]	3.23[6]
		10	11.18	8.33	7.11[7]	5.98[6]	4.93[6]	3.94[6]	3.00[3]	2.11[3]	1.26[3]
		12	8.67	5.46[6]	4.17[6]	3.01[3]	1.94[3]	0.95[2]	0.02[2]		
		14	6.40[7]	3.22[3]	1.99[2]	0.89[2]					
		16	4.66[6]	1.66[2]	0.53[2]						
	10	8	13.34	10.87	9.74	8.67	7.65[7]	6.67[7]	5.72[6]	4.81[6]	3.93[6]
		9	12.13	9.19	7.90	6.69[6]	5.56[6]	4.49[6]	3.47[6]	2.49[3]	1.55[3]
		10	10.84	7.53	6.14[6]	4.86[6]	3.67[6]	2.55[3]	1.50[3]	0.50[3]	
		12	8.26	4.61[6]	3.17[3]	1.87[3]	0.68[2]				
		14	5.98[6]	2.41[3]	1.04[2]						
		16	4.26[6]	0.92[2]							
400JS350-68, 50ksi	4	8	9.96	8.74	8.15	7.59	7.04	6.51	5.99	5.48	4.98
		9	9.37	7.85	7.14	6.47	5.82	5.20	4.60[7]	4.02[7]	3.46[6]
		10	8.71	6.91	6.10	5.33	4.61[7]	3.92[6]	3.27[6]	2.64[6]	2.03[6]
		12	7.37	5.07	4.12[6]	3.25[6]	2.44[6]	1.68[3]	0.97[3]	0.29[3]	
		14	5.89	3.39[6]	2.40[6]	1.52[3]	0.71[3]				
		16	4.54[7]	2.05[3]	1.09[3]	0.25[2]					
	6	8	9.72	8.08	7.31	6.57	5.86	5.17	4.49	3.84[7]	3.21[6]
		9	9.07	7.06	6.14	5.28	4.46[7]	3.67[6]	2.91[6]	2.18[6]	1.48[6]
		10	8.35	6.00	4.97	4.01[6]	3.11[6]	2.25[6]	1.44[6]	0.67[3]	
		12	6.88	4.01[6]	2.84[6]	1.77[3]	0.80[3]				
		14	5.34	2.29[6]	1.10[3]	0.05[2]					
		16	3.98[6]	0.98[3]							
	8	8	9.49	7.45	6.51	5.60	4.74	3.90[7]	3.09[6]	2.31[6]	1.56[6]
		9	8.78	6.31	5.20	4.17[7]	3.18[6]	2.25[6]	1.35[6]	0.50[3]	
		10	8.00	5.15	3.92[6]	2.79[6]	1.73[6]	0.74[3]			
		12	6.43	3.04[6]	1.68[3]	0.46[3]					
		14	4.83[7]	1.31[3]							
		16	3.47[6]	0.05[2]							
	10	8	9.26	6.84	5.73	4.68	3.67[7]	2.70[6]	1.77[6]	0.87[6]	
		9	8.49	5.59	4.31[7]	3.11[6]	1.99[6]	0.92[6]			
		10	7.66	4.35[7]	2.95[6]	1.66[6]	0.46[3]				
		12	6.00	2.15[6]	0.63[3]						
		14	4.37[6]	0.42[2]							
400JS350-97, 50ksi	4	8	16.56	15.25	14.62	14.00	13.40	12.81	12.24	11.68	11.13
		9	15.55	13.90	13.13	12.39	11.67	10.98	10.31	9.65	9.02
		10	14.49	12.50	11.59	10.74	9.93	9.15	8.40	7.69[7]	6.99[6]
		12	12.17	9.62	8.55	7.56[7]	6.65[6]	5.79[6]	4.98[6]	4.20[6]	3.47[3]
		14	9.48	6.80[7]	5.73[6]	4.76[6]	3.87[3]	3.04[3]	2.26[3]	1.52[2]	0.82[2]
		16	7.28	4.67[6]	3.65[3]	2.74[3]	1.91[2]	1.14[2]	0.42[2]		
	6	8	16.31	14.54	13.70	12.89	12.10	11.33	10.59	9.86	9.15
		9	15.23	13.04	12.03	11.06	10.14	9.26	8.40	7.58[7]	6.78[6]
		10	14.09	11.48	10.33	9.24	8.22[7]	7.25[7]	6.33[6]	5.44[6]	4.59[6]
		12	11.63	8.42	7.10[7]	5.89[6]	4.78[6]	3.74[3]	2.76[3]	1.83[3]	0.95[3]
		14	8.90	5.60[6]	4.30[6]	3.14[3]	2.07[3]	1.08[2]	0.16[2]		
		16	6.70	3.53[3]	2.31[3]	1.23[2]	0.24[2]				
	8	8	16.06	13.85	12.81	11.82	10.8[6]	9.93	9.03	8.15	7.30[7]
		9	14.92	12.21	10.98	9.82	8.71	7.65[7]	6.64[6]	5.67[6]	4.73[6]
		10	13.71	10.53	9.15	7.86[7]	6.66[6]	5.52[6]	4.43[6]	3.40[6]	2.41[3]
		12	11.13	7.33[7]	5.79[6]	4.39[6]	3.11[3]	1.92[3]	0.79[3]		
		14	8.36	4.53[6]	3.04[3]	1.70[3]	0.49[2]				
		16	6.17[6]	2.52[3]	1.14[2]						
	10	8	15.81	13.18	11.96	10.79	9.67	8.59	7.54[7]	6.53[6]	5.55[6]
		9	14.61	11.41	9.98	8.63	7.36[7]	6.15[6]	4.99[6]	3.88[6]	2.81[6]
		10	13.33	9.63	8.04[7]	6.57[6]	5.20[6]	3.91[6]	2.69[3]	1.52[3]	0.40[3]
		12	10.65	6.32[6]	4.59[6]	3.02[3]	1.59[3]	0.26[2]			
		14	7.86[7]	3.55[3]	1.89[3]	0.40[2]					
		16	5.68[6]	1.61[2]	0.07[2]						

Light Steel Framing Openings

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings											
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)								
			5	15	20	25	30	35	40	45	50
400JS350-118, 50ksi	4	8	21.48	20.16	19.52	18.90	18.29	17.69	17.11	16.53	15.97
		9	20.02	18.36	17.58	16.83	16.10	15.39	14.70	14.03	13.38
		10	18.45	16.47	15.56	14.69	13.86	13.07	12.31	11.57	10.86[7]
		12	15.15	12.66	11.59	10.60	9.68[7]	8.81[6]	7.99[6]	7.20[6]	6.45[6]
		14	11.92	9.25	8.17[7]	7.18[6]	6.27[6]	5.42[6]	4.62[3]	3.87[3]	3.15[3]
		16	9.26	6.62[6]	5.59[6]	4.65[3]	3.80[3]	3.01[3]	2.262	1.562	0.90[2]
	6	8	21.23	19.44	18.59	17.77	16.96	16.18	15.41	14.67	13.94
		9	19.70	17.49	16.46	15.48	14.53	13.62	12.74	11.89	11.07[7]
		10	18.06	15.45	14.27	13.17	12.12	11.12	10.17[7]	9.25[6]	8.37[6]
		12	14.64	11.46	10.13	8.92[6]	7.79[6]	6.73[6]	5.73[6]	4.78[3]	3.87[3]
		14	11.35	8.04[7]	6.71[6]	5.52[6]	4.43[3]	3.41[3]	2.462	1.56[2]	0.70[2]
		16	8.68	5.46[6]	4.22[3]	3.10[3]	2.08[2]	1.14[2]	0.262		
	8	8	20.98	18.75	17.69	16.67	15.69	14.73	13.80	12.90	12.02
		9	19.38	16.64	15.39	14.20	13.06	11.97	10.92[7]	9.91[7]	8.93[6]
		10	17.68	14.48	13.07	11.75	10.51[7]	9.34[6]	8.21[6]	7.14[6]	6.11[6]
		12	14.15	10.37	8.81[6]	7.39[6]	6.09[6]	4.86[3]	3.71[3]	2.62[3]	1.58[2]
		14	10.82	6.94[6]	5.42[6]	4.05[3]	2.80[3]	1.64[2]	0.552		
		16	8.15[7]	4.43[3]	3.01[3]	1.73[2]	0.58[2]				
	10	8	20.73	18.06	16.82	15.62	14.47	13.35	12.27	11.22	10.20[7]
		9	19.07	15.83	14.37	12.98	11.67	10.41[7]	9.21[6]	8.05[6]	6.94[6]
		10	17.30	13.56	11.94	10.43[7]	9.01[6]	7.67[6]	6.40[6]	5.19[6]	4.02[3]
		12	13.68	9.35[7]	7.59[6]	6.00[6]	4.53[3]	3.16[3]	1.87[3]	0.66[2]	
		14	10.32	5.94[6]	4.24[3]	2.71[3]	1.32[2]	0.03[2]			
		16	7.66[6]	3.49[3]	1.91[2]	0.50[2]					
550JS250-33, 50ksi	4	8	4.11	3.26	2.85	2.45	2.06	1.67	1.30	0.93	0.56[7]
		9	3.91	2.85	2.35	1.86	1.39	0.94[7]	0.50[6]	0.07[6]	
		10	3.67	2.40	1.81	1.26[7]	0.72[6]	0.21[6]			
		12	3.13	1.48[7]	0.76[6]	0.10[6]					
		14	2.55	0.63[6]							
	6	8	3.95	2.80	2.25	1.72	1.20	0.70[7]	0.21[6]		
		9	3.70	2.28	1.63	0.99[7]	0.39[6]				
		10	3.42	1.74	0.99[7]	0.27[6]					
		12	2.80	0.68[6]							
	8	8	3.79	2.35	1.67	1.02	0.39[7]				
		9	3.50	1.74	0.94[7]	0.17[6]					
		10	3.18	1.12[7]	0.21[6]						
	10	8	3.63	1.91	1.11	0.34[7]					
		9	3.30	1.22[7]	0.28[6]						
		10	2.94	0.53[6]							
550JS250-43, 50ksi	4	8	6.17	5.29	4.87	4.45	4.04	3.63	3.24	2.85	2.46
		9	5.93	4.82	4.30	3.78	3.28	2.80	2.32	1.86[7]	1.41[7]
		10	5.66	4.31	3.68	3.08	2.50	1.94[7]	1.40[6]	0.88[6]	0.37[6]
		12	5.01	3.19	2.40[7]	1.65[6]	0.96[6]	0.29[6]			
		14	4.26	2.09[6]	1.19[6]	0.37[3]					
		16	3.45	1.10[6]	0.17[3]						
	6	8	6.01	4.81	4.24	3.68	3.14	2.61	2.08	1.57[7]	1.07[7]
		9	5.72	4.23	3.53	2.86	2.21	1.58[7]	0.97[6]	0.38[6]	
		10	5.39	3.60	2.78	2.01[7]	1.27[6]	0.56[6]			
		12	4.64	2.30[7]	1.30[6]	0.37[6]					
		14	3.80	1.08[6]							
		16	2.93[6]	0.06[3]							
	8	8	5.84	4.34	3.63	2.94	2.27	1.62[7]	0.98[7]	0.36[6]	
		9	5.51	3.66	2.80	1.98[7]	1.19[6]	0.43[6]			
		10	5.14	2.93	1.94[7]	1.01[6]	0.12[6]				
		12	4.28	1.48[6]	0.29[6]						
		14	3.37[7]	0.18[3]							
	10	8	5.67	3.88	3.04	2.22	1.44[7]	0.67[6]			
		9	5.30	3.10	2.09[7]	1.13[6]	0.22[6]				
		10	4.88	2.29[7]	1.14[6]	0.06[6]					
		12	3.94	0.70[6]							

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings										
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)							
			5	15	20	25	30	35	40	45	50
550JS250-54, 50ksi	4	8	8.28	7.41	6.99	6.58	6.17	5.77	5.37	4.98	4.59
		9	8.00	6.90	6.37	5.86	5.36	4.87	4.39	3.92	3.46
		10	7.67	6.32	5.69	5.08	4.49	3.92	3.36[7]	2.82[7]	2.30[6]
		12	6.97	5.10	4.27	3.49[7]	2.75[6]	2.05[6]	1.38[6]	0.73[3]	0.12[3]
		14	6.16	3.83[7]	2.85[6]	1.96[6]	1.13[3]	0.36[3]			
		16	5.14	2.56[6]	1.54[3]	0.62[3]					
	6	8	8.11	6.94	6.37	5.82	5.27	4.74	4.21	3.70	3.19
		9	7.79	6.31	5.61	4.93	4.27	3.63	3.00[7]	2.40[7]	1.80[6]
		10	7.41	5.61	4.78	3.99	3.23[7]	2.49[6]	1.79[6]	1.10[6]	0.44[6]
		12	6.59	4.17	3.11[6]	2.13[6]	1.21[6]	0.35[3]			
		14	5.67	2.74[6]	1.54[6]	0.45[3]					
		16	4.57[7]	1.42[3]	0.19[3]						
	8	8	7.95	6.48	5.77	5.08	4.40	3.74	3.10	2.47[7]	1.85[7]
		9	7.58	5.73	4.87	4.03	3.23	2.45[7]	1.70[6]	0.96[6]	0.25[6]
		10	7.15	4.93	3.92	2.96[7]	2.04[6]	1.16[6]	0.32[6]		
		12	6.23	3.30[7]	2.05[6]	0.89[6]					
		14	5.21	1.75[6]	0.36[3]						
		16	4.06[6]	0.41[3]							
	10	8	7.79	6.02	5.17	4.35	3.56	2.78	2.02[7]	1.28[6]	0.56[6]
		9	7.37	5.17	4.15	3.17	2.23[7]	1.33[6]	0.45[6]		
		10	6.90	4.27	3.09[7]	1.98[6]	0.92[6]				
		12	5.88	2.48[6]	1.05[6]						
		14	4.77[7]	0.84[3]							
550JS250-68, 50ksi	4	8	11.98	11.05	10.59	10.14	9.70	9.26	8.83	8.40	7.98
		9	11.64	10.44	9.87	9.30	8.75	8.21	7.68	7.16	6.65
		10	11.26	9.76	9.06	8.38	7.72	7.08	6.45	5.85	5.26[7]
		12	10.08	8.02	7.10	6.23	5.41[7]	4.63[6]	3.89[6]	3.17[6]	2.48[6]
		14	8.70	6.19	5.14[7]	4.17[6]	3.27[6]	2.43[6]	1.63[3]	0.87[3]	0.15[3]
		16	7.26	4.51[6]	3.41[6]	2.42[3]	1.50[3]	0.65[3]			
	6	8	11.80	10.53	9.92	9.31	8.72	8.14	7.56	7.00	6.44
		9	11.41	9.79	9.02	8.28	7.55	6.84	6.15	5.47	4.81[7]
		10	10.97	8.97	8.04	7.15	6.30	5.48	4.68[7]	3.91[6]	3.16[6]
		12	9.67	6.99	5.82	4.73[6]	3.70[6]	2.74[6]	1.81[6]	0.93[3]	0.09[3]
		14	8.17	5.01[7]	3.71[6]	2.53[6]	1.44[3]	0.41[3]			
		16	6.66	3.28[6]	1.95[3]	0.76[3]					
	8	8	11.63	10.03	9.26	8.51	7.77	7.05	6.34	5.65	4.9[7]
		9	11.19	9.16	8.21	7.29	6.40	5.53	4.69[7]	3.88[7]	3.08[6]
		10	10.68	8.21	7.08	6.00	4.97[7]	3.98[6]	3.03[6]	2.11[6]	1.23[6]
		12	9.27	6.03	4.63[6]	3.35[6]	2.14[6]	1.01[3]			
		14	7.68	3.94[6]	2.43[6]	1.06[3]					
		16	6.11[7]	2.18[3]	0.65[3]						
	10	8	11.45	9.53	8.61	7.72	6.85	6.00	5.16	4.35[7]	3.55[7]
		9	10.96	8.55	7.42	6.33	5.29	4.28[7]	3.31[6]	2.36[6]	1.44[6]
		10	10.40	7.47	6.15	4.90[7]	3.71[6]	2.57[6]	1.48[6]	0.43[6]	
		12	8.88	5.12[7]	3.52[6]	2.06[6]	0.70[3]				
		14	7.21	2.95[6]	1.25[3]						
		16	5.60[6]	1.18[3]							
550JS250-97, 50ksi	4	8	19.01	18.05	17.57	17.10	16.64	16.18	15.72	15.27	14.82
		9	18.40	17.15	16.55	15.95	15.37	14.80	14.23	13.68	13.13
		10	17.68	16.13	15.39	14.67	13.97	13.28	12.61	11.96	11.32
		12	15.97	13.77	12.77	11.82	10.92	10.05	9.22[7]	8.42[7]	7.65[6]
		14	13.98	11.22	10.03	8.94[7]	7.92[6]	6.96[6]	6.05[6]	5.19[6]	4.36[3]
		16	11.88	8.76	7.50[6]	6.36[6]	5.31[6]	4.33[3]	3.41[3]	2.54[3]	1.71[2]
	6	8	18.83	17.51	16.87	16.23	15.61	14.99	14.38	13.78	13.19
		9	18.16	16.47	15.66	14.87	14.10	13.34	12.59	11.87	11.15
		10	17.38	15.30	14.32	13.37	12.45	11.56	10.70	9.86	9.04[7]
		12	15.54	12.65	11.37	10.16	9.02[7]	7.94[6]	6.90[6]	5.91[6]	4.96[6]
		14	13.41	9.89	8.42[7]	7.086	5.83[6]	4.66[6]	3.56[3]	2.51[3]	1.51[3]
		16	11.20	7.35[6]	5.82[6]	4.45[3]	3.19[3]	2.02[3]	0.92[2]		
	8	8	18.65	16.98	16.18	15.38	14.60	13.84	13.08	12.34	11.61
		9	17.92	15.81	14.80	13.82	12.86	11.93	11.03	10.14	9.27
		10	17.09	14.49	13.28	12.12	11.01	9.93	8.89[7]	7.88[7]	6.91[6]
		12	15.11	11.59	10.05	8.62[7]	7.27[6]	6.00[6]	4.79[6]	3.63[3]	2.52[3]
		14	12.87	8.68[7]	6.96[6]	5.40[6]	3.95[3]	2.61[3]	1.34[3]	0.14[2]	
		16	10.58	6.09[6]	4.33[3]	2.75[3]	1.31[2]				
	10	8	18.47	16.46	15.50	14.55	13.62	12.71	11.82	10.94	10.08
		9	17.69	15.16	13.96	12.80	11.67	10.58	9.52	8.48[7]	7.47[7]
		10	16.80	13.71	12.29	10.93	9.63	8.38[7]	7.18[6]	6.02[6]	4.90[6]
		12	14.70	10.59	8.82[7]	7.18[6]	5.65[6]	4.20[6]	2.83[3]	1.52[3]	0.27[3]
		14	12.35	7.56[6]	5.61[6]	3.86[3]	2.24[3]	0.73[2]			
		16	10.00	4.93[6]	2.97[3]	1.21[2]					

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings											
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)								
			5	15	20	25	30	35	40	45	50
550JS250-118, 50ksi	4	8	24.23	23.19	22.68	22.17	21.67	21.17	20.68	20.19	19.71
		9	23.46	22.11	21.46	20.81	20.18	19.55	18.94	18.33	17.74
		10	22.56	20.87	20.06	19.28	18.51	17.76	17.02	16.30	15.60
		12	20.41	17.99	16.88	15.83	14.83	13.86	12.94	12.05	11.19[7]
		14	17.90	14.82	13.50	12.28	11.14[7]	10.06[7]	9.04[6]	8.07[6]	7.14[6]
		16	15.20	11.72	10.31[7]	9.03[6]	7.85[6]	6.76[6]	5.73[3]	4.75[3]	3.82[3]
	6	8	24.04	22.62	21.92	21.23	20.56	19.89	19.23	18.57	17.93
		9	23.20	21.38	20.49	19.63	18.79	17.96	17.15	16.35	15.57
		10	22.24	19.96	18.89	17.85	16.84	15.86	14.91	13.99	13.08
		12	19.93	16.75	15.32	13.98	12.71	11.51[7]	10.36[7]	9.25[6]	8.18[6]
		14	17.27	13.34	11.70	10.19[7]	8.80[6]	7.49[6]	6.25[6]	5.08[3]	3.96[3]
		16	14.45	10.14[7]	8.43[6]	6.89[6]	5.48[3]	4.17[3]	2.94[3]	1.78[2]	0.68[2]
	8	8	23.84	22.05	21.1[7]	20.31	19.47	18.63	17.81	17.01	16.21
		9	22.95	20.65	19.55	18.48	17.44	16.42	15.43	14.46	13.50
		10	21.92	19.08	17.76	16.48	15.26	14.07	12.92	11.81	10.72[7]
		12	19.47	15.57	13.86	12.27	10.77[7]	9.35[6]	8.00[6]	6.70[6]	5.46[6]
		14	16.66	11.98	10.06[7]	8.31[6]	6.69[6]	5.18[3]	3.76[3]	2.41[3]	1.13[3]
		16	13.75	8.73[6]	6.76[6]	4.99[3]	3.38[3]	1.88[2]	0.48[2]		
	10	8	23.65	21.48	20.43	19.41	18.40	17.41	16.44	15.48	14.54
		9	22.70	19.94	18.64	17.37	16.14	14.94	13.77	12.64	11.53
		10	21.60	18.22	16.66	15.17	13.74	12.36	11.03[7]	9.74[7]	8.50[6]
		12	19.01	14.46	12.49	10.67[7]	8.96[6]	7.34[6]	5.81[6]	4.35[3]	2.95[3]
		14	16.08	10.72[7]	8.55[6]	6.58[6]	4.77[3]	3.08[3]	1.49[3]		
		16	13.10	7.43[6]	5.23[3]	3.27[3]	1.47[2]				
550JS350-68, 50ksi	4	8	12.26	11.41	10.99	10.58	10.16	9.76	9.35	8.96	8.56
		9	11.91	10.82	10.29	9.77	9.26	8.76	8.26	7.77	7.29
		10	11.50	10.16	9.51	8.89	8.27	7.67	7.08	6.51	5.94
		12	10.55	8.65	7.78	6.95	6.15	5.38[7]	4.64[7]	3.92[6]	3.23[6]
		14	9.43	7.01	5.96	4.97[7]	4.05[6]	3.17[6]	2.34[6]	1.55[3]	0.78[3]
		16	8.20	5.39[7]	4.23[6]	3.16[6]	2.18[3]	1.26[3]	0.40[3]		
	6	8	12.10	10.94	10.37	9.81	9.25	8.71	8.17	7.64	7.11
		9	11.70	10.23	9.52	8.82	8.14	7.47	6.81	6.17	5.53
		10	11.25	9.44	8.58	7.74	6.94	6.15	5.39	4.64[7]	3.91[7]
		12	10.18	7.67	6.54	5.47[7]	4.46[6]	3.49[6]	2.56[6]	1.66[6]	0.80[3]
		14	8.94	5.83	4.50[6]	3.28[6]	2.14[6]	1.07[3]	0.05[3]		
		16	7.61	4.09[6]	2.66[6]	1.37[3]	0.19[3]				
	8	8	11.94	10.47	9.76	9.06	8.36	7.68	7.01	6.35	5.70
		9	11.50	9.64	8.76	7.89	7.05	6.22	5.42	4.63	3.86[7]
		10	10.99	8.73	7.67	6.65	5.66	4.71[7]	3.78[6]	2.88[6]	2.01[6]
		12	9.81	6.74	5.38[7]	4.10[6]	2.89[6]	1.74[6]	0.65[3]		
		14	8.46	4.74[6]	3.17[6]	1.74[3]	0.41[3]				
		16	7.05	2.91[6]	1.26[3]						
	10	8	11.78	10.01	9.15	8.32	7.49	6.68	5.89	5.11	4.34
		9	11.29	9.07	8.01	6.99	5.99	5.02	4.08[7]	3.16[6]	2.26[6]
		10	10.74	8.04	6.79	5.59	4.44[7]	3.33[6]	2.26[6]	1.22[6]	0.21[6]
		12	9.46	5.86	4.28[6]	2.81[6]	1.42[6]	0.12[3]			
		14	8.01	3.71[6]	1.94[3]	0.32[3]					
		16	6.52[7]	1.83[3]							
550JS350-97, 50ksi	4	8	21.72	20.72	20.23	19.74	19.25	18.77	18.30	17.83	17.36
		9	21.17	19.88	19.25	18.62	18.01	17.41	16.81	16.22	15.64
		10	20.41	18.80	18.02	17.27	16.52	15.80	15.08	14.39	13.70
		12	18.67	16.35	15.28	14.26	13.28	12.33	11.42	10.55	9.69[7]
		14	16.68	13.68	12.37	11.15	10.01	8.93[7]	7.90[6]	6.92[6]	5.97[6]
		16	14.59	11.06	9.61	8.28[6]	7.06[6]	5.92[6]	4.85[6]	3.83[3]	2.86[3]
	6	8	21.53	20.17	19.50	18.83	18.18	17.53	16.89	16.26	15.64
		9	20.92	19.17	18.32	17.48	16.66	15.86	15.07	14.29	13.53
		10	20.11	17.93	16.89	15.89	14.91	13.96	13.03	12.12	11.23
		12	18.21	15.15	13.76	12.45	11.20	10.01	8.86[7]	7.76[6]	6.70[6]
		14	16.07	12.21	10.57	9.06[7]	7.65[6]	6.32[6]	5.07[6]	3.87[3]	2.73[3]
		16	13.84	9.43[7]	7.66[6]	6.06[6]	4.59[3]	3.22[3]	1.93[3]	0.72[2]	
	8	8	21.34	19.62	18.77	17.94	17.13	16.32	15.52	14.74	13.96
		9	20.68	18.47	17.41	16.37	15.35	14.36	13.39	12.44	11.50
		10	19.80	17.08	15.80	14.56	13.36	12.20	11.07	9.98	8.91[7]
		12	17.77	14.01	12.33	10.76	9.28[7]	7.86[6]	6.51[6]	5.22[6]	3.97[6]
		14	15.48	10.86	8.93[7]	7.16[6]	5.51[6]	3.98[3]	2.52[3]	1.15[3]	
		16	13.14	7.97[6]	5.92[6]	4.08[3]	2.39[3]	0.83[3]			
	10	8	21.15	19.07	18.06	17.07	16.09	15.13	14.18	13.25	12.33
		9	20.44	17.78	16.52	15.28	14.08	12.91	11.77	10.65	9.56
		10	19.50	16.25	14.73	13.28	11.88	10.52	9.21[7]	7.94[7]	6.71[6]
		12	17.33	12.92	10.98	9.17[7]	7.47[6]	5.86[6]	4.32[6]	2.85[6]	1.44[3]
		14	14.92	9.60[7]	7.40[6]	5.40[6]	3.55[3]	1.83[3]	0.20[3]		
		16	12.48	6.63[6]	4.33[3]	2.28[3]	0.40[2]				

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings										
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)							
			5	15	20	25	30	35	40	45	50
550JS350-118, 50ksi	4	8	28.52	27.50	27.00	26.50	26.01	25.52	25.04	24.55	24.07
		9	27.74	26.43	25.78	25.15	24.52	23.90	23.29	22.68	22.09
		10	26.87	25.21	24.41	23.62	22.85	22.10	21.35	20.62	19.91
		12	24.88	22.42	21.27	20.18	19.13	18.12	17.14	16.19	15.27
		14	22.33	19.07	17.64	16.32	15.07	13.89	12.77[7]	11.70[6]	10.67[6]
		16	19.23	15.44	13.88	12.46[7]	11.15[6]	9.92[6]	8.76[6]	7.66[6]	6.62[3]
	6	8	28.32	26.94	26.26	25.58	24.91	24.25	23.60	22.95	22.31
		9	27.49	25.70	24.83	23.98	23.14	22.31	21.49	20.69	19.90
		10	26.55	24.31	23.23	22.19	21.17	20.17	19.20	18.25	17.32
		12	24.40	21.14	19.65	18.24	16.90	15.61	14.38	13.19[7]	12.04[7]
		14	21.66	17.47	15.69	14.04	12.50[7]	11.05[6]	9.68[6]	8.37[6]	7.13[6]
		16	18.42	13.70	11.79[7]	10.07[6]	8.48[6]	7.01[6]	5.62[3]	4.31[3]	3.06[3]
	8	8	28.13	26.38	25.52	24.67	23.84	23.01	22.19	21.39	20.59
		9	27.25	24.99	23.90	22.83	21.79	20.76	19.76	18.77	17.80
		10	26.24	23.43	22.10	20.80	19.55	18.34	17.15	16.00	14.87
		12	23.93	19.91	18.12	16.43	14.82	13.30[7]	11.84[7]	10.44[6]	9.09[6]
		14	21.03	16.00	13.89	11.96[7]	10.17[6]	8.49[6]	6.91[6]	5.40[3]	3.96[3]
		16	17.67	12.12[7]	9.92[6]	7.93[6]	6.11[3]	4.42[3]	2.84[3]	1.34[2]	
	10	8	27.94	25.83	24.79	23.78	22.78	21.79	20.82	19.86	18.91
		9	27.00	24.29	22.98	21.72	20.48	19.26	18.08	16.92	15.78
		10	25.93	22.57	20.99	19.47	18.00	16.57	15.19	13.85	12.55[7]
		12	23.46	18.75	16.66	14.71	12.87[7]	11.13[6]	9.47[6]	7.87[6]	6.34[6]
		14	20.42	14.62	12.23[7]	10.05[6]	8.03[6]	6.14[3]	4.37[3]	2.68[3]	1.07[3]
		16	16.96	10.68[6]	8.21[6]	5.99[3]	3.96[3]	2.08[2]	0.32[2]		
600JS250-33, 50ksi	4	8	4.29	3.49	3.11	2.73	2.36	1.99	1.63	1.28	0.93
		9	4.11	3.11	2.64	2.17	1.72	1.28	0.85[7]	0.43[7]	0.02[6]
		10	3.90	2.69	2.13	1.59	1.07[7]	0.56[6]	0.07[6]		
		12	3.41	1.81	1.09[6]	0.42[6]					
		14	2.86	0.93[6]	0.12[6]						
		16	2.29[7]	0.16[3]							
	6	8	4.14	3.06	2.54	2.04	1.54	1.06	0.58	0.12[7]	
		9	3.91	2.58	1.95	1.34	0.75[7]	0.18[6]			
		10	3.66	2.06	1.33	0.62[6]					
		12	3.09	1.00[6]	0.10[6]						
		14	2.46	0.02[6]							
	8	8	3.99	2.64	1.99	1.37	0.76	0.16[7]			
		9	3.73	2.06	1.28	0.54[7]					
		10	3.43	1.46	0.56[6]						
		12	2.78	0.26[6]							
	10	8	3.84	2.22	1.45	0.71					
		9	3.54	1.56	0.64[7]						
		10	3.21	0.87[7]							
600JS250-43, 50ksi	4	8	6.39	5.58	5.19	4.80	4.41	4.03	3.66	3.29	2.92
		9	6.19	5.16	4.67	4.18	3.71	3.25	2.79	2.35	1.91
		10	5.95	4.69	4.10	3.52	2.96	2.42	1.89[7]	1.38[7]	0.88[6]
		12	5.37	3.64	2.87	2.13[7]	1.43[6]	0.77[6]	0.13[6]		
		14	4.69	2.55[7]	1.64[6]	0.80[6]	0.02[3]				
		16	3.96	1.54[6]	0.56[3]						
	6	8	6.24	5.14	4.60	4.08	3.57	3.06	2.56	2.08	1.59
		9	5.99	4.61	3.95	3.31	2.68	2.08	1.48[7]	0.91[7]	0.34[6]
		10	5.70	4.02	3.24	2.49	1.76[7]	1.07[6]	0.39[6]		
		12	5.03	2.77	1.78[6]	0.85[6]					
		14	4.25	1.54[6]	0.41[6]						
		16	3.43[7]	0.44[3]							
	8	8	6.09	4.70	4.03	3.38	2.74	2.12	1.51	0.91[7]	0.32[7]
		9	5.80	4.06	3.25	2.46	1.70[7]	0.96[7]	0.24[6]		
		10	5.47	3.38	2.42	1.51[7]	0.64[6]				
		12	4.69	1.95[7]	0.77[6]						
		14	3.83	0.60[6]							
	10	8	5.93	4.27	3.47	2.70	1.94	1.21[7]	0.49[7]		
		9	5.60	3.54	2.57	1.64[7]	0.75[6]				
		10	5.23	2.76	1.64[7]	0.57[6]					
		12	4.37	1.18[6]							

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings										
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)							
			5	15	20	25	30	35	40	45	50
600JS250-54, 50ksi	4	8	8.57	7.78	7.39	7.01	6.63	6.25	5.88	5.51	5.15
		9	8.34	7.33	6.84	6.36	5.89	5.42	4.97	4.52	4.08
		10	8.06	6.81	6.22	5.64	5.08	4.53	3.99	3.47	2.95[7]
		12	7.38	5.64	4.84	4.08	3.36[7]	2.67[6]	2.00[6]	1.36[6]	0.74[6]
		14	6.66	4.42	3.46[7]	2.56[6]	1.72[6]	0.93[3]	0.18[3]		
		16	5.83	3.21[6]	2.14[6]	1.17[3]	0.27[3]				
	6	8	8.42	7.35	6.82	6.30	5.79	5.29	4.79	4.30	3.82
		9	8.14	6.78	6.12	5.48	4.85	4.24	3.64	3.05	2.48[7]
		10	7.82	6.14	5.36	4.59	3.86	3.14[7]	2.45[7]	1.78[6]	1.12[6]
		12	7.03	4.74	3.72[7]	2.75[6]	1.84[6]	0.97[6]	0.14[3]		
		14	6.20	3.34[7]	2.14[6]	1.03[6]					
		16	5.27	2.01[6]	0.71[3]						
	8	8	8.28	6.91	6.25	5.61	4.97	4.35	3.73	3.13	2.53
		9	7.95	6.24	5.42	4.63	3.86	3.11	2.38[7]	1.66[6]	0.96[6]
		10	7.58	5.50	4.53	3.60	2.70[7]	1.84[6]	1.00[6]	0.20[6]	
		12	6.70	3.90	2.67[6]	1.52[6]	0.44[6]				
		14	5.76	2.35[6]	0.93[3]						
		16	4.75[7]	0.94[3]							
	10	8	8.13	6.49	5.70	4.92	4.17	3.43	2.70	1.99[7]	1.29[7]
		9	7.76	5.71	4.74	3.80	2.90	2.02[7]	1.16[6]	0.33[6]	
		10	7.35	4.87	3.73	2.64[7]	1.60[6]	0.60[6]			
		12	6.37	3.10[7]	1.68[6]	0.36[6]					
		14	5.34	1.42[6]							
		16	4.26[6]								
600JS250-68, 50ksi	4	8	12.38	11.53	11.11	10.70	10.29	9.89	9.49	9.09	8.70
		9	12.09	11.00	10.47	9.95	9.44	8.93	8.44	7.95	7.46
		10	11.75	10.39	9.74	9.11	8.49	7.88	7.29	6.71	6.14
		12	10.92	8.96	8.07	7.22	6.40	5.62[7]	4.87[7]	4.14[6]	3.44[6]
		14	9.66	7.20	6.13	5.14[7]	4.21[6]	3.33[6]	2.50[6]	1.70[3]	0.94[3]
		16	8.30	5.48[7]	4.32[6]	3.27[6]	2.29[3]	1.38[3]	0.52[3]		
	6	8	12.22	11.06	10.50	9.94	9.39	8.85	8.31	7.78	7.26
		9	11.88	10.40	9.69	8.99	8.31	7.64	6.99	6.34	5.71
		10	11.49	9.66	8.79	7.96	7.14	6.35	5.59	4.84[7]	4.11[7]
		12	10.53	7.96	6.80	5.72[7]	4.68[6]	3.70[6]	2.76[6]	1.85[6]	0.98[3]
		14	9.16	6.00	4.67[6]	3.44[6]	2.29[6]	1.22[3]	0.20[3]		
		16	7.70	4.19[6]	2.77[6]	1.49[3]	0.32[3]				
	8	8	12.06	10.60	9.89	9.19	8.50	7.83	7.16	6.51	5.86
		9	11.68	9.82	8.93	8.07	7.23	6.40	5.60	4.81	4.05[7]
		10	11.23	8.95	7.88	6.85	5.86	4.91[7]	3.98[7]	3.08[6]	2.20[6]
		12	10.15	7.01	5.62[7]	4.32[6]	3.10[6]	1.93[6]	0.83[3]		
		14	8.67	4.90[6]	3.33[6]	1.90[3]	0.57[3]				
		16	7.14	3.02[6]	1.38[3]						
	10	8	11.90	10.14	9.29	8.46	7.64	6.83	6.05	5.27	4.51
		9	11.47	9.25	8.19	7.17	6.17	5.20	4.26[7]	3.34[7]	2.45[6]
		10	10.98	8.26	7.00	5.79	4.64[7]	3.53[6]	2.45[6]	1.41[6]	0.40[6]
		12	9.79	6.10	4.50[6]	3.01[6]	1.61[6]	0.29[3]			
		14	8.21	3.87[6]	2.09[6]	0.47[3]					
		16	6.61[7]	1.94[3]	0.11[3]						
600JS250-97, 50ksi	4	8	19.91	19.03	18.60	18.17	17.75	17.32	16.91	16.49	16.08
		9	19.39	18.27	17.72	17.17	16.63	16.10	15.58	15.06	14.55
		10	18.79	17.38	16.70	16.03	15.38	14.73	14.10	13.48	12.87
		12	17.32	15.28	14.33	13.42	12.54	11.69	10.88	10.08	9.31[7]
		14	15.54	12.88	11.71	10.61	9.58	8.59[7]	7.66[6]	6.76[6]	5.90[6]
		16	13.58	10.44	9.14	7.94[6]	6.83[6]	5.79[6]	4.81[6]	3.88[3]	2.99[3]
	6	8	19.74	18.55	17.96	17.38	16.80	16.23	15.67	15.11	14.56
		9	19.18	17.65	16.90	16.17	15.45	14.74	14.04	13.36	12.68
		10	18.52	16.61	15.70	14.81	13.95	13.10	12.27	11.46	10.67
		12	16.92	14.21	12.97	11.80	10.67	9.60[7]	8.56[7]	7.56[6]	6.60[6]
		14	15.00	11.57	10.09	8.72[7]	7.43[6]	6.22[6]	5.07[6]	3.97[3]	2.93[3]
		16	12.92	8.98[7]	7.37[6]	5.92[6]	4.57[3]	3.32[3]	2.14[3]	1.02[2]	
	8	8	19.58	18.06	17.32	16.59	15.87	15.16	14.46	13.77	13.08
		9	18.97	17.04	16.10	15.19	14.30	13.42	12.56	11.71	10.88
		10	18.26	15.87	14.73	13.64	12.57	11.54	10.53	9.55	8.59[7]
		12	16.53	13.19	11.69	10.28	8.93[7]	7.65[6]	6.43[6]	5.25[6]	4.11[6]
		14	14.49	10.35	8.59[7]	6.98[6]	5.48[6]	4.07[3]	2.74[3]	1.47[3]	0.26[3]
		16	12.30	7.65[6]	5.79[6]	4.11[3]	2.56[3]	1.12[2]			
	10	8	19.41	17.59	16.70	15.82	14.96	14.11	13.27	12.45	11.64
		9	18.76	16.43	15.32	14.23	13.17	12.13	11.12	10.13	9.15
		10	17.99	15.13	13.79	12.50	11.25	10.04	8.86[7]	7.72[7]	6.61[6]
		12	16.15	12.22	10.48	8.84[7]	7.30[6]	5.83[6]	4.43[6]	3.09[3]	1.80[3]
		14	13.99	9.20[7]	7.21[6]	5.38[6]	3.68[3]	2.10[3]	0.60[3]		
		16	11.71	6.43[6]	4.34[3]	2.45[3]	0.72[2]				

JamStud® Load Bearing Opening Allowable Axial Loads

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JamStud® Allowable Axial Loads for Load Bearing Openings										
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)							
			5	15	20	25	30	35	40	45	50
600JS250-118, 50ksi	4	8	25.46	24.52	24.06	23.60	23.14	22.68	22.23	21.78	21.34
		9	24.83	23.61	23.01	22.42	21.84	21.26	20.69	20.13	19.57
		10	24.07	22.54	21.80	21.07	20.36	19.65	18.96	18.29	17.62
		12	22.22	19.98	18.94	17.93	16.96	16.03	15.12	14.24	13.38
		14	19.99	17.04	15.73	14.50	13.34	12.25	11.20[7]	10.20[6]	9.236
		16	17.51	13.99	12.52	11.18[7]	9.93[6]	8.76[6]	7.66[6]	6.62[6]	5.62[3]
	6	8	25.29	24.00	23.37	22.74	22.12	21.50	20.90	20.29	19.69
		9	24.60	22.94	22.13	21.33	20.55	19.78	19.02	18.28	17.54
		10	23.78	21.71	20.71	19.74	18.79	17.87	16.96	16.07	15.20
		12	21.79	18.81	17.44	16.14	14.90	13.70	12.55	11.44[7]	10.37[6]
		14	19.39	15.57	13.92	12.38	10.94[7]	9.59[6]	8.30[6]	7.07[6]	5.90[6]
		16	16.77	12.35	10.54[7]	8.91[6]	7.40[6]	5.99[6]	4.66[3]	3.40[3]	2.21[3]
	8	8	25.11	23.48	22.68	21.90	21.12	20.35	19.59	18.83	18.09
		9	24.37	22.28	21.26	20.27	19.30	18.34	17.40	16.48	15.57
		10	23.49	20.89	19.65	18.45	17.29	16.15	15.05	13.97	12.91
		12	21.36	17.69	16.03	14.46	12.97	11.54[7]	10.18[6]	8.86[6]	7.59[6]
		14	18.82	14.21	12.25	10.44[6]	8.76[6]	7.18[6]	5.69[6]	4.27[3]	2.91[3]
		16	16.07	10.86[7]	8.76[6]	6.87[6]	5.13[3]	3.52[3]	2.00[3]	0.56[2]	
	10	8	24.93	22.97	22.01	21.06	20.13	19.21	18.30	17.40	16.52
		9	24.14	21.62	20.41	19.23	18.07	16.94	15.83	14.75	13.68
		10	23.20	20.09	18.62	17.21	15.83	14.50	13.21	11.95	10.73[7]
		12	20.94	16.61	14.68	12.86	11.14[7]	9.51[6]	7.95[6]	6.46[6]	5.02[6]
		14	18.26	12.93	10.69[7]	8.65[6]	6.75[6]	4.97[3]	3.29[3]	1.70[3]	0.17[3]
		16	15.41	9.49[6]	7.13[6]	5.01[3]	3.07[3]	1.27[2]			
600JS350-68, 50ksi	4	8	12.71	11.92	11.54	11.15	10.77	10.39	10.02	9.65	9.28
		9	12.40	11.40	10.91	10.43	9.95	9.48	9.01	8.55	8.09
		10	12.05	10.81	10.21	9.62	9.04	8.47	7.91	7.36	6.82
		12	11.22	9.44	8.61	7.81	7.04	6.29	5.56	4.85[7]	4.16[6]
		14	10.22	7.90	6.87	5.89	4.96[7]	4.08[6]	3.23[6]	2.42[6]	1.63[6]
		16	9.09	6.32	5.13[7]	4.04[6]	3.02[6]	2.06[3]	1.15[3]	0.29[3]	
	6	8	12.56	11.49	10.96	10.44	9.92	9.41	8.91	8.41	7.91
		9	12.21	10.85	10.19	9.54	8.90	8.26	7.64	7.03	6.42
		10	11.82	10.14	9.33	8.54	7.77	7.02	6.29	5.56	4.86
		12	10.87	8.51	7.42	6.38	5.38[7]	4.42[7]	3.49[6]	2.59[6]	1.73[6]
		14	9.75	6.74	5.42[7]	4.18[6]	3.02[6]	1.92[6]	0.88[3]		
		16	8.52	4.99[7]	3.52[6]	2.18[6]	0.93[3]				
	8	8	12.41	11.06	10.39	9.74	9.09	8.45	7.82	7.20	6.58
		9	12.02	10.31	9.48	8.66	7.87	7.08	6.31	5.56	4.81
		10	11.58	9.47	8.47	7.50	6.55	5.63	4.73	3.85[7]	2.99[6]
		12	10.53	7.61	6.29	5.03[7]	3.82[6]	2.68[6]	1.57[6]	0.51[6]	
		14	9.31	5.65[7]	4.08[6]	2.62[6]	1.25[3]				
		16	7.97	3.78[6]	2.06[3]	0.50[3]					
	10	8	12.26	10.63	9.83	9.05	8.27	7.51	6.75	6.01	5.28
		9	11.84	9.77	8.78	7.81	6.86	5.93	5.02	4.13	3.26[7]
		10	11.35	8.83	7.64	6.48	5.37	4.29[7]	3.24[6]	2.21[6]	1.22[6]
		12	10.20	6.75	5.20[7]	3.74[6]	2.36[6]	1.03[6]			
		14	8.87	4.62[6]	2.82[6]	1.16[3]					
		16	7.45	2.65[6]	0.71[3]						
600JS350-97, 50ksi	4	8	22.50	21.60	21.15	20.71	20.27	19.84	19.41	18.98	18.55
		9	22.06	20.90	20.33	19.76	19.21	18.65	18.11	17.56	17.03
		10	21.55	20.09	19.38	18.68	17.99	17.31	16.65	15.99	15.34
		12	20.06	17.93	16.93	15.96	15.02	14.11	13.23	12.37	11.53
		14	18.26	15.43	14.16	12.96	11.82	10.74	9.70[7]	8.70[6]	7.74[6]
		16	16.29	12.85	11.38	10.03[7]	8.78[6]	7.59[6]	6.48[6]	5.41[6]	4.39[3]
	6	8	22.33	21.10	20.49	19.89	19.30	18.71	18.12	17.54	16.97
		9	21.84	20.26	19.48	18.72	17.97	17.23	16.50	15.77	15.06
		10	21.27	19.29	18.33	17.40	16.48	15.58	14.70	13.84	12.99
		12	19.65	16.81	15.49	14.22	13.01	11.84	10.71	9.62[7]	8.56[7]
		14	17.69	14.00	12.38	10.87	9.44[7]	8.10[6]	6.81[6]	5.58[6]	4.40[6]
		16	15.57	11.21	9.39[7]	7.74[6]	6.21[6]	4.77[6]	3.42[3]	2.13[3]	0.91[3]
	8	8	22.16	20.60	19.84	19.08	18.34	17.60	16.86	16.14	15.42
		9	21.62	19.62	18.65	17.70	16.76	15.84	14.93	14.04	13.16
		10	21.00	18.51	17.31	16.15	15.02	13.92	12.84	11.79	10.76
		12	19.24	15.72	14.11	12.58	11.12	9.71[7]	8.37[7]	7.07[6]	5.81[6]
		14	17.14	12.67	10.74	8.95[7]	7.27[6]	5.69[6]	4.19[6]	2.76[3]	1.39[3]
		16	14.90	9.71[7]	7.59[6]	5.67[6]	3.90[3]	2.25[3]	0.69[3]		
	10	8	21.99	20.11	19.19	18.28	17.39	16.50	15.62	14.76	13.91
		9	21.40	19.00	17.83	16.70	15.58	14.48	13.41	12.36	11.32
		10	20.72	17.73	16.32	14.94	13.61	12.31	11.05	9.82	8.61[7]
		12	18.84	14.68	12.79	11.01	9.32[7]	7.71[6]	6.16[6]	4.68[6]	3.24[6]
		14	16.61	11.41	9.19[7]	7.15[6]	5.25[6]	3.46[6]	1.77[3]	0.16[3]	
		16	14.25	8.33[6]	5.94[6]	3.78[3]	1.79[3]				

Light Steel Framing Openings

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings										
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)							
			5	15	20	25	30	35	40	45	50
600JS350-118, 50ksi	4	8	29.83	28.92	28.46	28.01	27.56	27.11	26.66	26.22	25.78
		9	29.16	27.97	27.39	26.81	26.23	25.66	25.10	24.54	23.99
		10	28.40	26.90	26.17	25.44	24.73	24.03	23.34	22.66	21.99
		12	26.61	24.37	23.32	22.29	21.30	20.34	19.40	18.48	17.59
		14	24.55	21.48	20.10	18.80	17.56	16.37	15.24	14.15	13.10[7]
		16	21.89	18.12	16.52	15.04	13.66	12.37[7]	11.14[6]	9.97[6]	8.86[6]
	6	8	29.66	28.40	27.78	27.17	26.55	25.95	25.34	24.75	24.15
		9	28.94	27.32	26.52	25.74	24.96	24.19	23.44	22.69	21.95
		10	28.11	26.07	25.09	24.12	23.17	22.24	21.32	20.42	19.54
		12	26.18	23.19	21.79	20.46	19.17	17.92	16.72	15.55	14.42
		14	23.94	19.93	18.17	16.52	14.97	13.49[7]	12.09[6]	10.74[6]	9.45[6]
		16	21.11	16.33	14.34	12.52[7]	10.84[6]	9.27[6]	7.79[6]	6.38[3]	5.04[3]
	8	8	29.49	27.90	27.11	26.33	25.56	24.80	24.04	23.29	22.55
		9	28.71	26.66	25.66	24.68	23.71	22.76	21.81	20.89	19.97
		10	27.83	25.27	24.03	22.83	21.66	20.51	19.38	18.28	17.20
		12	25.75	22.04	20.34	18.71	17.15	15.66	14.22	12.82[7]	11.47[6]
		14	23.34	18.48	16.37	14.42	12.59[7]	10.86[6]	9.22[6]	7.66[6]	6.16[6]
		16	20.37	14.69	12.37[7]	10.26[6]	8.32[6]	6.51[3]	4.80[3]	3.19[3]	1.65[3]
	10	8	29.32	27.39	26.44	25.51	24.58	23.67	22.76	21.87	20.98
		9	28.49	26.02	24.82	23.64	22.48	21.35	20.23	19.13	18.05
		10	27.55	24.47	23.00	21.57	20.18	18.83	17.50	16.21	14.95
		12	25.33	20.94	18.94	17.04	15.24	13.51[7]	11.86[7]	10.26[6]	8.72[6]
		14	22.77	17.11	14.69	12.46[7]	10.39[6]	8.43[6]	6.58[6]	4.81[3]	3.13[3]
		16	19.66	13.17[7]	10.55[6]	8.19[6]	6.01[3]	3.98[3]	2.08[3]	0.28[2]	
800JS250-43, 50ksi	4	8	6.91	6.31	6.01	5.71	5.41	5.11	4.82	4.53	4.24
		9	6.79	6.02	5.64	5.26	4.89	4.52	4.15	3.79	3.43
		10	6.65	5.69	5.23	4.76	4.31	3.86	3.42	2.98	2.54
		12	6.30	4.93	4.27	3.63	3.01	2.40	1.81	1.23[7]	0.66[7]
		14	5.85	4.03	3.19	2.39	1.62[7]	0.87[6]	0.16[6]		
		16	5.32	3.07	2.07[7]	1.14[6]	0.25[6]				
	6	8	6.80	5.97	5.56	5.15	4.75	4.35	3.95	3.55	3.16
		9	6.64	5.59	5.07	4.56	4.06	3.56	3.07	2.58	2.10
		10	6.47	5.17	4.54	3.92	3.31	2.71	2.12	1.54	0.96
		12	6.03	4.19	3.32	2.48	1.66	0.87[7]	0.10[6]		
		14	5.49	3.09	2.00[7]	0.96[6]					
		16	4.87	1.95[7]	0.69[6]						
	8	8	6.68	5.63	5.11	4.60	4.09	3.59	3.09	2.60	2.11
		9	6.50	5.17	4.52	3.88	3.25	2.62	2.01	1.40	0.81
		10	6.29	4.65	3.86	3.09	2.33	1.59	0.86	0.15[7]	
		12	5.77	3.48	2.40	1.37[7]	0.38[6]				
		14	5.14	2.19	0.87[6]						
		16	4.43	0.91[6]							
	10	8	6.57	5.30	4.67	4.06	3.45	2.84	2.24	1.65	1.07
		9	6.35	4.75	3.97	3.20	2.45	1.71	0.98	0.26	
		10	6.11	4.14	3.20	2.28	1.38	0.50			
		12	5.52	2.78	1.52	0.31[6]					
		14	4.80	1.33[7]							
800JS250-54, 50ksi	4	8	9.27	8.68	8.39	8.10	7.81	7.52	7.24	6.95	6.67
		9	9.13	8.39	8.02	7.65	7.28	6.92	6.56	6.20	5.85
		10	8.98	8.05	7.59	7.14	6.69	6.25	5.81	5.38	4.95
		12	8.58	7.24	6.59	5.95	5.33	4.72	4.12	3.54	2.96
		14	8.07	6.26	5.42	4.60	3.82	3.06[7]	2.32[7]	1.60[6]	0.90[6]
		16	7.45	5.18	4.16	3.19[7]	2.27[6]	1.39[6]	0.55[6]		
	6	8	9.16	8.35	7.96	7.56	7.17	6.78	6.39	6.00	5.62
		9	8.99	7.97	7.47	6.97	6.47	5.98	5.50	5.02	4.54
		10	8.80	7.53	6.91	6.30	5.70	5.11	4.52	3.94	3.37
		12	8.32	6.51	5.64	4.80	3.98	3.18	2.40[7]	1.64[7]	0.89[6]
		14	7.72	5.31	4.21	3.15[7]	2.14[6]	1.16[6]	0.22[6]		
		16	7.00	4.04	2.73[6]	1.50[6]	0.35[6]				
	8	8	9.05	8.03	7.52	7.02	6.53	6.04	5.55	5.06	4.58
		9	8.85	7.56	6.92	6.29	5.67	5.06	4.45	3.85	3.26
		10	8.63	7.03	6.25	5.48	4.73	4.00	3.27	2.55	1.85
		12	8.07	5.80	4.72	3.68	2.68	1.70[7]	0.76[6]		
		14	7.37	4.40	3.06[7]	1.78[6]	0.56[6]				
		16	6.56	2.96[7]	1.39[6]						
	10	8	8.94	7.70	7.10	6.49	5.90	5.30	4.72	4.13	3.56
		9	8.71	7.15	6.38	5.63	4.89	4.15	3.43	2.71	2.01
		10	8.45	6.52	5.59	4.68	3.79	2.91	2.05	1.20[7]	0.37[7]
		12	7.82	5.10	3.83	2.61	1.43[7]	0.29[6]			
		14	7.03	3.53	1.96[6]	0.48[6]					
		16	6.13	1.94[6]	0.14[6]						

JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings										
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)							
			5	15	20	25	30	35	40	45	50
800JS250-68, 50ksi	4	8	13.34	12.73	12.42	12.12	11.82	11.51	11.21	10.91	10.61
		9	13.18	12.40	12.01	11.62	11.23	10.85	10.47	10.09	9.72
		10	12.99	12.01	11.53	11.05	10.57	10.10	9.64	9.17	8.71
		12	12.51	11.07	10.38	9.69	9.02	8.36	7.72	7.08	6.46
		14	11.88	9.92	9.00	8.11	7.24	6.40	5.59	4.80[7]	4.03[7]
		16	11.13	8.62	7.48	6.39	5.37[7]	4.38[6]	3.44[6]	2.53[6]	1.65[6]
	6	8	13.23	12.38	11.97	11.55	11.14	10.73	10.32	9.91	9.50
		9	13.03	11.96	11.43	10.90	10.38	9.86	9.34	8.83	8.33
		10	12.81	11.47	10.81	10.16	9.52	8.89	8.26	7.64	7.03
		12	12.24	10.29	9.36	8.45	7.56	6.69	5.84	5.01	4.20[7]
		14	11.50	8.88	7.67	6.51	5.39	4.31[7]	3.28[6]	2.27[6]	1.29[6]
		16	10.63	7.34	5.87	4.50[6]	3.21[6]	1.97[6]	0.80[6]		
	8	8	13.11	12.04	11.51	10.99	10.47	9.95	9.43	8.92	8.41
		9	12.89	11.52	10.85	10.19	9.53	8.88	8.23	7.60	6.96
		10	12.62	10.93	10.10	9.29	8.49	7.70	6.92	6.15	5.39
		12	11.96	9.52	8.36	7.24	6.15	5.09	4.05[7]	3.04[7]	2.06[6]
		14	11.13	7.89	6.40	5.00[7]	3.65[6]	2.36[6]	1.12[6]		
		16	10.14	6.13	4.38[6]	2.75[6]	1.22[6]				
	10	8	13.00	11.70	11.06	10.43	9.80	9.17	8.55	7.94	7.33
		9	12.74	11.09	10.28	9.48	8.69	7.91	7.14	6.38	5.63
		10	12.44	10.40	9.40	8.43	7.47	6.53	5.61	4.70	3.80
		12	11.69	8.77	7.40	6.07	4.79	3.54[7]	2.34[6]	1.16[6]	0.02[6]
		14	10.76	6.92	5.19[7]	3.56[6]	2.00[6]	0.51[6]			
		16	9.67	4.99[7]	2.98[6]	1.11[6]					
800JS250-97, 50ksi	4	8	21.97	21.34	21.03	20.71	20.40	20.09	19.78	19.47	19.16
		9	21.73	20.91	20.51	20.11	19.71	19.31	18.92	18.52	18.13
		10	21.42	20.41	19.90	19.40	18.91	18.42	17.93	17.44	16.96
		12	20.63	19.13	18.40	17.68	16.97	16.27	15.58	14.90	14.23
		14	19.57	17.51	16.52	15.57	14.64	13.73	12.85	11.98	11.14
		16	18.26	15.60	14.37	13.20	12.08	11.00	9.96[7]	8.95[7]	7.97[6]
	6	8	21.85	20.99	20.56	20.13	19.70	19.28	18.85	18.43	18.01
		9	21.57	20.46	19.91	19.36	18.82	18.28	17.74	17.21	16.68
		10	21.23	19.84	19.16	18.48	17.81	17.14	16.48	15.83	15.18
		12	20.35	18.31	17.32	16.36	15.41	14.48	13.57	12.67	11.79
		14	19.17	16.40	15.10	13.84	12.63	11.45	10.31	9.20[7]	8.12[7]
		16	17.74	14.22	12.63	11.13	9.70[7]	8.33[6]	7.02[6]	5.76[6]	4.55[6]
	8	8	21.74	20.64	20.09	19.55	19.01	18.47	17.93	17.40	16.87
		9	21.42	20.01	19.31	18.62	17.94	17.26	16.58	15.91	15.24
		10	21.04	19.28	18.42	17.56	16.72	15.89	15.06	14.25	13.44
		12	20.06	17.50	16.27	15.07	13.90	12.75	11.63	10.53	9.45
		14	18.78	15.33	13.73	12.20	10.72	9.30[7]	7.93[7]	6.60[6]	5.30[6]
		16	17.23	12.92	11.00	9.20[7]	7.49[6]	5.88[6]	4.33[6]	2.85[6]	1.42[3]
	10	8	21.62	20.28	19.62	18.97	18.31	17.66	17.02	16.38	15.74
		9	21.27	19.56	18.72	17.89	17.06	16.24	15.43	14.63	13.83
		10	20.85	18.72	17.68	16.66	15.65	14.65	13.67	12.70	11.74
		12	19.78	16.71	15.24	13.81	12.43	11.08	9.76	8.47[7]	7.21[7]
		14	18.39	14.29	12.41	10.62	8.90[7]	7.26[6]	5.67[6]	4.14[6]	2.66[6]
		16	16.73	11.67	9.45[7]	7.38[6]	5.43[6]	3.58[6]	1.83[3]	0.15[3]	
800JS250-118, 50ksi	4	8	28.31	27.66	27.34	27.02	26.70	26.38	26.06	25.74	25.43
		9	28.01	27.18	26.77	26.35	25.94	25.53	25.13	24.72	24.32
		10	27.65	26.60	26.09	25.57	25.06	24.55	24.04	23.54	23.04
		12	26.69	25.13	24.37	23.62	22.88	22.15	21.42	20.71	20.01
		14	25.39	23.23	22.19	21.18	20.20	19.24	18.30	17.38	16.48
		16	23.77	20.95	19.64	18.39	17.18	16.02	14.90	13.81	12.76[7]
	6	8	28.19	27.30	26.86	26.42	25.98	25.54	25.11	24.67	24.24
		9	27.86	26.72	26.15	25.59	25.03	24.47	23.91	23.36	22.81
		10	27.45	26.02	25.31	24.61	23.92	23.23	22.54	21.87	21.19
		12	26.40	24.28	23.25	22.24	21.25	20.27	19.31	18.37	17.44
		14	24.98	22.07	20.69	19.36	18.07	16.81	15.60	14.41	13.25
		16	23.22	19.48	17.78	16.17	14.63	13.15[7]	11.73[7]	10.37[6]	9.05[6]
	8	8	28.07	26.94	26.38	25.82	25.27	24.71	24.16	23.61	23.07
		9	27.70	26.25	25.53	24.82	24.12	23.41	22.71	22.02	21.33
		10	27.26	25.44	24.55	23.67	22.79	21.93	21.07	20.22	19.38
		12	26.10	23.43	22.15	20.89	19.66	18.45	17.27	16.11	14.97
		14	24.57	20.94	19.24	17.61	16.03	14.52	13.04	11.62[7]	10.23[6]
		16	22.68	18.08	16.02	14.08	12.24[7]	10.49[6]	8.81[6]	7.20[6]	5.65[6]
	10	8	27.95	26.58	25.90	25.23	24.56	23.89	23.22	22.56	21.90
		9	27.54	25.79	24.92	24.07	23.21	22.37	21.53	20.70	19.87
		10	27.06	24.87	23.79	22.73	21.68	20.65	19.62	18.61	17.61
		12	25.81	22.60	21.07	19.57	18.11	16.69	15.29	13.93	12.59
		14	24.16	19.84	17.84	15.92	14.09	12.33[7]	10.62[7]	8.97[6]	7.38[6]
		16	22.15	16.74	14.35	12.12[7]	10.00[6]	8.00[6]	6.09[6]	4.26[3]	2.50[3]

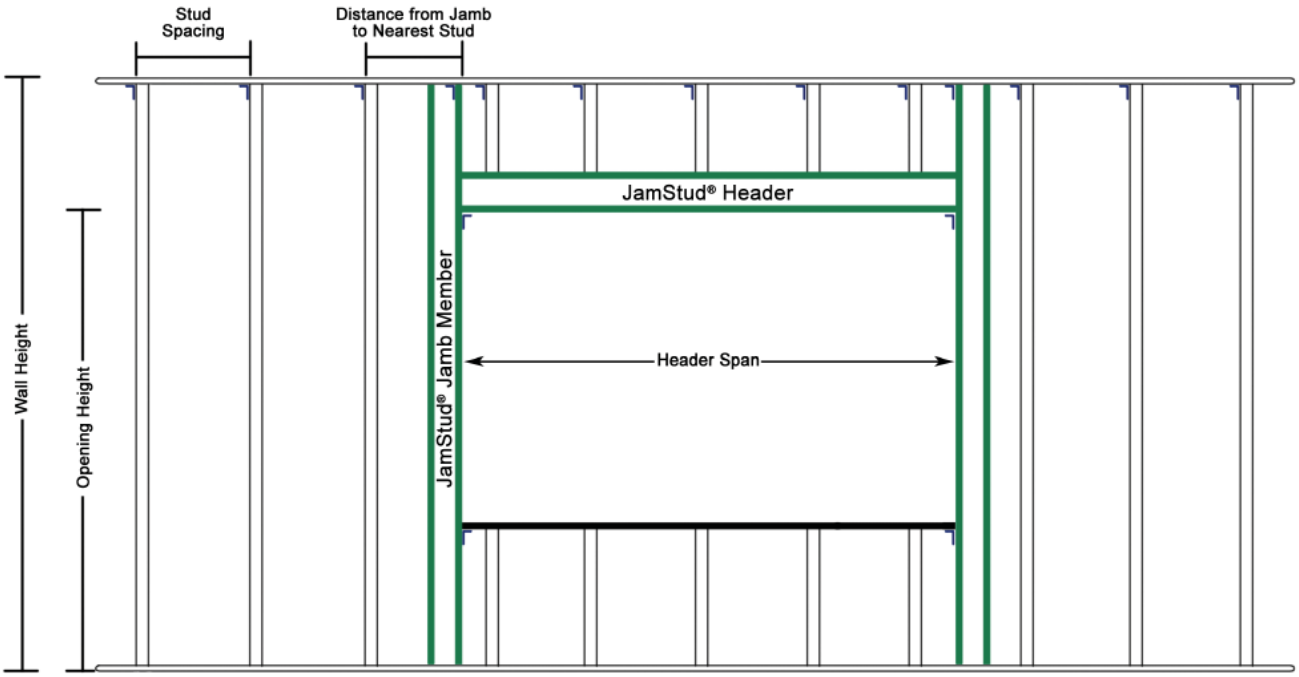
JamStud® Load Bearing Opening Allowable Axial Loads

Refer to Important Table Notes on Page 17

JamStud® Allowable Axial Loads for Load Bearing Openings											
Section	Opening Width (ft)	Wall Height (ft)	Lateral Wind Pressure (psf)								
			5	15	20	25	30	35	40	45	50
800JS350-68, 50ksi	4	8	13.78	13.20	12.90	12.61	12.32	12.03	11.74	11.45	11.17
		9	13.60	12.86	12.48	12.11	11.75	11.38	11.01	10.65	10.29
		10	13.40	12.47	12.00	11.55	11.09	10.64	10.20	9.75	9.31
		12	12.88	11.53	10.87	10.22	9.58	8.95	8.33	7.71	7.11
		14	12.24	10.40	9.53	8.68	7.84	7.03	6.24	5.47	4.71
		16	11.47	9.13	8.04	7.00	6.00	5.03[7]	4.09[7]	3.19[6]	2.31[6]
	6	8	13.67	12.87	12.47	12.07	11.67	11.28	10.88	10.49	10.10
		9	13.46	12.44	11.93	11.43	10.92	10.43	9.93	9.44	8.95
		10	13.22	11.95	11.32	10.70	10.09	9.48	8.87	8.28	7.68
		12	12.62	10.79	9.90	9.03	8.17	7.33	6.51	5.70	4.90
		14	11.88	9.42	8.26	7.13	6.04	4.99	3.96[7]	2.96[6]	1.99[6]
		16	11.02	7.91	6.49	5.15[7]	3.86[6]	2.63[6]	1.45[6]	0.31[6]	
	8	8	13.56	12.54	12.03	11.53	11.02	10.52	10.03	9.53	9.04
		9	13.32	12.02	11.38	10.74	10.11	9.48	8.86	8.24	7.63
		10	13.05	11.43	10.64	9.86	9.09	8.33	7.58	6.83	6.09
		12	12.37	10.06	8.95	7.87	6.81	5.77	4.76	3.76	2.79[7]
		14	11.54	8.47	7.03	5.66	4.33[7]	3.05[6]	1.82[6]	0.62[6]	
		16	10.57	6.74	5.03[7]	3.41[6]	1.88[6]	0.41[6]			
	10	8	13.45	12.21	11.60	10.99	10.38	9.78	9.18	8.58	7.99
		9	13.18	11.61	10.83	10.06	9.30	8.55	7.80	7.06	6.33
		10	12.87	10.93	9.97	9.04	8.11	7.20	6.30	5.41	4.54
		12	12.12	9.34	8.02	6.73	5.48	4.26	3.06[7]	1.90[6]	0.76[6]
		14	11.19	7.54	5.85	4.24[7]	2.70[6]	1.21[6]			
		16	10.13	5.63	3.64[6]	1.77[6]	0.01[6]				
800JS350-97, 50ksi	4	8	24.36	23.72	23.40	23.09	22.77	22.45	22.14	21.83	21.51
		9	24.12	23.30	22.89	22.48	22.08	21.68	21.28	20.88	20.48
		10	23.83	22.80	22.29	21.79	21.29	20.79	20.29	19.80	19.31
		12	23.11	21.59	20.85	20.11	19.39	18.67	17.96	17.27	16.57
		14	22.19	20.09	19.07	18.08	17.11	16.17	15.24	14.33	13.44
		16	21.08	18.30	17.01	15.76	14.56	13.41	12.28	11.20	10.14[7]
	6	8	24.24	23.36	22.93	22.49	22.06	21.63	21.20	20.77	20.34
		9	23.96	22.84	22.28	21.73	21.18	20.63	20.08	19.54	19.00
		10	23.63	22.23	21.54	20.85	20.17	19.49	18.82	18.15	17.49
		12	22.82	20.76	19.75	18.76	17.79	16.83	15.89	14.96	14.05
		14	21.79	18.95	17.60	16.29	15.01	13.78	12.57	11.39	10.25
		16	20.54	16.85	15.16	13.55	12.01	10.53	9.11[7]	7.73[6]	6.41[6]
	8	8	24.12	23.01	22.45	21.90	21.36	20.81	20.27	19.72	19.18
		9	23.81	22.38	21.68	20.98	20.28	19.59	18.90	18.22	17.54
		10	23.44	21.66	20.79	19.92	19.06	18.21	17.37	16.54	15.71
		12	22.53	19.93	18.67	17.44	16.23	15.04	13.88	12.74	11.61
		14	21.39	17.84	16.17	14.56	13.01	11.50	10.04	8.62[7]	7.24[6]
		16	20.01	15.46	13.41	11.46	9.62[7]	7.86[6]	6.17[6]	4.54[6]	2.98[6]
	10	8	24.00	22.65	21.98	21.32	20.65	19.99	19.34	18.68	18.03
		9	23.65	21.93	21.08	20.23	19.39	18.56	17.73	16.91	16.10
		10	23.25	21.10	20.04	19.00	17.97	16.95	15.95	14.95	13.96
		12	22.25	19.12	17.61	16.15	14.71	13.31	11.93	10.59	9.27
		14	20.99	16.76	14.79	12.90	11.08	9.33[7]	7.63[7]	5.99[6]	4.39[6]
		16	19.49	14.13	11.74	9.49[7]	7.37[6]	5.35[6]	3.42[6]	1.57[6]	
800JS350-118, 50ksi	4	8	33.09	32.42	32.09	31.76	31.43	31.09	30.76	30.44	30.11
		9	32.71	31.85	31.42	31.00	30.58	30.15	29.73	29.31	28.89
		10	32.26	31.18	30.65	30.12	29.59	29.07	28.55	28.03	27.51
		12	31.14	29.55	28.77	27.99	27.23	26.47	25.72	24.98	24.25
		14	29.75	27.53	26.46	25.41	24.39	23.38	22.40	21.43	20.48
		16	28.12	25.19	23.82	22.49	21.21	19.98	18.78	17.61	16.47
	6	8	32.96	32.05	31.59	31.14	30.68	30.23	29.78	29.33	28.88
		9	32.55	31.37	30.79	30.21	29.63	29.05	28.48	27.91	27.34
		10	32.06	30.58	29.86	29.13	28.42	27.70	26.99	26.29	25.59
		12	30.84	28.67	27.61	26.56	25.54	24.52	23.52	22.54	21.57
		14	29.32	26.33	24.90	23.51	22.15	20.84	19.55	18.29	17.06
		16	27.55	23.65	21.85	20.13	18.48	16.90	15.37	13.89[7]	12.46[7]
	8	8	32.84	31.67	31.09	30.52	29.94	29.37	28.80	28.23	27.66
		9	32.39	30.89	30.15	29.42	28.69	27.96	27.24	26.52	25.80
		10	31.85	29.99	29.07	28.16	27.25	26.36	25.47	24.58	23.71
		12	30.54	27.80	26.47	25.17	23.89	22.63	21.39	20.17	18.97
		14	28.90	25.15	23.38	21.67	20.01	18.40	16.84	15.32	13.83
		16	26.99	22.17	19.98	17.90	15.92	14.02[7]	12.20[7]	10.45[6]	8.76[6]
	10	8	32.71	31.30	30.60	29.90	29.21	28.51	27.82	27.14	26.45
		9	32.23	30.42	29.52	28.63	27.75	26.88	26.00	25.14	24.28
		10	31.65	29.40	28.29	27.19	26.10	25.02	23.96	22.90	21.86
		12	30.24	26.94	25.35	23.79	22.27	20.78	19.32	17.88	16.47
		14	28.49	24.01	21.91	19.90	17.95	16.07	14.25	12.49[7]	10.77[6]
		16	26.44	20.75	18.19	15.78	13.49[7]	11.32[6]	9.23[6]	7.23[6]	5.30[6]

Non Load Bearing Opening Header/Sill Design

Designing JamStud®



1. Basis for Tables

The JamStud Non Load Bearing Opening Allowable Header Spans table in this catalog cover the following basic load combination for the Allowable Stress Design (ASD) Method (IBC2009/2012 and ASCE 7-05/10). Listed wind pressures represent calculated design wind pressure (1.0W based on 2009 or 0.6W based on 2012 IBC).

- $D + W_{C\&C}$ (ASCE 7-05)
- $D + 0.6W_{C\&C}$ (ASCE 7-10)

$W_{C\&C}$ is the component & cladding wind load. A sheathing dead load (D) of 12 psf acting vertically on the header is assumed in the tables.

For deflection determination, IBC 2009 and IBC 2012-Sec. 1604.3 and AISI-S211-07 Wall Stud Design Standard, Sec. A3.1 allow for a reduction factor of 0.7 on the component & cladding wind load ($0.7W_{C\&C}$).

The "JamStud – Allowable Header Spans" tables are based on the following assumptions:

- 4-Way distribution of lateral wind pressure acting on the opening
- Opening height extends from floor level to the bottom surface of the header
- Header supports wind pressure from opening, wind pressure from half distance to floor above, and vertical dead load from sheathing above

The input for the tables are: JamStud section, the wall height (ft.), the opening height (ft.), the design wind pressure (WC&C, psf), and the specified deflection limit. The output from the tables includes: the allowable JamStud span or opening width (ft.-in.) and controlling design factor, strength or deflection ("f" denotes strength, "d" denotes deflection).

2. Design Example

Given:

Wind Pressure ($W_{C\&C}$)(ASCE 7-05)	
or ($0.6W_{C\&C}$)(ASCE 7-10)	= 30 psf
Wall Width	= 6.0 in.
Header Span	= 9.0 ft.
Opening Height	= 10.0 ft.
Specified Deflection Limit	= L/360

Non Load Bearing Opening Header/Sill Design

3. Design Header

Go to JamStud® Non Load Bearing Opening Allowable Header Spans table with 6.0 in. stud member, 30 psf wind load, L/360 deflection limit, 13.0 ft. wall height, and 10.0 ft. opening height. Possible JamStud selections from the table for a 9.0 ft. header span are a 600JS250-54 (allowable span = 9’ 0”).

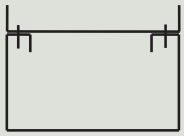
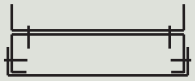
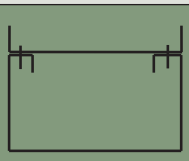
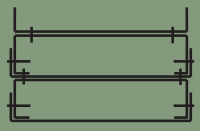
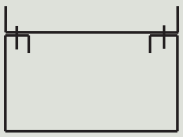
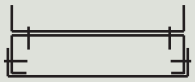
Conclusion:

Use 600JS250-54 (50ksi) (with design thickness. = 0.0556” and Fy = 50 ksi).

Important Note:

When ordering JamStud header solutions, indicate that the punchouts are not required. Designate JamStud without punchouts on plans and specify header use when ordering.

4. Design Comparison of Header Components

Design Case	Typical Wall Stud	JamStud® Solution		Typical Built-Up Header	
		Section*	Shape	Section*	Shape
$W_{C\&C}$ = 30 psf Wall Width = 6.0” Wall Height = 13.0’ Header Span = 9.0’ Opening Height = 10.0’ Deflection Limit = L/360	600S162-43	Single 600JS250-54		(1) Stud 600S162-54 + (1) Track 600T125-54, attached at 24” o.c. max. horizontally	
$W_{C\&C}$ = 20 psf Wall Width = 3.625” Wall Height = 11.0’ Header Span = 10.0’ Opening Height = 8.0’ Deflection Limit = L/600	362S162-43	Single 362JS350-97		(2) Studs 362S162-68 + (2) Tracks 362T125-68, attached at 24” o.c. max. horizontally	
$W_{C\&C}$ = 35 psf Wall Width = 8.0” Wall Height = 15.0’ Header Span =10.0’ Opening Height = 10.0’ Deflection Limit = L/360	800S162-54	Single 800JS350-68		(1) Stud 800S162-54 + (1) Track 800T125-54, attached at 24” o.c. max. horizontally	

* The runner track for the attachment of cripple studs was not considered as part of the design cross-section.

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Header Spans

Important Notes

1. A sheathing dead load of 12 psf acting vertically on the header is considered in the calculations.
2. Lateral loads have not been modified for strength checks: full loads are applied.
3. Listed wind pressures represent calculated design wind pressure (1.0W based on 2009 or 0.6W based on 2012 IBC).
4. 15 psf and higher wind pressures have been multiplied by 0.7 for deflection determination, in accordance with footnote “f” of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
5. "f" denotes limiting header span is controlled by strength, while "d" denotes limiting header span is controlled by deflection.
6. Header is assumed to be connected to jamb member through a stiffening clip to eliminate a web crippling condition.
7. Limiting header spans are based on continuous support of each flange over the full length of the member.
8. Strength determination includes checks for bending and shear capacity values of the header.
9. Designate JamStud without punchouts on drawings when utilized for header applications.
10. Moment of inertia for deflection is optimized based on the maximum moment at service loads for the listed spans; therefore; span values may be greater than spans based on an effective moment of inertia listed in section property tables.

JamStud Member	Wall Ht. (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																									
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
362JS250-33, 50ksi	9	6	9' 1" f	8' 5" d	7' 4" d	7' 5" f	7' 5" f	7' 0" d	6' 11" f	6' 11" f	6' 11" f	6' 6" f	6' 6" f	6' 6" f	6' 2" f	6' 2" f	6' 2" f	5' 11" f	5' 11" f	5' 11" f	5' 8" f	5' 8" f	5' 8" f	5' 6" f	5' 6" f	5' 6" f	5' 4" f	5' 4" f	5' 4" f
		8	12' 9" f	12' 2" d	10' 7" d	9' 4" f	9' 4" f	8' 6" d	8' 7" f	8' 7" f	7' 10" d	8' 0" f	8' 0" f	7' 5" d	7' 7" f	7' 7" f	7' 1" d	7' 2" f	7' 2" f	6' 9" d	6' 11" f	6' 11" f	6' 7" d	6' 8" f	6' 8" f	6' 4" d	6' 5" f	6' 5" f	6' 2" d
	11	8	8' 11" f	8' 5" d	7' 4" d	7' 4" f	7' 4" f	7' 0" d	6' 10" f	6' 10" f	6' 10" f	6' 6" f	6' 6" f	6' 6" f	6' 2" f	6' 2" f	6' 2" f	5' 11" f	5' 11" f	5' 11" f	5' 8" f	5' 8" f	5' 8" f	5' 6" f	5' 6" f	5' 6" f	5' 4" f	5' 4" f	5' 4" f
		10	12' 5" f	12' 2" d	10' 7" d	9' 3" f	9' 3" f	8' 6" d	8' 6" f	8' 6" f	7' 10" d	8' 0" f	8' 0" f	7' 5" d	7' 7" f	7' 7" f	7' 1" d	7' 2" f	7' 2" f	6' 9" d	6' 11" f	6' 11" f	6' 7" d	6' 8" f	6' 8" f	6' 4" d	6' 5" f	6' 5" f	6' 2" d
	13	8	7' 3" f	7' 1" d	6' 2" d	6' 2" f	6' 2" f	5' 11" d	5' 10" f	5' 10" f	5' 10" f	5' 6" f	5' 6" f	5' 6" f	5' 4" f	5' 4" f	5' 4" f	5' 1" f	5' 1" f	5' 1" f	4' 11" f	4' 11" f	4' 11" f	4' 9" f	4' 9" f	4' 9" f	4' 7" f	4' 7" f	4' 7" f
		10	8' 11" f	8' 5" d	7' 4" d	7' 4" f	7' 4" f	7' 0" d	6' 10" f	6' 10" f	6' 10" f	6' 6" f	6' 6" f	6' 6" f	6' 2" f	6' 2" f	6' 2" f	5' 11" f	5' 11" f	5' 11" f	5' 8" f	5' 8" f	5' 8" f	5' 6" f	5' 6" f	5' 6" f	5' 4" f	5' 4" f	5' 4" f
		12	12' 3" f	12' 2" d	10' 7" d	9' 3" f	9' 3" f	8' 6" d	8' 6" f	8' 6" f	7' 10" d	8' 0" f	8' 0" f	7' 5" d	7' 7" f	7' 7" f	7' 1" d	7' 2" f	7' 2" f	6' 9" d	6' 11" f	6' 11" f	6' 7" d	6' 8" f	6' 8" f	6' 4" d	6' 5" f	6' 5" f	6' 2" d
	15	8	6' 3" f	6' 3" f	5' 6" d	5' 5" f	5' 5" f	5' 3" d	5' 2" f	5' 2" f	5' 2" f	4' 11" f	4' 11" f	4' 11" f	4' 8" f	4' 8" f	4' 8" f	4' 6" f	4' 6" f	4' 6" f	4' 4" f	4' 4" f	4' 4" f	4' 2" f	4' 2" f	4' 2" f	4' 1" f	4' 1" f	4' 1" f
		10	7' 3" f	7' 1" d	6' 2" d	6' 2" f	6' 2" f	5' 11" d	5' 10" f	5' 10" f	5' 10" f	5' 6" f	5' 6" f	5' 6" f	5' 4" f	5' 4" f	5' 4" f	5' 1" f	5' 1" f	5' 1" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f
		12	8' 11" f	8' 5" d	7' 4" d	7' 4" f	7' 4" f	7' 0" d	6' 10" f	6' 10" f	6' 10" f	6' 6" f	6' 6" f	6' 6" f	6' 2" f	6' 2" f	6' 2" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f
362JS250-43, 50ksi	9	6	10' 9" f	9' 2" d	8' 0" d	8' 9" f	8' 9" f	7' 7" d	8' 2" f	8' 2" f	7' 7" d	7' 8" f	7' 8" f	7' 4" d	7' 3" f	7' 3" f	7' 0" d	6' 11" f	6' 11" f	6' 8" d	6' 7" f	6' 7" f	6' 5" d	6' 5" f	6' 5" f	6' 2" d	6' 2" f	6' 2" f	6' 0" d
		8	15' 1" f	13' 3" d	11' 7" d	10' 11" f	10' 6" d	9' 1" d	9' 11" f	9' 8" d	8' 5" d	9' 2" f	9' 1" d	7' 11" d	8' 8" f	8' 8" f	7' 7" d	8' 3" f	8' 3" f	7' 3" d	7' 10" f	7' 10" f	7' 0" d	7' 7" f	7' 7" f	6' 9" d	7' 4" f	7' 4" f	6' 7" d
	11	8	10' 7" f	9' 2" d	8' 0" d	8' 7" f	8' 7" f	7' 7" d	8' 0" f	8' 0" f	7' 7" d	7' 7" f	7' 7" f	7' 4" d	7' 2" f	7' 2" f	6' 11" d	6' 10" f	6' 10" f	6' 8" d	6' 7" f	6' 7" f	6' 5" d	6' 4" f	6' 4" f	6' 2" d	6' 2" f	6' 2" f	6' 0" d
		10	14' 7" f	13' 3" d	11' 7" d	10' 8" f	10' 4" d	9' 1" d	9' 9" f	9' 7" d	8' 5" d	9' 1" f	9' 1" f	7' 11" d	8' 7" f	8' 7" f	7' 7" d	8' 3" f	8' 3" f	7' 3" d	7' 10" f	7' 10" f	7' 0" d	7' 7" f	7' 7" f	6' 9" d	7' 4" f	7' 4" f	6' 7" d
	13	8	8' 7" f	7' 9" d	6' 9" d	7' 4" f	7' 4" f	6' 5" d	6' 10" f	6' 10" f	6' 5" d	6' 6" f	6' 6" f	6' 5" d	6' 3" f	6' 3" f	6' 3" f	5' 11" f	5' 11" f	5' 11" f	5' 9" f	5' 9" f	5' 9" f	5' 6" f	5' 6" f	5' 6" f	5' 4" f	5' 4" f	5' 4" f
		10	10' 6" f	9' 2" d	8' 0" d	8' 7" f	8' 7" f	7' 7" d	8' 0" f	8' 0" f	7' 7" d	7' 7" f	7' 7" f	7' 4" d	7' 2" f	7' 2" f	6' 11" d	6' 10" f	6' 10" f	6' 8" d	6' 7" f	6' 7" f	6' 5" d	6' 4" f	6' 4" f	6' 2" d	6' 2" f	6' 2" f	6' 0" d
		12	14' 3" f	13' 3" d	11' 7" d	10' 7" f	10' 4" d	9' 1" d	9' 9" f	9' 7" d	8' 5" d	9' 1" f	9' 1" f	7' 11" d	8' 7" f	8' 7" f	7' 7" d	8' 3" f	8' 3" f	7' 3" d	7' 10" f	7' 10" f	7' 0" d	7' 7" f	7' 7" f	6' 9" d	7' 4" f	7' 4" f	6' 7" d
	15	8	7' 5" f	6' 11" d	6' 0" d	6' 5" f	6' 5" f	5' 9" d	6' 1" f	6' 1" f	5' 9" d	5' 9" f	5' 9" f	5' 9" f	5' 6" f	5' 6" f	5' 6" f	5' 4" f	5' 4" f	5' 4" f	5' 1" f	5' 1" f	5' 1" f	4' 11" f	4' 11" f	4' 11" f	4' 10" f	4' 10" f	4' 10" f
		10	8' 7" f	7' 9" d	6' 9" d	7' 4" f	7' 4" f	6' 5" d	6' 10" f	6' 10" f	6' 5" d	6' 6" f	6' 6" f	6' 5" d	6' 3" f	6' 3" f	6' 3" f	5' 11" f	5' 11" f	5' 11" f	5' 9" f	5' 9" f	5' 9" f	5' 6" f	5' 6" f	5' 6" f	5' 4" f	5' 4" f	5' 4" f
		12	10' 6" f	9' 2" d	8' 0" d	8' 7" f	8' 7" f	7' 7" d	8' 0" f	8' 0" f	7' 7" d	7' 7" f	7' 7" f	7' 4" d	7' 2" f	7' 2" f	6' 11" d	6' 10" f	6' 10" f	6' 8" d	6' 7" f	6' 7" f	6' 5" d	6' 4" f	6' 4" f	6' 2" d	6' 2" f	6' 2" f	6' 0" d
362JS250-54, 50ksi	9	6	12' 1" f	9' 10" d	8' 7" d	9' 11" f	9' 8" d	8' 2" d	9' 2" f	9' 2" f	8' 2" d	8' 7" f	8' 7" f	7' 10" d	8' 2" f	8' 2" f	7' 5" d	7' 9" f	7' 9" f	7' 1" d	7' 5" f	7' 5" f	6' 10" d	7' 2" f	7' 2" f	6' 7" d	6' 11" f	6' 11" f	6' 5" d
		8	16' 9" f	14' 3" d	12' 5" d	12' 3" f	11' 2" d	9' 8" d	11' 1" f	10' 3" d	8' 11" d	10' 3" f	9' 8" d	8' 5" d	9' 8" f	9' 2" d	8' 0" d	9' 2" f	8' 9" d	7' 8" d	8' 9" f	8' 6" d	7' 5" d	8' 5" f	8' 2" d	7' 2" d	8' 1" f	8' 0" d	7' 0" d
	11	8	11' 11" f	9' 10" d	8' 7" d	9' 7" f	9' 7" f	8' 2" d	8' 11" f	8' 11" f	8' 2" d	8' 5" f	8' 5" f	7' 9" d	8' 0" f	8' 0" f	7' 5" d	7' 8" f	7' 8" f	7' 1" d	7' 4" f	7' 4" f	6' 10" d	7' 1" f	7' 1" f	6' 7" d	6' 11" f	6' 11" f	6' 5" d
		10	16' 5" f	14' 3" d	12' 5" d	11' 10" f	10' 11" d	9' 7" d	10' 10" f	10' 2" d	8' 10" d	10' 1" f	9' 7" d	8' 4" d	9' 6" f	9' 2" d	8' 0" d	9' 1" f	8' 9" d	7' 8" d	8' 8" f	8' 6" d	7' 5" d	8' 5" f	8' 2" d	7' 2" d	8' 1" f	8' 0" d	7' 0" d
	13	8	9' 8" f	8' 4" d	7' 3" d	8' 2" f	8' 2" f	6' 11" d	7' 8" f	7' 8" f	6' 11" d	7' 4" f	7' 4" f	6' 11" d	7' 0" f	7' 0" f	6' 11" d	6' 8" f	6' 8" f	6' 7" d	6' 5" f	6' 5" f	6' 4" d	6' 3" f	6' 3" f	6' 2" d	6' 0" f	6' 0" f	5' 11" d
		10	11' 9" f	9' 10" d	8' 7" d	9' 7" f	9' 7" f	8' 2" d	8' 11" f	8' 11" f	8' 2" d	8' 5" f	8' 5" f	7' 9" d	8' 0" f	8' 0" f	7' 5" d	7' 8" f	7' 8" f	7' 1" d	7' 4" f	7' 4" f	6' 10" d	7' 1" f	7' 1" f	6' 7" d	6' 11" f	6' 11" f	6' 5" d
		12	16' 0" f	14' 3" d	12' 5" d	11' 9" f	10' 11" d	9' 7" d	10' 9" f	10' 2" d	8' 10" d	10' 1" f	9' 7" d	8' 4" d	9' 6" f	9' 1" d	8' 0" d	9' 1" f	8' 9" d	7' 8" d	8' 8" f	8' 6" d	7' 5" d	8' 5" f	8' 2" d	7' 2" d	8' 1" f	8' 0" d	7' 0" d
	15	8	8' 4" f	7' 5" d	6' 6" d	7' 3" f	7' 3" f	6' 2" d	6' 10" f	6' 10" f	6' 2" d	6' 6" f	6' 6" f	6' 2" d	6' 3" f	6' 3" f	6' 2" d	6' 0" f	6' 0" f	6' 0" f	5' 9" f	5' 9" f	5' 9" f	5' 7" f	5' 7" f	5' 7" f	5' 5" f	5' 5" f	5' 5" f
		10	9' 8" f	8' 4" d	7' 3" d	8' 2" f	8' 2" f	6' 11" d	7' 8" f	7' 8" f	6' 11" d	7' 4" f	7' 4" f	6' 11" d	7' 0" f	7' 0" f	6' 11" d	6' 8" f	6' 8" f	6' 7" d	6' 5" f	6' 5" f	6' 4" d	6' 3" f	6' 3" f	6' 2" d	6' 0" f	6' 0" f	5' 11" d
		12	11' 9" f	9' 10" d	8' 7" d	9' 7" f	9' 7" f	8' 2" d	8' 11" f	8' 11" f	8' 2" d	8' 5" f	8' 5" f	7' 9" d	8' 0" f	8' 0" f	7' 5" d	7' 8" f	7' 8" f	7' 1" d	7' 4" f	7' 4" f	6' 10" d	7' 1" f	7' 1" f	6' 7" d	6' 11" f	6' 11" f	6' 5" d
362JS250-68, 50ksi	9	6	13' 4" d	10' 7" d	9' 3" d	11' 2" f	10' 5" d	8' 9" d	10' 4" f	10' 4" f	8' 9" d	9' 8" f	9' 8" f	8' 5" d	9' 2" f	9' 2" f	7' 11" d	8' 9" f	8' 9" f	7' 7" d	8' 4" f	8' 4" f	7' 3" d	8' 0" f	8' 0" f	7' 0" d	7' 9" f	7' 9" f	6' 10" d
		8	19' 0" f	15' 4" d	13' 4" d	13' 6" d	11' 11" d	10' 3" d	12' 4" d	10' 11" d	9' 5" d	11' 6" f	10' 3" d	8' 11" d	10' 9" f	9' 9" d	8' 5" d	10' 2" f	9' 4" d	8' 1" d	9' 8" f	9' 0" d	7' 10" d	9' 4" f	8' 8" d	7' 7" d	8' 11" f	8' 5" d	7' 5" d
	11	8	13' 4" f	10' 7" d	9' 3" d	10' 9" f	10' 5" d	8' 9" d	10' 0" f	10' 0" f	8' 9" d	9' 5" f	9' 5" f	8' 3" d	8' 11" f	8' 11" f	7' 10" d	8' 6" f	8' 6" f	7' 6" d	8' 2" f	8' 2" f	7' 3" d	7' 11" f	7' 11" f	7' 0" d	7' 8" f	7' 8" f	6' 10" d
		10	18' 5" f	15' 4" d	13' 4" d	13' 0" d	11' 7" d	10' 1" d	12' 0" f	10' 9" d	9' 5" d	11' 2" f	10' 1" d	8' 10" d	10' 6" f	9' 8" d	8' 5" d	10' 0" f	9' 3" d	8' 1" d	9' 7" f	8' 11" d	7' 10" d	9' 3" f	8' 8" d	7' 7" d	8' 11" f	8' 5" d	7' 5" d
	13	8	10' 10" f	8' 11" d	7' 10" d	9' 2" f	8' 9" d	7' 5" d	8' 7" f	8' 7" f	7' 5" d	8' 2" f	8' 2" f	7' 5" d	7' 9" f	7' 9" f	7' 4" d	7' 5" f	7' 5" f	7' 0" d	7' 2" f	7' 2" f	6' 9" d	6' 11" f	6' 11" f	6' 6" d	6' 9" f	6' 9" f	6' 4" d
		10	13' 2" f	10' 7" d	9' 3" d	10' 7" f	10' 5" d	8' 9" d	9' 11" f	9' 11" f	8' 9" d	9' 4" f	9' 4" f	8' 3" d	8' 11" f	8' 11" f	7' 10" d	8' 6" f	8' 6" f	7' 6" d	8' 2" f	8' 2" f	7' 3" d	7' 11" f	7' 11" f	7' 0" d	7' 8" f	7' 8" f	6' 9" d
		12	17' 10" f	15' 4" d	13' 4" d	12' 10" d	11' 6" d	10' 1" d	11' 10" f	10' 9" d	9' 5" d	11' 1" f	10' 1" d	8' 10" d	10' 6" f	9' 8" d	8' 5" d	10' 0" f	9' 3" d	8' 1" d	9' 7" f	8' 11" d	7' 10" d	9' 3" f	8' 8" d	7' 7" d	8' 11" f	8' 5" d	7' 5" d
	15	8	9' 4" f	8' 0" d	7' 0" d	8' 1" f	7' 10" d	6' 7" d	7' 7" f	7' 7" f	6' 7" d	7' 3" f	7' 3" f	6' 7" d	6' 11" f	6' 11" f	6' 7" d	6' 8" f	6' 8" f	6' 7" d	6' 5" f	6' 5" f	6' 5" f	6' 3" f	6' 3" f	6' 2" d	6' 1" f	6' 1" f	6' 0" d
		10	10' 9" f	8' 11" d	7' 10" d	9' 1" f	8' 9" d	7' 5" d	8' 7" f	8' 7" f	7' 5" d	8' 2" f	8' 2" f	7' 5" d	7' 9" f	7' 9" f	7' 4" d	7' 5" f	7' 5" f	7' 0" d	7' 2" f	7' 2" f	6' 9" d	6' 11" f	6' 11" f	6' 6" d	6' 9" f	6' 9" f	6' 4" d
			13' 1" f	10' 7" d	9' 3" d	10' 7" f	10' 5" d	8' 9" d	9' 11" f	9' 11" f	8' 9" d	9' 4" f	9' 4" f	8' 3" d	8' 11" f	8' 11" f	7' 10" d	8' 6" f	8' 6" f	7' 6" d	8' 2" f	8' 2" f	7' 3" d	7' 11" f	7' 11" f	7' 0" d	7' 8" f	7' 8" f	6' 9" d
362JS250-97, 50ksi	9	6	14' 11" d	11' 10" d	10' 4" d	13' 3" f	11' 8" d	9' 10" d	12' 3" f	11' 8" d	9' 10" d	11' 8" f	10' 11" d	9' 3" d	11' 1" f	10' 3" d	8' 9" d	10' 6" f	9' 9" d	8' 4" d	10' 1" f	9' 5" d	8' 0" d	9' 8" f	9' 1" d	7' 9" d	9' 4" f	8' 9" d	7' 6" d
		8	21' 6" d	17' 1" d	14' 11" d	14' 11" d	13' 2" d	11' 3" d	13' 8" d	12' 1" d	10' 4" d	12' 9" d	11' 3" d	9' 9" d	12' 1" d	10' 8" d	9' 3" d	11' 6" d	10' 3" d	8' 10" d	11' 1" d	9' 10" d	8' 6" d	10' 8" d	9' 6" d	8' 3" d	10' 4" d	9' 3" d	8' 0" d
	11	8	14' 11" d	11' 10" d	10' 4" d	12' 11" f	11' 8" d	9' 10" d	11' 11" f	11' 3" d	9' 8" d	11' 2" f	10' 6" d	9' 0" d	10' 7" f	9' 11" d	8' 7" d	10' 1" f	9' 6" d	8' 2" d	9' 8" f	9' 2" d	7' 11" d	9' 4" f	8' 10" d	7' 8" d	9' 0" f	8' 7" d	7' 5" d
		10	21' 6" d	17' 1" d	14' 11" d	14' 4" d	12' 9" d	11' 0" d	13' 2" d	11' 9" d	10' 2" d	12' 4" d	11' 0" d	9' 8" d	11' 9" d	10' 6" d	9' 2" d	11' 3" d	10' 1" d	8' 10" d	10' 10" d	9' 9" d	8' 6" d	10' 6" d	9' 5" d	8' 3" d	10' 2" d	9' 2" d	8' 0" d
	13	8	12' 7" d	10' 0" d	8' 8" d	10' 10" f	9' 10" d	8' 3" d	10' 2" f	9' 10" d	8' 3" d	9' 8" f	9' 8" f	8' 3" d	9' 3" f	9' 3" f	8' 1" d	8' 10" f	8' 10" f	7' 9" d	8' 6" f	8' 6" f	7' 5" d	8' 3" f	8' 3" f	7' 2" d	8' 0" f	8' 0" f	6' 11" d
		10	14' 11" d	11' 10" d	10' 4" d	12' 7" f	11' 8" d	9' 10" d	11' 8" f	11' 0" d	9' 7" d	11' 0" f	10' 4" d	9' 0" d	10' 5" f	9' 10" d	8' 7" d	10' 0" f	9' 5" d	8' 2" d	9' 7" f	9' 1" d	7' 11" d	9' 3" f	8' 10" d	7' 8" d	9' 0" f	8' 7" d	7' 5" d
		12	21' 4" f	17' 1" d	14' 11" d	14' 0" d	12' 7" d	11' 0" d	12' 11" d	11' 8" d	10' 2" d	12' 3" d	11' 0" d	9' 8" d	11' 8" d	10' 6" d	9' 2" d	11' 2" d	10' 1" d	8' 10" d	10' 10" d	9' 9" d	8' 6" d	10' 6" d	9' 5" d	8' 3" d	10' 2" d	9' 2" d	8' 0" d
	15	8	11' 1" f	8' 11" d	7' 9" d	9' 7" f	8' 9" d	7' 4" d	9' 1" f	8' 9" d	7' 4" d	8' 7" f	8' 7" f	7' 4" d	8' 3" f	8' 3" f	7' 4" d	7' 11" f	7' 11" f	7' 4" d	7' 8" f	7' 8" f	7' 0" d	7' 5" f	7' 5" f	6' 9" d	7' 2" f	7' 2" f	6' 7" d
		10	12' 7" d	10' 0" d	8' 8" d	10' 9" f	9' 10" d	8' 3" d	10' 1" f	9' 10" d	8' 3" d	9' 7" f	9' 7" f	8' 3" d	9' 2" f	9' 2" f	8' 1" d	8' 10" f	8' 10" f	7' 8" d	8' 6" f	8' 6" f	7' 5" d	8' 3" f	8' 3" f	7' 2" d	8' 0" f	8' 0" f	6' 11" d
		12	14' 11" d	11' 10" d	10' 4" d	12' 5" f	11' 8" d	9' 10" d	11' 7" f	11' 0" d	9' 7" d	11' 0" f	10' 4" d	9' 0" d	10' 5" f	9' 10" d	8' 7" d	10' 0" f	9' 5" d	8' 2" d	9' 7" f	9' 1" d	7' 11" d	9' 3" f	8' 10" d	7' 8" d	9' 0" f	8' 7" d	7' 5" d

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Header Spans

Refer to Important Table Notes on Page 35

JamStud Member	Wall Ht. (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																										
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
362JS350-68, 50ksi	9	6	16' 4" f	13' 11" d	12' 2" d	12' 5" f	12' 3" d	10' 8" d	11' 7" f	11' 5" d	9' 9" d	10' 9" f	10' 8" d	9' 1" d	10' 1" f	10' 1" f	8' 7" d	9' 6" f	9' 6" f	8' 2" d	9' 1" f	9' 1" f	7' 10" d	8' 8" f	8' 8" f	7' 7" d	8' 4" f	8' 4" f	7' 4" d
		8	21' 7" f	18' 0" d	15' 11" d	14' 7" d	12' 10" d	11' 1" d	13' 4" f	11' 10" d	10' 2" d	12' 3" f	11' 1" d	9' 6" d	11' 4" f	10' 6" d	9' 1" d	10' 9" f	10' 0" d	8' 8" d	10' 2" f	9' 8" d	8' 4" d	9' 9" f	9' 4" d	8' 1" d	9' 4" f	9' 1" d	7' 11" d
	11	8	15' 11" f	13' 11" d	12' 2" d	12' 1" f	12' 0" d	10' 3" d	11' 1" f	11' 0" d	9' 5" d	10' 3" f	10' 3" f	8' 10" d	9' 8" f	9' 8" f	8' 5" d	9' 2" f	9' 2" f	8' 1" d	8' 9" f	8' 9" f	7' 9" d	8' 5" f	8' 5" f	7' 6" d	8' 2" f	8' 2" f	7' 3" d
		10	20' 2" f	17' 7" d	15' 6" d	14' 0" d	12' 6" d	10' 10" d	12' 9" f	11' 6" d	10' 0" d	11' 9" f	10' 10" d	9' 5" d	11' 0" f	10' 4" d	9' 0" d	10' 5" f	9' 11" d	8' 8" d	10' 0" f	9' 7" d	8' 4" d	9' 7" f	9' 3" d	8' 1" d	9' 3" f	9' 0" d	7' 11" d
	13	8	13' 1" f	11' 9" d	10' 3" d	10' 5" f	10' 5" f	9' 8" d	9' 8" f	9' 8" f	8' 11" d	9' 0" f	9' 0" f	8' 4" d	8' 7" f	8' 7" f	7' 11" d	8' 2" f	8' 2" f	7' 7" d	7' 10" f	7' 10" f	7' 3" d	7' 6" f	7' 6" f	7' 0" d	7' 3" f	7' 3" f	6' 10" d
		10	15' 6" f	13' 11" d	12' 2" d	11' 9" f	11' 9" f	10' 2" d	10' 10" f	10' 10" f	9' 5" d	10' 1" f	10' 1" f	8' 10" d	9' 7" f	9' 7" f	8' 5" d	9' 1" f	9' 1" f	8' 1" d	8' 9" f	8' 9" f	7' 9" d	8' 5" f	8' 5" f	7' 6" d	8' 2" f	8' 2" f	7' 3" d
		12	19' 10" f	17' 0" d	15' 1" d	13' 9" f	12' 4" d	10' 10" d	12' 6" f	11' 5" d	10' 0" d	11' 8" f	10' 10" d	9' 5" d	11' 0" f	10' 4" d	9' 0" d	10' 5" f	9' 11" d	8' 8" d	10' 0" f	9' 7" d	8' 4" d	9' 7" f	9' 3" d	8' 1" d	9' 3" f	9' 0" d	7' 11" d
	15	8	11' 5" f	10' 6" d	9' 2" d	9' 4" f	9' 4" f	8' 8" d	8' 8" f	8' 8" f	8' 5" d	8' 2" f	8' 2" f	7' 11" d	7' 9" f	7' 9" f	7' 6" d	7' 5" f	7' 5" f	7' 2" d	7' 1" f	7' 1" f	6' 11" d	6' 10" f	6' 10" f	6' 8" d	6' 7" f	6' 7" f	6' 5" d
		10	12' 11" f	11' 9" d	10' 3" d	10' 4" f	10' 4" f	9' 8" d	9' 7" f	9' 7" f	8' 10" d	9' 0" f	9' 0" f	8' 4" d	8' 6" f	8' 6" f	7' 11" d	8' 2" f	8' 2" f	7' 7" d	7' 10" f	7' 10" f	7' 3" d	7' 6" f	7' 6" f	7' 0" d	7' 3" f	7' 3" f	6' 10" d
		12	15' 3" f	13' 11" d	12' 2" d	11' 8" f	11' 8" f	10' 2" d	10' 10" f	10' 10" f	9' 5" d	10' 1" f	10' 1" f	8' 10" d	9' 7" f	9' 7" f	8' 5" d	9' 1" f	9' 1" f	8' 1" d	8' 9" f	8' 9" f	7' 9" d	8' 5" f	8' 5" f	7' 6" d	8' 2" f	8' 2" f	7' 3" d
362JS350-97, 50ksi	9	6	19' 7" d	15' 6" d	13' 7" d	15' 3" f	13' 8" d	11' 10" d	13' 11" f	12' 5" d	10' 9" d	12' 11" f	11' 10" d	10' 1" d	12' 1" f	11' 2" d	9' 6" d	11' 8" f	10' 7" d	9' 0" d	11' 1" f	10' 2" d	8' 8" d	10' 7" f	9' 10" d	8' 4" d	10' 2" f	9' 6" d	8' 1" d
		8	25' 4" d	20' 1" d	17' 7" d	15' 11" d	14' 3" d	12' 2" d	14' 9" d	13' 0" d	11' 2" d	13' 9" d	12' 2" d	10' 5" d	13' 0" d	11' 6" d	9' 11" d	12' 5" d	11' 0" d	9' 6" d	11' 11" d	10' 7" d	9' 2" d	11' 6" d	10' 3" d	8' 10" d	11' 2" d	9' 11" d	8' 7" d
	11	8	19' 0" f	15' 6" d	13' 7" d	14' 8" f	13' 3" d	11' 4" d	13' 5" f	12' 2" d	10' 5" d	12' 5" f	11' 4" d	9' 9" d	11' 8" f	10' 9" d	9' 3" d	11' 1" f	10' 3" d	8' 10" d	10' 7" f	9' 10" d	8' 6" d	10' 2" f	9' 6" d	8' 3" d	9' 9" f	9' 3" d	8' 0" d
		10	23' 8" d	19' 5" d	17' 1" d	15' 5" d	13' 8" d	11' 10" d	14' 2" d	12' 7" d	10' 11" d	13' 3" d	11' 10" d	10' 4" d	12' 7" d	11' 3" d	9' 10" d	12' 1" d	10' 9" d	9' 5" d	11' 7" d	10' 5" d	9' 1" d	11' 3" d	10' 1" d	8' 10" d	10' 11" f	9' 10" d	8' 7" d
	13	8	15' 9" f	13' 1" d	11' 5" d	12' 7" f	12' 6" d	10' 8" d	11' 8" f	11' 5" d	9' 10" d	10' 11" f	10' 8" d	9' 2" d	10' 4" f	10' 1" d	8' 8" d	9' 10" f	9' 8" d	8' 4" d	9' 5" f	9' 3" d	8' 0" d	9' 0" f	8' 11" d	7' 9" d	8' 9" f	8' 8" d	7' 6" d
		10	18' 8" f	15' 6" d	13' 7" d	14' 2" f	12' 11" d	11' 1" d	13' 0" f	11' 10" d	10' 3" d	12' 1" f	11' 1" d	9' 8" d	11' 5" f	10' 7" d	9' 2" d	10' 10" f	10' 2" d	8' 10" d	10' 4" f	9' 9" d	8' 6" d	10' 0" f	9' 5" d	8' 3" d	9' 8" f	9' 2" d	8' 0" d
		12	23' 2" d	18' 9" d	16' 7" d	15' 1" d	13' 5" d	11' 9" d	13' 11" d	12' 5" d	10' 11" d	13' 1" d	11' 9" d	10' 3" d	12' 5" d	11' 2" d	9' 10" d	11' 11" d	10' 9" d	9' 5" d	11' 7" d	10' 5" d	9' 1" d	11' 2" d	10' 1" d	8' 10" d	10' 10" f	9' 10" d	8' 7" d
	15	8	13' 8" f	11' 8" d	10' 3" d	11' 3" f	11' 3" f	9' 8" d	10' 5" f	10' 5" f	9' 4" d	9' 10" f	9' 10" f	8' 8" d	9' 4" f	9' 4" f	8' 3" d	8' 11" f	8' 11" f	7' 10" d	8' 6" f	8' 6" f	7' 7" d	8' 3" f	8' 3" f	7' 4" d	7' 11" f	7' 11" f	7' 1" d
		10	15' 6" f	13' 1" d	11' 5" d	12' 4" f	12' 3" d	10' 7" d	11' 5" f	11' 3" d	9' 9" d	10' 9" f	10' 7" d	9' 2" d	10' 2" f	10' 0" d	8' 8" d	9' 9" f	9' 7" d	8' 4" d	9' 4" f	9' 3" d	8' 0" d	9' 0" f	8' 11" d	7' 9" d	8' 8" f	8' 8" d	7' 6" d
		12	18' 4" f	15' 6" d	13' 7" d	13' 11" f	12' 9" d	11' 1" d	12' 10" f	11' 9" d	10' 3" d	12' 0" f	11' 1" d	9' 8" d	11' 4" f	10' 7" d	9' 2" d	10' 10" f	10' 1" d	8' 10" d	10' 4" f	9' 9" d	8' 6" d	10' 0" f	9' 5" d	8' 3" d	9' 8" f	9' 2" d	8' 0" d
362JS350-118, 50ksi	9	6	20' 10" d	16' 6" d	14' 5" d	16' 8" d	14' 6" d	12' 3" d	15' 1" d	13' 2" d	11' 5" d	14' 0" d	12' 3" d	10' 7" d	13' 2" d	11' 9" d	10' 0" d	12' 6" d	11' 3" d	9' 7" d	12' 0" d	10' 9" d	9' 2" d	11' 9" d	10' 4" d	8' 10" d	11' 5" d	10' 0" d	8' 7" d
		8	26' 10" d	21' 4" d	18' 7" d	16' 8" d	15' 0" d	12' 10" d	15' 7" d	13' 9" d	11' 9" d	14' 7" d	12' 10" d	11' 0" d	13' 9" d	12' 2" d	10' 5" d	13' 1" d	11' 7" d	10' 0" d	12' 7" d	11' 2" d	9' 7" d	12' 2" d	10' 9" d	9' 4" d	11' 9" d	10' 5" d	9' 0" d
	11	8	20' 10" d	16' 6" d	14' 5" d	15' 11" d	14' 0" d	12' 0" d	14' 7" d	12' 10" d	11' 0" d	13' 7" d	12' 0" d	10' 3" d	12' 10" d	11' 4" d	9' 9" d	12' 3" d	10' 10" d	9' 3" d	11' 9" d	10' 4" d	8' 11" d	11' 4" f	10' 0" d	8' 8" d	10' 11" f	9' 9" d	8' 5" d
		10	25' 1" d	19' 11" d	18' 1" d	16' 4" d	14' 5" d	12' 5" d	14' 11" d	13' 3" d	11' 6" d	14' 0" d	12' 5" d	10' 9" d	13' 3" d	11' 10" d	10' 3" d	12' 8" d	11' 4" d	9' 10" d	12' 2" d	10' 11" d	9' 6" d	11' 10" d	10' 7" d	9' 3" d	11' 6" d	10' 3" d	9' 0" d
	13	8	17' 4" f	13' 11" d	12' 2" d	14' 1" f	13' 3" d	11' 3" d	13' 1" f	12' 1" d	10' 4" d	12' 3" f	11' 3" d	9' 8" d	11' 7" f	10' 8" d	9' 2" d	11' 0" f	10' 2" d	8' 9" d	10' 6" f	9' 9" d	8' 5" d	10' 1" f	9' 5" d	8' 1" d	9' 9" f	9' 2" d	7' 11" d
		10	20' 6" f	16' 6" d	14' 5" d	15' 4" d	13' 7" d	11' 8" d	14' 1" d	12' 6" d	10' 9" d	13' 2" d	11' 8" d	10' 2" d	12' 6" d	11' 1" d	9' 8" d	11' 11" d	10' 8" d	9' 3" d	11' 6" f	10' 3" d	8' 11" d	11' 1" f	9' 11" d	8' 8" d	10' 8" f	9' 8" d	8' 5" d
		12	23' 11" d	19' 9" d	17' 6" d	15' 10" d	14' 1" d	12' 4" d	14' 7" d	13' 1" d	11' 5" d	13' 9" d	12' 4" d	10' 9" d	13' 1" d	11' 9" d	10' 3" d	12' 6" d	11' 3" d	9' 10" d	12' 1" d	10' 11" d	9' 6" d	11' 9" d	10' 7" d	9' 3" d	11' 5" d	10' 3" d	9' 0" d
	15	8	15' 1" f	12' 5" d	10' 10" d	12' 6" f	12' 3" d	10' 4" d	11' 8" f	11' 6" d	9' 10" d	11' 0" f	10' 9" d	9' 2" d	10' 5" f	10' 2" d	8' 8" d	9' 11" f	9' 8" d	8' 4" d	9' 7" f	9' 3" d	8' 0" d	9' 2" f	9' 0" d	7' 8" d	8' 11" f	8' 8" d	7' 6" d
		10	17' 2" f	13' 11" d	12' 2" d	13' 9" f	12' 11" d	11' 1" d	12' 9" f	11' 10" d	10' 3" d	12' 0" f	11' 1" d	9' 7" d	11' 4" f	10' 6" d	9' 1" d	10' 10" f	10' 1" d	8' 9" d	10' 4" f	9' 8" d	8' 5" d	10' 0" f	9' 5" d	8' 1" d	9' 8" f	9' 1" d	7' 11" d
		12	20' 4" f	16' 6" d	14' 5" d	15' 0" d	13' 5" d	11' 8" d	13' 10" d	12' 4" d	10' 9" d	13' 0" d	11' 8" d	10' 2" d	12' 4" d	11' 1" d	9' 8" d	11' 10" d	10' 8" d	9' 3" d	11' 5" d	10' 3" d	8' 11" d	11' 1" f	9' 11" d	8' 7" d	10' 8" f	9' 8" d	8' 4" d
400JS250-33, 50ksi	9	6	9' 0" f	8' 6" d	7' 5" d	7' 6" f	7' 6" f	7' 1" d	7' 0" f	7' 0" f	7' 0" f	6' 8" f	6' 8" f	6' 8" f	6' 4" f	6' 4" f	6' 4" f	6' 1" f	6' 1" f	6' 1" f	5' 10" f	5' 10" f	5' 10" f	5' 8" f	5' 8" f	5' 8" f	5' 6" f	5' 6" f	5' 6" f
		8	12' 11" f	12' 4" d	10' 9" d	9' 7" f	9' 7" f	9' 0" d	8' 10" f	8' 10" f	8' 4" d	8' 3" f	8' 3" f	7' 10" d	7' 9" f	7' 9" f	7' 6" d	7' 5" f	7' 5" f	7' 2" d	7' 1" f	7' 1" f	6' 11" d	6' 10" f	6' 10" f	6' 9" d	6' 8" f	6' 8" f	6' 7" d
	11	8	8' 11" f	8' 6" d	7' 5" d	7' 5" f	7' 5" f	7' 1" d	7' 0" f	7' 0" f	7' 0" f	6' 7" f	6' 7" f	6' 7" f	6' 4" f	6' 4" f	6' 4" f	6' 1" f	6' 1" f	6' 1" f	5' 10" f	5' 10" f	5' 10" f	5' 8" f	5' 8" f	5' 8" f	5' 6" f	5' 6" f	5' 6" f
		10	12' 7" f	12' 4" d	10' 9" d	9' 6" f	9' 6" f	9' 0" d	8' 9" f	8' 9" f	8' 4" d	8' 3" f	8' 3" f	7' 10" d	7' 9" f	7' 9" f	7' 6" d	7' 5" f	7' 5" f	7' 2" d	7' 1" f	7' 1" f	6' 11" d	6' 10" f	6' 10" f	6' 9" d	6' 8" f	6' 8" f	6' 7" d
	13	8	7' 3" f	7' 2" d	6' 3" d	6' 3" f	6' 3" f	5' 11" d	5' 11" f	5' 11" f	5' 11" f	5' 8" f	5' 8" f	5' 8" f	5' 5" f	5' 5" f	5' 5" f	5' 2" f	5' 2" f	5' 2" f	5' 0" f	5' 0" f	5' 0" f	4' 10" f	4' 10" f	4' 10" f	4' 8" f	4' 8" f	4' 8" f
		10	8' 11" f	8' 6" d	7' 5" d	7' 5" f	7' 5" f	7' 1" d	7' 0" f	7' 0" f	7' 0" f	6' 7" f	6' 7" f	6' 7" f	6' 4" f	6' 4" f	6' 4" f	6' 1" f	6' 1" f	6' 1" f	5' 10" f	5' 10" f	5' 10" f	5' 8" f	5' 8" f	5' 8" f	5' 6" f	5' 6" f	5' 6" f
		12	12' 5" f	12' 4" d	10' 9" d	9' 6" f	9' 6" f	9' 0" d	8' 9" f	8' 9" f	8' 4" d	8' 3" f	8' 3" f	7' 10" d	7' 9" f	7' 9" f	7' 6" d	7' 5" f	7' 5" f	7' 2" d	7' 1" f	7' 1" f	6' 11" d	6' 10" f	6' 10" f	6' 9" d	6' 8" f	6' 8" f	6' 7" d
	15	8	6' 2" f	6' 2" f	5' 7" d	5' 6" f	5' 6" f	5' 4" d	5' 2" f	5' 2" f	5' 2" f	4' 11" f	4' 11" f	4' 11" f	4' 9" f	4' 9" f	4' 9" f	4' 7" f	4' 7" f	4' 7" f	4' 5" f	4' 5" f	4' 5" f	4' 3" f	4' 3" f	4' 3" f	4' 2" f	4' 2" f	4' 2" f
		10	7' 3" f	7' 2" d	6' 3" d	6' 3" f	6' 3" f	5' 11" d	5' 11" f	5' 11" f	5' 11" f	5' 8" f	5' 8" f	5' 8" f	5' 5" f	5' 5" f	5' 5" f	5' 2" f	5' 2" f	5' 2" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f	5' 0" f
		12	8' 11" f	8' 6" d	7' 5" d	7' 5" f	7' 5" f	7' 1" d	7' 0" f	7' 0" f	7' 0" f	6' 7" f	6' 7" f	6' 7" f	6' 4" f	6' 4" f	6' 4" f	6' 1" f	6' 1" f	6' 1" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f	6' 0" f
400JS250-43, 50ksi	9	6	10' 9" f	9' 3" d	8' 1" d	8' 11" f	8' 11" f	7' 8" d	8' 4" f	8' 4" f	7' 8" d	7' 10" f	7' 10" f	7' 8" d	7' 5" f	7' 5" f	7' 5" f	7' 1" f	7' 1" f	7' 1" f	6' 10" f	6' 10" f	6' 10" f	6' 7" f	6' 7" f	6' 7" f	6' 4" f	6' 4" f	6' 4" f
		8	15' 5" f	13' 5" d	11' 9" d	11' 3" f	11' 3" f	9' 8" d	10' 3" f	10' 3" f	8' 11" d	9' 6" f	9' 6" f	8' 5" d	8' 11" f	8' 11" f	8' 0" d	8' 6" f	8' 6" f	7' 8" d	8' 2" f	8' 2" f	7' 5" d	7' 10" f	7' 10" f	7' 2" d	7' 7" f	7' 7" f	7' 0" d
	11	8	10' 7" f	9' 3" d	8' 1" d	8' 9" f	8' 9" f	7' 8" d	8' 2" f	8' 2" f	7' 8" d	7' 9" f	7' 9" f	7' 8" d	7' 4" f	7' 4" f	7' 4" f	7' 1" f	7' 1" f	7' 1" f	6' 9" f	6' 9" f	6' 9" f	6' 7" f	6' 7" f	6' 7" f	6' 4" f	6' 4" f	6' 4" f
		10	14' 10" f	13' 5" d	11' 9" d	10' 11" f	10' 11" f	9' 7" d	10' 1" f	10' 1" f	8' 11" d	9' 5" f	9' 5" f	8' 5" d	8' 11" f	8' 11" f	8' 0" d	8' 6" f	8' 6" f	7' 8" d	8' 2" f	8' 2" f	7' 5" d	7' 10" f	7' 10" f	7' 2" d	7' 7" f	7' 7" f	7' 0" d
	13	8	8' 7" f	7' 10" d	6' 10" d	7' 5" f	7' 5" f	6' 6" d	7' 0" f	7' 0" f	6' 6" d	6' 8" f	6' 8" f	6' 6" d	6' 4" f	6' 4" f	6' 4" f	6' 1" f	6' 1" f	6' 1" f	5' 11" f	5' 11" f	5' 11" f	5' 8" f	5' 8" f	5' 8" f	5' 6" f	5' 6" f	5' 6" f
		10	10' 7" f	9' 3" d	8' 1" d	8' 9" f	8' 9" f	7' 8" d	8' 2" f	8' 2" f	7' 8" d	7' 9" f	7' 9" f	7' 8" d	7' 4" f	7' 4" f	7' 4" f	7' 1" f	7' 1" f	7' 1" f	6' 9" f	6' 9" f	6' 9" f	6' 7" f	6' 7" f	6' 7" f	6' 4" f	6' 4" f	6' 4" f
		12	14' 7" f	13' 5" d	11' 9" d	10' 11" f	10' 11" f	9' 7" d	10' 1" f	10' 1" f	8' 11" d	9' 5" f	9' 5" f	8' 5" d	8' 11" f	8' 11" f	8' 0" d	8' 6" f	8' 6" f	7' 8" d	8' 2" f	8' 2" f	7' 5" d	7' 10" f	7' 10" f	7' 2" d	7' 7" f	7' 7" f	7' 0" d
	15	8	7' 5" f	7' 0" d	6' 1" d	6' 6" f	6' 6" f	5' 10" d	6' 2" f	6' 2" f	5' 10" d	5' 10" f	5' 10" f	5' 10" f	5' 8" f	5' 8" f	5' 8" f	5' 5" f	5' 5" f	5' 5" f	5' 3" f	5' 3" f	5' 3" f	5' 1" f	5' 1" f	5' 1" f	4' 11" f	4' 11" f	4' 11" f
		10	8' 7" f	7' 10" d	6' 10" d	7' 5" f	7' 5" f	6' 6" d	7' 0" f	7' 0" f	6' 6" d	6' 8" f	6' 8" f	6' 6" d	6' 4" f	6' 4" f	6' 4" f	6' 1" f	6' 1" f	6' 1" f	5' 11" f	5' 11" f	5' 11" f	5' 8" f	5' 8" f	5' 8" f	5' 6" f	5' 6" f	5' 6" f
		12	10' 6" f	9' 3" d	8' 1" d	8' 9" f	8' 9" f	7' 8" d	8' 2" f	8' 2" f	7' 8" d	7' 9" f	7' 9" f	7' 8" d	7' 4" f	7' 4" f	7' 4" f	7' 1" f	7' 1" f	7' 1" f	6' 9" f	6' 9" f	6' 9" f	6' 7" f	6' 7" f	6' 7" f	6' 4" f	6' 4" f	6' 4" f
400JS250-54, 50ksi	9	6	12' 4" f	10' 0" d	8' 9" d	10' 3" f	9' 10" d	8' 3" d	9' 6" f	9' 6" f	8' 3" d	9' 0" f	9' 0" f	8' 3" d	8' 6" f	8' 6" f	8' 0" d	8' 1" f	8' 1" f	7' 7" d	7' 9" f	7' 9" f	7' 4" d	7' 6" f	7' 6" f	7' 1" d	7' 3" f	7' 3" f	6' 10" d
		8	17' 5" f	14' 5" d	12' 7" d	12' 10" f	12' 0" d	10' 4" d	11' 8" f	11' 0" d	9' 6" d	10' 9" f	10' 4" d	8' 11" d	10' 1" f	9' 9" d	8' 6" d	9' 7" f	9' 4" d	8' 2" d	9' 2" f	9' 0" d	7' 10" d	8' 9" f	8' 9" f	7' 7" d	8' 6" f	8' 6" f	7' 5" d
	11	8	12' 2" f	10' 0" d	8' 9" d	9' 11" f	9' 10" d	8' 3" d	9' 3" f	9' 3" f	8' 3" d	8' 9" f	8' 9" f	8' 3" d	8' 4" f	8' 4" f	7' 10" d	8' 0" f	8' 0" f	7' 6" d	7' 8" f	7' 8" f	7' 3" d	7' 5" f	7' 5" f	7' 0" d	7' 2" f	7' 2" f	6' 10" d
		10	17' 0" f	14' 5" d	12' 7" d	12' 4" f	11' 8" d	10' 2" d	11' 3" f	10' 9" d	9' 5" d	10' 6" f	10' 2" d	8' 11" d	9' 11" f	9' 8" d	8' 6" d	9' 6" f	9' 3" d	8' 2" d	9' 1" f	9' 0" d	7' 10" d	8' 9" f	8' 8" d	7' 7" d	8' 5" f	8' 5" f	7' 5" d
	13	8	9' 10" f	8' 5" d	7' 4" d	8' 5" f	8' 3" d	7' 0" d	7' 11" f	7' 11" f	7' 0" d	7' 7" f	7' 7" f	7' 0" d	7' 3" f	7' 3" f	7' 0" d	6' 11" f	6' 11" f	6' 11" f	6' 8" f	6' 8" f	6' 8" f	6' 6" f	6' 6" f	6' 6" f	6' 3" f	6' 3" f	6' 3" f
		10	12' 1" f	10' 0" d	8' 9" d	9' 10" f	9' 10" f	8' 3" d	9' 3" f	9' 3" f	8' 3" d	8' 9" f	8' 9" f	8' 3" d	8' 4" f	8' 4" f	7' 10" d	8' 0" f	8' 0" f	7' 6" d	7' 8" f	7' 8" f	7' 3" d	7' 5" f	7' 5" f	7' 0" d	7' 2" f	7' 2" f	6' 10" d
		12	16' 7" f	14' 5" d	12' 7" d	12' 2" f	11' 7" d	10' 2" d	11' 3" f	10' 9" d	9' 5" d	10' 6" f	10' 2" d	8' 11" d	9' 11" f	9' 8" d	8' 6" d	9' 6" f	9' 4" d	8' 2" d	9' 1" f	9' 0" d	7' 10" d	8' 9" f	8' 8" d	7' 7" d	8' 5" f	8' 5" f	7' 5" d
	15	8	8' 6" f	7' 6" d	6' 7" d	7' 5" f	7' 5" f	6' 3" d	7' 0" f	7' 0" f	6' 3" d	6' 9" f	6' 9" f	6' 3" d	6' 5" f	6' 5" f	6' 3" d	6' 2" f	6' 2" f	6' 2" f	6' 0" f	6' 0" f	6' 0" f	5' 9" f	5' 9" f	5' 9" f	5' 7" f	5' 7" f	5' 7" f
		10	9' 10" f	8' 5" d	7' 4" d	8' 5" f	8' 3" d	7' 0" d	7' 11" f	7' 11" f	7' 0" d	7' 7" f	7' 7" f	7' 0" d	7' 3" f	7' 3" f	7' 0" d	6' 11" f	6' 11" f	6' 11" f	6' 8" f	6' 8" f	6' 8" f	6' 6" f	6' 6" f	6' 6" f	6' 3" f	6' 3" f	6' 3" f
		12	12' 0" f	10' 0" d	8' 9" d	9' 10" f	9' 10" f	8' 3" d	9' 3" f	9' 3" f	8' 3" d	8' 9" f	8' 9" f	8' 3" d	8' 4" f	8' 4" f	7' 10" d	8' 0" f	8' 0" f	7' 6" d	7' 8" f	7' 8" f	7' 3" d	7' 5" f	7' 5" f	7' 0" d	7' 2" f	7' 2" f	6' 10" d

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Header Spans

Refer to Important Table Notes on Page 35

JamStud Member	Wall Ht. (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																									
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400JS250-68, 50ksi	9	6	13'6"d	10'9"d	9'5"d	11'6"f	10'7"d	8'11"d	10'9"f	10'7"d	8'11"d	10'1"f	10'1"f	8'11"d	9'7"f	9'7"f	8'6"d	9'1"f	9'1"f	8'1"d	8'9"f	8'9"f	7'10"d	8'5"f	8'5"f	7'6"d	8'1"f	8'1"f	7'3"d
		8	19'7"d	15'6"d	13'6"d	14'5"f	12'9"d	11'0"d	13'1"f	11'9"d	10'1"d	12'1"f	11'0"d	9'6"d	11'4"f	10'5"d	9'0"d	10'8"f	9'11"d	8'7"d	10'2"f	9'7"d	8'4"d	9'9"f	9'3"d	8'1"d	9'5"f	9'0"d	7'10"d
	11	8	13'6"d	10'9"d	9'5"d	11'2"f	10'7"d	8'11"d	10'4"f	10'4"f	8'11"d	9'9"f	9'9"f	8'9"d	9'3"f	9'3"f	8'4"d	8'10"f	8'10"f	8'0"d	8'6"f	8'6"f	7'8"d	8'3"f	8'3"f	7'5"d	7'11"f	7'11"f	7'3"d
		10	19'1"f	15'6"d	13'6"d	13'10"f	12'5"d	10'9"d	12'7"f	11'5"d	9'11"d	11'8"f	10'9"d	9'5"d	11'0"f	10'3"d	9'0"d	10'5"f	9'10"d	8'7"d	10'0"f	9'6"d	8'4"d	9'7"f	9'2"d	8'1"d	9'4"f	9'0"d	7'10"d
	13	8	11'0"f	9'1"d	7'11"d	9'5"f	8'11"d	7'6"d	8'10"f	8'10"f	7'6"d	8'5"f	8'5"f	7'6"d	8'1"f	8'1"f	7'6"d	7'9"f	7'9"f	7'6"d	7'6"f	7'6"f	7'3"d	7'3"f	7'3"f	7'0"d	7'0"f	7'0"f	6'9"d
		10	13'6"f	10'9"d	9'5"d	11'0"f	10'7"d	8'11"d	10'3"f	10'3"f	8'11"d	9'8"f	9'8"f	8'9"d	9'3"f	9'3"f	8'4"d	8'10"f	8'10"f	8'0"d	8'6"f	8'6"f	7'8"d	8'3"f	8'3"f	7'5"d	7'11"f	7'11"f	7'3"d
		12	18'6"f	15'6"d	13'6"d	13'6"f	12'3"d	10'9"d	12'4"f	11'4"d	9'11"d	11'7"f	10'9"d	9'5"d	10'11"f	10'3"d	9'0"d	10'5"f	9'10"d	8'7"d	10'0"f	9'6"d	8'4"d	9'7"f	9'3"d	8'1"d	9'4"f	9'0"d	7'10"d
	15	8	9'6"f	8'1"d	7'1"d	8'3"f	7'11"d	6'8"d	7'10"f	7'10"f	6'8"d	7'6"f	7'6"f	6'8"d	7'2"f	7'2"f	6'8"d	6'11"f	6'11"f	6'8"d	6'8"f	6'8"f	6'8"f	6'6"f	6'6"f	6'6"f	6'4"f	6'4"f	6'4"f
		10	11'0"f	9'1"d	7'11"d	9'4"f	8'11"d	7'6"d	8'10"f	8'10"f	7'6"d	8'5"f	8'5"f	7'6"d	8'1"f	8'1"f	7'6"d	7'9"f	7'9"f	7'6"d	7'6"f	7'6"f	7'3"d	7'3"f	7'3"f	7'0"d	7'0"f	7'0"f	6'9"d
		12	13'4"f	10'9"d	9'5"d	10'11"f	10'7"d	8'11"d	10'3"f	10'3"f	8'11"d	9'8"f	9'8"f	8'9"d	9'3"f	9'3"f	8'4"d	8'10"f	8'10"f	8'0"d	8'6"f	8'6"f	7'8"d	8'3"f	8'3"f	7'5"d	7'11"f	7'11"f	7'3"d
400JS250-97, 50ksi	9	6	15'1"d	12'0"d	10'5"d	13'6"d	11'9"d	9'11"d	12'9"f	11'9"d	9'11"d	12'0"f	11'9"d	9'11"d	11'6"f	11'1"d	9'5"d	11'0"f	10'6"d	9'0"d	10'6"f	10'1"d	8'7"d	10'2"f	9'9"d	8'4"d	9'9"f	9'5"d	8'0"d
		8	21'10"d	17'3"d	15'1"d	15'11"d	14'1"d	12'1"d	14'8"d	12'11"d	11'1"d	13'8"d	12'1"d	10'5"d	12'11"d	11'5"d	9'10"d	12'4"d	10'11"d	9'5"d	11'10"d	10'6"d	9'1"d	11'5"d	10'2"d	8'10"d	11'1"d	9'10"d	8'7"d
	11	8	15'1"d	12'0"d	10'5"d	13'4"f	11'9"d	9'11"d	12'5"f	11'9"d	9'11"d	11'8"f	11'3"d	9'8"d	11'1"f	10'8"d	9'2"d	10'7"f	10'2"d	8'9"d	10'1"f	9'9"d	8'5"d	9'9"f	9'5"d	8'2"d	9'5"f	9'2"d	7'11"d
		10	21'10"d	17'3"d	15'1"d	15'4"d	13'7"d	11'9"d	14'1"d	12'6"d	10'10"d	13'2"d	11'9"d	10'3"d	12'6"d	11'2"d	9'9"d	12'0"d	10'9"d	9'4"d	11'6"d	10'4"d	9'1"d	11'2"d	10'0"d	8'9"d	10'10"f	9'9"d	8'6"d
	13	8	12'9"d	10'1"d	8'10"d	11'3"f	9'11"d	8'4"d	10'7"f	9'11"d	8'4"d	10'0"f	9'11"d	8'4"d	9'7"f	9'7"f	8'4"d	9'2"f	9'2"f	8'3"d	8'10"f	8'10"f	7'11"d	8'7"f	8'7"f	7'8"d	8'4"f	8'4"f	7'5"d
		10	15'1"d	12'0"d	10'5"d	13'0"f	11'9"d	9'11"d	12'1"f	11'9"d	9'11"d	11'5"f	11'1"d	9'7"d	10'10"f	10'6"d	9'1"d	10'5"f	10'1"d	8'9"d	10'0"f	9'8"d	8'5"d	9'8"f	9'5"d	8'2"d	9'4"f	9'1"d	7'11"d
		12	21'10"d	17'3"d	15'1"d	14'11"d	13'4"d	11'8"d	13'9"d	12'4"d	10'10"d	13'0"d	11'8"d	10'3"d	12'4"d	11'2"d	9'9"d	11'10"d	10'8"d	9'4"d	11'6"d	10'4"d	9'1"d	11'2"f	10'0"d	8'9"d	10'10"f	9'9"d	8'6"d
	15	8	11'3"f	9'0"d	7'10"d	9'10"f	8'10"d	7'6"d	9'4"f	8'10"d	7'6"d	8'11"f	8'10"d	7'6"d	8'7"f	8'7"f	7'6"d	8'3"f	8'3"f	7'6"d	8'0"f	8'0"f	7'6"d	7'9"f	7'9"f	7'3"d	7'6"f	7'6"f	7'0"d
		10	12'9"d	10'1"d	8'10"d	11'1"f	9'11"d	8'4"d	10'5"f	9'11"d	8'4"d	9'11"f	9'11"f	8'4"d	9'6"f	9'6"f	8'4"d	9'2"f	9'2"f	8'3"d	8'10"f	8'10"f	7'11"d	8'7"f	8'7"f	7'8"d	8'4"f	8'4"f	7'5"d
		12	15'1"d	12'0"d	10'5"d	12'11"f	11'9"d	9'11"d	12'0"f	11'8"d	9'11"d	11'4"f	11'0"d	9'7"d	10'10"f	10'6"d	9'1"d	10'5"f	10'1"d	8'9"d	10'0"f	9'8"d	8'5"d	9'8"f	9'5"d	8'2"d	9'4"f	9'1"d	7'11"d
400JS350-68, 50ksi	9	6	16'9"f	14'1"d	12'4"d	13'0"f	13'0"f	11'5"d	11'11"f	11'11"f	10'5"d	11'3"f	11'3"f	9'9"d	10'6"f	10'6"f	9'2"d	10'0"f	10'0"f	8'9"d	9'6"f	9'6"f	8'5"d	9'1"f	9'1"f	8'1"d	8'9"f	8'9"f	7'10"d
		8	22'6"f	19'5"d	16'11"d	15'8"f	13'9"d	11'10"d	14'0"f	12'7"d	10'10"d	12'10"f	11'10"d	10'2"d	12'0"f	11'2"d	9'8"d	11'3"f	10'8"d	9'3"d	10'8"f	10'3"d	8'11"d	10'3"f	9'11"d	8'7"d	9'10"f	9'8"d	8'4"d
	11	8	16'2"f	14'1"d	12'4"d	12'7"f	12'7"f	11'0"d	11'6"f	11'6"f	10'1"d	10'9"f	10'9"f	9'5"d	10'1"f	10'1"f	8'11"d	9'7"f	9'7"f	8'7"d	9'2"f	9'2"f	8'3"d	8'10"f	8'10"f	8'0"d	8'6"f	8'6"f	7'9"d
		10	21'1"f	18'10"d	16'7"d	14'10"f	13'3"d	11'6"d	13'4"f	12'3"d	10'7"d	12'4"f	11'6"d	10'0"d	11'6"f	10'11"d	9'7"d	10'11"f	10'6"d	9'2"d	10'5"f	10'1"d	8'10"d	10'0"f	9'10"d	8'7"d	9'8"f	9'7"d	8'4"d
	13	8	13'5"f	11'10"d	10'4"d	10'10"f	10'10"f	9'10"d	10'0"f	10'0"f	9'6"d	9'5"f	9'5"f	8'11"d	8'11"f	8'11"f	8'5"d	8'6"f	8'6"f	8'1"d	8'2"f	8'2"f	7'9"d	7'10"f	7'10"f	7'6"d	7'7"f	7'7"f	7'3"d
		10	16'0"f	14'1"d	12'4"d	12'3"f	12'3"f	10'10"d	11'3"f	11'3"f	10'0"d	10'6"f	10'6"f	9'5"d	10'0"f	10'0"f	8'11"d	9'6"f	9'6"f	8'7"d	9'1"f	9'1"f	8'3"d	8'9"f	8'9"f	8'0"d	8'6"f	8'6"f	7'9"d
		12	20'9"f	18'2"d	16'1"d	14'4"f	13'1"d	11'5"d	13'0"f	12'1"d	10'7"d	12'1"f	11'5"d	10'0"d	11'5"f	10'11"d	9'7"d	10'11"f	10'6"d	9'2"d	10'5"f	10'1"d	8'10"d	10'0"f	9'10"d	8'7"d	9'8"f	9'7"d	8'4"d
	15	8	11'8"f	10'7"d	9'3"d	9'7"f	9'7"f	8'10"d	9'0"f	9'0"f	8'10"d	8'6"f	8'6"f	8'5"d	8'1"f	8'1"f	8'0"d	7'8"f	7'8"f	7'8"f	7'5"f	7'5"f	7'4"d	7'2"f	7'2"f	7'1"d	6'11"f	6'11"f	6'11"f
		10	13'3"f	11'10"d	10'4"d	10'8"f	10'8"f	9'10"d	9'11"f	9'11"f	9'5"d	9'4"f	9'4"f	8'10"d	8'11"f	8'11"f	8'5"d	8'6"f	8'6"f	8'1"d	8'2"f	8'2"f	7'9"d	7'10"f	7'10"f	7'6"d	7'7"f	7'7"f	7'3"d
		12	15'8"f	14'1"d	12'4"d	12'2"f	12'2"f	10'9"d	11'3"f	11'3"f	10'0"d	10'6"f	10'6"f	9'5"d	10'0"f	10'0"f	8'11"d	9'6"f	9'6"f	8'7"d	9'1"f	9'1"f	8'3"d	8'9"f	8'9"f	8'0"d	8'6"f	8'6"f	7'9"d
400JS350-97, 50ksi	9	6	19'10"d	15'9"d	13'9"d	15'11"f	14'9"d	12'5"d	14'7"f	13'5"d	11'7"d	13'6"f	12'5"d	10'9"d	12'8"f	11'11"d	10'2"d	11'11"f	11'5"d	9'8"d	11'8"f	10'11"d	9'4"d	11'2"f	10'6"d	9'0"d	10'8"f	10'2"d	8'8"d
		8	27'3"d	21'8"d	18'11"d	16'11"d	15'3"d	13'0"d	15'10"d	13'11"d	11'11"d	14'9"d	13'0"d	11'2"d	13'11"d	12'4"d	10'7"d	13'4"d	11'9"d	10'1"d	12'9"d	11'4"d	9'9"d	12'4"f	10'11"d	9'5"d	11'10"f	10'7"d	9'2"d
	11	8	19'6"f	15'9"d	13'9"d	15'3"f	14'3"d	12'2"d	14'0"f	13'0"d	11'1"d	13'0"f	12'2"d	10'5"d	12'3"f	11'6"d	9'10"d	11'7"f	10'11"d	9'5"d	11'1"f	10'6"d	9'1"d	10'7"f	10'2"d	8'9"d	10'3"f	9'10"d	8'6"d
		10	25'6"d	20'3"d	18'4"d	16'6"d	14'8"d	12'7"d	15'2"d	13'5"d	11'7"d	14'2"d	12'7"d	10'11"d	13'5"d	12'0"d	10'5"d	12'10"d	11'6"d	10'0"d	12'4"d	11'1"d	9'8"d	11'10"f	10'8"d	9'4"d	11'5"f	10'5"d	9'1"d
	13	8	16'0"f	13'3"d	11'7"d	13'1"f	13'1"f	11'0"d	12'1"f	12'1"f	10'6"d	11'4"f	11'4"f	9'10"d	10'9"f	10'9"f	9'3"d	10'3"f	10'3"f	8'10"d	9'10"f	9'10"f	8'6"d	9'5"f	9'5"f	8'3"d	9'1"f	9'1"f	8'0"d
		10	19'2"f	15'9"d	13'9"d	14'9"f	13'9"d	11'10"d	13'6"f	12'8"d	10'11"d	12'7"f	11'10"d	10'3"d	11'11"f	11'3"d	9'9"d	11'4"f	10'9"d	9'4"d	10'10"f	10'5"d	9'0"d	10'5"f	10'1"d	8'9"d	10'1"f	9'9"d	8'6"d
		12	24'2"d	20'0"d	17'9"d	16'1"d	14'4"d	12'5"d	14'9"d	13'3"d	11'7"d	13'11"d	12'5"d	10'11"d	13'3"d	11'10"d	10'5"d	12'8"d	11'5"d	10'0"d	12'2"f	11'0"d	9'8"d	11'9"f	10'8"d	9'4"d	11'4"f	10'5"d	9'1"d
	15	8	13'11"f	11'10"d	10'4"d	11'7"f	11'7"f	9'10"d	10'10"f	10'10"f	9'10"d	10'2"f	10'2"f	9'4"d	9'8"f	9'8"f	8'10"d	9'3"f	9'3"f	8'5"d	8'11"f	8'11"f	8'1"d	8'7"f	8'7"f	7'10"d	8'3"f	8'3"f	7'7"d
		10	15'10"f	13'3"d	11'7"d	12'10"f	12'10"f	11'0"d	11'10"f	11'10"f	10'4"d	11'2"f	11'2"f	9'9"d	10'7"f	10'7"f	9'3"d	10'1"f	10'1"f	8'10"d	9'9"f	9'9"f	8'6"d	9'4"f	9'4"f	8'3"d	9'1"f	9'1"f	8'0"d
		12	18'10"f	15'9"d	13'9"d	14'5"f	13'7"d	11'9"d	13'4"f	12'6"d	10'11"d	12'5"f	11'9"d	10'3"d	11'9"f	11'3"d	9'9"d	11'3"f	10'9"d	9'4"d	10'10"f	10'5"d	9'0"d	10'5"f	10'1"d	8'9"d	10'1"f	9'9"d	8'6"d
400JS350-118, 50ksi	9	6	21'1"d	16'9"d	14'7"d	17'10"f	15'8"d	13'2"d	16'3"d	14'3"d	12'0"d	15'1"d	13'2"d	11'5"d	14'3"d	12'5"d	10'9"d	13'6"d	11'11"d	10'3"d	12'11"f	11'7"d	9'10"d	12'4"f	11'2"d	9'6"d	11'11"f	10'9"d	9'2"d
		8	28'11"d	23'0"d	20'1"d	17'11"d	15'11"d	13'9"d	16'3"d	14'9"d	12'7"d	15'7"d	13'9"d	11'9"d	14'9"d	13'0"d	11'2"d	14'1"d	12'5"d	10'8"d	13'6"d	11'11"d	10'3"d	13'0"d	11'6"d	9'11"d	12'7"d	11'2"d	9'7"d
	11	8	21'1"d	16'9"d	14'7"d	16'9"d	15'1"d	12'10"d	15'8"d	13'9"d	11'9"d	14'7"d	12'10"d	11'0"d	13'9"f	12'1"d	10'5"d	13'1"f	11'7"d	9'11"d	12'5"f	11'1"d	9'6"d	11'11"f	10'9"d	9'3"d	11'6"f	10'5"d	8'11"d
		10	27'1"d	21'6"d	19'5"d	17'6"d	15'5"d	13'3"d	16'0"d	14'2"d	12'3"d	14'11"d	13'3"d	11'6"d	14'2"d	12'7"d	10'11"d	13'6"d	12'1"d	10'6"d	13'0"d	11'7"d	10'1"d	12'7"d	11'3"d	9'10"d	12'3"d	10'11"d	9'6"d
	13	8	17'9"f	14'1"d	12'4"d	14'7"f	13'10"d	11'8"d	13'7"f	13'0"d	11'1"d	12'9"f	12'1"d	10'4"d	12'1"f	11'5"d	9'9"d	11'6"f	10'11"d	9'4"d	11'0"f	10'6"d	9'0"d	10'7"f	10'1"d	8'8"d	10'2"f	9'9"d	8'5"d
		10	21'1"d	16'9"d	14'7"d	16'6"f	14'7"d	12'6"d	15'1"d	13'4"d	11'6"d	14'1"f	12'6"d	10'9"d	13'3"f	11'10"d	10'3"d	12'7"f	11'4"d	9'10"d	12'1"f	10'11"d	9'6"d	11'7"f	10'7"d	9'2"d	11'2"f	10'3"d	8'11"d
		12	25'7"d	21'2"d	18'8"d	16'11"d	15'0"d	13'1"d	15'7"d	13'10"d	12'1"d	14'7"d	13'1"d	11'5"d	13'10"d	12'5"d	10'11"d	13'4"d	11'11"d	10'5"d	12'10"d	11'6"d	10'1"d	12'5"d	11'2"d	9'10"d	12'1"d	10'11"d	9'7"d
	15	8	15'5"f	12'7"d	11'0"d	12'11"f	12'5"d	10'5"d	12'1"f	12'1"f	10'5"d	11'5"f	11'5"f	9'10"d	10'10"f	10'10"f	9'4"d	10'4"f	10'4"f	8'10"d	9'11"f	9'11"f	8'6"d	9'7"f	9'7"f	8'3"d	9'3"f	9'3"f	8'0"d
		10	17'7"f	14'1"d	12'4"d	14'3"f	13'10"d	11'8"d	13'3"f	12'8"d	10'11"d	12'5"f	11'10"d	10'3"d	11'10"f	11'3"d	9'9"d	11'3"f	10'9"d	9'4"d	10'10"f	10'4"d	8'11"d	10'5"f	10'0"d	8'8"d	10'1"f	9'9"d	8'5"d
			20'11"f	16'9"d	14'7"d	16'1"f	14'3"d	12'4"d	14'9"d	13'2"d	11'5"d	13'10"f	12'4"d	10'9"d	13'1"f	11'9"d	10'3"d	12'5"f	11'4"d	9'10"d	11'11"f	10'11"d	9'6"d	11'6"f	10'7"d	9'2"d	11'2"f	10'3"d	8'11"d
600JS250-33, 50ksi	9	6	8'4"f	8'4"f	7'10"d	7'5"f	7'5"f	7'5"f	7'1"f	7'1"f	7'1"f	6'10"f	6'10"f	6'10"f	6'7"f	6'7"f	6'7"f	6'5"f	6'5"f	6'5"f	6'2"f	6'2"f	6'2"f	6'0"f	6'0"f	6'0"f	5'11"f	5'11"f	5'11"f
		8	12'10"f	12'10"f	11'4"d	10'4"f	10'4"f	10'4"f	9'7"f	9'7"f	9'7"f	9'0"f	9'0"f	9'0"f	8'7"f	8'7"f	8'7"f	8'3"f	8'3"f	8'3"f	7'11"f	7'11"f	7'11"f	7'8"f	7'8"f	7'8"f	7'5"f	7'5"f	7'5"f
	11	8	8'3"f	8'3"f	7'10"d	7'5"f	7'5"f	7'5"f	7'1"f	7'1"f	7'1"f	6'10"f	6'10"f	6'10"f	6'7"f	6'7"f	6'7"f	6'5"f	6'5"f	6'5"f	6'2"f	6'2"f	6'2"f	6'0"f	6'0"f	6'0"f	5'11"f	5'11"f	5'11"f
		10	12'8"f	12'8"f	11'4"d	10'2"f	10'2"f	10'2"f	9'6"f	9'6"f	9'6"f	9'0"f	9'0"f	9'0"f	8'7"f	8'7"f	8'7"f	8'3"f	8'3"f	8'3"f	7'11"f	7'11"f	7'11"f	7'8"f	7'8"f	7'8"f	7'5"f	7'5"f	7'5"f
	13	8	6'7"f	6'7"f	6'7"f	6'0"f	6'0"f	6'0"f	5'10"f	5'10"f	5'10"f	5'8"f	5'8"f	5'8"f	5'6"f	5'6"f	5'6"f	5'4"f	5'4"f	5'4"f	5'2"f	5'2"f	5'2"f	5'1"f	5'1"f	5'1"f	4'11"f	4'11"f	4'11"f
		10	8'3"f	8'3"f	7'10"d	7'5"f	7'5"f	7'5"f	7'1"f	7'1"f	7'1"f	6'10"f	6'10"f	6'10"f	6'7"f	6'7"f	6'7"f	6'5"f	6'5"f	6'5"f	6'2"f	6'2"f	6'2"f	6'0"f	6'0"f	6'0"f	5'11"f	5'11"f	5'11"f
		12	12'6"f	12'6"f	11'4"d	10'2"f	10'2"f	10'2"f	9'6"f	9'6"f	9'6"f	9'0"f	9'0"f	9'0"f	8'7"f	8'7"f	8'7"f	8'3"f	8'3"f	8'3"f	7'11"f	7'11"f	7'11"f	7'8"f	7'8"f	7'8"f	7'5"f	7'5"f	7'5"f
	15	8	5'7"f	5'7"f	5'7"f	5'2"f	5'2"f	5'2"f	5'0"f	5'0"f	5'0"f	4'11"f	4'11"f	4'11"f	4'9"f	4'9"f	4'9"f	4'8"f	4'8"f	4'8"f	4'6"f	4'6"f	4'6"f	4'5"f	4'5"f	4'5"f	4'4"f	4'4"f	4'4"f
		10	6'7"f	6'7"f	6'7"f	6'0"f	6'0"f	6'0"f	5'10"f	5'10"f	5'10"f	5'8"f	5'8"f	5'8"f	5'6"f	5'6"f	5'6"f	5'4"f	5'4"f	5'4"f	5'2"f	5'2"f	5'2"f	5'1"f	5'1"f	5'1"f	5'0"f	5'0"f	5'0"f
		12	8'3"f	8'3"f	7'10"d	7'5"f	7'5"f	7'5"f	7'1"f	7'1"f	7'1"f	6'10"f	6'10"f	6'10"f	6'7"f	6'7"f	6'7"f	6'5"f	6'5"f	6'5"f	6'2"f	6'2"f	6'2"f	6'0"f	6'0"f	6'0"f	6'0"f	6'0"f	6'0"f

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Header Spans

Refer to Important Table Notes on Page 35

JamStud Member	Wall Ht. (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																										
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
600JS250-43, 50ksi	9	6	10'2"f	9'9"d	8'6"d	9'0"f	9'0"f	8'1"d	8'7"f	8'7"f	8'1"d	8'3"f	8'3"f	8'1"d	7'11"f	7'11"f	7'11"f	7'8"f	7'8"f	7'8"f	7'5"f	7'5"f	7'5"f	7'2"f	7'2"f	7'2"f	7'0"f	7'0"f	7'0"f
		8	15'7"f	14'1"d	12'4"d	12'4"f	12'4"f	11'8"d	11'5"f	11'5"f	11'5"f	10'8"f	10'8"f	10'8"f	10'1"f	10'1"f	10'1"f	9'7"f	9'7"f	9'7"f	9'3"f	9'3"f	9'3"f	8'11"f	8'11"f	8'11"f	8'7"f	8'7"f	8'7"f
	11	8	10'1"f	9'9"d	8'6"d	8'11"f	8'11"f	8'1"d	8'6"f	8'6"f	8'1"d	8'1"f	8'1"f	8'1"f	7'10"f	7'10"f	7'10"f	7'7"f	7'7"f	7'7"f	7'4"f	7'4"f	7'4"f	7'2"f	7'2"f	7'2"f	6'11"f	6'11"f	6'11"f
		10	15'3"f	14'1"d	12'4"d	12'0"f	12'0"f	11'8"d	11'1"f	11'1"f	11'1"f	10'5"f	10'5"f	10'5"f	9'11"f	9'11"f	9'11"f	9'6"f	9'6"f	9'6"f	9'2"f	9'2"f	9'2"f	8'10"f	8'10"f	8'10"f	8'7"f	8'7"f	8'7"f
	13	8	8'0"f	8'0"f	7'2"d	7'4"f	7'4"f	6'10"d	7'0"f	7'0"f	6'10"d	6'9"f	6'9"f	6'9"f	6'7"f	6'7"f	6'7"f	6'5"f	6'5"f	6'5"f	6'3"f	6'3"f	6'3"f	6'1"f	6'1"f	6'1"f	5'11"f	5'11"f	5'11"f
		10	10'0"f	9'9"d	8'6"d	8'11"f	8'11"f	8'1"d	8'6"f	8'6"f	8'1"d	8'1"f	8'1"f	8'1"f	7'10"f	7'10"f	7'10"f	7'7"f	7'7"f	7'7"f	7'4"f	7'4"f	7'4"f	7'2"f	7'2"f	7'2"f	6'11"f	6'11"f	6'11"f
		12	15'0"f	14'1"d	12'4"d	11'11"f	11'11"f	11'8"d	11'1"f	11'1"f	11'1"f	10'5"f	10'5"f	10'5"f	9'11"f	9'11"f	9'11"f	9'6"f	9'6"f	9'6"f	9'2"f	9'2"f	9'2"f	8'10"f	8'10"f	8'10"f	8'7"f	8'7"f	8'7"f
	15	8	6'10"f	6'10"f	6'5"d	6'4"f	6'4"f	6'1"d	6'1"f	6'1"f	6'1"f	5'11"f	5'11"f	5'11"f	5'9"f	5'9"f	5'9"f	5'7"f	5'7"f	5'7"f	5'6"f	5'6"f	5'6"f	5'4"f	5'4"f	5'4"f	5'3"f	5'3"f	5'3"f
		10	8'0"f	8'0"f	7'2"d	7'4"f	7'4"f	6'10"d	7'0"f	7'0"f	6'10"d	6'9"f	6'9"f	6'9"f	6'7"f	6'7"f	6'7"f	6'5"f	6'5"f	6'5"f	6'3"f	6'3"f	6'3"f	6'1"f	6'1"f	6'1"f	5'11"f	5'11"f	5'11"f
		12	10'0"f	9'9"d	8'6"d	8'11"f	8'11"f	8'1"d	8'6"f	8'6"f	8'1"d	8'1"f	8'1"f	8'1"f	7'10"f	7'10"f	7'10"f	7'7"f	7'7"f	7'7"f	7'4"f	7'4"f	7'4"f	7'2"f	7'2"f	7'2"f	6'11"f	6'11"f	6'11"f
600JS250-54, 50ksi	9	6	12'0"f	10'6"d	9'2"d	10'8"f	10'4"d	8'9"d	10'1"f	10'1"f	8'9"d	9'8"f	9'8"f	8'9"d	9'3"f	9'3"f	8'9"d	8'11"f	8'11"f	8'9"d	8'7"f	8'7"f	8'7"f	8'4"f	8'4"f	8'4"f	8'1"f	8'1"f	8'1"f
		8	18'3"f	15'2"d	13'3"d	14'5"f	14'5"f	12'7"d	13'3"f	13'3"f	12'6"d	12'4"f	12'4"f	11'8"d	11'8"f	11'8"f	11'1"d	11'1"f	11'1"f	10'7"d	10'7"f	10'7"f	10'2"d	10'2"f	10'2"f	9'10"d	9'10"f	9'10"f	9'6"d
	11	8	11'11"f	10'6"d	9'2"d	10'5"f	10'4"d	8'9"d	9'11"f	9'11"f	8'9"d	9'5"f	9'5"f	8'9"d	9'1"f	9'1"f	8'9"d	8'9"f	8'9"f	8'9"f	8'5"f	8'5"f	8'5"f	8'2"f	8'2"f	8'2"f	8'0"f	8'0"f	8'0"f
		10	17'11"f	15'2"d	13'3"d	13'10"f	13'10"f	12'7"d	12'9"f	12'9"f	12'1"d	11'11"f	11'11"f	11'5"d	11'3"f	11'3"f	10'10"d	10'9"f	10'9"f	10'5"d	10'4"f	10'4"f	10'0"d	10'0"f	10'0"f	9'9"d	9'8"f	9'8"f	9'6"d
	13	8	9'6"f	8'10"d	7'9"d	8'7"f	8'7"f	7'4"d	8'3"f	8'3"f	7'4"d	7'11"f	7'11"f	7'4"d	7'8"f	7'8"f	7'4"d	7'5"f	7'5"f	7'4"d	7'3"f	7'3"f	7'3"f	7'1"f	7'1"f	7'1"f	6'10"f	6'10"f	6'10"f
		10	11'10"f	10'6"d	9'2"d	10'4"f	10'4"f	8'9"d	9'10"f	9'10"f	8'9"d	9'5"f	9'5"f	8'9"d	9'0"f	9'0"f	8'9"d	8'9"f	8'9"f	8'9"f	8'5"f	8'5"f	8'5"f	8'2"f	8'2"f	8'2"f	8'0"f	8'0"f	8'0"f
		12	17'6"f	15'2"d	13'3"d	13'7"f	13'7"f	12'7"d	12'7"f	12'7"f	12'0"d	11'10"f	11'10"f	11'4"d	11'3"f	11'3"f	10'10"d	10'9"f	10'9"f	10'5"d	10'4"f	10'4"f	10'0"d	10'0"f	10'0"f	9'9"d	9'8"f	9'8"f	9'6"d
	15	8	8'1"f	7'11"d	6'11"d	7'5"f	7'5"f	6'7"d	7'2"f	7'2"f	6'7"d	6'11"f	6'11"f	6'7"d	6'9"f	6'9"f	6'7"d	6'7"f	6'7"f	6'7"d	6'5"f	6'5"f	6'5"f	6'3"f	6'3"f	6'3"f	6'1"f	6'1"f	6'1"f
		10	9'5"f	8'10"d	7'9"d	8'7"f	8'7"f	7'4"d	8'3"f	8'3"f	7'4"d	7'11"f	7'11"f	7'4"d	7'8"f	7'8"f	7'4"d	7'5"f	7'5"f	7'4"d	7'3"f	7'3"f	7'3"f	7'1"f	7'1"f	7'1"f	6'10"f	6'10"f	6'10"f
		12	11'10"f	10'6"d	9'2"d	10'4"f	10'4"f	8'9"d	9'10"f	9'10"f	8'9"d	9'5"f	9'5"f	8'9"d	9'0"f	9'0"f	8'9"d	8'9"f	8'9"f	8'9"f	8'5"f	8'5"f	8'5"f	8'2"f	8'2"f	8'2"f	8'0"f	8'0"f	8'0"f
600JS250-68, 50ksi	9	6	14'3"f	11'4"d	9'10"d	12'5"f	11'1"d	9'4"d	11'11"f	11'1"d	9'4"d	11'4"f	11'1"d	9'4"d	10'10"f	10'10"f	9'4"d	10'5"f	10'5"f	9'4"d	10'1"f	10'1"f	9'4"d	9'9"f	9'9"f	9'4"d	9'5"f	9'5"f	9'4"d
		8	20'7"d	16'4"d	14'3"d	16'6"f	16'1"d	13'6"d	15'5"f	15'5"f	13'4"d	14'4"f	14'4"f	12'6"d	13'6"f	13'6"f	11'10"d	12'9"f	12'9"f	11'3"d	12'2"f	12'2"f	10'10"d	11'8"f	11'8"f	10'6"d	11'3"f	11'3"f	10'2"d
	11	8	14'1"f	11'4"d	9'10"d	12'3"f	11'1"d	9'4"d	11'7"f	11'1"d	9'4"d	11'0"f	11'0"f	9'4"d	10'6"f	10'6"f	9'4"d	10'1"f	10'1"f	9'4"d	9'9"f	9'9"f	9'4"d	9'5"f	9'5"f	9'4"d	9'2"f	9'2"f	9'2"f
		10	20'7"d	16'4"d	14'3"d	16'1"f	16'1"f	13'6"d	14'9"f	14'9"f	12'11"d	13'8"f	13'8"f	12'1"d	12'11"f	12'11"f	11'6"d	12'3"f	12'3"f	11'0"d	11'9"f	11'9"f	10'8"d	11'3"f	11'3"f	10'4"d	10'11"f	10'11"f	10'0"d
	13	8	11'2"f	9'6"d	8'4"d	10'1"f	9'4"d	7'11"d	9'7"f	9'4"d	7'11"d	9'3"f	9'3"f	7'11"d	8'11"f	8'11"f	7'11"d	8'8"f	8'8"f	7'11"d	8'5"f	8'5"f	7'11"d	8'2"f	8'2"f	7'11"d	7'11"f	7'11"f	7'11"f
		10	13'11"f	11'4"d	9'10"d	12'0"f	11'1"d	9'4"d	11'4"f	11'1"d	9'4"d	10'10"f	10'10"f	9'4"d	10'5"f	10'5"f	9'4"d	10'0"f	10'0"f	9'4"d	9'8"f	9'8"f	9'4"d	9'5"f	9'5"f	9'4"d	9'2"f	9'2"f	9'2"f
		12	20'6"f	16'4"d	14'3"d	15'7"f	15'7"f	13'6"d	14'4"f	14'4"f	12'9"d	13'5"f	13'5"f	12'0"d	12'8"f	12'8"f	11'5"d	12'1"f	12'1"f	11'0"d	11'8"f	11'8"f	10'7"d	11'3"f	11'3"f	10'3"d	10'10"f	10'10"f	10'0"d
	15	8	9'7"f	8'6"d	7'5"d	8'9"f	8'4"d	7'1"d	8'5"f	8'4"d	7'1"d	8'2"f	8'2"f	7'1"d	7'11"f	7'11"f	7'1"d	7'8"f	7'8"f	7'1"d	7'5"f	7'5"f	7'1"d	7'3"f	7'3"f	7'1"d	7'1"f	7'1"f	7'1"f
		10	11'2"f	9'6"d	8'4"d	10'0"f	9'4"d	7'11"d	9'7"f	9'4"d	7'11"d	9'3"f	9'3"f	7'11"d	8'11"f	8'11"f	7'11"d	8'7"f	8'7"f	7'11"d	8'5"f	8'5"f	7'11"d	8'2"f	8'2"f	7'11"d	7'11"f	7'11"f	7'11"f
		12	13'10"f	11'4"d	9'10"d	11'11"f	11'1"d	9'4"d	11'4"f	11'1"d	9'4"d	10'10"f	10'10"f	9'4"d	10'5"f	10'5"f	9'4"d	10'0"f	10'0"f	9'4"d	9'8"f	9'8"f	9'4"d	9'5"f	9'5"f	9'4"d	9'2"f	9'2"f	9'2"f
600JS250-97, 50ksi	9	6	15'11"d	12'7"d	11'0"d	14'2"d	12'5"d	10'5"d	14'2"d	12'5"d	10'5"d	14'0"f	12'5"d	10'5"d	13'5"f	12'5"d	10'5"d	12'10"f	12'5"d	10'5"d	12'4"f	12'4"f	10'5"d	11'11"f	11'11"f	10'5"d	11'9"f	11'9"f	10'5"d
		8	22'11"d	18'2"d	15'11"d	20'6"d	17'11"d	15'1"d	18'10"f	16'11"d	14'9"d	17'5"f	15'11"d	13'10"d	16'3"f	15'3"d	13'1"d	15'9"f	14'7"d	12'5"d	15'0"f	14'0"d	11'11"d	14'4"f	13'6"d	11'7"d	13'10"f	13'1"d	11'2"d
	11	8	15'11"d	12'7"d	11'0"d	14'2"d	12'5"d	10'5"d	14'2"d	12'5"d	10'5"d	13'7"f	12'5"d	10'5"d	13'0"f	12'5"d	10'5"d	12'6"f	12'5"d	10'5"d	12'0"f	12'0"f	10'5"d	11'7"f	11'7"f	10'5"d	11'3"f	11'3"f	10'5"d
		10	22'11"d	18'2"d	15'11"d	19'11"f	17'11"d	15'1"d	18'2"f	16'7"d	14'2"d	16'10"f	15'6"d	13'4"d	15'9"f	14'8"d	12'7"d	14'11"f	14'0"d	12'1"d	14'3"f	13'6"d	11'8"d	13'8"f	13'0"d	11'3"d	13'2"f	12'7"d	10'11"d
	13	8	13'5"d	10'7"d	9'3"d	12'0"d	10'5"d	8'10"d	11'11"f	10'5"d	8'10"d	11'5"f	10'5"d	8'10"d	11'0"f	10'5"d	8'10"d	10'8"f	10'5"d	8'10"d	10'4"f	10'4"f	8'10"d	10'0"f	10'0"f	8'10"d	9'9"f	9'9"f	8'10"d
		10	15'11"d	12'7"d	11'0"d	14'2"d	12'5"d	10'5"d	14'0"f	12'5"d	10'5"d	13'3"f	12'5"d	10'5"d	12'8"f	12'5"d	10'5"d	12'2"f	12'2"f	10'5"d	11'9"f	11'9"f	10'5"d	11'4"f	11'4"f	10'5"d	11'0"f	11'0"f	10'3"d
		12	22'11"d	18'2"d	15'11"d	19'2"f	17'6"d	15'1"d	17'5"f	16'1"d	13'11"d	16'3"f	15'1"d	13'1"d	15'3"f	14'4"d	12'6"d	14'6"f	13'9"d	12'0"d	13'10"f	13'3"d	11'7"d	13'4"f	12'10"d	11'3"d	12'11"f	12'6"d	10'11"d
	15	8	11'11"f	9'6"d	8'3"d	10'8"d	9'4"d	7'10"d	10'5"f	9'4"d	7'10"d	10'1"f	9'4"d	7'10"d	9'9"f	9'4"d	7'10"d	9'5"f	9'4"d	7'10"d	9'2"f	9'2"f	7'10"d	8'11"f	8'11"f	7'10"d	8'9"f	8'9"f	7'10"d
		10	13'5"d	10'7"d	9'3"d	12'0"d	10'5"d	8'10"d	11'10"f	10'5"d	8'10"d	11'4"f	10'5"d	8'10"d	10'11"f	10'5"d	8'10"d	10'6"f	10'5"d	8'10"d	10'3"f	10'3"f	8'10"d	9'11"f	9'11"f	8'10"d	9'8"f	9'8"f	8'10"d
		12	15'11"d	12'7"d	11'0"d	14'2"d	12'5"d	10'5"d	13'9"f	12'5"d	10'5"d	13'1"f	12'5"d	10'5"d	12'7"f	12'5"d	10'5"d	12'1"f	12'1"f	10'5"d	11'8"f	11'8"f	10'5"d	11'4"f	11'4"f	10'5"d	11'0"f	11'0"f	10'3"d
600JS250-118, 50ksi	9	6	16'10"d	13'4"d	11'8"d	15'1"d	13'2"d	11'1"d	15'1"d	13'2"d	11'1"d	15'1"d	13'2"d	11'1"d	14'8"f	13'2"d	11'1"d	14'1"f	13'2"d	11'1"d	13'6"f	13'2"d	11'1"d	13'1"f	13'1"f	11'1"d	12'8"f	12'8"f	11'1"d
		8	24'4"d	19'4"d	16'10"d	21'9"d	19'0"d	16'0"d	20'7"f	18'0"d	15'8"d	19'1"f	16'8"d	14'7"d	17'10"f	15'11"d	13'10"d	16'9"f	15'5"d	13'2"d	15'11"f	14'9"d	12'8"d	15'8"f	14'3"d	12'2"d	15'0"f	13'10"d	11'10"d
	11	8	16'10"d	13'4"d	11'8"d	15'1"d	13'2"d	11'1"d	15'1"d	13'2"d	11'1"d	14'10"f	13'2"d	11'1"d	14'2"f	13'2"d	11'1"d	13'7"f	13'2"d	11'1"d	13'1"f	13'1"f	11'1"d	12'8"f	12'8"f	11'1"d	12'3"f	12'3"f	11'0"d
		10	24'4"d	19'4"d	16'10"d	21'2"d	19'0"d	16'0"d	19'9"f	17'6"d	15'0"d	18'4"f	16'4"d	14'0"d	17'2"f	15'6"d	13'4"d	16'3"f	14'9"d	12'9"d	15'6"f	14'2"d	12'3"d	14'10"f	13'9"d	11'10"d	14'3"f	13'4"d	11'6"d
	13	8	14'3"d	11'3"d	9'10"d	12'8"d	11'1"d	9'4"d	12'8"d	11'1"d	9'4"d	12'6"f	11'1"d	9'4"d	12'0"f	11'1"d	9'4"d	11'7"f	11'1"d	9'4"d	11'3"f	11'1"d	9'4"d	10'11"f	10'11"f	9'4"d	10'7"f	10'7"f	9'4"d
		10	16'10"d	13'4"d	11'8"d	15'1"d	13'2"d	11'1"d	15'1"d	13'2"d	11'1"d	14'5"f	13'2"d	11'1"d	13'9"f	13'2"d	11'1"d	13'3"f	13'2"d	11'1"d	12'9"f	12'9"f	11'1"d	12'4"f	12'4"f	11'1"d	11'11"f	11'11"f	10'10"d
		12	24'4"d	19'4"d	16'10"d	20'10"f	18'6"d	15'11"d	18'11"f	17'0"d	14'8"d	17'7"f	15'11"d	13'9"d	16'6"f	15'1"d	13'1"d	15'8"f	14'5"d	12'7"d	14'11"f	13'11"d	12'1"d	14'4"f	13'6"d	11'9"d	13'10"f	13'1"d	11'5"d
	15	8	12'8"d	10'1"d	8'10"d	11'4"d	9'11"d	8'4"d	11'4"d	9'11"d	8'4"d	11'0"f	9'11"d	8'4"d	10'7"f	9'11"d	8'4"d	10'4"f	9'11"d	8'4"d	10'0"f	9'11"d	8'4"d	9'9"f	9'9"f	8'4"d	9'6"f	9'6"f	8'4"d
		10	14'3"d	11'3"d	9'10"d	12'8"d	11'1"d	9'4"d	12'8"d	11'1"d	9'4"d	12'4"f	11'1"d	9'4"d	11'10"f	11'1"d	9'4"d	11'5"f	11'1"d	9'4"d	11'1"f	11'1"f	9'4"d	10'9"f	10'9"f	9'4"d	10'6"f	10'6"f	9'4"d
		12	16'10"d	13'4"d	11'8"d	15'1"d	13'2"d	11'1"d	15'0"f	13'2"d	11'1"d	14'2"f	13'2"d	11'1"d	13'7"f	13'2"d	11'1"d	13'0"f	13'0"f	11'1"d	12'7"f	12'7"f	11'1"d	12'2"f	12'2"f	11'1"d	11'10"f	11'10"f	10'10"d
600JS350-68, 50ksi	9	6	17'9"f	14'10"d	12'11"d	14'9"f	14'7"d	12'3"d	13'9"f	13'9"f	12'3"d	12'11"f	12'11"f	12'3"d	12'2"f	12'2"f	12'0"d	11'10"f	11'10"f	11'8"d	11'4"f	11'4"f	11'2"d	10'11"f	10'11"f	10'9"d	10'6"f	10'6"f	10'5"d
		8	25'7"f	21'5"d	18'8"d	18'5"f	18'0"d	15'8"d	16'6"f	16'4"d	14'3"d	15'8"f	15'8"f	13'4"d	14'7"f	14'7"f	12'7"d	13'9"f	13'9"f	12'0"d	13'1"f	13'1"f	11'7"d	12'6"f	12'6"f	11'2"d	12'0"f	12'0"f	10'10"d
	11	8	17'4"f	14'10"d	12'11"d	14'4"f	14'4"f	12'3"d	13'4"f	13'4"f	12'3"d	12'6"f	12'6"f	12'3"d	11'10"f	11'10"f	11'9"d	11'4"f	11'4"f	11'3"d	10'10"f	10'10"f	10'9"d	10'5"f	10'5"f	10'5"f	10'1"f	10'1"f	10'1"f
		10	24'4"f	21'5"d	18'8"d	17'9"f	17'6"d	15'0"d	16'1"f	16'0"d	13'9"d	14'10"f	14'10"f	12'11"d	13'10"f	13'10"f	12'3"d	13'1"f	13'1"f	11'9"d	12'6"f	12'6"f	11'3"d	11'11"f	11'11"f	10'11"d	11'6"f	11'6"f	10'7"d
	13	8	14'0"f	12'6"d	10'11"d	12'0"f	12'0"f	10'4"d	11'4"f	11'4"f	10'4"d	10'9"f	10'9"f	10'4"d	10'3"f	10'3"f	10'3"f	9'10"f	9'10"f	9'10"f	9'6"f	9'6"f	9'6"f	9'2"f	9'2"f	9'2"f	8'10"f	8'10"f	8'10"f
		10	17'2"f	14'10"d	12'11"d	13'11"f	13'11"f	12'3"d	13'0"f	13'0"f	12'3"d	12'2"f	12'2"f	12'2"f	11'7"f	11'7"f	11'6"d	11'1"f	11'1"f	11'0"d	10'8"f	10'8"f	10'7"d	10'3"f	10'3"f	10'3"f	9'11"f	9'11"f	9'11"f
		12	23'10"f	21'5"d	18'8"d	17'1"f	16'11"d	14'7"d	15'6"f	15'6"f	13'6"d	14'4"f	14'4"f	12'8"d	13'6"f	13'6"f	12'1"d	12'10"f	12'10"f	11'8"d	12'3"f	12'3"f	11'3"d	11'10"f	11'10"f	10'11"d	11'5"f	11'5"f	10'7"d
	15	8	12'1"f	11'2"d	9'9"d	10'7"f	10'7"f	9'3"d	10'0"f	10'0"f	9'3"d	9'7"f	9'7"f	9'3"d	9'2"f	9'2"f	9'2"f	8'10"f	8'10"f	8'10"f	8'6"f	8'6"f	8'6"f	8'3"f	8'3"f	8'3"f	8'0"f	8'0"f	8'0"f
		10	13'11"f	12'6"d	10'11"d	11'10"f	11'10"f	10'4"d	11'2"f	11'2"f	10'4"d	10'7"f	10'7"f	10'4"d	10'2"f	10'2"f	10'2"f	9'9"f	9'9"f	9'9"f	9'5"f	9'5"f	9'5"f	9'1"f	9'1"f	9'1"f	8'10"f	8'10"f	8'10"f
		12	16'11"f	14'10"d	12'11"d	13'9"f	13'9"f	12'3"d	12'10"f	12'10"f	12'3"d	12'1"f	12'1"f	12'0"d	11'6"f	11'6"f	11'6"f	11'0"f	11'0"f	11'0"f	10'7"f	10'7"f	10'7"f	10'3"f	10'3"f	10'3"f	9'11"f	9'11"f	9'11"f

Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Header Spans

Refer to Important Table Notes on Page 35

JamStud Member	Wall Ht. (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																									
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
600JS350-97, 50ksi	9	6	20' 10" d	16' 7" d	14' 6" d	18' 5" f	16' 3" d	13' 9" d	17' 2" f	16' 3" d	13' 9" d	16' 2" f	16' 2" f	13' 9" d	15' 3" f	15' 3" f	13' 5" d	14' 6" f	14' 6" f	12' 9" d	13' 11" f	13' 11" f	12' 2" d	13' 4" f	13' 4" f	11' 11" d	12' 10" f	12' 10" f	11' 7" d
		8	30' 1" d	23' 11" d	20' 10" d	23' 0" d	20' 1" d	16' 11" d	20' 9" f	18' 3" d	15' 10" d	19' 0" f	16' 11" d	14' 9" d	17' 8" f	15' 11" d	14' 0" d	16' 6" f	15' 7" d	13' 4" d	15' 11" f	15' 0" d	12' 10" d	15' 4" f	14' 5" d	12' 4" d	14' 9" f	14' 0" d	12' 0" d
	11	8	20' 10" d	16' 7" d	14' 6" d	17' 7" f	16' 3" d	13' 9" d	16' 3" f	16' 3" f	13' 9" d	15' 6" f	15' 6" f	13' 9" d	14' 8" f	14' 8" f	13' 0" d	14' 0" f	14' 0" f	12' 5" d	13' 4" f	13' 4" f	11' 11" d	12' 10" f	12' 10" f	11' 6" d	12' 5" f	12' 5" f	11' 2" d
		10	30' 1" d	23' 11" d	20' 10" d	21' 6" f	19' 5" d	16' 7" d	19' 10" f	17' 9" d	15' 2" d	18' 2" f	16' 7" d	14' 3" d	17' 0" f	15' 8" d	13' 6" d	16' 0" f	15' 0" d	12' 11" d	15' 2" f	14' 5" d	12' 5" d	14' 6" f	13' 11" d	12' 0" d	13' 11" f	13' 6" d	11' 8" d
	13	8	17' 4" f	14' 0" d	12' 2" d	14' 11" f	13' 9" d	11' 7" d	14' 0" f	13' 9" d	11' 7" d	13' 3" f	13' 3" f	11' 7" d	12' 8" f	12' 8" f	11' 7" d	12' 1" f	12' 1" f	11' 7" d	11' 8" f	11' 8" f	11' 3" d	11' 3" f	11' 3" f	10' 10" d	10' 11" f	10' 11" f	10' 6" d
		10	20' 10" d	16' 7" d	14' 6" d	17' 3" f	16' 3" d	13' 9" d	15' 11" f	15' 11" f	13' 9" d	15' 0" f	15' 0" f	13' 5" d	14' 2" f	14' 2" f	12' 8" d	13' 6" f	13' 6" f	12' 1" d	12' 11" f	12' 11" f	11' 8" d	12' 5" f	12' 5" f	11' 3" d	12' 0" f	12' 0" f	10' 11" d
		12	29' 2" f	23' 11" d	20' 10" d	21' 0" f	18' 9" d	16' 1" d	18' 11" f	17' 2" d	14' 10" d	17' 5" f	16' 1" d	13' 11" d	16' 4" f	15' 3" d	13' 3" d	15' 5" f	14' 7" d	12' 8" d	14' 8" f	14' 1" d	12' 3" d	14' 1" f	13' 7" d	11' 11" d	13' 7" f	13' 3" d	11' 7" d
	15	8	15' 0" f	12' 6" d	10' 11" d	13' 1" f	12' 3" d	10' 4" d	12' 5" f	12' 3" d	10' 4" d	11' 10" f	11' 10" f	10' 4" d	11' 4" f	11' 4" f	10' 4" d	10' 10" f	10' 10" f	10' 4" d	10' 6" f	10' 6" f	10' 4" d	10' 2" f	10' 2" f	10' 2" f	9' 10" f	9' 10" f	9' 10" f
		10	17' 3" f	14' 0" d	12' 2" d	14' 7" f	13' 9" d	11' 7" d	13' 9" f	13' 9" f	11' 7" d	13' 0" f	13' 0" f	11' 7" d	12' 5" f	12' 5" f	11' 7" d	11' 11" f	11' 11" f	11' 6" d	11' 5" f	11' 5" f	11' 1" d	11' 1" f	11' 1" f	10' 8" d	10' 9" f	10' 9" f	10' 5" d
		12	20' 10" d	16' 7" d	14' 6" d	16' 10" f	16' 3" d	13' 9" d	15' 7" f	15' 7" f	13' 9" d	14' 8" f	14' 8" f	13' 2" d	13' 11" f	13' 11" f	12' 7" d	13' 3" f	13' 3" f	12' 0" d	12' 9" f	12' 9" f	11' 7" d	12' 3" f	12' 3" f	11' 3" d	11' 11" f	11' 11" f	10' 11" d
600JS350-118, 50ksi	9	6	22' 2" d	17' 7" d	15' 4" d	19' 10" d	17' 4" d	14' 7" d	19' 3" f	17' 4" d	14' 7" d	18' 2" f	17' 4" d	14' 7" d	17' 3" f	16' 11" d	14' 3" d	16' 5" f	16' 1" d	13' 7" d	15' 8" f	15' 5" d	13' 0" d	15' 1" f	14' 9" d	12' 6" d	14' 6" f	14' 3" d	12' 0" d
		8	32' 0" d	25' 5" d	22' 2" d	24' 5" d	21' 4" d	18' 0" d	22' 3" d	19' 5" d	16' 4" d	20' 7" d	18' 0" d	15' 8" d	19' 5" d	16' 11" d	14' 10" d	18' 5" d	16' 1" d	14' 1" d	17' 7" d	15' 10" d	13' 6" d	16' 11" f	15' 3" d	13' 1" d	16' 1" f	14' 10" d	12' 8" d
	11	8	22' 2" d	17' 7" d	15' 4" d	19' 8" f	17' 4" d	14' 7" d	18' 3" f	17' 4" d	14' 7" d	17' 1" f	16' 10" d	14' 7" d	16' 2" f	15' 11" d	13' 10" d	15' 8" f	15' 5" d	13' 2" d	15' 0" f	14' 10" d	12' 7" d	14' 5" f	14' 3" d	12' 2" d	13' 11" f	13' 10" d	11' 9" d
		10	32' 0" d	25' 5" d	22' 2" d	22' 10" d	20' 0" d	17' 6" d	20' 9" d	18' 9" d	16' 1" d	19' 11" f	17' 6" d	15' 0" d	18' 9" d	16' 7" d	14' 3" d	17' 11" d	15' 10" d	13' 7" d	17' 1" f	15' 2" d	13' 1" d	16' 4" f	14' 8" d	12' 8" d	15' 8" f	14' 3" d	12' 3" d
	13	8	18' 8" d	14' 10" d	12' 11" d	16' 5" f	14' 7" d	12' 4" d	15' 8" f	14' 7" d	12' 4" d	14' 10" f	14' 7" d	12' 4" d	14' 2" f	14' 2" f	12' 4" d	13' 7" f	13' 7" f	12' 4" d	13' 1" f	13' 1" f	11' 11" d	12' 7" f	12' 7" f	11' 6" d	12' 2" f	12' 2" f	11' 1" d
		10	22' 2" d	17' 7" d	15' 4" d	19' 3" f	17' 4" d	14' 7" d	17' 10" f	17' 4" d	14' 7" d	16' 9" f	16' 6" d	14' 2" d	15' 10" f	15' 8" d	13' 5" d	15' 1" f	14' 11" d	12' 10" d	14' 5" f	14' 4" d	12' 4" d	13' 11" f	13' 10" d	11' 11" d	13' 5" f	13' 5" f	11' 6" d
		12	32' 0" d	25' 5" d	22' 2" d	22' 5" d	19' 9" d	17' 0" d	20' 6" d	18' 2" d	15' 7" d	19' 2" d	17' 0" d	14' 8" d	18' 2" d	16' 1" d	13' 11" d	17' 3" f	15' 5" d	13' 4" d	16' 5" f	14' 10" d	12' 10" d	15' 8" f	14' 4" d	12' 6" d	15' 1" f	13' 11" d	12' 2" d
	15	8	16' 6" f	13' 3" d	11' 7" d	14' 7" f	13' 1" d	11' 0" d	13' 10" f	13' 1" d	11' 0" d	13' 2" f	13' 1" d	11' 0" d	12' 7" f	12' 7" f	11' 0" d	12' 2" f	12' 2" f	11' 0" d	11' 9" f	11' 9" f	11' 0" d	11' 4" f	11' 4" f	10' 11" d	11' 0" f	11' 0" f	10' 7" d
		10	18' 8" d	14' 10" d	12' 11" d	16' 3" f	14' 7" d	12' 4" d	15' 4" f	14' 7" d	12' 4" d	14' 6" f	14' 6" f	12' 4" d	13' 10" f	13' 10" f	12' 4" d	13' 3" f	13' 3" f	12' 2" d	12' 9" f	12' 9" f	11' 8" d	12' 4" f	12' 4" f	11' 3" d	11' 11" f	11' 11" f	10' 11" d
		12	22' 2" d	17' 7" d	15' 4" d	18' 9" f	17' 4" d	14' 7" d	17' 5" f	17' 3" d	14' 7" d	16' 4" f	16' 2" d	13' 11" d	15' 5" f	15' 3" d	13' 2" d	14' 9" f	14' 7" d	12' 8" d	14' 2" f	14' 1" d	12' 2" d	13' 7" f	13' 7" f	11' 10" d	13' 2" f	13' 2" f	11' 6" d
800JS250-43, 50ksi	9	6	9' 2" f	9' 2" f	8' 10" d	8' 6" f	8' 6" f	8' 4" d	8' 3" f	8' 3" f	8' 3" f	8' 0" f	8' 0" f	8' 0" f	7' 10" f	7' 10" f	7' 10" f	7' 7" f	7' 7" f	7' 7" f	7' 5" f	7' 5" f	7' 5" f	7' 3" f	7' 3" f	7' 3" f	7' 1" f	7' 1" f	7' 1" f
		8	14' 9" f	14' 7" d	12' 9" d	12' 6" f	12' 6" f	12' 1" d	11' 9" f	11' 9" f	11' 9" f	11' 1" f	11' 1" f	11' 1" f	10' 7" f	10' 7" f	10' 7" f	10' 2" f	10' 2" f	10' 2" f	9' 10" f	9' 10" f	9' 10" f	9' 6" f	9' 6" f	9' 6" f	9' 2" f	9' 2" f	9' 2" f
	11	8	9' 2" f	9' 2" f	8' 10" d	8' 5" f	8' 5" f	8' 4" d	8' 2" f	8' 2" f	8' 2" f	7' 11" f	7' 11" f	7' 11" f	7' 9" f	7' 9" f	7' 9" f	7' 6" f	7' 6" f	7' 6" f	7' 4" f	7' 4" f	7' 4" f	7' 2" f	7' 2" f	7' 2" f	7' 1" f	7' 1" f	7' 1" f
		10	14' 6" f	14' 6" f	12' 9" d	12' 2" f	12' 2" f	12' 1" d	11' 6" f	11' 6" f	11' 6" f	10' 11" f	10' 11" f	10' 11" f	10' 5" f	10' 5" f	10' 5" f	10' 0" f	10' 0" f	10' 0" f	9' 8" f	9' 8" f	9' 8" f	9' 5" f	9' 5" f	9' 5" f	9' 2" f	9' 2" f	9' 2" f
	13	8	7' 2" f	7' 2" f	7' 2" f	6' 10" f	6' 10" f	6' 10" f	6' 8" f	6' 8" f	6' 8" f	6' 6" f	6' 6" f	6' 6" f	6' 4" f	6' 4" f	6' 4" f	6' 3" f	6' 3" f	6' 3" f	6' 1" f	6' 1" f	6' 1" f	6' 0" f	6' 0" f	6' 0" f	5' 11" f	5' 11" f	5' 11" f
		10	9' 2" f	9' 2" f	8' 10" d	8' 5" f	8' 5" f	8' 4" d	8' 2" f	8' 2" f	8' 2" f	7' 11" f	7' 11" f	7' 11" f	7' 9" f	7' 9" f	7' 9" f	7' 6" f	7' 6" f	7' 6" f	7' 4" f	7' 4" f	7' 4" f	7' 2" f	7' 2" f	7' 2" f	7' 1" f	7' 1" f	7' 1" f
		12	14' 5" f	14' 5" f	12' 9" d	12' 1" f	12' 1" f	12' 1" f	11' 5" f	11' 5" f	11' 5" f	10' 10" f	10' 10" f	10' 10" f	10' 5" f	10' 5" f	10' 5" f	10' 0" f	10' 0" f	10' 0" f	9' 8" f	9' 8" f	9' 8" f	9' 5" f	9' 5" f	9' 5" f	9' 2" f	9' 2" f	9' 2" f
	15	8	6' 1" f	6' 1" f	6' 1" f	5' 10" f	5' 10" f	5' 10" f	5' 8" f	5' 8" f	5' 8" f	5' 7" f	5' 7" f	5' 7" f	5' 6" f	5' 6" f	5' 6" f	5' 5" f	5' 5" f	5' 5" f	5' 4" f	5' 4" f	5' 4" f	5' 3" f	5' 3" f	5' 3" f	5' 2" f	5' 2" f	5' 2" f
		10	7' 2" f	7' 2" f	7' 2" f	6' 10" f	6' 10" f	6' 10" f	6' 8" f	6' 8" f	6' 8" f	6' 6" f	6' 6" f	6' 6" f	6' 4" f	6' 4" f	6' 4" f	6' 3" f	6' 3" f	6' 3" f	6' 1" f	6' 1" f	6' 1" f	6' 0" f	6' 0" f	6' 0" f	5' 11" f	5' 11" f	5' 11" f
		12	9' 2" f	9' 2" f	8' 10" d	8' 5" f	8' 5" f	8' 4" d	8' 2" f	8' 2" f	8' 2" f	7' 11" f	7' 11" f	7' 11" f	7' 9" f	7' 9" f	7' 9" f	7' 6" f	7' 6" f	7' 6" f	7' 4" f	7' 4" f	7' 4" f	7' 2" f	7' 2" f	7' 2" f	7' 1" f	7' 1" f	7' 1" f
800JS250-54, 50ksi	9	6	11' 1" f	10' 10" d	9' 6" d	10' 3" f	10' 3" f	9' 0" d	9' 10" f	9' 10" f	9' 0" d	9' 7" f	9' 7" f	9' 0" d	9' 3" f	9' 3" f	9' 0" d	9' 0" f	9' 0" f	9' 0" f	8' 9" f	8' 9" f	8' 9" f	8' 7" f	8' 7" f	8' 7" f	8' 4" f	8' 4" f	8' 4" f
		8	17' 7" f	15' 8" d	13' 8" d	14' 9" f	14' 9" f	13' 0" d	13' 10" f	13' 10" f	13' 0" d	13' 0" f	13' 0" f	13' 0" f	12' 5" f	12' 5" f	12' 5" f	11' 10" f	11' 10" f	11' 10" f	11' 5" f	11' 5" f	11' 5" f	11' 0" f	11' 0" f	11' 0" f	10' 7" f	10' 7" f	10' 7" f
	11	8	11' 0" f	10' 10" d	9' 6" d	10' 1" f	10' 1" f	9' 0" d	9' 9" f	9' 9" f	9' 0" d	9' 5" f	9' 5" f	9' 0" d	9' 1" f	9' 1" f	9' 0" d	8' 10" f	8' 10" f	8' 10" f	8' 8" f	8' 8" f	8' 8" f	8' 5" f	8' 5" f	8' 5" f	8' 3" f	8' 3" f	8' 3" f
		10	17' 4" f	15' 8" d	13' 8" d	14' 4" f	14' 4" f	13' 0" d	13' 4" f	13' 4" f	13' 0" d	12' 7" f	12' 7" f	12' 7" f	12' 0" f	12' 0" f	12' 0" f	11' 6" f	11' 6" f	11' 6" f	11' 1" f	11' 1" f	11' 1" f	10' 9" f	10' 9" f	10' 9" f	10' 5" f	10' 5" f	10' 5" f
	13	8	8' 8" f	8' 8" f	8' 0" d	8' 1" f	8' 1" f	7' 7" d	7' 11" f	7' 11" f	7' 7" d	7' 9" f	7' 9" f	7' 7" d	7' 6" f	7' 6" f	7' 6" f	7' 4" f	7' 4" f	7' 4" f	7' 3" f	7' 3" f	7' 3" f	7' 1" f	7' 1" f	7' 1" f	6' 11" f	6' 11" f	6' 11" f
		10	10' 11" f	10' 10" d	9' 6" d	10' 0" f	10' 0" f	9' 0" d	9' 8" f	9' 8" f	9' 0" d	9' 4" f	9' 4" f	9' 0" d	9' 1" f	9' 1" f	9' 0" d	8' 10" f	8' 10" f	8' 10" f	8' 7" f	8' 7" f	8' 7" f	8' 5" f	8' 5" f	8' 5" f	8' 3" f	8' 3" f	8' 3" f
		12	17' 1" f	15' 8" d	13' 8" d	14' 1" f	14' 1" f	13' 0" d	13' 2" f	13' 2" f	13' 0" d	12' 6" f	12' 6" f	12' 6" f	11' 11" f	11' 11" f	11' 11" f	11' 5" f	11' 5" f	11' 5" f	11' 1" f	11' 1" f	11' 1" f	10' 8" f	10' 8" f	10' 8" f	10' 5" f	10' 5" f	10' 5" f
	15	8	7' 4" f	7' 4" f	7' 2" d	7' 0" f	7' 0" f	6' 9" d	6' 10" f	6' 10" f	6' 9" d	6' 8" f	6' 8" f	6' 8" f	6' 7" f	6' 7" f	6' 7" f	6' 5" f	6' 5" f	6' 5" f	6' 4" f	6' 4" f	6' 4" f	6' 2" f	6' 2" f	6' 2" f	6' 1" f	6' 1" f	6' 1" f
		10	8' 8" f	8' 8" f	8' 0" d	8' 1" f	8' 1" f	7' 7" d	7' 11" f	7' 11" f	7' 7" d	7' 9" f	7' 9" f	7' 7" d	7' 6" f	7' 6" f	7' 6" f	7' 4" f	7' 4" f	7' 4" f	7' 3" f	7' 3" f	7' 3" f	7' 1" f	7' 1" f	7' 1" f	6' 11" f	6' 11" f	6' 11" f
		12	10' 11" f	10' 10" d	9' 6" d	10' 0" f	10' 0" f	9' 0" d	9' 8" f	9' 8" f	9' 0" d	9' 4" f	9' 4" f	9' 0" d	9' 1" f	9' 1" f	9' 0" d	8' 10" f	8' 10" f	8' 10" f	8' 7" f	8' 7" f	8' 7" f	8' 5" f	8' 5" f	8' 5" f	8' 3" f	8' 3" f	8' 3" f
800JS250-68, 50ksi	9	6	13' 4" f	11' 8" d	10' 2" d	12' 2" f	11' 6" d	9' 8" d	11' 10" f	11' 6" d	9' 8" d	11' 5" f	11' 5" f	9' 8" d	11' 0" f	11' 0" f	9' 8" d	10' 9" f	10' 9" f	9' 8" d	10' 5" f	10' 5" f	9' 8" d	10' 2" f	10' 2" f	9' 8" d	9' 11" f	9' 11" f	9' 8" d
		8	21' 1" f	16' 10" d	14' 9" d	17' 3" f	16' 7" d	14' 0" d	16' 0" f	16' 0" f	14' 0" d	15' 4" f	15' 4" f	14' 0" d	14' 7" f	14' 7" f	14' 0" d	13' 11" f	13' 11" f	13' 10" d	13' 4" f	13' 4" f	13' 3" d	12' 10" f	12' 10" f	12' 10" f	12' 4" f	12' 4" f	12' 4" f
	11	8	13' 3" f	11' 8" d	10' 2" d	12' 0" f	11' 6" d	9' 8" d	11' 7" f	11' 6" d	9' 8" d	11' 2" f	11' 2" f	9' 8" d	10' 9" f	10' 9" f	9' 8" d	10' 5" f	10' 5" f	9' 8" d	10' 2" f	10' 2" f	9' 8" d	9' 11" f	9' 11" f	9' 8" d	9' 8" f	9' 8" f	9' 8" f
		10	20' 7" f	16' 10" d	14' 9" d	16' 11" f	16' 7" d	14' 0" d	15' 8" f	15' 8" f	14' 0" d	14' 9" f	14' 9" f	14' 0" d	14' 0" f	14' 0" f	13' 11" d	13' 4" f	13' 4" f	13' 4" f	12' 9" f	12' 9" f	12' 9" f	12' 4" f	12' 4" f	12' 4" f	11' 11" f	11' 11" f	11' 11" f
	13	8	10' 5" f	9' 10" d	8' 7" d	9' 9" f	9' 8" d	8' 2" d	9' 5" f	9' 5" f	8' 2" d	9' 2" f	9' 2" f	8' 2" d	8' 11" f	8' 11" f	8' 2" d	8' 9" f	8' 9" f	8' 2" d	8' 6" f	8' 6" f	8' 2" d	8' 4" f	8' 4" f	8' 2" d	8' 2" f	8' 2" f	8' 2" f
		10	13' 2" f	11' 8" d	10' 2" d	11' 11" f	11' 6" d	9' 8" d	11' 5" f	11' 5" f	9' 8" d	11' 0" f	11' 0" f	9' 8" d	10' 8" f	10' 8" f	9' 8" d	10' 4" f	10' 4" f	9' 8" d	10' 1" f	10' 1" f	9' 8" d	9' 10" f	9' 10" f	9' 8" d	9' 7" f	9' 7" f	9' 7" f
		12	20' 5" f	16' 10" d	14' 9" d	16' 5" f	16' 5" f	14' 0" d	15' 3" f	15' 3" f	14' 0" d	14' 4" f	14' 4" f	14' 0" d	13' 8" f	13' 8" f	13' 8" f	13' 1" f	13' 1" f	13' 1" f	12' 7" f	12' 7" f	12' 7" f	12' 2" f	12' 2" f	12' 2" f	11' 10" f	11' 10" f	11' 10" f
	15	8	8' 10" f	8' 9" d	7' 8" d	8' 4" f	8' 4" f	7' 3" d	8' 2" f	8' 2" f	7' 3" d	8' 0" f	8' 0" f	7' 3" d	7' 10" f	7' 10" f	7' 3" d	7' 8" f	7' 8" f	7' 3" d	7' 6" f	7' 6" f	7' 3" d	7' 4" f	7' 4" f	7' 3" d	7' 2" f	7' 2" f	7' 2" f
		10	10' 5" f	9' 10" d	8' 7" d	9' 8" f	9' 8" f	8' 2" d	9' 5" f	9' 5" f	8' 2" d	9' 2" f	9' 2" f	8' 2" d	8' 11" f	8' 11" f	8' 2" d	8' 8" f	8' 8" f	8' 2" d	8' 6" f	8' 6" f	8' 2" d	8' 4" f	8' 4" f	8' 2" d	8' 2" f	8' 2" f	8' 2" f
		12	13' 1" f	11' 8" d	10' 2" d	11' 10" f	11' 6" d	9' 8" d	11' 5" f	11' 5" f	9' 8" d	11' 0" f	11' 0" f	9' 8" d	10' 8" f	10' 8" f	9' 8" d	10' 4" f	10' 4" f	9' 8" d	10' 1" f	10' 1" f	9' 8" d	9' 10" f	9' 10" f	9' 8" d	9' 7" f	9' 7" f	9' 7" f
800JS250-97, 50ksi	9	6	16' 5" d	13' 0" d	11' 4" d	14' 8" d	12' 10" d	10' 10" d	14' 8" d	12' 10" d	10' 10" d	14' 8" d	12' 10" d	10' 10" d	14' 2" f	12' 10" d	10' 10" d	13' 9" f	12' 10" d	10' 10" d	13' 4" f	12' 10" d	10' 10" d	12' 11" f	12' 10" d	10' 10" d	12' 7" f	12' 7" f	10' 10" d
		8	23' 8" d	18' 10" d	16' 5" d	21' 2" d	18' 6" d	15' 7" d	20' 8" f	18' 6" d	15' 7" d	19' 4" f	18' 6" d	15' 7" d	18' 2" f	18' 2" f	15' 7" d	17' 3" f	17' 3" f	15' 4" d	16' 5" f	16' 5" f	14' 9" d	15' 11" f	15' 11" f	14' 2" d	15' 7" f	15' 7" f	13' 9" d
	11	8	16' 5" d	13' 0" d	11' 4" d	14' 8" d	12' 10" d	10' 10" d	14' 8" d	12' 10" d	10' 10" d	14' 4" f	12' 10" d	10' 10" d	13' 10" f	12' 10" d	10' 10" d	13' 5" f	12' 10" d	10' 10" d	13' 0" f	12' 10" d	10' 10" d	12' 7" f	12' 7" f	10' 10" d	12' 3" f	12' 3" f	10' 10" d
		10	23' 8" d	18' 10" d	16' 5" d	21' 2" d	18' 6" d	15' 7" d	19' 11" f	18' 6" d	15' 7" d	18' 8" f	18' 6" d	15' 7" d	17' 7" f	17' 7" f	15' 5" d	16' 8" f	16' 8" f	14' 9" d	16' 0" f	16' 0" f	14' 2" d	15' 4" f	15' 4" f	13' 8" d	14' 9" f	14' 9" f	13' 3" d
	13	8	13' 9" f	11' 0" d	9' 7" d	12' 4" d	10' 10" d	9' 1" d	12' 3" f	10' 10" d	9' 1" d	11' 10" f	10' 10" d	9' 1" d	11' 6" f	10' 10" d	9' 1" d	11' 3" f	10' 10" d	9' 1" d	10' 11" f	10' 10" d	9' 1" d	10' 8" f	10' 8" f	9' 1" d	10' 5" f	10' 5" f	9' 1" d
		10	16' 5" d	13' 0" d	11' 4" d	14' 8" d	12' 10" d	10' 10" d	14' 8" f	12' 10" d	10' 10" d	14' 1" f	12' 10" d	10' 10" d	13' 6" f	12' 10" d	10' 10" d	13' 1" f	12' 10" d	10' 10" d	12' 8" f	12' 8" f	10' 10" d	12' 4" f	12' 4" f	10' 10" d	12' 0" f	12' 0" f	10' 10" d
		12	23' 8" d	18' 10" d	16' 5" d	20' 10" f	18' 6" d	15' 7" d	19' 3" f	18' 6" d	15' 7" d	17' 11" f	17' 11" f	15' 7" d	16' 11" f	16' 11" f	15' 0" d	16' 1" f	16' 1" f	14' 5" d	15' 5" f	15' 5" f	13' 10" d	14' 10" f	14' 10" f	13' 5" d	14' 4" f	14' 4" f	13' 0" d
	15	8	11' 8" f	9' 10" d	8' 7" d	10' 11" f	9' 8" d	8' 2" d	10' 8" f	9' 8" d	8' 2" d	10' 4" f	9' 8" d	8' 2" d	10' 1" f	9' 8" d	8' 2" d	9' 10" f	9' 8" d	8' 2" d	9' 7" f	9' 7" f	8' 2" d	9' 5" f	9' 5" f	8' 2" d	9' 3" f	9' 3" f	8' 2" d
		10	13' 8" f	11' 0" d	9' 7" d	12' 4" d	10' 10" d	9' 1" d	12' 2" f	10' 10" d	9' 1" d	11' 9" f	10' 10" d	9' 1" d	11' 5" f	10' 10" d	9' 1" d	11' 1" f	10' 10" d	9' 1" d	10' 10" f	10' 10" f	9' 1" d	10' 7" f	10' 7" f	9' 1" d	10' 4" f	10' 4" f	9' 1" d
		12	16' 5" d	13' 0" d	11' 4" d	14' 8" d	12' 10" d	10' 10" d	14' 6" f	12' 10" d	10' 10" d	13' 10" f	12' 10" d	10' 10" d	13' 4" f	12' 10" d	10' 10" d	12' 11" f	12' 10" d	10' 10" d	12' 6" f	12' 6" f	10' 10" d	12' 2" f	12' 2" f	10' 10" d	11' 11" f	11' 11" f	10' 10" d

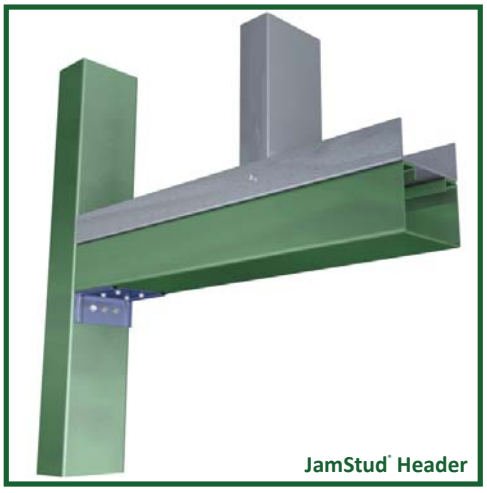
Light Steel Framing Openings

JamStud® Non Load Bearing Opening Allowable Header Spans

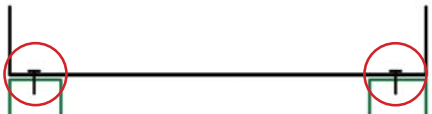
Refer to Important Table Notes on Page 35

JamStud Member	Wall Ht. (ft)	Opening Height (ft)	Wind Pressure (PSF) And Deflection Limits																												
			5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			45 psf			50 psf				
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600		
800JS250-118, 50ksi	9	6	17' 5" d	13' 10" d	12' 1" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 2" f	13' 7" d	11' 6" d	14' 9" f	13' 7" d	11' 6" d	14' 4" f	13' 7" d	11' 6" d		
		8	25' 2" d	19' 11" d	17' 5" d	22' 6" d	19' 8" d	16' 7" d	22' 6" d	19' 8" d	16' 7" d	21' 11" f	19' 8" d	16' 7" d	20' 8" f	19' 8" d	16' 7" d	19' 6" f	18' 9" d	15' 11" d	18' 7" f	17' 11" d	15' 7" d	17' 9" f	17' 3" d	15' 0" d	17' 1" f	16' 8" d	14' 7" d		
	11	8	17' 5" d	13' 10" d	12' 1" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 2" f	13' 7" d	11' 6" d	14' 8" f	13' 7" d	11' 6" d	14' 3" f	13' 7" d	11' 6" d	13' 10" f	13' 7" d	11' 6" d		
		10	25' 2" d	19' 11" d	17' 5" d	22' 6" d	19' 8" d	16' 7" d	22' 1" f	19' 8" d	16' 7" d	20' 6" f	19' 8" d	16' 7" d	19' 9" f	19' 1" d	16' 4" d	18' 9" f	18' 2" d	15' 7" d	17' 11" f	17' 5" d	14' 11" d	17' 2" f	16' 10" d	14' 5" d	16' 6" f	16' 4" d	14' 0" d		
	13	8	14' 8" d	11' 8" d	10' 2" d	13' 2" d	11' 6" d	9' 8" d	13' 2" d	11' 6" d	9' 8" d	13' 2" d	11' 6" d	9' 8" d	13' 2" f	11' 6" d	9' 8" d	12' 9" f	11' 6" d	9' 8" d	12' 5" f	11' 6" d	9' 8" d	12' 1" f	11' 6" d	9' 8" d	11' 10" f	11' 6" d	9' 8" d		
		10	17' 5" d	13' 10" d	12' 1" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 4" f	13' 7" d	11' 6" d	14' 9" f	13' 7" d	11' 6" d	14' 3" f	13' 7" d	11' 6" d	13' 10" f	13' 7" d	11' 6" d	13' 5" f	13' 5" f	11' 6" d		
		12	25' 2" d	19' 11" d	17' 5" d	22' 6" d	19' 8" d	16' 7" d	21' 7" f	19' 8" d	16' 7" d	20' 2" f	19' 6" d	16' 7" d	18' 11" f	18' 5" d	15' 10" d	18' 0" f	17' 7" d	15' 2" d	17' 2" f	16' 11" d	14' 7" d	16' 6" f	16' 4" d	14' 1" d	15' 11" f	15' 10" d	13' 9" d		
	15	8	13' 2" d	10' 5" d	9' 1" d	11' 9" d	10' 3" d	8' 8" d	11' 9" d	10' 3" d	8' 8" d	11' 9" d	10' 3" d	8' 8" d	11' 6" f	10' 3" d	8' 8" d	11' 2" f	10' 3" d	8' 8" d	10' 11" f	10' 3" d	8' 8" d	10' 8" f	10' 3" d	8' 8" d	10' 5" f	10' 3" d	8' 8" d		
		10	14' 8" d	11' 8" d	10' 2" d	13' 2" d	11' 6" d	9' 8" d	13' 2" d	11' 6" d	9' 8" d	13' 2" d	11' 6" d	9' 8" d	12' 11" f	11' 6" d	9' 8" d	12' 7" f	11' 6" d	9' 8" d	12' 3" f	11' 6" d	9' 8" d	11' 11" f	11' 6" d	9' 8" d	11' 7" f	11' 6" d	9' 8" d		
		12	17' 5" d	13' 10" d	12' 1" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 7" d	13' 7" d	11' 6" d	15' 0" f	13' 7" d	11' 6" d	14' 6" f	13' 7" d	11' 6" d	14' 0" f	13' 7" d	11' 6" d	13' 7" f	13' 7" f	11' 6" d	13' 3" f	13' 3" f	11' 6" d		
800JS350-68, 50ksi	9	6	16' 11" f	15' 4" d	13' 4" d	14' 10" f	14' 10" f	12' 8" d	14' 1" f	14' 1" f	12' 8" d	13' 5" f	13' 5" f	12' 8" d	12' 10" f	12' 10" f	12' 8" d	12' 3" f	12' 3" f	12' 3" f	11' 11" f	11' 11" f	11' 11" f	11' 8" f	11' 8" f	11' 8" f	11' 3" f	11' 3" f	11' 3" f		
		8	25' 9" f	22' 1" d	19' 4" d	19' 10" f	19' 10" f	18' 4" d	18' 1" f	18' 1" f	17' 2" d	16' 8" f	16' 8" f	15' 11" d	15' 11" f	15' 11" f	15' 5" d	15' 2" f	15' 2" f	14' 9" d	14' 6" f	14' 6" f	14' 2" d	13' 10" f	13' 10" f	13' 7" d	13' 4" f	13' 4" f	13' 2" d		
	11	8	16' 7" f	15' 4" d	13' 4" d	14' 6" f	14' 6" f	12' 8" d	13' 9" f	13' 9" f	12' 8" d	13' 1" f	13' 1" f	12' 8" d	12' 6" f	12' 6" f	12' 6" f	12' 0" f	12' 0" f	12' 0" f	11' 7" f	11' 7" f	11' 7" f	11' 2" f	11' 2" f	11' 2" f	10' 10" f	10' 10" f	10' 10" f		
		10	24' 9" f	22' 1" d	19' 4" d	19' 1" f	19' 1" f	18' 4" d	17' 6" f	17' 6" f	16' 9" d	16' 3" f	16' 3" f	15' 8" d	15' 3" f	15' 3" f	14' 10" d	14' 5" f	14' 5" f	14' 2" d	13' 9" f	13' 9" f	13' 7" d	13' 3" f	13' 3" f	13' 2" d	12' 9" f	12' 9" f	12' 9" f		
	13	8	13' 3" f	12' 11" d	11' 3" d	11' 11" f	11' 11" f	10' 8" d	11' 5" f	11' 5" f	10' 8" d	10' 11" f	10' 11" f	10' 8" d	10' 7" f	10' 7" f	10' 7" f	10' 2" f	10' 2" f	10' 2" f	9' 11" f	9' 11" f	9' 11" f	9' 7" f	9' 7" f	9' 7" f	9' 4" f	9' 4" f	9' 4" f		
		10	16' 6" f	15' 4" d	13' 4" d	14' 2" f	14' 2" f	12' 8" d	13' 5" f	13' 5" f	12' 8" d	12' 9" f	12' 9" f	12' 8" d	12' 2" f	12' 2" f	12' 2" f	11' 9" f	11' 9" f	11' 9" f	11' 4" f	11' 4" f	11' 4" f	11' 0" f	11' 0" f	11' 0" f	10' 8" f	10' 8" f	10' 8" f		
		12	23' 11" f	22' 1" d	19' 4" d	18' 5" f	18' 5" f	17' 8" d	16' 10" f	16' 10" f	16' 3" d	15' 8" f	15' 8" f	15' 3" d	14' 9" f	14' 9" f	14' 6" d	14' 0" f	14' 0" f	13' 10" d	13' 5" f	13' 5" f	13' 4" d	12' 11" f	12' 11" f	12' 11" f	12' 6" f	12' 6" f	12' 6" f		
	15	8	11' 4" f	11' 4" f	10' 1" d	10' 4" f	10' 4" f	9' 7" d	10' 0" f	10' 0" f	9' 7" d	9' 7" f	9' 7" f	9' 7" f	9' 4" f	9' 4" f	9' 4" f	9' 0" f	9' 0" f	9' 0" f	8' 10" f	8' 10" f	8' 10" f	8' 7" f	8' 7" f	8' 7" f	8' 4" f	8' 4" f	8' 4" f		
		10	13' 2" f	12' 11" d	11' 3" d	11' 10" f	11' 10" f	10' 8" d	11' 3" f	11' 3" f	10' 8" d	10' 10" f	10' 10" f	10' 8" d	10' 5" f	10' 5" f	10' 5" f	10' 1" f	10' 1" f	10' 1" f	9' 10" f	9' 10" f	9' 10" f	9' 7" f	9' 7" f	9' 7" f	9' 4" f	9' 4" f	9' 4" f		
		12	16' 5" f	15' 4" d	13' 4" d	14' 0" f	14' 0" f	12' 8" d	13' 3" f	13' 3" f	12' 8" d	12' 7" f	12' 7" f	12' 7" f	12' 1" f	12' 1" f	12' 1" f	11' 8" f	11' 8" f	11' 8" f	11' 3" f	11' 3" f	11' 3" f	10' 11" f	10' 11" f	10' 11" f	10' 8" f	10' 8" f	10' 8" f		
800JS350-97, 50ksi	9	6	21' 7" d	17' 2" d	15' 0" d	19' 4" d	16' 10" d	14' 2" d	18' 5" f	16' 10" d	14' 2" d	17' 6" f	16' 10" d	14' 2" d	16' 8" f	16' 8" f	14' 2" d	16' 0" f	16' 0" f	14' 2" d	15' 5" f	15' 5" f	14' 2" d	14' 10" f	14' 10" f	14' 2" d	14' 4" f	14' 4" f	14' 1" d		
		8	31' 2" d	24' 9" d	21' 7" d	25' 9" f	24' 4" d	20' 6" d	23' 5" f	22' 9" d	19' 2" d	21' 7" f	21' 1" d	17' 10" d	20' 2" f	19' 10" d	16' 9" d	19' 0" f	18' 10" d	15' 11" d	18' 0" f	18' 0" f	15' 8" d	17' 2" f	17' 2" f	15' 2" d	16' 5" f	16' 5" f	14' 8" d		
	11	8	21' 7" d	17' 2" d	15' 0" d	18' 9" f	16' 10" d	14' 2" d	17' 7" f	16' 10" d	14' 2" d	16' 7" f	16' 7" f	14' 2" d	15' 11" f	15' 11" f	14' 2" d	15' 5" f	15' 5" f	14' 2" d	14' 10" f	14' 10" f	14' 2" d	14' 3" f	14' 3" f	14' 1" d	13' 10" f	13' 10" f	13' 8" d		
		10	31' 2" d	24' 9" d	21' 7" d	24' 1" f	23' 5" d	19' 11" d	21' 9" f	21' 3" d	18' 7" d	20' 0" f	19' 11" d	17' 4" d	19' 3" f	19' 3" f	16' 5" d	18' 2" f	18' 2" f	15' 8" d	17' 4" f	17' 4" f	15' 0" d	16' 6" f	16' 6" f	14' 6" d	15' 11" f	15' 11" f	14' 1" d		
	13	8	17' 5" f	14' 5" d	12' 7" d	15' 7" f	14' 2" d	12' 0" d	14' 10" f	14' 2" d	12' 0" d	14' 2" f	14' 2" f	12' 0" d	13' 8" f	13' 8" f	12' 0" d	13' 2" f	13' 2" f	12' 0" d	12' 8" f	12' 8" f	12' 0" d	12' 4" f	12' 4" f	12' 0" d	12' 0" f	12' 0" f	12' 0" f		
		10	21' 7" f	17' 2" d	15' 0" d	18' 4" f	16' 10" d	14' 2" d	17' 3" f	16' 10" d	14' 2" d	16' 4" f	16' 4" f	14' 2" d	15' 6" f	15' 6" f	14' 2" d	14' 10" f	14' 10" f	14' 2" d	14' 4" f	14' 4" f	14' 2" d	13' 10" f	13' 10" f	13' 8" d	13' 4" f	13' 4" f	13' 3" d		
		12	31' 2" d	24' 9" d	21' 7" d	23' 5" f	22' 11" d	19' 7" d	21' 3" f	21' 0" d	17' 11" d	19' 8" f	19' 7" d	16' 10" d	18' 5" f	18' 5" f	15' 11" d	17' 5" f	17' 5" f	15' 3" d	16' 7" f	16' 7" f	14' 8" d	15' 11" f	15' 11" f	14' 2" d	15' 4" f	15' 4" f	13' 9" d		
	15	8	15' 0" f	12' 11" d	11' 3" d	13' 7" f	12' 8" d	10' 8" d	13' 0" f	12' 8" d	10' 8" d	12' 6" f	12' 6" f	10' 8" d	12' 1" f	12' 1" f	10' 8" d	11' 8" f	11' 8" f	10' 8" d	11' 4" f	11' 4" f	10' 8" d	11' 0" f	11' 0" f	10' 8" d	10' 8" f	10' 8" f	10' 8" f		
		10	17' 4" f	14' 5" d	12' 7" d	15' 4" f	14' 2" d	12' 0" d	14' 7" f	14' 2" d	12' 0" d	13' 11" f	13' 11" f	12' 0" d	13' 4" f	13' 4" f	12' 0" d	12' 11" f	12' 11" f	12' 0" d	12' 5" f	12' 5" f	12' 0" d	12' 1" f	12' 1" f	12' 0" d	11' 9" f	11' 9" f	11' 9" f		
		12	21' 5" f	17' 2" d	15' 0" d	18' 0" f	16' 10" d	14' 2" d	16' 10" f	16' 10" f	14' 2" d	15' 11" f	15' 11" f	14' 2" d	15' 2" f	15' 2" f	14' 2" d	14' 7" f	14' 7" f	14' 2" d	14' 0" f	14' 0" f	13' 11" d	13' 6" f	13' 6" f	13' 6" f	13' 2" f	13' 2" f	13' 1" d		
800JS350-118, 50ksi	9	6	22' 11" d	18' 3" d	15' 11" d	20' 6" d	17' 11" d	15' 1" d	20' 6" d	17' 11" d	15' 1" d	20' 1" f	17' 11" d	15' 1" d	19' 2" f	17' 11" d	15' 1" d	18' 4" f	17' 11" d	15' 1" d	17' 8" f	17' 8" f	15' 1" d	17' 0" f	17' 0" f	15' 1" d	16' 5" f	16' 5" f	15' 0" d		
		8	33' 2" d	26' 3" d	22' 11" d	29' 6" f	25' 10" d	21' 10" d	26' 10" f	24' 2" d	20' 5" d	24' 9" f	22' 6" d	18' 11" d	23' 1" f	21' 2" d	17' 10" d	21' 9" f	20' 1" d	16' 11" d	20' 7" f	19' 2" d	16' 2" d	19' 8" f	18' 6" d	15' 11" d	18' 9" f	17' 10" d	15' 6" d		
	11	8	22' 11" d	18' 3" d	15' 11" d	20' 6" d	17' 11" d	15' 1" d	20' 2" f	17' 11" d	15' 1" d	19' 1" f	17' 11" d	15' 1" d	18' 1" f	17' 11" d	15' 1" d	17' 4" f	17' 4" f	15' 1" d	16' 7" f	16' 7" f	15' 1" d	15' 11" f	15' 11" f	15' 0" d	15' 9" f	15' 9" f	14' 6" d		
		10	33' 2" d	26' 3" d	22' 11" d	27' 8" f	24' 11" d	21' 0" d	25' 0" f	22' 8" d	19' 8" d	22' 11" f	21' 0" d	18' 5" d	21' 4" f	19' 11" d	17' 4" d	20' 1" f	19' 5" d	16' 7" d	19' 7" f	18' 7" d	15' 11" d	18' 9" f	17' 11" d	15' 4" d	18' 0" f	17' 4" d	14' 10" d		
	13	8	19' 4" d	15' 4" d	13' 5" d	17' 4" d	15' 1" d	12' 9" d	16' 10" f	15' 1" d	12' 9" d	16' 1" f	15' 1" d	12' 9" d	15' 7" f	15' 1" d	12' 9" d	15' 0" f	15' 0" f	12' 9" d	14' 6" f	14' 6" f	12' 9" d	14' 1" f	14' 1" f	12' 9" d	13' 8" f	13' 8" f	12' 9" d		
		10	22' 11" d	18' 3" d	15' 11" d	20' 6" d	17' 11" d	15' 1" d	19' 8" f	17' 11" d	15' 1" d	18' 7" f	17' 11" d	15' 1" d	17' 8" f	17' 8" f	15' 1" d	16' 11" f	16' 11" f	15' 1" d	16' 3" f	16' 3" f	15' 0" d	15' 8" f	15' 8" f	14' 6" d	15' 1" f	15' 1" f	14' 0" d		
		12	33' 2" d	26' 3" d	22' 11" d	26' 1" f	23' 11" d	20' 9" d	23' 11" f	22' 3" d	19' 0" d	22' 4" f	20' 9" d	17' 9" d	20' 10" f	19' 7" d	16' 10" d	19' 8" f	18' 9" d	16' 1" d	18' 8" f	18' 0" d	15' 6" d	17' 11" f	17' 4" d	15' 0" d	17' 2" f	16' 10" d	14' 6" d		
	15	8	17' 2" f	13' 9" d	12' 0" d	15' 5" d	13' 6" d	11' 5" d	14' 10" f	13' 6" d	11' 5" d	14' 4" f	13' 6" d	11' 5" d	13' 9" f	13' 6" d	11' 5" d	13' 4" f	13' 4" f	11' 5" d	12' 11" f	12' 11" f	11' 5" d	12' 6" f	12' 6" f	11' 5" d	12' 2" f	12' 2" f	11' 5" d		
		10	19' 4" d	15' 4" d	13' 5" d	17' 4" d	15' 1" d	12' 9" d	16' 8" f	15' 1" d	12' 9" d	15' 10" f	15' 1" d	12' 9" d	15' 3" f	15' 1" d	12' 9" d	14' 8" f	14' 8" f	12' 9" d	14' 2" f	14' 2" f	12' 9" d	13' 8" f	13' 8" f	12' 9" d	13' 4" f	13' 4" f	12' 9" d		
		12	22' 11" d	18' 3" d	15' 11" d	20' 6" f	17' 11" d	15' 1" d	19' 2" f	17' 11" d	15' 1" d	18' 1" f	17' 11" d	15' 1" d	17' 2" f	17' 2" f	15' 1" d	16' 5" f	16' 5" f	15' 1" d	15' 10" f	15' 10" f	14' 8" d	15' 3" f	15' 3" f	14' 2" d	14' 9" f	14' 9" f	13' 9" d		

JamStud® Header/Sill Assembly Value

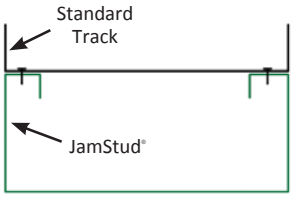


JamStud delivers exceptional value when utilized as part of a header or sill assembly. JamStud's unique shape allows for the design and construction of a lightweight header versus the more cumbersome built-up header assemblies. Oriented horizontally, JamStud provides an increased stiffness and strength compared with standard 'cee' studs, resulting in lighter headers which require less labor to install.



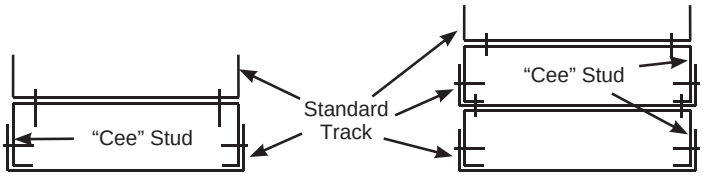
The d1 dimension of the JamStud does accommodate a single #10 or #12 screw (d= 0.19" or 0.216"). Proper installation is desired to center the screw within the flat width of dimension d1.

JamStud® Header



- Reduces overall materials used
- Speeds installation
- Fewer fasteners
- Simple Inspection

Typical "Boxed" Header Assemblies



* The top track seen in the assemblies above is to capture the cripple studs above and does not factor in the design of the header.

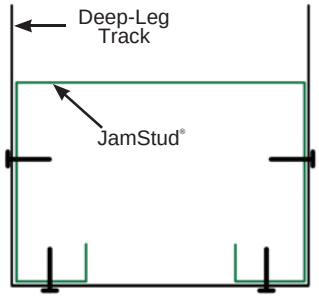
Load Transfer to Jamb

The Steel Network's StiffClip® AL series represents an ideal method to transfer loads from the header or sill to the jamb. Stiffened ribs add strength, and guide holes are provided for quick and accurate fastener placement. StiffClip AL is available in 3-5/8", 6" and 8" depths. For allowable load data, see TSN's *Light Steel Framing Connections Catalog*, or visit www.steelnetwork.com.

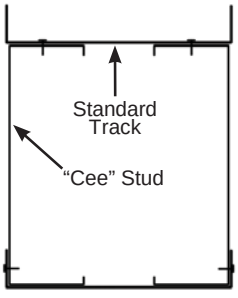
High-Wind-Load Headers

In high wind and axial load bearing wall applications, JamStud may be placed inside of a deep-leg track to provide a strong labor-efficient alternative to four-piece "Box" headers. While the amount of fasteners remains consistent, use of JamStud reduces material handling by half to streamline the installation process. Load is effectively transferred to the jambs via TSN's StiffClip HE connectors. With the use of box headers, jack studs are also typically used to support the header vertically. The shelf leg of the StiffClip HE supports the header vertically to eliminate the use of a jack stud. In addition, the StiffClip HE provides web crippling resistance for the header.

JamStud® 2-Piece Assembly



4-Piece "Box" Assembly



Project Examples

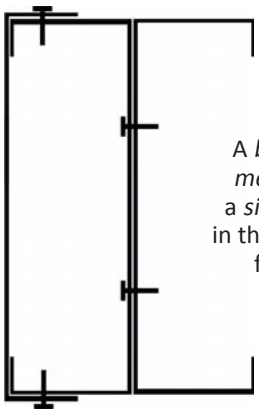
Use of JamStud® as jambs and openings on this 8 story project saved the contractor significant time and labor expenses. With the high amount of openings (500+) it is easy to see how JamStud positively benefits installation. Use of JamStud in lieu of built-up jambs and headers cut materials by over 50% and reduced labor associated with the built-up materials.

Example of a opening made of multiple (S) section studs. Seven studs and 2 tracks are utilized in this jamb, creating a significant increase in both materials and labor costs. By taking advantage of TSN's free value engineering service or by utilizing the Quick Member Selector in SteelSmart® System software (SSS), the design could have been optimized using far fewer members. SSS is available online at www.steelsmartsystem.com.

The Simple Choice to Increase Your Production

A lighter jamb without "built-up" materials or labor.

OR



A *built-up, multiple member* jamb with a *significant increase* in the amount of screw fasteners used.

SteelSmart® System 7

With 2012 IBC & ASCE 7-10

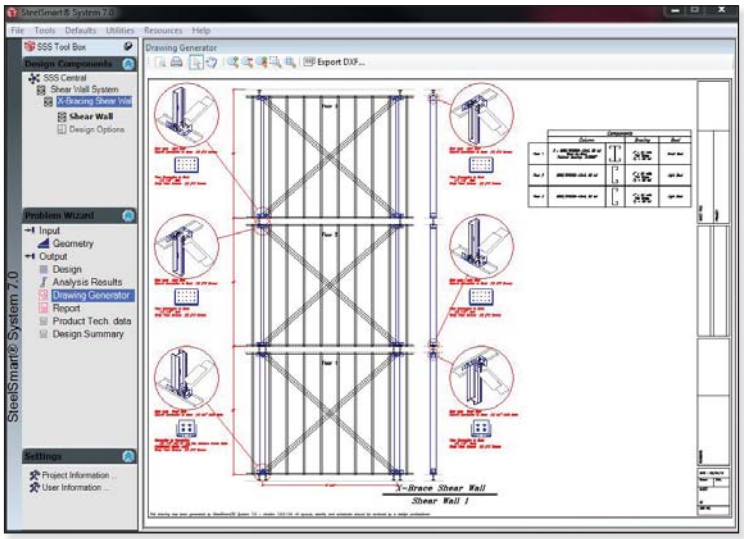
The industry's #1 tool for the design of Members, Connections, Fasteners & Details

Introduction:

SteelSmart® System (SSS) provides construction professionals with an essential tool engineered for both fast and accurate design. SSS 7 raises the bar for light steel framing analysis and design by seamlessly integrating the well-known analytic power of its predecessors with additional functionality and accessibility.

Available as a complete suite, SteelSmart System 7 will streamline production through the design and detailing of members, connections, and fasteners. Available design modules include: Curtain Wall, Load Bearing Wall, X-Brace Shear Wall, Floor Framing, Roof Framing, Roof Truss, and Moment-Resisting Short Wall. SSS 7 incorporates two Advanced Features, the Load Generator and Distributor and the Layout and Connection Details Generator, that further aid the user in the design process.

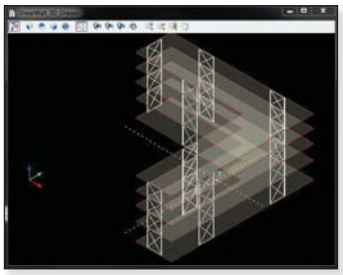
Order online at www.steelsmartsystem.com



Layout and Connection Details Generator

A major feature of SSS is the Layout and Connection Details Generator. The framing layout of components is generated with connection details that include connection design data (clips designations, number of fasteners, embedment lengths, and screw patterns). The drawing generator is included within all 7 primary design modules, and will create a detail upon successful design of components. The drawings can be printed or exported in the AutoCAD® DXF format allowing the drawings to be easily transferred into other drafting software.

In additional to the Layout and Connection Details generator, there is also a library of component details within SSS. Details are split into 7 categories including: Curtain Wall, Load Bearing Walls, Shear Walls, Products Details, Floor Framing, Roof Framing, and LSF Systems.



Load Generator and Distributor

The Load Generator and Distributor tool uses the dimensions and load specification for a building to calculate the lateral wind and seismic forces according to ASCE 7 "Minimum Design Loads for Buildings and Other Structures." Now included in the Load Generator is the IBC 2012 and ASCE 7-10 design codes for development of lateral forces and snow loads. The output from the load generator gives the laterals forces distributed between floor levels and the shear walls at that floor level. The method of distribution considers either rigid or flexible floor diaphragms, while considering torsional effects when rigid diaphragms are selected. Output can be exported directly into the X-Brace Shear Wall design module or into an Excel spreadsheet.

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Website: www.appliedscienceint.com
Email: support@appliedscienceint.com

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Patented Technology

VertiClip®, VertiTrack®, BridgeClip®, BridgeBar®, BuckleBridge®, StiffClip®, DriftClip®, DriftTrak®, DriftCorner®, JamStud®, StiffWall®, SigmaStud®, TightStrap®, CircleTrak®, PrimeWall® and BackIt® are trademarked products, and are patented or patent-pending technologies of TSN. Patent numbers are: #5,904,023; #5,467,566; #5,906,080; #6,701,689; and #6,892,504. Numerous TSN design configurations are patented and/or patent pending and are protected under US and International patent laws.

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